World compendium of forestry and forest products research institutions

Répertoire mondial des institutions de recherche sur les forêts et les produits forestiers

Repertorio mundial de instituciones de investigación sobre bosques y productos forestales

by/par/por
H.A. Hilmi
FAO

FAO
FORESTRY
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ÉTUDE FAO
FORÊTS

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MONTES

71



FOOD
AND
AGRICULTURE
ORGANIZATION
OF THE
UNITED NATIONS
Rome, 1986

ORGANISATION
DES
NATIONS UNIES
POUR
L'ALIMENTATION
ET
L'AGRICULTURE
Rome, 1986

ORGANIZACION
DE LAS
NACIONES UNIDAS
PARA LA
AGRICULTURA
Y LA
ALIMENTACION
Roma, 1986

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M-30
ISBN 92-5-002431-2

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F O R E W O R D

A world directory of forest research institutions was first published by FAO in 1953 under the title "Research in Forestry and Forest Products". This was followed by FAO Forestry Occasional Paper No. 11 - "Forestry Research - A World Directory of Forest and Forest Products Research Institutions", published in 1963.

The present Compendium follows a different format from the earlier editions and is based on replies to questionnaires sent during the period 1983-84 to all known institutions engaged in forestry and forest products research. It lists 581 institutions in 104 countries. The institutions are arranged by FAO region and by countries in alphabetical order in each region.

The Compendium provides the following information about each institution:

- Name and address
- Status
- Staff
- Number of field research stations
- Principal fields of activity
- Special facilities
- Publications and services
- Cooperation
- Official working language.

The descriptions originally submitted by individual institutions were verified by them during the period January - March 1986. They remain essentially as such, except for editorial changes.

The Compendium is intended to serve as a reference document to anyone who requires information on a particular institution in a specific country. It should be used in conjunction with CARIS, FAO's Current Agricultural Research Information System, which includes forestry.

The Compendium is also intended to facilitate communication between research workers on matters of common interest and help in the dissemination of the results of research relevant to forestry and forest products.

A special feature of this publication is that it indicates existing areas of research cooperation between developed and developing countries in an attempt to promote, with the additional information provided, the strengthening of such cooperation.

Amendments and additions should be sent to the following address, using the form given in the Annex:

Chief, Forestry Education, Employment
and Institutions Branch
Forest Resources Division
Forestry Department
FAO
Via delle Terme di Caracalla
00100 Rome, Italy.

Requests for such amendments and additions will be kept on file and used in a subsequent revised version.

It is hoped that users will find the Compendium a useful source of relatively durable information on institutions of forestry research in the world today.

M.A. Flores Rodas
Assistant Director-General
Forestry Department

A V A N T - P R O P O S

En 1953, la FAO a publié un premier répertoire mondial des instituts de recherche forestière intitulé "Research in Forestry and Forest Products" (Recherche en matière de forêts et produits forestiers). En 1963, elle publiait le Document forestier occasionnel N° 11 "Forestry Research - A World Directory of Forest and Forest Products Research Institutions" (Recherche forestière - un Répertoire mondial des institutions de recherche sur les forêts et les produits forestiers).

Le présent répertoire diffère des précédentes publications, car il repose sur les réponses à des questionnaires envoyés en 1983-84 à tous les instituts connus effectuant des recherches sur les forêts et les produits forestiers. Il énumère 581 instituts dans 104 pays. Ces instituts sont regroupés par régions FAO et par pays, ceux-ci étant classés par ordre alphabétique dans chaque région.

Pour chaque institut, ce répertoire indique:

- nome et adresse
- statut
- effectifs
- nombre de stations de recherche sur le terrain
- principaux domaines d'activité
- installations spéciales
- publications et services
- domaines de coopération
- Langue officielle de travail.

Pendant la période janvier-mars 1986, chaque institut a vérifié les renseignements qu'il avait fournis initialement. Les informations ont été reproduites telles quelles, à l'exception de quelques modifications de forme.

Le présent répertoire constitue un ouvrage de référence pour quiconque souhaite obtenir des renseignements sur un institut particulier dans un pays donné. Il complète les informations sur les forêts contenues dans CARIS, Système FAO d'information sur les recherches agronomiques en cours.

Cet ouvrage vise également à faciliter les communications entre chercheurs sur les questions d'intérêt commun et à diffuser les résultats des recherches sur les forêts et les produits forestiers.

Une particularité de ce répertoire est d'indiquer les domaines de coopération entre pays développés et pays en développement en matière de recherche, en vue de renforcer cette collaboration grâce aux renseignements ainsi fournis.

Prière d'envoyer les modifications et additions à l'adresse suivante, en utilisant le formulaire joint en annexe:

Chef de la Sous-Division de l'enseignement,
de l'emploi et des institutions forestiers
Division des ressources forestières
Département des forêts
FAO
Via delle Terme di Caracalla
00100 Rome, Italie.

Les nouveaux renseignements envoyés seront classés et incorporés dans une prochaine version révisée.

Le présent répertoire devrait pouvoir constituer une source de renseignements utiles et relativement durables sur les instituts de recherche forestière existant actuellement dans le monde.

M.A. Flores Rodas
Sous-Directeur général
Département des forêts

P R O L O G O

La FAO publicó en 1953, por primera vez, un repertorio mundial de instituciones de investigación forestal, titulado "Research in Forestry and Forest Products" (Investigación sobre bosques y productos forestales). Posteriormente, en 1963, se publicó el Documento ocasional forestal de la FAO No. 11, titulado "Forestry Research - A World Directory of Forest and Forest Products Research Institutions" (Investigaciones forestales - Repertorio mundial de instituciones de investigación sobre bosques y productos forestales).

El presente Repertorio tiene una estructura diferente de la de documentos anteriores y se basa en las respuestas a los cuestionarios enviados durante el período 1983-84 a todas las instituciones conocidas que realizan investigaciones sobre bosques y productos forestales. Se hace referencia a 581 instituciones de 104 países. Las instituciones están agrupadas por regiones de la FAO y ordenadas alfabéticamente por países dentro de cada región.

El Repertorio proporciona la siguiente información sobre cada institución:

- Nombre y dirección
- Situación
- Personal
- Número de estaciones de campo
- Principales campos de actividad
- Instalaciones especiales
- Publicaciones y servicios
- Vínculos de colaboración
- Idioma oficial de trabajo.

Las descripciones remitidas originalmente por las distintas instituciones fueron verificadas por ellas mismas durante el período enero-marzo de 1986. Fundamentalmente, no se han modificado, excepto pequeños cambios editoriales.

El Repertorio tiene por finalidad servir de documento de referencia a quienes requieran información sobre una institución concreta en un país determinado. Deberá utilizarse junto con CARIS, el actual Sistema de la FAO de información sobre investigaciones agrícolas en curso, que comprende el sector forestal.

Otra finalidad del Repertorio es facilitar la comunicación entre investigadores sobre cuestiones de interés común y contribuir a la difusión de los resultados de las investigaciones sobre bosques y productos forestales.

Una característica especial de esta publicación es que indica los sectores de investigación en los que países desarrollados y países en desarrollo cooperan actualmente, en un intento de promover, con la información adicional que contiene, el fortalecimiento de tal cooperación.

Las enmiendas y adiciones deberán enviarse a la dirección siguiente, utilizando el formulario que figura en el anexo:

Jefe de la Subdirección de Enseñanza,
Empleo e Instituciones Forestales
Dirección de Recursos Forestales
Departamento de Montes
FAO
Via delle Terme di Caracalla
00100 Roma, Italia.

Las propuestas de enmiendas y adiciones se archivarán y serán utilizadas en una ulterior edición revisada.

Esperamos que los usuarios encuentren en este Repertorio una fuente útil de información relativamente duradera sobre las instituciones de investigación forestal existentes actualmente en el mundo.

M.A. Flores Rodas
Subdirector General
Departamento de Montes

ACKNOWLEDGEMENT

The Food and Agriculture Organization of the United Nations wishes to express its thanks to all contributors of information and to all those who, in one way or another, provided assistance to make this publication possible.

REMERCIEMENTS

L'Organisation des Nations Unies pour l'Alimentation et l'Agriculture tient à remercier toutes les personnes qui, soit en fournissant des renseignements, soit en donnant leur appui, ont permis la publication de ce document.

AGRADECIMIENTO

La Organización de las Naciones Unidas para la Agricultura y la Alimentación agradece la contribución de tantas personas que, a través de informaciones o asistencia de una u otra forma, han hecho posible esta publicación.

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AFRICA
AFRIQUE

ALGERIA

INSTITUT NATIONAL DE RECHERCHE FORESTIERE (INFR)
Forêt de Bainem
B.P. 37
Cheraga, Algérie

Tél. 81.97.90; 81.97.92
Télex: 53257 CNREF

Statut: Etablissement public à caractère administratif, sous la tutelle du Ministère de l'Hydraulique de l'Environnement et des Forêts, Kouba (Alger).

Effectifs: 2 docteurs d'Etat ès Sciences
11 chercheurs
20 chercheurs techniciens
10 techniciens

Stations de recherche sur le terrain: 5 et 20 arboreta.

Principaux domaines d'activité:

Ecologie forestière et environnement (groupements végétaux et production, phénologie des espèces forestières).
Sylviculture et aménagement forestier (traitement sylvicole des principales essences forestières).
Reboisement (choix des espèces, choix des techniques).
Lutte contre l'érosion (quanfication de l'érosion, méthodes de lutte anti-érosives, mise en valeur des terrains de montagne).
Lutte contre la désertification (mécanisme de l'érosion éolienne; technique de lutte contre l'ensablement, fixation biologiques et mécaniques; valorisation et amélioration du tapis végétal; brise-vent et rideaux biologiques).
Lutte contre les parasites et maladies des forêts (cycle biologique et lutte contre les principaux parasites).
Lutte contre les incendies (utilisation des retardants, prévision des risques d'incendie, inflammabilité des espèces).

Installations spéciales: Laboratoires centraux (pédologie, cartographie, etc.), un herbier et 20 arboreta installés à travers le pays.

Publications et services: L'Institut publie un Bulletin technique forestier (périodique). Nombreuses communications sur les sujets de développement forestier et l'application des résultats de recherche. Il maintient une bibliothèque.

Coopération: Convention sur les programmes intéressant les aspects forestiers avec les structures universitaires nationales à travers le pays. L'Institut maintient des liens de coopération avec l'ORSTOM, France, l'Université de Paris, etc. Il n'est pas membre de l'IUFRO.

Langues officielles de travail: arabe et français.

ALGERIA

DEPARTEMENT DE FORESTERIE
INSTITUT NATIONAL AGRONOMIQUE
rue Hassan Badi
El Harrach, Algérie

Tél. 76.19.87 à 89
Télex: 64 143

Statut: Institut supérieur dépendant du Ministère de l'Enseignement Supérieur.

Effectifs: 10 enseignants chercheurs
1 technicien supérieur
1 agent technique spécialisé
1 bibliothécaire
1 secrétaire

Stations sur le terrain: -

Principaux domaines d'activité:

Lutte contre la désertification et mise en valeur.
Productivité et amélioration forestière.
Protection de la faune et de la flore.
Technologie du bois - produits forestiers.

Installations spéciales: -

Publications et services: Un bulletin de foresterie et de conservation de la nature (semestriel) et Annales agronomiques. Il y a une bibliothèque de 1,700 livres et 30 revues spécialisées. Service de tirage et service audio-visuel.

Coopération: Le Département collabore avec l'INFRA, Alger, l'INRFT (Tunisie), l'INRA (France), l'Ecole forestière de Nancy (France), et l'Université de Louvain (Belgique). Il est membre de l'IUFRO.

Langues officielles de travail: arabe et français.

ANGOLA

INSTITUTO DE INVESTIGAÇÃO AGRONOMICA
(Institut de recherche agronomique)
C.P. 406
Huambo

Tél. 3277
Télégrammes: AGRONOMICOS

Statut: Institution publique indépendante, sous la tutelle du Ministère de l'Agriculture, Luanda. Créée en 1961, puis élargie en 1973, 1976 et 1983.

Effectifs: sans chercheurs professionnels (en ce qui concerne la branche forestière)
9 techniciens
5 administratifs|secrétaires

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Recherche sylvicole sur les essences de bois de feu, avec l'accent sur le choix et l'amélioration des espèces, la protection contre les insectes et les maladies, les méthodes et le rendement; préservation du bois, emploi des résidus et des dérivés du bois (cellulose).

Installations spéciales: une xylothèque et divers laboratoires (comprenant une installation pilote pour la préservation du bois et une autre pour les panneaux de particules, un laboratoire pour les études sur les caractéristiques physiques et mécaniques du bois, et un laboratoire pour les études de la cellulose et du papier).

Publications et services: La publication des résultats de la recherche doit encore être relancée. L'Institut possède une bibliothèque assez bien garnie, mais elle nécessite une meilleure organisation.

Coopération: Les contacts formels de collaboration avec d'autres instituts nationaux ou organisations internationales sont assez limités. L'Institut est membre de l'IUFRO.

Langue officielle de travail: portugais
Langue officielle de travail pour la correspondance internationale: français.

BENIN

UNITE DE RECHERCHE FORESTIERE
B.P. 06-707
Cotonou, République Populaire du Bénin

Téléphone: 330662
Adresse télégraphique:

Statut: Partie intégrante du Département de la Recherche Agronomique (B.P. 884, Cotonou), supervisée par le Ministère de l'Enseignement Supérieur et de la Recherche Scientifique, Cotonou. Créée en 1978 et renforcée en 1983.

Effectifs: 2 chercheurs (recherche et développement) avec doctorat ou diplôme equivalent
4 techniciens
2 administratif|secrétaire

Stations de recherche sur le terrain: L'Unité possède 2 sites d'expérimentation qui deviendront des stations de recherche dans l'avenir.

Principaux domaines d'activité:

Sylviculture des espèces de bois de feu, avec l'accent sur la sélection des espèces, les méthodes de plantations, les arbres à usage multiple, les systèmes de production, et l'enrichissement des jachères.

Recherche sur le taux d'accroissement et la densité.

Recherche sur la fabrication du charbon de bois et sur la préservation du bois.

Installations spéciales: Aucune installation spéciale, mais dispose d'équipements dendrométriques.

Publications et services: Les résultats de la recherche sont publiés sous forme de mémoires d'études préparés par les étudiants encadrés par l'Unité.

Coopération: L'Unité maintient des contacts de collaboration avec les autres unités du Département de la Recherche Agronomique (le Laboratoire d'agro-pédologie, le Laboratoire de défense des cultures, etc.); le FAC, France (soutien financier); le Centre Technique Forestier Tropical, Nogent-sur-Marne, France; et le Forestry Research Institute of Nigeria, Ibadan (échange d'informations techniques). Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français

BOTSWANA

FORESTRY ASSOCIATION OF BOTSWANA
P.O. Box 2088
Gaborone

Tel. 51660
Telex: 2435 BD

Status: Non-government organization.

Staff: 1 director
1 research coordinator
1 extension programme manager
5 others

Field stations: 6 sites for field experiments.

Principal fields of activity:

Species and provenance trials; nursery practice and techniques.
Education.
Extension.
Fuelwood provision.

Special facilities: -

Publications and services: The Association publishes annual reports and a newsletter twice a year. It provides information and advisory services on all forestry matters and recruits staff for NGO's. It has a small forestry library.

Cooperation: Maintains links with the Botswana National Institute of Research, the Forestry Unit of the Botswana Ministry of Agriculture, local authorities, other NGO's, and the public. The research programme is funded by IDRC. Donor agencies and volunteer programmes. The Association is not a member of IUFRO.

Official working language: English.

BOTSWANA

FORESTRY DEPARTMENT
LAND UTILISATION DIVISION
MINISTRY OF AGRICULTURE
Private Bag 003
Gaborone

Tel. 51171, Ext. 174
Cables: MINAGRIC
Telex: 2543 VET BD

Status: A public institution of the Department of Agricultural Field Services of the Ministry of Agriculture.

Staff: 1 professional
9 technicians

Field stations: 9 (one in each District)

Principal fields of activity:

Establishment of exotic plantations; forest protection; timber concessions (where applicable); and management of indigenous forests.

Special facilities: None

Publications and services: The Department's annual reports are incorporated in the Annual Report of the Department of Agricultural Field Services. The Forestry Department has access to the library of the Ministry of Agriculture which subscribes to a number of journals.

Cooperation: The Forestry Department maintains formal links with national organizations and other Ministries on issues pertaining to land use and rural afforestation. Exchange of information with other English-speaking countries. The Department is not a member of IUFRO.

Official working language: English.

BURKINA FASO

INSTITUT DE RECHERCHE EN BIOLOGIE
ET ECOLOGIE TROPICALE (IRBET)
B.P. 7047
Ouagadougou

Téléphone: 33 23 94; 33 46 36

Statut: Institut national de recherche forestière.

Effectifs: 10 chercheurs (7 nationaux et 3 expatriés)
6 techniciens

Stations de recherche sur le terrain: 4

Principaux domaines d'activité:

Structure et dynamique des formations naturelles (mécanismes de régénération et aménagement sylvo-pastoral).

Biologie et écologie des essences locales.

Sylviculture des essences locales et exotiques.

Agroforesterie.

Amélioration végétale par l'utilisation des relations symbiotiques (biotechnologie): essences locales et exotiques.

Amélioration végétale par la sélection génétique: essences locales et exotiques.

Technologie du bois.

Installations spéciales: microordinateur, installations pour bouturage sous chassis et équipements pour études de technologie du bois; un laboratoire de biotechnologie est en cours d'être équipé.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels du Comité de la Recherche forestière, monographies d'essences locales et autres publications techniques non périodiques. L'Institut dispose d'une bibliothèque.

Coopération: L'Institut maintient des contacts de collaboration avec le CIRAD-CTFT, ORSTOM, CILSS, UNSO, FAO, IUFRO, Unesco-MAB, ICSU (IUBS-RAB).

Langue officielle de travail: français.

BURUNDI

CELLULE DE RECHERCHE AGROFORESTIERE
B.P. 795
Bujumbura, République du Burundi

Téléphone: 3390
Adresse télégraphique:

Statut: Projet de recherche créé en 1984, financé par le Fonds d'Aide et de Coopération de la République française, placé sous le contrôle de l'Institut des Sciences Agronomiques du Burundi.

Effectifs: 8 chercheurs (recherche et développement)
4 techniciens

Stations de recherche sur le terrain: 16

Principaux domaines d'activité:

Sylviculture des essences de bois de feu.

Etude des essences susceptibles d'être utilisées dans le domaine de l'agroforesterie.

Etudes des possibilités d'enrichissement de la forêt naturelle en essences de valeur.

Recherche sur les méthodes culturales ou les dispositifs anti-érosifs adaptés à la conservation des sols.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels. Le projet possède une bibliothèque peu garnie.

Coopération: La Cellule de Recherche Agroforestière maintient des contacts avec le Centre Technique Forestier Tropical. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

BURUNDI

MISSION FORESTIERE CRÊTE ZAÏRE-NIL
B.P. 1190 Tél. 2.3109
Bujumbura, République du Burundi Télex: BDI 5044

Statut: Projet de recherche et d'appui technique créé en 1976, financé par le FAC, France, sous le contrôle du Département des Eaux et Forêts (B.P. 631, Bujumbura, tél. 2.3109).

Effectifs: 2 ingénieurs chercheurs (expatriés avec doctorat ou diplôme équivalent)
2 techniciens

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

Inventaire et aménagement forestiers: définition des méthodes pour les petits boisements des collectivités publiques; définition des tarifs de cubage; définition de modèles de plans de gestion; étude méthodologique sur l'utilisation de la télédétection dans l'évaluation des surfaces agro-forestières.

Économie forestière: analyse des paramètres de la filière bois (bois de feu et bois d'oeuvre).

Technologie des bois: recherche sur les définitions technologiques des bois introduits et indigènes.

Installations speciales: un herbier (250 échantillons) et une xylothèque (120 échantillons), sans responsable à plein temps. Matériel de photo-interprétation de dendrométrie, de topographie et de traitement informatique.

Publications et services: Les résultats de la recherche sont publiés sous forme de rapports annuels (jusqu'en 1984) et indépendants depuis 1985. Ces documents sont disponibles localement ou auprès du Service de documentation de la FAO, du Bureau de Sylviculture du Ministère français de la Coopération (20 rue Monsieur, 75007 Paris) et du Centre Technique Forestier Tropical (45bis, avenue de la Belle Gabrielle, 94130 Nogent-sur-Marne, France).
La MFCZN intègre le Service de l'inventaire et de l'aménagement forestier (B.P. 631, Bujumbura, Burundi).

Coopération: Suivie avec les Etats limitrophes (Zambie, Malawi, Tanzanie, Rwanda, Kenya), ainsi qu'avec des organismes bilatéraux (CTFT) ou multilatéraux (FAO, ICRAF). La Mission n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

CAMEROON

CENTRE NATIONAL DE DEVELOPPEMENT DES FORETS
B.P. 369
Yaoundé, République du Cameroun

Tel.
Cables:

Statut: Institution publique sous la tutelle du Ministère de l'Agriculture.

Effectifs: (informations pas disponibles)

Stations de recherche sur le terrain: (informations pas disponibles)

Principaux domaines d'activité:

Planification et aménagement des industries forestières.

Propriétés du bois, avec l'accent sur les propriétés physiques et mécaniques et la durabilité naturelle.

Extraction et transformation du bois, avec l'accent sur le séchage et les autres traitements (traitement à la vapeur, ébullition); et classement et défauts.

Préservation du bois: matériel et méthodes.

Utilisation du bois, avec l'accent sur le bois dans le bâtiment et les constructions mécaniques; et ameublement.

Pyrolyse et sous-produits.

Commercialisation et commerce, avec l'accent sur les marchés intérieurs et le commerce international.

Installations spéciales: (informations pas disponibles)

Publications et services: (informations pas disponibles)

Coopération: (informations pas disponibles)

Langue officielle de travail: français.

CAMEROON

CENTRE DE RECHERCHES FORESTIERES DE NKOLBISSON
B.P. 2102
Yaoundé, République du Cameroun Tel. 23 26 44

Statut: Institution publique faisant partie de l'Institut de Recherche Agronomique. Créée en 1980 pour remplacer le Centre de Recherches Forestières de Douala, lui-même remplaçant successivement l'Institut de Recherches Forestières et Piscicoles en 1975 et le Centre Technique Forestier Tropical (1964-1975). Le Centre est sous le contrôle du Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (B.P. 1457, Yaoundé, tél. 22 16 50).

Effectifs: 14 chercheurs professionnels (3 avec doctorat, 4 expatriés)
16 techniciens
49 administratifs/secrétaires

Stations de recherche sur le terrain: 2 antennes de recherche et 1 herbier.

Principaux domaines d'activité:

Recherche socio-économique, avec l'accent sur le comportement de la société humaine vis-à-vis de l'arbre et sur les aspects institutionnels et économiques.
Sylviculture des essences de bois de feu, avec l'accent sur le choix des espèces et les méthodes de propagation et de plantation; protection contre les incendies.
Essais d'agroforesterie.
Etudes sur le taux d'accroissement, les rotations, les méthodes de récolte et de transport.
Amélioration génétique des espèces.
Fabrication du charbon de bois.
Pédologie forestière dans la zone sahélienne.

Installations spéciales: un herbier (51.500 échantillons) et une xylothèque (800 échantillons) avec un responsable à plein temps. Les équipements de laboratoire comportent un chromatographe gazeux et un microscope électronique.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, dans la revue "Science et Technique" et dans les rapports de recherche, et ils sont diffusés à l'occasion des conférences, séminaires et colloques. Le Centre maintient une bibliothèque avec quelques centaines de volumes et 5 revues.

Coopération: Le Centre maintient des contacts formels avec les institutions nationales (le Département forestier de l'Ecole Nationale Supérieure Agronomique, le Centre National du Développement des Forêts, l'Office National de la Régénération des Forêts, et la Faculté des Sciences du Centre Universitaire de Dschang). Il maintient des contacts internationaux avec le Centre Technique Forestier Tropical, Nogent-sur-Marne, France (assistance technique, échange de graines et d'informations); l'Institut d'Ecologie Terrestre, Pennicuik, Royaume-Uni (projet d'amélioration des feuillus en préparation); la Banque Internationale pour la Reconstruction et le Développement, Washington, E.U. (financement). Le Centre est membre de l'IUFRO.

Langue officielle de travail: français.

CAMEROON

DEPARTEMENT DE FORESTERIE
ECOLE NATIONALE SUPERIEURE AGRONOMIQUE
Centre Universitaire de Dschang
B.P. 138
Yaoundé, République du Cameroun

Statut: Université sous la tutelle du Ministère de l'Education Nationale.

Effectifs: (informations pas disponibles)

Stations de recherche sur le terrain: (informations pas disponibles)

Principaux domaines d'activité:

Sylviculture, avec l'accent sur le choix d'espèces, essais de provenance et d'espèces, etc.

Biologie végétale, avec l'accent sur la flore.

Ecologie de la faune sauvage.

Poissons d'eau douce, avec l'accent sur la dynamique des populations.

Installations spéciales: (informations pas disponibles)

Publications et services: (informations pas disponibles)

Coopération: (informations pas disponibles)

Langue officielle de travail: français.

CONGO

CENTRE TECHNIQUE FORESTIER TROPICAL
(Centre du Congo)
B.P. 764 Téléphone: 940575
Pointe Noire, République Populaire du Congo Adresse télégraphique:

Statut: Institution publique dépendant de la Direction Générale de la Recherche Scientifique (B.P. 2499, Brazzaville, tél. 810607). Créée en 1958.

Effectifs: 12 chercheurs professionnels (9 expatriés)
9 administratifs/secrétaires

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Sylviculture des essences de bois de feu, avec l'accent sur le choix des espèces et provenance; amélioration forestière; méthodes de propagation; méthodes sylvicoles, rotations d'exploitation; taux d'accroissement et rendement.

Recherche sur la pâte à papier.

Introduction et sylviculture des espèces fixatrices d'azote à croissance rapide.

Introduction et sylviculture des espèces à moyenne révolution (Araucaria, Cedrella, etc.).

Amélioration génétique, bouturage et sylviculture d'espèces à longue révolution destinées, entre autres, à l'industrie du déroulage.

Installations spéciales: un herbier (300 échantillons d'espèces d'Afrique centrale), une xylothèque (300 échantillons) et un laboratoire de culture in vitro.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels. Le Centre possède une bibliothèque avec 3.000 volumes; 5 abbonnements à des revues techniques.

Coopération: Le Centre maintient des contacts étroits avec le Centre Technique Forestier Tropical, Nogent-sur-Marne, France (assistance technique); le Commonwealth Forestry Institute, Oxford, Royaume-Uni (échange d'informations); et l'Académie Nationale des Sciences, E.U. (financement d'un projet).

Langue officielle de travail: français.

COTE-D'IVOIRE

CENTRE TECHNIQUE FORESTIER TROPICAL
(CENTRE DE LA COTE-D'IVOIRE)
08 B.P. 33
Abidjan 08

Tél. 442858|9
Télégrammes: CETEFO ABIDJAN

Statut: Institution publique, affiliée au Centre Technical Forestier Tropical, Nogent-sur-Marne, France. Créée en 1962, sous le contrôle du Ministère de l'Education Nationale et de la Recherche Scientifique (Cité administrative, Tour B, B.P. V151, Abidjan, tél. 320688).

Effectifs: 9 chercheurs professionnels (dont 8 expatriés)
8 techniciens
8 administratifs|secrétaires

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Sylviculture des essences de bois de feu, avec l'accent sur le choix des espèces et provenance; méthodes de propagation; méthodes sylvicoles et systèmes de production; rotations; taux d'accroissement; méthodes de récolte et de transport.

Recherche et technologie industrielle: fabrication du charbon.

Aménagement des formations forestières naturelles.

Sylviculture des forêts naturelles.

Physiologie.

Phytopathologie, malherbologie, entomologie.

Technologie du bois.

Pisciculture.

Installations spéciales: une xylothèque (55 espèces) et un séchoir électrique à température et humidité programmables.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans les notes et rapports de recherche, et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Le Centre possède une bibliothèque avec 2000 ouvrages et 22 revues.

Coopération: Le Centre maintient des contacts de collaboration avec l'Office de la Recherche Scientifique et Technique d'Outre-mer; l'Institut de Recherches sur le Caoutchouc; l'Institut de Recherches pour les Huiles et Oléagineux (échange d'informations); le Centre Technique Forestier Tropical, Nogent-sur-Marne, France (assistance technique); le Commonwealth Forestry Institute, Oxford, Royaume-Uni; le DANIDA Seed Centre, Danemark; le Commonwealth Scientific and Industrial Research Organization, Australie (échange d'informations et de matériel végétal); la Communauté Economique Européenne; et la Banque Mondiale (financement). Le Centre est membre de l'IUFRO.

Langue officielle de travail: français

ETHIOPIA

FORESTRY RESEARCH CENTRE
NATURAL RESOURCES CONSERVATION AND DEVELOPMENT
Main Department
P.O. Box 1034
Addis Ababa

Tel. 182982; 18544/45
Cables: FAWCDA ADDIS

Status: A public institution under the Ministry of Agriculture, Addis Ababa.

Staff: 12 professionals (M.Sc. and B.Sc. in Forestry and related subjects)
25 rangers
30 technicians (with High School Certificate)
and over 100 supporting staff

Field stations: 30 research sites.

Principal fields of activity:

Education and training.
Silviculture (all aspects).
Forest mensuration and management, with emphasis on measurement of trees, stands and round timber, growth, increment and biological productivity (biomass).
Plant biology, with emphasis on silvicultural characters and habit, phenology; reproduction; taxonomy, nomenclature; flora, checklisting; and plant ecology.
Genetics and breeding, variation and evolution, with emphasis on gymnosperms, Pinus, angiosperms, Eucalyptus, and other tropical and subtropical hardwoods.
Dendrology, both gymnosperms and angiosperms.
Re-vegetation and reclamation.
Agrisilviculture.
Structure and properties of wood.
Timber extraction and conversion, with emphasis on seasoning; other treatment such as steaming and boiling; and grading and defects.
Wood preservation - materials and methods.
Veneers.
Soil and water conservation.

Special facilities: Veneer slicing machine, boilers, wood preservation equipment, germination cabinets, drying oven, cold room for seed storage (building in progress), and other auxiliary equipment. Two glasshouses are on order.

Publications and services: The Centre publishes two technical reports, annual reports, etc. There is a small library at its disposal.

Cooperation: The Centre collaborates with IDRC (Canada), SIDA (Sweden), the University of Berne (Switzerland), and with UNDP/FAO. It is not a member of IUFRO.

Official working language: English.

ETHIOPIA

WOOD UTILIZATION AND RESEARCH CENTRE (WUAR)
P.O. Box 2322
Addis Ababa
Tel.: 16-36-29; 16-72-50; 16-33-59

Status: A public institution under the Ministry of Agriculture, Addis Ababa.

Staff: 7 research professionals
11 technicians
64 other (incl. administrative personnel)

Field stations: None

Principal fields of activity:

Tests on the physical and mechanical properties of wood.
Tests on seasoning properties of wood.
Tests on working and machining properties of wood.
Species selection for veneer production and veneer trials.
Wood preservation (to be started).

Special facilities: A saw-doctoring unit for saw maintenance and for training of selected workers from Ethiopian sawmills.

Publications and services: Research results are published in annual reports and technical bulletins.

Cooperation: The Centre maintains formal cooperative links with the ECA, Addis Ababa, and with the Swedish Institute for Wood Technology Research (SIWTR). It is not a member of IUFRO.

Official working language: English.

GABON

INSTITUT DE RECHERCHES AGRONOMIQUES ET FORESTIERES (IRAF)
B.P. 2246
Libreville, République gabonaise
Téléphone: 732565

Statut: Institution publique créée en 1976 comme suite du Centre Technique Forestier Tropical (C.T.F.T.), sous le contrôle du Centre National de Recherches Scientifiques et Technologiques (CE.NA.RE.S.T.), Ministère de l'Enseignement Supérieur et de la Recherche Scientifique.

Effectifs: 9 chercheurs professionnels (2 avec doctorat ou diplôme équivalent, 1 expatrié)
2 techniciens
3 administratifs|secrétaires

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Ecologie forestière des régions tropicales humides (écosystème forestier tropical dense humide).

Biologie forestière.

Sylviculture tropicale.

Amélioration génétique des arbres forestiers tropicaux.

Agrosylviculture.

Botanique forestière.

Phytogéographie.

Phytopathologie.

Technologie et utilisation des bois tropicaux.

Installations spéciales: un herbier, une xylothèque avec 100 échantillons (sans responsable à plein temps) et un microscope stéréoscopique.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, les comptes rendus et les rapports de recherche. L'Institut possède une bibliothèque (500 volumes et 5 revues scientifiques et techniques).

Coopération: L'Institut maintient des contacts formels de collaboration avec les institutions nationales (l'Institut de Recherches en Ecologie Tropicale, l'Institut de Recherche Technologique, l'Institut de Pharmacopée et de Médecine Traditionnelle, et le Centre National Anti-Pollution). Il maintient des contacts internationaux avec le Centre Technique Forestier Tropical, Nogent-sur-Marne, France (assistance technique) et avec l'IUFRO, dont il est membre.

Langue officielle de travail: français.

GHANA

FOREST PRODUCTS RESEARCH INSTITUTE
(GHANA FORESTRY COMMISSION)
University P.O. Box 63
Kumasi

Tel. 5873; 5770; 5351
Cables: FORSEARCH

Status: Semi-autonomous public institution organized by the Ghana Council for Scientific and Industrial Research in 1964. Transferred to present premises in 1968. Supervised by the Ministry of Lands and Natural Resources (P.O. Box M 212, Accra).

Staff: 35 research professionals (10 Ph.D)
75 technicians
47 other (administrative/secretarial)

Field stations: 8

Principal fields of activity:

Silviculture, with emphasis on species selection, propagation and plantation methods, protection against insect diseases and fire, production systems, and growth and yield studies.

Wood technology research (utilization, pulping properties, charcoal-making, improved stoves, wood preservation and wood-based derivatives).

Socio-economic research on various aspects of fuelwood production, with emphasis on economic returns, the role of trees in farming systems, and interactions between human societies and forests and trees.

Special facilities: A herbarium (699 specimens) and a xylarium (872 specimens). The laboratory facilities include equipment for pulping research, ultraphot II, and wood impregnation.

Publications and services: Research results are published in annual reports, technical bulletins, technical notes and information bulletins, and are disseminated in research conferences and colloquia. The Institute maintains a library with microfiche readers.

Cooperation: The Institute maintains links with national institutions (the Crops Research Institute; the Cocoa Research Institute; the Soils Research Institute; the Animal Research Institute; the Building and Road Research Institute; and relevant faculties of the University of Science and Technology) and international organizations such as the World Association of Industrial and Technological Research Organizations, Canada; the International Research Group on Wood Preservation, Stockholm, Sweden; the Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia; the Forest Products Research Laboratory, Princes Risborough, United Kingdom; and the Institut für Holzbiologie und Holzschutz, Hamburg, Federal Republic of Germany. The Institute is a member of IUFRO.

Official working language: English.

KENYA

FORESTRY RESEARCH DEPARTMENT
KENYA AGRICULTURAL RESEARCH INSTITUTE (KARI)
P.O. Box 74
Kikuyu

Tel. 154-32220
Cables: MINTREE NAIROBI

Status: A public institution supervised by the National Council for Science and Technology (P.O. Box 30623, Nairobi, tel. 336172). Emerged from the defunct East African Agricultural and Forestry Research Organization in 1948. Subsequent reorganizations in 1962 and 1973. Present status from 1981.

Staff: 33 research professional (3 expatriates)
69 technicians
62 other (administrative/secretarial)

Field stations: 7

Principal fields of activity:

Silvicultural research: tree selection, propagation and cultivation methods, protection against insects, diseases and fire, production systems, dryland afforestation and management of indigenous forests; fuelwood species, inventory, growth and yield methods.

Technical research: processing of fuelwood and wood preservation, wood-based derivatives (pyrolysis).

Environmental research: impact of fuelwood production, training, education, forestry extension and wildlife research.

Agroforestry research: land-use systems and agrisilviculture.

Seed technology research and social forestry.

Special facilities: None. The laboratory facilities include special equipment for gas chromatography.

Publications and services: Research results are published in annual reports, technical notes and a quarterly journal (shared with the Agricultural Department). The Department has a library (about 80,000 scientific/technical volumes) with microfiche readers.

Cooperation: The Department maintains informal links with other national institutions and with international organizations. It is a member of IUFRO.

Official working language: English.

KENYA

DEPARTMENT OF FORESTRY
UNIVERSITY OF NAIROBI
P.O. Box 30197 Tel. 592037
Nairobi Cables: VARSITY

Status: University - independent institution established in 1977, under the supervision of the University Council (address as above).

Staff: 8 research and development professionals (5 PH.Ds, 2 expatriates)
8 technicians
5 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Teaching at the undergraduate level.

Research:

- Silvicultural research on fuelwood species: species selection, tree improvement, propagation and plantation methods, silvicultural treatments, and growth and yield studies.
- Technological research: calorific value, processing of fuelwood.
- Socio-economic research on fuelwood, with emphasis on knowledge of the natural environment by human societies, assessment of fuelwood potentials, the role of fuelwood plantation in rural development plans and economic returns.

Special facilities: A herbarium with a full-time curator; special equipment for gas chromatography.

Publications and services: Research results are published in annual reports and disseminated through research conferences, seminars and colloquia. Serial and periodic publications are to be started. The Department maintains a library with microfiche readers.

Cooperation: The Department maintains formal cooperative links with ICRAF, Nairobi, and with the following international institutions: the National Academy of Sciences, Washington, U.S.A.; the International Development Research Centre, Ottawa, Canada; the Ford Foundation; the Overseas Development Administration, London, U.K.; the Commonwealth Forestry Institute, Oxford, U.K.; and the Centro Agronómico Tropical de Investigación y Enseñanza, Turrialba, Costa Rica. The Department is not a member of IUFRO.

Official working language: English.

KENYA

FOREST DEPARTMENT
MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES
P.O. Box 30513 Tel. 22141|2
Nairobi Cables: FORESTRY NAIROBI

Status: Public institution under the Ministry of Environment and Natural Resources.

Staff: (information not available)

Field stations: (information not available)

Principal fields of activity:

Institutional aspects of forestry: all aspects apart from taxation and insurance.
Work safety.
Silviculture.
Forest mensuration and management.
Physical environment.
Fire prevention and control, prescribed burning.
Plant biology.
Genetics and breeding, variation and evolution, with emphasis on gymnosperms, Araucaria, Pinus, Eucalyptus and other tropical and sub-tropical hardwoods.
Mycology and pathology.
Insects and other invertebrates.
Range ecology and grazing practices.
Game and wildlife.
Freshwater fish.
Dendrology.
Protection forests, watershed management and soil conservation.
Other land use, nature conservation and arboriculture.
Institutional aspects of forest products and industry: all aspects apart from insurance and workers' safety.
Wood properties.
Timber extraction and conversion.
Damage to timber and timber protection.
Utilization of wood.
Veneers, composite boards, panels, improved wood.
Pulp industries and the chemical utilization of wood, with emphasis on pulp and paper manufacture, utilization of wood extractives, and destructive distillation and by-products.
Other uses of forest products such as wood wool and wood flour, utilization of waste wood and bark, and minor forest products.
Domestic markets and international trade.

Special facilities: (information not available)

Publications and services: (information not available)

Cooperation: (information not available)

Official working language: English.

KENYA

INTERNATIONAL COUNCIL FOR RESEARCH IN AGROFORESTRY (ICRAF)
P.O. Box 30677
Nairobi

Tel. 29867
Cables: ICRAF
Telex: 22048 Nairobi KE

Status: Autonomous non-profit International Research Council.

Staff: 36 research and development professionals (16 Ph.Ds)
4 technicians
45 other (administrative/secretarial)

Field Stations: 1

Principal fields of activity:

Identify agroforestry systems and their components.

Stimulate and support research to identify or improve plant species that are potential components of agroforestry systems.

Coordinate and systematise world knowledge about agroforestry, including methods of research.

Promote, and assist in the coordination of, agroforestry research for major ecological regions in the tropics and subtropics.

Facilitate the extension and implementation of research results in agroforestry.

Provide an information service in agroforestry research.

Encourage and support training in appropriate disciplines aimed at strengthening capabilities of national institutions engaged in agroforestry research.

Special facilities are available for holding seminars, workshops and training courses. These form an important part of ICRAF activities.

Publications and services: Research results and agroforestry systems are published in annual reports, working papers, books, the ICRAF newsletters (3-4 times a year) and the Agroforestry Journal (4 times a year), and are disseminated in research conferences and seminars. ICRAF maintains a library (2,900 books and monographs and 50 journal titles) with a microfiche reader.

Cooperation: ICRAF has several national, regional and international links with agricultural and forestry research and information centres such as I.I.T.A., ICRISAT, C.T.F.T., the Commonwealth Forestry Institute (U.K.), ISAR (Rwanda), ISABU (Burundi), KARI (Kenya), etc. It is a member of IUFRO.

Official working language: English
Official working languages for international correspondence: English, French and Spanish.

LESOTHO

FOREST RESEARCH SECTION
LESOTHO WOODLOT PROJECT
P.O. Box 774
100 Maseru

Tel. 322826
Cables: ABFOL

Status: Integral unit of the Lesotho Woodlot Project and under its supervision.

Staff: 1 research officer
1 forester
1 assistant forester

Field stations: None

Principal fields of activity:

Silvicultural research on fuelwood species: species and provenance trials, plantation methods including fertilizer requirements, control of insects and diseases, inventory of fuelwood resources, fuelwood rotations, growth and yield studies, nursery techniques and seedling nutrition.

Socio-economic research on fuelwood: perceived role of trees in the development of rural welfare, assessment of fuelwood requirements and potentials, the role of fuelwood plantations in integrated rural development programmes, and extension methods.

Special facilities: none

Publications and services: Research results are published in annual reports, project internal reports and quarterly reports, and are disseminated through research conferences, seminars and colloquia. The Section maintains a library of about 100 volumes; 5 subscriptions to journals.

Cooperation: The Forest Research Section maintains formal links with the Agricultural Research Unit of the Ministry of Agriculture with respect to tree species testing in the agricultural development area. It exchanges information with the Commonwealth Forestry Institute, Oxford, United Kingdom. It is not a member of IUFRO.

Official working language: English.

LIBERIA

FORESTRY DEVELOPMENT AUTHORITY (FDA)
P.O. Box 3010
Monrovia

Cables: FORDA

Status: Government forestry agency.

Staff: 48 professional/senior technical
10 expatriates
259 junior technical skilled/semi-skilled
54 other (administrative/clercial/accounting)

Field stations: 4

Principal fields of activity:

Institutional aspects of forestry, with emphasis on legislation, taxation, subsidies, loans, etc., and administration of the forestry sector, including planning.

Silviculture: all aspects except vegetative propagation.

Forest mensuration and management: all aspects except systems and units of measurements, including conversion tables, measurement instruments and apparatus, and measurement of trees, stands and round timber.

Influence of exotic plantations on soils, biomass, etc.

Agri-silviculture.

Nature conservation.

Institutional aspects of forest products and industry, with emphasis on legislation, taxation, subsidies, loans, etc., education and training, and planning and management of forest industries.

Utilization of wood, with emphasis on fuelwood, combustion systems and charcoal.

Domestic markets and international trade.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, research records, research leaflets and silvicultural notes. The FDA maintains a library with 1,230 scientific and technical volumes including journals; 10 subscriptions to international technical journals.

Cooperation: The FDA maintains formal cooperative links with GTZ (Agency for German Technical Cooperation); the University of Liberia's College of Agriculture and Forestry, and the Commonwealth Forestry Institute, Oxford, United Kingdom. It is a member of IUFRO.

Official working language: English.

MADAGASCAR

DEPARTEMENT DE RECHERCHES FORESTIERES ET PISCICOLES
B.P. 904
Antananarivo

Téléphone:
Adresse télégraphique:

Statut: Institution publique sous la tutelle du Centre National de la Recherche Appliquée au Développement Rural.

Effectifs: (informations pas disponibles)

Stations de recherche sur le terrain: (informations pas disponibles)

Principaux domaines d'activité:

Sylviculture: tous les aspects, à l'exception du machinisme forestier.
Dendrométrie et aménagement forestier, avec l'accent sur le cubage des arbres, et croissance, accroissement et productivité biologique (biomasse).
Environnement: tous les aspects, à l'exception de la pollution et dégâts causés par l'homme.
Biologie végétale: tous les aspects.
Génétique et amélioration; variation; évolution, avec l'accent sur gymnospermes; Araucaria; Pinus; angiospermes; Eucalyptus; Khega; Gmelina; et Polulus.
Mycologie, avec l'accent sur l'écologie des champignons; et mycorhizes et autres symbioses bactériennes et fongiques.
Insectes et autres invertébrés, avec l'accent sur l'écologie des invertébrés; insectes; acariens; et protection et lutte.
Poissons d'eau douce, avec l'accent sur biologie des poissons; et dynamique des populations.
Forêts de protection; aménagement des bassins versants; conservation des sols: tous les aspects.
Agro-sylviculture.
Propriétés du bois: tous les aspects.
Extraction et transformation du bois, avec l'accent sur le sciage; séchage et autres traitements (traitement à la vapeur, ébullition); et classement et défauts.
Dégâts causés au bois et protection du bois, avec l'accent sur l'attaque d'agents biologiques et d'agents naturels; et préservation du bois: matériel et méthodes.
Utilisation du bois, avec l'accent sur le bois dans le bâtiment et les constructions mécaniques.
Placages.
Panneaux faits de tranchages ou de sciages: contreplaqué, etc.
Industries de la pâte et utilisation chimique du bois, avec l'accent sur la fabrication de pâte et de papier; et les résines - colophaone et térébenthine.

Installations spéciales: (informations pas disponibles)

Publications et services: (informations pas disponibles)

Coopération: (informations pas disponibles)

Langue officielle de travail: français.

MALAWI

FORESTRY RESEARCH INSTITUTE OF MALAWI
Kufa Road
P.O. Box 270
Zomba

Tel. 29512
Cables: FRIM ZOMBA

Status: Public institution within the Forestry Department, Ministry of Forestry and Natural Resources, under the supervision of the National Forest Research Committee. Embryo of silvicultural research established in 1957, subsequently strengthened in 1966 by the addition of other fields of research. The present organization with headquarters in Zomba dates from 1975.

Staff: 13 research professionals (2 Ph.Ds, 4 expatriates)(5 posts currently vacant)
40 technicians
10 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Tree improvement and tree breeding: provenance trials, establishment of seed stands and seed orchards, seed selection, progeny trials.
Choice of species and provenance for fuelwood production.
Silviculture: site and species selection, espacement, thinning and pruning.
Mensuration: maintenance of growth plots, preparation of volume tables.
Protection: insect and fungal diseases and their control, mycorrhizae.
Soils: soil classification, fertilizer trials, hydrology.
Wood products: wood density and calorific value, naval stores, use of residues.
Environmental research: impact of fuelwood production, supply and use.
Socio-economic research: testing of incentives for the incorporation of trees in farming systems, and agroforestry.
Indigenous silviculture: rehabilitation of degraded woodlands, management of indigenous woodlands for fuelwood, silviculture of indigenous species, regeneration of cedar stands.
Ecology: animal damage in plantations; ecology of selected forest reserves.

Special facilities: A herbarium (50,000 specimens) with a full-time curator. Laboratory equipment includes 1 bomb calorimeter, 1 laminar flow bench and 1 CE 303 grating spectrophotometre, moisture extractor, air compressor and a neutron probe.

Publications and services: Research results are published in annual reports, newsletter, research records, research leaflets, FRIM reports and silvicultural notes. The library has 1,200 volumes and over 100 journals, citation and indexing services, and microfiche reading facilities, as well as facilities for inter-library cooperation.

Cooperation: The Institute maintains formal cooperative links with national institutions (Department of Agricultural Research; Tea Research Foundation of Central Africa, and the University of Malawi), and with international organizations (International Foundation for Science, Sweden; International Development Research Centre, Canada; Forestry Commission, U.K., and the Oxford Forestry Institute, Oxford, U.K.). The Institute is a member of IUFRO.

Official working language: English.

MALI

INSTITUT NATIONAL DE LA RECHERCHE ZOOTECHNIQUE,
FORESTIERE ET HYDROBIOLOGIQUE (INRZFH)
B.P. 1704
Bamako (Sotuba), République du Mali Tél. 22.64.28

Statut: Institution nationale relevant du Ministère chargé des Ressources Naturelles et de l'Elevage.

Effectifs: 20 ingénieurs des eaux et forêts
2 professeurs (enseignement supérieur)
8 ingénieurs des travaux forestiers
2 préposés des eaux et forêts (agents techniques)

Stations de recherche sur le terrain: 5

Principaux domaines d'activité:

Ecologie et environnement.
Technologie du bois, faune, hydrobiologie, pêche, et pisciculture.

Installations spéciales: Une scierie expérimentale avec un laboratoire d'analyse des propriétés physiques et mécaniques du bois, et équipements traditionnels pour la fabrication artisanale du papier.

Publications et services: Rapports annuels des centres et stations; rapports des Commissions techniques spécialisées (1 fois l'an); rapports du Comité scientifique et technique (tous les deux ans); et "Ressources Terrestres au Mali" (vol. I, II, III). Il existe une bibliothèque à la Direction, mais non fournie en documents. Ceux-ci se trouvent au niveau des Unités de recherche. Il y a une bibliothèque fournie dans une des stations.

Coopération: Avec la Direction Nationale des Eaux et Forêts, CIPEA-Mali, la Direction Nationale de l'Elevage, ODIK (Opération de Développement Intégré), Opération Aménagement et Productions Forestières, Direction Nationale des Industries, Institut d'Economie Rurale (IER), CILSS, et l'Institut du Sahel (INSAH). L'Institut n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

MAURITANIA

STATION DE RECHERCHE FORESTIERE DE NOUAKCHOTT
B.P. 170
Nouakchott

et

STATION DE RECHERCHE FORESTIERE DE BOUTILIMIT
B.P. 665
Nouakchott, République Islamique de Mauritanie Tél. 51943

Statut: La Station de recherche forestière de Nouakchott relève de la Direction de la Production de la Nature. Celle de Boutilimit est affectée aux recherches conduites par le Projet de stabilisation et fixation des dunes.

Effectifs: Nouakchott: 2 contrôleurs des Eaux et Forêts et une dizaine d'ouvriers.
Boutilimit: 1 contrôleur et 1 moniteur.

Stations de recherche sur le terrain: 2 sites

Principaux domaines d'activité:

Essais concernant l'introduction d'espèces locales et exotiques, les pratiques de pépinière et les travaux de préparation des sols. Irrigation. Dynamique éolienne. Transport. Techniques de lutte contre l'ensablement.

Installations spéciales: -

Publications et services: -

Coopération: -
Les stations ne sont pas membres de l'IUFRO.

Langue officielle de travail: français.

MAURITIUS

FORESTRY SERVICE
Botanical Garden Street
Curepipe

Tel. 86-4966
Cables:

Status: Public institution under the Ministry of Agriculture, Fisheries and Natural Resources, Curepipe.

Staff: 5 professionals

Field stations: None

Principal fields of activity:

Small-scale research activities on:

- Choice of species, species and provenance trials.
- Vegetative propagation.
- Multipurpose trees.
- Measurement of trees, stands and round timber.
- Flora, checklists.
- Plant ecology.
- Range ecology.
- Wildlife ecology and wildlife management techniques.

Special facilities: (information not available)

Publications and services: Maintains a library (100 scientific/technical volumes; 8 subscriptions to international technical journals.

Cooperation: (information not available) The Service is not a member of IUFRO.

Official working language: English.

MOROCCO

DEPARTEMENT DE FORESTERIE
INSTITUT AGRONOMIQUE ET VETERINAIRE HASSAN II
B.P. 6202
Rabat, Maroc

Statut: Institution d'enseignement et de recherche.

Effectifs: 6 chercheurs

Stations de recherche sur le terrain: 1 (qui fait partie de la Direction des Eaux et Forêts)

Principaux domaines d'activité:

Aménagement des forêts, reboisements.
Inventaire des essences forestières.
Technologie du bois.
Exploitation forestière et économie forestière.
Dendrochronologie.
Socio-économie (bois de feu et parcours sous-forêts).

Installations spéciales: -

Publications et services: Publications qui relèvent des Actes de l'Institut. D'autres des différents séminaires auxquels ont assisté les chercheurs du Département. Le Département maintient une bibliothèque spécifique.

Coopération: Le Département échange des informations avec différents pays, surtout avec la France, la Belgique et les Etats-Unis. Il est membre de l'IUFRO, de l'ICRAF, de l'INRA et de l'ENGREF.

Langue officielle de travail: français.

MOROCCO

DIVISION DE RECHERCHES FORESTIERES
DIRECTION DES EAUX ET FORETS ET DE LA CONSERVATION
DES SOLS
B.P. 763
Rabat (Agdal), Maroc
Tél. 07|729-28
Télex: 31 992

Statut: Une Division de la Direction des Eaux et Forêts et de la Conservation des Sols.

Effectifs: 20 ingénieurs-chercheurs

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Sylviculture; dendrométrie; amélioration génétique; entomologie forestière; pédologie; technologie du bois; mycorhization des plants forestiers (symbiose racinaire).

Installations spéciales: une xylothèque. Les équipements spéciaux de laboratoire comprennent 2 spectrophotomètres et 1 carbographe.

Publications et services: Les résultats de la recherche sont publiés dans la revue annuelle "Annales de la Recherche au Maroc" (23 tomes publiés). La Division dispose d'une bibliothèque avec 6.000 volumes; 56 abonnements à des revues techniques.

Coopération: La Division maintient des contacts formels avec les autres institutions nationales (collaboration technique et consultations avec la Fondation internationale pour la science et avec le Centre de recherche pour le développement international). Elle est membre de l'IUFRO.

Langues officielles de travail: arabe et français.
Langue officielle de travail pour la correspondance internationale: français.

MOZAMBIQUE

CENTRO DE EXPERIMENTAÇÃO FLORESTAL
(Forestry Research Centre)
INIA - Av. Forças Populares
C.P. 3658 - Mavalane
Maputo 8, Moçambique

Tel. 30091|4 Ramal 248
Cables: AGRONOMICO
Telex: 6-209 MAGRIMO

Status: A public institution under the Ministry of Agriculture, founded in 1984.

Staff: 2 research professionals (expatriates)
2 forestry engineers
6 technicians
2 (administrative)

Field stations: 2

Principal fields of activity:

Seed collection; species and provenance trials; nursery, plantation, and management of forest experiments; study of indigenous species; study of technological properties of native wood.

Main ecological zones in which research is conducted: dry tropics and mountainous zones.

Special facilities: A herbarium, a seed laboratory, and equipment for a technological laboratory.

Publications and services: Research results are published in annual and technical reports and are disseminated through research seminars. The library facilities are poor.

Cooperation: The Centre maintains contacts with the Eduardo Mondlane University, forestry enterprises, the National Institute of Agricultural Research (INIA); FAO|UNDP (Project MOZ|82|009), MONAP, and other foreign forestry research institutes. It is not member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

NIGER

DEPARTEMENT DES RECHERCHES FORESTIERES
INSTITUT NATIONAL DES RECHERCHES
AGRONOMIQUES DU NIGER
B.P. 225
Niamey, République du Niger

Tél. 228|72-27-14; 72-27-19
Télex: 5201 INRANI NIAMEY

Statut: Institution publique créée en 1963 sous le nom de Centre Technique Forestier Tropical. Devient Département des Recherches Forestières en 1975 avec la création de l'Institut National des Recherches Agronomiques du Niger. Sous le contrôle du Ministère de l'Agriculture, Niamey.

Effectifs: 4 chercheurs professionnels (2 expatriés)
4 techniciens
2 observateurs et 23 auxiliaires de terrain

Stations de recherche sur le terrain: 3 et 7 points d'appui

Principaux domaines d'activité:

Recherche socio-économique sur le bois de feu, avec l'accent sur le rôle des plantations dans les programmes intégrés de développement rural, le comportement humain vis-à-vis de l'arbre, et les aspects économiques des plantations de bois de feu.

Recherche sylvicole sur les espèces de bois de feu: sélection des espèces et provenance; méthodes de préparation du sol et de plantation; contrôle des insectes et des maladies; systèmes de production de bois de feu; taux d'accroissement; rendement; méthodes d'exploitation; sylviculture des essences locales.

Recherche technologique: charbon de bois; préservation.

Recherche sur la conservation du milieu; défense et restauration des sols.

Pêche et pisciculture.

Sélection des espèces et provenances des essences exotiques.

Sylviculture des essences locales.

Aménagement de terrain.

Installations spéciales: Un laboratoire des sols.

Publications et services: Fiches techniques de vulgarisation, rapports d'activités et rapports annuels. Le Département dispose d'une bibliothèque.

Coopération: Le Département maintient des contacts avec les projets forestiers nationaux, l'Institut du Sahel, et le CTFT (France). Il est membre de l'IUFRO.

Langue officielle de travail: français.

NIGER

INSTITUT NATIONAL DE RECHERCHES
AGRONOMIQUES DU NIGER
B.P. 429
Niamey, République du Niger

Téléphone: 722714; 723434
Adresse télégraphique:

Statut: Institution publique créée en 1975 pour se substituer aux organismes de recherche agricole étrangers travaillant au Niger. Sous le contrôle du Ministère de l'Enseignement Supérieur et de la Recherche, Niamey.

Effectifs: 23 chercheurs, dont 3 avec doctorat ou diplôme équivalent
54 techniciens
24 administratifs|secrétaires

Stations de recherche sur le terrain: 7

Principaux domaines d'activités:

Recherche sur la production et l'utilisation de bois de feu et d'énergie; aspects socio-économiques; sylviculture des essences de bois de feu et systèmes employés; rendement, récolte et caractéristiques; et recherche et technologie industrielle du bois de feu.

Recherche sur le milieu.

Installations spéciales: un herbier et une xylothèque, sans responsable à plein temps.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et sous forme de fiches techniques de vulgarisation, et sont diffusés à l'occasion des séminaires sur la recherche. L'Institut possède une bibliothèque avec 4000 volumes.

Coopération: L'Institut travaille en étroite collaboration avec tous les services de vulgarisation agricole et les organismes intéressés par le développement rural, tels que ONERSOL, l'Université, IRSH, etc., ainsi qu'avec les institutions de formation agricole (IPDR, ECE, la Faculté d'Agronomie). Il maintient des contacts internationaux avec AGRYMET, l'Institut du Sahel, ICRISAT et GERDAT.

Langue officielle de travail: français.

NIGERIA

DEPARTMENT OF AGRICULTURAL ENGINEERING
FACULTY OF TECHNOLOGY
UNIVERSITY OF IBADAN
Ibadan

Tel. 400551
Cables: UNIVERSITY IBADAN
Telex: 31128 NG

Status: University founded in 1948. The Department of Agricultural Engineering was founded in 1974. Under the supervision of the University Senate, University of Ibadan.

Staff: 10 research professionals (8 Ph.Ds, 1 expatriate)
3 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Technical research: calorific value, chemical content, processing and conversion of fuelwood, improved stove design, use of residues and alternative fuels.

Socio-economic research on fuelwood mainly with regard to fuelwood requirements, fuelwood potentials and social preferences for fuelwood.

Special facilities: None. Laboratory equipment includes a bomb calorimeter and various testing equipment.

Publications and services: Research results are published in various journals and disseminated through research conferences, seminars and colloquia. The Department shares the library with the University. Microfiche readers are available.

Cooperation: The Department maintains formal cooperative links with the Forest Research Institute of Nigeria, and non-formal links, through staff members, with F.P.R.S., U.S.A., and the Institute of Wood Science, United Kingdom. It is not a member of IUFRO.

Official working language: English.

NIGERIA

DEPARTMENT OF FOREST RESOURCES MANAGEMENT
UNIVERSITY OF IBADAN
Ibadan

Tel. 400550 (30 lines)
Cables: UNIBADAN
Telex: CAMPUS 31128 NG

Status: A University Department.

Staff: 14 academic staff (12 Ph.Ds)
3 technologists
5 (administrative)
22 others

Field stations: None

Principal fields of activity:

Socio-economic research on fuelwood, with emphasis on fuelwood plantations in integrated rural development programmes; economic aspects of fuelwood production; agroforestry.

Silviculture, including fuelwood species.

Technical research: density and calorific value; chemical content; conversion of fuelwood into energy; improved stove design; comparison with alternative fuels (technical aspects, economic efficiency).

Biometrics: population dynamics; yield; inventory.

Special facilities: A herbarium (300 specimens) with a full-time curator. Laboratory equipment includes an electron microscope and an atomic absorption spectrophotometer.

Publications and services: Research results are published in annual reports and in the Forestry Association of Nigeria journal (Nigerian Journal of Forestry), and are disseminated through research conferences and seminars. The Department maintains a library with over 3,000 volumes (the University Library has over 1 million volumes); 6 subscriptions to international journals. Microfiche readers are available.

Cooperation: The Department maintains cooperative links with national organizations (the Federal Department of Forestry; the Forest Research Institute of Nigeria; the Federal Ministry of Science and Technology) and with the International Development Research Centre, Ottawa, Canada. It is a member of IUFRO.

Official working language: English.

NIGERIA

FORESTRY RESEARCH INSTITUTE OF NIGERIA
Forestry Hill, Jericho, Government Reservation
P.M.B. 5054
Ibadan,

Tel. 022/414441
Cables: FORSEARCH
Telex: 31207

Status: A public institution under the control of the Federal Ministry of Science and Technology (9, Kofo Abayomi Road, Victoria Island, P.M.B. 12793, Lagos).

Staff: 78 research professionals (15 Ph.Ds)
156 technicians
33 other (administrative/secretarial)

Field stations: 9

Principal fields of activity:

Establishment and improvement of indigenous and exotic tree species.
Wood preservation, timber utilization, pulp and paper research.
Conservation of natural resources, environmental forestry and protection.
Training, extension and research liaison.

Special facilities: A herbarium (102,124 specimens) and a xylarium with full-time officers in charge. The laboratory equipment includes an electron microscope, as well as seasoning and wood preservation equipment which is also used to provide services to the public.

Publications and services: Research results are published in annual reports, in the Institute's Newsletters, in research and technical papers, and in extension bulletins. They are also disseminated through exhibitions, conferences, workshops and seminars. The herbarium is used by local and foreign scientists, while wood seasoning and preservation services are also provided to the public. Seedlings are also sold to the public. There is a fairly large specialized library with a collection mainly on forestry and related disciplines. It is the largest forestry library in the country.

Cooperation: The Institute maintains cooperative links with other agricultural research institutes under the Ministry of Science and Technology, State Forestry Departments. It also maintains links with international bodies such as the International Research Development Centre, Ottawa, Canada, and the Commonwealth Forestry Institute, Oxford, U.K. It is a member of IUFRO for exchange of information.

Official working language: English.

NIGERIA

DEPARTMENT OF GEOGRAPHY
BAYERO UNIVERSITY
P.M.B. 3011
Kano

Tel. 2018/13
Cables: UNIBAYERO

Status: University under the Federal Ministry of Education. Main function: teaching. Founded in 1974.

Staff: 1 research professional
2 technicians

Field stations: None

Principal fields of activity:

Teaching and research in geography.

Forestry interests include:

Socio-economic research on fuelwood: the role of trees in development and rural welfare; assessment of fuelwood potentials and fuelwood requirements; geographical sources of fuelwood.

Environmental research: impact of fuelwood production, supply and use on the environment.

Special facilities: None. The laboratory equipment includes a bomb calorimeter and an atomic absorption spectroscope.

Publications and services: Research results are published in annual reports. The Department shares the library with the University.

Cooperation: The Department maintains formal cooperative links with the United Nations University which funds its socio-economic research on fuelwood production and use. It is not a member of IUFRO.

Official working language: English.

NIGERIA

KAINJI LAKE RESEARCH INSTITUTE
P.M.B. 666
New Bussa, Kwara State

Telephone:
Cables:

Status: Public institution under the Ministry of Science and Technology.

Staff: (information not available)

Field stations: None

Principal fields of activity:

Institutional aspects of forestry, with emphasis on legislation, education and training, and human relations: publicity, extension.

Forest mensuration and management, with emphasis on management plans and planning, surveying and mapping, remote sensing, and vegetation and soil surveys.

Physical environment: all aspects related to climate, soil, water and forest.

Effects of fire and prescribed burning.

Plant biology: all aspects.

Invertebrate ecoloyy.

Range ecology.

Wildlife ecology.

Freshwater fish biology.

Limnology.

Watershed management and soil conservation.

Special facilities: (information not available)

Publications and services: (information not available)

Cooperation: (information not available)

Official working language: English.

NIGERIA

DEPARTMENT OF FORESTRY AND FISHERIES
FACULTY OF AGRICULTURE
UNIVERSITY OF SOKOTO
P.M.B. 2346
Sokoto

Status: The University was started by the Federal Government in 1974 and under the supervision of the National Universities Commission and the Federal Ministry of Education.

Staff: 5 research professionals (2 Ph.Ds)
2 technicians
3 others

Field Stations: None

Principal fields of activity:

Arid zone silviculture, agroforestry, environmental forestry, socio-economic and and technical studies.

Properties of indigenous savanna species, fuelwood conversion to energy; natural durability of species.

Special facilities: A herbarium is being developed. Laboratory facilities for soil analysis and simple determination of physical properties of wood, and chemical analysis.

Publications and services: Research results are published in annual reports, proceedings of research conferences and seminars, in the National Forestry Association journal, and in the Nigerian Journal of Forestry. The Department has no library, but the central university of the University maintains a fast-growing collection of scientific and technical volumes.

Cooperation: Cooperative links are maintained with other institutions in the country, as well as with research organizations both national and international. The Department is not a member of IUFRO.

Official working language: English.

SENEGAL

CENTRE NATIONAL DE RECHERCHES FORESTIERES (CNRF)
INSTITUT SENEGALAIS DE RECHERCHES AGRICOLES (ISRA)
Parc Forestier de Hann
B.P. 2312
Dakar, République du Sénégal Téléphone: 21-32-19

Statut: Institution publique créée en 1965 comme Centre Technique Forestier Tropical - Sénégal, successivement reorganisée en 1975 avec statut actuel et renforcée en 1983 par l'augmentation du nombre de chercheurs. L'Institut est maintenant rattaché au Ministère du Développement Rural (Building administratif, Tél. 23.10.88).

Effectifs: 20 chercheurs (avec doctorat ou diplôme équivalent, comprenant 15 nationaux et 5 expatriés)
10 techniciens
11 administratifs|secrétaires

Stations de recherche sur le terrain: 5

Principaux domaines d'activité:

Recherche socio-économique sur les aspects économiques de la production de bois de feu.

Sylviculture des espèces de bois de feu: sélection des espèces et provenance; méthodes de préparation du terrain et de plantations; protection contre les insectes, les maladies et les feux; arbres à utilisation multiple; systèmes de production; plantation sous irrigation.

Bilan hydrique des peuplements d'Eucalyptus et évolution des sols sous Eucalyptus.

Aménagement et enrichissement des forêts naturelles des domaines sahélien, soudanien et guinéen.

Etude des applications symbiotiques.

Recherche sur les gommiers et les pâturages d'appoint, et sur les plantes à latex et à caoutchouc.

Agro-sylviculture: étude de la mangrove.

Etude du reboisement des terres salées.

Recherche sur les produits forestiers.

Recherche sur le milieu: évolution de l'écosystème sahélien.

Installations spéciales: Une serre, un système de nébulisation artificielle, un laboratoire de graines, et une chambre froide. Un herbier et une xylothèque sont en train d'être installés.

(Sénégal, suite)

(CNRF, Dakar)

Les installations de laboratoire comprennent:

- une cellule de technologie (prévue pour 1984) avec des ateliers de menuiserie et un laboratoire comprenant 1 microscope à vision stéréoscopique, 1 balance de précision 1|1000 gs., 1 étuve, 1 volumenomètre, 1 micromètre au 1|1000 mm., 1 banc de collage, etc.
- une cellule de préservation du bois (prévue pour 1984), avec 1 étuve à température et humidité variables, 1 réfrigérateur, 1 balance, 1 cuve de trempage, et 1 appareil d'injection sous vide et pression;
- un laboratoire et une cellule énergie (prévu pour 1984) avec 1 calorimètre adiasatique, 1 bombe calorimétrique, des accessoires pour four à carboniser, récupération de pyraligneux et gaz, 1 compteur à gaz, 1 four à moufle, 1 broyeur, etc.;
- deux sondes à neutrons (éventuellement une troisième en 1984) et une presse à membrane pour mesurer l'évapo-transpiration;
- un laboratoire de microbiologie (le Centre dispose d'une unité de multiplication des souches de Rhizobium et de Mycorrhize);
- un laboratoire de multiplication végétative et culture de tissus avec hotte à flux laminaire, une chambre à multiplication, une serre, etc.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels ou sous forme d'articles et de rapports internes, de fiches techniques ou de cahiers scientifiques, et sont diffusés à l'occasion des conférences sur la recherche. Le Centre maintient une bibliothèque avec 2.000 volumes et 10 revues.

Coopération: Le Centre maintient des contacts avec les organismes divers au sein de l'Institut Sénégalais de Recherches Agricoles; l'Office de la Recherche Scientifique et Technique d'Outre-Mer, Dakar; l'Université de Dakar; le Centre d'Etudes et de Recherches sur les Energies Renouvelables; l'IFAN; et l'Institut de Technologie Alimentaire. Il maintient des contacts formels avec les organismes internationaux suivants: la Coopération française; le Fonds d'Aide et de Coopération; l'International Development Research Centre, Ottawa, Canada; l'USAID; la Fédération Internationale de Commerce des Semences, Pays-Bas et la FAO (sources actuelles de financement); l'Académie Nationale des Sciences, E.U. et Grande-Bretagne (sources éventuelles de financement); ainsi que avec les universités françaises et américaines; les pays francophones sahéliens; le Centre Technique Forestier Tropical, Nogent-sur-Marne, France; et les centres de recherche en Australie et en Inde (échange d'informations scientifiques). Le Centre est membre de l'IUFRO.

Langue officielle de travail: français.

SENEGAL

INSTITUT DES SCIENCES DE L'ENVIRONNEMENT (ISE)
FACULTE DES SCIENCES
UNIVERSITE DE DAKAR
Projet ISE, c|o Ambassade de Belgique
B.P. 524
Dakar, République du Sénégal

Tél. 21.40.27; 21.25.24
Télex: 265 Ambabel SG

Statut: Institution universitaire, créée en 1978 par un projet belgo-sénégalais.

Effectifs: 8 responsables de la recherche et du développement (5 avec doctorat ou diplôme équivalent et 4 expatriés)
2 techniciens
1 administratif|secrétaire
1 chauffeur

Zones de recherche: le Lac de Guiers, la Casamance et Sine Saloum.

Principaux domaines d'activité:

Recherche socio-économique: comportement humain vis-à-vis de l'arbre; évaluation des besoins et des disponibilités; rôle des plantations dans les programmes intégrés de développement rural; aspects économiques de la production du bois de feu; approche intégrée de la région du Lac de Guiers, zone sahélienne.

Sylviculture des essences de bois de feu, conservation et développement; fonctionnement des écosystèmes forestiers; agro-foresterie; sylviculture mixte; analyse des projets de reboisement; inventaire des ressources de bois de feu.

Recherche sur la technologie: charbon de bois; utilisation des produits ligneux; comparaison avec d'autres combustibles (enquête sur le bois, charbon de bois et substituts).

Recherche sur le milieu: impact de la production du bois de feu sur l'environnement; conservation des écosystèmes.

Analyse de l'écosystème mangrove de l'estuaire du Saloum.

Installations spéciales: une xylothèque avec 50 échantillons des espèces du domaine soudano-guinéen.

Publications et services: Les résultats de la recherche sont publiés dans les Actes de colloques (1 publication par an) et diffusés à l'occasion des conférences, séminaires et colloques sur la recherche. L'Institut maintient une bibliothèque (600 volumes et 30 revues). Publication Unesco|MAB|EPVEC - Breda, Dakar 1985.

Coopération: L'Institut maintient des contacts formels de collaboration avec les institutions nationales (la Direction des Eaux et Forêts, le Centre National des Recherches Forestières, l'Institut Sénégalais de Recherche Agricole, le Comité National Unesco|MAB). Il maintient des contacts internationaux avec l'Université Laval, Québec, Canada; le Centre des Recherches Forestières des Laurentides, Québec, Canada (échange d'informations); Unesco|MAB; le Programme des Nations Unies pour l'Environnement; et FAO (échange d'informations et assistance technique). L'ISE n'est pas membre de l'IUFRO.

Langue officielle de travail: français

SIERRA LEONE

FOREST RESEARCH BRANCH, BAMBAWO
c|o DIVISIONAL FOREST OFFICE
MINISTRY OF AGRICULTURE AND NATURAL RESOURCES
Kenema

Tel. 024-345
Cables: MINAGRIC

Status: An integral unit of the State Forest Service - the Forestry Division of the Ministry of Agriculture and Natural Resources, supervised by the Chief Conservator of Forests.

Staff: 1 research professional
6 technicians
2 other (administrative|secretarial)

Field stations: 3

Principal fields of activity:

Choice of species; provenance research; growth and yield studies; botanical investigations; nursery research.

Special facilities: A small reference herbarium for the Forestry Division.

Publications and services: Research results are published in annual reports, research notes (irregular issue) and in scientific journals, and are disseminated through research conferences and seminars. The Branch uses the Forestry Division library at the Head Office in Freetown.

Cooperation: The Forest Research Branch has cooperative links with the Forest Services in other countries, and with international organizations such as the Commonwealth Forestry Institute, Oxford, United Kingdom, and FAO. It is a member of IUFRO.

Official working language: English.

SWAZILAND

MALKERNS AGRICULTURAL RESEARCH STATION
P.O. Box 4 Tel. 83038
Malkerns Cables:

Status: Established in 1964 as an Agricultural Research Centre under the Ministry of Agriculture and Cooperation (P.O. Box 162, Mbanane). In 1980, a Forestry Research Section was attached to carry out research for the Usutu Pulp Company.

Staff: (information not available)

Field stations: 1

Principal fields of activity:

Agricultural crops.

Special facilities: A herbarium with 3,957 specimens.

Publications and services: n|a

Cooperation: n|a. The Research Station is not a member of IUFRO.

Official working language: English.

TANZANIA

SERENGETI WILDLIFE RESEARCH INSTITUTE
P.O. Box 661 Tel.
Arusha Cables:

Status: Public institution forming an integral part of the Tanzania National Parks. Established in 1980.

Staff: 10 research and development professionals (1 Ph.D)
75 technicians
5 other (administrative/secretarial)

Field stations: 3

Principal fields of activity:

Ecological monitoring.

Feeding preferences in Selons National Park.

Behavioural research on chimpanzees.

Special facilities: A herbarium with 5,000 specimens.

Publications and services: Research results have been published so far only in annual reports.

Cooperation: No cooperative links as yet. The Institute is not a member of IUFRO.

Official working language: English.

TANZANIA

INSTITUTE OF RESOURCE ASSESSMENT
UNIVERSITY OF DAR-ES-SALAAM
P.O. Box 35097
Dar-es-Salaam

Cables: UNIVERSITY
Telex: 41561 UNIZIP TZ

Status: A semi-autonomous research unit of the University of Dar-es-Salaam which started in 1967 as "Bureau of Resource Assessment and Land Use Planning (BRALUP)" and which was renamed "Institute of Resource Assessment" in 1982. The Institute is located within the main campus of the University of Dar-es-Salaam.

Staff: 17 researchers (4 Ph.Ds, 2 expatriates)
18 other (administrative and supporting staff)

Field stations: None

Principal fields of activity:

Four main areas of research:

Environment/natural resources.
Water development.
Population and human settlement/regional planning.
Agriculture, food and nutrition.

Special facilities: Remote sensing laboratory, photo-processing laboratory, and computing facilities, as well as a printing unit.

Publications and services: Research results are published as monographs and in research reports and research papers, and are disseminated through seminars and workshops. The Institute has a small references library, but has access to the main library of the University.

Cooperation: The Institute collaborates with other university departments undertaking research, with government ministries, and with public institutions. It has also been doing consultancy work for a number of clients, including some international aid agencies. It is not a member of IUFRO.

Official working language: English.

TANZANIA

TANZANIA FORESTRY RESEARCH INSTITUTE
P.O. Box 30072 Tel. 2390
Kibaha Cables:

Status: Independent public institution, under the supervision of the National Scientific Research Council (P.O. Box 4302, Dar es-Salaam, tel. 25802).

Staff: 22 research professionals (1 Ph.D), including staff at other stations of the Institute
66 technicians
34 other (administrative/secretarial)

Field stations: 8

Principal fields of activity:

Silviculture and management of natural forests.

Silviculture: choice of species and provenances; seed research; ground preparation and silvicultural methods; control of insects, diseases and fire; fuelwood production systems; growth and yield studies.

Technology research: conversion of fuelwood into energy; improved stove design; charcoal-making; wood preservation; timber engineering and mechanics; timber seasoning.

Environmental research: impact of fuelwood production, supply and use on the environment.

Socio-economic research on fuelwood, with main emphasis on human attitudes towards forests and trees; assessment of fuelwood requirements and fuelwood potentials; the role of fuelwood plantations in integrated rural development programmes; institutional aspects and extension methods.

Special facilities: A herbarium (45,000 speciments) and a xylarium (220 wood species of Tanzania, Kenya, Uganda, South Africa, Ethiopia and England).

Publications and services: Research results are published in annual reports and technical and research notes (6 issues per year) and are disseminated in research conferences and seminars.

Cooperation: The Institute maintains formal links with the University of Dar es-Salaam; the Traditional Medicine Research Unit; the Tanzanian Agricultural Research Organization; and the Tanzanian Livestock Research Organization. Formal links are also maintained with the International Development Research Centre, Ottawa, Canada; the Commonwealth Forestry Institute, Oxford, U.K.; the Swedish Agency for Research Cooperation with Developing Countries; Stockholm, Sweden; and the Danish International Development Agency. The Institute is a member of IUFRO.

Official working language: English.

TANZANIA

FACULTY OF FORESTRY
SOKOINE UNIVERSITY OF AGRICULTURE
P.O. Box 3009
Morogoro

Tel. 056/3511
Cables: UNIAGRIC
Telex: UNIVMO TZ 55308

Status: A fully-fledged university.

Staff: 25 academic
20 non-academic

Field stations: 2

Principal fields of activity:

Teaching at undergraduate and post-graduate levels.

Socio-economic research on fuelwood: social preferences for fuelwood; assessment of fuelwood potentials; extension methods.

Silviculture: seed research; agroforestry research; nursery and establishment techniques; control of pests and diseases; inventory of fuelwood resources; growth and yield studies.

Industrial and technological research: calorific value of fuelwood; improved stove design; fuelwood conversion; wood preservation; use of residues.

Environmental research: impact of fuelwood production, supply and use on the environment.

Agroforestry systems: combination of tree species with various food crops at a variety of espacements.

Watershed management.

Forest measurements.

Special facilities: A herbarium, a growth chamber, a wood collection, an inoculation chamber, furnace, microtome, a carpentry workshop and a mapping unit. Laboratory facilities include a gas chromatograph and a bomb calorimeter.

Publication and services: Research results are published in the Division of Forestry Records (6 issues per year) and are disseminated through research conferences and seminars. The Division maintains a library (several thousand volumes, 18 forestry journals) with microfiche readers.

Cooperation: The Division maintains formal cooperative links with national institutions and with international organizations such as the International Development Research Centre, Ottawa, Canada; the National Academy of Sciences, U.S.A.; the Norwegian International Development Agency, and with IUFRO (member).

Official working language: English.

TUNISIA

INSTITUT NATIONAL DE RECHERCHES FORESTIERES
B.P. 2
2048 Ariana, République tunisienne

Tél. 230 014
Télégrammes: TUNIREB

Statut: Institution publique créée en 1967, renforcée en 1971 grâce au Projet FAO|PNUD| TUN|540: Renforcement et développement de l'Institut National de Recherches Forestières. L'organisation actuelle date de 1979 (Décret N° 79-765). Sous le contrôle du Ministère de l'Agriculture, Direction de l'Enseignement, de la Recherche et de la Vulgarisation (30, rue Alain Savary, Tunis, tél. 288315).

Effectifs: 16 chercheurs professionnels
23 techniciens
7 administratifs

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Recherche socio-économique sur le bois de feu: comportement humain vis-à-vis de l'arbre; évaluation des besoins et des potentialités du bois de feu; aspects économiques de la production du bois de feu.

Sylviculture des essences de bois de feu: sélection des espèces; méthodes de préparation du terrain et de plantation; arbres à utilisation multiple; taux d'accroissement et rendement.

Recherche sur le milieu: amélioration des techniques d'aménagement et d'exploitation sylvo-pastorales et alfatières; amélioration des techniques de conservation des eaux et du sol en fonction des méthodes d'exploitation pastorale et forestière; recherches et études dans le but de protéger et de développer les animaux sauvages présentant un intérêt cynégétique ou touristique.

Installations spéciales: un herbier (3.000 échantillons d'espèces sud-méditerranéennes) et une xylothèque (35 échantillons). Les équipements spéciaux de laboratoire comportent un spectrophotomètre. Acquisition du matériel nécessaire pour l'étude du bilan hydrique (chambre à pression, psychromètre, poromètre, osimomètre, étuve, balance).

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, les notes de recherches, les notes techniques, les bulletins d'information (1 à 3 numéros par an) et les annales, et sont diffusés à l'occasion des séminaires sur la recherche. L'Institut possède une bibliothèque avec 5.000 volumes; 100 abonnements à des revues techniques internationales.

Coopération: L'Institut maintient des contacts formels de collaboration avec les instituts de recherche (l'Institut National de la Recherche Agronomique de Tunisie, le CRGR, l'Institut de Recherche Agronomique) et avec les institutions d'enseignement (ISP, Institut National d'Assistance Technique). Il maintient des contacts internationaux avec le Centre National de la Recherche Scientifique en France, et avec l'International Development Research Centre, Ottawa, Canada. L'Institut est membre de l'IUFRO.

Langues officielles de travail: arabe et français
Langue officielle de travail pour la correspondance internationale: français.

TUNISIA

INSTITUT DES REGIONS ARIDES
Route de Djonf - km. 22
4119 Médenine, République tunisienne

Tél. 05|40.435; 40.661
Télégrammes: IRA MEDENINE

Statut: Etablissement public.

Effectifs: 22 chercheurs
20 techniciens
100 cadres administratifs

Stations de recherche sur le terrain: 15

Principaux domaines d'activité:

Etudes des phénomènes d'érosion éolienne et hydrique et lutte contre la désertification.
Aménagement et développement des parcours en zones arides.
Amélioration de la production animale dans les zones arides.
Etudes des projets de développement intégré.
Intensification des cultures dans les oasis, etc.

Installations spéciales: Laboratoire d'analyses des eaux et des sols; laboratoire d'analyse des végétaux et aliments du bétail; laboratoire de cartographie; laboratoire d'analyse des données. Cinq stations bioclimatiques. Chambre de culture en conditions contrôlées. Tunnel aérodynamique.

Publications et services: Bulletins de l'IRA, cahiers de l'IRA, thèses des chercheurs de l'IRA, rapports de projets et d'activités. Il y a une bibliothèque générale équipée en manuels de base et divers documents scientifiques, revues et thèses.

Coopération: L'Institut collabore avec des institutions de recherche en Suède, ainsi qu'avec le PNUE, le PNUD, le CRDI, la CEE, l'IAO, la FAO, ACSAD, ICARDA, ORSTOM, Unesco, ALECSO, CV, CGDR, etc.

Langues officielles de travail: arabe et français
Langues officielles de travail pour la correspondance internationale: arabe et français.

TUNISIA

INSTITUT SYLVO-PASTORAL
Tabarka, République tunisienne

Téléphone:
Adresse télégraphique:

Statut: Institution publique sous la tutelle du Ministère de l'Agriculture.

Effectifs: (informations pas disponibles)

Stations de recherche sur le terrain: (informations pas disponibles)

Principaux domaines d'activité:

Aspects institutionnels de l'activité forestière, avec l'accent sur la législation; et relations humaines: publicité, vulgarisation, etc.

Sylviculture.

Dendrométrie.

Environnement.

Incendies.

Biologie végétale: tous les aspects, à l'exception de la chimie et de la flore; listes de contrôle.

Génétique et amélioration; variation; évolution, avec l'accent sur les gymnospermes; Pinus; Eucalyptus; Populus; et Quercus.

Ecologie et types de terrains de parcours; pratiques de pâturage.

Ecologie de la faune sauvage; techniques d'aménagement de la faune sauvage.

Dendrologie: gymnospermes; angiospermes.

Forêts de protection; aménagement des bassins versants; conservation des sols.

Aspects institutionnels de l'industrie et des produits forestiers.

Propriétés du bois: tous les aspects, à l'exception de la chimie.

Extraction et transformation du bois, avec l'accent sur le classement et les défauts.

Dégâts causés au bois et protection du bois.

Utilisation du bois, avec l'accent sur le bois de feu, les systèmes de combustion, et le charbon de bois.

Placages; panneaux composites, panneaux.

Produits forestiers secondaires.

Installations spéciales: (informations pas disponibles)

Publications et services: (informations pas disponibles)

Coopération: (informations pas disponibles)

Langue officielle de travail: français.

UGANDA

NAKAWA FOREST RESEARCH CENTRE
Spring Road
P.O. Box 1752
Kampala

Tel. 56261/2
Cables:

Status: A public institution which became an integrated research institute in 1978.

Staff: (information not available)

Field stations: None

Principal fields of activity:

Silviculture: choice of species and provenance; ground preparation and silvicultural methods; multi-purpose trees; fuelwood production systems; fuelwood rotations; growth and yield studies.

Harvesting and transport methods.

Technological research: charcoal research; wood utilization.

Environmental research: impact of fuelwood production, supply and use on the environment.

Socio-economic research on fuelwood, with main emphasis on the human attitudes towards trees and forests; assessment of fuelwood requirements and fuelwood potentials; the role of fuelwood plantation in integrated rural development programmes; economic aspects of fuelwood production.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and technical notes and disseminated through research conferences and seminars.

Cooperation: The Centre maintains formal links with national organizations and exchanges information with several English-speaking countries. It is a member of IUFRO.

Official working language: English.

ZAIRE

CENTRE D'ADAPTATION DES TECHNIQUES ENERGIE-BOIS (CATEB)
35, avenue du Flambeau
B.P. 11.596
Kinshasa, République du Zaire

Téléphone: 27870; 27936
Adresse télégraphique:

Statut: Service spécialisé du Département de l'Environnement, Conservation de la Nature et Tourisme, créé en 1983 avec l'assistance de l'Agence Canadienne de Développement International.

Effectifs: 2 ingénieurs forestiers (dont 1 expatrié, directeur)
2 ingénieurs techniciens forestiers
4 autres techniciens (maçons, charbonniers)
3 administratifs|secrétaires

Stations de recherche sur le terrain: Il n'y a pas de stations de recherche, mais interventions sur demande dans tout le pays.

Principaux domaines d'activité:

Promotion, vulgarisation et encadrement technique dans la transformation et l'utilisation de la matière ligneuse comme source d'énergie.

Le CATEB aide ses clients à investir dans l'énergie-bois en leur offrant les services de personnels qualifiés. L'assistance se fait avant, pendant et après les investissements.

Le Service s'occupe principalement de la diffusion de fours de carbonisation modernes, avec une ouverture sur les autres techniques de l'énergie-bois: combustion directe, densification, gazogène et bio-gaz. La construction de quelques fours en maçonnerie a déjà été réalisée. Le CATEB compte à présent plus de 15 projets d'implantation de fours de carbonisation modernes.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports de missions et dans d'autres publications. La bibliothèque contient une centaine de volumes, ainsi que des périodiques et des dépliants publicitaires. Elle sera prochainement mise à la disposition des lecteurs.

Le CATEB offre les services suivants:

- études de faisabilité et de rentabilité;
- expertise sur le terrain;
- études du marché de l'énergie-bois;
- encadrement du personnel des sociétés pour la fabrication des fours en maçonnerie, la cueillette et la préparation de la matière première, l'écoulement des produits, la recherche de documentation et des avis techniques.

Coopération: Le CATEB maintient des contacts avec des institutions et entreprises nationales telles que SPIAF, SNR, COGER, etc., et avec l'Ambassade du Canada au Zaïre et l'Agence Canadienne de Développement International.

Langue officielle de travail: français.

ZAIRE

SERVICE PERMANENT D'INVENTAIRE ET D'AMENAGEMENT FORESTIERS
35, rue Pumbu
B.P. 10.120
Kinshasa I, République du Zaïre

Téléphone: 30886; 31642
Adresse télégraphique:

Statut: Service public auprès du Département de l'Environnement, Conservation de la Nature et Tourisme (adresse comme ci-dessus) et sous son contrôle. Créé en 1976 avec l'assistance de l'Agence Canadienne de Développement International.

Effectifs: 29 chercheurs professionnels (recherche et développement, dont 1 avec doctorat ou diplôme équivalent, et 7 expatriés)
84 techniciens
75 administratifs|secrétaires

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Recherche socio-économique sur le bois de feu, avec l'accent sur le comportement humain vis-à-vis de l'arbre et de la forêt, l'évaluation des besoins et des disponibilités, le rôle des plantations de bois de feu dans les programmes intégrés de développement rural, l'origine et la solution des conflits concernant la terre, les aspects institutionnels, et les aspects économiques des plantations de bois de feu.

Sylviculture des essences de bois de feu; choix des espèces; méthodes de préparation du sol; méthodes sylvicoles; systèmes de production de bois de feu.

Inventaire des ressources forestières.

Aménagement forestier.

Statistiques forestières.

Agro-sylviculture.

Technologie industrielle: charbon de bois et utilisation des résidus.

Recherche sur le milieu: impact de la production de charbon de bois par la méthode traditionnelle sur le sol forestier.

Installations spéciales: un herbier (208 échantillons) et une xylothèque (80 échantillons d'espèces du Zaïre).

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et sous forme de cahiers, fiches d'enquête ou recueils statistiques, etc. Le Service possède une bibliothèque avec 839 volumes; il y a 21 abonnements à des revues techniques et scientifiques internationales.

Coopération: Le Service maintient des contacts avec de nombreuses institutions nationales (échange d'informations et d'expérience) et internationales telles comme le Centre Technique Forestier Tropical, Nogent-sur-Marne, France (échange d'informations) et l'Agence Canadienne de Développement International (assistance technique). Il n'est pas membre de l'IUFRO.

Langue officielle du travail: français.

ZAMBIA

DIVISION OF FOREST RESEARCH
FOREST DEPARTMENT
20, Obote Avenue
P.O. Box 22099
Kitwe

Tel. 210456
Cables: SILVIC KITWE

Status: An integral unit of the State Forest Department, supervised by the Chief Conservator, Forest Department (Buteko Avenue, P.O. Box 70228, Ndola, tel. 2251). Embryo of silvicultural research established in 1930, subsequently strengthened in 1954 and 1965, when the Tree Improvement and Seed Section started.

Staff: 10 research professionals (2 Ph.Ds, 3 expatriates)
34 technicians
12 other (administrative/secretarial)

Field Stations: 4

Principal fields of activity:

Silviculture: tree breeding and provenance research; choice of species; ground preparation and silvicultural methods; fuelwood rotations; growth and yield studies.

Miscellaneous research: work on insects, pests and diseases (in exotic plantations and indigenous forests); mycorrhizal research.

Socio-economic research on fuelwood with main emphasis on the assessment of fuelwood requirements and fuelwood potentials; institutional aspects; economic aspects of fuelwood production.

Special facilities: A herbarium (40,000 specimens) with a full-time curator. The laboratory facilities include a flame photometer, a sterile air-bench and an autoclave.

Publications and services: Research results are published in annual reports, research notes (irregular issue) and scientific journals. The Division shares a library with the Forest Products Laboratory (4,000 volumes and 48 subscriptions to journals). Microfiche readers are available.

Cooperation: The Division maintains informal links with other national and foreign institutions for the exchange of information, and formal cooperative links with the Finnish Research Institute (training, technical assistance and supply of materials), the IDRC and the Commonwealth Forestry Association. It is a member of IUFRO.

Official working language: English.

ZAMBIA

DIVISION OF PRODUCTS RESEARCH
FOREST DEPARTMENT
P.O. Box 20388
Kitwe

Tel. 217088; 218108
Cables:

Status: A unit of the State Forest Department, founded in 1963. Supervised by the Forest Department (P.O. Box 70228, Ndola, tel. 2251/2) and, to a limited extent, by the National Council for Scientific Research.

Staff: 8 research and development professionals (1 expatriate)
4 technicians
3 other (administrative/secretarial)

Field stations:

Principal fields of activity:

Characteristics of preferred fuelwood species; fuelwood production systems; fuelwood rotations; growth and yield studies; inventory of fuelwood resources.

Technology research: preservation of timber; wood technology; structure, strength and seasoning properties; processing of fuelwood; conversion of fuelwood into energy; charcoal-making; use of residues; wood-based derivatives; essential oils, gums and tannins.

Environmental research: impact of fuelwood production, supply and use on the environment.

Special facilities: A xylarium (200 specimens). The laboratory facilities include a gas chromatographer, an electron microscope, a bomb calorimeter, a tensionmeter, test rigs(20 and 500 tons), a high temperature drying kiln, a peeling lathe and impregnation plants.

Publications and services: Research results are published in annual reports and research notes and are disseminated through research conferences and seminars. The Division shares the library with the Division of Forest Research. Microfiche readers are available.

Cooperation: The Division maintains cooperative links with the National Council for Scientific Research and with the University of Zambia. It also maintains formal links with the Tropical Products Institute, U.K. (assistance in the charcoal section); with the Finnish Government (funding and technical assistance), and with IUFRO (member).

Official working language: English.

ZAMBIA

TREE IMPROVEMENT RESEARCH CENTRE
NATIONAL COUNCIL FOR SCIENTIFIC RESEARCH
P.O. Box 21210 Tel. 216734
Kitwe Cables:

Status: Public institution under the Ministry of Higher Education, founded in 1965. Present status from 1973.

Staff: 5 research professionals (2 Ph.Ds, 1 expatriate)
4 technicians

Field stations: 1

Principal fields of activity:

Ecology of forest trees, shrubs and herbs with economic potential.

Genetic, physiological and silvicultural research to improve the plant material.

Minor products such as woodcarvings, poles, canoes, etc.

Socio-economic research on the role of different tree species.

Special facilities: None. The laboratory facilities include an incubator, an autoclave, seed testing equipment and microscopes.

Publications and services: Research results are published in annual reports, technical reports and in "Zambia Science and Technology", and are disseminated through research conferences and seminars. The Centre maintains a library of about 4,000 scientific/technical volumes; 10 subscriptions to international journals.

Cooperation: The Centre maintains links with other national institutions such as the Agricultural Research Centre and the Forest Department, and international links with the U.S. Department of Agriculture; the International Atomic Energy Agency; the Commonwealth Forestry Institute, Oxford, U.K.; and FAO. It is a member of IUFRO.

Official working language: English.

ZAMBIA

SCHOOL OF ENGINEERING
UNIVERSITY OF ZAMBIA
P.O. Box 32379
Lusaka

Tel. 253194
Cables: UNZA LUSAKA

Status: A unit of the University supervised by the National Council for Scientific Research (P.O. Box CH 158, Lusaka).

Staff: 1 research professional (Ph.D)
1 technician
2 other (secretarial)

Field stations: None

Principal fields of activity:

Industrial and technological research on fuelwood: processing of fuelwood; conversion of fuelwood into energy; use of residues; wood preservation.

Wood-based derivatives: pyrolysis; gasification; methanol, ethanol and liquid fuel technology.

Miscellaneous research: biomass project; design and construction of a charcoal retort model; and efficient charcoal and wood-burning stoves.

Special facilities: None. The laboratory equipment comprises a calorimeter.

Publications and Services: Research results are published in annual reports and disseminated through research conferences, seminars and colloquia. The library facilities are limited. Microfiche readers are available in the University library.

Cooperation: The School maintains formal cooperative links with the Zambia Forest Department; the Commonwealth Science Council; the International Development Research Centre, Ottawa, Canada; and the Overseas Development Administration, London, U.K. It is not a member of IUFRO.

Official working language: English.

ZIMBABWE

FOREST RESEARCH CENTRE
P.O. Box HG 595
Highlands
Harare

Tel. 46878|9; 46310
Telex: 2446 ZW

Status: An integral unit of the Forestry Commission. Research started in 1969 with the construction of offices and a wood-testing laboratory. This was followed by the development of seed storage facilities (1971), an entomological laboratory (1979) and office extensions. In 1980, seed processing facilities were developed, and in 1983 a computer laboratory was established. A regional seed centre to serve the eastern and southern African countries was established in 1985|86 with IDRC funding.

Staff: 11 research and development professionals (1 Ph.D., 4 expatriates)
12 technicians
5 other (administrative/secretarial)

Field stations: 4

Principal fields of activity:

Tree improvement and silvicultural research; seed handling.

Wood technology.

Agroforestry.

Forest protection (entomology/pathology)

Hydrological studies on catchments.

Special facilities: A xylarium (1,231 specimens).

Publications and services: Research results are published in bulletins and forestry research papers and are disseminated through research conferences and seminars. The Centre maintains a library with some 1,100 volumes; 22 subscriptions to journals.

Cooperation: The Centre collaborates with the national Hydrological and Meteorological Departments. It also has close links with the Australian Development Assistance Bureau; the International Development Research Centre, Ottawa, Canada; and the Overseas Development Administration, London, U.K. It is a member of IUFRO.

Official working language: English.

A S I A / P A C I F I C

A S I E / P A C I F I Q U E

A S I A / P A C I F I C O

AUSTRALIA

RESEARCH AND DEVELOPMENT DIVISION
WOODS AND FORESTS DEPARTMENT
135 Waymouth Street
Box 1604 G.P.O.
Adelaide, S.A. 5001

Tel. (08) 2167211
Cables: WOODFOREST
Telex: AA 82231

Status: A public institution of the State of South Australia, founded in 1876 subsequent to the Forestry Act of 1873. (See also South Australian Timber Corporation, an associated organization.)

Staff: 17 research and development officers (4 Ph.Ds)
17 technicians
5 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Silviculture of pines, particularly Pinus radiata, with emphasis on tree breeding; forest inventory; growth prediction methods and models; crop nutrition; operations research in sawmills, forests and secondary utilization plants; forest products, milled, roundwood fuel and composts; sustained yield forestry management systems.

The activities are carried out in the sub-humid and semi-arid parts of the temperate zone. Five percent of the research concerns mature eucalyptus species and use in agricultural areas.

Publications and services: Research results are published in an annual report and in the proceedings of research conferences and seminars. The Department also publishes bulletins and technical memoranda at irregular intervals. Scientific papers are also published in technical journals. The Department has its own library with full-time professional staffing. There are over 8,000 scientific and technical books and journals, a comprehensive photographic collection and some films on local forestry.

Cooperation: The Department has research activities in developing countries and exchanges information with overseas research agencies. It is willing to strengthen its research links with developing countries. The Department is a member of IUFRO.

Official working language: English.

AUSTRALIA

SOUTH AUSTRALIAN TIMBER CORPORATION (Satco)
135 Waymouth Street
P.O. Box 1604
Adelaide, S.A. 5001

Tel. (08) 2167211
Cables: WOODFOREST
Telex: AA 82231

Status: A public institution associated with Woods and Forests Department, but under a separate Act (1979).

Staff: Drawn from the Woods and Forests Department as required, from professional managers, engineers, sawmillers, plymillers, foresters, accountants, system technicians, etc., in the wood industry.

Field stations: 9 forest reserves, 6 utilisation units.

Principal fields of activity:

Sawmilling, plymilling, furniture component manufacture, marketing, engineering, forestry, logging, environmental woodlot planting.

Special facilities: Satco operates an integrated operation involving harvesting of around 700,000 m^3 logs per year. It can consult on the practical operations of semi-arid area afforestation and utilisation.

Publications and services: Research results are published in an annual report and in the proceedings of research conferences and seminars. The Department also publishes bulletins and technical memoranda at irregular intervals. Scientific papers are also published in technical journals. There is a library (8,000 scientific and technical volumes) with microfiche readers; 150 subscriptions to international technical journals.

Cooperation: The Department has research activities in developing countries and exchanges information with overseas research agencies. It is willing to strengthen its research links with developing countries. The Department is a member of IUFRO.

Official working language: English.

AUSTRALIA

DEPARTMENT OF ECOSYSTEM MANAGEMENT
UNIVERSITY OF NEW ENGLAND
Armidale, N.S.W. 2351

Tel. (067) 73 2539
Telex: 66050

Status: A department of the University of New England, initially part of the School of Natural Resources, established in 1972 but later given departmental status following the formation of the Faculty of Resource Management in 1978.

Staff: 7 academic staff (6 Ph.Ds) and 2 research fellows (both Ph.Ds)
8 technicians
1 other (secretarial)

Field stations: 2 (Newholme Field Research Station, Fraser Island)

Principal fields of activity:

Forest ecology, nutrient cycling, nutrient distribution in relation to vegetation patterns, forest hydrology and watershed management, effects of logging on wildlife, seed disposal and predation by wildlife, vertebrate predation of forest insects, forest policy, forest land evaluation.

The activities are conducted in tropical, sub-tropical and both wet and dry sclerophyll forests of eastern Australia.

Special facilities: Plant, soil and water analysis laboratories (mostly for chemical analyses); glasshouse and animal houses.

Publications and services: Reports are published in scientific journals and conference proceedings or disseminated through seminars. A Natural Resources Project Report series is used to present relevant findings of major research projects. The Department has access to the University Library.

Cooperation: Cooperative links with the Queensland Forest Department and the Forestry Commission of New South Wales. Training of post-graduate students from Africa and Asia. The Department is not a member of IUFRO.

Official working language: English.

AUSTRALIA

WOOD TECHNOLOGY AND FOREST RESEARCH DIVISION
Oratava Avenue, West Pennant Hills
P.O. Box 100 Tel. (02) 871 3222
Beecroft, N.S.W. 2119 Telex: FORCOM AA 21657

Status: A public institution founded in 1936 by the Forestry Commission of N.S.W. The Division was originally a Division of Wood Technology, with silviculture being carried out by the Management Planning Division. Amalgamation of the two divisions took place in 1976. The Division manages the research programme of regional research centres.

Staff: 36 research officers (6 Ph.Ds)
35 technicians
5 professionals in management/technical services (1 Ph.D)
16 (administrative secretarial)
36 field and support staff

Field stations: 5

Principal fields of activity:

Silviculture of eucalypts and conifers, primarily for timber and pulp production; forest ecology (flora and fauna); hydrology; fire; soils and nutrition; tree breeding; forest pathology; microbiology; entomology; conversion of wood; wood structure; wood drying and preservation; timber engineering.

Training, extension and development.

The activities are carried out mainly in the temperate, semi-arid and sub-tropical zones.

Special facilities: Regional herbaria with 20,000 specimens and a xylarium with 13,000 specimens. The Division also maintains collections of insect and fungal specimens.

Publications and services: Research results are published in biennial reports and in the proceedings of research conferences and seminars. Occasional publications include the Forestry Commission of N.S.W. research papers, research notes, technical papers, technical publications, biennial bibliographies, and unpublished reports. There is a library (60,000 scientific and technical volumes) with microfiche readers.

Cooperation: The Division is currently cooperating in two research projects: Eucalyptus Planting in China (a project of the Australian Development Assistance Bureau) and Timber Preservation in Sabah (FAO). Other formal links include occasional training programmes (e.g. with China) and exchange of staff and of information with other research agencies. The Division is willing to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

AUSTRALIAN NEWSPRINT MILLS LIMITED
Boyer, Tasmania 7140 Tel. (002) 61 0111

Status: A private company founded in 1939. It has since expanded from a one-machine plant of 30,000 tons to a four-machine company with two plants and associated harvesting operations producing 400,000 tonnes of product.

Staff: The company has a Corporate Research & Development Group employing 12 qualified staff and 7 assistants at Boyer and smaller groups within the mills.

Field stations: None

Principal fields of activity:

Harvesting; pulping techniques for mature wood and young wood of eucalypts; mechanical pulping of P. radiata; paper manufacturing techniques; effluent treatment.

The activities are conducted mainly in the temperate and mountainous zones.

The company is also involved with training and development.

Special facilities: None

Publications and services: Research results are stored in a computerized data base and are disseminated in the proceedings of conferences and seminars. The company has a modern well-equipped technical library, and interloan library facilities are available through the normal channels. It is staffed by two qualified librarians and one assistant.

Cooperation: The company has no formal research links with developing countries but has exchanged staff and information on an international basis. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

DIVISION OF TECHNICAL SERVICES
(RESEARCH AND UTILIZATION)
QUEENSLAND DEPARTMENT OF FORESTRY
366 Upper Roma Street
P.O. Box 5
Brisbane, Queensland 4000

Tel. 2296500
Cables: FORESTRY BRISBANE
Telex: QUE FOR AA 44841

Status: A public institution of the Queensland Department of Forestry.

Staff: 44 research officers (6 Ph.Ds)
43 technicians
10 other (administrative/secretarial)

Field stations: 3

Principal fields of activity:

Silviculture of native and exotic conifers; silviculture of natural forests; tree breeding of native and exotic conifers; timber utilization; wood structure; seasoning practice; wood chemistry and preservation.

A fuelwood project was initiated in 1983.

The research activities are conducted mainly in the humid and sub-tropical zones.

Special facilities: A herbarium with 4,000 specimens and a xylarium with 2,000 specimens.

Publications and services: Research results are disseminated in an annual report and in the proceedings of research conferences and seminars. The following serial and periodic publications are issued: research papers, technical notes, research notes, information sheets, biennial research reports, unpublished research notes. The library contains 8,953 scientific and technical volumes and 1,006 serials, of which 213 are technical journals by subscription.

Cooperation: The Division has no research activities in developing countries but would be willing to develop such links and could provide technical training in Queensland. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

ASSOCIATED PULP AND PAPER MILLS LTD.
Marine Terrace
P.O. Box 201
Burnie, Tasmania 7320

Tel. (002) 311222
Cables:

Status: A private company.

Staff: 2 research officers (1 Ph.D)
Other staff are provided by the parent company as there is no separate forestry research organization.

Field stations: 1

Principal fields of activity:

Silviculture, especially tree breeding; entomology and animal ecology; wood chip exports; evaluation and improvement of pulp quality.

The research activities are carried out mainly in temperate zones.

Special facilities: A herbarium with 3,000 specimens and an insect collection of 3,000 specimens. There are also extensive nursery facilities. Laboratory equipment includes a scanning electron microscope and pulp apparatus.

Publications and services: Research results are published in the proceedings of research conferences and seminars and in scientific journals. There is a library with 10,000 scientific and technical volumes; 150 subscriptions to international technical journals. Research staff also have access to the company library.

Cooperation: The Company exchanges information and has formal links with South African Pulp and Paper Industries Ltd. (SAPPI), and with the Association Forêts - Cellulose (AFOCEL), France. The Company has trained a technician from the Philippines and would be willing to develop research links with developing countries. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

A.P.M. FORESTS PTY. LTD.
685 Burke Road
P.O. Box 811
Camberwell, Victoria 3214

Tel. 03/811 9811
Telex: AA 32726

Status: A private company established in 1950, the forestry subsidiary of A.P.M. Ltd., Australia's largest manufacturer of pulp and paper.

Staff: 2 research professionals
5 technicians

Field stations: 1

Principal fields of activity:

Silviculture of pines and eucalypts for timber and pulp production.
Tree breeding, vegetative propagation, tissue culture.
Soils and nutrition.
Weed control, spacing and thinning.
Forest inventory and growth prediction methods and models.
Economics.
Harvesting methods, mechanisation of logging.
Wood properties, pulping associated with Australian paper manufacturers' research laboratories in wood properties and pulping.

Special facilities: None

Publications and services: Research results are published in the proceedings of research conferences and seminars and in scientific journals. Extensive library facilities through Australian paper manufacturers.

Cooperation: The company is involved in several cooperative research projects within Australia. It exchanges information with pulp and paper companies and forest services overseas and is willing to develop research links with developing countries. The company is associated with a consulting company, ANFOR PTY. LTD., which also has a New Zealand partner and provides consulting services in forestry, pulping, paper-making, etc. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF ENTOMOLOGY
G.P.O. Box 1700
Canberra, A.C.T. 2601

Tel. 062/464911
Telex: 62309

Status: A public research institution established in 1928 for the study of insects of economic importance and the biological control of weeds using insects.

Staff: 120 researchers

Field stations: 9 (Australia), 6 overseas.

Principal fields of activity:

Basic and applied studies on the taxonomy, ecology, physiology, behaviour, pathology, genetics and molecular biology of insects and related arthropods, as well as maintenance of the Australian National Insect Collection.

Special facilities: The Australian National Insect Collection is the largest collection of Australian insects and includes over 5 million specimens. The Division has quarantine facilities for maintenance of insect and plant colonies.

Publications and services: Research results are published in international and national journals. A biennial report is published, as well as two series of Divisional reports and technical papers. Occasional information sheets and booklets on specific topics are published as required. The Division produces and publishes in collaboration with Melbourne University Press the major text "The Insects of Australia". Shared CSIRO library facilities at Black Mountain Site (Head Office), Canberra. This library contains 120,000 scientific and technical volumes; 400 subscriptions to international technical journals.

Cooperation: Research on aspects of biology and control of economically important species of termites (mainly Cryptotermes and Coptotermes) together with Guangdong Entomological Institute (People's Republic of China), Royal Forest Department, Bangkok (Thailand), and Pematang Siantar Forestry Research Institute (Indonesia). The Division is not a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF FOREST RESEARCH
P.O. Box 4008
Canberra, A.C.T. 2600

Tel. 062/818211
Facsimile (062) 818312
Telex: (AA) 62751

Status: A public research organization. Founded in 1927 as the Commonwealth Forestry Bureau, it was replaced in 1946 by the Forestry and Timber Bureau, with an increase in research activity. In 1961, a Forest Research Institute was created within the Forestry and Timber Bureau, and in 1975 this was made part of the Commonwealth Scientific and Industrial Research Organization.

Staff: 88 research and development officers (31 Ph.Ds)
77 technicians
27 other (administrative/secretarial)
5 library

Field stations: 5

Principal fields of activity:

Forest operations (harvesting); fire behaviour and control; ecology; eco-physiology; diseases; genetic resources and breeding strategy; soils and nutrition; modelling and biometrics.

The Division is a major supplier of Australian seed for research purposes. The Australian Development Assistance Bureau provides funding support to assist seed supply to eligible agencies in other countries.

The research activities are conducted in the humid tropical and temperate zones.

Special facilities: An extensive stock of seed of Australian trees, and associated herbaria.

Publications and services: Research results are published in a biennial report, in occasional divisional reports, in books and in scientific journals, and are disseminated through research conferences and seminars. The Division contributes to the quarterly publication "Australian Forest Research" published by CSIRO. The Division undertakes contract research and provides consultants in fields of special expertise. The library has 20,000 scientific and technical volumes, and 1,300 journals and serials; on-line access to the Australian Bibliographic Network and the CSIRO library system.

Cooperation: The Division collaborates with IUFRO, FAO and many other agencies in species and provenance trials of Australian trees. This work is assisted by the Australian Development Assistance Bureau and the Australian Centre for International Agricultural Research. The Division may also provide training in selected topics and host established scientists wishing to study problems of mutual interest. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF PLANT INDUSTRY
G.P.O. Box 1600
Canberra, A.C.T. 2600

Tel. 062 46 4911
Telex: 62351

Status: A public institution originaly established in 1928 as an agricultural and pastoral research institution, with development of research programmes on the taxonomy and ecology of Australian natural vegetation in the 1950's.

Staff: 153 research and development officers (107 Ph.Ds)
207 technicians
36 other (administrative|secretarial)

Field stations:

Principal fields of activity:

Improving agricultural production through research in the plant sciences and developing new and existing crops, pastures and agricultural practices to meet both current and future requirements in Australia. Also research on Australian flora and vegetation, its taxonomy, ecology and management.

The activities are conducted mainly in the temperate and mountainous zones.

Special facilities: A herbarium with 475,000 specimens. Equipment includes a controlled environment research laboratory (phytotron).

Publications and services: Research results are published in a biennial report and in scientific papers and technical reports. The Division publishes an Australian Plant Introduction Review twice a year. There is a library (140,000 scientific and technical volumes) with microfiche readers; 400 subscriptions to international technical journals.

Cooperation: The Division is carrying out research on nitrogen balance in S.E. Asian agricultural systems through the Australian Centre for International Agricultural Research. Other formal links include training, exchange of staff and exchange of information. The Division is not a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF WATER AND LAND RESOURCES
Clunies Ross Street, Black Mountain
G.P.O. Box 1666
Canberra, A.C.T. 2601

Tel. 062/46.4911
Cables: RESEARCHLABS CANBERRA
Telex: 62337

Status: A public institution, the origins of which go back to 1946 when the Northern Australian Regional Survey Section was formed in the CSIRO Division of Plant Industry.

Staff: 66 research and development officers (28 Ph.Ds)
48 technicians)
12 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

To promote better use of the water and land resources of Australia. Water research is particularly concerned with catchment hydrology and with salinity and other aspects of water quality. New methods are also being developed to assist resource survey, land evaluation, land-use planning and resource management. Forest-related research is particularly concerned with land evaluation for forestry, management of woodland vegetation, assessment of forest resources and studies of forest hydrology.

Special facilities: None

Publications and services: Research results are published in a biennial report and in scientific papers and technical reports. Use is made of the main CSIRO library.

Cooperation: The main research activity in a developing country is the development of a geographic information system for Papua New Guinea. The main forest research project aimed at developing countries is devising new methods of climatic analysis to assist the selection of Australian species and provenances for trials. The Division is not a member of IUFRO.

Official working language: English.

AUSTRALIA

DEPARTMENT OF FORESTRY
AUSTRALIAN NATIONAL UNIVERSITY
G.P.O. Box 4
Canberra, A.C.T. 2601

Tel. 062-492 608
Cables: NATUNIV
Telex: 61670

Status: A university institution. In 1926, the Australian Forestry School was established and in 1965 the School was re-constituted as the Department of Forestry within the Australian National University.

Staff: 21 research, teaching and development staff (14 Ph.Ds)
17 technicians
6 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Silviculture; tree breeding; forest pathology; forest zoology, including entomology; tree physiology; forest history; forest engineering; harvesting; economics; community forestry; watershed management; wood science, with emphasis on utilization; forest soils science; fire science.

The Department is also heavily involved in forestry for rural development, particularly in developing countries. In addition to this, the Department is primarily concerned with education.

The activities are conducted mainly in the sub-tropical, temperate and mountainous zones of Australia.

Special facilities: A small herbarium with 550 specimens.

Publications and services: Research results are published in an annual report and in the proceedings of research conferences. Approximately 30 research articles are published per year in scientific journals or reports. In addition to the main university library, the Department maintains a library (5,000 scientific and technical volumes and 10,000 technical pamphlets) with microfiche readers; 20 subscriptions to international journals.

Cooperation: The Department is carrying out community forestry research in Nepal, where it maintains a field station. Over 30 persons, from 18 different countries, are at present being trained in various research subjects at Canberra, and the Department is willing to expand such research and training cooperation. It is a member of IUFRO.

Official working Language: English.

AUSTRALIA

CSIRO DIVISION OF CHEMICAL AND WOOD TECHNOLOGY
Bayview Avenue
Private Bag
Clayton 3168

Tel. 03/5422244
Telex: AA 35675

Status: Division of Commonwealth Scientific and Industrial Research Organization funded by the Australian Government and collaborating industries.

Staff: 85 professionals
53 technicians
11 other (administrative/secretarial)
26 trade and support

Field stations: 2

Principal fields of activity:

The Division is concerned with the efficient application of chemical and biochemical technology and engineering to the utilization of resources such as forests, agricultural products and water. Research areas include: wood science; timber conversion; wood preservation; fibre separation and pulping; development of pulpwood resources; cellulose-based composite materials; the use of chemical and biological systems for the production of speciality chemicals; technologies for purifying and recycling water; technical and economic assessments of research planning; industrial microbiological techniques for developing vaccines; agricultural engineering.

Special facilities: A thermomechanical pulping pilot plant; electron microscopy equipment; NMR and ESR spectroscopy.

Publications and services: The Division publishes an annual research review, a technical paper series, individual research papers, and a forest products newsletter. The Divisional Library is part of the CSIRO nationwide network.

Cooperation: Close collaboration with industry - forest products and water purification. The Division is a member of IUFRO.

Official working language: English.

AUSTRALIA

PRODUCTION AND PROTECTION RESEARCH BRANCH
DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT
Hayman Road
P.O. Box 104 Tel. (09) 367 6333
Como, W.A. 6152 Telex: 94616

Status: Forestry research in the Department of Conservation and Land Management is now carried out by the Production and Protection Research Branch. In the former Forests Department, the Branch was known as 'Research Branch'. It is a public research organisation of the State of Western Australia. The Research Branch was established in 1919 and continued on a minor scale until 1950, when the programme was increased. Since 1970 there has been a rapid expansion, and in 1985 the Production and Protection Research Branch came into being with the creation of the new Department.

Staff: 22 research officers (6 Ph.Ds)
58 technicians
6 other (administrative/secretarial)

Field stations: 5

Principal fields of activity:

Silviculture, pine forest establishment, and eucalypt forest management.

The activities are carried out mainly in the temperate zone and include also training and extension.

Special facilities: (information not available)

Publications and services: Research activities are summarised in an annual report and in the proceedings of research conferences and seminars. Research results are published in research bulletins, research papers and technical reports. The serial publication "Landscape" is published three times a year. The Branch maintains a library (30,000 scientific and technical volumes) with microfiche readers; 85 subscriptions to international technical journals.

Cooperation: No research activites in developing countries. The Production and Protection Research Branch is a member of IUFRO.

Official working language: English.

AUSTRALIA

RESEARCH SECTION, STATE FORESTS AND LANDS SERVICE
DEPARTMENT OF CONSERVATION, FORESTS AND LANDS
240 Victoria Parade
East Melbourne, Victoria 3002

Tel. (03) 651 4011
Telex: AA36440

Status: The State Forests and Lands Service is a public institution of Victoria.

Staff: 28 research and development officers (8 Ph.Ds)
12 technicians
5 other (administrative/secretarial)

Field stations: 3

Principal fields of activity:

Tree nutrition and physiology, genetics, management and mensuration, pests and diseases, wood quality, ecological studies, silviculture, agroforestry.

The activities are carried out mainly in the temperate zone.

Special facilities: Well-equipped analytical laboratory.

Publications and services: Research results are published in internal reports, external publications and scientific papers, and are disseminated through research conferences and seminars.

Cooperation: The Research Section has formal international links for the exchange of staff and information. It would be willing to strengthen research links with developing countries. The Section is a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF SOILS
Waite Road, Urrbrae
Private Bag No. 2
Glen Osmond, Adelaide, S.A. 5064

Tel. 08/274 9311
Telex: 82406

Status: A public institution started in 1928 and which provides a national focus for research into the properties and behaviour of the soils of Australia, including research aimed at improving their management for forestry.

Staff: 88 research staff (51 Ph.Ds)
52 technicians
34 other (administrative/secretarial)

Field stations: 3 Branch Laboratories

Principal fields of activity:

The Division studies the physics, chemistry and biology of soils and other porous media, together with the integrative disciplines of pedology and geomorphology. It also seeks to establish principles for the application of soil science to agriculture, forestry, hydrology, engineering and conservation.

Special facilities: A scanning electron microscope, transmission electron microscope, numerous glasshouses and very good analytical facilities.

Publications and services: Research results are published in an annual report, in Divisional reports and in soil and land use serials. They are also published in books and scientific journals and are disseminated through research conferences and seminars. There is a well equipped library with 650 periodicals and 10,000 monographs. Microfiche readers are available. Access to on-line data base services (DIALOG/CSIRONET/CAS online).

Cooperation: Research is being carried out in Zimbabwe and Thailand as part of an ACIAR (Australian Centre for International Agricultural Research) forestry programme. Forestry projects in Kenya and China are also expected to commence during 1986. The Division is not a member of IUFRO.

Official working language: English.

AUSTRALIA

RADIATA PINE RESEARCH INSTITUTE INC.
35 North Terrace
Hackney, Adelaide, S.A. 5069 Tel. (08) 425724

Status: Industry research institute supported by the Australian Radiata Pine Industry and the Australian Government.

Principal staff: A technical director and a research manager.

Field stations: -

Principal fields of activity:

Fundamental and applied research into the properties, manufacture and application of Radiata pine materials and associated technology transfer activities.

Special facilities: None

Publications and services: The Institute publishes technical bulletins, technical data sheets, industry standards, and an annual report. It maintains a small, selective collection of scientific and technical material relevant to forest products research.

Cooperation: The Institute cooperates mainly with the Australian Radiata pine industry. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF BUILDING RESEARCH
Graham Road
P.O. Box 56
Highett, Victoria 3190

Tel. 03/555 0333
FAX (03) 553 3214
Telex: AA 33766

Status: A division of the Commonwealth Scientific and Industrial Research Organization.

Staff: 80 professional and 100 support staff

Field stations: None

Principal fields of activity:

Building research in four programs:

- Design for Durability (includes adhesives);
- Safety and Risk (includes fire research and timber engineering);
- Life Cycle Performance (includes economics of building);
- Shelter and Infrastructure (includes information technology).

Special facilities: Acoustic chambers, large testing machines.

Publications and services: The Division publishes the following: REBUILD (a bimonthly news sheet); research papers (annually, summarizing research); PROGRAM OF RESEARCH (annually); conference and research papers in scientific and technical journals; and BUILDING TOMORROW (videotapes on aspects of research).

Cooperation: -
The Division is not a member of IUFRO.

Official working language: English.

AUSTRALIA

CENTRE FOR ENVIRONMENTAL STUDIES
UNIVERSITY OF TASMANIA
P.O. Box 252 C
Hobart, Tasmania 7001

Tel. (002) 202643
Cables: TASUNI
Telex: UNTAS AA 58150

Status: A Centre of the University of Tasmania, established in 1975.

Staff: 4 research officers (3 Ph.Ds)
2 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Tasmanian rain forest; forest policy; utilization, including wood chipping; yield; harvesting; wood properties; fuelwood production and use. Sixty per cent of the research programme is devoted to fuelwood and energy activities, including socio-economic studies on fuelwood energy; silviculture of fuelwood species, including tree improvement; yield, harvesting and wood properties; technology of fuelwood and charcoal, including improved stove design and emissions.

The research activities are conducted in semi-arid lands, in the dry and humid tropics, and in temperate zones.

Special facilities: A special laboratory was established for testing small (< 20 kw) fuelwood burning appliances.

Publications and services: Research results are published in journals, in the proceedings of research conferences and seminars, and in the following occasional publications: environmental study papers, environmental study working papers, environmental study project reports. Use is made of the main university library, on which information is not available. Fuelwood projects are summarized in the Centre's Fuelwood Research Bulletin (annual).

Cooperation: Research is being carried out on fuelwood supplies in Australia, India, Indonesia and Tonga, and information is exchanged with research agencies overseas. There are at present 3 trainees at the Centre (from Indonesia, India and Pakistan). The Centre is willing to strengthen its research links. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

FORESTRY COMMISSION TASMANIA
G.P.O. Box 207 B
Hobart, Tasmania 7001

Tel. 30 3250
Telex: Tasfor AA 57204

Status: A public institution of the State of Tasmania, founded in 1947.

Staff: 18 research officers (3 Ph.Ds.)
8 technicians
2 other (library)

Field stations: None

Principal fields of activity:

Silviculture, management and ecology of native forests of eucalypts and temperate rain forest; silviculture and management of plantations of eucalypts and radiata pine; soils and nutrition; entomology; pathology; and socio-economic aspects of fuelwood production and use.

The activities are conducted mainly in the temperate and mountainous zones and also include training, extension and development.

Special facilities: A herbarium with 2,000 specimens.

Publications and services: Research results are dissminated in an annual report and in the proceedings of research conferences. The library contains several hundred scientific and technical volumes; 40 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Commission exchanges information with research agencies overseas. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF WILDLIFE AND RANGELANDS RESEARCH
Bellenden Road, Gungahlin
P.O. Box 84
Lyneham, A.C.T. 2602

Tel. 062/411211
Telex: WLR AA62284

Status: A public institution originally established in 1949 as the Wildlife Survey Section. Renamed "Division of Wildlife Research" in 1961, and "Division of Wildlife and Rangelands Research" in 1982.

Staff: 55 research and development staff (42 Ph.Ds)
82 technicians
48 other (administrative/secretarial)

Field stations: 5

Principal fields of activity:

Research for the management of wildlife and rangelands, including research into taxonomy, biogeography and physiology of the Australian fauna.

Research activities relating to the fauna of forests are concentrated in the tropics in rainforests of north-eastern Australia and in temperate eucalypt forests of south-eastern Australia.

Special facilities: The Division houses the Australian National Wildlife Collection of 50,000 specimens of vertebrate animals.

Publications and services: Research results are published in scientific journals and in 3 series of technical reports issued by the Division. A biennial report summarizing research progress is also published. The library holds 16,000 scientific and technical volumes. Microfiche readers are available; 550 subscriptions to international technical journals.

Cooperation: The Division has no research activites in developing countries. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

FORESTRY SECTION
UNIVERSITY OF MELBOURNE
Parkville, Victoria 3052

Tel. (03) 341 5240
Telex: AA 35185

Status: An institution of the University of Melbourne. The Victorian School of Forestry (founded in 1910) and the School of Forestry, University of Melbourne (founded in 1946) were affiliated in 1980 and university research is now under the sole control of the University of Melbourne.

Staff: 9 research officers (6 Ph.Ds)
6 technicians
2 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Forest ecology, tree nutrition and physiology, silviculture, forest mensuration and inventory, forest harvesting, hydrology, forest economics and management, including socio-economic aspects of fuelwood research.

Five percent of the research programme is devoted to fuelwood and energy research.

The activities, which include training, are carried out in semi-arid, temperate and mountainous zones.

Special facilities : A small herbarium and xylarium. There are also small insect and fungal collections.

Publications and services: Research results are published in an annual report and in scientific journals, and are disseminated through research seminars. There is a library (no information on number of volumes) with microfiche readers.

Cooperation: Research cooperation is being planned in the fields of wood science and silviculture. Two persons from Kenya and Indonesia are undergoing training in pathology, and four Chinese are being training in nutrition (1), physiology (2) and biometrics (1). The Forestry Section is willing to strengthen its research links. It is a member of IUFRO.

Official working language: English.

AUSTRALIA

AUSTRALIAN PARTICLEBOARD RESEARCH INSTITUTE INC.
Cowper Street, 29, Suite 2
Parramatta, N.S.W. 2150

Tel. (02) 633 2162
Telex: COWPER AA 74220

Status: Research arranged on a contract basis with other organizations. Funding: 50% Federal Government, 50% Australian Particleboard Manufacturers Association.

Staff: -

Field stations: None

Principal fields of activity:

Arranges contract research or investigations into particleboard processing, products, performance, applications.

Special facilities: None

Publications and services: None. Only minor library facilities.

Cooperation: The Institute collaborates with CSIRO Division of Chemical and Wood Technology; Capricornia Institute of Advanced Education, Timber and Wood Products Research Centre; Forestry Commission of New South Wales, Wood Technology and Forest Research Division. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

FOREST PRODUCTS RESEARCH UNIT
ASSOCIATED PULP AND PAPER MILLS
East Ridgley Road
P.O. Box 63
Ridgley, Tasmania 7321

Tel. 004/357293
Cables: ASFORS
Telex: 59089

Status: A private enterprise. Parent company: North Broken Hill Ltd. (inc. in Vic.)

Staff: 8 professional and technical officers (3 Ph.Ds)

Field stations: 1

Principal fields of activity:

Silviculture, especially tree breeding (mainly Eucalyptus); forest ecology (incl. entomology and animal ecology); evaluation and improvement of pulp quality; wood chip exports.

Special facilities: Laboratories with facilities for tissue culture research, pollen collection, pulp wood evaluation, scanning electron microscope, controlled environment, glasshouse and nursery facilities, extensive herbarium and insect collection, arboretum .

Publications and services: Research results are published in the proceedings of forestry conferences and in scientific journals. The Company has its own library with 10,000 scientific and technical journals; 10 subscriptions to technical journals.

Cooperation: Formal links with CSIRO Division of Forest Research and with the National Biotechnology Programme. Informal links with the University of Tasmania and other private companies. The Company is not a member of IUFRO.

Official working language: English.

AUSTRALIA

BOTANY DEPARTMENT
UNIVERSITY OF QUEENSLAND
St. Lucia, Queensland 4067

Tel. 07/3772731
Cables: UNIVQLD
Telex: AA 40315

Status: Tertiary education and research.

Staff: 12 academic staff

Field stations: None

Principal fields of activity:

Ecology and physiology of tropical and subtropical forests; primary productivity of forests; nutrient cycling and succession of disturbed rainforest; phenology in eucalypt forests; radiation, photosynthesis and water relations of rainforest species; ecology of lianas in rainforests; light relations of gaps and forest regeneration.

Special facilities: Field and laboratory systems for the study of photosynthesis and water relations; portable spectroradiometer; comprehensive plant and soil analysis facilities; electron microscope.

Publications and services: Research results are published in scientific journals. The University Library contains over 1 million volumes.

Cooperation: Cooperative arrangements exist with state and federal bodies interested in forestry research in Australia. Cooperation with South-East Asian countries is welcomed. The University is not a member of IUFRO.

Official working language: English.

AUSTRALIA

THE AUSTRALIAN MUSEUM
6-8 College Street
P.O. Box A 285
Sydney South, N.S.W. 2000

Tel. 02 339 8111
Cables: MUSEUM

Status: A public institution of New South Wales, founded in 1827.

Staff: Approximately 180, of whom 32 are scientific research officers (24 Ph.Ds)

Field Stations: 1 (Lizard Island Research Station, Great Barrier Reef, North Queensland)

Principal fields of activity:

Systematics (zoology), anthropology, geology and ecology.

Special facilities: Zoological collections exceed 15 million specimens. Computerized vertebrate data base.

Publications and services: Research results are published in an annual report and in magazines and scientific papers, and are disseminated through research conferences and seminars. Publications include the Records of the Australian Museum and the quarterly journal "Australian Natural History". The library has a comprehensive collection of 100,000 volumes, microfiche reader/printers and computer search facilities.

Cooperation: The Museum is willing and in a position to develop research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: English.

AUSTRALIA

CSIRO DIVISION OF FOREST RESEARCH
Banks Street
P.O. Box 4008
Yarralumla, A.C.T. 2600

Tel. (062) 818211
Telex: (AA) 62751

Status: A public research organization. Originally founded in 1927 as the Commonwealth Forestry Bureau, it was replaced in 1946 by the Forestry and Timber Bureau, with an increase in research activity. In 1961, a Forestry Research Institute was created within the Forestry and Timber Bureau, and in 1975 this was made part of the Commonwealth Scientific and Industrial Research Organization.

Staff: 91 research and development officers (31 Ph.Ds)
88 technicians
17 other (administrative/secretarial)

Field stations: 5

Principal fields of activity:

Forest operations; harvesting; fire behaviour and control; ecology and eco-physiology; diseases; genetic resources and tree breeding strategy; soils, nutrition and hydrology; modelling and biometrics.

The Division is a major supplier of Australian seed for research purposes. The Australian Development Assistance Bureau provides funding support enabling seed to be supplied to overseas agencies unable to pay for it.

The research activities are conducted in the humid tropical and temperate zones.

Special facilities: A herbarium with 105,000 specimens and a seed stock of Australian species.

Publications and services: Research results are published in an annual report, in occasional divisional reports, in books and scientific journals, and are disseminated through research conferences and seminars. The Division also contributes to the quarterly publication "Australian Forest Research" published by CSIRO. There is a library (20,000 scientific and technical volumes) with microfiche readers; 1,300 subscriptions to international journals.

Cooperation: The Division provides seed to developing countries and gives advice on species and provenance trials. It collaborated with FAO and IUFRO in the establishment and coordination of international provenance trials of selected Eucalyptus and Acacia species. The Division also provides training on request. At present there are trainees from Brazil (Genetic Resources), Burma (Forest Protection) and India (Arid Zone forestry). Information is exchanged with research agencies overseas. The Division is a member of IUFRO.

Official working language: English.

BANGLADESH

FOREST RESEARCH INSTITUTE
P.O. Box 273
Chittagong

Tel. 212164; 211280
Cables: FORESTRES

Status: A national institute conducting research in the fields of forestry and forest products. It was initially established with American technical assistance as a Forest Products Laboratory and expanded through UNDP/FAO project assistance, which developed facilities also for forest management research. The Institute is supervised by the Forest Department of the Ministry of Agriculture (Bano Bhaban Street, Mohakhali, Dhaka, Tel. 605846).

Staff: 83 research officers
545 auxiliary staff

Field stations: 24 research sub-stations

Principal fields of activity:

Forest products: sawmilling and woodworking, seasoning and preservation; mechanical properties of wood, panel products, pulp and paper, forest chemistry.

Silviculture, with particular reference to mangroves, tree improvement, tree breeding, and establishment of seed orchards.

Forest soils. Forest botany. Minor forest products. Forest Pathology. Forest entomology. Wildlife. Forest inventory. Forest management. Forest economics.

Special facilities: All facilities for conducting research in the fields of forest management and forest products are available in the Institute. There is a herbarium (5,000 specimens) and a xylarium (600 local and 1,300 foreign wood species). The laboratory equipment includes large-scale forest products research equipment and standard equipment for forest biological research. There is also a bomb calorimeter.

Publications and services: Research results are published in annual reports and in the Forest Science Journal. Bulletins are published periodically. The library facilities are used by researchers, teachers and students of all educational institutions in Bangladesh. The library has over 6,000 books, 10,000 leaflets, and 320 titles of journals in addition to the 350 journals published by the Institute. It subscribes to allmost all the important journals related to forestry and forest products. The forest science journal "Bano Biggyan Patrika" is published regularly. This journal is very useful to researchers, teachers and students in conducting research. Microfiche readers are available.

Cooperation: The Institute collaborates with all educational institutions in the country and with national research institutes such as the Bangladesh Agricultural Research Council, the Bangladesh Rice Research Institute, the Bangladesh Agricultural Research Institute and the Bangladesh Agricultural Colleges. It has international links with research organizations related with agriculture and forestry, such as CAB, CFI, IUFRO, FPRS, TAPPI, etc. The Institute is a member of IUFRO.

Official working languages: Bengali and English.
Official working language for international correspondence: English.

BURMA

FOREST RESEARCH INSTITUTE
Yezin, Pyinmana Township
Union of Burma

Status: A Burma Government institution supported by an FAO Project.

Staff: 30 research officers
4 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Forest management and silviculture; forest botany and tree improvement; forest protection; forest management and yield; entomology, plantation research, tree improvement, pathology; seed research; forest economics; forest fire protection; soil and water conservation; wildlife conservation and recreation; forest inventory and remote sensing.

Wood properties and utilization; forest industrial processes; timber physics and mechanics; wood chemistry; wood anatomy; wood seasoning and preservation; minor forest products; wood-based panel research.

Special facilities: A herbarium (the only active herbarium in the country)

Publications and services: The Institute publishes Research Leaflet Series (64), Technical Documents Series (9), and Extension Pamphlets (5). Its extension services (printing, visual and video) are being developed to meet its own needs and those of the Forest Department. A small library is available.

Cooperation: The Institute collaborates closely with the Forest Department. It is not a member of IUFRO.

Official working languages: Burmese and English
Official working language for international correspondence: English.

CHINA

FORESTRY RESEARCH INSTITUTE
CHINESE ACADEMY OF FORESTRY
Wan Shou Shan
Beijing, People's Republic of China

Tel. 28.1431
Telex: 0161

Status: An independent public institution of the Chinese Academy of Forestry founded in 1952. Work was interrupted during the cultural revolution (1966-1977) but resumed in 1978.

Staff: 197 research and development officers (20 Ph.Ds)
37 technicians
4 other (administrative/secretarial)

Field stations: 4

Principal fields of activity:

Choice of species, silviculture with particular reference to the establishment and management of multipurpose and fuelwood species, forest protection, and growth and yield studies. Socio-economic studies concern the role of fuelwood and timber production in society and human welfare.

Special facilities: A herbarium with 50,000 specimens from a wide area of China, an insect collection of 2,000 specimens, and 300 specimens of tree disease and wood-destroying fungi. Laboratory equipment includes an electron microscope, gas chromatography and a bomb calorimeter.

Publications and services: Research results are published in annual reports and disseminated in research conferences and seminars. Most articles and papers on forestry research are published in the journals "Scientia Silvae Sinicae" and "Forest Science and Technology". The Institute uses the library of the Academy of Forestry. Microfiche readers are available.

Cooperation: The Institute has close formal links with all other forestry research institutes in China and with other institutions concerned with agriculture, soil and water conservation, grazing and animal husbandry, and rural sociology and rural development. The Institute is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

INSTITUTE OF WOOD INDUSTRY
CHINESE ACADEMY OF FORESTRY
Wan Shou Shan
Beijing, People's Republic of China Tel. 28,1421-413

Status: A public institution of the Chinese Academy of Forestry, founded in 1957. The Institute took over the duties of the former Department of Wood Research (1953-1957) of the Central Institute of Forestry.

Staff: 116 research and development professionals (41 Ph.Ds)
58 technicians
13 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood properties, integrated utilization of wood, mainly in technology and equipment of wood-based panel production, wood adhesives, wood drying, wood preservation, modified wood and automation.

Training and extension.

Special facilities: (information not available)

Publications and services: Research results are published in research reports and are disseminated through research seminars.

Cooperation: The Institute exchanges information with other institutions and is willing to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

RESEARCH INSTITUTE OF FOREST ECONOMICS
CHINESE ACADEMY OF FORESTRY
Sheng Gu Zhuang
He Ping Li
Beijing, People's Republic of China
Tel. 46.4616
Cables:

Status: A public institution under the supervision of the Chinese Academy of Forestry, established in 1961 to carry out research on forest economics. Research work was interrupted when the Institute was abolished during the Cultural Revolution (1969-1978), but the Institute was re-established in 1979.

Staff: 24 research officers
34 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Economic problems of developing forest resources; the role of fuelwood plantations in integrated rural development; theory and methodology of economics of silviculture (including output value of forest production). Economics of logging and transportation. Market forecasts for products of wood-based industries, including fuelwood. The forestry system and its reforms, etc. Allocation of wood industry. Management of forestry enterprises.
The activites cover the whole of China.

Special facilities: Equipment for reproducing research reports.

Publications and services: The Institute publishes a bi-monthly journal entitled "Forestry Economics". Research results are published in annual reports and other publications and are disseminated through research conferences. The library contains 158 volumes; 50 subscriptions to international technical journals.

Cooperation: The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

RESEARCH INSTITUTE OF SCIENCTIFIC
AND TECHNOLOGICAL INFORMATION ON FORESTRY
Wan Shou Shan
Beijing, People's Repubic of China
Tel. 281431-701
Telex: 0161

Status: A public institution of the Chinese Academy of Forestry. A Division of Forest Information was established in 1958 and this was expanded to form the Information Institute of Forestry in 1962. In 1971, the latter was merged with the Information Institute of Agriculture and given its present status in 1978.

Staff: 40 research officers (2 Ph.Ds)
3 technicians
13 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Establishment of a national retrieving system for forestry;

Research into major forestry matters concerning the national economy.

Training and extension.

Special facilities: (information not available)

Publications and services: The Institute publishes the following periodicals: Forestry Science and Technology (monthly); Forestry Abstract (bi-monthly); Forest Industry Abstract (bi-monthly). Research results are published in reports circulated internally.

Cooperation: (information not available)

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

SICHUAN RESEARCH INSTITUTE OF FORESTRY
344, Jinhua Street
Chengdu, People's Republic of China Tel. 31705

Status: An integrated public institution under the jurisdiction of the Sichuan Provincial Department of Forestry, created in 1959 by the amalgamation of the former Provincial Forest Experimental Farm, Southwest Forest Research Division of the Central Forest Research Institute,with the Chengdu Vegetable Tanning Material Laboratory of the Ministry of Forest Industry. The Institute covers all aspects of forestry, from silviculture to forest products utilization.

Staff: 123 research and development professionals (1 Ph.D)
169 technicians
60 other (administrative|secretarial)

Field stations: 4

Principal fields of activity:

Silviculture, forest management, forest ecology, forest tree breeding, forest pest and disease control, forest plant systematics, cash forest, forest chemistry, wood processing and forest engineering.

Special facilities: A herbarium with 100,000 specimens, a xylarium with 15,000 specimens, and a collection of about 20,000 forest pest and disease specimens, as well as some analytic instruments such as a liquid gas chromatograph and an atomic absorption spectrophotometer, etc.

Publications and services: Research results are published in annual reports and in the quarterly journal "Sichuan Science and Technology of Forestry", and are disseminated through conferences and seminars. The library has more than 60,000 books and subscribes to thousands of international technical journals.

Cooperation: The Institute exchanges information with other research organizations in China and is willing and in a position to strengthen its research links with other countries. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

SUBTROPICAL FORESTRY RESEARCH INSTITUTE
CHINESE ACADEMY OF FORESTRY
Fuyang, Zhejiang
People's Republic of China
Tel. 2553
Telex: 0120

Status: A public institution established in 1964 as Subtropical Forestry Research Station under the direct supervision of the Chinese Academy of Forestry. It was renamed Subtropical Forestry Research Institute in 1978.

Staff: 80 research officers and 6 professional development staff
51 technicians
47 other (administrative/secretarial)

Field stations: 5

Principal fields of activity:

Basic and applied research on subtropical forests. Research is both short-term and long-term to provide an up-to-date scientific and technological basis for promoting the production of high quality timber. Applied research includes a study of insect and fungal diseases and the economics of production management. Other activities include training.

Special facilities: A xylarium with 1,500 specimens, an insect collection of 27,000 specimens, and a collection of 3,000 pathological specimens.

Publications and services: The Institute issues the quarterly "Journal of Subtropical Forest Science and Technology" which has a restricted circulation. Research results are published in annual reports and disseminated through research conferences and seminars. It maintains a library with 12,729 scientific and technical volumes; 104 subscriptions to international technical journals.

Cooperation: The Institute has formal international links with several countries (notably Sweden and Italy) for the training of research staff; with Sweden, Japan and U.S.A. for exchange of information; and with the International Development Research Centre, Ottawa, Canada, for financial assistance in the Bamboo Research Project. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

TROPICAL FORESTRY INSTITUTE
RESEARCH INSTITUTE OF FORESTRY
CHINESE ACADEMY OF FORESTRY
Long Dong Street
Guangzhou, People's Republic of China

Tel. 773056-353
Telex: 4163

Status: A public institute of the Chinese Academy of Forestry. Founded in 1963, it was originally a research station located in Jian Feng, Hainan Island. The Institute moved to the present site in 1981, and the original research station in Jian Feng became an experimental station of the Institute.

Staff: 81 research officers
53 technicians and technical workers
18 other (administrative|secretarial)

Field stations: 3, plus experimental sites in Guangxi, Yunan and Fujian Province/Region.

Principal fields of activity:

Selection, breeding and propagation, silviculture, introduction and domestication, physiology and biochemistry of seed and seedlings, diseases and pests of major valuable and fast-growing tree species in the tropics and southern sub-tropics and their control.

Tropical forest resources and their utilization, tropical forest ecology, silviculture of palm rattan and energy plantations, management of forest land, and biological fertilization.

Special facilities: Computers, spectrophotometers, projectors, electronic balances, equipment for the measurement of leaf area, for testing wood properties, for analyses of soil properties, for the separation and culture of micro-organisms, and for physiological and biochemical studies.

Publications and services: Research results are published in the Institute's quarterly "Tropical Forestry Science and Technology" (with English abstract) and in other national and international magazines, and are disseminated through national and international conferences and seminars. The Institute is also involved in training and provides consultation services. Samples of plants, timber and insects, techniques of wood anti-putrefaction and utilization, and seed storing techniques and seed exchanges. The Institute has a small library.

Cooperation: The Institute exchanges information in many fields of scientific research with numerous national institutions and also with international organizations such as the International Development Research Center in Canada, the Australian Center of International Agriculture Research, and FAO. The Institute is willing to expand such collaboration. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

FOREST PRODUCTS RESEARCH INSTITUTE OF HEILONGJIANG PROVINCE
9, Haping Road
Harbin, Heilongjiang Province
People's Republic of China
Tel. 54547

Status: An independent institute supervised by the Forest Research Academy of Heilongjiang Province. It was founded in 1960 to specialize in forest products.

Staff: 64 research and development officers
28 technicians
20 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Wood properties, integrated utilization of wood, sawmill equipment and technology research, wood-based panel research, wood products, laminated wood, wood-drying.

Training and extension.

Special facilities: (information not available)

Publications and services: Research results are published in research reports and disseminated through research seminars. The library contains 10,000 technical books in Chinese, 3,000 foreign technical books, 50 Chinese technical journals, 50 foreign technical journals and 1,000 other material.

Cooperation: The Institute exchanges information with other national institutions. Research is now supported by the Japanese International Cooperation Agency (JICA) in the form of personnel training and equipment supplies. The Institute maintains close ties with Japanese institutes and universities. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

INSTITUTE OF DESERT RESEARCH
ACADEMIA SINICA
14, Donggang West Road
Lanzhou, Gansu
People's Republic of China

Tel. 26726
Cables: 3097 LANZHOU

Status: The Institute was established in 1978 to conduct and disseminate integrated and comprehensive research on deserts and desertification, in fields such as geography, geomorphology, pedology, geobotany, forestry, agriculture and animal husbandry, in accordance with national requirements for economic development.

Staff: 160 scientific and technical staff.

Field stations: 3

Principal fields of activity:

Fundamental desert studies, basic data collection, study of the dynamics of desert research on an international basis, and information analysis.
The three main projects are:
- desertification processes, trend forecasting and rehabilitation;
- principles and techniques of sand stabilization; and
- rational resource use and development.

Special facilities: A wind tunnel and a test section 14.7 mx 1.0m x 0.6m and several large laboratories. There are smaller laboratories and ancillary facilities at the Shapotou and Linze field stations.

Publications and services: The Institute publishes two quarterly scientific journals, the Journal of Desert Research and World Desert Studies. It also publishes occasional collections of papers as Mem. Inst. Desert Research, Academica Sinica. These publications are in Chinese, with abstracts in English. The library contains about 30,000 books and a large collection of scientific reports, periodicals and journals, bulletins and pamphlets, reprints, etc., on desert studies and arid zone research and development.

Cooperation: The Institute has been entrusted by UNEP with the conduct of three international seminars on desertification control; in conjunction with ESCAP, it organized a study tour on arid land management in China. In 1984, the Institute hosted three international conferences: the UNEP Seminar, a US-China conference, and a MAB (Man and the Biosphere Programme) conference. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

DEPARTMENT OF FORESTRY
NANJING TECHNOLOGICAL COLLEGE OF FOREST PRODUCTS
Shao Shan Road
Nanjing 210037, Jiangsu
People's Republic of China

Tel. 43161/2/3
Telex: 2651

Status: A university department within the Nanjing Technological College of Forest Products. The Department of Forestry was established in 1925 as a teaching department and was gradually expanded to cover research work in forest science. A major expansion took place in 1952, and facilities now consist of 14 laboratories with 16 teaching and research groups.

Staff: 67 professional staff (15 Ph.Ds)
20 technicians
10 other (administrative/secretarial)

Field stations: 4

Principal fields of activity:

Survey and management of forest resources, including fuelwood and the effect of production on the environment.
Physio-ecological studies of the major bamboo, conifer and hardwood species.
Site studies, including the effect of repeated cropping on the soil.
Genetic studies and tree improvement with several important species.
Ecology and silviculture of fuelwood, timber and other specialized plantations.
Social studies and economic analyses of plantations in integrated rural development programmes.
Biological control of forest insects and diseases.

Special facilities: A herbarium (80,000 specimens) and a xylarium (2,000 specimens) with full-time curators. Specialized research equipment includes electron microscopy, gas chromatography, bomb calorimetry, etc.

Publications and services: The Department publishes the Nanjing Technological College Forest Products Journal (seasonal), "Bamboo Research" (half-yearly), the Journal of Ecology (seasonal), and "Ecology" (seasonal). Research results are published in various publications and are disseminated through research conferences and seminars. The Department of Forestry has a library (900 volumes) with microfiche readers; suscriptions to 300 international periodicals.

Cooperation: The Department maintains formal links with the Chinese Academy of Forestry; the Institute of Forestry and Pedology, Academica Sinica; the Institute of Subtropical Forestry; the Jiangsu Institute of Forestry; the Fujian Institute of Forestry; and the Hunan Institute of Forestry. International links with the Universities of Idaho, Mich., and of British Columbia, and with the Federal Research Institute of Forestry and Forest Products, Federal Republic of Germany (exchange of staff and information). The Department is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

LAC RESEARCH INSTITUTE
CHINESE ACADEMY OF FORESTRY
Shao Shan Road
Nanjing, Jiangsu
People's Republic of China

Tel.
Cables:

Status: A public institution founded in 1962, now an integral part of the Chinese Academy of Forestry.

Staff: 50 research officers (1 Ph.D)
17 technicians
26 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Research into all aspects of the biology and production of lac, mainly in the sub-tropical and mountainous zones.

Special facilities: A herbarium (500 specimens) and a xylarium (1,500 specimens).

Publications and services: Research results are published in various publications and in "Current Status of Lac Research", and are disseminated through research conferences and seminars. There is a library (10,000 volumes) with microfiche readers; 100 subscriptions to international technical journals.

Cooperation: (information not available)

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

RESEARCH INSTITUTE OF CHEMICAL PROCESSING
AND INDUSTRIAL UTILIZATION OF FOREST PRODUCTS
CHINESE ACADEMY OF FORESTRY
Shao Shan Road
Nanjing, Jiangsu
People's Republic of China

Tel. 45131; 45133
Telex: 0948

Status: An independent public organization of the Chinese Academy of Forestry. The Institute was formed by the merger of two former laboratories (Beijing and Shanghai) in 1960 and is now a national research centre. It is supervised by the Ministry of Forestry.

Staff: 120 research officers and 60 development officers
75 technicians
48 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Chemical processing and utilization of forest products, such as preparation of naval stores, tannin extracts, shellac, wood hydrolysis, wood pyrolysis; fuelwood and wood-based energy research; preparation of adhesives; chemical engineering, including design of equipment; chemistry of natural products.

Special facilities: A xylarium (100 wood and bamboo specimens) with a full-time curator. Laboratory facilities include gas chromatography, a bomb calorimeter and many other items.

Publications and services: The Institute publishes two serial publications: The "Bulletin of Forest Chemical Science and Technology", started in 1981, is published monthly for internal circulation only; and the journal "Chemistry and Industry of Forest Products" is published quarterly, with English abstracts for public distribution. This journal was also started in 1981. Research results are published in various publications and are disseminated through research conferences and seminars. The Institute maintains a library (36,071 volumes) with microfiche readers; 200 subscriptions to international technical journals.

Cooperation: The Institute maintains links with several foreign institutes, including universities in Sweden and the U.S.A., and is willing and in a position to strengthen research links with institutions in the U.S.A., Japan, Germany and the United Kingdom. Research assistance is provided by the International Research Development Centre, Ottawa, Canada, and UNDP/FAO. The Institute is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

THE FOREST RESEARCH INSTITUTE
OF GUANGXI ZHUANG AUTONOMOUS REGION
Yong-Wu Road, San Tang
Nanning, Guangxi Autonomous Region
People's Republic of China
Tel. 4050
Cables:

Status: An independent public institution supervised by the Forest Bureau of Guangxi (Qixing Road, Nanning, Tel. 5841). The Institute was founded in 1956 and by 1978 it had 9 research departments.

Staff: 133 research professionals
21 technicians
32 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Choice of species, tree improvement, silviculture and management of timber and fuelwood species.

Forest protection, forest physiology and ecology.

Forest utilization and forest mechanization.

In the research activities, priority is given to afforestation in the timber and fuel-deficit mountainous areas of Guangxi.

Special facilities: A herbarium (10,000 specimens) and a xylarium (7,000 specimens) with a full-time curator. Special equipment includes a C.H.O.N.S. elemental analyser and gas chromotography.

Publications and services: Research results are published in annual reports and in the quarterly journal "Forest Scientific and Technical Informations of Guangxi", and are disseminated through research conferences, seminars and colloquia as well as on-the-spot meetings. The Institute maintains a library with 18,000 volumes of scientific and technical books and 16,000 copies of scientific and technical reports and reprints. It subscribes to 70 international technical journals.

Cooperation: The Institute has close links with other national institutions. International cooperation includes a joint project with the Plant and Soil Nutrition Laboratory of Australia for raising Eucalyptus spp. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

SHANGHAI WOOD INDUSTRY RESEARCH INSTITUTE
667, Zhongshan Lu (West)
200051 Shanghai
People's Republic of China

Tel. 523125
Cables: 0523 SHANGHAI

Status: A public institution founded in 1978, initially established in 1956 as a laboratory of Shanghai Wood Industry Corporation.

Staff: 27 research officers
41 technicians
12 others

Field stations: None

Principal fields of activity:

Wood properties, research in technology of wood-based panel production, equipment design, energy saving, wood adhesives, chemical analysis and physical test of production, information services.

Special facilities: The laboratory equipment includes a universal testing machine, a tensile strength testing machine, a gas chromatograph, a high pressure liquid chromatograph, etc.

Publications and services: Research results are published in annual reports and are disseminated through research seminars. There is a library with over 10,000 scientific and technical volumes; nearly 65 subscriptions to international journals.

Cooperation: The Institute exchanges information with other institutions and is willing to strengthen international cooperation. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

FOREST SCIENCE AND RESEARCH INSTITUTE OF HUBEI PROVINCE
Wuchang Jioufeng
People's Republic of China Tel. 70488

Status: The Institute is under the Ministry of Forestry of the People's Republic of China.

Staff: 113 research officers (4 of the highest level)
207 other (36 administrative, 121 workers and 50 temporary workers)

Field stations: 50 field plots.

Principal fields of activity:

Selection and breeding of new varieties of forest trees.
Plantation management.
Pest and disease control.
Forest products processing.
Information and extension.
Use of small machinery in the field.

Special facilities: A greenhouse with air conditioning (air humidity and irrigation programming), as well as a stereo zoom microscope, an oil content meter (Fosslet), a gas chromatograph, an automatic nitrogen/carbon analyser, a UV/VL spectrophotometer, and an atomic absorption spectrophotometer.

Publications and services: The Information and Documentation Department of the Institute publishes "Forest Science and Research of Hubei Province" (quarterly) and "Forest Science and Research Information (a monthly booklet). The library has 10,261 scientific volumes, 9,899 scientific periodicals, and 10,020 scientific and research documents.

Cooperation: Project GCP/PRC/002/ITA - "Olive Production Development in the People's Republic of China", a China/FAO project (donor government:Italy). The Institute is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

THE RESEARCH INSTITUTE OF FOREST SCIENCE OF SHAANXI PROVINCE
Yangling Station, Shaanxi Province
People's Republic of China

Status: A forestry research institute founded in 1958 as "Forestry Research Institute of Shaanxi Province". In 1982 it became "Research Institute of Forest Science of Shaanxi Province". It is now supervised by the Forest Service of Shaanxi Province.

Staff: 99 research officers (including 1 associate research fellow)
58 workers
3 other (administrative cadres)

Field stations: 3

Principal fields of activity:

Silviculture, forest management, tree breeding, forest utilization, forest protection, and information on forestry science and technology.

Special facilities: A herbarium with 30,000 specimens, and an insect collection of 100,000 specimens.

Publications and services: The Institute edits and publishes the journals "Forest Science and Technology of Shaanxi" (quarterly) and "Recent Development in Forest Science and Technology" (irregular issues). The library has over 30,000 scientific and technical books and 8,800 papers giving information on forestry; 400 subscriptions to national and international technical journals and magazines.

Cooperation: The Institute has cooperative links with over 1,100 production and research units in 29 provinces, cities and autonomous regions in China, exchanging information and professional work. It is not a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

CHINA

FUELWOOD RESEARCH SECTION
CENTRAL SOUTH COLLEGE OF FORESTRY
Zhuzhou, Hunan
People's Republic of China

Tel.
Cables:

Status: The Fuelwood Research Section is affiliated to the Central South College of Forestry and is under the supervision of the Scientific Research Division and Forestry Department of the Central South College of Forestry which, in turn, is a affiliated to the Ministry of Forestry. The Section was established in 1981 to specialize in fuelwood production and use.

Staff: 7 research and development professionals (1 Ph.D)
3 technicians
Supporting services are provided by the Central South College of Forestry.

Field stations: 4

Principal fields of activity:

Choice of fuelwood species, site studies, silviculture, yield and management studies of fuelwood species.

Socio-economic studies of fuelwood requirements and production under various management regimes.

Special facilities: Shared with the Central South College of Forestry. They include a herbarium (25,000 specimens) and a xylarium (1,000 specimens). Equipment includes an atomic absorption spectrophotometer and a bomb calorimeter.

Publications and services: The "Journal of Central South College of Forestry" is published twice a year. Research results are published in annual reports and disseminated through research seminars. The Section uses the library of the College which contains more than 200,000 scientific and technical volumes and subscribes to nearly 100 international journals.

Cooperation: The Fuelwood Research Section has established links with the EEC/FAO Agriculture and Timber Division for the exchange of materials and publications on wood energy. The College is a member of IUFRO.

Official working language: Chinese
Official working language for international correspondence: English.

FIJI

SILVICULTURAL RESEARCH DIVISION
DEPARTMENT OF FORESTRY
MINISTRY OF FORESTS
P.O. Box 2218 Tel. 22677
Suva Cables:

Status: Integral part of the Department of Forestry, Ministry of Forests. A forestry research officer was first appointed in 1946. A Pine Research Unit was established in 1977 to work specifically with the Fiji Pine Commission on pine tree improvement.

Staff: 2 research officers (1 Ph.D)
12 technicians
3 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Natural regeneration and growth studies in the natural forest. Plantation silviculture and management of exotic and indigenous hardwoods. Seed collection, storage and distribution. Silviculture and genetic improvement of Pinus caribaea. The Division also holds training courses.

Special facilities: Equipment for soil analysis.

Publications and services: Research results are published in annual reports, the "Fiji Pine Research Papers" and in miscellaneous silvicultural research papers. The Division maintains a library (3,500 volumes) with microfiche readers; 15 subscriptions to international technical journals.

Cooperation: The Division has close links with the Australian and New Zealand Forest Services which give assistance in training and provide advisory services. Close liaison is also maintained with the Commonwealth Forestry Institute, Oxford, U.K. It is a member of IUFRO.

Official working language: English.

FIJI

UTILISATION DIVISION
DEPARTMENT OF FORESTRY
MINISTRY OF FORESTS
P.O. Box 2218
Suva

Tel. 393611

Status: A technical division within the Department of Forestry, established on its present site in 1971.

Staff:
1 professional researcher (timber research/promotion)
1 adviser (forest industries)
11 sub-professional researchers (timber research/promotion)
4 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Assessment of properties and uses of indigenous and exotic species; timber promotion in general; trade assistance and provision of various inspectorate and technical information services.

Special facilities: Basic milling, treatment, seasoning and woodworking facilities only. Display room.

Publications and services: Research results are published in the leaflet series "Fiji Timbers and their Uses" (free issue), initiated in 1966 (79 issues to date). "Timbers of Fiji", published in 1982, consolidates much of this information. The Division maintains a small technical library, open to the trade and the public, with some 10,000 items. Photographic records are also available.

Cooperation: The Division's earliest contacts were with CSIRO, Australia - the former Division of Forest Products and later the Divisions of Building Research, Applied Chemistry and Chemical Technology. Close links are currently maintained with the Forest Research Institute, New Zealand. Assistance has also been rendered by the Tropical Development and Research Institute and by the Commonwealth Forestry Institute, U.K. The Division is a member of IUFRO.

Official working language: English.

INDIA

FOREST RESEARCH AND UTILISATION CIRCLE
18th Cross Malleshwaram
Bangalore 560003, Karnataka

Tel. 365593
Cables: CHIEFCON

Status: A research office/establishment with field stations and laboratories to conduct silvicultural research only.

Staff: 21 officers (executive)
4 officers (administrative)
1 officer (coordinating)
2 laboratory technicians and 50 field staff

Field stations: 12

Principal fields of activity:

Silvicultural research: provenance trials, multi-locational species trials, tree improvement, and nursery trials.

Special facilities: Two soil and plant analysis laboratories and mist chambers in field stations.

Publications and services: A monthly Silva's Newsletter to disseminate research results, techniques, seed information, etc., and a quarterly journal "My Forest" which also publishes research results. An annual research report is also produced.

Cooperation: The Department collaborates closely with the University of Agricultural Sciences in Bangalore, and with the Forest Research Institute and its branches. It is a member of IUFRO.

Official working languages: English and Kannada.

INDIA

INDIAN PLYWOOD INDUSTRIES RESEARCH INSTITUTE
Tumkur Road
Post Bag 2273
Bangalore 560022, Karnataka

Tel. 384231; 384232; 284233
Cables: IPIRI

Status: A cooperative research institute sponsored by the Government of India and the national plywood industry.

Staff: 19 scientists
6 technologists
27 technicians
55 others

Field stations: 2

Principal fields of activity:

Development of new adhesive formulations and improvement of known formulations.
Studies on the physical and mechanical properties of wood, plywood and other wood-based panels.
Determination of the structure and properties of timber species suitable for plywood.
Mycological and entomological studies to evolve effective methods for the protection of wood raw material and panel products.
Studies on the peeling characteristics of different timber species for plywood manufacture.
Development of engineering applications of plywood and other lignocellulosic panels.
Implementation of quality control methods and investigations to maximize the yield of available wood raw material by reducing wastage.
Organization of plywood training courses for the supervisory staff of factories.
Dissemination of information through publications and demonstration of the processes developed by the Institute for implementation in the industry through extension services.

Special facilities: Testing of wood, plywood and other wood-based panel materials for conformity with Indian Standard Specifications.

Publications and services: The Institute publishes the research results in the form of research reports. The interim results are published as technical notes. The following publications for restricted circulation are issued regularly: research reports, technical notes and a Technical Information Service Bulletin (monthly). An extension service is provided to members of the Institute through visits to mills, demonstration and floor-level training. There is a library with good reference and documentation facilities in wood science and technology.

Cooperation: In cooperation with UNDP, a training centre for mechanical wood industries is being set up, and technical cooperation among developing countries is one of the objectives of this centre. The Institute is a member of IUFRO.

Official working language: English.

INDIA

CENTRAL PULP AND PAPER RESEARCH INSTITUTE
111/II, Vasant Vihar
Dehra Dun 248011, U.P.

Tel. 26423
Cables: CEPPRI

Status: An autonomous organization under the administrative control of the Ministry of Industry and Company Affairs, Govt. of India, established in 1980.

Staff: 26 scientists
51 technicians
58 managerial personnel.

Field stations: 1

Principal fields of activity:

The Institute carries out research and development work connected with the pulp and paper industry, promotes cooperative research programmes with other research organizations having relevants skills and activities, provides a central technical information services, and provides training facilities and assistance in training courses.

Special facilities: A sophisticated pilot plant for carrying out research and development work on TMP, CTMP and other high yield and chemical pulping processes.

Publications and services: The research and development activities are disseminated to the mills and R&D institutes through research reports and research publications in reputed pulp and paper journals. The Institute also publishes a quarterly news bulletin which gives information on its activities. With its modern library and documentation facilities, the Institute provides information, reprints, reports, etc. from available literature in various disciplines of the pulp and paper industry. It subscribes to about 40 scientific/technical periodicals from India and abroad in the pulp and paper industry field.

Cooperation: The Institute exchanges research information with research agencies overseas. It is not a member of IUFRO.

Official working languages: English and Hindi.
Official working langue for international correspondence: English.

INDIA

FOREST RESEARCH INSTITUTE AND COLLEGES
P.O. New Forest
Dehra Dun 248 006, U.P.

Tel. 27021 - 27028
Cables: FORESEARCH
Telex: 595-258

Status: A public institution forming an integral unit of the Department of Environment, Forests and Wildlife (Krishi Bhavan, New Delhi 110 001, Tel. 288911). The Institute started as a Rangers' School in 1878, and formal research began in 1906. As the activities expanded, an area of 490 ha. was acquired, and the development of the present campus started in 1929. Research supervisory bodies are the National Scientific and Research Council; the University Research Council; the Ministry of Higher Education, Science and Technology; the Department of Environment, Forests and Wildlife; and the Forest Service.

Staff: 647 research and development officers (60 Ph.Ds)
641 technicians
410 other (administrative|secretarial)

Field stations: 12

Principal fields of activity:

The Institute carries out fundamental and applied research on all aspects of forestry, forest biology and forest products. It is also responsible for the training of forest officers and forest rangers for the country.

Special facilities: A herbarium (330,000 plant specimens and 10,000 specimens of fungi) and a xylarium (18,685 wood specimens), with a full-time curator. These facilities are available for use by outsiders. Six museums are also open for interested persons during working hours. Other facilities include growth chambers and sophisticated equipment such as gas liquid chromatography, electron microscope, bomb calorimeter, atomic absorption and infrared and ultra-violet spectrophotometers, etc. A National Forest Computer Centre was established in 1983. This also caters for the special computer application needs of State Forest Departments and other forestry institutions in the country.

Publications and services: Research results are published in annual reports and other publications such as Indian Forest Records, Indian Forest Bulletins, Indian Forest Leaflets, the Annual News Bulletin, books, monographs, manuals and bibliographies, and technical notes, information series and extension series. They are disseminated through research conferences, seminars and colloquia, as well as films, brochures and pamphlets. The Institute maintains a library (125,000 volumes) with microfilm readers; it subscribes to 286 international journals.

Cooperation: The Institute has formal cooperative links with other national institutions concerned with agriculture, soil and water conservation, animal husbandry, rural sociology and rural development. There is a long tradition of international cooperation with multilateral and bilateral organizations in a wide range of research and training activities. The Institute is a member of IUFRO.

Official working languages: English and Hindi
Official working language for international correspondence: English.

INDIA

STATE FOREST RESEARCH INSTITUTE
Polipather, Gwarighat Road
Jabalpur 482008, Madhya Pradesh

Tel. 25540
Cables: VANUSANDHAN

Status: The Institute is under the Madhya Pradesh State Forest Department and is financed by the State Government.

Staff:
1 Director (rank of Conservator of Forests)
2 Deputy Directors
8 Assistant Conservator of Forests
4 Scientists
28 Forest Rangers
9 Deputy Rangers
7 Foresters
41 Forest Guards (for the execution of research strategies)

Field stations: 8 (located in various bioclimatic zones of the State)

Principal fields of activity:

Applied research in forestry in the fields of silviculture, forest influences, mensuration, forest utilization, forest botany and genetics.

Special facilities: A seed testing laboratory, a soil testing laboratory, an auditorium and conference hall for meetings, a forest nursery, a teak seed orchard, and a botanical garden.

Publications and services: The Institute publishes a quarterly newsletter (Vaniki Sandesh) and an annual research report. A number of technical bulletins have also been published. Technical know-how is disseminated to field foresters in the State. In addition, the "Journal of Tropical Forestry" is published quarterly by the Society of Tropical Forestry Scientists, located in this campus. There is a technical library on forestry and allied subjects. Books and periodicals are available to facilitate forestry research. The library subscribes to most forestry research journals published in India and abroad.

Cooperation: Exchange of technical information with other research institutes and universities on various aspects of forestry. A DANIDA-INDIA project has provided asistance in the form of equipment for establishing a seed testing and certification laboratory. The Institute is not a member of IUFRO.

Official working language: English.

INDIA

DEPARTMENT OF FORESTRY AND NATURAL RESOURCES
PUNJAB AGRICULTURAL UNIVERSITY
Ludhiana 141004, Punjab

Tel. 22960, Ext. 380
Cables: AGRIVARSITY LUDHIANA

Status: The Department is an independent university institution. The Punjab Agricultural University was founded in 1962 and there are now five Colleges: Agriculture, Agricultural Engineering, Veterinary Sciences, Home Science, and Basic Sciences and Humanities. A Department of Forestry was established within the College of Agriculture in 1978. A 4-year degree programme in B.S. (Forestry) was introduced in 1985.

Staff: 10 research and faculty staff (6 Ph.Ds)
2 technicians
6 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Agroforestry and silviculture, with special reference to biomass production for fuel (Eucalyptus, Poplar, Teak and Leucaena),tree breeding and tree improvement.
Biology of tree diseases.
Wood anatomy.
Wildlife biology and tree/bird associations.
Economics of fuelwood production.

Special facilities: Microscopes, incubator, oven, autoclave and microtome.

Publications and services: Research results are published in annual reports and scientific journals and are disseminated through research conferences and colloquia. There are good library facilities with microfiche readers.

Cooperation: The Department collaborates closely with the Forest Research Institute and Colleges, Dehra Dun, the Punjab State Forest Service, with forestry schools and institutions in the U.S.A., and with the Oxford Forestry Institute and the Tropical Products Institute, London. It is not a member of IUFRO.

Official working language: English.

INDIA

FORESTRY RESEARCH STATION
TAMIL NADU AGRICULTURAL UNIVERSITY
Kothagiri Road
Mettupalayam 643001, Tamil Nadu

Tel.
Cables:

Status: The Forestry Research Station is an integral part of the Tamil Nadu Agricultural University. It was initially established in 1973 as a Department of Forestry Science to undertake basic research, teaching and extension at the Tamil Nadu University. The Department was designated as Forestry Research Station in 1982 when the entire unit was moved to Mettupalayam. The Station is supervised by the University Research Council, Coimbatore.

Staff: 8 research officers (4 Ph.Ds)
5 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Tree breeding, assemblage of germplasm, vegetative propagation, maintenance and evaluation of provenances.

Silviculture, nursery technology and agroforestry.

Teaching: training of extension workers and farmers in local communities.

(Extension through publication of bulletins, leaflets, forecasts and broadcasts.)

Special facilities: Equipment for gas chromatography and electron microscopy.

Publications and services: Research results are published in annual reports, articles in the monthly Madras Agricultural Journal, periodic bulletins, leaflets and newsletters, and are disseminated through research conferences and seminars. Radio broadcasts are also used in the extension programme of the Station.

Cooperation: The Forestry Research Station maintains international links for the exchange of research materials. It is not a member of IUFRO.

Official working language: English.

INDIA

KERALA FOREST RESEARCH INSTITUTE
Peechi 680653, Kerala State

Tel. 22375
Cables: KERALA INDIA

Status: An autonomous public institution supervised by the State Committee on Science and Technology, Government of Kerala, Trivandrum. The Institute was first registered as a scientific society in 1975 as part of the science and technology policy of the Government of Kerala. It moved to its present premises in 1978.

Staff: 59 research officers (17 Ph.Ds)
13 technicians
41 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

There are 13 divisions dealing with all aspects of forestry, wildlife and wood science, including botany, ecology, entomoloy, pathology, silviculture and genetics, soils science and statistics.

Special facilities: A herbarium with 5,000 specimens, and a xylarium with 1,155 specimens, specializing in species of the Kerala area. Equipment includes a microtome (minotome-cryostat), a microscope (Leitz dialux-20 with Leitz vario-orthomat), a Wild stereomicroscope with photoautomat, and an atomic absorption spectrophotometer.

Publications and services: Research results are published in annual reports and in research reports. The Institute has a library (12,000 volumes) with microfiche readers. It subscribes to 240 technical journals.

Cooperation: The Institute has undertaken joint research on the Dipterocarps of South Asia, sponsored by FAO. Case studies have also been carried out with FAO contracts on rural institutions and on multiple-use forest management. The Institute is a member of IUFRO.

Official working language: English.

INDONESIA

FAKULTAS KEHUTANAN
INSTITUT PERTANIAN BOGOR
(Faculty of Forestry,
Bogor Agricultural University)
P.O. Box 69 Tel. 0251/21567
Bogor Cables: FAHUTAN BOGOR

Status: The Faculty of Forestry is an integral part of the Bogor Agricultural University. It was founded in 1963, but the educational programme was initiated already in 1940 as a branch of the University of Indonesia. It consists of three departments: Forest Management, Forest Products Technology, and Forest Resource Conservation.

Staff: 78 academic staff members (21 Ph.Ds)
19 technicians
68 (administrative)

Field stations: A 350 ha. school forest at Gunung Walata, 40 km away from the campus.

Principal fields of activity:

Research and public service in general forestry, and instruction. Silvicultural methods, wood technology, wood engineering, agroforestry, and forest management.

Special facilities: A school forest, a small arboretum and a xylarium.

Publications and services: Research results are published in annual and occasional reports and research notes, and are disseminated through seminars. The Faculty maintains a branch library and has access to the Central Library of the University.

Cooperation: The Faculty has cooperative links with many national and international research agencies, particularly with the Forest Research and Development Centre, the Forest Products Research and Development Centre, and BIOTROP. It is a member of IUFRO.

Official working language: Bahasa Indonesia
Official working language for international correspondence: English.

INDONESIA

PUSAT PENELITIAN DAN PENGEMBANGAN HUTAN
(Forest Research and Development Centre - FRDC)
Jl. Gunung Batu 5
P.O. Box 66
Bogor 16001

Tel. (0251) 24032; 25111
Cables: PUSLITHUT

Status: A public institution forming an integral part of the Agency for Forestry Research and Development (Forestry Department). Forestry research began in Indonesia in 1913 with the inauguration of the Bosbouw Proefstation. In 1979, the organization was integrated with the Central Research Institute for Forestry under the Agency for Agricultural Research and Development. In 1983, the Institute was designated as the Forest Research and Development Centre under the supervision of the Agency for Forestry Research and Development of the Ministry of Forestry.

Staff: 59 research officers
192 technicians
26 other (administration/secretarial)

Field stations: None

Principal fields of activity:

Ecological studies related to the protection and conservation of forest and nature (wildlife) resources.

Rehabilitation and management of forest resources, including species selection, seed technology, ecology and silviculture, and forest protection.

Utilization of forest resources, with particular reference to forest inventory and botanical studies.

Special facilities: A soil laboratory, a seed laboratory, an insectarium, a herbarium collection, and seed germination.

Publications and services: Research results are published in the Forest Research Bulletin (at irregular intervals) for distribution to forestry institutes and forestry schools in the country and abroad. The exchange of publications is also of great interest. The Centre maintains a library with some 29,000 scientific and technical titles.

Cooperation: Formal cooperative links are maintained with institutes of the Agency for Agricultural Research and Development, with the Indonesian Institute of Sciences, with national universities, and with the Government Forestry Agency. International research links are encouraged. The Centre is a member of IUFRO.

Official working language: Bahasa Indonesia
Official working language for international correspondence: English.

INDONESIA

PUSAT PENELITIAN DAN PENGEMBANGAN HASIL HUTAN
(Forest Products Research and Development Centre)
Jl. Gunung Batu 1
P.O. Box 84 Tel. 24032
Bogor 16001 Cables:

Status: A public institution forming an integral part of the Agency for Forestry Research and Development (Forestry Department). A Forest Products Research Institute was established in 1959 within the Forest Service. In 1974, the Institute became part of the Agency for Agricultural Research and Development, in 1981 it came under the control of the Central Research Institute for Forestry. It was formally established as the Forest Products Research and Development Centre in 1983, under the supervision of the Agency for Forestry Research and Development of the Ministry of Forestry.

Staff: 89 research officers (4 Ph.Ds) and 5 development officers (2 Ph.Ds)
78 technicians
56 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Research and development of wood and other forest products, including forest products biology and preservation, utilization, chemical processing, industrial and domestic use of wood-based energy, and wood derivatives, forest logging and engineering.

Forest economics and forest products marketing; socio-economic studies on fuelwood production and use.

Special facilities: A xylarium (33,706 specimens from the Indonesian area) with a full-time curator. A full range of equipment is available for forest products research, including bomb calorimetry for wood energy studies.

Publications and services: The Centre issues about 30 research reports and communications per year in addition to publishing research results in its annual report and in the proceedings of research seminars. The Centre maintains a library with 778 technical volumes and subscribes to 30 international technical journals.

Cooperation: Formal cooperative links are maintained with institutes of the Agency for Agricultural Research and Development. International links have been developed with the World Bank and with USAID. The Centre is a member of IUFRO.

Official working language: Indonesian
Official working language for international correspondence: English.

INDONESIA

BALAI PENELITIAN KEHUTANAN
(Forestry Research Institute)
Jalan Viyata Yudha
Pematang Siantar, North Sumatra

Status: A national institution under the Agency for Forestry Research and Development of the Ministry of Forestry, established in 1984.

Staff: 19 research officers (1 Ph.D)
9 technicians

Field stations: 1

Principal fields of activity:

Forest biology and ecology, forest pests and diseases, forest fires, silviculture, agroforestry, tree improvement, watershed management, reforestation techniques, ecology of mangrove forests, forest harvesting and economics, wood science, and minor forest products (mainly rattan).

Special facilities: -

Publications and services: Research results are published in a special bulletin entitled "Forestry Research Bulletin" twice a year. About 20 articles are published per year, and further 10 popular articles on forestry sciences are published in the extension leaflet "Komunikasi".

Cooperation: Close cooperation with other government institutions. The Institute also collaborates with the Rubber Research Centre regarding the possible plantation of rattan under rubber trees. It is not a member of IUFRO.

Official working language: Indonesian
Official working language for international correspondence: English.

JAPAN

NIIGATA PREFECTURAL EXPERIMENT STATION
2249-5 Unotoro
Asahi-mura, Iwafe-gun, Niigata
958, Japan
Tel. 025472-1171

Status: A public institution founded in 1952, forming an integral part of the Forestry Section of the Niigata Prefectural Agriculture, Forestry and Fisheries Division. It is managed by a local self-governing body.

Staff: 9 research and development officers
2 technicians
4 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture and tree breeding, mainly of the conifer Sugi; Soil conservation in forests subjected to landslides and heavy snowfall; cultivation of edible fungi; protection of coniferous forests.

The Sation is also involved with training and extension.

Activites are conducted mainly in the temperate zones.

Special facilities: A xylarium with 250 specimens, and four experimental forest plots.

Publications and services: Research results are published in an annual report and in the annual Bulletin of the Niigata Prefectural Forest Experiment Station. There is a library with 9,000 scientific and technical volumes.

Cooperation: (no activities)

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

HOKKAIDO FOREST PRODUCTS RESEARCH INSTITUTE
12, Midorimachi
Asahikawa, Hokkaido
070, Japan
Tel. 0166/51-1171

Status: A public institution of the Hokkaido Government, founded in 1950.

Staff: 85 research officers (32 Ph.Ds)
49 technicians
41 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Studies on improving and extending the use of home-grown timber.

Research and test activites: techniques for manufacturing sawn timber, plywood and laminated timber; wood property research and appraisal of the performance of wood materials; processing techniques for improving resistance to decay and insect attacks, fire-retardant, colour arrangement and discolouration; effective utilization of wood waste; cultivation of edible fungi.

Special facilities: A xylarium with 400 specimens.

Publications and services: Research results are published in an annual report and in the proceedings of research conferences and seminars. Publications include the Journal of the Hokkaido Forest Products Research Institute (monthly); "Rinsanshi Dayori" (monthly); the Annual Report of the Hokkaido Forest Products Research Institute; and irregular reports. The Institute maintains a library with 18,700 scientific and technical volumes; 14,900 subscriptions to international technical journals.

Cooperation: The Institute has some joint research activities with other institutes of the Hokkaido Government and with a private company. It is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

KANAGAWA PREFECTURE FOREST EXPERIMENT STATION
657, Nanasawa
Atsugi-shi, Kanagawa
243-01, Japan

Tel. 0462(48) 0321
Cables:

Status: A public institution founded in 1968.

Staff: 8 research officers
1 development officer
3 technicians
4 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture and tree breeding; forest diseases and pests; environmental conservation; special forest products.

Extension.

Activities are conducted mainly in the temperate zone.

Special facilities: A xylarium with 2,800 specimens.

Publications and services: Research results are published in an annual report and in the annual Bulletin of the Kanagawa Prefecture Forest Experiment Station, and are disseminated through research conferences. The library has 4,800 scientific and technical volumes; 6 subscriptions to international technical journals.

Cooperation: The Station is willing and in a position to develop research links with developing countries.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

HOKKAIDO FOREST EXPERIMENT STATION
Koshunai Street
Bibai
079-01, Japan
Tel. 01266/(3) 4164

Status: Forms part of the Forestry Division of Hokkaido Prefectural Government.

Staff: 48 research officers
34 other (mainly administrative)

Field stations: 3

Principal fields of activity:

Forest management, forest diseases, forest insects and animals, silviculture, tree breeding, soils and fertilizers, forest influences, arboriculture, nature conservation.

Special facilities: A small herbarium and xylarium collection, and a hot-house and exhibition room.

Publications and services: Research results are published in the Bulletin of the Hokkaido Forest Experiment Station and in the annual report of the Station. The publication Kita no Moritsukuri is issued quarterly. The Station also publishes miscellaneous leaflets. The library has 11,000 books and scientific volumes, and some 100 periodicals.

Cooperation: No cooperative activities. The Station is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENTS OF FORESTRY AND FOREST PRODUCTS
FACULTY OF AGRICULTURE
NAGOYA UNIVERSITY
Chikusa, Nagoya
464, Japan

Tel. 052-781-5111
Telex: 4477323

Status: Teaching and research departments of the Faculty of Agriculture of Nagoya University. The University was established in 1908 and the Faculty of Agriculture in 1951. Enrolment in Forestry and Forest Products totals 180 undergraduate and 40 graduate students (M.Sc. and Ph.D candidates).

Staff: 36 teaching and research staff (36 Ph.Ds)
8 technicians
7 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Department of Forestry: silviculture, forest management, forest engineering, soil and water conservation.
Department of Forest Products: wood technology, wood industrial machinery, wood physics, chemical technology of wood, and chemistry of forest products.

Research is conducted in the humid tropical, temperate and mountainous zones and 20 percent of the research programme is devoted to fuelwood and energy activities.

Special facilities: Small herbarium and xylarium collections.

Publications and services: Research results are published in journals and academic publications and are disseminated through research conferences and seminars. The Bulletin of the Nagoya University is issued every 3-5 years. There are no special library facilities.

Cooperation: The University is closely linked with Kasetsart University, Bangkok, Thailand, and with the Lamboga Biologi National Herbarium Bogoriense, Bogor, Indonesia, with regard to training, exchange of information and funding of joint projects. At present, the following are being trained: 1 Thai (erosion control), 1 Indonesian (wood technology), 1 South Korean (forest management), 1 Chinese (wood chemistry). The Departments are willing to strengthen their research links. They are members of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FOREST PRODUCTS
FACULTY OF AGRICULTURE
KYUSHU UNIVERSITY
6-10-1 Hakozaki, Higashi-ku
Fukuoka-shi
812, Japan

Tel. 092-641-1101
Cables:

Status: A university institution. The Faculty of Agriculture of Kyushu University was established in 1919. In 1961, the Department of Forestry was split into two departments, Forestry and Forest Products.

Staff: 18 research officers (15 Ph.Ds)
1 technicians
5 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood science and technology; wood chemistry, including chemistry of wood and polymer chemistry of woody materials.

The activities are conducted mainly in the temperate zone.

Special facilities: A herbarium with 8,000 specimens and a xylarium with 6,000 specimens.

Publications and services: Research results are published in the Journal of the Japanese Wood Research Society, "Japanese Tappi", and the Bulletin of the Kyushu University Forest, and are disseminated through research conferences and seminars. The Library has microfiche readers (other information not available).

Cooperation: The Department offers training facilities to other countries. At present, one trainee from Korea is studying Wood Chemistry and two trainees from China are studying the Industrial Chemistry of Wood. The Department is willing to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DIVISION OF ENVIRONMENTAL SCIENCE
OSAKA AGRICULTURAL RESEARCH CENTER
442 Shakudo
Habikino-shi, Osaka
583, Japan

Tel. 0729-58-6551
Cables:

Status: A public institution of the local agricultural research organization. The Centre was established in 1963 as a research, extension and educational institution for agriculture and livestock breeding. A Forestry Section was added in 1965.

Staff: 4 research officers
1 other (library)

Field stations: None

Principal fields of activity:

Socio-economic research on the natural environment and the interaction of people and trees; silviculture, seed research and pest and diseases; yield studies, and studies of the properties of fuelwood species.

Thirty percent of the research programme is devoted to fuelwood, especially in the temperate zone. Activities also include extension.

Special facilities: (information not available)

Publications and services: Research results are published in an annual report and in the proceedings of research conferences. The Center also publishes research results in the following: the Journal of the Japanese Forestry Society; the Osaka Agricultural Research Center News (monthly); "Agriculture of Osaka" (quarterly); and the Bulletin of the Osaka Agricultural Research Center (annually). The Center maintains a library with 7,500 scientific and technical volumes and microfiche readers; 34 subscriptions to international technical journals.

Cooperation: no activities

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

MIE PREFECTURAL FOREST RESEARCH CENTER
Nihongi Street
Hakusan-cho, Ichishi-gun, Mie Prefecture
515-26, Japan
Tel. 05926/2-0110

Status: A public institution of the Mie Prefectural Office, founded in 1963 as a research extension and educational institution for forestry.

Staff: 7 research officers
5 development officers
5 technicians
6 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture and tree breeding, forest diseases and pests, special forest products; soil conservation.

Extension.

The activities are conducted mainly in the temperate zone.

Special facilities: An experimental forest plot and seed orchards of Cryptomeria japonica, Chamaecyparis obtusa, Pinus thunbergii and Pinus densiflora.

Publications and services: Research results are published in an annual report and in the annual Bulletin of the Mie Prefectural Forest Research Center. Information notes for extension are published by the Center every second month. The library contains 2,628 scientific and technical volumes and 52 technical journals.

Cooperation: The Center exchanges information with a Chinese forestry institute. It is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

SHIZUOKA PREFECTURE FORESTRY EXPERIMENT STATION
Negata 2542-8
Hamakita
434, Japan
Tel. 05392/5-3121

Status: A public institution of the Shizuoka Prefectural Office, founded in 1957.

Staff: 15 research officers (1 Ph.D)
1 development officer
2 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest tree breeding; silviculture; nursery technology; forest soils; environmental greening; cultivation of edible fungi; forest pathology; wildlife management; wood technology and harvesting.

The activites are mainly conducted in the temperate zones and partly in the subalpine zones.

Special facilities: An arboretum (about 600 species) and some 20,000 dried leave specimens.

Publications and services: Research results are published in an annual report and in the Station's bulletin. The Station maintains a library with 2,000 scientific and technical volumes and 50 technical journals.

Cooperation: The Station exchanges information with international institutions and has cooperative links with the Forestry and Forest Products Research Institute in Tsukuba. It is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

AOMORI PREFECTURAL FOREST EXPERIMENT STATION
46-56 Shinmichi
Hiranai-machi, Aomori
039-33, Japan

Telephone:
Cables:

Status: A public institution founded in 1961.

Staff: 10 research officers
6 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forestry.
The Station is also involved in extension.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and in other publications, and are disseminated through research conferences. The library has 5,500 scientific and technical volumes.

Cooperation: There are no links or plans for such links with other international institutions. The Station is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

FORESTRY AND FOREST PRODUCTS RESEARCH INSTITUTE
Tsukuba Norin Kenkyu Danchi-nai
P.O. Box 16
Ibaraki, Tsukuba
305,Japan
Tel. 0298-73|3211

Status: A public institution of the Central Government Forestry Research Organization. The Forestry and Forest Products Research Institute was first established in 1878 as an arboricultural garden. It was moved to its present site in 1978.

Staff: 508 research officers (125 Ph.Ds)
213 other (administrative/secretarial)

Field stations: 7

Principal fields of activity:

Forest management, forest mechanization, silviculture, forest soils, forest protection, forest influences, chemistry of forest products, wood technology and wood utilization. Fuelwood research includes socio-economic aspects, silviculture, industrial research, technology of fuelwood and charcoal, and wood-based derivatives.

Special facilities: A herbarium (24,800 specimens) and a xylarium (700 specimens), as well as a phytotron and image analysing equipment.

Publications and services: Research results are published in annual reports, occasional publications of bulletins of forestry and forest products, and in serial publications such as the Monthly News of FFPRI and the Bulletin of the FFPRI (5-6 issues a year), and are disseminated in research conferences, seminars and symposia. The Institute maintains a library with 112,000 scientific and technical volumes and over 40,000 volumes of technical journals.

Cooperation: The Institute cooperates with the University of the Philippines at Los Baños in joint research and technical cooperation projects. Other formal international links concern training, exchange of information and exchange of staff. The current training programme involves 74 persons from over 27 developing countries. The Institute is willing to strengthen cooperative links in these respects. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

NAGASAKI PREFECTURAL AGRICULTURAL AND FORESTRY EXPERIMENT STATION
3118, Kaizu-cho
Isahaya-shi, Nagasaki
854, Japan
Tel. 09572/6-3330

Status: A public institution of the Nagasaki Prefectural Office, founded in 1961.

Staff: 8 research officers (1 Ph.D)
2 technicians

Field stations: None

Principal fields of activity:

Estimation of growth and yield (mainly of Japanese cypress).
Soil conservation, forest protection of conifers, silviculture, tree breeding and edible fungus.

Special facilities: (information not available)

Publications and services: Research results are published in the Bulletin of the Nagasaki Pref. Agricultural and Forestry Experiment Station, Sect. Forestry. The library has 200 scientific volumes and 150 bulletins.

Cooperation: - The Station is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

FORESTRY BRANCH
TOKYO AGRICULTURAL EXPERIMENT STATION
853 Tokura, Nishitama-gun
Itsukaitch, Tokyo
190-01, Japan

Tel. 0425-96-0218
Cables:

Status: A public institution established in 1931 as a Breeding Station for Wildlife. It expanded in 1939 to include livestock, and in 1949 to include wildfowl. In 1957, a Forestry Section was added to the Station.

Staff: (no information on research officers)
9 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

General forestry of the Tokyo metropolitan area.

Activities are conducted mainly in the temperate and mountainous zones and include training and extension.

Special facilities: (information not available)

Publications and services: Research results are published in an annual report and in an annual bulletin, and are disseminated through research conferences.

Cooperation: The Station is willing to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

TOYAMA WOOD PRODUCTS RESEARCH INSTITUTE
4940 Kurokawashin
Kosugi, Imizi-gun, Toyama
939-03, Japan
Tel. 0766/56-2815

Status: A public institution of the Toyama Prefectural Office, founded in 1969.

Staff: 16 research officers (2 Ph.Ds)
2 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood processing technology, including small-scale processors and generators, and wood preservation.

The activities are carried out mainly in the temperate zone.

Special facilities: A xylarium with 100 specimens.

Publications and services: Research results are published in "Mokuzai To Gijutsu", a quarterly publication, and disseminated through research seminars. The Institute has a library with 2,000 scientific and technical volumes; 15 subscriptions to international technical journals.

Cooperation: The Institute cooperates with the Forest Products Research and Development Institute, College, Laguna, Philippines, with regard to the development of particleboard manufacturing technology. It also exchanges information with other national research agencies and is willing to strengthen research links with developing countries. The Institute is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

OJI INSTITUTE FOR FOREST TREE IMPROVEMENT
OJI PAPER CO. LTD.
90 Yuchi
Kuriyama-cho, Yubari-gun, Hokkaido
069-15, Japan
Tel. 01237/2-0840

Status: A private institution founded in 1956 with one branch station, the Kameyama Breeding Station in Mie Prefecture.

Staff: 9 research scientists (6 Ph.Ds)
11 technical assistants
14 others

Field stations: 1

Principal fields of activity:

Tree breeding, silviculture, site evaluation, ornamental trees and shrubs, biotechnology: cell culture, tissue culture, cell fushion, gene isolation.

Overseas afforestation.

Special facilities: Experimental natural stands for silvicultural research; seed orchard.

Publications and services: Research results are published in a Technical Note and in the Bulletin of the Oji Institute for Forest Tree Improvement. The library contains 3,000 scientific and technical volumes; 50 subscriptions to national and international forestry journals.

Cooperation: No cooperative links. The Institute is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

GIFU PREFECTURE FORESTRY CENTER
Sodai 1128-1
Mino, Gifu
501-37, Japan
Tel. 05753/3-2585

Status: A public institution of Gifu Prefecture, founded in 1970. The Gifu Prefecture Forest Experiment Station was first established in 1954 and moved to its present site in 1970. The Center consists of 6 research sections , a Development Office, a Breeding Office and a Forestry College.

Staff: 14 research officers
5 development officers
6 technicians
2 teachers
9 other (administrative/secretarial/drivers)

Field stations: None

Principal fields of activity:

Forest management, forest mechanization, silviculture, forest soils, tree breeding, forest diseases and pests, environmental conservation, wood technology and wood utilization, and special forest products.

Special facilities: A herbarium (100 specimens) and a xylarium (200 specimens). There is also a demonstration orchard.

Publications and services: Research results are published in an annual report, in the annual Bulletin of the Center, and in serial publications such as the pamphlet of Forestry Center Informations. The Center has a library with 3,000 scientific and technical volumes and 5,000 technical journals.

Cooperation: No cooperative activities. The Center is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FORESTRY
FACULTY OF AGRICULTURE
IWATE UNIVERSITY
Ueda 3-18-8
Morioka
020, Japan

Tel. 0196/23-5171

Status: A university institution. The Morioka Higher Agricultural School, the predecessor of the Faculty of Agriculture, Iwate University, was founded in 1902 and became part of Iwate University in 1949.

Staff: 17 teaching and research staff (10 Ph.Ds)
4 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture, forest tree physiology, forest policy, marketing of forest products, forest management, forest mensuration, erosion control engineering, forest engineering, wood processing, wood physics, wood chemistry, and forest mechanization.

Special facilities: 275 tree species planted in the yard of the Iwate University, and a small herbarium collection.

Publications and services: Research results are published in journals and academic publications and are disseminated through research conferences and seminars. The Bulletin of Iwate University Forests is issued once a year, and the journal of the Faculty of Agriculture 3 times a year. The library contains 6,900 scientific and technical volumes and has also microfiche readers. On-line information retrieval services are also available.

Cooperation: The Department offers educational and research facilities to other countries. At present, two students from China are studying silviculture, and one student from Indonesia is studying forest policy. The Department is willing to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FORESTRY
FACULTY OF AGRICULTURE
KOCHI UNIVERSITY
Monobe B-200
Nankoku-shi, Kochi
783, Japan

Tel. 0888/63-4141

Status: A teaching and research department of the Faculty of Agriculture, Kochi University. The University was established in 1949 and the Department of Forestry in 1954.

Status: 17 teaching and research staff (14 Ph.Ds)
1 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Forestry: Silviculture, forest management, forest bio- and econo-metrics, forest engineering, erosion control engineering.
Forest Products: wood science and technology, and wood chemistry.

The activities are conducted mainly in the temperate zone.

Special facilities: A herbarium with 3,000 specimens and a xylarium with 400 specimens.

Publications and Services: Research results are published in journals and academic publications. The Bulletin of the Kochi University is issued every year. The library contains about 8,000 scientific and technical volumes; 110 subscriptions to technical journals.

Cooperation: No cooperative activities. The Department is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FORESTRY
FACULTY OF AGRICULTURE
NIIGATA UNIVERSITY
8050, Igarashi 2-nocho
Niigata
950-21, Japan

Tel. 0252/(62) 6685

Status: A university institution. The Faculty of Agriculture of Niigata University was established in 1948.

Staff: 13 research, teaching and development staff (11 Ph.Ds)
1 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Activities are grouped in five departments: Forest Management and Forest Policy; Forest Mensuration and Statistics; Silviculture, including Forest Soils and Ecology; Soil Conservation and Forest Influences; and Wood Technology and Wood Utilization.

The activities are conducted mainly in the temperate zone.

Special facilities: Small herbarium and xylarium collections.

Publications and services: Research results are published in the Bulletin of the Niigata University Forests and in other publications. There is no library.

Cooperation: The Department has no formal links with other countries, but foreign students are welcome. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

FOREST EXPERIMENT STATION OF YAMAGATA PREFECTURE
Sagae, Yamagata
991, Japan
Tel. 0237/84-4301

Status: A public institution founded in 1959.

Staff: 16 research officers
4 technicians
3 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Forest management, forest engineering, forest diseases and pests, snow problems in forests, soil and water conservation, cultivation of medicinal plants, wood properties, mushroom and mountain herb products.

Special facilities: Collection of medicinal plants for demonstration purposes.

Publications and services: Research results are published in an annual report and in the annual Bulletin of the Experiment Station, and are disseminated through research conferences. The Station has a library with 10,000 scientific and technical volumes.

Cooperation: The Station is willing and in a position to develop research links with developing countries. It is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FOREST PRODUCTS
FACULTY OF AGRICULTURE
HOKKAIDO UNIVERSITY
Kita 9 Nishi 9, Kitaku
Sapporo
060, Japan
Tel. 011/716-2111

Status: An educational and research institution within Hokkaido University. The Faculty of Agriculture was established in 1876, and in 1949 the Department of Forestry was divided into two departments: Forestry and Forest Products.

Staff: 15 research and teaching staff (13 Ph.Ds)
1 technician
7 other (administrative/secretarial)

Field stations: 6 experimental forests

Principal fields of activity:

Wood anatomy and physics; wood formation, timber quality.
Wood engineering; wooden structures, wood-working technology.
Wood chemistry; chemistry and utilization of wood and bark.
Chemical technology of forest products; pulp and paper; wood protection.

Special facilities: A xylarium and a forest museum (in the Tomakomai experimental forest).

Publications and services: Research results are published in the research bulletin of the College Experimental Forests of Hokkaido University (issued twice a year). The library of the University has 2,100,000 volumes, and its branch at the Faculty some 250,000 volumes.

Cooperation: The University has many international links with universities. There is also an exchange of scientists and students from abroad. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

DEPARTMENT OF FOREST PRODUCTS SCIENCE
FACULTY OF AGRICULTURE
SHIZUOKA UNIVERSITY
836, Ohya
Shizuoka-shi, Shizuoka
422, Japan

Tel. 0542 37-1111
Cables:

Status: The Department, established in 1966, is part of the Graduate School of Agriculture of Shizuoka University.

Staff: 15 research officers (15 Ph.Ds)
5 technicians

Field stations: None

Principal fields of activity:

Wood technology, wood processing, chemistry of wood and industrial wood chemistry, and wood adhesion.

Ten percent of the research programme is devoted to fuelwood or energy activities, mainly in the temperate zones.

The Department is also involved with extension.

Special facilities: (information not available)

Publications and services: Research results are published in an annual report and in the bulletin of the Shizuoka University, and are disseminated through research conferences. There is a library with 500 scientific and technical volumes; 33 subscriptions to international technical journals.

Cooperation: The Department cooperates with developing countries in staff training; two Indonesians are currently being trained in Wood Adhesion and Wood Processing. The Department is willing to strengthen such links. It is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

OKAYAMA PREFECTURAL FOREST EXPERIMENT STATION
1001, Uetsuki-Naka
Shoo-cho, Katsuta-gun, Okayama
709-43, Japan
Tel. 0868/38-3151

Status: A public institution of the Okayama Prefectural Office, founded in 1952.

Staff: 11 research officers
5 development officers
4 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Genetic studies; silviculture; nursery technology; cultivation of mushrooms, chestnut, Ginkgo, medicinal grass; forest entomology; forest pathology; tree physiology; soil fungi; fire ecology; wood technology.

The Station is also involved with extension.

The research activities are conducted mainly in the temperate zone.

Special facilities: A demonstration orchard.

Publications and services: Research results are published in an annual report, occasional publications of the Station's bulletin, and in serial publications such as News of the O.F.E.S. (1-2 issues per year). They are also disseminated through research seminars. The Station maintains a library with 1,500 scientific and technical volumes; 20 subscriptions to international technical journals.

Cooperation: Exchange of information with international institutions, e.g. in China (Chinese chestnut products and Matsucocus matsumurae) and in Korea (Matsutake mushroom). The Station is willing to strengthen research links with developing countries. It is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

KŌCHI PREFECTURAL FOREST EXPERIMENT STATION
Miyanokuchi, 185
Tosayamada, Kōchi
782, Japan
Tel. 08875/2-5105

Status: A public institution of the Kōchi Prefectural Office, founded in 1949.

Staff: 13 research officers
5 technicians
4 other (administrative-secretarial)

Field stations: None

Principal fields of activity:

Production and distribution of trees for regeneration, forest mechanization, tree breeding, silviculture, forest soils, forest protection, and cultivation of edible fungi and medicinal plants growing under forest canopy.

Special facilities: A nursery for regeneration of trees (48,000 m^2).

Publications and services: Research results are published in an annual report and in the annual Bulletin of Kōchi Prefectural Forest Experiment Station, and are disseminated through research conferences.

Cooperation: No cooperative activities. The Station is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

ISHIKAWA PREFECTURAL FOREST EXPERIMENT STATION
Sannomiya
Tsurugi-machi
920-21, Japan
Tel. 07618-2/0673

Status: A public institute of the Ishikawa Prefectural Office, founded in 1960.

Staff: 9 research officers
3 technicians
7 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest administration.
Development of forest machinery
Silviculture and wood preservation.
Cultivation of edible fungi.

Special facilities: None

Publications and services: Research results are published in an annual report and in a bulletin. There is a library with 7,000 scientific and technical volumes.

Cooperation: -
The Station is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

WOOD RESEARCH INSTITUTE
KYOTO UNIVERSITY
Gokasho
Uji City
611, Japan

Tel. 0774-32-3111
Cables:

Status: A university institute founded in 1964. The Institute consists of six research sections: Wood Physics, Wood Chemistry, Wood Biology, Composite Wood, Lignin Chemistry, and Wood-Biocide Technology.

Staff: 25 research officers (20 Ph.Ds)
3 technicians
12 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Anatomy, structure and chemistry of wood; development and improvement of wood-based material; production technology; strength and durability properties of timber and structural members; chemistry and biochemistry of lignin; development of wood preservatives; ecology and physiology of termites.

The Institute has developed an explosion process for wood saccharification and the manufacture of cattle feed.

Activities involve training as well as research and are conducted mostly in temperate zones. Ten percent of the research programme is devoted to fuelwood and energy activities.

Special facilities: A xylarium with 4,000 specimens.

Publications and services: Research results are published in "Wood Research" (annual publication) and in annual wood research and technical notes, and are disseminated through research conferences and seminars. The library contains 150 scientific and technical volumes; 80 subscriptions to international technical journals.

Cooperation: The Institute cooperates with the National Institute of Physics, Bandung, Indonesia (wood technology research). Cooperation also involves exchange of staff and training. Four Indonesians are currently working or being trained in Wood Technology at the Institute. The Wood Research Institute is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

HYOGO PREFECTURAL FOREST EXPERIMENT STATION
430, Ozaki, Ikaba
Yamasaki-cho, Shisou-gun, Hyogo
671-25, Japan
Tel. 07906/2-2118

Status: A public institution of the Hyogo Prefectural Office, founded in 1934.

Staff: 18 research officers
3 development officers
9 technicians
5 other

Field stations: 1

Principal fields of activity:

Silviculture, forest soils, forest protection, cultivation of mushroom and chestnut, wood technology, and wood utilization.

Special facilities: -

Publications and services: Research results are published in an annual report and in the Bulletin of the Hyogo Prefectural Forest Experiment Station. The library contains some 1,400 scientific and technical volumes; 15 subscriptions to international technical journals.

Cooperation: - The Station is not a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

JAPAN

SHIGA FOREST RESEARCH CENTER
Kitasakura 978-95
Yasu, Shiga
520-23, Japan
Tel. 0775/87-2655

Status: A public institution of Shiga Prefecture, founded in 1966.

Staff: 4 research officers
2 technicians
4 extension officers
7 other (administrative)

Field stations: 2

Principal fields of activity:

Silviculture and tree breeding, forest protection, forest management, special forest products, environmental conservation.

Special facilities: A nursery, a herbarium, and a hall for the display of specimens (1,500).

Publications and services: Research results are published in the bulletins of Shiga Forest Research Center and in occasional reports. The Center holds annual meetings on research results and provides technical guidance to foresters. There is a library with 2,400 volumes and 26 periodical publications.

Cooperation: The Center exchanges tree seeds with institutions in other countries. It has formal cooperative links and exchanges information with the Forest Research Institute of Hunan, China, and the Forest Research Institute of Korea. The Center is willing to strengthen research links with other countries. It is a member of IUFRO.

Official working language: Japanese
Official working languages for international correspondence: English and Chinese.

JAPAN

SAITAMA PREFECTURAL FOREST EXPERIMENT STATION
2609 Hachigata
Yorii-machi, Ohsato-gun, Saitama
369-12, Japan
Tel. 0485/(81) 1533

Status: A public institution of the Saitama Prefectural Government, founded in 1957.

Staff: 9 research officers
5 technicians
5 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture and tree breeding, forest protection, forest mechanization, minor forest products, and woodcraft.

The activities are carried out mainly in the temperate and mountainous zones.

Special facilities: Small herbarium and xylarium collections, and an arboretum with 683 species.

Publications and services: Research results are published in annual reports and in other publications, and are disseminated through research conferences and seminars. There is a library with 1,350 scientific and technical volumes; 50 subscriptions to technical journals.

Cooperation: No activities. The Station is a member of IUFRO.

Official working language: Japanese
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

DEPARTMENT OF FORESTRY
COLLEGE OF AGRICULTURAL SCIENCES
CHUNGBUK NATIONAL UNIVERSITY
San 48, Kaesin-dong
Cheongju 310, Republic of Korea

Tel. 4-6181 (Ext. 570)

Status: The Department of Forestry is an integral part of Chungbuk National University. It was established in 1955 and has about 120 students at present.

Staff: 7 academic staff (4 Ph.Ds)
1 administrative assistant
6 other

Field stations: 1

Principal fields of activity:

Silviculture, silvics and dendrology.
Forest Management, forest mensuration, forest policy.
Forest products, forest chemistry, forest technology.
Soil conservation.
Forest protection, forest pathology.

Special facilities: A herbarium and a xylarium with specimens of worldwide geographic interest.

Publications and services: Research results are published in the annual bulletin of the Kaesin Arboretum. The Department of Forestry has its own library.

Cooperation: Formal cooperative links with the Forest Research Institute in Cheongju and other institutes and universities. The Department is not a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

DEPARTMENT OF FORESTRY
COLLEGE OF AGRICULTURE
GYEONGSANG NATIONAL UNIVERSITY
Gazwa Dong # 900
Chinju City, Gyeongnam Do
Republic of Korea, 620-00
Tel. 0591/52-4331-35; 52-7801-05

Status: The Department of Forestry is an integral part of the College of Agriculture of Gyeongsang National University. It was established in 1948 as part of the Gyeong Nam Provincial Chinju Junior Agricultural College and became a National College in 1968. After various administrative changes it was given its present status in 1980.

Staff: 6 research officers (6 Ph.Ds)
7 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Forest management; silviculture and genetics; wildlife and forest products; forest influences; forest engineering; soil and water conservation; biological control of forest insects and diseases; forest ecology and botany; forest policy; and forest mensuration.

Special facilities: A herbarium and a xylarium. The laboratory has modern equipment.

Publications and services: Research results are published in the following journals: Journal of the Gyeongsang National University, Journal of the Institute for Agricultural Resource Utilization (attached to the University), Journal of Korean Forestry Society, and Journal of Japanese Forestry.

Cooperation: The Department maintains cooperative links with several provincial forestry experiment stations, with the Institute of Forest Genetics in Suweon, and with the Forest Research Institute in Seoul. It is not a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

KANG WEON-DO FORESTRY EXPERIMENT STATION
Woo-Do-Dong 132-1
P.O. Box 200
Chuncheon 200-00, Republic of Korea Tel. 2-2860

Status: A public institution under the administrative control of the Kang Weon Provincial Governor. In 1947 the Station was established by the Kang Weon Provincial Government as a forestry breeding station. The aspects of research widened, and in 1965 the Station was designated as the Kang Weon Provincial Forestry Experiment Station. The Station is under the supervision of the Forest Service in Seoul.

Staff: 11 research officers (1 Ph.D)
2 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Silviculture, including tree breeding, seed research and nursery technology, with special emphasis on tree planting in mountainous areas.

Forest pests and diseases, particularly biological control.

Growth and yield studies, increment surveys of tree species.

Wood preservation.

Impact of fuelwood production on the environment.

Special facilities: A herbarium and a wood collection of 350 specimens, as well as a greenhouse and floor space of 104.84 m^2 and flowering grass of 200 species.

Publications and services: Research results are published in the Station's annuel report and research report, and in the proceedings of research conferences. The Station has a small library with 500 scientific and technical volumes.

Cooperation: The Station has cooperative research links with the Forest Research Institute, Seoul, and with the Institute of Forest Genetics, Suweon. Formal international links have not yet been developed. It is not a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

DEPARTMENT OF FORESTRY
COLLEGE OF AGRICULTURE
KYUNGPOOK NATIONAL UNIVERSITY
1370 Sankyup-dong, Buk-ku
Daegu 635, Republic of Korea

Tel. (053) 94/5001-35

Status: The Department, established in 1976, is part of the College of Agriculture, Kyungpook National University.

Staff: 5 research officers (3 Ph.Ds)
1 technician

Field stations: 1

Principal fields of activity:

Forest management, silviculture and tree breeding, soil and water conservation, wood technology, and wood physics.

Special facilities:

Gas chromatography, an amino-acid analyser, a growth cabinet, and an electronic microscope.

Publications and services: Research results are published in annual reports, the Research Bulletin of the Institute of Agricultural Science and Technology, and in the Agricultural Research Bulletin of Kyungpook National University, and are disseminated in research conferences, seminars and symposia. The University has a central library with 341,958 scientific and technical volumes and 951 technical journals.

Cooperation: The Department cooperates with the Forest Experimental Station of Kyungsangpook-do. It is willing to develop research links with institutions in other countries. It is not a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

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Seoul 131, Republic of Korea

Tel. 02/966-8961-4

Status: A public institution of the Republic of Korea, founded in 1922.

Staff: 174 research officers (8 Ph.Ds)
45 senior researchers
129 junior researchers

Field stations: 3

Principal fields of activity:

Forest management and economy, forest mensuration, forest mechanization, silviculture, forest soils, forest entomology, forest pathology, wildlife management, chemistry of forest products, wood technology and wood utilization, special forest products, forest resources survey, inspection and testing of forest products.

Special facilities: A herbarium (1,143 species) and a xylarium (3,435 specimens); an insectary, an arboretum in HOngneung, an arboretum in Kwangneung, and a forestry museum.

Publications and services: The Institute publishes an annual report, research reports (annually), "Prevention of Forest Fires" (quarterly), a Wildlife Population Census in Korea (occasionally), and research notes. It maintains a library with 11,600 scientific and technical volumes and subscribes to 207 national and international technical journals.

Cooperation: Cooperative links with the Institute of Forest Genetics and forest research institutes in 8 provinces of the Republic of Korea. The Forest Research Institute is a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

DEPARTMENT OF FORESTRY
COLLEGE OF AGRICULTURE
SEOUL NATIONAL UNIVERSITY
Seodun-dong 103
Suweon 170, Republic of Korea

Tel. 17-2111-7
Cables:

Status: The Department of Forestry is an integral part of the College of Agriculture of the Seoul National University. It was established in 1906 as part of the Agriculture and Forestry School and achieved its present status in 1946.

Staff: (information not available)

Field stations: 2

Principal fields of activity:

Silviculture, silvics and dendrology; forest genetics.

Forest management; forest mensuration; forest economics, including socio-economics of fuelwood production and use.

Forest policy.

Soil conservation.

Wood-based derivatives, e.g. methanol, ethanol and liquid fuel technology.

Special facilities: A herbarium and a xylarium with specimens of world-wide geographic interest. Laboratory facilities include growth chambers.

Publications and services: Research results are published in the annual Bulletin of the Seoul National University Forests, and in the annual Bulletin of the Kwanak Arboretum.

Cooperation: The Department maintains formal cooperative links with the Institute of Forest Genetics, Suweon, and with the Forest Research Institute, Seoul.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

INSTITUTE OF FOREST GENETICS
FORESTRY ADMINISTRTION
P.O. Box 24
Suwon, Kyonggido 170
Republic of Korea

Tel. 0331/32-2121-2

Status: A public institution affiliated to the Forestry Administration. The Institute began in 1956 in Suwon as a branch of the Central Forest Experiment Station. After various administrative changes, it was given its present status in 1967.

Staff: 66 research officers (4 Ph.Ds)
4 technicians
9 other (administrative/secretarial)

Field stations: 3

Principal fields of activity:

Projects can be grouped into 8 categories: pine breeding, poplar breeding, selective breeding, introduction of exotic species, nut tree breeding, gene conservation, tissue culture, etc.

Special facilities: Laboratory facilities include gas and liquid chromatography, softex, inverted microscope, and many other items.

Publications and services: Research results are published in annual reports and research notes and are disseminated through research seminars. The Institute maintains a library with 7,286 scientific and technical volumes; 261 subscriptions to international technical journals.

Cooperation: The Institute has no formal research links with foreign countries but exchanges staff and information on an international basis. It is a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

KOREA, REPUBLIC OF

DEPARTMENT OF FORESTRY
COLLEGE OF INDUSTRY
KYUNG HEE UNIVERSITY
Keehŭng-Myeon, Sŏchŏn-Ree 1
Yongin-Kun, Kyunggi-Do
Republic of Korea, 170-73 Tel. 0331/8-6130

Status: The Department of Forestry is an integral part of the College of Industry of Kyung Hee University. The undergraduate course was established in 1967, and the graduate course in 1973.

Staff: 5 teaching and research staff (3 Ph.Ds)
2 technicians
4 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Silviculture, forest genetics.
Forest management, forest mensuration.
Forest policy.
Forest soil science
Forest ecology.

Special facilities: A herbarium and xylarium collection.

Publications and services: Research results are published in journals and academic publications and are disseminated through research conferences and seminars. Kyung Hee University issues every year a "Theses Collection of Nature Science" and the "Journal of the Research Institute of Science and Technology". The library of the University contains over 100,000 scientific and technical volumes and subscribes to nearly 100 international journals.

Cooperation: The Department maintains cooperative links with the Institute of Forest Genetics, Suweon, and with the Forest Research Institute in Seoul. It is not a member of IUFRO.

Official working language: Korean
Official working language for international correspondence: English.

MALAYSIA

INSTITUT PENYELIDIKAN PERHUTANAN MALAYSIA (FRIM)
(The Forest Research Institute of Malaysia - FRIM)
Kepong, Selangor
52109 Kuala Lumpur

Tel. 03/6262633
Cables: UTAN
Telex: FRIM - MA - 27007

Status: The Institute became a statutory body functioning under the Malaysia Forestry Research and Development Board (MFRDB) on 1 October 1985. It was formerly known as the Forest Research Institute, Kepong (FRI).

Staff: 63 research officers (6 Ph.Ds, 12 M.Sc.s)

Field stations: 4

Principal fields of activity:

1. Forestry: management and silviculture of natural forests; plantation forests; ecology of natural forests; watershed management; planting stock production; agroforestry; urban forestry; forest protection; forest soils; and plant science.
2. Forest Products: timber technology; wood protection; wood processing; panel products; utilization of rubberwood and oil palm stems; utilization of rattans, bamboo and other non-timber resources; wood cellulose and wood chemicals; techno-economics; energy from wood.

Special facilities: A wood collection of over 10,000 specimens; an insect collection of over 400,000 specimens; a herbarium with over 125,000 specimens; a forestry museum. Equipment for fuelwood research includes a bomb calorimeter and a briquetting machine. Other laboratory equipment includes an electron microscope, etc.

Publications and services: The serial publications of FRIM are: Malaysian Forest Records, FRIM Research Pamphlets, Timber Trade Leaflets, FRIM Reports, the Timber Digest, a Rattan Information Centre (RIC) Bulletin and an Urban Forestry Bulletin. These publications contain research results and reports of seminars, conferences, etc. The Institute renders services (timber testing, analytical work, identification of botanical specimens, soil, timber defects, etc.) to the timber industries and the public. It also organizes training courses and seminars on related fields as part of its extension and technology transfer programme. The library has 120,000 volumes and 1,000 journals, with complete runs of some periodicals dating back to the 1800's. The library also takes part in the International Information Network and coordinates the Rattan Information Centre (RIC).

Cooperation: FRIM has cooperative links with the Forestry Department of Peninsular Malaysia, other local research institutions and universities, as well as post-graduate programmes with Aberdeen University and other universities in the U.K. and the U.S.A. It also has joint research projects with the Tropical Products Institute (U.K.), the GTZ (FRG), JICA (Japan), the National Science Foundation (Belgium), Canada and the World Bank. The Institute is a member of IUFRO and of some forestry organizations in Asia.

Official working languages: Bahasa Malaysia and English.
Official working language for international correspondence: English.

MALAYSIA

FOREST RESEARCH BRANCH
FOREST DEPARTMENT
Badruddin Road
Kuching, Sarawak

Tel. 22161
Cables: FORESTRY

Status: The Forest Research Branch is a public institution forming part of the Forest Department. Research started in the mid 1920's and has gradually expanded to cover most aspects of forest biology.

Staff: 12 research and development officers (1 Ph.D)
(information on other staff not available)

Field stations: 1

Principal fields of activity:

Forest botany, ecology and silviculture, with special reference to peat swamps, hill Dipterocarp and mangrove forests.

Silviculture of plantations. Soil research.

Forestry pathology and entomology.

Social studies on trees and forests in farming systems and conflicts for land.

Special facilities: A herbarium with 90,000 specimens. There is a full-time curator.

Publications and services: Research results are published in annual reports and forestry research reports, and are disseminated through research seminars.

Cooperation: The Forest Research Branch has formal cooperative links with the Forest Research Institute, Kepong, and with the Forest Research Centre, Sepilok, Sabah. The Branch cooperates with the Commonwealth Forestry Institute, Oxford, U.K., in the analysis of silvicultural experiments. A joint research project on forest mapping is being undertaken with the Arnold Arboretum, Harvard University, U.S.A. The Commonwealth Institute of Entomology, London, cooperates in the study of insect taxonomy. The Branch is a member of IUFRO.

Official working language: Bahasa Malaysia
Official working language for international correspondence: English.

MALAYSIA

PUSAT PENYELIDIKAN HUTAN
(Forest Research Centre)
P.O. Box 1407
Sandakan, Sabah

Tel. 089/44179
Cables: PENYELIDIK SANDAKAN

Status: A public institution under the supervision of the Forest Department. Research began in 1954 and activities gradually expanded until 1974 when the Forest Research Centre was formally established.

Staff: 15 research officers (2 Ph.Ds)
70 technicians
14 other (administrative/library)

Field stations: None

Principal fields of activity:

Botanical and ecological studies.

Silviculture, including species and provenance trials, tree breeding and tree improvement, vegetative propagation, seed research, pests and diseases.

Soil studies and plantation site surveys.

Yield and growth studies. Use of woody residues as fuel.

Wood utilization, including preservation, seasoning, and strength properties research.

Special facilities: A herbarium (80,000 specimens) and a xylarium (5,000 specimens) with a full-time curator. The collections cover the Malaysian area and are available for use by other research workers.

Publications and services: The Centre holds research seminars and discussion meetings with the public and government bodies. In addition to the proceedings of seminars, the Centre publishes regular biannual reports and contributes to the quarterly journal "The Malaysian Forester". The Centre maintains a large library and subscribes to 120 international scientific and technical journals. Microfiche readers are available.

Cooperation: The Centre has semi-formal links with the Forest Research Institute, Kepong, and with the Forest Department, Kuching. International links have been developed with various UNDP/FAO projects, especially with regard to training of field staff and local counterparts. The Centre is a member of IUFRO.

Official working language: Bahasa Malaysia
Official working language for international correspondence: English.

MALAYSIA

FAKULTI PERHUTANAN
UNIVERSITI PERTANIAN MALAYSIA
(Faculty of Forestry,
Agricultural University Malaysia)
Serdang, Selangor

Tel. 356101
Cables: UNIPERTAMA SUNGAIBESI
Telex: UNIPER MA 37454

Status: The Faculty is an integral unit of the Agricultural University. It was established in 1973 to train professional and sub-professional foresters, and to carry out research. In 1979, two departments, the Department of Forest Management and the Department of Forest Production, were established. Guidance in research activities is received from the University Research Committee.

Staff: 30 teaching/research/development (4 Ph.Ds)
14 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Research activities are mainly centred on:
- management of hill forests,
- forest plantations,
- optimum use of forest raw materials.

Special facilities: A herbarium with 600 specimens of tropical trees. Laboratory equipment includes a gas chromatograph, a bomb calorimeter, an auto-analyser, an atomic absorption spectrophotometer and soil testing equipment. There are also greenhouse facilities.

Publications and services: Research results are published in the proceedings of research conferences and seminars. The Faculty also contributes to the scientific journal Pertanika which is published quarterly. There is a library with 180,561 scientific and technical volumes and 4,682 copies of international technical journals.

Cooperation: The Faculty has formal research links with BIOTROP (Regional Centre for Tropical Biology of ASEAN), the Man and Biosphere Programme of Unesco, and the International Foundation for Science, Stockholm, Sweden. The Faculty of a member of IUFRO.

Official working language: Bahasa Malaysia
Official working language for international correspondence: English.

NEPAL

INSTITUTE OF FORESTRY
P.O. Box X
Hetauda
Tel. 453

Status: A technical institution under Tribhuvan University.

Staff: 41 senior teachers
15 junior teachers
117 administrative staff

Field stations: 2

Principal fields of activity:

Research in forestry, wildlife and soil and water conservation.

The main concern of the Institute is to produce higher- and lower-level forest resource technicians.

Special facilities: A herbarium with 1,000 specimens, a micro-computer, and a museum. A library documentation centre is under construction.

Publications and services: The Institute publishes the technical journal "Forestry" twice a year. There are two libraries with 11,678 books and 18 journals covering various aspects of forest resources.

Cooperation: The Institute collaborates with various agencies under HMG, Ministry of Forest and Soil Conservation and with a Nepal-Australia Project. It is willing to strengthen cooperation with institutions and agencies in other countries. The Institute is not a member of IUFRO.

Official working languages: Nepali and English.
Official working language for international correspondence: English.

NEW ZEALAND

SCHOOL OF FORESTRY
UNIVERSITY OF CANTERBURY
Private Bag
Christchurch 1

Tel. 482-009

Status: An educational and research institution within the University of Canterbury. The School of Forestry was founded in 1967.

Staff: 5 research officers (3 Ph.Ds)
5 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood science - permeability and energy; silviculture - stand growth modelling; management - sector planning, inventory; forest economics - trade, finance, marketing; and harvesting - systems analysis.

Approximately ten percent of the research programme is devoted to fuelwood or energy activities.

The research activities are conducted mainly in the humid tropical and temperate zones.

Special facilities: A herbarium and a xylarium.

Publications and services: Research results are published in the following journals: "Wood Science", the New Zealand Journal of Forestry, the New Zealand Journal of Forestry Science, and the Forest Products Research Journal, and are disseminated through research conferences and seminars. The School possesses a library with microfiche readers. (Other information not available)

Cooperation: Cooperative links have been established with the Fiji Pine Commission, Lautoka, Fiji. Other international links with regard to training and exchange of information. The School of Forestry is willing to strengthen such links. It is a member of IUFRO.

Official working language: English.

NEW ZEALAND

PHYSICS AND ENGINEERING LABORATORY
Private Bag
Lower Hutt

Tel. Wellington 666-919

Status: A public institution.

Staff: 3 research officers (3 Ph.Ds)
1 technician

Field stations: None

Principal fields of activity:

General information on the research programme is not available, but research includes methods of fuelwood conversion into energy and improved stove design.

Special facilities: (information not available)

Publications and services: Research results are published in scientific articles in international technical journals. There is a library with microfiche readers.

Cooperation: The Laboratory is willing to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

NEW ZEALAND

CHEMISTRY DIVISION
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (D.S.I.R.)
Private Bag
Petone

Tel. 666919
Cables: CHEMDIV
Telex: PHYSICS 3814

Status: Government research institution, a division of DSIR dealing with many aspects of chemistry, including natural products chemistry. The Division was first established in 1865.

Staff: 6 scientists (5 Ph.Ds)
3 technicians
(the number refers to those working in the forest products area)

Field stations: None

Principal fields of activity:

Chemistry of natural products, with special reference to chemistry and utilization of proanthocyanidins (condensed tannins).

Special facilies: A modern chemical laboratory, well equipped for chemical analysis and structural elucidation.

Publications and services: Research results are published in international journals. There is a modern scientific library which is the largest in the country.

Cooperation: The Division has cooperative links with the Southern Experiment Station, Forest Service, U.S.D.A., Pineville, Louisiana, U.S.A. It is presently hosting two visiting scientists from Nanjing Forestry University, previously known as Nanjing Institute of Forestry, and Nanjing Technological College of Forest Products. It is not a member of IUFRO.

Official working language: English.

NEW ZEALAND

FOREST RESEARCH INSTITUTE
Sala Street
Private Bag
Rotorua

Tel. 475-899
Cables: FRESTRA ROTORUA
Telex: NZ 21080

Status: The Institute was founded in 1947 as an arm of the New Zealand Forest Service, under the overall direction of the National Research Advisory Council.

Staff: 168 research officers (72 Ph.Ds)
184 technicians
114 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

All aspects of production forestry, including protection; and forest products research. Activities include training and extension.

The research activities are conducted mainly in the temperate and mountainous zones.

Special facilities: A herbarium with 16,000 specimens of the New Zealand flora, a xylarium with 7,000 specimens of international timber, a fungal collection of 1,700 specimens, and an insect collection of 90,000 specimens. The Institute has modern laboratory equipment.

Publications and services: Research results are published in an annual report, in the proceedings of research conferences and seminars, in international journals, and in the following publications: the New Zealand Journal of Forestry Science (four-monthly), FRI bulletins (periodic), "What's New in Forest Research" (periodic), "Forest and Timber Insects in New Zealand" (periodic), and "Forest Pathology in New Zealand" (periodic). The Institute also has field days, open days and film shows, and welcomes technical visitors as part of its extension programme. There is a library with 110,000 scientific and technical volumes and 1,600 journals, received by subscription or exchange; access to on-line information retrieval systems.

Cooperation: Research links with Germany, USA, England and Australia regarding training, exchange of staff and exchange of information. The Institute cooperates with the New Zealand Foreign Aid Programme and has various cooperative links with developing countries. The Forest Research Institute is also a member of IUFRO and actively participates in several working groups.

Official working language: English.

NEW ZEALAND

NEW ZEALAND LOGGING INDUSTRY RESEARCH ASSOCIATION (Inc.)
Sala Street, FRI North Entrance
P.O. Box 147
Rotorua

Tel. (073) 87168
Telex: FRESTRA NZ 21080

Status: An industry-funded organization established in 1975 to meet the need for industry-oriented research and development in logging. The participation of all sections of the logging industry in its management ensures that priority is given to industry's most urgent needs.

Staff: 10 research officers
5 other (administrative)

Field stations: None

Principal fields of activity: LIRA promotes, coordinates, and carries out research and development work in all phases of tree harvesting and log transportation in New Zealand.

Special facilities: None

Publications and services: Research results are published in a range of serial publications (reports, digests, technical releases, project reports, seminar proceedings, handbooks). LIRA also publishes a bi-monthly newsletter and an annual report. LIRA has a well equipped library with aprox. 6,000 titles and 158 journal titles. The library is open to all those with an interest in logging (borrowing is restricted to members).

Cooperation: LIRA exchanges information with overseas research organizations. It is a member of IUFRO.

Official working language: English.

NEW ZEALAND

N.Z. FOREST PRODUCTS LIMITED
Private Bag
Tokoroa 2392

Tel. 0064-0814/61-999
Telex: 0064 651114

Status: -

Staff: 17 graduate staff, 2 with Masters degrees

Field stations: 2

Principal fields of activity:

Forest management research - forest establishment nursery and site preparation; use of chemicals; establishment and yield of eucalypts; growth models for P. radiata and E. regnans.

Special facilities: None

Publications and services: Publications in recognised journals. The Company has a comprehensive English language forestry library.

Cooperation: Close cooperative links with the Forest Research Institute, Rotorua, and with the major N.Z. forest research organizations, as well as universities in New Zealand, especially Canterbury. Staff have been seconded for assignments for aid agencies (FAO, FAO/IBRD). The Company is a member of IUFRO.

Official working language: English.

PAKISTAN

PAKISTAN FOREST INSTITUTE
Peshawar

Tel. 40580
Cables: PAKFI

Status: An independent public institution of the Ministry of Food, Agriculture and Cooperatives. The Institute dates from 1948 and development of the present site at Peshawar started in 1955.

Staff: 119 research officers (7 Ph.Ds)
105 technicians
71 other (administrative/secretarial)

Field stations: 8

Principal fields of activity: Activities are grouped in four Divisions:

Forestry Research Division - nursery and silviculture of plantations, agroforestry, species selection, tree breeding and tree improvement. Range, watershed and wildlife management. Forest economics and social aspects of forestry, including fuelwood production and use.

Biological Sciences Research Division - basic studies in crop improvement and use.

Forest Products Research Division - efficiency in utilization, logging practice, wood-based energy research.

Forest Education Division.

Special facilities: A herbarium with 60,000 specimens, and a xylarium with 200 specimens covering the Pakistan geographical area. There is a full-time curator. Laboratory equipment includes apparatus for spectrophotometry, a spectrometric-20, a flame photometer, etc. There are also seed and wood-testing laboratories.

Publications and services: Research results are published in annual reports, technical notes, research papers, bulletins and project reports, and are disseminated through research conferences, seminars and colloquia. The Institute maintains a library with 26,000 technical books and has 120 international journals on exchange and subscription.

Cooperation: The Institute has close research links with many national institutes: the Pakistan Agricultural Research Council; the Agricultural University, Faisalabad; the Pakistan Council for Scientific and Industrial Research; provincial Forest, Soil and Conservation Departments; the Water and Power Development Agency of Pakistan; the National Herbarium; the Zoological Survey; and the Pakistan Science Foundation. International links have been developed with the Commonwealth Forestry Institute, Oxford, U.K.; the United States Department of Agriculture; the German Agency for Technical Cooperation (GTZ); the International Board for Plant Genetic Resources; and multilateral organizations such as UNDP, FAO, and the World Bank. The Institute is a member of IUFRO.

Official working language: English.

PAPUA NEW GUINEA

FOREST RESEARCH DIVISION
OFFICE OF FORESTS
DEPARTMENT OF PRIMARY INDUSTRY
Frangipani Street
P.O. Box 5055
Boroko

Tel. 254022
Cables: FORESTS
Telex: NE 22360

Status: A public institution forming an integral part of the Office of Forests, Department of Primary Industry, Government of Papua New Guinea. The Division was founded in 1946 and moved to its present site in 1949.

Staff: 19 research officers and 3 development officers (3 Ph.Ds), of whom 11 expatriates
42 technicians
12 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Forest Botany Research - study of the forest flora and ecology.

Forest Products Research - wood technology; wood preservation, including protection against marine organisms; minor forest products; and wood energy.

Forest Management Research - silviculture of indigenous and plantation species; tree breeding and tree improvement; seed technology; protection against insects and pathogens.

Special facilities: A herbarium with 270,000 specimens, and a xylarium with over 50 specimens, covering species of Papua New Guinea, Australia and South-East Asia.

Publications and services: Research results are published in annual reports, tropical research notes and other publications, and are disseminated through research conferences, seminars and colloquia. The Division maintains a small library with some 500 volumes and subscribed in 1983 to 84 international journals.

Cooperation: The Division has formal cooperative national links with the Department of Minerals and Energy (fuelwood as a renewable source of energy), the Office of Environment and Conservation (environmental degradation), and the Department of Agriculture (agroforestry). International links are maintained with the Commonwealth Scientific and Industrial Research Organization (CSIRO), Melbourne, Australia. The Division has numerous informal research contacts and is a member of IUFRO.

Official working language: English.

PHILIPPINES

INSTITUTE OF FORESTRY
TARLAC COLLEGE OF AGRICULTURE
Camiling, Tarlac 2111

Status: A State College in Central Luzon, created by Presidential Decree No. 609 of 18 December 1974. The three main functions of the Institute are Instruction, Research and Extension.

Staff: 3 associate professors
1 assistant professor
14 instructors
3 field technicians
1 clerk/typist

Field stations: 1

Principal fields of activity:

Reforestation, fuelwood plantation establishment, fuelwood and charcoal production, forestry education, forestry extension, silviculture, and research. Very recently, a community forestry curriculum (2 years) was incorporated in the programme.

Special facilities: Demonstration models/field laboratories such as a forest reserve (665 ha), a fuelwood project, an agroforestry project, a forestry arboretum, an experimental forest nursery, and an orchidarium. The academic building houses the office room, laboratory room and class-lecture rooms.

Publications and services: Research results are published in the TCA journal and farm news, and are disseminated to students and other interested sectors. Seedlings are also available for distribution to interested groups. The reading centre maintained by the Institute is open to everybody. Extension services are offered to nearby rural communities in the form of informal education. There is a College Library with some 840 scientific and technical volumes, 129 special studies in forestry, and 530 titles of technical papers.

Cooperation: The Institute has cooperative links with the Bureau of Forest Development, FORI, FPRDI, the UP College of Forestry, and PCARRD, and intends to strengthen its research links with foreign institutions and the wood-based private industries. It is not a member of IUFRO.

Official working language: English.

PHILIPPINES

COLLEGE OF FORESTRY
UNIVERSITY OF THE PHILIPPINES AT LOS BAÑOS
P.O. Box 434
College, Laguna 3720

Tel. 2599
Cables:

Status: The College of Forestry is an integral unit of the University of the Philippines at Los Baños. The College was founded in 1910 and expanded considerably in the 1960's.

Staff: (information not available)

Field stations: None

Principal fields of activity:

Instruction, research and extension in general forestry, with special reference to Asia. Specific research interests include tree breeding, silvicultural methods, growth and yield studies, and wood preservation.

Special facilities: The laboratory equipment includes gas chromatography, electron microscopy, bomb calorimetry, an atomic absorption spectrophotometer, a flame photometer, a freeze drier, and a leaf area meter.

Publications and services: Research results are published in annual reports and research notes and are disseminated through research conferences and seminars. Serial and periodic publications include a Conservation Circular (quarterly) and "The Pterocarpus" (annually).

Cooperation: The College has many links with national and international research agencies. It is a member of IUFRO.

Official working language: English.

PHILIPPINES

FOREST PRODUCTS RESEARCH AND DEVELOPMENT INSTITUTE
College, Laguna 3720 Tel. 2586; 2377; 2360

Status: A public institution established in 1957 by Executive Order No. 257 and reconstituted into a Commission in 1969. It was renamed "Forest Products Research and Development Institute" in 1982 and is under the supervision of the National Science and Technology Authority.

Staff: 218 research and technical officers (5 Ph.Ds)
97 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Housing and materials research and development, including development and fabrication of standardized components of a house, roof trusses, walls, partitions, windows, doors; flooring systems from timber, coconut trunk, bamboos and palm species; composite building materials such as plywood and particle board; furniture, wares and packaging research and development; and paper, chemical products and wood energy.

Special facilities: A herbarium with 1,200 specimens from Mindanao and Luzon. Laboratory equipment includes paper and board-making machinery, an electron microscope, timber testing equipment, kilns and impregnation cylinders, charcoal briquetting plant and associated apparatus.

Publications and services: Research results are published in an annual report and in an annual Operations Plan, and are disseminated through research conferences and seminars. Other publications are: the FPRDI Journal (quarterly); the FPRDI Newsletter (monthly); "Forest Products Technoflow" (a serial); "Salin-Agham" (a bi-annual magazine); "FPRDI Mature Technologies"; "Philippines Timber Series"; "Timbers of the Philippines (1974, Vol. I); a Wood Identification Handbook for Philippines Timbers (1975, Vol. I, and 1981, Vol. II); Lexicon of Philippine Trees; and "Standards and Procedures for Descriptions of Dicotyledenous Woods". The Institute maintains a library with 3,000 volumes and subscribes to 15 international journals. Periodicals, monographs and reprints are received at an average rate of 350 per month. The Institute provides scientific and technological services to the forest-based industries and the general public through dissemination of relevant technologies generated through the Institutes research and development efforts. Such technologies are shared or transferred through cooperative projects, technical assistance, manpower training and publications.

Cooperation: The Institute has been supported by many bilateral and multilateral organizations, including FAO, the Philippine Council for U.S. Aid (PHILCUSA), the U.S. Agency for International Development (USAID), the Rockefeller Foundation, and the Colombo Plan. It has close links with many agencies, e.g. the Japan International Cooperation Agency (JICA), the International Development Research Centre of Canada (IDRC), the NSTA Regional Technology Development Program, the Philippines Council for Agricultural Resource Research and Development (PCARRD), the Philippine Council for Industry and Energy Research and Development (PCIERD), the Fiber Industry and Development Authority (FIDA), and ASEAN-Australia. Many countries have sponsored staff training and study tours. The Institute is a member of IUFRO.

Official working language: English.

PHILIPPINES

FOREST RESEARCH INSTITUTE
College, Laguna 3720 Tel. 2229; 2269; 3320

Status: A public institution established by Presidential Decree in 1974.

Staff: 10 research officers
382 technicians
484 other (administrative/secretarial)

Field stations: 14

Principal fields of activity:

Socio-economic research, including fuelwood production and use; silviculture; yield; harvesting and properties of wood.

Special facilities: A herbarium with 2,000 specimens of the Malaysia area. There are well-equipped laboratories for physiological and soils research.

Publications and services: Research results are published in annual reports, proceedings of research conferences, seminars and colloquia, occasional publications, and in the following serial and periodic publications: Canopy International (monthly); Sylvatrop (the Philippine forestry research journal issued quarterly); and Habitat (quarterly). The Institute has a large library.

Cooperation: The Institute has formal cooperative links with national and international agencies, including the Danish Agency for International Development (DANIDA), the International Development Research Centre (IDRC), Ottawa, Canada, FAO, and the World Bank. Training assistance has been provided by DANIDA, BIOTROP and numerous other bilateral and international organizations. The Institute is a member of IUFRO.

Official working languages: Filipino (Tagalog) and English
Official working language for international correspondence: English.

SRI LANKA

RESEARCH BRANCH
FOREST DEPARTMENT
5, Kew Road
P.O. Box 509
Colombo 2

Tel. 32251
Cables: FORESTS

Status: A public institution forming an integral part of the Forest Department. The Silvicultural Research Branch was established in 1937 and the Utilization Research Branch in 1949.

Staff 5 research and development officers (1 Ph.D)
10 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture: species and provenance trials, spacing and thinning research, seed production and testing, fertilizer and site quality studies, tree improvement, and fuelwood research.

Timber utilization: testing the physical and biological properties of timber, seasoning and preservation studies, and extension of the use of lesser-known species.

Special facilities: A herbarium with 3,000 specimens of Sri Lanka and basic laboratory equipment.

Publications and services: Research results are published in annual reports and in "The Sri Lanka Forester", a biannual departmental journal, and are disseminated through research conferences. The Branch maintains a library with some 2,000 books and monographs and subscribes to 12 international technical journals.

Cooperation: The Research Branch has formal international links with the United States Agency for International Development (USAID) with regard to watershed management and fuelwood research. There is also a fuelwood research project supported by the Asian Development Bank, and a species and provenance evaluation supported by the World Bank. The Branch is a member of IUFRO.

Official working languages: Sinhalese and English.
Official working language for international correspondence: English.

THAILAND

FACULTY OF FORESTRY
KASETSART UNIVERSITY
Paholyothin Road, Bangkhen
Bangkok 10900
Tel. 579-0520

Status: The Faculty of Forestry was founded at Phrae, northern Thailand, in 1934, under the Royal Forest Department. It moved to Bangkok in 1943 and became a Faculty of Kasetsart University.

Staff: 62 research and faculty staff (28 Ph.Ds)
11 technicians
27 other (administrative/secretarial)

Field stations: 4 summer training camps at which students are being trained and research is carried out.

Principal fields of activity:

Activities are grouped in six Departments: Forest Management, Silviculture, Conservation, Forest Biology, Forest Engineering, and Forest Products.

Special facilities: A herbarium with 500 plant specimens and 200 wood specimens. The laboratory has a seed germinator and equipment for silvicultural research, photogrammetry and remote sensing equipment, forest surveying equipment, forest biology equipment, and machinery for forest products research including wood pulp and paper and woodfuel and charcoal studies.

Publications and services: Research results are published in the proceedings of research conferences, seminars and colloquia, and in the Thai Journal of Forestry, a quarterly pubication. The Faculty has a library with 1,500 textbooks in Thai and 6,200 in English. It subscribes to 40 national and 80 international technical journals.

Cooperation: The Faculty cooperates closely with national agencies such as the Royal Forest Department, the Forest Industry Organization, and the Thai Plywood Company Limited. It also collaborates with the University of Helsinki (Finland), the Universiti Pertanian Malaysia, the University of Kyoto (Japan), and the University of Karlsruhe (Federal Republic of Germany). It receives assistance from FAO and numerous agencies, notably the Swedish International Development Authority (SIDA), USAID, IDRC and the Ford Foundation. The Faculty also welcomes visiting scholars from universities overseas. It is a member of IUFRO.

Official working language: Thai
Official working language for international correspondence: English.

THAILAND

SILVICULTURAL RESEARCH SUB-DIVISION
DIVISION OF SILVICULTURE
ROYAL FOREST DEPARTMENT
Paholyothin Road
Bangkok 10900 Tel. 02/579-0230-4

Status: A public institution for silvicultural research, formally established in 1960. It is an integral part of the Silviculture Division of the Royal Forest Department.

Staff: 81 researchers (4 Ph.Ds, 30 M.Sc)
6 technicians
8 other (administrative/secretarial)

Field stations: 26

Principal fields of activity:

Nursery and plantation techniques, research and development, agroforestry, fuelwood/biomass productivity, tree improvement and genetics, seed orchard and seed production area establishment, seed science and technology, forest ecology, forest soils, forest pathology and entomology, tree physiology and biotechnology.

Special facilities: A modern set of central laboratories with growth chambers. Analytical instruments include: an atomic absorption spectrophotometer, a double-beam spectrophotometer, a bomb calorimeter, a carbon-nitrogen analyser, a quantum/radiation photometer and a leaf area meter. There are also a specialized laboratory for seed testing and seed storage facilities.

Publications and services: Research results are published in an annual report, occasional research papers and monographs, and in the proceedings of annual forestry conferences. Advisory services are also provided to interested parties and individuals with regard to plantation establishment. The library contains a modest collection of approx. 500 volumes of texts and journals. The library facilities are at present being improved.

Cooperation: Close links are maintained with Japan's Forestry and Forest Products Research Institute, the DANIDA Seed Centre, the CSIRO Division of Forest Research and ACIAR (Australia), CIDA and IDRC (Canada), and Kew Botanic Garden (U.K.). The Division is a member of IUFRO.

Official working language: Thai
Official working language for international correspondence: English.

THAILAND

FOREST PRODUCTS RESEARCH DIVISION
ROYAL FOREST DEPARTMENT
Paholyothin Road, Bangkhen
Bangkok 10900

Tel. 579-1151/60, Ext. 260

Status: The Forest Products Research Division is an integral part of the Royal Forest Department, Ministry of Agriculture and Cooperatives. The Division was established in 1934 and subsequently expanded in 1940, 1952 and 1974. It moved to its present site in 1956.

Staff: 70 research officers (2 Ph.Ds)
6 technicians
5 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood technology, wood drying, timber mechanics, preservatives and wood preservation, sawn timber, plywood and board products, timber construction, wood chemistry including pulp and paper, minor forest products, and wood-based energy conversion.

Special facilities (information not available) Laboratory facilities include gas chromatography.

Publications and services: The Division holds an annual Forestry Conference and publishes research results in the proceedings of research conferences and seminars. It uses the library of the Royal Forest Department, information on which is not available.

Cooperation: The Division has received support from FAO and the United States Agency for International Development (USAID) and maintains cooperative links with many national and international agencies. It is a member of IUFRO.

Official working language: Thai
Official working language for international correspondence: English.

THAILAND

RESEARCH SUB-DIVISION
FOREST MANAGEMENT DIVISION
ROYAL FOREST DEPARTMENT
Paholyothin Road, Bangkhen
Bangkok 10900

Tel. 579 1151/60

Status: Three Sub-Divisions form integral parts of the Forest Management Division of the Royal Forest Department, Ministry of Agriculture and Cooperatives. These are: the Demonstration Forest Section established in 1964, the Forest Fire Control Section established in 1980, and the Southern Forest Management Sub-Division (Mangrove Forest Research Centre) established in 1983.

Staff: 42 research and development officers (2 Ph.Ds)
25 technicians
44 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Demonstration Forest Section: all aspects of silviculture and management of teak stands and associated natural forests and plantations.

Forest Fire Control Section: reduction of fire hazards and damages caused by forest fires; effects of forest fires.

Mangrove Forest Research Centre: all aspects of mangrove forests, especially as a fuelwood resource and as a factor in coastal environment control.

Special facilities: A herbarium and a xylarium with full-time curators.

Publications and services: The Sub-Divisions publish annual reports on fire control and on mangrove forest research. Research results are also published in the proceedings of research conferences and seminars, and in occasional technical papers.

Cooperation: The Sub-Divisions have close formal links with the National Research Council of Thailand, the National Environmental Board, the Forest Industry Organization, and with national universities. Formal international links are maintained with the Japanese Society for the Promotion of Science (JSPS). The Royal Forest Department is a member of IUFRO.

Official working language: Thai
Official working language for international correspondence: English.

THAILAND

FOREST ECONOMICS SUB-DIVISION
PLANNING DIVISION
ROYAL FOREST DEPARTMENT
Paholyothin Road, Bangkhen
Bangkok 10900

Tel. 579 1151/60

Status: The Forest Economics Sub-Division is an integral part of the Planning Division of the Royal Forest Department, Ministry of Agriculture and Cooperatives. It was established in 1973.

Staff: 12 research officers
2 other (secretarial)

Field stations: (information not available)

Principal fields of activity:

Research data collection in the following fields: timber trends; recovery rate of timber; production, distribution and consumption of charcoal; consumption and marketing of fuelwood; transportation of wood and lumber; economics of forest plantations.

Special facilities: (information not available)

Publication and services: Research results are published in the proceedings of research conferences and seminars, and in occasional reports. The Sub-Division uses the library of the Royal Forest Department, information on which is not available.

Cooperation: The Sub-Division is a member of IUFRO.

Official working language: Thai
Official working language for international correspondence: English.

THAILAND

RESEARCH SECTION
WATERSHED MANAGEMENT DIVISION
ROYAL FOREST DEPARTMENT
Paholyothin Road, Bangkhen
Bangkok 10900

Tel. 02|5792810

Status: The Research Section of the Watershed Management Division is an integral part of the Royal Forest Department, Ministry of Agriculture and Cooperatives. The Section was established in 1971.

Staff: 28 research and technical officers
3 other (secretarial)

Field stations: 15

Principal fields of activity:

Research supporting implementation of watershed rehabilitation, reforestation, erosion control, water quality and quantity studies, and meteorological studies.

Special facilities: None.

Publications and services: Research results are published in the proceedings of research conferences, seminars and colloquia, and in official research papers. The Section uses the libraries of the Royal Forest Department and of Kasetsart University.

Cooperation: The Research Section maintains close cooperative links with other Government Departments and has formal international links with USAID, the Canadian International Development Agency - Canadian University Services Overseas (CIDA-CUSO), East-West Center Hawaii, UNDP, and all members of the ASEAN/US Watershed Project. It is a member of IUFRO.

Official working language: Thai
Offiical working language for international correspondence: English.

E U R O P E
E U R O P A

AUSTRIA

INSTITUT FÜR PFLANZENPHYSIOLOGIE
(Institute of Plant Physiology)
KARL-FRANZENS-UNIVERSITÄT
Schubertstrasse 51
A-8010 Graz

Tel. 0316-830|5630
Cables:

Status: A research institute of the University of Graz, founded in 1867.

Staff: 6 research officers (6 Ph.Ds)
1 technicians
2 other (administrative|secretarial)

Principal fields of activity:

Anatomy, cytology, ecology, plant physiology, including stress physiology of spruce and physiology of air pollution effects, and plant pathology.
Training and development.

The research is conducted in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in the proceedings of rsearch conferences and division journals. The Institute issues the periodical "Phyton (Austria)" (a volume a year in two parts).

Cooperation: (information not available) The Institute is not a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

AUSTRIA

HÖHERE ABTEILUNG FÜR HOLZTECHNIK
VERSUCHSANSTALT FÜR HOLZINDUSTRIE
(Department of Wood Technology,
Research Institute for the Forest Industry)
Technikerstrasse 1-5 Tel. 02236-22650
A-2340 Mödling Cables:

Status: A public research institution established in 1924.

Staff: 8 research and development officers (8 Ph.Ds)
2 technicians
1 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Wood technology.
Training and management.

Special facilities: A xylarium.

Publications and services: Research results are published in annual reports. The library has 700 scientific and technical volumes; 15 subscriptions to international technical journals.

Cooperation: (information not available). The Institute is not a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

AUSTRIA

FACHGRUPPE FÜR FORST- UND HOLZWIRTSCHAFT
UNIVERSITÄT FÜR BODENKULTUR
(Faculty of Forestry, University of Soil Science)
Peter-Jordan-Strasse 82
A-1190 Vienna Tel. 342500

Status: A teaching and research faculty of the Universität für Bodenkultur. The institution was founded in 1808 as a School of Forestry, became a Forestry Academy in 1866 and a Faculty of the University in 1875.

Staff: 45 research and development officers (32 Ph.Ds)
10 technicians
13 other (administrative|secretarial)

Field stations: 2

Principal fields of activity:

Silviculture, ecology, yield research, logging, entomology, timber research, forest management, and torrent and avalanche control.
Twenty percent of the research programme is devoted to fuelwood and energy studies, including sociological aspects; use of pruning and logging residues; silviculture of fuelwood species and the effect of repeated cropping on the soil; inventory, growth and yield of fuelwood species; and the environmental impact of fuelwood production.
Training and development.

The research is conducted in the temperate and mountains zones.

Special facilities: The Faculty maintains a herbarium.

Publications and services: Research results are published in the proceedings of research conferences and seminars, and in the scientific journal "Zentralblatt für das gesamte Forstwesen" (four issues per year). There is a central library.

Cooperation: (information not available) The Faculty is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

AUSTRIA

ÖSTERREICHISCHES HOLZFORSCHUNGSINSTITUT
(Austrian Wood Research Institute)
Arsenal, Franz-Grill-Strasse 7
A-1031 Vienna

Tel. 0222178 26 23
Cables:

Status: A private agency of the Österreichische Gesellschaft für Holzforschung, founded in 1953.

Staff: 14 research and development officers (14 Ph.Ds)
15 technicians
4 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

The whole field of chemical and mechanical technology of wood, including pulp and paper.
Five percent of the research programme is devoted to fuelwood and energy studies, including harvesting and transport methods, density and calorific value, chemical content, and industrial technology of fuelwood and wood-based derivatives.
Development.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and in the publication "Holzforschung und Holzverwertung" - Mitteilungen der Österreichischen Gesellschaft für Holzforschung (bimonthly). The Institute also issues "Schrifttumskarteidienst" (Card Index Service) every fortnight. There is a library with 10,000 scientific and technical volumes; 700 subscriptions to international technical journals.

Cooperation: (information not available). The Institute is not a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

BELGIUM

CENTRE DE RECHERCHE ET DE PROMOTION FORESTIERES EN HAUTE BELGIQUE
Section: ECOLOGIE
FACULTE DES SCIENCES AGRONOMIQUES
2, Passage des Déportés
B-5800 Gembloux, Belgique Tél. 081 61.29.58

Statut: Institution universitaire créée en 1944, ayant pour objet de susciter promouvoir et encourager les recherches scientifiques et techniques susceptibles d'assurer le progrès de l'industrie et de l'agriculture. Le Centre dépend de l'Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture (IRSIA)(6 rue de Crayer, B-1050 Bruxelles, tél. 02|6488145).

Effectifs: 5 chercheurs (dont 2 avec doctorat)
2 techniciens
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Etablir la carte phytosociologique de Belgique.
Etude de la productivité stationnelle des essences forestières (bois d'oeuvre et biomasse ligneuse).
Elaboration d'une matrice d'aptitude des stations et évaluation de la productivité potentielle des forêts.
Aménagement biologique des cours d'eau non navigables.
Recherche socio-économique sur la production|utilisation du bois de feu.
Vulgarisation.

Principale zone écologique des activités de recherche: zone tempérée.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, les notes techniques et les revues scientifiques, et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Le Centre a une bibliothèque avec 4.811 volumes et tirés à part; 100 abonnements à des revues scientifiques et techniques.

Coopération: Les contacts internationaux officiels se limitent à la formation et à l'échange d'informations. Le Centre est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: français.

BELGIUM

CENTRE DE RECHERCHE ET DE PROMOTION FORESTIERES
SECTION: PEDOLOGIE
27, avenue Maréchal Juin
B-5800 Gembloux, Belgique

Tél. 81-610065
Adresse télégraphique:

Status: Institution universitaire dépendant de la Faculté des Sciences Agronomiques de l'Etat (2, passage des Déportés, B-5800 Gembloux, tél. 81-61.29.58). A l'origine, c'était le Centre d'Etudes des Sols Forestiers de Haute Belgique créé en 1957. En 1977, ce centre fut intégré dans un ensemble de 5 unités de recherche, regroupées sous le nom de "Centre de Recherche et de Promotion Forestières" (4 sections).

Effectifs: 3 chercheurs (dont 1 avec doctorat)
5 techniciens
1 autre (administratif/secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Etude de la vocation forestière des milieux naturels.
Recherche des techniques d'amélioration et de conservation des sols forestiers, y compris la sauvegarde contre la pollution atmosphérique.
Comportement nutritionnel et radiculaire des principales essences (hêtre, épicéa) sur substrat humifère oligotrophe.

Principale zone écologique des activités de recherche: zone tempérée.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans diverses revues scientifiques internationales.

Coopération: Les contacts internationaux se limitent à l'échange d'informations.
Le Centre est membre de l'IUFRO.

Langue officielle de travail: français.

BELGIUM

CENTRE DE RECHERCHE ET DE PROMOTION FORESTIERES (IRSIA)
Section: SYLVICULTURE et LIGNICULTURE
2, avenue de la Faculté d'Agronomie
B-5800 Gembloux, Belgique Tél. 081|61.19.84

Statut: Organisation universitaire installée à la Faculté des Sciences Agronomiques de Gembloux et subventionnée par l'Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture (IRSIA) dont le siège est: 6 rue de Crayer, B-1050 Bruxelles.

Effectifs: 1 chercheur
1 technicien

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Recherche de pieds-mères (ortets) de valeur, les fixer et les réjuvéniliser par drageonnage, greffage et écussonnage et ensuite les multiplier végétativement en macrobouturage et marcottage.
Essences en essais actuels: Prunus avium L., Fraxinus excelsior L., Alnus glutinosa Vill.

Installations spéciales: une miniserre expérimentale.

Publications et services: Les résultats de la recherche sont publiés dans des rapports annuels et dans des périodiques. Le Centre utilise la bibliothèque de la Faculté des Sciences Agronomiques de Gembloux.

Coopération: Le Centre maintient des contacts avec divers centres de recherche, notamment en France. Il n'est pas membre de l'IUFRO.

Langue officielle de travail: français

BELGIUM

STATION DE TECHNOLOGIE FORESTIERE DE L'ETAT
CENTRE DE RECHERCHES AGRONOMIQUES - GEMBLOUX
23, avenue Maréchal Juin
B-5800 Gembloux, Belgique

Tél. 0811612893
Télex: 59165 CRAGX

Statut: Organisme de recherche de l'Etat.

Effectifs: 5 ingénieurs (2 avec doctorat)
20 techniciens
et personnel administratif.

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Technologie du bois et de ses dérivés.
Protection du bois et de ses dérivés.
Valorisation énergétique des résidus des industries du bois et des végétaux par voie thermochimique.

Installations spéciales: installations pilotes (panneaux - lamellé collé); laboratoire d'essais; essais de densification et de gazéification; xylothèque.

Publications et services: Les résultats de la recherche sont publiés dans les revues internationales et congrès et dans les rapports techniques. Accueil de stagiaires (P.V.D. - pays industrialisés). La Station maintient une bibliothèque avec des volumes scientifiques et des revues.

Coopération: Maintient des contacts avec la Faculté des Sciences Agronomiques Gembloux et avec divers organismes de recherche étrangers. La Station est membre de l'IUFRO.

Langue officielle de travail: français.

BELGIUM

LISEC - STUDIECENTRUM VOOR ECOLOGIE EN BOSBOUW, V.Z.W.
(LISEC - Centre de Recherches Ecologiques et Forestières, A.S.B.L.)
Bokrijk
B-3600 Genk, Belgique
Tél. 011|362791

Statut: Organisme sans but lucratif, créé en 1949, s'occupant originalement de la recherche sur l'amélioration de la production forestière; par la suite, les recherches se sont étendues à l'aménagement et la protection de l'environnement.

Effectifs: 4 chercheurs pour les études forestières et 5 techniciens
10 chercheurs pour l'environnement et 17 techniciens
1 directeur et 4 administratifs

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Recherches, études, investigations et autres activités dans les domaines des forêts et de la biologie appliquée, y compris tous les aspects écologiques de l'environnement (génie sanitaire, technologie de l'environnement, bio-écologie, paysagisme, foresterie):

- Ecologie et génie sanitaire (examen de la qualité d'eau, traitement des eaux usées, écotoxicologie, analyse des déchets solides, recherche sur les zones de décharge, analyse de la qualité de l'air).
- Evaluation de l'impact environnemental.
- Pédologie et hydrologie (examen de la qualité des sols et recherche sur l'eau sous terre et sa circulation).
- Paysage et espaces verts (études écologiques, ressources naturelles et aménagement de l'environnement).
- Sylviculture, aménagement forestier, protection des plantes.

Installations spéciales: Un laboratoire agréé pour les analyses d'eau, de déchets solides et d'échantillons gazeux et liquides. Equipements pour spectrométrie et chromatographie, etc.

Publications et services: Rapports et publications en échange, et publications dans des revues spécialisées. Il y a une bibliothèque avec 5.000 livres environ et 100 périodiques.

Coopération: Echange d'informations avec d'autres institutions. Le Centre est membre de l'IUFRO.

Langue officielle de travail: néerlandais
Langues officielles de travail pour la correspondance internationale: anglais et français.

BELGIUM

RIJKSSTATION VOOR BOS- EN HYDROBIOLOGISCH ONDERZOEK
(Station de Recherches Forestières et Hydrobiologiques)
Duboislaan 14
B-1990 Groenendaal-Hoëilaart, Belgique Tél. 02|657.03.86

Statut: Créée en 1896, la Station dépend actuellement de l'Administration de la Recherche Agronomique, Ministère de l'Agriculture.

Effectifs: 7 chercheurs (4 pour la section forestière, 3 pour la section "Biologie animale"), dont 1 avec doctorat
7 techniciens
2 autres (administratifs)
11 ouvriers

Stations de recherche sur le terrain: 23 arbortums, 2 centres de vergers à graines, ± 150 expériences en forêt.

Principaux domaines d'activité:

Section forestière: Ecologie forestière - cartographie; Sylviculture production et éducation des peuplements forestiers, réserves forestières); Amélioration génétique d'environ 15 essences forestières.

Section "Biologie animale": Hydrobiologie et pisciculture; Cynégétique et faune sauvage.

Installations spéciales: Pépinière (3 ha), serre, parcs à clones; comptoir et sécherie de graines de l'état.

Publications et services: 6 séries de publications propres (Biologie forestière, Sylviculture, Protection des forêts, Hydrobiologie, Génétique forestière, Ecologie et phytosociologie forestière), 145 publications en total. Nombreuses publications dans des séries nationales et internationales, ainsi que dans des actes de congrès. La bibliothèque est une des plus complètes de Belgique concernant les forêts tempérées et l'hydrobiologie (environ 1000 périodiques pour la section forestière).

Coopération: Nombreux contacts internationaux, notamment dans le cadre de l'IUFRO et de la CEE. Missions occasionelles de consultation dans les pays en développement (génétique sylviculture). La Station est membre de l'IUFRO.

Langues officielles de travail: français et néerlandais
Langues officielles de travail pour la correspondance internationale: français et anglais.

BELGIUM

LABORATORIUM VOOR BOSBOUW
AFDELING LANDBEHEER
(Laboratoire forestier,
Division d'aménagement rural)
Kardinaal Mercierlaan 92
B-3030 Leuven, Belgique

Tél. 016|22.09.31
Télex: 23674 Kuleuv

Statut: Organisme universitaire faisant partie de la "Katholieke Universiteit Leuven", créé en 1981.

Effectifs: 3 chercheurs (dont 1 avec doctorat)
2 techniciens
1 administratif

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Etudes sur le chêne: régénération naturelle, taxonomie de Q. robur et petraea et hybrides, multiplication in vitro.
Etudes dendrologiques et dendrométriques d'essences forestières, y compris des essences tropicales.
Etudes écologiques en milieu forestier.
Etudes sur la vitalité et l'exploitabilité physique d'arbres en milieu urbain.
Enseignement et formation.

Installations spéciales: un herbier et une xylothèque.

Publications et services: Les résultats de la recherche sont publiés dans des revues techniques et scientifiques et diffusés à l'occasion des conférences et séminaires sur la recherche. Il y a une bibliothèque de travail particulière avec 900 volumes, ainsi qu'une bibliothèque facultaire.

Coopération: Le laboratoire mène des activités d'enseignement, de formation et de recherche intéressant les pays en développement. Il est disposé à renforcer les contacts de recherche avec les institutions de ces pays. Le laboratoire est membre de l'IUFRO.

Langue officielle de travail: néerlandais
Langues officielles de travail pour la correspondance internationale: français et anglais.

BELGIUM

UNITE DES EAUX ET FORETS
FACULTE DES SCIENCES AGRONOMIQUES
UNIVERSITE CATHOLIQUE DE LOUVAIN
Place Croix du Sud, 2
B.P. 4
B-1348 Louvain-la-Neuve, Belgique

Tél. 010|43.36.98
Télex: UCLB 59037

Statut: Institution universitaire

Effectifs: 6 scientifiques permanents (avec doctorat; 4 à temps plein, 2 à temps partiel)
13 chercheurs temporaires
2 administratifs permanents
21 techniciens (11 permanents, 10 temporaires)

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Etude du fonctionnement des écosystèmes forestiers, reproduction des arbres de phénotype supérieur par la méthode in vitro, influence des éclaircies sur le milieu et la production forestière, utilisation de la télédétection pour la mise en évidence de l'état phytosanitaire des arbres, étude des propriétés anatomiques des bois tempérés et tropicaux, relation entre la pratique sylvicole et les propriétés technologiques des bois produits, réaction entre les divers composés du bois et des matrices polymériques en vue d'un renforcement.

Installations spéciales: Analyses chimiques et anatomiques de matériaux divers par microscopie électronique et par spectrométrie; expertises dans la détermination anatomique des bois tempérés et tropicaux. Appareils dendrométriques, micro-ordinateur, miscroscopes optiques, microscope électronique à balayage, spectromètre X à sélection d'énergie, torche à plasma, réacteur, presses chauffantes, phytotron, serres chaudes et froides, machines d'essai technologique, champs d'essai, chambres de pisciculture.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les revues nationales et internationales. Il y a une bibliothèque avec 1.200 volumes; 28 abonnements à des revues techniques internationales.

Coopération: Divers projets conçus dans les cadre d'une coopération avec les pays en développement: guidance scientifique du programme de reboisement belgo-péruvien de Cajamarca; développement du volet forestier du programme d'aménagement intégré de Palmira (Equateur); collaboration au programme forestier du gouvernement d'Algérie; missions d'identification et organisation forestières au Nicaragua, Yemen septentrional, etc.; inventaire et mise en valeur des forêts naturelles de Madagascar; renforcement de l'Institut des recherches forestières de Tunisie; consultance dans différents pays du Sahel en matière de problèmes forestiers; missions d'experts en matière de sciage, collage de contre-plaqués, préservation et commercialisation des bois tropicaux; collaboration avec l'Institut des ressources naturelles du Mexique en matière de pisciculture; consultance scientifique dans le cadre d'un programme d'exploitation et reboisement d'une concession de 10.000 Ha dans le Bas-Zaïre.
La Faculté est membre de l'IUFRO.

Langue officielle de travail: français.

BELGIUM

UNITE DE GENIE RURAL
DEPARTEMENT DU MILIEU ET DE L'AMENAGEMENT
UNIVERSITE CATHOLIQUE DE LOUVAIN
Place Croix du Sud, 3
B-1348 Louvain-la-Neuve, Belgique

Tél. 010|418181
Adresse télégraphique: UCLB 59037

Statut: Organisme universitaire créé en 1953 et dépendant de l'Université Catholique de Louvain (Place de l'Université 1, B-1348 Louvain-la-Neuve, tél. 010|418181).

Effectifs: 3 responsables de la recherche et du développement (dont 2 avec doctorat)
1 technicien
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Enseignement.
Développement de capteurs de données.
Application de la locomotion hors routes.
Gestion de l'eau et des ressources en eau.
Développement des techniques énergétiques.
Inventaires des ressources en bois de feu.
Récolte et moyens de transport.
Briquettage (dérivé du bois).
10% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: zones sub-tropicales, tropicales humides et tempérées.

Installations spéciales: une diathèque et des bancs d'essais et d'expérimentations spéciaux.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans diverses revues techniques et scientifiques, et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Il y a une bibliothèque avec lecteur de microfiche; 15 abonnements à des revues techniques internationales.

Coopération: L'Unité mène des activités d'enseignement et de formation intéressant les pays en développement et compte des élèves provenant de 23|25 pays en développement. Elle est disposée à renforcer les contacts de recherche avec les institutions dans ces pays. L'Unité est membre de l'IUFRO.

Langue officielle de travail: français.

BELGIUM

ONDERZOEKSCENTRUM VOOR BOSBOW, BOSBEDRIJFS-
VOERING EN BOSPOLITIEK
RIJKSUNIVERSITEIT TE GENT
(Centre de Recherches de Sylviculture,
d'Aménagement et de Politique Forestière
de l'Université de Gand)
Geraardsbergse steenweg 267 Tél. 091|52.21.13
B-9231 Melle (Gontrode), Belgique Adresse télégraphique:

Statut: Organisme universitaire relevant de la Faculté des Sciences Agronomiques de l'Etat (Coupure 653, B-9000 Gand), créé en 1962. Au début, le Centre s'occupait presqu'exclusivement de l'analyse des techniques sylvicoles. Par la suite, la recherche a évolué, s'étendant aux terres arides et semi-arides.

Effectifs: 7 chercheurs (dont 3 avec doctorat)
10 techniciens
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Recherche sur la dynamique des peuplements forestiers.
Régénération naturelle; transformation et stabilité des ecosystèmes forestiers.
Boisement des zones arides.
Utilisation de la forêt.
Recherche socio-économique sur la production et l'utilisation de bois de feu.
Méthodes sylvicoles des essences de bois de feu.
Vulgarisation.
20% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: terres arides et semi-arides, et zones tempérées.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans des revues belges et étrangères et diffusés à l'occasion des conférences et séminaires sur la recherche. Les publications les plus importantes sont: "Silva Gandavensis" (au moins 1 par an); "Groene Band" (4 numéros|an); Rapporten S.E.B. (rapports du groupe de travail sur les aspects sociaux et économiques de l'utilisation des forêts). Il y a une bibliothèque (1.400 volumes) avec lecteurs de microfiche; 182 abonnements à des revues techniques internationales.

Coopération: Le Centre échange des informations avec d'autres institutions et mène des activités dans des pays en développement. Il a formé ou employé 5 nationaux provenant des pays en développement. Le Centre est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langues officielles de travail: néerlandais et français
Langues officielles de travail pour la correspondance internationale: français et anglais.

BELGIUM

CENTRE WALLON DU BOIS
rue de la Converserie, 44-46
B-6900 Saint-Hubert, Belgique

Tél. 061|61.15.55; 61.15.48
Adresse télégraphique:

Statut: Organisme public créé en 1961, dépendant de l'Administration de la Recherche Agronomique, Ministère de l'Agriculture (Chaussée d'Ixelles, 29-31, B-1050 Bruxelles).

Effectifs: 3 ingénieurs de développement
2 techniciens
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Etude et mise au point de machines pour la densification du bois en briquettes de chauffage (en collaboration avec la Station de Technologie Forestière de Gembloux).

Etude de l'utilisation des déchets ligneux à des fins énergétiques en industrie du bois; utilisation des écorces et des sciures comme source d'énergie dans les installations de séchage du bois en scierie (en collaboration avec l'entreprise SALMFOR).

Investigations à propos de la collecte de la biomasse (en collaboration avec le Centre d'application des recherches, Faculté des Sciences, Université Libre de Bruxelles).

Etude de la récolte des premières éclaircies résineuses sur les petites unités en Belgique et au Grand-Duché de Luxembourg (en collaboration avec la S.A. Papeterie de Belgique).

Principale zone écologique des activités de recherche: zone tempérée.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels.

Coopération: Les contacts internationaux officiels se limitent à la formation et aux échanges d'informations et de personnel. Le Centre est disposé à renforcer les contacts de recherche avec les institutions des pays en développement.
Il n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

BULGARIA

STATION D'EXPERIMENTATION DE LA FORET DE CHENES
Complexe Isgrev
8000 Burgas, Bulgarie Tél. 056|6.00.74

Statut: Institution publique du Ministère des Forêts, créée en 1961.

Effectifs: 12 chercheurs
10 techniciens
5 autres (administratifs|secrétaires)

Stations de recherche sur le terrain:

Culture et régénération d'arbres forestiers.
Ecologie de plants forestiers, essais de provenance, sylviculture, récolte et aménagement forestier, protection forestière, méthodes de récolte et leurs impacts sur les ecosystèmes forestiers.

Dix pourcent du programme de recherche sont consacrés à des études dendro-énergétiques.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les journaux scientifiques et dans les comptes rendus des conférences sur la recherche. La Station maintient une bibliothèque avec 4.000 volumes scientifiques et techniques.

Coopération: A présent, il n'y a pas d'activités de recherche dans les pays en développement, mais la Station est disposée et capable de renforcer les contacts de recherche avec les institutions de tels pays et avec celles des pays développés. La Station n'est pas membre de l'IUFRO.

Langue officielle de travail: bulgare
Langue officielle de travail pour la correspondance internationale: français, anglais et russe.

BULGARIA

STATION DE RECHERCHES SUR LES ESPECES FORESTIERES
A CROISSANCE RAPIDE
Rue Nove 18 Tél. 2243-43.52
5250 Svisthov, Bulgarie Adresse télégraphique:

Statut: Institution publique créée en 1958.

Effectifs: 17 responsables de la recherche et du développement (dont 9 avec doctorat)
8 techniciens
4 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Recherche socio-économique, sylviculture, rendement, comparaison avec d'autres combustibles.
10% du programme de recherche sont consacrés à la dendroénergie.

Principale zone écologique des activités de recherche: zone tempérée.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans d'autres publications et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Il y a une bibliothèque (5.000 ouvrages) avec lecteurs de microfiche.

Coopération: Les contacts internationaux se limitent aux échanges d'informations et de personnel. La Station est disposée à développer les contacts de recherche avec les institutions dans les pays en développement. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: bulgare
Langues officielles de travail pour la correspondance internationale: anglais, français et russe.

CYPRUS

KLADOS DASIKON EREVNON
(Forestry Research Division)
FORESTRY DEPARTMENT
Nicosia

Tel. 02140-2261
MINAGRI CY
Telex: 4660

Status: A Research Division of the Forestry Department, established in 1954.

Staff: 1 Senior Conservator of Forests
1 Senior Forest Officer
1 Forest Officer
1 Assistant Forest Officer
1 Forest Ranger

Field stations: None

Principal fields of research:

Mainly applied research, the results of which have a practical application in the regeneration of native forests, introduction and propagation of exotics, establishment of species trials, forest tree improvement through breeding and genetics, provenance trials, protection of forests from fires, insects and fungi.

Special facilities: A small laboratory with a photo-printing unit.

Publications and services: Research results are published periodically in technical reports and in the Department's Annual Report. The Forestry Department possesses a library.

Cooperation: The Department exchanges information with other national research agencies. It is willing and in a position to develop research links with institutions in developing countries. The Department is a member of IUFRO.

Official working language: Greek
Official working language for international correspondence: English.

CZECHOSLOVAKIA

ŠTÁTNY DREVÁSKY VÝSKUMNÝ ÚSTAV
(State Forest Products Research Institute)
Lamačská 1
CS-844 11 Bratislava

Tel. 37.33.01
Cables: DREVOSKUM BRATISLAVA
Telex: 93333 SDVU C

Status: A public research institute founded in 1947.

Staff: 185 research officers
153 technicians
134 other

Field stations: 4

Principal fields of activity:

Fundamental wood research, including wood properties, quality upgrading, protection, drying and utilization; technology research and development for the manufacture of new wood-based materials and wood substitutes; research on the application of chemical methods and products in the wood industries; research on mechanization and automation in wood industries; research on wood industry economy and forecasting; assistance to the wood industries in the transfer of research and development results to industrial practice, and advisory services for establishing new wood industry plants.

Training of research and development staff.

Special facilities: None

Publications and services: The Institute issues the following publications: "Drevo" (Wood) (monthly); "Drevársky Výskum" (Wood Research)(quarterly); "Drevárska Dokumentácia" (Wood Abstracting Card Service)(20 batches per year); "Riporty Šdvú" (Reports of the Institute)(irregularly); "Bibliografia Šdvú" (Bibliography of the Institute)(annually); and other non-periodical publications. The Institute's library possesses 21,000 scientific and technical volumes and subscribes to 270 scientific and technical journals. Microfiche readers are available.

Cooperation: The Institute maintains wide contacts with leading forest products research institutions throughout the world by mutual visits for exchanging information and experiences and by attending conferences, seminars and symposia. It assists 45 organizations in COMECON countries (for which it acts as coordinating centre) in solving their research problems and provides technical assistance to developing countries by carrying out feasibility studies and rendering consultancy services. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: Czech
Official working languages for international correspondence: Russian, English and German.

CZECHOSLOVAKIA

LESNICKÁ FAKULTA VYSOKÉ ŠKOLY ZEMĚDĚLSKÉ V BRNĚ
(Faculty of Forestry, University College of Agriculture)
Zemědělská 3
CS-613 00 Brno

Tel. 604
Telex: 62489

Status: A university teaching and research department, founded in 1919.

Staff: 65 research officers (14 Ph.Ds)
27 technnicians

Field stations: 1

Principal fields of activity:

Physiology and ecology of forest plants; tending and regeneration of forest trees; vegetative propagation; provenance trials; insect pests in air-polluted forest stands; impact of air pollution on forest stands; ergonomic assessment of forest machinery; harvesting methods and their effects on forest ecosystems; development of a chipper for processing young standing trees
Training and extension.

The research is conducted mainly in temperate zones.

Special facilities: A herbarium and a xylarium.

Publications and services: Research results are published in information bulletins, abstracts of research reports, proceedings of research conferences and seminars, and in the periodicals "Acta Universitatis Agriculturae (Brno)"(quarterly), Informační zpravodaj (Information Bulletin)(quarterly) and "Zpravodaj lesnické fakulty (annual). The Faculty uses the central university library which has 350,000 scientific and technical volumes. Microfiche readers are available.

Cooperation: The Faculty of Forestry is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Czech
Official working languages for international correspondence: English, German, Russian.

CZECHOSLVAKIA

ÚSTAV APLIKOVANÉ EKOLOGIE A EKOTECHNIKI
VYSOKÉ ŠKOLY ZEMĚDĚLSKÉ V PRAZE
(Institute of Applied Ecology and Ecotechnology
of the Agricultural University of Prague)
CS-281 63 Kostelec nad Černými lesy 1 Tel. 203|97052

Status: A teaching and research institution of the Agricultural University of Prague.

Staff: 75 staff members

Field stations: 3

Principal fields of activity:

Applied ecology and ecotechnology, forest production and forest management.

Special facilities: Greenhouses, tree nurseries, and an arboretum.

Publications and services: The Institute publishes the magazine "Sylvae Cultura Tropica et Subtropica". It maintains a library with 21,000 volumes.

Cooperation: The Institute collaborates with countries of the Council of Mutual Economic Aid. It is a member of IUFRO.

Official working language: Czech
Official working language for international correspondence: English.

CZECHOSLOVAKIA

VÝZKUMNÝ ÚSTAV LESNÍHO HOSPODÁRSTVI A MYSLIVOSTI
(Forestry and Game Management Research Institute)
Jíloviště Strnady 136
CS-255 01 Praha 5 - Zbraslav Tel. 591612-17

Status: A research institute of the Ministry for Forestry and Water Conservation and co-ordination centre for forestry research, founded in 1921.

Staff: 63 scientists
105 research and development officers (with doctorate)
107 technicians
57 other (administrative|secretarial)

Field stations: 3

Principal fields of activity:

Silviculture, physiology of trees, tissue culture, air pollution impact on forests. provenance trials, insect pests, forest diseases, forest machinery, logging, transport of wood, forest roads, economics, ecology, game management, hunting, information, introduction of research results into forestry practice.

Special facilities: An arboretum and a game reserve.

Publications and services: Research results are published in the proceedings of conferences, in special project reports, in national and international journals, and in the following publications of the Institute: Práce VÚLHM, Zprávy lesnického výzkumu, Communicationes Inst. For. Čechosloveniae, Bulletin TEI. The library has 20,000 scientific and technical volumes and has access to some 400 international journals.

Cooperation: The Institute cooperates on an international basis mainly within the framework of COMECON. Some of its members worked as researchers in Ghana, Cuba, etc. The Institute houses the East-European Centre for Air Pollution Impact on Forests ECE). It is willing to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: Czech
Official working language for international correspondence: English.

CZECHOSLOVAKIA

"ARBORETUM MLYŇANY"
ÚSTAV DENDROBIOLÓGIE
CENTRA BIOLOGICKI-EKOLOGICKÝCH VIED SLOVENSKEJ AKADÉMIE VIED
("Arboretum Mlyňany", Institute of Dendrobiology,
Centre of Biologic-Ecological Sciences of the Slovak
Academy of Sciences)
Vieska nad Žitavou
CS-951 52 Slepčany Tel. Nitra 85200

Status: Arboretum founded in 1892. Enrichment of introduced woody plant collections since 1892. Since 1954, research into the biology of woody plants. The Institute was established in 1967.

Staff: 27 research officers (13 with academic degree)
20 technicians
44 other

Field stations: 1

Principal fields of activity:

Distribution of woody plants and their variability; biological and production qualities of the gene pool of alochthonal and autochthonal woody plants; introduction; biologic-ecological aspects of the creation and protection of functional greenery, particularly in technical landscape; physiology of reproduction, adaptation and growth of woody plants. Rational utilization of the gene pool and of woody plant breeding.

Special facilities: A herbarium, and a collection of ca. 2,000 taxa of autochthonal and introduced woody plants.

Publications and services: The Institute publishes periodical studies - Folia dendrologica (one number per year, in Russian, English and German), an Index seminum, with a bibliography of the previous year, and edits "Acta dendrobiologica"(1-3 monographical studies per year). It also publishes studies of scientific events (irregular issues). The library of the Institute has about 11,000 scientific and specialized books.

Cooperation: The Institute cooperates with several national and foreign research with regard to problems connected with the introduction of trees and shrubs. It collaborates intensively with some 350 institutes in the world in the field of extension and exchange of tree and shrub species. The Institute is a member of IUFRO.

Official working language: Slovak
Official working language for international correspondence: English.

CZECHOSLOVAKIA

VÝSKUMNÝ ÚSTAV LESNÉHO HOSPODÁRSTVA
(Forest Research Institute)
K. Marxa 22
CS-960 92 Zvolen

Tel. 0855|273.11
Telex: 72284 VULH

Status: An institution of the Ministry of Forest and Water Management.

Staff: 67 researchers
6 technicians
195 economists
46 craftsmen and others

Field stations: 7

Principal fields of activity: Tree breeding, silviculture, forest nurseries, forest pathology, game management, forest inventory, integrated use, forest economics, logging, transport, forest roads, timber yards, poplars.

Special facilities: None

Publications and services: Research results are published in scientific papers, "Acta Instituti Forestalis Zvolenensis", forestry studies, conference and symposia proceedings, "Folia Venatoria", "Forestry Information, Economy and Forest Management". The Institute also publishes a Journal of Forestry, the bulletin "VÚLH, Zprávy lesníckeho výskumu", and a list of new forestry and game management literature. There is a library open to all users, as well as loan services, reprographic, translation and consultant services, and exchanges with other libraries.

Cooperation: The Centre maintains links with the Wood Technology Research Institute in Bratislava, the Research Institute of Forestry and Game Management in Jíloviště-Strnady, the College of Forestry and Wood Technology in Zvolen, the College of Agriculture in Brno, Czechoslovak Academy of Sciences. The Centre is a member of IUFRO.

Official working language: Slovak
Official working languages for international correspondence: Russian, English and German.

DENMARK

SKOVTEKNISK INSTITUT
(Danish Institute of Forest Technology)
Amalievej 20
DK-1875 Copenhagen

Tel. (01) 244266
Telex: 19765 DSH DK

Status: A private research institution founded in 1967.

Staff: 10 research officers (7 Ph.Ds)

Field stations: None

Principal fields of activity:

Logging and transport; small tree harvesting; exploitation of wood residues; production of decorative greenery and Christmas trees; occupational safety and health in forestry; and development of programmes for micro-computers in forestry.

Sixty percent of the research programme is devoted to fuelwood and energy studies, including socio-economic aspects; silviculture of fuelwood species; yield, harvesting, properties, storage and drying; industrial technology of fuelwood processing and conversion; improved stove design; small-scale processors and generators; use of residues; pelletization; and comparison with alternative fuels.

Training, extension and development.

The research is conducted mainly in the temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research seminars, and in other publications which are issued at irregular intervals (ca. 5 per year). The library has 4,000 scientific and technical volumes; 10 subscriptions to international technical journals.

Cooperation: International links include exchange of information, funding of joint projects and cooperation with the Nordic Forest Work Study Council (NSR), the International Energy Agency, and the EEC research programme "Wood - a Renewable Raw Material". The Institute is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Danish
Official working languages for international correspondence: English, French and German.

DENMARK

ZOOLOGISK INSTITUT
DEN KGL. VETERINAER- OG LANDBOHØJSKOLE
(Department of Zoology, The Royal Veterinary
and Agricultural University)
Bülowsvej 13
DK-1870 FRB. C Copenhagen Tel. (1) 371788

Status: A department of the Royal Veterinary and Agricultural University.

Staff: 5-10 research officers (4 Ph.Ds)
3-5 technicians
2 other (administrative)

Field stations: None

Principal fields of activity:

General and applied zoology, including forest zoology and entomology.

Special facilities: -

Publications and services: The Department does not have its own publication series. It has a library with some 1000 volumes and 30 international journals, but has also easy access to the main Agricultural Library.

Cooperation: The Department participates in Nordic Forest Entomological Cooperation and NW European cooperation. It is a member of IUFRO.

Official working language: Danish
Official working language for international correspondence: English.

DENMARK

SKOVBRUGSINSTITUTTET
(Department of Forestry)
The Royal Veterinary and Agricultural University
Thorvaldsensvej 57
DK-1871 Frederiksberg C

Tel. (1) 351788
Cables:

Status: A department of the Royal Veterinary and Agricultural University founded in 1863.

Staff: 10 research officers (5 Ph.Ds)
1 technician
2 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Silviculture, forest planning, forest mensuration, forest technology, and forest engineering.
Education.

The research is conducted only in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in periodic reports and in the proceedings of research conferences and seminars. The library has approximately 100 scientific and technical volumes; about 30 subscriptions to international technical journals.

Cooperation: At present there are no research activities in developing countries, but the Department is willing and in a position to strengthen research links with institutions in such countries. It is a member of IUFRO.

Official working language: Danish
Official working languages for international correspondence: English and German.

DENMARK

DEN KGL. VETERINAER- OG LANDBOHØJSKOLE'S ARBORET
(Arboretum of the Royal Veterinary and Agricultural University)
Kirkegårdsvej 3A
DK-2970 Horshølm
Tel. 02/860641

Status: Established in 1936 as an extension of the Forest Botanic Garden, which was founded in 1838. It is an institute of the Royal Veterinary and Agricultural University.

Staff: 9 research officers (2 with Dr. Sc., 1 Ph.D)
3 technicians (1 laboratory worker)
2 other (secretarial)

Field stations: 1

Principal fields of activity:

Dendrology.
Forest genetics (temporate and tropical species).
Forest history.

Special facilities: Administrative buildings and laboratories. Greenhouses, a workshop, a nursery and a botanical tree collection.

Publications and services: The Arboretum publishes "Forest Tree Improvement", an occasional paper; articles in international and national periodicals; and provides materials for teaching in Botany. Consultancy services to developing countries. The library has a comprehensive collection of books and periodicals on the subjects of dendrology and forest genetics.

Cooperation: The Arboretum collaborates with national forestry research institutes, universities and forest tree breeding stations. At the international level, with nordic countries, FAO and IUFRO. It is a member of IUFRO.

Official working language: Danish
Official working language for international correspondence: English.

DENMARK

DANIDA SKOVFRØCENTER
(DANIDA Forest Seed Centre)
Krogerupvej 3A
DK-3050 Humlebaek

Tel. 45-2-190500
Cables: FORESTSEED HUMLEBAEK

Status: A public institution of the Danish International Development Agency (DANIDA) established in 1969 and programmed until 1986.

Staff: 4 research and development officers (2 Ph.Ds)
3 technicians
1 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Provenance and seed research, mainly on Tectona grandis and Gmelina arborea. The Centre's main activity is the procurement and distribution of seed in semi-bulk quantities and supply of information on seed handling.
Fifteen percent of the research programme is devoted to fuelwood studies, involving choice of species and provenances, tree breeding, and seed research.
Training, extension and development.

The research is conducted mainly in semi-arid, dry tropical and subtropical zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, circulars and technical notes, and are disseminated through research conferences and seminars. The library possesses 2,000 scientific and technical volumes; 20 subscriptions to international technical journals.

Cooperation: The Centre was established to foster provenance and seed research and its activities have been mainly in Central America, India, Nepal and Thailand. International links involve training, exchange of staff, exchange of information and direct financial assistance. Currently, 2 research and development staff from Thailand are working in the Centre and three others (India 2, Nicaragua 1) are being trained. The Centre is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Danish
Official working language for international correspondence: English.

DENMARK

STATENS FORSTLIGE FORSØGSVAESEN
(The Danish Forest Experiment Station)
Springforbivej 4
DK-2930 Klampenborg
Tel. (01) 63 01 62

Status: A public national forestry research institution founded in 1901.

Staff: 14 research officers (5 with doctorate)
6 technicians
9 other

Field stations: None

Principal fields of activity:

Yield studies, thinning experiments in high forests (i.e. not coppice), pathology, provenance research, fertilization and irrigation experiments, planting trials, recreation research, "acid rain".

Special facilities: (information not available)

Publications and services: Research results are mainly published in "Det forstlige Forsøgsvaesen i Danmark".

Cooperation: The Station exchanges research information with national and international research organizations and cooperates with Scandinavian research institutes. It is a member of IUFRO.

Official working language: Danish
Official working language for international correspondence: English.

DENMARK

AFDELINGEN FOR TRATEKNIK
TEKNOLOGISK INSTITUT
(Department of Wood Technology,
Technological Institute)
Postboks 141
DK-2630 Tåstrup

Tel. 02|996611
Cables: TEKNOLOGISK
Telex: 33416 TIDK

Status: The Institute was founded in 1906. It is an independent non-profit organization forming a polytechnological industrial development centre.

Staff: 1 research officer (Ph.D)
14 technicians
5 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Wood and wood-based materials, mechanical properties, moisture properties, emission of formaldehyde, grading and drying of wood.
Furniture studies, production engineering, wood processing, NC and CAD|CSM technology.
Wood preservation, biological deterioration, microbiological testing.
Training and development.
Consultancies and testing.

The research is conducted mainly in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and in books, pamphlets and information folders. The Department issues the journal "Tra og Industri" ten times a year. The library subscribes to 20 international technical journals.

Cooperation: The Department exchanges information with other national research agencies. It holds meetings, seminars and working groups with EEC members. The Department is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Danish
Official working language for international correspondence: English.

DENMARK

HEDESELSKABET
(Danish Land Development Service)
P.O. Box 110
DK-8800 Viborg

Tel. 06/62.61.11
Telex: 66228 danla dk

Status: A private institution founded in 1866.

Staff: 450 (approx.), of which 18 in the Research Department.

Field stations: None

Principal fields of activity:

Soil research, improvement of forest trees, experiments with fertilizers, forestry and shelterbelt planting.

Administration and management of Hedeselskabet's forest estate (11,000 ha) and management of further 2,000 private and public forests (70,000 ha of total forest area managed and supervised).

Planning, implementation and maintenance of over 1,000 km of shelterbelts and greenbelts in Denmark for soil erosion control and embellishment of landscapes and towns. Hedeselskabet renders consultancy services to several municipalities in relation to maintenance of greenbelts and parks.

Special facilities: -

Publications and services: Research results are published in the Company's periodical (6 issues per year, 10,000 copies) and in special reports. The library subscribes to 40 international technical journals.

Cooperation: Hedeselskabet cooperates with the Danish Ministries of Agriculture and Environment and carries out projects for, among others, the EEC, UNSO, UNDP and DANIDA.

Official working language: Danish
Official working language for international correspondence: English.

FINLAND

PUULABORATORIO
VALTION TEKNILLINEN TUTKIMUSKESKUS
(Forest Products Laboratory,
Technical Research Centre of Finland)
Puumiehenkuja 2A
SF-02150 Espoo

Tel. 0/4561
Telex: 122972 vttha sf

Status: A public research institution founded in 1942.

Staff: 41 research officers
42 technicians and others

Field stations: -

Principal fields of activity:

Research into the structure and properties of wood, as well as into technology related to raw materials, manufacture, properties, further processing and use of wood products.

Special facilities: -

Publications and services: Research results are published in serial publications such as "VTT Tutkimuksia" (VTT Research Reports), "VTT Tiedotteita" (VTT Research Notes) and in annual reports.

Cooperation: International cooperation regarding the exchange of information, and participation in international research and standardization organizations and joint research projects. The Centre is a member of IUFRO.

Official working languages: Finnish and Swedish
Official working language for international correspondence: English.

FINLAND

TEKNILLINEN KORKEAKOULU, PUUNJALOSTUSOSASTO
SELLULOOSATEKNIIKAN LABORATORIO
(Helsinki University of Technology,
Department of Forest Products,
Laboratory of Pulping Technology)
Vuorimiehentie 1
SF-02150 Espoo

Tel. 358-0|460 144
Telex: 125161 htkk sf

Status: A university teaching and research institution. The Department of Forest Products was founded in 1943.

Staff: 8 research and faculty staff (2 Ph.Ds)
3 technicians
1 other (administrative/secretarial)

Field stations: -

Principal fields of activity:

Manufacture of chemical and chemi-mechanical pulp.
Bleaching of chemical, chemi-mechanical and mechanical pulp.

Special facilities: -

Publications and services: Research results are published in international technical and scientific journals, in the proceedings of research conferences, in special reports and in annual reports. The Library of the Department has over 10,000 scientific and techical volumes and subscribes to about 180 international technical journals.

Cooperation: The Laboratory exchanges research information with national and international research organizations. It is not a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

HELSINGIN YLIOPISTON METSÄNARVIOIMISTIETEEN LAITOS
(University of Helsinki, Department of Forest
Mensuration and Management)
Unioninkatu 40 B
SF-00170 Helsinki

Tel. 90/19241
Telex: 125181 hyfor sf

Status: Teaching and research at university level since 1907.

Staff: 6 research officers (2 Ph.Ds)
2 other (administrative)

Field stations: 1

Principal fields of activity:

Inventory methods, growth and yield, forest planning, remote sensing, statistical methods.

Special facilities: -

Publications and services: Research results are published in the Journal of the Society of Foresters and in research notes of the Department, and are occasionally disseminated through research seminars. There is a forestry library nearby, as well as computer facilities.

Cooperation: The Department cooperates in several foreign projects such as those concerned with the formulation of a development plan for forestry and forest industries in the State of Guerrero in Mexico (1982-86) and in the Shume forest management project in Tanzania (1984-86). Educational and research cooperation exists with other Nordic countries, especially regarding the use of satellite imagery for forest inventories. At present, a researcher from China works for his dissertation in the Department. The Department is a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

HELSINGINYLIOPISTON METSÄTEKNOLOGIAN LAITOS
(University of Helsinki, Department of Logging
and Utilization of Forest Products)
Unioninkatu 40 B
SF-00170 Helsinki 17

Tel. 19241
Cables:

Status: A university teaching and research institution. Teaching in forest technology started in 1912, but the Department of Logging and Utilization of Forest Products was founded in 1930, when the first professor was appointed.

Staff: 8 research officers (2 Ph.Ds)
1 technician
2 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Forestry and wood technology.

The research is conducted mainly in the temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in the journal of the Society of Forestry and in research notes of the Department, and are occasionally disseminated through research seminars. The library has about 5,000 scientific and technical volumes; 10 subscriptions to international technical journals.

Cooperation: International cooperation includes training and exchange of staff. At present, 4 research and development staff from Tanzania, China, India and Thailand are working or being trained in the Department. Joint research has been carried out with the University of Dar es Salaam, Tanzania. The Department is a member of IUFRO.

Official working language: Finnish
Official working languages for international correspondence: English and German.

FINLAND

HELSINGIN YLIOPISTON SUOMETSATIETEEN LAITOS
(University of Helsinki, Department of Peatland Forestry)
Unioninkatu 40 B
SF-00170 Helsinki
Tel. 90|19241

Status: A university teaching and research institution, founded in 1950.

Staff: 4 research officers (2 Ph.Ds)
1 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Ecology and forestry use of peatlands.

The research is conducted mainly in the temperate zone.

Special facilities: -

Publications and services: Research results are published mainly in the Journal of the Society of Foresters. The Department maintains a library with 800 scientific and technical volumes and subscribes to various scientific and technical journals.

Cooperation: International cooperation in the form of training and exchange of staff. Research scientists from China, Japan and Canada have recently been working in the Department. The staff of the Department has collaborated with other institutions abroad, especially in Canada, in the field of peatland forestry research. The Department is a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

HELSINGIN YLIOPISTO, METSÄNHOITOTIETEN LAITOS
(University of Helsinki, Department of Silviculture)
Unioninkatu 40 B
SF-00170 Helsinki
Tel. 01 19241
Telex: 125 181 hyfor sf

Status: An academic teaching and research institution.

Staff: 2 professors, 2 assistant professors, 2 assistants, 11 lecturers (15 Ph.Ds)
1 secretary
2 other (administrative|clerical)

Field stations: 1

Principal fields of activity:

Silviculture, forest ecology, forest soil science, tropical forestry, effects of air pollution on forest ecosystems, forest regeneration.

Special facilties: IRGA system and meteorological station at the Forestry Field Station of Hyytälä, southern Finland.

Publications and services: Research results are published mainly in international journals. The Department also publishes research notes (most articles in Finnish). The Departmental library has approx. 5,000 scientific volumes; 20 subscriptions to international technical journals. The Forest Library of the University is located in the same building.

Cooperation: The Department is actively participating in tropical forestry research in Thailand, Indonesia, Sudan and Mexico. It also collaborates with institutions in the nordic countries and with the USSR. It is a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

METSÄNTUTKIMUSLAITOS
(The Finnish Forest Research Institute)
Unioninkatu 40 A
SF-00170 Helsinki 17

Tel. 0-661401
Telex: 125181 HYFOR SF

Status: A public research institution of the Ministry of Agriculture, founded in 1917.

Staff: 215 research officers (45 Ph.Ds)
400 technicians
100 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Silviculture, peatland forestry, soil science, forest protection, forest inventory and yield, forest technology, and forest economics.
Seven percent of the research programme is devoted to fuelwood and energy studies, including socio-economic aspects; silviculture and improvement of fuelwood species; yield and harvesting methods; properties and processing of fuelwood; environmental impact.

The research is conducted mainly in the temperate zone.

Special facilities: None

Publications and services: Research results are published in "Communicationes Instituti Forestalis Fenniae" (10 issues per year) and in "Folia Forestalia" (approx. 50 volumes per year). The library has 40,000 scientific and technical volumes; 120 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: International cooperation includes exchange of staff. The Institute is actively involved in research cooperation in developing countries, especially in Zambia, in the fields of silviculture, forest tree breeding, and forest entomology. At present, five research and development staff from Zambia and five from Tanzania are being trained in the Institute. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

OY KESKUSLABORATORIO - CENTRALLABORATORIUM AB
(The Finnish Pulp and Paper Research Institute)
Tekniikantie 2
P.O. Box 136
SF-00101 Helsinki 10

Tel. 460 411
Cables: CENTRALLAB
Telex: 121030 KCL SF

Status: A private independent joint stock company. The Institute was founded in 1916 as a central research institute for the Finnish pulp, paper and paperboard industries.

Staff: (information not available)

Field stations: None

Principal fields of activity:

Pulp and paper manufacturing processes, raw materials, especially wood, environmental protection, energy, paper and board converting, printing and packaging.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and communications from the Institute. There is a library with microfiche readers.

Cooperation: (information not available)

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

TYÖTEHOSEURA, METSÄOSASTO
(Forest Department, Work Efficiency Association)
Melkonkatu 16 A
P.O. Box 28
SF-00211 Helsinki 21

Tel. 90-6922 445
Cables:

Status: The Work Efficiency Association is a private institution founded in 1924. The Forestry Department was established in 1942.

Staff: 9 research officers (1 Ph.D)
2 technicians
2 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Wood harvesting methods in farm forestry; use of wood and peat for heating in farms; forest ergonomics.
Fifty percent of the research programme is devoted to fuelwood and energy studies, including assessment of fuelwood potential, production, use of pruning and logging residues, harvesting and transport methods, methods of conversion of fuelwood into energy, and improved stove design.
Extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and in the following publications: Teho-periodical (10 issues per year, 4 of which mainly on forestry) and Forest Reports (15 issues per year).

Cooperation: International links involve exchange of information and funding of joint research projects. The Department is a member of IUFRO.

Official working language: Finnish
Official working language for international correspondence: English.

FINLAND

METSÄHALLITUS, KEHITTÄMISJAOSTO
(National Board of Forestry, Development Section) Tel. 358 91 82061
SF-97130 Hirvas Cables:

Status: A research and development institution of the National Board of Forestry, founded in 1955.

Staff: 7 research and development officers
5 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Logging and transport technology; silviculture technology; work studies.
Five percent of the research programme is devoted to fuelwood studies, particularly harvesting and transport methods.
Development.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in serial publications such as "Tutkimusselostus" (Research Report)(1-5 issues per year) and "Koeselostus" (Trial Report)(20-25 issues per year).

Cooperation: (information not available) The National Board of Forestry is not a member of IUFRO.

Official working language: Finnish
Official working languages for international correspondence: English and Swedish.

FRANCE

CENTRE NATIONAL DU MACHINISME AGRICOLE DU GENIE
RURAL DES EAUX ET DES FORETS (CEMAGREF)
Parc de Tourvoie
F-92160 Antony

Tél. (1) 666.21.09
Télex: 204565

Statut: Organisme public qui est une fusion du Centre Technique du Génie Rural des Eaux et des Forêts et du Centre d'Etudes et d'Expérimentation du Machinisme Agricole.

Effectifs: 30 responsables de la recherche et du développement (dont 5 avec doctorat)
25 techniciens
12 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Technologie des équipements de production et de transformation des produits agricoles et forestiers.
Ressources en eau.
Hydrolique agricole.
Montagnes et zones défavorisées.
Production et économie agricoles.
Reboisement, sylviculture, exploitation, protection et chasse.
Formation et vulgarisation.
7% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: terres semi-arides et zones tempérées et montagneuses.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherches sont publiés dans les rapports d'opération, dans les publications du CEMAGREF: Nouvelles du CEMAGREF (trimestrielles); Bulletin d'information (mensuel); Etudes du CEMAGREF (bimestrielles); Cahier d'informations techniques (trimestriel), ainsi que dans des revues spécialisées. Ils sont aussi diffusés à l'occasion des séminaires sur la recherche. Le Centre donne appui technique aux services de terrain et aux industriels. Il maintient une bibliotèque (5.000 volumes) avec lecteurs de microfiche; 80 abonnements à des revues techniques internationales.

Coopération: Le Centre a des contacts internationaux en matière de formation et d'échanges de personnel et d'informations. Il a accueilli 12 chercheurs provenant des pays en développement (Afrique de l'Ouest, Afrique de l'Est, Afrique du Nord et Asie du Nord-Est). Le Centre est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

GRECO "Ecologie des forêts méditerranéennes"
FACULTE DES SCIENCES, DE DROIT ET D'ECONOMIE
D'AIX-MARSEILLE III
CENTRE DE SAINT-JEROME
Rue H. Poincaré
F-13397 Marseille, Cédex 13 Tél. 91|98.90.10, poste 535

Statut: Groupement de recherche du CNRS français réunissant *) des laboratoires universitaires (Institut d'écologie et de paléoécologie méditerranéennes de la Faculté des Sciences de St-Jérôme à Marseille) *) du CNRS (C.E.P.E. de Montpellier) *) de l'I.N.R.A. (Station de recherche forestière d'Avignon).

Effectifs: Une soixantaine de chercheurs et enseignants, dont 22 professeurs et directeurs de recherche.

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Structure et dynamique des écosystèmes forestiers méditerranéens et de leurs stades de dégradation: typologie et analyse des structures; successions, production, productivité et effet des perturbations; fonctionnement des écosystèmes: cycles biogéochimiques, pédogénèse, écophysiologie.

spéciation et adaptations en région méditerranéenne: biologie des populations; génécologie et biosystématique; recherches morphogénétiques sur les chênes méditerranéens.

Analyse des facteurs historiques: études palynologiques; études dendrochronologiques; études pédoanthracologiques.

Action des déprédateurs sur les essences forestières méditerranéennes.

Applications de l'écologie aux méthodes sylvicoles en région méditerranéenne.

Installations spéciales: Laboratoires d'écologie, de pédologie, d'analyses des données, de cartographie, de dendrochronologie; terrains expérimentaux, serres, chambre froide, herbiers.

Publications et services: Responsable de la parution de la revue "Ecologia Mediterranea". La bibliothèque contient plusieurs milliers d'ouvrages et de périodiques répartis entre les divers laboratoires intéressés.

Coopération: Participe activement,par le biais du 3ème cycle d'écologie, à la formation des écologistes et des forestiers des pays du pourtout méditerranéen. Cinq à 10 chercheurs sont accueillis chaque année; direction de recherche dans le cadre du doctorat de 3ème cycle, de docteur ingénieur et de docteur d'état.
La Faculté est membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

LABORATOIRE DE PHYTOSOCIOLOGIE ET DE CARTOGRAPHIE VEGETALE
UNIVERSITE AIX-MARSEILLE I
Place Victor Hugo, 3 — Tél. (91) 95.90.71
F-13331 Marseille Cédex 3 — Adresse télégraphique:

Statut: Organisme universitaire dépendant de l'Université Aix-Marseille I, établi en 1946 pour la recherche et la formation.

Effectifs: 5 chercheurs (dont 1 avec doctorat)
1 technicien

Stations de recherche sur le terrain: 1

Principaux domaines d'activité:

Recherche en phytosociologie et cartographie végétale.
Dynamique de la végétation.
Protection de la nature, influence des opérations de débroussaillement mécanique sur la végétation.
Prise en compte de la végétation naturelle dans l'aménagement général du territoire et lutte contre les incendies.
10% du programme de recherche sont consacrés à la dendroénergie.
Formation.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses.

Installations spéciales: un herbier et réglettes dendrométriques.

Publications et services: Les résultats de la recherche sont publiés dans les revues françaises et les Annales de l'Université Aix-Marseille I. Il y a une bibliothèque avec 500 volumes; 5 abonnements à des revues scientifiques internationales.

Coopération: (informations pas disponibles) Le Laboratoire n'est pas membre de L'IUFRO.

Langue officielle de travail: français.

FRANCE

LABORATOIRE D'ECONOMIE FORESTIERE ET AGRICOLE
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
14, rue Girardet — Tél. (8) 335.43.06
F-54000 Nancy Cédex — Adresse télégraphique:

Statut: Organisme public créé en 1972 et dépendant de l'Institut National de la Recherche Agronomique (INRA) (149, rue de Grenelle, F-75007 Paris). Première structure de recherche en économie forestière en France, il s'est organisé progressivement vers la conduite de projets de recherche autonomes.

Effectifs: 6 chercheurs (dont 2 avec doctorat)
1 technicien
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Offre de bois; structures et mécanismes.
Récolte de bois et approvisionnement des industries.
Politique forestière.
Outils de gestion forestière.
Commerce mondial des bois et des produits dérivés.
Economie internationale et géopolitique.
Formation et vulgarisation.

Principales zones écologiques des activités de recherche: les zones tempérées.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés sous forme d'ouvrages et d'articles et sont diffusés à l'occasion des séminaires sur la recherche. Le laboratoire dispose d'une bibliothèque (environ 1.500 volumes) avec lecteurs de microfiche; 50 abonnements à des revues techniques internationales.

Coopération: Enseignement de l'économie forestière à l'Institut Agronomique Vétérinaire Hassan II à Rabat, Maroc. Quatre chercheurs provenant des pays en développement (Algérie, Maroc et Côte-d'Ivoire) ont été formés au Laboratoire. Echange d'informations dans le cadre de l'IUFRO. Le Laboratoire est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

LABORATOIRE DE REBOISEMENT
ECOLE NATIONALE DU GENIE RURAL DES EAUX ET DES FORETS
14, rue Girardet
F-54042 Nancy Cédex

Tél. (8) 335.10.20
Adresse télégraphique:

Statut: Organisme dépendant de l'Ecole Nationale du Génie Rural des Eaux et des Forêts (19, avenue du Maine, F-75732 Paris Cédex 15, tél. (1) 544.38.86). Le Laboratoire a été créé en 1980 grâce à des contrats de recherche. Il fut renforcé en 1983 et 1984 en personnel et moyens.

Effectifs: 5 chercheurs (dont 3 avec doctorat)
1 technicien
1 autre (administratif/secrétaire)

Stations de recherche sur le terrain: Le Laboratoire utilise les stations du CTFT (recherches outre-mer) et les services de l'Office National des Forêts (recherches en France).

Principaux domaines d'activité:

Amélioration génétique des arbres forestiers.
Physiologie des arbres tropicaux (culture in vitro).
Amélioration de l'Aulne (genre Alnus) par hybridations interspécifiques et multiplication végétative.
Symbioses et fixation symbiotique de l'azote.
Formation, vulgarisation et gestion du domaine de l'Ecole (1.000 ha.).
50% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: les zones tempérées et les terres arides et semi-arides tempérées.

Installations spéciales: un herbier et une xylothèque.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, dans un article de presse spécialisée, et dans la Revue forestière française. Le Laboratoire utilise la bibliothèque de l'ENGREF (50.000 volumes; 800 abonnements à des revues techniques) qui dispose de lecteurs de microfiche et d'informatiques (interrogation des bases bibliographiques).

Coopération: Les contacts internationaux ont eu lieu en matière de formation, d'échange d'informations et d'expertise. Les activités dans les pays en développement sont menées à travers la collaboration avec le CTFT. Le Laboratoire a formé 3 chercheurs provenant des pays en développement (Irak, Bénin et Côte-d'Ivoire). Il est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: français
Langues officielles de travail pour la correspondance internationale: français et anglais.

FRANCE

A F O C E L - A R M E F

(AFOCEL: Association Forêt-Cellulose)
(ARMEF: Association pour la rationalisation et la mécanisation de l'exploitation forestière

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Services communs:

- direction générale, services administratifs, publications, documentation * — Domaine de l'Etançon, 77370 Nangis, Tél. 64.08.41.98
- Laboratoire de biométrie

AFOCEL - Recherches sylvicoles

- direction des recherches — Domaine de l'Etançon, 77370 Nangis, Tél. 64.08.41.98
- station de l'Etançon (recherches en micropropagation, embryogenèse, biochimie)
- six directions régionales
- vergers à graines, génothèque
- sept stations de recherche sur le terrain

AFOCEL - Développement — 85 rue La Fayette, 75009 Paris, Tél. 42.80.69.77

ARMEF - Recherches en exploitation forestière

- direction des recherches — 85 rue La Fayette, 75009 Paris, Tél. 42.80.69.77
- station de mécaniques forestières
- quatre directions régionales

* 3.000 volumes et 250 abonnements à des revues techniques internationales

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Statut: Associations de droit privé (loi de 1901), ayant un fonctionnement d'établissements publics depuis 1973.

Effectifs: 66 responsables de la recherche et du développement (dont 23 avec doctorat)
32 techniciens
36 autres (ouvriers, employés, personnel administratif)

Principaux domaines d'activité:

L'AFOCEL a étendu son activité de recherches forestières à l'amélioration génétique des arbres par le jeu de la multiplication de clones sélectionnés et en créant des variétés améliorées. La production de biomasse - mise au point d'une méthode de production intensive de masse de matière première ligneuse - constitue une partie assez importante de ses travaux actuels.

L'ARMEF, prolongement en aval de l'action de l'AFOCEL, est axée sur la mécanisation, la mise en oeuvre de matériels de sylviculture et d'exploitation forestière, ainsi que sur l'organisation des chantiers en forêt; une chaîne d'exploitation mécanisée des éclaircies est en cours de mise au point. Son activité de formation du personnel forestier est très diversifiée.

Publications: Les résultats de la recherche sont publiés dans des Annales et dans des ouvrages (Micropropagation des arbres forestiers, Maladies des peupliers, Culture de biomasse ligneuse, Manuel de populiculture, Culture du pin maritime en Aquitaine, Machines d'exploitation forestière). Deux colloques internationaux organisés par l'AFOCEL à la demande de l'IUFRO ont fait l'objet de publications (l'un sur la culture in vitro et l'autre sur les eucalyptus résistant au froid). "Informations-Forêt" et "Informations-Bois" paraissent quatre fois l'an.

(France)

(AFOCEL-ARMEF, suite)

Coopération: AFOCEL-ARMEF ont des contacts internationaux avec l'ingéniérie forestière dans divers pays en développement et sont toutes disposées à renforcer de tels contacts avec les institutions de ces pays. Elles sont membres de l'IUFRO.

Langue officielle de travail: français.

FRANCE

CENTRE TECHNIQUE FORESTIER TROPICAL (CTFT)
45bis, avenue de la Belle Gabrielle
F-94130 Nogent-sur-Marne

Tél. (1) 873.32.05
Télégrammes: CETEFO 211085 F

Statut: Organisme public créé en 1948 pour s'occuper de la recherche forestière en zones tropicales. A l'origine, le CTFT s'occupait uniquement du bois. Ensuite, son champ d'activité s'est élargi aux recherches forestières. Depuis l'indépendance des anciennes colonies françaises, le CTFT coopère avec elles sur un pied d'égalité. Il coopère aussi avec les pays qui n'ont jamais été d'obédience française, comme le Brésil et l'Indonésie.

Effectifs: 75 responsables de la recherche et du développement (dont 50% avec doctorat)
53 techniciens
60 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 7 missions CTFT en Afrique, Amérique latine et en Océanie.

Principaux domaines d'activité:

Forêts tropicales.
Bois tropicaux et pisciculture tropicale.
Recherche sur la production et l'utilisation du bois de feu et d'énergie; recherche socio-économique (tous les aspects).
Sylviculture des essences de bois de feu (sélection des espèces et provenance, génétique forestière; méthodes sylvicoles, systèmes de production; rotations, croissance, rendements, etc.
Recherche et technologie industrielles.
Comparaisons avec d'autres combustibles; dérivés du bois.
Recherche sur le milieu.
Formation, vulgarisation, administration, gestion et développement.

Principales zones écologiques des activités de recherche: zones tropicales humides, zones tropicales sèches, zones subtropicales, terres arides et semi-arides.

Installations spéciales: un herbier (5.000 échantillons) et une xylothèque (29.000 échantillons).

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, dans la revue "Bois et Forêts des Tropiques" (trimestrielle) et ses suppléments (cahiers scientifiques - env. 1|an), dans les manuels de vulgarisation, fiches techniques (une centaine, normalement 4 par an), fiches sur les essences de reboisement, et ouvrages techniques. En outre, ils sont diffusés à l'occasion des conférences, séminaires ou réalisations de films. Le Centre possède une bibliothèque avec 6.000 volumes; 150 abonnements à des revues techniques internationales.

Coopération: Les activités du CTFT se déroulent dans les pays en développement. Le Centre forme chaque année 10 chercheurs en moyenne provenant des pays en développement (Afrique, Asie, Amérique latine). Les autres contacts concernent la formation, les échanges de personnel et d'informations, le financement des projets conjoints et l'assistance technique (par exemple, démarrage d'usines).

Langue officielle de travail: français.

FRANCE

DEPARTEMENT DES RECHERCHES FORESTIERES
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
Ardon
F-45160 Olivet

Tél. (38) 630.206
Adresse télégraphique: 760 359 F

Statut: Institution publique créée en 1964, faisant partie de l'Institut National de la Recherche Agronomique (149 rue de Grenelle, F-75341 Paris Cédex 07, tél. (1) 550.32.00; télex: 204719 F).

Effectifs: 102 chercheurs
152 techniciens
23 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 18

Principaux domaines d'activité:

Sylviculture (méthodes sylvicoles, traitements).
Amélioration génétique.
Phytosanitaire (maladies et insectes).
Inventaire des ressources, rotations, accroissement et rendement.
Qualité du bois.
Ecologie.
Formation et vulgarisation.

Principales zones écologiques des activités de recherche: zones tempérées, tropicales humides et montagneuses.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les Annales des sciences forestières et sont diffusés à l'occasion des séminaires sur la recherche. Le Département dispose d'une bibliothèque; 30 abonnements à des revues techniques internationales.

Coopération: Le Département a des activités de recherche dans les pays en développement, en liaison avec le CTFT, sur la fertilisation et les mycorrhizes. Il accueille 2 chercheurs par an provenant des pays en développement. Le Département est membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

AGENCE FRANÇAISE POUR LA MAITRISE DE L'ENERGIE
Rue Louis Vicat, 27
F-75015 Paris

Tél. (1) 765.20.00
Télex: 203351 F

Statut: Institution publique créée en 1982.

Effectifs: 433 responsables de la recherche et du développement (dont 247 avec doctorat)
53 techniciens
147 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Biomasse, biotechnologie, thermique, habitat de tertiaire, solaire et géothermie.
Formation, vulgarisation et développement.
10% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: les zones tempérées.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les plaquettes, et sont diffusés à l'occasion des séminaires sur la recherche et au moyen de la Presse. Il y a une bibliothèque avec 4.100 volumes; 55 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux comprennent l'échange d'informations, le financement de projets conjoints (avec le FAC) et assistance financière directe. L'Agence mène des activités de recherche au Burkina Faso (CILSS), au Sénégal (CERER), au Mali (LESO) et en Côte-d'Ivoire (Conseil de l'Entente). Elle est disposée à renforcer les contacts de recherche avec les institutions dans les pays en développement. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français
Langues officielles de travail pour la correspondance internationale: anglais et français.

FRANCE

BIOCHALEUR
202, rue Croix-Nivert
F-75015 Paris
Tél. 45547788

Statut: Société anonyme créée en 1981. Ses actionnaires sont notamment la Caisse des Dépôts et Consignations et l'Union Nationale des Fédérations d'Organismes H.L.M.

Effectifs: 8 ingénieurs
4 administratifs

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Evaluation des potentialités du bois de feu et aspects économiques.
Inventaire des ressources en bois de feu, méthodes de récolte et de transport, densité et valeur calorifique.
Rentabilité.
Pellétisation.
Formation, vulgarisation et développement.

Le programme de recherche est consacré entièrement à la dendroénergie.

Principale zone écologique des activités de recherche: zone tempérée.

Installations spéciales: nil

Publications et services: Les résultats de la recherche sont publiés dans des rapports destinés aux clients.

Coopération: Les contacts internationaux sont limités à la formation. Biochaleur n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

CENTRE TECHNIQUE DU BOIS ET DE L'AMEUBLEMENT
10, avenue de Saint-Mandé
F-75012 Paris

Tél. 43.44.06.20
Télex: 214 280 F CTBOIS

Statut: Centre technique industriel interprofessionnel.

Effectifs: 250

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

L'ensemble des emplois du bois de l'exploitation forestière à la fabrication des produits finis (scierie - panneaux - bois dans la construction - ameublement).

Installations spéciales: Equipements d'essais mécaniques, d'essais de meubles, équipements informatiques, bancs d'essais de menuiseries, de charpente, atelier de finition en ameublement.

Publications et services: Cahiers et brochures, 2 périodiques (6 numéros par an).
Services: Appui technique en entreprise, formation continue, certification de la qualité, information technique, réglementation nationale et internationale.
Bibliothèque: Ensemble des ouvrages et périodiques français et étrangers sur le bois.

Coopération: Le Centre forme de temps en temps des personnels provenant des pays en développement, mais il s'agit de courts séjours. Les contacts internationaux s'exercent plutôt dans le cadre de l'IUFRO, dont le Centre est membre.

Langue officielle de travail: français.

FRANCE

DIVISION PROTECTION DE LA NATURE
CENTRE NATIONAL DU MACHINISME AGRICOLE DU GENIE
RURAL DES EAUX ET DES FORETS (CEMAGREF)
B.P. 76 Tél. 16 (76) 54.00.72
F-38402 St. Martin d'Hères Cédex Télex: 980 679

Statut: Institution publique créée en 1967.

Effectifs: 6 responsables de la recherche et du développement (tous avec doctorat)
2 techniciens
3 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Méthodologie de reconstitution des sols dégradés et de revégétalisation forestière.
Parasites et maladies des forêts; méthodes de lutte.
Vulgarisation et développement.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses.

Installations spéciales: Une collection d'échantillons sur les prédateurs et les maladies forestières.

Publications et services: Les résultats de la recherche sont publiés sous forme de fiches techniques illustrées ou bulletins d'information technique.

Coopération: (informations pas disponibles) La Division est disposée à renforcer les contacts avec les institutions dans les pays en développement. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

ECOLE FRANÇAISE DE PAPETERIE
(ECOLE SUPERIEURE D'INGENIEURS DES INDUSTRIES
PAPETIERES ET GRAPHIQUES)
Domaine universitaire, Voie 8
B.P. 65 Tél. 76.42.01.27
F-38402 St. Martin d'Hères Cédex Télex: CETEPAP 980.642 à l'att. de l'EFPG

Statut: Ecole privée, rattachée à l'Institut National Polytechnique de Grenoble. Laboratoire associé au CNRS.

Effectifs: 34 enseignants, chercheurs et administratifs privés
20 enseignants et techniciens détachés de l'université.

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

Génie des procédés papetiers.
Chimie macromoléculaire.
Imprimerie et transformation.

Installations spéciales: -

Publications et services: Cahier documentaire (10 fois par an) comprenant une revue bibliographique dans le domaine des industries graphiques; document annuel présentant les travaux de recherche; essais dans le domaine papetier. Il y a un Centre de documentation et de prospective pour les industries graphiques.

Coopération: L'Ecole collabore avec de nombreux établissements d'enseignement en papeterie dans le monde. l'Ecole n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

LABORATOIRE BOTANIQUE ET FORESTIER
UNIVERSITE PAUL SABATIER
39, Allées J. Guesde
F-31062 Toulouse Cédex

Tél. (61) 53.02.35
Adresse télégraphique:

Statut: Organisme universitaire relevant de l'Université Paul Sabatier (route de Narbonne, F-31062 Toulouse), créé en 1928.

Effectifs: 2 chercheurs (avec doctorat)
2 techniciens

Stations de recherche sur le terrain: 1 (arboretum)

Principaux domaines d'activité:

Systématique.
Architecture et morphologie des arbres.
Pathologie forestière.
Formation et vulgarisation.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales: un herbier et un arboretum.

Publications et services: Les résultats de la recherche sont publiés dans "Travaux du Laboratoire Forestier de Toulouse" (sans périodicité). Il y a une bibliothèque avec 2.000 volumes; 300 abonnements à des revues techniques internationales.

Coopération: Le Laboratoire a des activités de recherche dans les pays en développement. Il a formé 3 Algériens. Autres contacts internationaux portent sur la formation et les échanges de personnel et d'informations. Le Laboratoire est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il n'est pas membre de l'IUFRO.

Langue officielle de travail: français
Langues officielles de travail pour la correspondance internationale: français, anglais et espagnol.

FRANCE

ASSOCIATION POUR LA RECHERCHE SUR LE BOIS EN LORRAINE
UNIVERSITE DE NANCY I
B.P. 139 Tél. (8) 328.93.93
F-54506 Vandoeuvre-les-Nancy Adresse télégraphique:

Statut: Institution universitaire créée en 1979. L'Association et l'Université ont de nombreuses activités sur le bois, en particulier le bois de feu. Elle développe maintenant des recherches sur unités pilotes.

Effectifs: 16 responsables de la recherche et du développement (dont 8 avec doctorat)
5 techniciens
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 1

Principaux domaines d'activité;

Pyrolyse du bois.
Gazéification du bois.
Recherche et technologie industrielles du bois.
Mise au point d'unités pilotes.
Formation et vulgarisation.

Principales zones écologiques des activités de recherche: zones tempérées.

Installations spéciales: unités pilote et micropilote et appareillage de laboratoire.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans les revues sciencifiques, et sont diffusés à l'occasion des conférences et séminaires sur la recherche, ainsi qu'au moyen des brevets. L'institution dispose d'une bibliothèque avec lecteurs de microfiche.

Coopération: Les contacts internationaux officiels comprennent la formation (accueil de stagiaires et d'étudiants des pays en développement (Afrique, Asie et Amérique latine) et les échanges d'informations et de personnel. L'institution travaille maintenant sur la gazéification du bois avec l'Institut forestier latino-américain (IFLA), Mérida, Venezuela. Elle est disposée renforcer les contacts de recherche avec les institutions dans les pays en développement. L'Association n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

CENTRE DE PEDOLOGIE BIOLOGIQUE DU CNRS
17, rue Notre-Dame-des-Pauvres
B.P. 5
F-54501 Vandoeuvre-les-Nancy

Tél. (8) 357.08.60
Adresse télégraphique:

Statut: Institution publique, créée en 1966, relevant du Centre National de la Recherche Scientifique (15, quai Anatole France, F-75700 Paris, tél. 555.92.25). Le Centre a atteint une organisation optimale après 15 ans d'existence.

Effectifs: 35 chercheurs (dont 13 avec doctorat)
20 techniciens
9 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Evolution des sols et histoire de la végétation.
Géochimie des sols.
Biologie des sols: biodynamique de l'humus et productivité des écosystèmes naturels, altération microbienne, écologie microbienne et fixation de l'azote.
Formation.
20% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques de activités de recherche: zones tempérées, montagneuses, tropicales humides et sèches, et zones subtropicales.

Installations spéciales: une pédothèque et une photothèque.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, les revues françaises et étrangères et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Deux livres de pédologie ont été publiés (Librairie Masson, Paris). Le Centre a une bibliothèque avec 1.000 volumes; 20 abonnements à des revues techniques internationales.

Coopération: Le Centre a des activités de recherche au Bangladesh (Institut de Recherche Agronomique, Dacca), en Inde (Institut Français de Pondichéry), au Cameroun (Université de Yaoundé), au Maroc (Institut Agronomique et Vétérinaire Hassan II, Rabat), et en Tunisie (Faculté des Sciences, Tunis). Les autres contacts internationaux portent sur la formation et les échanges de personnel et d'informations. Le Centre a formé 5 chercheurs provenant des pays en développement (Egypte, Nigéria, Bangladesh, Inde, Madagascar). Il est disposé à renforcer les contacts avec les institutions de recherche dans les pays en développement. Le Centre n'est pas membre de l'IUFRO.

Langue officielle de travail: français
Langues officielles de travail pour la correspondance internationale: français, anglais et espagnol.

FRANCE

DEPARTEMENT DE BIOLOGIE ET PHYSIOLOGIE VEGETALE
A DOMINANTE FORESTIERE
UNIVERSITE DE NANCY I
B.P. 239
F-54506 Vandoeuvre-les-Nancy Cédex
Tél. 83.28.93.93, poste 22.23

Statut: Laboratoires universitaires

Effectifs: 4 professeurs
9 cadres B
14 thésards
4 techniciens
1 secrétaire

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

Micropropagation et embryogenèse somatique de végétaux ligneux; étude physiologique des champignons mycorhizogènes et parasites des végétaux ligneux; physiologie cellulaire de l'appareil végétatif ligneux; étude, au niveau cellulaire, des systèmes symbiotiques mycorhiziens.

Espèces étudiées: chêne, eucalyptus, aulne, épicea, sequoia, pin, merisier, pommier, hévéa, khaya.

Champignons: Cnenococcum graniforme, Suillus ssp. Hebeloma ssp., Laccaria laccata, Paxillus involutus, Fomes, Endogonacées.

Installations spéciales: Microscopie électronique, cytochimie et cytoenzymologie ultrastructurale; Unités de vitropropagation; fractionnement et analyse du fonctionnement des cellules et des organites.

Publications et services: -
Les laboratoires maintiennet plusieurs bibliothèques.

Coopération: INRA (Nancy, Clermont-Ferrand, Dijon, Montpellier); ENGREF, AFOCEL et autres universités françaises (Lyon, Clermont-Ferrand). Université de Karlsruhe, INA, Alger; INRF, Alger; Technicum Horticole de Lullier (Genève); Institut de Botanique, Turin. Le Département est membre de l'IUFRO.

Langue officielle de travail: français.

FRANCE

ECOLE SUPERIEURE DES SCIENCES ET TECHNOLOGIES
DES INDUSTRIES DU BOIS (ESSTIB)
UNIVERSITE DE NANCY I
B.P. 239
F-54506 Vandoeuvre-les-Nancy, Cédex
Tél. 83.28.93.93
Télex: NANCYUN 960646F

Statut: Ecole d'ingénieurs interne de l'Université de Nancy I.

Effectifs: 3 professeurs - 3 maîtres de conférences
10 chercheurs
4 ITA (Ingénieur - technicien - administratif)

Stations de recherche sur le terrain: 1 (Halle de Technologie)

Principaux domaines d'activité:

Production Bois: automatisation des procédés de transformation du bois; techniques d'usinage.
Matériau Bois: collage - méthodes de détection de singularités - stabilité du bois et des finitions à la lumière - dégradation biologique et préservation.
Bois Energie: combustion - pyrolyse - gazéification.

Installations spéciales: Halle de technologie en cours d'équipement pour la mise au point de pilotes de transformation mécanique et énergétique du bois. Appareillage de laboratoire pour l'analyse du matériau.

Publications et services: Les résultats de la recherche sont publiés dans les revues scientifiques françaises et internationales. Activités de service et de conseil auprès des organismes et industries tant françaises qu'étrangères. Il y a une bibliothèque comportant des ouvrages de base sur les propriétés et les procédés de transformation du bois.

Coopération: Les laboratoires de l'ESSTIB sont associés avec ARBOLOR (Association pour la Recherche sur le Bois en Lorraine). Contacts avec la CEE (DG XII: Energies renouvelables). Coopération avec le Département Sciences du Bois de l'Université Laval (Canada), l'Institut Forestier Latino-Américain (Vénézuéla), l'Institut National des Industries légères (Algérie), et les Centres forestiers du Gabon, Vénézuéla et d'Indonésie. L'Ecole n'est pas membre de l'IUFRO.

Langue officielle de travail: français
Langue officielle de travail pour la correspondance internationale: français et anglais.

FRANCE

LABORATOIRE DE BIOLOGIE DES LIGNEUX
UNIVERSITE DE NANCY I
B.P. 239
F-54506 Vandoeuvre-les-Nancy Cédex Tél. 83.28.93.93, poste 22.23

Statut: Laboratoire universitaire dépendant du Ministère de l'Education Nationale.

Effectifs: 2 professeurs (cadres A)
3 cadres B
8 thésards

Stations de recherche sur le terrain: néant

Principaux domaines d'activité:

Multiplication de ligneux in vitro; embryogenèse somatique; étude des systèmes symbiotiques mycorhiziens; application à la mycorhization controlée de vitroplants (Chêne, Eucalyptus).

Installations spéciales: Unité de multiplication végétative. Laboratoire de microscopie électronique.

Publications et services: -
Le Laboratoire maintient une bibliothèque.

Coopération: Au plan national, le Laboratoire collabore avec l'INRA (Centre National de recherches forestières, Station de Dijon, Station de Clermont Ferrand), l'ENGREF, Laboratoire universitaire (Lyon, Paris VI). Au plan international, avec l'Institut Botanique de Turin, ainsi qu'avec l'Algérie et la Chine. Le Laboratoire est membre de l'IUFRO.

Langue officielle de travail: français.

GERMANY, FEDERAL REPUBLIC

BUNDESANSTALT FÜR MATERIALPRÜFUNG (BAM)
(Federal Institute for Material Testing)
Unter den Eichen 87
D-1000 Berlin 45, Federal Republic of Germany

Tel. 0308104-5010
Telex: 183261 BAMB D

Status: A public research institute of the Ministry of Economic Affairs, Bonn, founded in 1949.

Staff: 1 research officer (Ph.D)
3 technicians
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Utilization of solid wood materials; wood protection and use of preservatives; wood-based panel materials; wood resins.
Fifty percent of the research programme is devoted to fuelwood or energy studies, including industrial technology of preservatives and use of residues for energy.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and in German and U.S. scientific periodicals. The library has 5,000 scientific and technical volumes. Microfiche readers are available.

Cooperation: Formal international links involve training and exchange of information. Research links with developing countries have been established with the Universidad Austral de Chile, Valdivia, Chile, and with the Northeast Forestry College, Harbin, China. At present, research and development staff from Brazil (1), China (2) and Chile (1) are working in the Institute. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

FRAUNHOFER-INSTITUT FÜR HOLZFORSCHUNG
(Fraunhofer Institute for Forest Products Research)
Bienroder Weg 54 E
D-3300 Braunschweig, Federal Republic of Germany

Tel. 0531|39090
Teletex: 5318185

Status: A research institute of the "Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V." (Fraunhofer Society for the Promotion of Applied Research), Munich.

Staff: 24 research and development officers
30 technicians
16 other (administrative|secretarial)
13 apprentices

Field stations: None

Principal fields of activity:

Maintenance or improvement of quality of wood-based products by increasing the durability and efficient use of raw material.

Technical and economic improvement of manufacturing processes.

Development of new building materials.

Accelerated simulated weathering of prefabricated parts.

Improvement of working and environmental conditions in the production and use of wood-based products.

Technology transfer.

Special facilities: Laboratory for wood- and fibre-based products, pulp, paper, liquid coatings. Testing houses for prefabricated parts. Twin climate chamber for testing prefabricated parts up to house wall size. Test chamber for creep tests of wood-based panel materials. Two test chambers for measuring the formaldehyde emission of building materials (acc. to ETB regulation). Test station for wood-run furnaces and boilers. Mobile station for measuring gas and dust emissions. Station for developing microcomputer use. Laboratory for adhesive and lacquer analysis. Laboratory for microscopy, video scanning analysis and surface tests.

Publications and services: Research results are published in scientific periodicals. Reprints are issued as "WKI-Mitteilungen" (WKI Informations). Intermediate results are published in "WKI-Kurzberichte" (WKI Short Notes). The results of projects with subjects of great interest for the public are published in the series "WKI-Bericht" (WKI Report). The Institute's library has 4,750 books and 135 periodicals.

Cooperation: The Institute collaborates with several institutions and companies on a worldwide basis, partly in joint projects (Australia, Chile, China, Finland, France, Italy, New Zealand, Philippines, South Africa, Sweden and U.S.A.). It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

NIEDERSÄCHSISCHE FORSTLICHE VERSUCHSANSTALT
ABTEILUNG FORSTPFLANZENZÜCHTUNG
(Forestry Research Institute of Lower Saxony,
Division of Forest Tree Breeding) Tel. 05543/1037
D-3513 Escherode, Federal Republic of Germany Cables:

Status: A public research institute founded in 1963.

Staff: 7 research and development officers (3 Ph.Ds)
10 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Gene conservation; provenance research; seed orchard establishment; controlled crossing; species hybridization; vegetative propagation, including tissue culture; seed research; nursery research and development.
Twenty percent of the research programme is devoted to tree breeding, seed research, vegetative propagation, tissue culture and cell genetics of fuelwood species.
Training and development.

The research is conducted mainly in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in scientific journals, and in the proceedings of research conferences. Research information is also disseminated during local field trips and seminars.
The library possesses 600 scientific and technical volumes; 5 subscriptions to international technical journals.

Cooperation: International cooperation includes training, exchange of staff and exchange of information. The Institute frequently trains research and development staff from developing countries. It is willing and in a position to strengthen research links with institutions in developing countries. The Institute is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

FORSTLICHE VERSUCHS- UND FORSCHUNGSANSTALT BADEN-WÜRTTEMBERG
(Forestry Research Institute Baden-Württemberg)
Wonnhaldestrasse 4
D-7800 Freiburg im Breisgau
Federal Republic of Germany

Tel. 0761/4018-0

Status: A public research institute. The Forest Research Institute of Baden was founded in 1870, and the Forest Research Institute of Württemberg in 1872. The two institutes were amalgamated in 1958.

Staff: 44 research and development officers (15 Ph.Ds)
44 other (administrative|secretarial and technicians)

Field stations: None

Principal fields of activity:

Forest yield science, ecological relationships between forests and environment, forest diseases and forest management. Training and provision of consultant services.

Special facilities: The Institute maintains an insect collection.

Publications and services: Research results are published in annual reports, communications, and in the proceedings of research conferences and seminars. The library has 20,000 scientific and technical volumes.

Cooperation: International cooperation includes training, exchange of information, exchange of staff and funding of joint projects. A cooperative research programme in soil sciences and biometrics exists with the Universidade Federal do Paraná, Curitiba, Brazil. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Forestry Faculty of the Albert-Ludwig University)
Erbprinzenstrasse 13
D-7800 Freiburg i. Br., Federal Republic of Germany

Tel. 0761/203 3155
Cables: UNI FREIBURG
Telex: 772 740 - ufd

Status: A university teaching and research faculty of the University of Freiburg, founded in 1920. First Chair of Forestry (1787-1791) in Freiburg.

Staff: 46 research and faculty staff (37 Ph.Ds) (29 research officers and 12 other are paid by projects)
35 technicians
20 other (administrative/secretarial)

Field stations: 3 (10 ha)

Principal fields of activity:

All aspects of forestry.
Five percent of the research programme is devoted to fuelwood and energy studies.
Training.

The research is conducted in the semi-arid, sub-tropical and temperate zones.

Special facilities: Arboretum, herbarium, insect collection (10,000 specimens); a botany and a soils laboratory.

Publications and services: Research results are published in annual reports and in the proceedings of research conferences. The library possesses 45,000 scientific and technical volumes; 158 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Faculty participates in a joint research programme with the Universidade Federal do Paraná, Curitiba, Brazil, and is currently training 11 research and development staff from the following developing countries: Brazil (4), Argentina (3), China (2), and Iran (2). Partnership with the University of Forestry and Wood Sciences, Sopron, Hungary. The Faculty is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

ABTEILUNG FÜR FORSTLICHE BIOMETRIE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Department of Forest Biometry,
Faculty of Forestry of the Albert-Ludwig University)
Holzmarktplatz 6 Tel. (0761) 203-3570
D-7800 Freiburg i. Br., Federal Republic of Germany Cables:

Status: A research and teaching department of the University of Freiburg, founded in 1962.

Staff: 3 research officers (2 Ph.Ds)
1 technician
1 other (administrative|secretarial)

Principal fields of activity:

Forest biometrics, particularly inventory, growth and yield studies.
Ten percent of the research programme is devoted to fuelwood crops.

The research is conducted mainly in semi-arid lands and in the dry tropics.

Special facilities: (information not available)

Publications and services: Research results are published in scientific journals. The Department uses the library of the Faculty and subscribes to 4 international technical journals. Microfiche readers are available.

Cooperation: The Department cooperates with other countries in the exchange of research information. Joint research on inventory methods is conducted with the Universidade Federal do Paraná, Curitiba, Brazil. Two research and development staff (Korea and Brazil) are currently being trained in Biometry and Biomass Inventory. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

FORSCHUNGSSTELLE FÜR EXPERIMENTELLE LANDSCHAFTSÖKOLOGIE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Research Establishment for Experimental Landscape
Ecology, Forestry Faculty of the Albert-Ludwig University)
Werderring 10
D-7800 Freiburg i. Br., Federal Republic of Germany Tel. (0761) 203-2324

Status: A research establishment of the University of Freiburg, founded in 1973.

Staff: 1 research and 1 development officer
1 technician

Field stations: 1 (testing station)

Principal fields of activity:

Forest hydrology and ecology; bio-indicator research; and experimental landscape ecology.
Training.

The research is conducted mainly in the temperate zone.

Special facilities: Controlled environment chambers.

Publications and services: Research results are published in annual reports and in the publication "Acta Oecologica". The library possesses about 900 scientific and technical volumes; 41 subscriptions to international technical journals.

Cooperation: The Establishment is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: French and German.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR BODENKUNDE UND WALDERNÄHRUNGSLEHRE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Institute of Soil Science and Forest Nutrition,
Forestry Faculty of the Albert-Ludwig University)
Bertoldstrasse 17 Tel. (0761) 203-3735
D-7800 Freiburg i. Br., Federal Republic of Germany Cables:

Status: A university research institute founded in 1920 and now part of the Forestry Faculty of the University of Freiburg.

Staff: 4 research and development officers (3 Ph.Ds)
7 technicians
1 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Forest nutrition disorders; relation of site factors and soil formation; mineral elements involved in ecosystems of southwestern Germany; palaeopedology and stratigraphy of sediments in the loess type soils of the southwest, soil zoological tests in natural and man-formed ecosystems;
Training and development.

The research is conducted mainly in the sub-tropical and temperate zones.

Special facilities: A collection of about 6,000 slides.

Publications and services: Research results are published in scientific and technical journals and in "Freiburger Bodenkundliche Abhandlungen" (1-2 issues per year). The library has 1,830 scientific and technical volumes; 18 subscriptions to international scientific and technical journals.

Cooperation: International cooperation includes training, exchange of staff and exchange of information. The Institute collaborates with the Universidade Federal do Paraná, Curitiba, Brazil, on applied research on mineral nutrition of forest plantations. It is willing and in a position to strengthen research links with institutions in developing countries. The Institute is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and Spanish.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR LANDESPFLEGE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Institute for Environmental Management,
Forestry Faculty of the Albert-Ludwig University)
Bertoldstrasse 17
D-7800 Freiburg i. Br., Federal Republic of Germany

Tel. (0761) 203-3761
Telex: 772740-60 UFD
Cables: UNIFREIBURG

Status: A research institute of the Faculty of Forestry, University of Freiburg.

Staff: 4 research officers (3 Ph.Ds)
2 technicians
3 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Landscape ecology; forest resources; forestry in developing countries; and agro-forestry systems.
Fifteen percent of the research programme is devoted to fuelwood production systems and to the environmental impact of fuelwood production.
Training.

The research is conducted mainly in semi-arid lands and in the dry tropics.

Special facilities: (information not available)

Publications and services: Research results are published in periodicals, including "Schriftenreihe des Instituts für Landespflege", and are disseminated through research conferences and seminars. The Institute uses the main library of the University which contains some 3 million scientific and technical volumes. Microfiche readers are available.

Cooperation: Cooperative links include training, exchange of staff and exchange of information. Various cooperative research programmes have been implemented in developing countries. At present, an Indian is working in the Institute. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English, French and German.

GERMANY, FEDERAL REPUBLIC

WALDBAU-INSTITUT
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER ALBERT-LUDWIGS-UNIVERSITÄT
(Institute of Silviculture, Forestry Faculty
of the Albert-Ludwig University)
Bertoldstrasse 17
D-7800 Freiburg i. Br., Federal Republic of Germany
Tel. (0761) 203-3741
Cables:

Status: A research institute of the University of Freiburg, founded in 1935.

Staff: 4 research officers (3 Ph.Ds)
2 technicians
1.5 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Basic and technical knowledge of silviculture; ecology and forest vegetation science; and forest tree breeding.
Training.

The research is conducted mainly in temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in the series "Schriftenreihe des Waldbau-Instituts" (issued irregularly). The library possesses 500 scientific and technical volumes; 3 subscriptions to international technical journals.

Cooperation: International cooperation includes training, exchange of staff, exchange of information and funding of joint projects. The Institute has a joint research programme in silviculture with the Universidade Federal do Paraná, Curitiba, Brazil, and is actively involved in training research and development staff from developing countries. At present, 4 staff from Brazil, Argentina, Taiwan and China are undergoing training. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English, French and German.

GERMANY, FEDERAL REPUBLIC

HESSISCHE FORSTEINRICHTUNGSANSTALT
(Hessian Institute of Forest Management Planning)
Moltkestrasse 10
Postfach 2544
D-63 Giessen, Federal Republic of Germany Tel. 0641|36026

Status: A public institute of the Ministry of Agriculture and Forestry.

Staff: 8 research and development officers

Field stations: None

Principal fields of activity:

Inventory, forest management planning, yield science and economics, social functions and environment research.

Special facilities: -

Publications and services: Research results are published in German scientific journals.

Cooperation: No cooperative links. The Institute is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

FORSTBOTANISCHES INSTITUT
(Institute of Forest Botany)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 2
D-3400 Göttingen, Federal Republic of Germany

Tel. 0551/393481
Telex: 96 703

Status: A teaching and research institution of the University of Göttingen.

Staff: 7 faculty members

Field stations: At present 4, shared with other institutions.

Principal fields of activity:

Tree physiology, effects of air pollutants on trees and ecosystems, soil microbiology, mycorrhiza (physiology and sociology), biotechnology of lignin, physiology of pathogenic fungi (host-parasite relations).

Special facilities: Electron microscopes equipped with EDAX for ion localization (TEM and SEM), HPLC, photo-synthesis measurements, a biochemical laboratory, a fermentation unit, and an isotope laboratory.

Publications and services: -
There is a library with 40,000 volumes.

Cooperation: The Institute collaborates with the University of Wisconsin, Madison, U.S.A.; the Department of Botany, Faculty of Agriculture, Hebrew University, Rehovot, Israel; the Otto-Warburg-Centre for Biotechnology, Rehovot, Israel; and with the Forestry University in Beijing, People's Republic of China. The Institute is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

FORSTWISSENSCHAFTLICHER FACHBEREICH
DER GEORG-AUGUST UNIVERSTÄT
(Forestry Faculty of the Georg-August University)
Büsgenweg 5
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393401

Status: A university teaching and research faculty of the University of Göttingen, founded in 1868 as a Prussian Forestry Academy in Hann. Münden. It now comprises: the Institute of Forest Genetics and Tree Breeding, the Institute of Forest Work Science, the Institute of Forest Economics, the Institute of Bioclimatology, the Institute of Forest Botany, the Institute of Forest Zoology, the Institute of Forest Policy, Timber Marketing, Forest History and Nature Conservation, the Institute of Soil Science and Forest Nutrition, the Institute of Silviculture, the Institute of Forest Utilization, the Institute of Forest Management and Yield Studies, the Institute of Wildlife Biology and Management, and the Department of Forest Biometry.

Staff: 63 research officers
39 technicians
44 other

Field stations: 1 (Castle of Nienover)

Principal fields of activity:

All aspects of forestry, also in subtropical and tropical areas.

Special facilities: Various collections of timber, birds, game, insects, etc.

Publications and services: Research results are published in scientific journals and in a serial publication of the Faculty:"Schriftenreihe der Forstlichen Fakultät der Universität Göttingen". The Faculty has its own central library but also uses the main library of the University, as well as the smaller libraries at the Institutes.

Cooperation: Special partnerships with the University of Nuevo Leon, Monterrey (Mexico), the University of Forestry and Wood Sciences, Sopron (Hungary), the Beijing Forestry College (China), and the Faculty of Forestry of the University of Istanbul (Turkey). The Faculty is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

ABTEILUNG FÜR FORSTGENETIK UND FORSTPFLANZENZÜCHTUNG
(Department of Forest Genetics and Tree Breeding)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 2
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393532

Status: A teaching and research institution of the University of Göttingen.

Staff: 10 scientists
8 technicians
1 secretary

Field stations: None

Principal fields of activity:

Experimental and theoretical fields of population genetics and ecological genetics of forest trees and forest animals. Reproduction genetics of forest trees and genetic consequences of air pollution.

Special facilities: -

Publications and services: Research Notes in Forest Genetics of the University of Göttingen. The Department maintains a library.

Cooperation: The Department cooperates with the Institute of Forest Genetics and Tree Breeding BFH in Grosshansdorf and with institutions in the same field in many European countries. It also collaborates with the Southeastern Forest Exeriment Station, Dept. of Genetics, North Carolina State University, Raleigh, U.S.A. The Institute is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

ABTEILUNG FORSTLICHE BIOMETRIE UND INFORMATIK
(Department of Forest Biometry and Informatics)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 5 Tel. 0551|393464
D-3400 Göttingen, Federal Republic of Germany Telex: Uni Goe 96703

Status: A teaching and research institution of the University of Göttingen.

Staff: 9 faculty members

Field stations: None

Principal fields of activity:

Biomathematics and biostatistics.
Growth of stands and trees.
Measurement techniques.

Special facilities: PDP 11/34 A_g Picture Processing System.

Publications and services: -
The Department has access to a library with 600 books.

Cooperation: -
The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: english.

GERMANY, FEDERAL REPUBLIC

FORSCHUNGSZENTRUM WALDÖKOSYSTEME|WALDSTERBEN
(Research Centre for Forest Ecosystems|Forest Dieback)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 2
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393501

Status: A research institution of the University of Göttingen.

Staff: 1 scientist
2 secretaries

Field stations: -

Principal fields of activity:

Coordination of forest ecosystems research at the University of Göttingen.

Special facilities: X-ray micro-analysis.

Publications and services: Berichte (reports) des Forschungszentrums Waldökosysteme|Waldsterben, Vols. 1-18. No library facilities.

Cooperation: The Centre cooperates with several institutes of the Universities of Göttingen, Kassel, Bochum and Mainz, FRG. It is not a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR BIOKLIMATOLOGIE
(Institute for Bioclimatology)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 1 Tel. 0551|393682-83
D-3400 Göttingen, Federal Republic of Germany Telex: 96 703

Status: A teaching and research institution of the University of Göttingen.

Staff: 3 faculty members

Field stations: 1

Principal fields of activity:

Forest climates.

Special facilities: Radiation regimes in upper canopies.

Publications and services: -
The Institute has its own library.

Cooperation: The Institute collaborates with other meteorological institutes.
It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR BODENKUNDE UND WALDERNÄHRUNG
(Institute of Soil Science and Forest Nutrition)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 2
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393502

Status: A teaching and research institution of the University of Göttingen.

Staff: 37 scientists
33 technical personnel

Field stations: 17 permanent field stations

Principal fields of activity:

Soil chemistry: soil nutrient equipment, air pollution and its effects, liming.
Plants: forest nutrition, root systems.
Soil water movement.
Modelling: input|output of elements in forest systems, water movement.

Special facilities: Laboratory for chemical and hydrological analyses.

Publications and services: Dissertations. The library has some 4,000 books and 32 periodicals (mainly on soil science).

Cooperation: -
The Institute is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR FORSTEINRICHTUNG UND ERTRAGSKUNDE
(Institute of Forest Management and Yield Science)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 5 Tel. 0551|39.34.72-71
D-3400 Göttingen, Federal Republic of Germany Telex: 96703 unigoe

Status: A teaching and research institution of the University of Göttingen.

Staff: 8 faculty members

Field stations: None

Principal fields of activity:

Forest inventory; growth and yield; remote sensing; growth in relation to air pollution.

Special facilities: A remote sensing laboratory and a stem analysis laboratory.

Publications and services: Schriften der Forstlichen Fakultät (scientific papers), permanent publications in German, and international forestry journals.

Cooperation: The Institute collaborates with the "Deutscher Verband Forstlicher Forschungsanstalten"(German Union of Forest Research Institutes). It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR FORSTLICHE BETRIEBSWIRTSCHAFTSLEHRE
(Institute of Forest Economics)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 5
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393422

Status: A teaching and research institution of the Faculty of Forestry, University of Göttingen.

Staff: 8 faculty members

Field stations: None

Principal fields of activity:

Education: Fundamentals of Forest Economics.
Research: Economic problems of forest enterprises; evaluation of forest damage.

Special facilities: Instruments for forest mensuration, personal computers.

Publications and services: Special list of publications. Exchange of research methods and results and consultant services for forest enterprises. The library has some 7,000 books and publications.

Cooperation: The Institute cooperates with other Institutes of Forest Economics in Germany, Netherlands, Switzerland and Austria. It is not a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR FORSTNUTZUNG
ABT. I - HOLZFORSCHUNG UND WALDERSCHLIESSUNG
FORSTLICHE FAKULTÄT DER GEORG-AUGUST UNIVERSITÄT
(Institute of Forest Utilization,
Section I - Wood Research and Forest Opening,
Forestry Faculty, Georg-August University)
Büsgenweg 4
D-3400 Göttingen, Federal Republic of Germany

Tel. 0551|393542
Telex: 96703 UNIGOE D

Status: An institute of the Georg-August University, founded in 1927.

Staff: 8 research officers (5 Ph.Ds)
6 technicians
1 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Wood biology, wood quality, forest utilization and forest opening. Training.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in international technical and scientific journals. The library possesses 4,000 scientific and technical volumes; 10 subscriptions to international technical journals.

Cooperation: The Institute cooperates in the training of research and development staff from developing countries. At present, 5 Chileans and 1 Indonesian are working in the Institute on wood quality research. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and French.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR FORSTPOLITIK, HOLZMARKTLEHRE,
FORSTGESCHICHTE UND NATURSCHUTZ
(Institute of Forest Policy, Timber Marketing,
Forest History and Nature Conservation)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 5
D-3400 Göttingen, Federal Republic of Germany Tel. 0051|393412

Status: A university teaching and research institution of Lower Saxony.

Staff: 4 researchers
1 other

Field stations: None

Principal fields of activity:

Forest legislation, subsidies, minimizing conflicts by multiple use, recreation planning, nature conservation, arboriculture, landscape management.

History of forest area, ownership, timber and other uses of forests.

Special facilities: -

Publications and services: Research results are published in books and in scientific and other journals. The Institutes has its own library, but has also access to the libraries of the Forestry Faculty and of the central University Library.

Cooperation: The Institute collaborates with Forestry Universities in Beijing (China) and in Sopron (Hungary), and with Forestry Faculties in Istanbul (Turkey) and Concepción (Chile). It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR FORSTZOOLOGIE
(Institute of Forest Zoology)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 3
D-3400 Göttingen, Federal Republic of Germany Tel. 05511393602

Status: A teaching and research institution of the Forestry Faculty, University of Göttingen.

Staff: 5 faculty members

Field stations: None

Principal fields of activity:

Research on pine bark beetle; physiological and biochemical relationships between insects and their host plants; regulation of egg deposition of Spodoptera littoralis; vectors of oak wilt.

Special facilities: -

Publications and services: -
Possesses a library with 15 entomological journals.

Cooperation: The Institute collaborates with the Institute of Organic Chemistry, Erlangen, and with the Institute of Organic Chemistry in Heidelberg, F.R.G. It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR WALDARBEIT UND FORSTMASCHINENKUNDE,
FORSTLICHE ARBEITSWISSENSCHAFT
(Institute for Forest Labour, Forest Technology
and Work Science in Forestry)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 4
D-3400 Göttingen, Federal Republic of Germany Tel. 0551/39-3572

Status: A teaching and research institution of the Faculty of Forestry, University of Göttingen.

Staff: 3 faculty members
other (7 administrative, permanent, and 4 for scientific work, temporary)

Field stations: None

Principal fields of activity:

Research in forest technology and work science, development of standard time tables, evaluation of performance outputs.

Education and teaching in forest technology and work science, work studies in forestry.

Special facilities: Workshop for small construction work, instruments for work physiology studies and ergonomic research.

Publications and services: IWF-Informationen, Schriftenreihe der Forstlichen Fakultät, and diploma and doctoral theses. Various publications in periodicals.
The Institute maintains a library with 2,004 books and 14 periodicals.

Cooperation: The Institute cooperates with German forest technology institutes and with most German forestry administrations. It is member of IUFRO and collaborates in IUFRO Section 3.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR WALDBAU
DER GEORG-AUGUST-UNIVERSITÄT - Abt. I
(Institute of Silviculture of the
Georg August University - Dept. I)
Büsgenweg 1
D-3400 Göttingen, Federal Republic of Germany Tel. 0551|393672

Status: An Institute of the Forestry Faculty, University of Göttingen.

Staff: 6 academic staff

Field stations: 1

Principal fields of activity:

Natural regeneration of temperate forests.
Direct sawing, planting, tending, and thinning of forest stands.
Ecophysiology of tree species.
Root investigations.

Special facilities: Growth chambers and greenhouses.

Publications and services: Papers of the Forestry Faculty and of the Forestry Research Institute of Lower Saxony. The library has some 1000 books and about 20 periodicals.

Cooperation: The Institute collaborates with the "Deutscher Verband Forstlicher Forschungsanstalten"(German Union of Forestry Research Institutes). It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR WALDBAU
ABT. II: WALDBAU DER TROPEN UND NATURWALDFORSCHUNG
(Institute of Silviculture, Dept. II: Tropical
Silviculture and Research on Natural Forests)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 1
D-3400 Göttingen, Federal Republic of Germany Tel. 05511393652

Status: A teaching and research institution of the Forestry Faculty, University of Göttingen.

Staff: 5 research scientists (forest engineers)
5 technicians
2 clerks

Field stations: 1 (for shrub and tree production)

Principal fields of activity:

Research on natural forests in northern Germany in approx. 200 permanent controlled areas.

Tropical forestry research (silviculture) in different countries (Peru, Venezuela, Costa Rica, Indonesia, Philippines, etc.).

Special facilities: Soil laboratory, greenhouse, herbarium, computing facilities, climate chambers.

Publications and services: Pertinent publications through German forestry journals. There is a library with some 12,000 titles, in part specialized in tropical forestry.

Cooperation: The Institute collaborates with GTZ (German Agency for Technical Cooperation) and various universities in tropical countries (Peru, Venezuela, Costa Rica, Indonesia, Philippines). It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

INSTITUT FÜR WILDBIOLOGIE UND JAGDKUNDE
(Institute of Wildlife Biology and Game Management)
GEORG-AUGUST-UNIVERSITÄT
Büsgenweg 3
D-3400 Göttingen, Federal Republic of Germany
Tel. 05511393622
Telex: 96703 UNIGOE

Status: A teaching and research institution of the University of Göttingen.

Staff: 4 scientistis (permanent)
6 technicians (permanent)
plus a varying number of graduates, postgraduates and research staff, depending on projects.

Field stations: 3

Principal fields of activity:

Wildlife biology and management; species and habitat protection and management; re-introduction of endangered species; eco-ethology; pathology of game species; fishery and limnology; prevention of forest damage by vertebrates.

Special facilities: Scientific collections; tropical wildlife; radiotelemetry; population dynamics and ungulate management.

Publications and services: -
Field training of national park and wildlife personnel in tropical countries.
The library has some 5,000 books and 60 periodicals.

Cooperation: The Institute cooperates with the Wildlife Unit of the University of Juba, Sudan. It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

NIEDERSÄCHSISCHE FORSTLICHE VERSUCHSANSTALT
(Forestry Research Institute of Lower Saxony)
Grätzelstrasse 2 Tel. 0551-64036
D-3400 Göttingen, Federal Republic of Germany Cables:

Status: A public research institute established in 1952.

Staff: 18 research officers (13 Ph.Ds)
45 technicians
4 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Yield and silviculture; tree breeding; forest protection; and the impact of air pollution on forests.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, forestry bulletins and technical journals, and are disseminated through research conferences and seminars.

Cooperation: (information not available)

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

KURATORIUM FÜR WALDARBEIT UND FORSTTECHNIK (KWF)
(Federal Centre for Forest Operations and Techniques)
Spremberger Strasse 1
D-6114 Gross-Umstadt, Federal Republic of Germany Tel. 06078/2017

Status: A public institution founded in 1962 and a registered society with some 950 active and 150 supporting members. KWF is managed by a 26-member Board, and the staff work in collaboration with about 150 experts from KWF working and testing committees abroad. Predecessors: Gesellschaft für forstliche Arbeitswissenschaft (GEFFA) since 1927, Technische Zentralstelle der Deutschen Forstwirtschaft (TFZ) since 1928.

Staff: 9 research officers (2 with doctorate)
7 technicians
9 other (administrative/secretarial)

Field stations: Testing stations and forest work schools.

Principal fields of activity:

Testing and standardization of tools, machines and protective clothing; operations and systems research; and special studies on ergonomics and safety at work.

KWF is also a forest information centre with a data bank and provides basic and advanced training.

The research is conducted mainly in temperate zones.

Special facilities: None

Publications and services: Research results are published in the proceedings of research conferences, seminars and other meetings, and in the Centre's periodic technical communications ("Forsttechnische Informationen"), test reports, leaflets and other publications. The Centre maintains a library with some 1000 volumes and 20 periodicals.

Cooperation: Successful cooperation (typical for KWF) with about 150 experts from abroad in KWF working and testing committees. KWF collaborates also with forest research institutions, work science university institutes and similar non-forestry institutions in Germany. It exchanges information and cooperates with other European forestry research institutions. The Centre is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: German and English.

GERMANY, FEDERAL REPUBLIC

BUNDESFORSCHUNGSANSTALT FÜR FORST- UND HOLZWIRTSCHAFT
(Federal Research Centre for Forestry and Forest Products)
Leuschnerstrasse 91
P.O. Box 800210
D-2050 Hamburg 80, Federal Republic of Germany Tel. 040|73962-1

Status: A public institution established in 1946 by the fusion of several national institutes. It now comprises: the Institute of World Forestry and Ecology, the Institute of Forest Genetics and Tree Breeding, the Institute of Economy, the Institute of Wood Biology and Wood Preservation, the Institute of Wood Chemistry and Chemical Wood Technology, and the Institute of Wood Physics and Mechanical Wood Technology. The Federal Research Centre has extensive research and teaching responsibility, together with the Chairs of Wood Biology, Wood Technology and World Forestry of the University of Hamburg.

Staff: 60 research officers (56 Ph.Ds)
120 technicians
22 other (administrative|secretarial)
including staff members of the three Chairs of the University of Hamburg.

Field stations: None

Principal fields of activity:

All aspects of national and international forestry and forest products research.

The activities are carried out on a worldwide basis and involve also training.

The research is conducted in arid and semi-arid lands, the dry tropics, subtropics and humid tropics, and in temperate and mountainous zones.

Special facilities: The Centre maintains a xylarium and country files regarding forestry and wood industries in about 150 countries. It also has real-time DEC Computer systems VAX 11|750 and PDP 11|70.

Publications and services: Research results are published in annual reports, scientific journals, books and consultation reports for developing countries, and are disseminated through research conferences. The Centre issues also periodical communications ("Mitteilungen der Bundesforschungsanstalt für Forst- und Holzwirtschaft"). The library has about 80,000 items of literature related to forestry and forest products. There is a microfiche reader. The data base of the Information and Documentation Services comprises titles, bibliographical data and subject-related key words on more than 350,000 publications.

Cooperation: The Centre cooperates with many countries in training, exchange of staff and exchange of information. Cooperative research projects with developing countries include: forest ecology, agroforestry, forest genetics, work science, wood utilization, forest products industry, and wood preservation. The Centre is willing and in a position to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: German and English.

GERMANY, FEDERAL REPUBLIC

HESSISCHE FORSTLICHE VERSUCHSANSTALT
(Hessian Forest Research Station)
Prof. Oelkers-Strasse 6
Postfach 1308
D-3510 Hann. Münden 1
Federal Republic of Germany
Tel. 05541|1032

Status: Research station of the Hessian Forest Service, established in 1971.

Staff: 17 research officers (3 prof., 8 Ph.Ds)
24 technicians
7 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Forest tree breeding: provenance research; preservation of genetic diversity; progeny testing; forest tree breeding; vegetative propagation; breeding with poplars and willows.
Forest production and protection: stand establishment; stand tending; stand harvesting; forest environment; forest protection; forest hygiene, revitalisation.
Forest hydrology: water as forest yield; hydrological classification of forests; hydrologic-ecologic stress assessment, including preservation of evidence; water quality; soil-water balance; hydrological aspects of forest dieback.
Forest dieback: agents causing forest dieback; damage area assessment; remote sensing.

Special facilities: Forest nursery, climatic growth chamber, clean-bench.

Publications and services: Research results are published in annual reports (Forschungsberichte der Hessischen Forstlichen Versuchsanstal) and proceedings of research seminars and conferences. There is an extensive library for the subject-matter fields mentioned above.

Cooperation: Links exist with national and international institutions for exchanges of staff and of information in the above fields, as well as training of staff and fellows from developing countries; technical backstopping of German Technical Assistance projects for forestry in Brazil, People's Republic of China and Republic of Korea. The Station is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

BAYERISCHE FORSTLICHE VERSUCHS- UND FORSCHUNGSANSTALT
(Bavarian Forest Experiment and Research Station)
Schellingstrasse 12|14
D-8000 München 40, Federal Republic of Germany
Tel. 089|2180-3111

Status: A public institution of the Bavarian Ministry for Food, Agriculture and Forests, founded in 1881.

Staff: 21 research officers
16 technicians
8 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Forestry practice, forest seed testing, forest diseases, forest protection, tools, and timber economy.
Activities include management and development, in particular putting research results into practice, preparing guidelines and leaflets for forest operations, and other extension activities. The Station also provides a consultancy service.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: None

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, and in the publication "Forstliche Forschungsberichte München". The Station uses the library of the Faculty of Forestry of the University of Munich.

Cooperation: The Station exchanges information and cooperates with other European forestry research institutions. It is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR BIOKLIMATOLOGIE
UND ANGEWANDTE METEOROLOGIE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Bioclimatology and Applied
Meteorology, Faculty of Forestry,
Ludwig-Maximilians University)
Amalienstrasse 52 Tel. (089) 2180-3153
D-8000 München 40, Federal Republic of Germany Cables:

Status: A department of the Faculty of Forestry, University of Munich. The present department was established in 1972, as a successor to the former Forest Meteorology Institute of the Bavarian Forestry Research Institute, founded in 1881.

Staff: 6 research and development officers (2 Ph.Ds)
2 technicians
1 other (administrative|secretarial)

Field Stations: None

Principal fields of activity:

Forest meteorology, climatology, forest hydrology, bioclimatology, and applied meteorology.
Education.

The research is conducted on a worldwide basis.

Special facilities: (information not available)

Publications and services: Research results are published in scientific journals, books and scientific communications ("Wissenschaftliche Mitteilungen des Meteorologischen Instituts München). The library has 5,000 scientific and technical volumes; 50 subscriptions to international technical journals.

Cooperation: The Department exchanges information with other research institutions and cooperates in WMO (World Meteorological Organization) working groups. One Chinese and 1 Chilean are being trained at the Department in forest meteorology. The Department is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English, French and German.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR BODENKUNDE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Soil Science, Faculty of Forestry,
University of Munich)
Amalienstrasse 52
D-8000 München 40, Federal Republic of Germany Tel. 089/21803115

Status: A department of the Faculty of Forestry, University of Munich.

Staff: 15 permanent staff members
20 co-workers in temporary positions

Field stations: ca. 20 field experiments

Principal fields of activity:

Forest soils; impact of human interference on forest soils; forest nutrition and fertilization; site classification; geobotany; soil hydrology.

Special facilities: All modern facilities for analysing bio-elements in plant tissues, soil and water samples, and for determining water flow in soils are available.

Publications and services: Most publications are written in German. A list of publication titles and abstracts is made available every 1-2 years.

Cooperation: -
The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR FORSTBOTANIK
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Forest Botany, Faculty of Forestry,
Ludwig-Maximilians University)
Amalienstrasse 52 Tel. 089|21803124
D-8000 München 40, Federal Republic of Germany Telex: 05-29860 univmd

Status: Part of the Forestry Faculty, University of Munich.

Staff: 6-10 scientists

Field stations: -

Principal fields of activity:

Forest Botany (dendrology, gas exchange, physiology, morphology and histology). Forest pathology, mainly mycosis. Research on forest die-back.

Special facilities: -

Publications and services: Publication of the "European Journal of Forest Pathology" (Ed. Paul Parey, Hamburg) and several books. The Department has library facilities.

Cooperation: -
The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR FORSTLICHE ARBEITSWISSENSCHAFT
UND VERFAHRENSTECHNIK
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Forest Work Science and Operational
Methods in Forestry, Faculty of Forestry,
Ludwig-Maximilians University)
Hohenlindenerstrasse 5 Tel. 089|912038
D-8000 München 80, Federal Republic of Germany Cables:

Status: A teaching and research department of the Faculty of Forestry, University of Munich. The department was established in 1971.

Staff: 4 research officers (2 Ph.Ds)
2 technicians
2 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Soil mechanics, terrain classification, planning the opening-up of operations, forestry road building and maintenance, work science, operational methods in forestry, particularly harvesting, transportation and utilization.

Twenty percent of the research programme is devoted to fuelwood and energy studies, in particular economic aspects; inventory; harvesting and transport methods; density and calorific value; processing of fuelwood and conversion into energy, including use of residues; technical and economic efficiency comparisons with alternate fuels; pyrolysis, gasification and pelletization.

Training, extension and development.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in international technical journals and are disseminated through research seminars. The library possesses about 1,800 scientific and technical volumes; 12 subscriptions to international technical journals.

Cooperation: The department cooperates in training, exchange of information, and funding of joint projects. There has been research cooperation with the Pakistan Forest Institute in Peshawar, Pakistan. At present, 1 Pakistani is undergoing training in ergonomics at the Department. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR FORSTPOLITIK UND FORSTGESCHICHTE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Forest Policy and Forest History,
Faculty of Forestry, Ludwig-Maximilians
University)
Schellingstrasse 12 Tel. 2180-3551
D-8000 München 40 Cables:
Federal Republic of Germany

Status: A department within the Faculty of Forestry, University of Munich, established in 1968 along with the Bavarian Research Station. In 1978 it became a separate institution.

Staff: 3 research officers (2 Ph.Ds)
1.5 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Socio-economic and environmental aspects of forestry, with special emphasis on fuelwood and energy problems.
Training.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: None

Publications and services: Research results are published in annual reports, together with the Bavarian Forest Experiment Station, and in German forestry journals, and are disseminated in research colloquia. The Department issues the periodic publication "Forstliche Forschungsberichte München" once or twice a year. The library has 2,000 scientific volumes and about 5,000 reprints.

Cooperation: International cooperation consists of exchanges of staff and of information. The Department is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR FORSTPOLITIK UND FORSTLICHE BETRIEBS-
WIRTSCHAFTSLEHRE
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Forest Policy and Forest Economics,
Faculty of Forestry, Ludwig-Maximilians University)
Amalienstrasse 52
D-8000 München 40, Federal Republic of Germany Tel. 089|2180-3137

Status: Part of the Forestry Faculty of the University of Munich.

Staff: 3 scientists
3 employees

Field stations: -

Principal fields of activity:

Forest economics, forest policy, timber market science, forest taxation theory, forest administration theory, operations research.

Special facilities: -

Publications and services: Publications in German, and forestry periodicals. The Department has a library with 6,000 books and 40 periodicals.

Cooperation: -
The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR LANDSCHAFTSTECHNIK
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILANS-UNIVERSITÄT
(Chair of Landscape Technology,
Faculty of Forestry, Ludwig-Maximilians University)
Winzererstrasse 45
D-8000 München 40, Federal Republic of Germany Tel. 089/3081031

Status: A department of the Faculty of Forestry of the University of Munich.

Staff: 12-15 persons

Field stations: None

Principal fields of activity:

Landscape ecology and landscape planning, leisure-time activities and recreation planning, nature conservation, bio-engineering, surveying, remote sensing.

Special facilities: -

Publications and services: -

Cooperation: -
The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR WALDBAU UND FORSTEINRICHTUNG
FORSTWISSENSCHAFTLICHE FAKULTÄT
DER LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Silviculture, Forest Taxation and Planning,
Faculty of Forestry, Ludwig-Maximilians University)
Amalienstrasse 52
D-8000 München 40, Federal Republic of Germany Tel. 089|2180-3159

Status: Part of the Forestry Faculty of the University of Munich.

Staff: 2 professors
5 collaborators
4 employees

Field stations: -

Principal fields of activity:

Experimental research in thinning Scots Pine (Pinus silvestris), spruce (Picea abies) and oak (Quercus petrea); spacing trials with Scots Pine; regeneration of mixed forests in mountains; afforestation of depleted areas in the mountains of north-eastern and southern Bavaria.

Special facilities: -

Publications and services: -
The Department maintains a library.

Cooperation: Cooperative links with forestry institutions in several foreign countries (e.g. Chile, Brazil, Pakistan and Indonesia). The Department is a member of IUFRO.

Official working language: German
Official working language for international correspondence: English.

GERMANY, FEDERAL REPUBLIC

LEHRSTUHL FÜR WALDWACHSTUMSKUNDE
FORSTWISSENSCHAFTLICHE FAKULTÄT
LUDWIG-MAXIMILIANS-UNIVERSITÄT
(Chair of Forest Yield Science,
Faculty of Forestry, Ludwig-
Maximilians University)
Amalienstrasse 52 Tel. 089-21803120
D-8000 München 40, Federal Republic of Germany Cables:

Status: A department within the Faculty of Forestry, University of Munich, founded in 1878.

Staff: 4 research and development officers (3 Ph.Ds)
2 technical assistants
1 other (secretarial)

Field stations: None

Principal fields of activity:

Growth and yield observations on long-term sample plots; growth model studies; yield table construction; research on thinning; and studies on the influence of site factors on growth and yield.
Training.

The research is conducted mainly in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in the serial publications "Forstliche Forschungsberichte München" and "Tagungsberichte der Sektion Ertragskunde des DVFFA", and are disseminated through research conferences and seminars. The library possesses 1,250 scientific and technical volumes; 15 subscriptions to international technical journals.

Cooperation: The Department is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English and German.

GREECE

INSTITUT DE RECHERCHES FORESTIERES D'ATHENES
Terma Alkamanos, Ilissia
GR-11528 Athénes, Grèce
Tél. 7784-850
Adresse télégraphique:

Statut: Institution publique créée en 1929, dépendant de la Direction des Recherches Forestières, Ministère de l'Agriculture (Ippokratous, 3-5, GR-10164 Athènes, tél. 3607-439).

Effectifs: 17 chercheurs (dont 6 avec doctorat)
18 techniciens
10 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Ecologie forestière.
Amélioration des arbres forestiers, amélioration génétique.
Sylviculture (méthodes de préparation du sol, méthodes sylvicoles, étude de l'accroissement et du rendement).
Protection des forêts et plantations (lutte contre les insectes, les maladies de la forêt et les incendies).
Technologie des produits forestiers, y compris le traitement du bois de feu, densité et valeur calorifique.
Hydrologie forestière.
Ergonomie.
10% du programme de recherche sont consacrés à la dendroénergie.

Principales zones écologiques des activités de recherche: zones temporées et montagneuses, et terres semi-arides.

Installations spéciales: une xylothèque avec 500 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, dans la revue "Recherche forestière" (trimestrielle) et dans une revue annuelle. L'Institut possède une bibliothèque avec 6.000 volumes; 255 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux portent sur les échanges de personnel et d'informations et sur le financement de projets conjoints. L'Institut est disposé à renforcer les contacts avec les institutions de recherche dans les pays en développement. Il est membre de L'IUFRO.

Langue officielle de travail: grec
Langues officielles de travail pour la correspondance internationale: anglais et français.

GREECE

INSTITUT DE RECHERCHES FORESTIERES DE THESSALONIQUE
Loutra Thermis, Vassilika
GR-57006 Thessaloniki, Grèce Tél. (031) 461-171/2/3

Statut: Institution publique créée en 1963, dépendant de la Direction des Recherches Forestières, Ministère de l'Agriculture (Ippokratous 3-5, GR-10164 Athènes, tél. 3607439).

Effectifs: 17 chercheurs (dont 10 avec doctorat)
14 techniciens
4 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Sylviculture et génétique forestière.
Facteurs du milieu, écologie.
Protection de la forêt.
Hydrologie forestière.
Technologie des produits forestiers.
Pâturages.
Techniques forestières.
Aménagement et économie forestiers.
Paysage forestier.
Culture du peuplier.

Principales zones écologiques des activités de recherche: la zone mésoméditerranéenne et les zones tempérées et montagneuses.

Installations spéciales: un herbier (échantillons: plantes 700; champignons 300) et une collection d'insectes (50 échantillons). Monolithes de sols: 28.

Publications et services: Les résultats de la recherche sont publiés dans la revue "Recherche forestière". Ils sont également diffusés à l'occasion des séminaires sur la recherche. L'Institut a une bibliothèque avec 2000 volumes; 105 abonnements à des revues techniques et internationales.

Coopération: Les contacts internationaux portent sur les échanges de personnel et d'informations et sur le financement de projets conjoints. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: grec
Langues officielles de travail pour la correspondance internationale: anglais, français, allemand et italien.

GREECE

LABORATOIRE DE PATURAGES FORESTIERS
FACULTE DE SYLVICULTURE ET D'ENVIRONNEMENT FORESTIER
UNIVERSITE ARISTOTELIEN DE THESSALONIQUE
GR-54006 Thessaloniki, Grèce

Tél. 992524
Adresse télégraphique:

Statut: Institution universitaire créée en 1967 et installée à la Faculté de Sylviculture en 1972. Son effectif a débuté avec une personne et compte maintenant 8 chercheurs.

Effectifs: 8 responsables de la recherche et du développement (dont 4 avec doctorat)
1 technicien

Stations de recherche sur le terrain: 1

Principaux domaines d'activité:

Etude écophysiologique de l'écosystème pastoral.
Amélioration des pâturages.
Aménagement des pâturages.
Valeur nutritive pastorale.
Formation, gestion et développement.

Les principales zones écologiques des activités de recherche: les zones tempérées, montagneuses et subtropicales, et les terres semi-arides.

Installations spéciales: un herbier avec 120 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans les périodiques helléniques ou étrangères, et sont diffusés à l'occasion des conférences et séminaires sur la recherche. Il y a une bibliothèque avec 410 volumes; 10 abonnements à des revues techniques internationales.

Coopération: Le laboratoire a des contacts internationaux officiels avec l'Espagne, la France, l'Italie et les U.S.A. en ce qui concerne l'échange d'informations, et avec les pays de la CEE pour assistance financière directe. Il est disposé à établir des contacts avec les institutions de recherche dans les pays en développement. Le laboratoire est membre de l'IUFRO.

Langue officielle de travail: grec
Langues officielles de travail pour la correspondance internationale: français et anglais.

HUNGARY

ERDÉSZETI TUDOMÁNYOS INTÉZET
(Forest Research Institute)
Frankel Léo, u. 42-44
P.O. Box 17
1277 Budapest

Tel. (1) 150-624
Telex: 22-6914

Status: A public research institute established in 1949 with a staff of 25. At present, the staff totals 337.

Staff: 82 research and development officers (8 Ph.Ds)
192 technicians
63 other (administrative/secretarial)

Field stations: 8

Principal fields of activity:

Tree breeding and propagation; environmental protection; organizational development; ecology, afforestation, silviculture, yield and forest management; forest protection; technical development, including machine development and testing; forest economy.
Five percent of the research programme is devoted to fuelwood and energy studies.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences, and in the Institute's publications "Erdészeti Kutatások" (issued every 2-3 years) and "Information in Parts" (irregular issues). The library has 25,000 scientific and technical volumes, 50 percent of which are at the field stations; 27 subscriptions to international technical journals.

Cooperation: At present, 3 persons (1 from Iraq, 1 from Syria and 1 from Vietnam) are undergoing training at the Institute. The Institute is a member of IUFRO.

Official working language: Hungarian
Official working languages for international correspondence: English, German and Russian.

ICELAND

ICELAND FOREST SERVICE RESEARCH STATION
Mógilsá
P.O. Box 140
240 Varmá
Tel. 911666014

Status: A public research station of the National Forest Service, founded in 1967.

Staff: 3 research officers
2 other

Field stations: None

Principal fields of activity:

Applied forestry research, covering seed biology, provenance and tree improvement, general silviculture, entomology and mensuration.

General advisory service for state and private forestry.

Special facilities: None

Publications and services: Research results are published in an annual report to the Director of the Forest Service and in journals. There is a small library with scientific volumes, international journals (by subscription), reports, etc.

Cooperation: The Station is a member of the Joint Nordic Forest Research Council (SNS) and is involved in working parties on arboreta, tree improvement and provenance research and forest entomology. It is a member of IUFRO.

Official working language: Icelandic
Official working language for international correspondence: English.

IRELAND

RESEARCH BRANCH
FOREST AND WILDLIFE SERVICE
Sidmonton Place
Bray, Co. Wicklow

Tel. 01|867751

Status: A public research institute of the Department of Tourism, Fisheries and Forestry.

Staff: 15 research officers (3 Ph.Ds)
24 technicians
8 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Soils and nutrition, site productivity, biomass, genetics, pathology, entomology, crop structure, wood technology, inventory, agroforestry, pollution monitoring, and arboretum management.

Special facilities: A herbarium and an arboretum.

Publications and services: Research results are published in annual reports, internal reports, IUFRO reports, and in the journal "Irish Forestry" (issued twice a year), and are disseminated through research conferences and seminars. The library has 928 scientific and technical volumes; 72 subscriptions to international technical journals. A microfiche reader is available.

Cooperation: The Research Branch exchanges information with other national research institutes. The Branch is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

IRELAND

DEPARTMENT OF FORESTRY
UNIVERSITY COLLEGE, DUBLIN
Belfield
Dublin 4

Tel. 01/693244
Telex: 3269EI

Status: A university teaching and research department of the University College, Dublin, established in 1912.

Staff: 3 research officers
1 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Silviculture and agroforestry.
Remote sensing and satellite imagery.
Graduate research on forest mensuration techniques, yield models and forest management simulation, and fire indices.

Special facilities: Worldwide collection of wood species. Electron microscope and controlled environment facilities.

Publications and services: Research results are published in national journals and in research reports of the Faculty of Agriculture. The library has microfiche facilities.

Cooperation: The Department cooperates with the Department of Computer Science in developing remote sensing techniques, and with the Research Section of the Forest and Wildlife Service in forest mensuration and silvicultural research. It is a member of IUFRO.

Official working language: English.

IRELAND

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS
Ballymun Road
Dublin 9

Tel. 37 01 01
Cables: RESEARCH DUBLIN
Telex: 25449

Status: A public institution of the Central Government, established in 1964 for the development of data for the exploitation of Irish timber.

Staff: 15 research and development officers
4 technicians
2 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Data bank on physical, biological and mechanical properties of Itish timber.
Training, extension and development.

Special facilities: (information not available)

Publications and services: Research results are published in private reports.

Cooperation: The Institute is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

ISRAEL

DEPARTMENT OF FORESTRY
AGRICULTURAL RESEARCH ORGANIZATION
Ilanot 42805, D.N. Lev Hasharon

Tel. 053-99611
Cables:

Status: A public institution established in 1949 as part of the Forest Department, Ministry of Agriculture. In 1961 it became part of the Agricultural Research Organization of the Ministry of Agriculture.

Staff: 8 research officers (7 Ph.Ds)
3 technicians
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest ecology, silviculture, and wood utilization.

The research is conducted mainly in arid and semi-arid lands and in sub-tropical zones.

Special facilities: A herbarium with 1,200 specimens and a xylarium with 1,800 specimens.

Publications and services: Research results are published in triannual reports, department leaflets (irregular issues) and in various journals, and are disseminated through research seminars, lectures and demonstrations. The library has 3,500 scientific and technical volumes; 42 subscriptions to international technical journals.

Cooperation: The Department is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Hebrew
Official working language for international correspondence: English.

ITALY

ISTITUTO SPERIMENTALE PER LA SELVICOLTURA
(Institut Expérimental pour la Sylviculture)
Viale Santa Margherita, 80
I-52100 Arezzo, Italie

Tél. 0575-353021
Adresse télégraphique:

Statut: Institut public, créé en 1922 comme Station Expérimentale de Sylviculture, devenue en 1929 station de recherche du Ministère de l'Agriculture. En 1967, celle-ci a été réorganisée et est devenue une organisation de recherche autonome sous la tutelle du Ministère de l'Agriculture et des Forêts.

Effectifs: 35 chercheurs (dont 16 avec doctorat)
18 techniciens
7 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Ecologie; protection de l'environnement, lutte contre les incendies en forêt.
Sylviculture: génétique forestière, reboisement, méthodes sylvicoles, accroissement et rendements.
Etude socio-économique de la production du bois de feu (aspects économiques).

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses, et terres semi-arides.

Installations spéciales: un herbier et des arboreta avec 2.500 espèces.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les Annales de l'Institut. Il y a une bibliothèque avec 8.000 volumes; 250 abonnements à des revues techniques internationales.

Coopération: L'Institut mène des activités dans les pays en développement à travers les organisations nationales et internationales. Il accepte les visites et séjours de boursiers étrangers, et il échange du personnel et des informations avec d'autres institutions. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO DI SPERIMENTAZIONE PER LA PIOPPICOLTURA - SAF (Gruppo ENCC)
[Institut d'Expérimentation pour la Populiculture - SAF (Groupe ENCC)]
Strada per Frassineto Po, 32
Casella postale 116 Tél. 0142|54654
I-15033 Casale Monferrato AL, Italie Télex: I 612004 SAFSPA

Statut: L'Institut, créé en 1937, fut acquis en 1952 par l'Office National pour la Cellulose et le Papier (Ente Nazionale Cellulosa e Carta). Depuis 1979, la gestion de l'Institut a été confiée à la SAF, Société du Groupe ENCC (Via dei Crociferi 19, 00187 Roma, Italie; tél. (06) 6786955; 6782697; adresse télégraphique: AGRICARTA 00187 ROMA; télex: SAFSPA I 612004).

Effectifs: 10 chercheurs (tous avec doctorat)
16 techniciens
8 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Techniques culturales, amélioration génétique; entomologie; pathologie; économie.

Installations spéciales: Collections de génotypes de peuplier et de saule; une collection d'insectes.

Publications et services: Les résultats des recherches sont publiés dans "Quaderni di Ricerca SAF" et dans les revues spécialisées. L'Institut possède une bibliothèque avec 4.000 volumes environ; 180 abonnements à des revues techniques.

Coopération: Les contacts internationaux comprennent l'échange de personnel et d'informations. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues de travail pour la correspondance internationale: français et anglais.

ITALY

ACCADEMIA ITALIANA DI SCIENZE FORESTALI
(Académie italienne des sciences forestières)
Piazza Edison, 11
I-50133 Firenze, Italie
Tél. 055|570348

Statut: Fondation.

Effectis: 1 libraire
1 comptable
1 secrétaire administrative
2 employés à temps complet
2 employés à temps partiel

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Economie, politique et législation forestières.
Sylviculture et protection de l'environnement.
Génie forestier.
Technologie et industries forestières.
Documentation forestière.

Installations spéciales: -

Publications et services: Publication de périodiques telles que "L'Italia Forestale e Montana" (biensuelle) et périodiques annuelles; "Bollettino della Bibliografia Forestale Italiana" (bulletin annuel); et publications spéciales de contenu forestier, ainsi que des comptes-rendus de réunions, conférences et séminaires. Il y a une bibliothèque avec 5.000 volumes et 388 périodiques, dont 236 courantes.

Coopération: Maintient des contacts avec les départements forestiers des universités italiennes, avec le Ministère de l'Agriculture et des Forêts, ainsi qu'avec les organisations de l'IUFRO et autres organisations forestières nationales et internationales. L'Académie est membre de l'IUFRO.

Langue officielle de travail: italien
Langue officielle de travail pour la correspondance internationale: français et anglais.

ITALY

CENTRO DI STUDIO PER LA PATOLOGIA DELLE SPECIE LEGNOSE MONTANE
(Centre d'Etude pour la Pathologie des Espèces Ligneuses de la Montagne)
Piazzale delle Cascine, 28
I-50144 Firenze, Italie
Tél. 055|360546
Adresse télégraphique:

Statut: Institution publique créée en 1972, dépendant du "Consiglio Nazionale delle Ricerche"(Piazzale Aldo Moro, 7, 00100-Roma, tél. 06|4993.

Effectifs: 6 chercheurs (tous avec doctorat)
6 techniciens

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Biologie et méthodologie des principaux pathogènes des forêts; lutte par voie génétique des principaux pathogènes du pin, cyprès, platane et orme. Vulgarisation et développement.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales; une mycothèque.

Publications et services: Les résultats de la recherche sont publiés dans des revues nationales et internationales et diffusés à l'occasion des conférences sur la recherche. Le Centre possède une bibliothèque avec 578 volumes; 9 abonnements à des revues techniques internationales.

Coopération: Le Centre est disposé d'établir des contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO MIGLIORAMENTO GENETICO DELLE PIANTE FORESTALI
(Institut pour l'amélioration génétique des arbres forestiers)
Via S. Bonaventura, 13
I-50145 Firenze, Italie
Tél. 055|311069

Statut: Institut de recherche dépendant du Conseil National de la Recherche (Consiglio Nazionale delle Ricerche), créé en 1983.

Effectifs: 4 chercheurs
1 technicien

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Génécologie, études isoenzymatiques, écophysiologie.

Installations spéciales: une pépinière, matériels écophysiologiques, appareils de germination et instruments d'électrophorèse.

Publications et services: Les résultants de la recherche sont publiés dans des revues scientifiques. Il y a une bibliothèque avec 100 volumes scientifiques et techniques; 10 abonnements à des revues scientifiques internationales.

Coopération: L'Institut collabore avec plusieurs institutions de recherche en Europe. Au niveau international, il maintient des contacts en matière de formation, échange de personnel et échange d'informations. L'Institut est disposé à établir des contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO PER LA RICERCA SUL LEGNO
(Institut pour la Recherche sur le Bois)
Piazza Edison, 11
I-50133 Firenze, Italie

Tél. (39) 055-570210; 571581|2
Télex: 572458 ILFI I

Statut: Institution publique créée en 1954, dépendant du Conseil National de la Recherche (Consiglio Nazionale delle Ricerche, Piazzale Aldo Moro, 7, 00100-Roma, tél. 4993; adresse télégraphique: 610076).

Effectifs: 8 chercheurs
7 techniciens
3 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité :

Anatomie, caractéristiques physico-mécaniques et défauts du bois.
Préservation et biodégradation du bois.
Chimie du bois, densité, valeur calorifique.
Mécanisation et exploitation forestières.
Etude socio-économique et technique de l'utilisation des résidus d'élagage et d'exploitation, et des frais de transport.
Formation.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales: une xylothèque (10.000 échantillons), cinémathèque et photothèque

Publications et services: Les résultats de la recherche sont publiés dans la revue "Contributi scientifico-pratici per una migliore conoscenza e utilizzazione del legno" (semestrielle) et dans des revues spécialisées, et sont diffusés à l'occasion des séminaires sur la recherche. L'Institut maintient une bibliothèque avec 1.200 volumes; 140 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux sont limités à l'échange d'informations. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO DI ECONOMICA E DI ESTIMO FORESTALE
UNIVERSITÀ DEGLI STUDI DI FIRENZE
(Institut d'Economie et d'Estimation Forestière,
Université de Florence)
Piazzale delle Cascine, 18
I-50144 Firenze, Italie
Tél. 35.20.51; 36.16.47

Statut: Institut universitaire relevant de l'Università degli Studi di Firenze (Piazza San Marco, 4, 50121 Firenze, tél. 27571), créé en 1956 à la suite de la scission de l'Institut d'Economie Agraire.

Effectifs: 2 chercheurs
2 techniciens
1 autre (administratif/secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Economie du marché des produits forestiers.
Modèle d'entreprise.
Politique forestière.
Evaluation des investissements.
Estimation forestière.
Coopération forestière - comptabilité forestière.
Recherche socio-économique sur la production du bois de feu.
Formation et administration.

Principale zone écologique des activités de recherche: zone montagneuse.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les revues spécialisées (Italia Agricola, Giornale di Agricoltura, Annuario Italiano, Il Montanaro d'Italia - Monti e Boschi, etc.) et diffusés à l'occasion des séminaires sur la recherche. L'Institut dispose d'une bibliothèque (6.000 volumes) avec lecteurs de microfiche; 30 abonnements à des revues techniques internationales.

Coopération: L'Institut mène des activités de recherche appliquée avec l'Université Nationale de Somalie, Mogadiscio. Les autres contacts internationaux portent sur l'échange d'informations. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français, anglais, portugais.

ITALY

ISTITUTO DI PATOLOGIA E ZOOLOGIA FORESTALE E AGRARIA
(Institut de pathologie et zoologie forestière et agricole)
UNIVERSITA DEGLI STUDI DI FIRENZE (University of Florence)
Piazzale delle Cascine, 28 Tél. 055|360546
I-50144 Firenze, Italie Adresse télégraphique:

Statut: Institut universitaire créé en 1926, relevant du Ministère de l'Instruction publique (Viale di Trastevere, 00100 Roma, tél. 06|5859).

Effectifs: 6 chercheurs (tous avec doctorat)
3 techniciens
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Biologie, méthodologie des principaux pathogènes de la forêt et moyens de lutte.
Formation et vulgarisation.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses.

Installations spéciales: un herbier et une mycothèque.

Publications et services: Les résultats de la recherche sont publiés dans des revues nationales et internationales et sont diffusés à l'occasion des conférences sur la recherche. L'Institut dispose d'une bibliothèque avec 1.443 volumes; 42 abonnements à des revues techniques internationales.

Coopération: L'Institut collabore avec l'Institut de Pathologie Végétale de Mogadiscio, Somalie, en matière de recherches sur les maladies du Sorghum spp. Les autres contacts internationaux portent sur les échanges de personnel et d'informations. L'Institut a formé un chercheur somalien aux maladies du Sorghum. Il est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO DI SELVICOLTURA
UNIVERSITÀ DEGLI STUDI DI FIRENZE
(Institut de Sylviculture,
Université de Florence)
Via S. Bonaventura, 13
I-50145 Firenze, Italie
Tel. 055/375147

Statut: Institut universitaire créé en 1869. Il devient Institut Supérieur National Forestier en 1912 et Institut Supérieur Agricole et Forestier en 1924. Depuis 1936, il appartient à la Faculté Agricole, Université de Florence (Piazza San Marco, 4, 50121 Firenze, tél. 27571).

Effectifs: 7 chercheurs
4 techniciens
2 autres (administratifs/secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Ecologie forestière: milieu forestier, régénération naturelle, feux, effets des exploitations sur la structure et la productivité des peuplements.
Sylviculture: pépinières, plantations, conversion des taillis, sélection des provenances et amélioration d'espèces forestières, méthodes sylvicoles, lutte contre les feux, accroissement et rendement.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses et terres semi-arides.

Installations spéciales: Collections de provenances, hybrides et progeny tests de pins méditerranéens; collections de cultivars de châtaignier et de provenances et clones d'Alnus cordata. Un laboratoire pour les graines forestières et une collection d'objets et documents concernant l'histoire forestière.

Publications et services: Les résultats de la recherche sont publiés dans différentes revues scientifiques. L'Institut possède une bibliothèque avec 1.600 volumes; 20 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux sont limités aux échanges de personnel et d'informations. L'Institut est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: anglais, français et allemand.

ITALY

ISTITUTO DI TECNOLOGIA FORESTALE
UNIVERSITÀ DEGLI STUDI DI FIRENZE
(Institut de Technologie Forestière,
Université de Florence)
Via San Bonaventura, 13
I-50145 Firenze, Italie
Tél. 055-372.497

Statut: Institut universitaire créé en 1955, relevant de l'Université de Florence (Piazza San Marco, 1, 50123-Firenze, tél. 055-27571).

Effectifs: 4 chercheurs (tous avec doctorat)
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Tecnologie du bois (propriétés, emploi).
Techniques et matériel de travail en forêt.
Economie du bois et du travail en forêt (aspect économique du transport du bois, méthodes de récolte et de transport).
Systèmes de production du bois de feu.
Formation.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales: une xylothèque avec 300 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans les journaux scientifiques et techniques et diffusés à l'occasion des séminaires sur la recherche. L'Institut dispose d'une bibliothèque avec 300 volumes; 18 abonnements à des revues techniques internationales.

Coopération: (informations pas disponibles) L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il n'est pas membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

LABORATORI DI BOTANICA AGRARIA E FORESTALE
DIPARTIMENTO DI BIOLOGIA VEGETALE
UNIVERSITA' DEGLI STUDI DI FIRENZE
(Laboratoires de Botanique Agricole et Forestière,
Département de Biologie Végétale, Université de Florence)
Piazzale delle Cascine, 28
I-50144 Firenze, Italie
Tél. 0039-551365798

Statut: Institution universitaire créée en 1869. D'abord Laboratoire de Botanique agricole, elle devient Institut de Botanique agricole en 1936. Celui-ci fut incorporé à l'Institut de Botanique de la Faculté de Sciences et devient Département de Biologie végétale.

Effectifs: 11 chercheurs
6 techniciens

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Systématique de taxa d'intérêt forestier.
Multiplication végétative par bouturage et micropropagation.
Ecologie de la germination et de la dormance.
Resistence au gel.
Pollution et dépérissement des forêts.
Embryologie.
Morphogénèse de la régénération.
Typologie forestière.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses.

Installations spéciales: Les laboratoires possèdent un herbier avec 40.000 échantillons et une xylothèque avec 200 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans différentes revues scientifiques italiennes et internationales. Les laboratoires possèdent une bibliothèque avec 500 volumes; 11 abonnements à des revues scientifiques internationales. Les chercheurs utilisent aussi la bibliothèque du Département.

Coopération: Echange d'informations avec autres institutions européennes. Les laboratoires sont disposés à établir des contacts de recherche avec institutions étrangères. Ils ne sont pas membres de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internatioale: français et anglais.

ITALY

ISTITUTO DI SELVICOLTURA E ASSESTAMENTO FORESTALE
UNIVERSITÀ DI TORINO
(Institut de Sylviculture et d'Aménagement Forestier,
Université de Turin)
Via Leonardo da Vinci, 44
I-10095 Grugliasco, Italie
Tél. 011/4115270

Statut: Institut universitaire créé en 1979, dépendant de l'Université de Turin.

Effectifs: 9 responsables de la recherche et du développement (dont 8 avec doctorat)
1 technicien
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Ecologie forestière, recherche sur le milieu.
Reboisement des territoires en cours de dégradation.
Récupération des terres marginales.
Nématodes et mycorhizes.
Lutte contre les incendies.
Techniques de pépinière.
Méthodes sylvicoles.
Formation.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales: un herbier avec 270 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans les revues techniques et scientifiques du secteur forestier et sont diffusés à l'occasion des conférences sur la recherche. L'Institut possède une bibliothèque avec 750 volumes; 10 abonnements à des revues techniques internationales.

Coopération: L'Institut ne mène pas d'activités dans les pays en développement, mais il est disposé à renforcer les contacts de recherche avec les institutions dans ces pays. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langue officielle de travail pour la correspondance internationale: français.

ITALY

CATTEDRE DI SISTEMAZIONI IDRAULICO-FORESTALI
E DI IDROLOGIA FORESTALE
FACOLTA' DI AGRARIA
UNIVERSITA' DI PADOVA
(Chaires d'aménagement des bassins versants
et d'hydrologie forestière, Faculté d'Agriculture,
Université de Padoue)
Via Gradenigo, 6
I-35131 Padova, Italie Tél. 049|8072004

Statut: Section "Defense du sol" du Département du Territoire de l'Université de Padoue.

Effectifs: 7 chercheurs (dont 4 avec doctorat)
1 technicien
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 5 bassins expérimentaux

Principaux domaines d'activité:

Techniques et travaux pour la correction des torrents et l'aménagement des bassins versants. Transport solide dans les torrents. Modellisation hydrologique des bassins de montagne. Prévisions des crues (aussi en temps réel). Evapo-transpiration.

Installations spéciales: 1 terminal lié à l'élaborateur C.D.C, 4 ordinateurs personnels, une imprimante et une table à digitaliser.

Publications et services: Les résultats de la recherche sont publiés dans des revues nationales et internationales et diffusés par échanges d'information scientifique. On publie les "Quaderni di Idronomia Montana". La bibliothèque contient 1300 volumes; 55 abonnements à des revues techniques internationales.

Coopération: Collaboration étroite avec l'INCYTH, Mendoza, Argentine. On est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. La Faculté n'est pas membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français, anglais, espagnol.

ITALY

ISTITUTO DE SELVICOLTURA DELL'UNIVERSITA' DI PADOVA
(Institut de Sylviculture, Université de Padoue)
I-35100 Padova, Italie Tél. 049|8071763; 8071216

Statut: Institut de la Faculté forestière de l'Université.

Effectifs: 8 professeurs
1 chercheur
8 techniciens

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Ecologie, sylviculture, botanique, aménagement forestier, dendrométrie.

Installations spéciales: Laboratoire de chimie, laboratoire de pédologie; microscopie; collection botanique; centre pour l'élaboration des données.

Publications et services: un rapport annuel de l'Institut et un rapport annuel sur le "Corso di Cultura in Ecologia" (cours d'écologie). La bibliothèque a 3.500 volumes et 250 collections de revues.

Coopération: -
L'Institut est membre de l'IUFRO.

Langue officielle de travail: italien
Langue officielle de travail pour la correspondance internationale: anglais et français.

ITALY

CENTRO DI SPERIMENTAZIONE AGRICOLA E FORESTALE - SAF (Gruppo ENCC)
(Centre d'Expérimentation Agricole et Forestière - SAF (Groupe ENCC))
Via Casalotti, 300
Casella Postale 9079 Tél. 06/6960241
I-00100 Roma, Italie Télex: I 612004 SAFSPA

Statut: Institut créé en 1953 par l'Office National pour la Cellulose et le Papier (Ente Nazionale Cellulosa e Carta). Depuis 1979, la gestion de l'Institut a été confiée à la S.A.F., société du Groupe E.N.C.C. (via dei Crociferi, 19, 00187 Rome; tél. (06) 6786955 et 6782697; adresse télégraphique: AGRICARTA 00187 ROMA; télex: I 612004 SAFSPA).

Effectifs: 25 chercheurs (tous avec doctorat)
27 techniciens
13 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Sylviculture et arborisation à bois; amélioration génétique des espèces forestières; entomologie et pathologie forestière; techniques de pépinière.

Exploitation forestière; qualité du bois.

Economie forestière; recherche socio-économique de la production du bois (aspects institutionnels et aspects économiques).

Développement.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses, et zones semi-arides.

Installations spéciales: un herbier avec 5.200 échantillons; une collection d'insectes et collections de génotypes de peuplier (520 clones), de conifères et d'eucalyptus.

Publications et services: Les résultats de la recherche sont publiés dans "Quaderni di Ricerca SAF" et dans les revues spécialisées. Le Centre possède une bibliothèque avec 8.100 volumes; 340 abonnements à des revues techniques.

Coopération: Les contacts internationaux comprennent les échanges de personnel et d'informations. Le Centre est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues de travail pour la correspondance internationale: français et anglais.

ITALY

C.N.R. - ISTITUTO PER LA TECNOLOGIA DEL LEGNO
(C.N.R. - Institut pour la Technologie du Bois)
Via Biasi, 75
I-38010 San Michele|Adige, Italie

Tél. 0461|650168
Télex: 400453 ILSMA

Statut: Institution publique créée en 1981, dépendant du Conseil National de la Recherche (Consiglio Nazionale delle Ricerche, Piazzale Aldo Moro 7, 00100-Roma, tél. 06|4993).

Effectifs: 8 chercheurs
12 techniciens
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Technologie industrielle: transformation, traitement et finissage du bois; conversion du bois de feu en énergie, utilisation des résidus, normalisation dimensionnelle du bois de feu, préservation du bois.
Etude des problèmes ergonomiques et d'organisation des exploitations forestières et de transformation industrielle.
Etude économique de l'utilisation des résidus d'élagage.
Lutte contre les incendies.
Documentation technique et scientifique.

Principales zones écologiques des activités de recherche: (informations pas disponibles)

Installations spéciales: une xylothèque avec 200 échantillons.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et sous forme de cahiers, bulletins et résumés bibliographiques, et sont diffusés à l'occasion des séminaires sur la recherche. L'Institut possède une bibliothèque avec 5.000 volumes; 85 abonnements à des revues techniques internationales et 100 échanges.

Coopération: Les contacts internationaux sont limités à l'échange d'informations avec d'autres institutions et avec la Communauté économique européenne pour assistance financière directe. L'Institut est disposé à renforcer les contacts de recherche avec les instituutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

CENTRO INTERNAZIONALE LEGNO (CIL)
(Centre International du Bois)
Borgo Grotta Gigante, 57
I-34010 Sgonico (Trieste), Italie

Tél. 040|227382|1
Adresse télégraphique:

Statut: Institution privée créée en 1967 comme centre de documentation sur l'économie du bois au niveau mondial. A partir de 1976, elle devient un centre de recherches et d'études techniques sur les ressources renouvelables lignocellulosiques.

Effectifs: 4 responsables de la recherche et du développement (tous avec doctorat)
3 techniciens
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 1

Principaux domaines d'activité:

Recherche appliquée.
Etudes techniques et économiques, expérimentation technologique et assistance technique sur les ressources renouvelables lignocellulosiques.
Projets de transformation industrielle du bois, y compris les utilisations énergétiques.
Utilisation des résidus lignocellulosiques (agricoles, forestiers, industriels), dérivés du bois.
Recherche socio-économique sur la production et l'utilisation du bois comme source d'énergie.
Formation, gestion, developpement, banque de données.

Principale zone écologique des activités de recherche: zone montagneuse.

Installations spéciales: une xylothèque avec 300 échantillons, et une collection d'échantillons d'utilisation technologique alternative des ressources lignocellulosiques.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels. Le Centre possède une bibliothèque avec 600 volumes; 30 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux se limitent à des échanges d'informations avec l'IUFRO, dont le centre est membre.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français, anglais et allemand.

ITALY

ISTITUTO PER LE PIANTE DA LEGNO E L'AMBIENTE, S.p.A.
(Institut pour les Plantes Ligneuses et l'Environnement)
Corso Casale, 476 Tél. 011/898933
I-10132 Torino, Italie Adresse télégraphique:

Statut: Institution publique créée en 1980 par la Région du Piémont comme organisation de recherche pour la région. A l'origine, c'était un institut national pour les plantes ligneuses, créé en 1952 par la Société Papetière Burgo Torino.

Effectifs: 21 responsables de la recherche et du développement (dont 20 avec doctorat)
13 techniciens
7 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Sylviculture: pépinière, arboriculture ligneuse (méthodes sylvicoles, arbres à usage multiple, plantation, systèmes de production, accroissement et rendement), biologie et pathologie forestières.
Exploitation forestière: méthodes de récolte et de transport.
Etudes du sol: cartographie, planification, irrigation.
Inventaire forestier, planification forestière, cartographie.
Technologie industrielle: recyclage des sous-produits organiques, conversion du bois en énergie, biomasse pour énergie, dérivés du bois.
Recherche socio-économique sur la production et l'utilisation du bois de feu à des fins énergétiques (aspects économiques, rentabilité).
10% du programme de recherche sont consacrés à la dendroénergie.
Formation, vulgarisation, gestion et assistance technique.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses et zones tropicales humides.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans des rapports sur la recherche et dans des revues scientifiques (Piemonte Rurale, Piemonte Agricolo, Energia Solare et Fonti Alternative). Il y a une bibliothèque avec 6.000 volumes environ; 35 abonnements à des revues techniques internationales.

Coopération: L'Institut a des activités dans les pays en développement concernant l'utilisation énergétique du bois et la récupération des sous-produits pour fertilisants et biogaz, et études des sols. Les autres contacts internationaux portent sur la formation, les échanges de personnel et d'informations et le financement de projets conjoints. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français et anglais.

ITALY

ISTITUTO SPERIMENTALE PER L'ASSESTAMENTO FORESTALE E PER L'ALPICOLTURA
(Institut Expérimental pour l'Aménagement Forestier et le Pastoralisme)
Via U. Giordano, 8
I-38050 Villazzano, Italie Tél. 0461|924248

Statut: Organisme autonome de recherche forestière sous la tutelle du Ministère de l'Agriculture et des Forêts.

Effectifs: 8 chercheurs
3 techniciens
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Aménagement forestier.
Biométrie forestière et dendrométrie.
Inventaires forestiers.
Pastoralisme.
Culture des plantes aromatiques et médicinales.

Principales zones écologiques des activités de recherche: zones tempérées et montagneuses.

Installations spéciales: -

Publications et services: Les résultats de la recherche sont publiés dans les annales et dans les revues scientifiques. Il y a une bibliothèque avec 1000 volumes; 30 abonnements à des revues techniques internationales et 250 échanges. Dispose d'un lecteur de microfiche.

Coopération: Les contacts internationaux sont limités à des échanges d'informations. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français, anglais, allemand.

ITALY

ISTITUTO BIOLOGICO SELVICOLTURALE
(Institut de Biologie Forestière)
Università degli Studi della Tuscia
Via San Camillo de Lellis
I-01100 Viterbo, Italie

Tél. 0761|251330
Adresse télégraphique:

Statut: Institut universitaire créé en 1980, dépendant de l'Université de Viterbo (Università degli Studi della Tuscia, via San Giovanni Decollato, 01100 Viterbo, tél. 0761|222856).

Effectifs: 4 chercheurs (tous avec doctorat)
3 techniciens
2 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Ecologie forestière; physiologie des arbres forestiers.
Amélioration génétique; multiplication végétative.
Sylviculture; techniques de reboisement en zones arides; méthodes sylvicoles, arbres à usage multiple.
Recherche socio-économique sur la production du bois de feu (aspects économiques).
Recherche et technologie industrielle: charbon de bois, utilisation des résidus, pyrolyse et gazéification.
10% du programme de recherche sont consacrés à la dendroénergie.
Formation, vulgarisation.

Principales zones écologiques des activités de recherche: zones tempérées, zones montagneuses et terres semi-arides.

Installations spéciales: (informations pas disponibles)

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les revues scientifiques, et sont diffusés à l'occasion des conférences et séminaires sur la recherche. L'Institut a une bibliothèque avec 200 volumes; 25 abonnements à des revues techniques internationales.

Coopération: L'Institut a des activités en phase de programmation avec la "Faculdade de Agronomia e Engenharia, Universidade E. Mondlane", Maputo, Mozambique. Il échange du personnel et des informations avec d'autres institutions internationales. L'Institut est disposé à renforcer les contacts de recherche avec les institutions dans les pays en développement. Il est membre de l'IUFRO.

Langue officielle de travail: italien
Langues officielles de travail pour la correspondance internationale: français, anglais et espagnol.

NETHERLANDS

STEVIN LABORATORIUM VOOR TOEGEPASTE MECHANICA,
CONSTRUCTIES EN MATERIALEN
SECTIE HOUTCONSTRUCTIES
(Stevin Laboratory for Mechanics, Structures
and Materials, Section "Timber Structures")
Stevinweg 1
P.O. Box 5048
NL-2600 GA Delft

Tel. 015/785721
Telex: 38151

Status: A research laboratory of the Department of Civil Engineering of the Delft University of Technology, established in 1955.

Staff (timber engineering only): 4 research and development officers
4 technicians

Field stations: None

Principal fields of activity:

Use of wood and wood products in building, especially in load-bearing structures.

Special facilities: Laboratory facilities for testing materials, joints, structural parts (beams and trusses up to ca. 20 m length; loads up to 500 tons compression and 200 tons tension). Frames for long duration tests on joints, beams, etc.

Publications and services: Results are published in technical reports and scientific journals and further disseminated through lectures, code work, cooperation in committees, etc.

Cooperation: The Laboratory cooperates in Committees of the "Centrum Hout" and in Code Committees. At the international level, with RILEM, CIB, ISO, and Eurocode. It is not a member of IUFRO, but participates in the Structural Group of IUFRO Division 5.

Official working language: Dutch
Official working language for international correspondence: English.

NETHERLANDS

INTERNATIONAAL INSTITUUT VOOR LUCHTKAARTERING
EN AARDKUNDE (ITC)
(International Institute for Aerial Survey
and Earth Sciences)
Boulevard 1945, No. 350
P.O. Box 6 Tel. 320330
NL-7500 AA Enschede Telex: 44525

Status: A university institute established in 1951 for training in aerial photogrammetry and remote sensing, especially for students from developing countries.

Staff: 1 development officer (for fuelwood and energy research, which represents only 1% of the research programme)

Field stations: None

Principal fields of activity:

Strategy development for Ministry of Development assistance.
Inventory of non-forest fuelwood resources.
Training and development.

The research is conducted mainly in arid and semi-arid lands.

Special facilities: Remote sensing equipment.

Publications and services: Research results are published in the ITC Journal. The library possesses 11,500 scientific and technical volumes; 350 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The main purpose of the Institute is to train staff from overseas. At present, 20 research and development staff from developing countries are being trained in the Institute. The Institute cooperates internationally in training and in the exchange of staff and is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Dutch
Official working language for international correspondence: English.

NETHERLANDS

RIJKSINSTITUUT VOOR NATURBEHEER
(Research Institute for Nature Management)
Broekhuizerlaan 2
P.O. Box 46
NL-3956 ZR Leersum

Tel. 3434/52941
Cables: RIN/LEERSUM

Status: A public research institute established in 1969, providing a scientific basis for the formulation of government policies and carrying out activities pertaining to conservation and management of nature and natural resources.

Staff: 50 research officers
50 technicians
55 other (administrative/secretarial)

Field stations: 1 (Island of Terschelling)

Principal fields of activity:

Botany, including forest ecology and forest classification; Zoology, Ornithology, Hydrobiology, Estuarine Ecology, Landscape Ecology, Environmental Pollution, Chemical Analysis. Apart from these eight research departments there is a Department of Advisory Services which coordinates the Institute's consulting work and forms a link between the researchers and those involved in policy-making and in the application of nature management.

Special facilities: -

Publications and services: Research results are communicated in reports and published in national and international scientific journals. These publications are listed in the Institute's Annual Report. RIN reports (in Dutch with English summary) contain research results and management advice. A report series entitled "RIN Contributions to Research on Management of Natural Resources" deals with projects in developing countries. A Handbook on Nature Management in the Netherlands, containing information and experience accumulated by the Institute, is published as a series. The Annual Report (in English) is sent to scientific institutions and research organizations upon request.

Cooperation: The Institue maintains close links with several research institutes in the field of forestry and forest conservation in Europe. Its involvement in activities outside Europe, generally in the form of development cooperation projects, includes the following fields of interest: resource inventories and ecological research for land-use planning; ecological consequences of changes in land use; surveying and monitoring of plant and animal resources; management planning for the rational exploitation of natural areas, and of species and their habitats; environmental impact assessment studies; and contributions to training programmes for personnel specialized in nature conservation. The Institute is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English, German and French.

NETHERLANDS

RIJKSHERBARIUM
(State Herbarium)
Schelpenkade 6
P.O. Box 9514
NL-2300 RA Leiden

Tel. 071|130541

Status: A research institute of Leiden University.

Staff: 24 research officers
40 technical and administrative staff

Field stations: None

Principal fields of activity:

Taxonomy of flowering plants and ferns from Malaysia.
Morphology (including wood anatomy) of higher plants.
Taxonomy of cryptogams.
Taxonomy and floristics of the Netherlands.

Special facilities: The Rijksherbarium contains well over 2,600,000 specimens of dried plants. There is a wood collection of about 20,000 specimens.

Publications and services: The Herbarium publishes five periodicals:
- "Blumea", a journal of taxonomy and plant geography (bi-annual, ca. 500 pp.).
- "Persoonia", a journal of systematic mycology (bi-annual, ca. 300 pp.).
- "Gorteria", a journal of taxonomy and floristics of European plants (every two months, ca. 250 pp.).
- "Flora Malesiana Bulletin" which reports on progress in Malasian botany (incl. forest botany, annual).
- "IAWA Bulletin", and international journal of wood anatomy (quarterly, 350 pp per annum).

The Herbarium has a large library of taxonomic, floristic and general botanical literature.

Cooperation: The Rijksherbarium collaborates with many institutions of systematic botany and forestry, especially with the Herbarium Bogoriense in Bogor, Indonesia. It is not a member of IUFRO.

Official working language: Dutch
Official working language for international correspondence: English.

NETHERLANDS

RIJKSDIENST VOOR DE IJSSELMEERPOLDERS
(Lake Ijssel Polders Development Authority)
Zuiderwagenplein 2
Postbus 600
NL-8200 AP Lelystad

Tel. 03200/99111
Telex: 40115

Status: A public organization founded to develop the new polders in the Lake Ijssel area (162,000 ha). The scientific department advises on this development. Within the scientific department there is a forestry section.

Staff: 1 research officer
15 technicians
3 other

Field stations: None

Principal fields of activity:

Development of hydrology in the young forests.
Development of the natural willow forests.
Study of the economic aspects of the polder forests.
Ecosystems research concerning both natural and man-made forests.

Special facilities: None

Publications and services: Research results are published in the Dutch Forestry Bulletin and in the reports of the Lake Ijssel Polders Development Authority. The organization has library facilities.

Cooperation: Forestry research is carried out in cooperation with the Dorschkamp Research Institute for Forestry and Landscape Planning, the University of Amsterdam, and the Research Institute of Nature Conservation. The organization is a member of IUFRO.

Official working language: Dutch
Official languages for international correspondence: English, German and French.

NETHERLANDS

RIJKSINSTITUUT VOOR ONDERZOEK IN DE BOS-
EN LANDSCHAPSBOUW "DE DORSCHKAMP"
(Dorschkamp Research Institute for Forestry
and Landscape Planning)
Bosrandweg 20
P.O. Box 23 Tel. 08370-19050
NL-6700 AA Wageningen Cables:

Status: A public research institute founded in 1947, and a unit of the National Agricultural Research Organization.

Staff: 36 research officers (2 Ph.Ds)
37 technicians
23 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture, tree breeding, soil science, physiology, ecology, entomology, pathology, growth and yield, economics and marketing, forest work and technique, in vitro culture, landscape architecture, landscape ecology, environmental sociology and psychology, and statistics.
Research into fuelwood production involves silvicultural methods, pests and diseases, effect of repeated cropping on the soil, growth and yield studies, harvesting and transport methods, and density and calorific values of fuelwood species.
Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research seminars, and in the serial publications "Uitvoerige Verslagen" (detailed reports) (3 issues per year); "Mededelingen" (bulletins) (5-10 issues per year); "Berichten" (leaflets) (3-5 per year); and "Rapporten" (reports) (about 40 per year). The library possesses 3,650 scientific and technical volumes; 441 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Institute is involved with project identification and formulation, backstopping, evaluation, and agroforestry consultancies. It is willing and in a position to develop research links with institutions in developing countries. The Institute is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English, French, German, and Spanish.

NETHERLANDS

STICHTING BOS EN HOUT (SBH)
(Forest and Wood Institute)
Bosrandweg 5
P.O. Box 253
NL-6700 AG Wageningen

Tel. 8370-10121
Cables:

Status: A private institute founded in 1965 by the Dutch pulp and paper industry, and since 1981 an independent institute. It is managed by a Board consisting of representatives of forestry, the timber trade, the pulp and paper industry, and the wood-based industry. The Institute is financed by these categories and by the Dutch Government.

Staff: 3 research and development officers (2 Ph.Ds)
1 technician
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest policy, forest economics, wood marketing, and poplar growing.
Five percent of the research programme is devoted to fuelwood production studies, including silvicultural methods, line forestry, fuelwood rotations, growth and yield studies.
Promotion of wood production.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in special project reports, and in the publication "Bos en Hout Berichten" (10-12 issues per year). The Institute maintains a library and subscribes to 12 international technical journals.

Cooperation: The Institute cooperates internationally through exchange of information. It is willing and in a position to develop research links with institutions in developing countries. The Institute is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English and French.

NETHERLANDS

VAKGROEP BOSBOUWTECHNIEK
LANDBOUWHOGESCHOOL
(Department of Forest Technique
and Forest Products, Agricultural University)
Generaal Foulkesweg 64
P.O. Box 342
NL-6700 AH Wageningen

Tel. 08370-82120
Telex: 45015 BLHWG

Status: A university teaching and research institution established in 1883.

Staff: 5 research officers
3 technicians
1 other (administrative/secretarial)

Field stations: 2 educational forests, together with the Departments of Silviculture and of Forest Management.

Principal fields of activity:

Forest establishment and harvesting systems; ergonomics and safety; forest products and minor forest products; and operational analysis.
Five percent of the research programme is devoted to fuelwood and energy studies, including economic aspects; fire control systems; multipurpose trees and fuelwood production systems; harvesting and transport methods; density, calorific value and chemical content; industrial research and technology of fuelwood processing; pyrolysis and gasification; and technical and economic comparison of wood-based fuel and alternative fuels.
Training.

The research is conducted on a worldwide basis.

Special facilities: A xylarium with 10,000 specimens and laboratories.

Publications and services: Research results are published in technical journals and are disseminated through research conferences. There is a library with microfiche readers and computerized systems.

Cooperation: The Department cooperates internationally in training and in exchange of information. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English, French and German.

NETHERLANDS

VAKGROEP BOSHUISHOUDKUNDE
LANDBOUWHOGESCHOOL
(Department of Forest Management,
Agricultural University)
Generaal Foulkesweg 64
P.O. Box 342
NL-6700 AH Wageningen

Tel. 08370/82115
Telex: 45015

Status: A university teaching and research institution established in 1883.

Staff: 7 research officers
4 techniciens
1 other (administrative/secretarial)

Field stations: 2 educational forests (1 state, 1 privately-owned) belonging to the Departments of Silviculture and Forest Techniques.

Principal fields of activity:

Forest management, mensuration, social forestry, watershed management, agroforestry, forest policy, forest history and forest economics, forests and trees in land-use management and planning.

Training.

Ten percent of the research programme is devoted to fuelwood and energy activities.

The research is conducted both in the tropics and in temperate zones.

Special facilities: Experimental plots on 28 sites in the Netherlands.

Publications and services: Research results are published in scientific forestry journals and disseminated through research conferences and seminars. The library has 16,000 scientific and technical volumes; 380 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Department has research activities in Indonesia, the Sahel zone and in Costa Rica. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English, French and German.

NETHERLANDS

VAKGROEP BOSTEELT
LANDBOUWHOGESCHOOL
(Department of Silviculture,
Agricultural University)
Generaal Foulkesweg 64
P.O. Box 342
NL-6700 AH Wageningen

Tel. 08370-84426
Telex: 45015

Status: A university teaching and research institution established in 1883.

Staff: 10 research officers (2 Ph.Ds)
8 technicians
1 other (administrative/secretarial)

Field stations: 1 (in Suriname)

Principal fields of activity:

Silvics of forest trees; propagation, selection and breeding; silvicultural systems design; forest ecology and rejuvenation.
Graduate thesis research is being conducted on the following aspects of fuelwood production: characteristics of preferred fuelwood species, fuelwood species, fuelwood production systems, including fuelwood in agroforestry systems.
Training.

The research is conducted mainly in the humid tropics and in the temperate zone.

Special facilities: A herbarium with 500 specimens.

Publications and services: Research results are published in technical journals and books. The Department has a library with 9,000 scientific and technical volumes on forestry subjects; 380 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Department cooperates in joint research on silvicultural systems design with the Ministère de l'Education Nationale et de la Recherche en République Côte-d'Ivoire via Centre ORSTOM|Néerlandais, Abidjan. A cooperative research project on forest ecology and rejuvenation has recently been concluded with the University of Suriname, Paramaribo. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English and French.

NETHERLANDS

VAKGROEP NATUURBEHEER
LANDBOUWHOGESCHOOL
(Department of Nature Conservation,
Agricultural University)
Ritzema Bosweg 32A
P.O. Box 8080
NL-6700 DD Wageningen

Tel. 8370-83174
Cables:

Status: A university teaching and research department of the Agricultural University of Wageningen. The Department of Nature Conservation was founded in 1963.

Staff: 14 research officers (5 Ph.Ds)
7 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Hydrobiology of small streams and brackish waters.
Management of natural vegetation, in particular grazing in reserves in the Netherlands and the carrying capacity of savanna vegetation.
Three percent of the research is devoted to fuelwood or energy activities, including multiple use of lands for fodder and fuelwood production, and the origin of land conflicts and their solution.
Training.

The research is conducted mainly in the dry tropics and in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in national and international scientific and technical journals and are disseminated through research conferences and seminars. There is a library with microfiche readers.

Cooperation: Training and exchange of staff, especially training of research and development staff from developing countries. Joint research with several universities and research institutes in West Africa and Indonesia has been carried out on the livestock carrying capacity of savanna vegetation. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: Dutch
Official working languages for international correspondence: English, French and German.

NORWAY

INSTITUTT FOR SKOGØKONOMI
NORGES LANDBRUKSHØGSKOLE
(Institute of Forest Economics,
Agricultural University of Norway)
P.O. Box 44 Tel. (02) 94 98 30
N-1432 Ås-NLH Cables:

Status: A teaching and research institute of the Agricultural University of Norway. The Institute of Forest Economics was founded in 1954.

Staff: 10 research and development officers (4 Ph.Ds)
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest economics, with particular reference to business economics and market economics; forest policy; and resource economics.
Fifteen percent of the research programme is devoted to the social and economic aspects of fuelwood production.
Training.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in the Institute's research reports (36 in 1982, including also minor works) and are disseminated through research seminars. The library possesses 10,000 scientific and technical volumes; 1 subscription to international technical journals. Microfiche readers are available.

Cooperation: The Institute cooperates internationally in training and in the exchange of information. The Forestry Division of the University was involved in staff training for the Division of Forestry, University of Dar es-Salaam, Morogoro, Tanzania. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

INSTITUTT FOR SKOGTAKSASJON
(Department of Forest Mensuration and Management)
AGRICULTURAL UNIVERSITY OF NORWAY
P.O. Box 43
N-1432 Ås-NLH
Tel. 02/949860

Status: A teaching and research department of the Agricultural University of Norway, founded in 1899.

Staff: 7 research officers (1 Ph.D)
1 technician
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest inventory methods, also with aerial photography.
Forest yield forecasting.
Forest management planning.

Special facilities: -

Publications and services: Research results are published in the Department's internal reports and in the reports of the Norwegian Forest Research Institute. The Department has its own small library, but uses also the general library of the University.

Cooperation: The Department cooperates in staff training and in the exchange of information on an international basis. The School of Forestry of the Agricultural University of Norway has a cooperative agreement with the Faculty of Forestry of Sokoine University of Agriculture, Tanzania. The Department is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

INSTITUTT FOR TRETEKNOLOGI
NORGES LANDBRUKSHØGSKOLE
(Institute of Wood Technology and Utilization,
Agricultural University of Norway)
P.O. Box 45
N-1432 Ås-NLH

Tel. 02/949835
Telex: 17125 NLHBI N

Status: A teaching and research institute of the Agricultural University of Norway, founded in 1860.

Staff: 4 research officers (3 Ph.Ds)
2 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood and wood products. Wood quality, wood density, mechanical properties.
Research into fuelwood and energy comprises only a small part of research activities but includes studies on the perceived role of trees and forests in development and rural welfare; the density and calorific values of fuelwood species; the industrial technology of wood processing; pyrolysis and gasification of wood.
Wood preservation.
Training.

The research is conducted mainly in the temperate zones.

Special facilities: Controlled environment chambers; Instron 10-ton testing machine; a large collection of wood anatomy slides.

Publications and services: Research results are published in annual reports and in the scientific reports of the Agriculture University of Norway (10-20 issues per year). The Institute uses the main library of the University. Microfiche readers are available.

Cooperation: The Institute cooperates internationally in staff training and in the exchange of scientific information. It has been actively involved in staff training for the Division of Forestry of the University of Dar es Salaam, Morogoro, Tanzania. The Institute has at present 1 research and development staff from Tanzania and 1 from Ghana, who are working or being trained in the Institute. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

NORSK INSTITUTT FOR SKOGFORSKNING (NISK)
(Norwegian Forest Research Institute)
P.O. Box 61
N-1432 Ås-NLH

Tel. (02) 94 96 60; 94 96 61
Telex: 17125 NLHBI

Status: A public research institute within the Royal Ministry of Agriculture, founded in 1917.

Staff: 60 research officers (18 Ph.Ds)
75 technicians
21 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Forest resources assessment; tree breeding; forest ecology; regeneration, growth and stand treatment; forest protection (entomology, pathology); harvesting; and wood science.
Extension.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: A herbarium, a xylarium, and a comprehensive collection of fungi and insects from the Nordic countries.

Publications and services: Research results are published in annual reports, research papers (18 in 1983) and other reports of the Institute (10 in 1983), and in the publication "Norsk Skogbruk" (1-4 pages per issue), and are disseminated through research conferences and seminars. The library has 678 metres of scientific and technical volumes; approx. 900 subscriptions to international technical journals (including 755 which are received as gifts or in exchange for reports and research papers issued by the Institute). Microfiche readers are available.

Cooperation: The Institute is currently training an Ugandan research worker in harvesting. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

NORSK INSTITUTT FOR SKOGFORSKNING - BERGEN
(Norwegian Forest Research Institute - Bergen)
N-5047 Fana
Tel. (05) 11.84.20

Status: A public research institute within the Royal Ministry of Agriculture, founded in 1916.

Staff: 6 research officers
13 technicians
10 other

Field stations: 1

Principal fields of activity:

Research on tree species (many exotics) and provenances; afforestation; growth and stand treatment.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: Facilities for seed extraction.

Publications and services: Research results are published in annual reports, research papers and other reports of the Norwegian Forest Research Institute in Ås-NLH, and are disseminated through research conferences and seminars. The library has 236 sq. m. of scientific and technical volumes; 224 subscriptions to national and international journals.

Cooperation: The Institute collaborates closely with the Norwegian Forest Research Institute in Ås-NLH. It is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

A/L HERNES INSTITUTT
(Hernes Institute)
N-2410 Hernes
Tel. 064/26200

Status: Institute for physical/medical treatment and occupational rehabilitation, mainly of forest workers and farmers. The Institute is a company owned by seven public and private organizations.

Staff: 2 scientific personnel
19 technical and administrative staff

Field stations: 1

Principal fields of activity:

Physical and medical treatment and rehabilitation. Training in working techniques for forest workers, farmers and other persons doing heavy work.

Special facilities: A swimming pool (10.5 x 12.5 m, water heated to 34°C), a laboratory for determining state of health and muscle strength, and three workshops.

Publications and services: Publication of a report for external distribution (every five years) and an internal annual report. There is a small library for internal use.

Cooperation: The Institute collaborates with NISK (Norwegian Forest Research Institute). It is not a member of IUFRO.

Official working language: Norwegian
Official working language for itnernational correspondence: English.

NORWAY

NORSK TRETEKNISK INSTITUTT
(The Norwegian Institute of Wood Technology)
Forskningsveien 3 B
P.O. Box 337, Blindern
N-0314 Oslo 3

Tel. 02/46.98.80
Cables: TRETEKNISK
Telex 74864 tsf n

Status: A private research institute founded in 1949.

Staff: research and development officers
technicians
other (administrative/secretarial)

Field stations: None (2 district officers)

Principal fields of activity:

Sawmilling and planing technology; technology and anatomy; wood structures and other wood products; timber protection; gluing and surface treatment; and chipboard.

NTI administers the following inspection schemes:

- rafter constructions
- the Norwegian Impregnation Inspectorate
- the House-Building Inspectorate
- the Norwegian Laminated Timber Inspectorate
- the Norwegian Chipboard Inspectorate.

Special facilities: -

Publications and services: Research results are published in various types of technical reports and are also disseminated through mill visits and through an association of technicians in the sawmill and other wood industries. The library has some 20,000 technical and scientific volumes; 150 subscriptions to international journals.

Cooperation: The Institute cooperates internationally in the exchange of information, particularly with the other nordic countries and the two British research organizations TRADA and BREE (the annual Anglo-Scandinavian meeting). It is willing and in a position to strengthen research links with institutions in developing countries. The Institute is currently supporting plans to establish a Timber Research Centre in Zimbabwe. It is a member of IUFRO.

Official working language: Nowegian
Official working language for international correspondence: English.

NORWAY

PAPIRINDUSTRIENS FORSKNINGSINSTITUTT
(Norwegian Pulp and Paper Research Institute)
Forskningsvejen 3
P.O. Box 150 Tel. 140090
Oslo 3 Cables:

Status: A private research institute founded in 1923.

Staff: 35 research and development officers (2 Ph.Ds)
22 technicians
18 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Mechanical pulping; printing and writing paper; systems analysis and operational research; industrial development process control; and use of oxygen, ozone and peroxide in bleaching processes.
Training and development.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and various types of technical reports, and are also disseminated through frequent mill visits. The library has some 20,000 scientific and technical volumes; 144 subscriptions to international technical journals.

Cooperation: The Institute cooperates internationally in the exchange of research information. It is a member of the World Association of Paper and Paper-Making Research Institutes (WAPPRI), an organization with several members from developing countries (India, Indonesia and Philippines). The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

SKOGBRUKETS OG SKOGINDUSTRIENS FORSKNINGSRÅD
(The Norwegian Forestry and Forest Industry Research Council)
Forskningsveien 3
Box 250
Vinderen
N-0319 Oslo 3

Tel. 02/14.00.90
Telex: 78171 forsk n

Status: A private Research Council founded in 1948.

Staff: 3 research officers
4 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

The Council coordinates research in fields of common interest to Norwegian forestry and forest products industries. Its Transport Division conducts research on the transportation of wood.

Special facilities: -

Publications and services: The Council publishes special and annual reports and provides consultant services regarding wood transportation.

Cooperation: The Transport Division collaborates closely with its Scandinavian counterparts. The Research Council is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

NORWAY

DIREKTORATET FOR NATURVORVALTNING
VILTFORSKNINGEN
(Directorate for Nature Management,
Wildlife Research Division)
Tungasletta 2
N-7000 Trondheim
Tel. 07/913020

Status: Advisers for nature management and to the Ministry of Environment.

Staff: 12 biologists

Field stations: 2

Principal fields of activity:

Wildlife research, particularly population dynamics of moose, red deer and reindeer, as well as tetraonid birds.

Effects of hydro-electric dams on wildlife.

Seabirds/oil.

Large predatory mammals/livestock and domestic reindeer.

General conservation of nature.

Special facilities: -

Publications and services: Publishes the series "Meddelelser fra norsk viltforskning" and "Vitrapport". List of available reprints. The Directorate maintains a specialized library.

Cooperation: Maintains cooperative links with all relevant research organizations in Norway. The Directorate is a member of IUFRO.

Official working language: Norwegian
Official working language for international correspondence: English.

POLAND

OŚRODEK BADAWCZO-ROZWOJOWY PRZEMYSŁU PŁYT DREWNOPOCHODNYCH
(Research and Development Centre for Wood-Based Panels)
ul. Mickiewicza 8 Tel. 216.716
83-262 Czarna Woda Telex: 0512470 obr cw pl

Status: A research and development centre of the Ministry of Forestry and Forest Industries, founded in 1974, now under the Ministry of Agriculture, Forestry and Food Economy.

Staff: 55 research and development officers
42 technicians
15 other (administrative|secretarial)

Field stations: 3

Principal fields of activity:

Wood-based panels; improvement and intensification of manufacture; modernization of mills and industrial equipment; product quality control; use of new residual lignocellulosic raw materials; collaboration with heavy industry to develop modern equipment for panel production; environment and environmental protection (25% of total productivity).

Special facilities: Facilities for semi-technical investigations, a design office, and a workshop for prototype work.

Publications and services: The Centre publishes an Information Bulletin (series ISSN 0209-2190) four times a year. There is a library with 3,800 scientific and technical volumes and 10,000 patent specifications; 41 subscriptions to international technical journals. The Centre also has a scientific, technical, economic and patent information service.

Cooperation: The Centre maintains links with Cuba and Bulgaria for exchange of technical information. It is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: English, Russian and German.

POLAND

OŚRODEK BADAWCZO - ROZWOJOWY PRODUKCJI LEŚNEJ "LAS"
("Las" Research and Development Centre for Forestry Production)
ul. Kołobrzeska 54
05-510 Konstancin-Jeziorna 1 Tel. 56-46-68

Status: A public research institution of the Ministry of Agriculture, Forestry and Forest Industries, founded in 1975.

Staff: 43 research and development officers
7 technicians
10 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Technology of manufacture of wild fruits, mushrooms and venison; breeding of fur-bearing animals; cultivation of willow trees.

Special facilities: (information not available)

Publication and services: Research results are published in annual reports and in the Centre's serial publication "Materiały informacyne" (four issues per year). The library has 2,500 scientific and technical volumes; 86 subscriptions to international technical journals.

Cooperation: The Centre exchanges information with other national research agencies. It is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: English and Russian.

POLAND

KATEDRA UŻYTKOWANIA LASU I DREWNA AKADEMII ROLNICZEJ
W KRAKOWIE
(Department of Forest and Wood Utilization,
Krakow University of Agriculture)
Al. 29-Listopada 46
31-425 Kraków
Tel. 11-91-44, ext. 325

Status: A research and training institution of the University of Agriculture, founded in 1946.

Staff: 16 research officers and faculty (11 Ph.Ds)
2 technicians

Field stations: 1

Principal fields of activity:

Harvesting and logging operations; timber transportation methods; forest ergonomics; properties of raw materials, their standardization and utilization; bark utilization for particleboard production; utilization of forest by-products.

Training and development.

The research is conducted mainly in the temperate zone.

Special facilities: A xylarium with 250 species; Brüel and Kjaer devices for vibration and acoustic measurements.

Publications and services: The results of studies are published in scientific papers of the University, in annual reports and in other Polish and foreign forestry journals. The library contains 2000 scientific and technical volumes. Microfiche readers are available.

Cooperation: The Department maintains international links with Czechoslovakia, Finland, German Democratic Republic, U.S.A. and Yugoslavia. It is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: English, Russian, Spanish, French and German.

POLAND

INSTYTUT CELULOZOWO-PAPIERNICZY
(Pulp and Paper Research Institute)
ul. Gdanska 121
P.O. Box 300
90-950 Łódź

Tel. (010-48-42) 36-53-00
Cables: ICEPAP
Telex: 884559 ICEP PL

Status: A public research institute of the Ministry of Chemical and Lighter Industries, formerly Ministry of Forestry and Forest Industries, founded in 1952.

Staff: 81 research and development officers (11 Ph.Ds)
57 technicians
9 librarians and documentalists
47 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

All aspects of the pulp and paper industries, in particular putting research results into practice; environment protection, air and water pollution control; design and testing of paperboard packagings; paper industry economics.

Special facilities: Semi-technical plants for chemical pulping, de-inking, papermaking and paper coating.

Publications and services: Some research results are published as reports in the journal "Przegląd Papierniczy" (The Paper Trade Review). The Scientific Information Centre publishes the monthly review "Informacja Ekspresowa CELULOZA I PAPIER", and a quarterly bulletin, "Biuletyn Informacyjny CELULOZA I PAPIER". These are distributed to pulp and paper mills and research institutions. The Library contains about 15,000 scientific and technical volumes and subscribes to 60 international technical journals. The Institute has its own scientific and technical information service. Copying facilities are available.

Cooperation: The Institute cooperates with papermaking research institutions in Eastern Europe. It is willing and in a position to develop research links with institutions in developing countries. The Institute is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: Russian and English.

POLAND

INSTYTUT PAPIERNICTWA I MASZYN PAPIERNICZYCH
POLITECHNIKA ŁÓDZKA
(Institute of Papermaking and Paper Machines,
Technical University of Łódź)
ul. Wólczańska 219
90-924 Łódź

Tel. (010-48-42) 36-88-22
Telex: 886136 polit pl

Status: A University institute established in 1970 for teaching and research in pulp and paper technology and paper machine construction, by fusion of the Chair of Paper Machines (established in 1947) and the Chair of Pulp and Paper Technology (est. in 1952).

Staff: 38 research officers (20 Ph.Ds)
27 technicians
7 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Raw materials for the pulp and paper industry, pulp and paper manufacturing processes, paper conversion, and construction of paper-making, paper-converting, printing and fibre and particleboard-making machines.

Special facilities: A pilot plant.

Publications and services: Research results are published in "Przeglad Papierniczy" and in other journals. There is a special library with reports.

Cooperation: Research links with regard to training, exchange of staff, exchange of information and realization of joint projects. The Institute is not a member of IUFRO.

Official working language: Polish
Official working language for international correspondence: English.

POLAND

INSTYTUT TECHNOLOGII DREWNA
(Wood Technology Institute)
ul. Winiarska 1
60-654 Poznań

Tel. 22-40-81
Telex: 0413505 ITEDE

Status: A public research institute of the Ministry of Forestry and Forest Industries, founded in 1952.

Staff: 176 research and development officers (56 Ph.Ds)
57 technicians
33 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Structure, physical and mechanical properties of wood and wood-based materials; chemistry and chemical conversion of wood; preservation and hydrothermal wood treatment; technology of wood products and wood-based materials; glues and gluing of wood; application of wood and wood-based products in building and other industries; economics of woodworking industries.
Twenty percent of the research programme is devoted to fuelwood and energy studies, including economic aspects, yield, harvesting and properties, industrial research technology, comparison with other fuels, wood-based derivatives, and environmental impact.
Training, extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: A xylarium with 1,450 specimens.

Publications and services: Research results are published in annual reports and in the Institute's serial publication "Prace Instytutu Technologii Drewna" (Work of the Wood Technology Institute)(four issues per year), and are disseminated through research conferences and seminars. The library has 50,000 scientific and technical volumes; 50 subscriptions to international technical journals. Microfiche readers are available. The Institute has its own scientific, technical, economic and patent information service.

Cooperation: The Institute exchanges information with other national research agencies. It has assisted the Forest Products Research Institute, Kumasi, Ghana, in institutional organization and in research on wood structure and identification. It is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: English and Russian.

POLAND

WYDZIAŁ TECHNOLOGII DREWNA
AKADEMIA ROLNICZA W POZNANIU
(Faculty of Wood Technology,
Agricultural University of Poznan)
ul. Wojska Polskiego 28
60-637 Poznań

Tel. 123|22-45-81
Telex: 0415359 Arpl

Status: A university teaching and research faculty of the Agricultural University, founded in 1951.

Staff: 87 research officers (69 Ph.Ds)
58 technicians
8 other (administrative)

Field stations: 2

Principal fields of activity:

Structure, physical and mechanical properties of wood and wood-based materials, chemistry and chemical conversion of wood, wood preservation and hydrothermal treatment of wood, technology of wood products and wood-based materials, glues and gluing of wood, use of wood and wood-based products in furniture industries and buildings, economics of wood-working industries.

Special facilities: -

Publications and services: Research results are published in the proceedings of research conferences, in international technical journals and in the scientific journals "Roczniki Akademii Rolniczej w Poznaniu" and "Folia Forestalia Polonica", Series B. The Faculty has access to the central library of the University.

Cooperation: Scientific and research cooperation with four European countries under multi-year agreements. The Faculty is not a member of IUFRO.

Official working language: Polish
Official working languages for international correspondence: English, German and Russian.

POLAND

INSTYTYT BADAWCZY LEŚNICTWA
(Forest Research Institute)
ul. Wery Kostrzewy 3
P.O. Box 61
00-973 Warszawa

Tel. 223201
Telex: 812476 pl

Status: A public research institute of the Ministry of Agriculture, Forestry and Food Economy, founded in 1930.

Staff: 244 research and development officers (61 DSc)
105 technicians
44 other (administrative|secretarial)

Field stations: 3

Principal fields of activity:

Economic principles of forest development, forest biology and ecology, forest protection, forest resources and principles of regionalization, improvement of work organization methods, forest and tree diseases, forest protection measures, forest inventory and forest management methods, basic forest site improvement, silviculture and selection of trees, improvement of forest utilization methods, labour protection and forest work safety, and game management; intensification and rationalization of minor forest production.

Special facilities: Training, extension and development.

Publications and services: Research results are published in annual reports and in the Institute's serial publication "Prace Institytutu Badawczego Leśnictwa" (Work of the Forest Research Institute) and are disseminated through research conferences and seminars, many of them in the Institute's own training centre at Sekocin near Warsaw. The Institute has its own scientific, technical, economic and patent information service. There is a library with some 60,000 scientific and technical volumes. It provides scientific information on forestry and exchanges international technical journals.

Cooperation: The Institute exchanges information with other national and foreign research agencies and performs work within the COMECON multilateral cooperation as well as in annual bilateral agreements. It is a member of IUFRO.

Official working language: Polish
Official working language for international correspondence: English.

POLAND

KATEDRA UŻYTKOWANIA LASU I INŻYNIERII LEŚNEJ
(Department of Forest Utilization and Engineering)
Warsaw Agricultural University
ul. Rakowiecka 26|30
02-528 Warszawa

Tel. 49-70-74
Telex: 814790 SGGW pl

Status: A university training and research department founded in 1816.

Staff: 12 research and development officers (6 Ph.Ds)
3 technicians
1 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Properties of raw material, its uses and standardization; logging and timber by-products; technology and management of timber thinning, logging and timber transport; planning and construction of forest roads; ergonomics and safety in forestry.

Twenty-five percent of the research programme is devoted to fuelwood and energy studies, including economic aspects, fire control systems, inventory; harvesting and transport methods, density, calorific value and chemical content; industrial technology of processing fuelwood, improved stove design; charcoal-making; small-scale processors and generators; use of residues; and environmental impact.

Training and development.

The research is conducted mainly in arid and semi-arid lands and in the temperate zone.

Special facilities: A xylarium with 200 specimens.

Publications and services: Research results are published in annual reports, international technical journals and Ph.D and M.Sc. theses, and are disseminated through research seminars. The library has 3,500 scientific and technical volumes; 18 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Department has international links with regard to training, exchange of staff and exchange of information. At present, research and development staff from the following countries are undergoing training in the Department: Panama (1), Uganda (1), Iraq (1) and Cuba (4). The Department is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: Polish
Official working language for international correspondence: English.

POLAND

WYDZIAŁ LEŚNY SZKOŁY GŁOWNEJ GOSPODARSTWA WIEJSKIEGO
AKADEMII ROLNICZEJ
(Faculty of Forestry, Warsaw Agricultural University)
ul. Rakowiecka 26|30 Tel. 49.22.51
02-528 Warszawa Telex: 814790 sggw pl

Status: Warsaw Agricultural University is the oldest agricultural academic institution in Poland. The Faculty of Forestry was established in its present form in 1918. It consists of departments and chairs and deals with education and research.

Staff: Consists of teaching staff (professors, associate professors, adjuncts, assistants, lecturers) whose duty is to teach students and conduct scientific research, and technical staff (engineers, technicians, laboratory assistants, economists, administrators).

Field stations: 2

Principal fields of activity:

Silviculture, environmental conditions in forests, forest productivity, aerial photo-interpretation, remote sensing, economic and financial systems in forest management, harvesting, wood transport and timber yards, construction of forest roads, biological and ecological bases of forest protection methods, population research, forest insects, fungi causing tree diseases, zoology, and wildlife management.

Special facilities: A museum, an alpinarium, a main data-processing unit, a meteorological station, insectaria, a vegetation centre, a herbarium, a xylarium, and forest nurseries.

Publications and services: The University has its own publishing section. Its activities are mainly editing and publishing scientific, educational and other reports. The scientific publications include: scientific journals,
tions of university workers, bibliographical and historical publications, methodology and monographs. The series is divided into different sections, "Forestry and Wood Technology" is one of them. Each department has its own forestry library. Microfiche readers are available.

Cooperation: At present, the University has many contracts with socialist and capitalist countries and collaborates with national forestry faculties and research centres. It is not a member of IUFRO.

Official working language: Polish
Official working language for international correspondence: English.

POLAND

WYDZIAŁ TECHNOLGII DREWNA
SZKOŁA GŁOWNA GOSPODARSTWA WIEJSKIEGO-AKADEMIA ROLNICKA
(Faculty of Wood Technology, Agricultural University of Warsaw)
Rakowiecka 26|30 Tel. 49.22.51
02-528 Warszawa Telex: 814790 SGGW AR PL

Status: A teaching and research institution of the Agricultural University of Warsaw.

Staff: 75 faculty and research personnel (of which 60 Ph.Ds or equivalent and 15 M.Sc. degree holders)

Field stations: 1

Principal fields of activity:

Teaching, training and research in sawmilling and primary wood conversion, wood-based panel materials, secondary wood products, woodworking tools and machinery, planning and economics of wood industries, wood drying, and hydrothermal treatment of wood.

Special facilities: Laboratories for general physics and thermal techniques; workshops for wood and metal, measuring techniques, strength testing, and chipboard and fibreboard technology; a wood collection of 1,470 species; electronic and computer equipment; a tool repairshop and wood-cutting equipment.

Publications and services: Annals of the Faculty of Wood Technology, Agricultural University of Warsaw. "Forestry and Wood Technology". The Faculty provides research, development and consultancy services for wood-converting industries. The Faculty uses the central library of the University. Each department has its own small collection of books.

Cooperation: Cooperative agreements exist with industrial plants and scientific institutions in Poland (e.g. the Wood Technology Institute in Poznań) and abroad (e.g. the Technical University of Dresden, FRG, the Technical University in Minsk, USSR, etc.). The Faculty is not a member of IUFRO.

Official working language: Polish
Official working language for international correspondence: English.

PORTUGAL

ENTPA - DEPARTAMENTO TECNOLOGIA PRODUTOS FLORESTAIS
INSTITUTO NACIONAL DE INVESTIGAÇÃO AGRÁRIA
(ENTPA - Department of Forest Products Technology,
National Agricultural Research Institute)
Cândido dos Reis, 56
2460 Alcobaca

Tel. 062|42315

Status: A public research institution of the National Agricultural Research Institute, founded in 1950.

Staff: 6 research and development officers
7 technicians
3 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Biological, structural, physical, mechanical and technological properties and utilisation of wood and cork; chemical technology of gum production and conversion; chemistry of cork and pine residues (bark, needles, etc.) and their better utilisation.

Development.

The research is conducted mainly in the temperate zone.

Special facilities: The Department maintains a xylarium.

Publications and services: Research results are published in the proceedings of research conferences and seminars and in the publication "Naval Stores Review". The library has over 500 scientific and technical volumes; 7 subscriptions to international technical journals.

Cooperation: The Department is willing and in a position to develop research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: Portuguese
Official working languages for international correspondence: English, French and Portuguese.

PORTUGAL

CENTRO DE ESTUDOS FLORESTAIS
(Forest Research Centre)
Tapada da Ajuda
1300 Lisboa

Tel. 634662;634667

Status: A research centre of the Instituto Nacional de Investigação Científica (National Institute for Scientific Research) located at the Technical University.

Staff: 19 university graduates (12 with Doctor's Degree)
20 technicians

Field stations: 1, and 3 auxiliary stations.

Principal fields of activity:

Provenance testing (Eucalyptus globulus).
Forest bio-climatology and ecophysiology.
Nutrient cycling.
Wood technology (pulp properties and anatomy).
Biomass, forestry techniques, production tables.

Special facilities: Wood technology laboratories (wood anatomy, wood chemistry, wood pulp), as well as an ecophysiology laboratory and a computing centre.

Publications and services: Research results are published in annual reports and in national and international scientific reviews. The Centre has a small library of its own, but uses also the extensive library facilities of the University.

Cooperation: The Centre cooperates with international institutions with regard to staff training and exchange of scientific information. It is willing and in a position to strengthen research links with other institutions in these fields and to participate in staff training for tropical countries. The Centre is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

PORTUGAL

CENTRO DE ESTUDOS DE TECNOLOGIA FLORESTAL
(Research Centre for Forest Technology Studies)
Tapada da Ajuda
1300 Lisboa

Tel. 634662
Telex: 44700 - ISATEL

Status: A research centre of the Agrarian Research Department of the Tropical Research Institute.

Staff: 2 university graduates (1 with doctorate)
2 technicians

Field stations: None

Principal fields of activity:

Systematic wood anatomy; wood pulp technology.

Special facilities: A wood anatomy laboratory, wood pulp and chemistry facilities, and a tropical wood collection.

Publications and services: Research results are published in annual reports and in scientific publications. The Centre has access to the library facilities of the Tropical Research Institute.

Cooperation: The Centre exchanges scientific information with international institutions. It has trained a wood anatomist of the University of Mozambique and collaborates with the Amazonian Research Institute in a study of Miristicacea. The Centre is willing to strengthen staff training and research activities with tropical countries. It is not a member of IUFRO.

Official working language: Portugese.
Official working language for international correspondence: English.

PORTUGAL

INSTITUTO DOS PRODUTOS FLORESTAIS
(Forest Products Institute)
Rua do Centro Cultura 37
1700 Lisboa

Tel. 892485
Cables:

Status: A public institution founded in 1940 under the Ministry of Commerce.

Staff: 3 development officers (3 Ph.Ds)
3 technicians
2 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Test certificates on cork products and naval stores products, standardization (lists and characteristics) and quality marks.

Special facilities: (information not available)

Publications and services: Research and testing results are published in the Institute's Cork Review and Naval Stores Review. The library has 200 scientific and technical volumes; 2 subscriptions to international and technical journals.

Cooperation: (information not available) The Institute is not a member of IUFRO.

Official working language: Portuguese
Official working languages for international correspondence: English and French.

SPAIN

INSTITUTO NACIONAL DE INVESTIGACIONES AGRARIAS
MINISTERIO DE AGRICULTURA
José Abascal 56
Madrid-20, España

Tel. 4.42.31.99
Telex: 48989

Situación: Organismo público de carácter autónomo, dependiente del Ministerio de Agricultura.

Personal: de investigación: 47 (31 con doctorado o diploma equivalente)
técnico: 20
otro (administrativo|secretarias): 16

Estaciones de campo: 7

Principales campos de actividad:

Investigación sobre la producción forestal, zonas húmedas, populicultura, celulosas e industrias de extracción; silvopascicultura; mejora, viveros y repoblación forestal; ecología; madera y corcho; evaluación del potencial de producción de leña; silvicultura de especies y comunidades vegetales para leña.

3% del programa de investigación se dedica a la dendroenergía.

Las actividades de investigación se llevan a cabo principalmente en tierras áridas y semiáridas y en zonas templadas y montañosas.

Instalaciones especiales: Un herbario con 3.500 muestras, y una xiloteca con 7.000 muestras.

Publicaciones y servicios: Los resultados de la investigación se difunden mediante informes anuales (anales 10-12 trabajos anuales; trabajos monográficos 2-4|año), comunicaciones técnicas (8-10|año), cuadernos técnicos (2-4|año), hojas técnicas (2-4|año), tésis cientificas (1-3|año). Se difunden también por medio de conferencias, seminarios y demostraciones de campo. Hay una biblioteca con 3.500 volúmenes y lectores de microfichas; 53 suscripciones a revistas técnicas internacionales.

Vínculos de colaboración: El Instituto no realiza actividades de investigación en países en desarrollo, pero está dispuesto a establecer vínculos con instituciones en esos países. Es miembro de IUFRO.

Idioma oficial de trabajo: español.

SWEDEN

SKOGSVETENSKAPLIGA FAKULTETEN *
SVERIGES LANTBRUKSUNIVERSITET
(Faculty of Forestry,
The Swedish University of Agricultural Sciences)
S-770 73 Garpenberg Tel. 0225/221.00

Status: A teaching and research faculty of the Swedish University of Agricultural Sciences. The institution was founded in 1827 as a School of Forestry, became a College of Forestry in 1915 and a Faculty of the University in 1977.

Staff: 77 research officers (16 Ph.Ds)
46 technicians
22 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Forest yield research.
Operational efficieny.

Special facilities: (information not available)

Publications and services: "Studia forestalia Suecia" (in English, irregular issues); "Skogsfakta" (irr., ca. 8 issues per year). Quick reference services, library loans, document copying, on-line searching. LUKAS Data-base, acquisition lists.

Cooperation: -
The Faculty is a member of IUFRO.

Official working language: Swedish
Official working language for international correspondence: English.

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* The Faculty of Forestry consists of three main parts, located in Garpenberg, Uppsala and Umeå.

SWEDEN

FORSKNINGSSTIFTELSEN SKOGSARBETEN
(Forest Operations Institute)
Kistagången 19
Box 1184
S-163 13 Spånga
Tel. 08-7507220

Status: A private research institute founded in 1964 after amalgamation with three regional institutes, the first of which dates from 1938.

Staff: 45 research officers (1 Ph.D)
3 technicians
13 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Applied research concerning stand establishment and treatment; logging; and secondary transportation.

Training, extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, and in the following Swedish and English publications: "Nytt" (6 issues per year); "Resultat" (25 issues per year); Redogörelse" (5-10 issues per year); "Meddelande" (1 issue per year); "Handledning" (3-5 issues per year); "News" (3 issues per year); "Results" (5 issues per year); and a Manual (once a year). Scientific articles are also published in international technical journals. The Institute also produces films and consultancy reports. The library possesses 600 scientific and technical volumes; 23 subscriptions to international technical journals.

Cooperation: The Institute has cooperated in research regarding logging methods with institutions in developing countries. It is a member of IUFRO.

Official working language: Swedish
Official working language for international correspondence: English.

SWEDEN

SKOGSVETENSKAPLIGA FAKULTETEN *
SVERIGES LANTBRUKSUNIVERSITET
(Faculty of Forestry,
The Swedish University of Agricultural Sciences)
S-901 83 Umeå
Tel. 090/16.58.00

Status: A teaching and research faculty of the Swedish University of Agricultural Sciences. The Institution was founded in 1827 as a School of Forestry, became a College of Forestry in 1915 and a Faculty of the University in 1977.

Staff: 128 research officers (40 Ph.Ds)
75 technicians
25 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Silviculture, biometry and forest management, forest survey, forest economics, forest genetics and plant physiology, forest site research.

Special facilities: (information not available)

Publications and services: "Studia forestalia Suecia" (in English, irregular issues); "Skogsfakta" (irregular, ca. 8 issues per year); reports from the Departments (irregular issues). Quick reference services, library loans, document copying, on-line research. The library contains 110,000 volumes and 1,400 periodicals. LUKAS Data-base, acquisition lists.

Cooperation: -
The Faculty is a member of IUFRO.

Official working language: Swedish
Official working language for international correspondence: English.

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* The Faculty of Forestry consists of three main parts, located in Umeå, Uppsala and Garpenberg.

SWEDEN

INSTITUTET FÖR SKOGSFÖRBÄTTRING
(Institute for Forest Improvement)
P.O. Box 7007
S-750 07 Uppsala

Tel. 018-300716
Cables:

Status: A private research institute founded in 1967.

Staff: 16 research officers (2 Ph.Ds)
18 technicians
3 other (administrative|secretarial)

Field stations: 3

Principal fields of activity:

Forest tree breeding and forest fertilization.
Development.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research seminars, and in short information series such as "Skogsträdsförädling" (4-8 issues a year), "Gödsling" (2-4 issues a year), and in "Årsbok, Föreningen Skogsträdsförädling" (Year Book).

Cooperation: (information not available) The Institute is a member of IUFRO.

Official working language: Swedish
Official working language for international correspondence: English.

SWEDEN

SKOGSVETENSKAPLIGA FAKULTETEN *
SVERIGES LANTBRUKSUNIVERSITET
(Faculty of Forestry,
The Swedish University of Agricultural Sciences)
S-901 83 Uppsala Tel. 090/17.10.00

Status: A teaching and research faculty of the Swedish University of Agricultural Sciences. The institution was founded in 1827 as a School of Forestry, became a College of Forestry in 1915 and a Faculty of the University in 1977.

Staff: 160 research officers (81 Ph.Ds)
91 technicians
30 other (administrative/secretarial)

Field stations: 6

Principal fields of activity:

Forest products, wildlife ecology, forest genetics, forest soils, ecology and environmental research, plant and forest protection, and plant husbandry.

Special facilities: (information not available)

Publications and services: "Studia forestalia Suecia" (in English, irregular issues); "Skogsfakta" (irregular, about 8 per year); reports from the Departments (issued irregularly). On-line searching. LUKAS Data-base, acquisition lists.

Cooperation: -
The Faculty is a member of IUFRO.

Official working language: Swedish
Official working language for international correspondence: English.

* The Faculty of Forestry consists of three main parts, located in Uppsala, Garpenberg and Umeå.

SWITZERLAND

SCHWEIZERISCHE INTERESSENGEMEINSCHAFT INDUSTRIEHOLZ
(Communauté Suisse pour le Bois d'Industrie)
Zürcherstrasse 111
CH-8903 Birmensdorf, Suisse
Tél. 01/739 21 11

Statut: Institution privée indépendante, créée en 1968.

Effectifs: 2 chercheurs
1 autre (administratif/secrétaire)

Stations de recherche sur le terrain: nil

Principaux domaines d'activité:

Etudes sur l'exploitation, la manipulation, le transport, le stockage et la transformation du bois d'industrie (cellulose, bois de pelage, panneaux et laine de bois).
Formation, vulgarisation et administration.

Principales zones écologiques des activités de recherche: zones tempérées et zones montagneuses.

Installations spéciales: nil

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels, rapports d'étude, instructions et articles dans les revues spécialisées, et sont diffusés par des cours et démonstrations.

Coopération: Les contacts internationaux se limitent à des échanges d'informations avec d'autres institutions. L'institution n'est pas membre de l'IUFRO.

Langues officielles de travail: allemand et français
Langues officielles de travail pour la correspondance internationale: allemand, français, anglais.

SWITZERLAND

EIDG. INSTITUT FÜR SCHNEE- UND LAWINENFORSCHUNG WEISSFLUHJOCH-DAVOS
SEKTION III "Schneedecke und Vegetation"
(Institut Fédéral pour la Recherche de la Neige et des Avalanches,
Weissfluhjoch-Davos, Section III "Couverture de Neige et Végétation")
Zweigburo Fluelastrasse 11
CH-7260 Davos-Dorf, Suisse
Tél. 083|5.13.47
Télex: 74 151 SLFD CH

Statut: Institution publique sous la tutelle de l'Office fédéral des forêts et de la protection du paysage (Laupenstrasse 20, B.P. 1987, CH-3001 Bern, tél. 031| 61.80.74), créée en 1942.

Effectifs: 4 chercheurs (1 avec doctorat)
4 techniciens
1 autre (administratif|secrétaire)

Stations de recherche sur le terrain: 2 (Stillberg, Pusserein) - reboisement et ouvrages temporaires; reboisement et glissement de neige.

Principaux domaines d'activité:

Actions réciproques entre la couverture de neige|avalanches et plants|peuplements forestiers.
Avalanches en forêt.
Reboisement des terrains menacés d'avalanches, de glissements de neige sur le sol - mesures de protection.
Soins à donner aux forêts de protection contre les avalanches - mesures de protection.
Formation et administration.

Principales zones écologiques des activités de recherche: zones montagneuses.

Installations spéciales: nil

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et les communications (Mitteilungen des Eidg. Instituts für Schnee- und Lawinenforschung, Weissfluhjoch-Davos), et sont diffusés à l'occasion des séminaires sur la recherche. L'Institut a une bibliothèque avec 1.500 volumes; 20 abonnements à des revues techniques internationales.

Coopération: Les contacts internationaux sont limités à des échanges de personnel et d'informations avec d'autres institutions. L'Institut est membre de l'IUFRO.

Langues officielles de travail: allemand et français
Langues officielles de travail pour la correspondance internationale: anglais, français et allemand.

SWITZERLAND

INSTITUT FÜR WALD-UND HOLZFORSCHUNG
EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE
(Institut pour la recherche sur la forêt et le bois,
Ecole polytechnique fédérale)
ETH-Zentrum
CH-8092 Zürich
Tél. 01|256 31 88

Statut: Institut de l'Ecole polytechnique fédérale de Zurich (pour la recherche et l'enseignement); fondé en 1855, nouvelle organisation dès 1979; l'Institut constitue l'infrastructure technique, administrative et de recherche de la section forestière de l'EPFZ.

Effectifs: 7 professeurs (titulaires de chaires)
env. 50 collaborateurs de formation universitaire
env. 60 collaborateurs techniques et administratifs (y compris forêt d'enseignement)

Stations de recherche sur le terrain: forêt d'enseignement de L'EPFZ.

Principaux domaines d'activité:

L'Institut est divisé en 7 chaires: dendrologie, sylviculture, aménagement des forêts, économie et politique forestières, génie forestier, technologie du bois, physique des sols.

Installations spéciales: une forêt d'enseignement et de recherche.

Publications et services: L'Institut met à disposition la rédaction du "Journal forestier suisse" et de ses suppléments. Les chaires publient des collections irrégulières de publications spéciales. La bibliothèque forestière contient environ 9.000 volumes scientifiques|techniques; env. 730 abonnements à des revues.

Coopération: L'Institut collabore avec d'autres instituts de l'Ecole polytechnique fédérale de Zürich, l'Institut fédéral de recherches forestières à Birmensdorf, l'Institut fédéral pour l'étude de la neige et des avalanches à Weissfluhjoch-Davos, et l'Office fédéral des forêts et de la protection du paysage à Berne. L'Institut est membre de l'IUFRO.

Langues officielles de travail: allemand et français
Langue officielle de travail pour la correspondance internationale: français.

TURKEY

ORMANCILIK ARAŞTIRMA ENSTİTÜSÜ
(Forest Research Institute)
Bahçelievler
P.K. 24
TR-131734 Ankara

Tel. 131 734
Cables:

Status: A public research institution under the General Directorate of Forests. The Institute began as a Forest Research Station in 1952 in Bolu Province but was upgraded to a Forest Research Institute and moved to Ankara in 1955.

Staff: 85 research and development officers (19 Ph.Ds)
11 technicians
2 other (administrative|secretarial)

Field stations: 8

Principal fields of activity:

Silviculture, forest tree seeds, afforestation and reforestation, soils, forest protection, forest diseases, forest fires, watershed management, forest management, forest statistics and mathematics, forest products utilization, and forest public relations.
Fuelwood and energy studies include assessment of fuelwood potential; silvicultural methods; density, calorific value and chemical content of fuelwood; wood preservation; and use of residues.
Training and extension.

The research is conducted mainly in semi-arid lands and mountainous zones.

Special facilities: A herbarium with 1,500 specimens, and a xylarium with 30 specimens. The laboratory equipment includes bomb calorimetry.

Publications and services: Research results are published in the proceedings of research conferences and seminars, in technical bulletins (irregular issues), journals (2 per year), miscellaneous publications and technical reports (issued irregularly), and research bulletins (monthly issues).
The library has 6,500 volumes and subscribes to 10 international journals and receives 120 journals through publication exchange. Microfiche readers are available.

Cooperation: The Institute has cooperative links with all national institutions concerned with research related to soil and water conservation, grazing, rural sociology, rural development and plant breeding and protection. It exchanges information with forestry research institutions in Europe, U.S.A., Canada, Australia and New Zealand. The Institute is a member of IUFRO.

Official working language: Turkish
Official working language for international correspondence: English.

TURKEY

KAVAK VE HIZLI GELİŞEN ORMAN AĞAÇLARI ARAŞTIRMA ENSTİTÜSÜ
(Poplar and Fast-Growing Forest Tree Research Institute)
P.K. 93
TR-41001 Izmit
Tel. 90 (211)/118 78; 10 036

Status: A public research institute founded in 1962, under the jurisdiction of the Directorate-General of Forests, Ministry of Agriculture, Forestry and Rural Affairs.

Staff: 25 research officers (3 Ph.Ds)
19 technicians
30 other (administrative|secretarial|labour)

Field stations: 6

Principal fields of activity:

Research activities in the establishment and maintenance of plantations with poplar, willow, eucalypt and other fast-growing forest-tree species, particularly in the following fields: Tree Improvement, Silviculture, Forest-Tree Protection, Soil and Ecology, Yield and Economics, Biometrics and Computation.

Research is conducted on a country-wide basis.

Special facilities: A herbarium, a workshop and a forest range for research.

Publications and services: Research results are published in the Annual Bulletins of the Institute. Practical information based on research results are published in the Institute's Journal (issued twice a year). Apart from these regular publications, several books, reports papers and pamphlets are published from time to time. The Institute has a library with 4,400 scientific and technical books and periodicals.

Cooperation: International cooperation comprises exchange of scientific information and exchange of publications and research material. The Institute is a member of IUFRO.

Official working language: Turkish
Official working language for international correspondence: English.

UNITED KINGDOM

MACAULAY INSTITUTE FOR SOIL RESEARCH
Craigiebuckler
Aberdeen AB9 2QJ

Tel. (0224) 318611
Telex: 73458

Status: A public research institute founded in 1930, under the jurisdiction of the Department of Agriculture and Fisheries for Scotland.

Staff: 110 research officers (100 Ph.Ds)
110 technicians
20 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Maintenance and improvement of soil fertility, including soil survey and research into the nutritional requirements of forest trees and the cycling of nutrients within forest ecosystems.

Interactions between forests and the environment, particularly the effects of: (i) forest management operations, and (ii) atmospheric and other pollutants on soil fertility and water quality.

Fuelwood and energy studies include: (i) research into the nutritional requirements of fuelwood species, and (ii) peat survey and evaluation using remote sensing and photogrammetric techniques in conjunction with ground survey operations.

Training.

The research is conducted mainly in the temperate zone.

Special facilities: (a) A large collection of soil (and related) maps covering many countries of the world. At least 300 sheets and 100 atlases or atlas type soil publications; (b) remote sensing, image processing and photogrammetric facilities available for resource mapping, terrain analysis and crop monitoring operations.

Publications and services: Research results are published in annual reports and in the proceedings of research conferences and seminars. Scientific papers are also published in international journals. The library has 8,450 scientific and technical books; 250 subscriptions to international technical journals. Microfiche and microfilm readers are available, together with facilities for on-line information retrieval.

Cooperation: The Institute has international links with regard to training, exchange of staff and exchange of information. At present, research staff from the U.S.A., Canada, Germany and Spain are working or receiving research training at the Institute. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

DEPARTMENT OF FORESTRY
UNIVERSITY OF ABERDEEN
St. Machar Drive
Old Aberdeen AB9 2UU

Tel. (0024) 40241
Telex: 75458 UNIABN-G

Status: A university teaching and research department founded in 1920.

Staff: 6 research officers (3 Ph.Ds)
1 technician
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest genetics, tissue culture, forest pathology, forest entomology, forest economics, silviculture, wood science, and forest energy.
Ten percent of the research programme is devoted to fuelwood and energy studies, including socio-economic aspects, silviculture, inventory, growth and yield, harvesting and transport methods, density and calorific value, processing and conversion of fuelwood and use of residues, comparisons with other fuels, and the effect of fuelwood production on the environment.
Training, extension and development.

The resarch is conducted mainly in the dry tropics, humid tropics and in the temperate zone.

Publications and services: Research results are published in annual reports, in international journals and in technical reports, and are disseminated through research conferences and seminars. The Department publishes Annual Reports of Economic Surveys of Private Forestry in Scotland. The main university library is available to the Department. It contains a specialized collection of 4,000 scientific and technical books; 25 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: International links include training, exchange of information, and casual consultancies. International research cooperation is mainly through postgraduate projects undertaken by overseas students. At present, students from 4 developing countries are being trained in the Department in various research topics. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

DEPARTMENT OF FORESTRY AND WOOD SCIENCE
UNIVERSITY COLLEGE OF NORTH WALES
Bangor, Gwynedd LL57 2UW

Tel. (0248) 351151, Ext. 256
Telex: 61100 UCNW

Status: A university teaching and research department founded in 1904.

Staff: 13 research staff (11 Ph.Ds)
8 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

All aspects of production forestry, agroforestry, and wood as an industrial raw material.
Five percent of the research programme is devoted to fuelwood and energy research, including socio-economic aspects, silviculture, tree breeding and seed research, growth and yield studies, harvesting and transport methods, density, calorific value and chemical content of wood, industrial processing technology and comparison with alternative fuels.
Training and development.

The research is conducted mainly in the sub-tropics, humid tropics and in the temperate zone.

Special facilities: A herbarium and a xylarium with 6,000 wood specimens, as well as a nursery and an arboretum.

Publications and services: Research results are published in annual reports, in international journals and in Departmental special reports as appropriate. Current information is disseminated through conferences and seminars. In the main University Library there is a collection of most textbooks of merit on forestry, in addition to 40,000 scientific and technical books of relevance. The collection of international journals includes 143 titles of forestry relevance, most of which are complete from the initial volume. Microfilm and microfiche readers are available.

Cooperation: The Department's international links involve training, research, exchange of staff, and exchange of information. At present, 52 students from 20 developing countries are being trained in the Department in various aspects of forestry, wood science, agroforestry and environmental studies. The Department is willing and in a position to strengthen research links with institutions in developing countries. Recently, a project on Agroforestry, funded by the Overseas Development Administration, has been established in Northern Nigeria and funds have been obtained for the extension of agroforestry research from the Sokoine Agricultural University for small farming systems.

Official working language: English.

UNITED KINGDOM

DEPARTMENT OF AGRICULTURE FOR NORTHERN IRELAND
Dundonald House
Upper Newtownards Road
Belfast BT4 3SB, Northern Ireland

Tel. (0232) 650111
Cables:

Status: A public research institution founded in 1961.

Staff: 4 research officers (2 Ph.Ds)
6 technicians
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Nutrition, establishment, reproduction, and mensuration of sitka spruce (Picea sitchensis).

The research is conducted mainly in the temperate zone.

Special facilities: None

Publications and services: Research results are published in annual reports and forestry journals, and are disseminated through research conferences and seminars. The Department has access to the university library; 10 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: (Information not available) The Department is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

LONG ASHTON RESEARCH STATION
UNIVERSITY OF BRISTOL
Long Ashton
Bristol BS18 9AF

Tel. (0272) 392181
Cables:

Status: A university research station financed by the United Kingdom Agricultural and Food Research Council (AFRC). The Station was founded in 1903 as National Fruit and Cider Institute; in 1912 it became part of the Department of Agriculture and Horticulture of the University of Bristol; and in 1932 it has come under the Agricultural Research Council.

Staff: 1 research officer and 1 development officer.

Field stations: None

Principal fields of activity:

The Station's full research programme covers four major fields: crop protection, plant science, pomology, and food and beverages.
Less than one percent of the Stations' activity involves forestry and fuelwood research. This includes research on willows, particularly silviculture, breeding, growth and yield, but also social aspects; and micro-vegetative propagation of woody ornamentals and their virus testing.
Training of candidates for higher degrees.

The research is conducted mainly in the temperate zone.

Special facilities: The Station maintains the U.K. National Salix collection (518 taxa).

Publications and services: Research results are published in annual reports and in the proceedings of research conferences and seminars. The Station publishes pamphlets and reports at irregular intervals, e.g. for the Royal Show and the EEC Biomass Exhibitions. Scientific papers are also published in international journals. The library contains only 10-20 volumes related to forestry and subscribes to 1 international journal. Microfiche readers are available. The Station has also access to the library of the University of Bristol.

Cooperation: International cooperation includes exchange of information with overseas institutions through the UK Overseas Development Administration, and advisory services. Cooperative research on fuelwood has been carried out with the Horticulture Centre, Loughgall, Co. Armagh, Northern Ireland.

Official working language: English.

UNITED KINGDOM

DARTINGTON INSTITUTE
CENTRAL OFFICE
Shinners Bridge
Dartington, Totnes, South Devon TQ9 6JE

Tel. (0803) 862271
Telex: 863104 (c/o Welgate Travel)

Status: The research arm of Dartington Hall Trust, founded in 1932.

Staff: 5 research officers
1 training officer
2 field project officers
1 technician
1 librarian
3 other (administrative/secretarial/accounts)

Field stations: None

Principal fields of activity:

Agriculture, forestry, land use, natural environment, landscape, economic and social development.
Training: local development projects.

The main proportion of the work is in integration of forestry with farming, and in land-use modelling.

Research consultancy is conducted anywhere. Training and development projects are undertaken in the S.W. region of U.K.

Special facilities: Computerized land-use data base for Devon.

Publications and services: Research results are published as reports, unless client bodies publish these themselves. Papers are given to conferences and seminars. There is a "working" library only.

Cooperation: The Institute cooperates with and exchanges information with other U.K. institutes with relevant programmes, notably the Institute for Terrestrial Ecology, the Centre for Agricultural Strategy, and the Agricultural and Grassland Research Institute. It also exchanges information with other European institutes in Eire, France, Federal Republic of Germany and Italy. The Institute is not a member of IUFRO.

Official working language: English.

UNITED KINGDOM

DEPARTMENT OF FORESTRY AND NATURAL RESOURCES
UNIVERSITY OF EDINBURGH
Darwin Building, King's Buildings
Mayfield Road
Edinburgh EH9 3JU

Tel. 031-667 1081
Telex: 727442 (UNIVED)

Status: A university teaching and research department, founded in 1889 as a traditional forestry school. The Department broadened its field in 1964 when the present name was adopted. The degree of B.Sc. Ecological Science is offered in 4 honours schools: Forestry, Ecology, Resource Management, and Wildlife and Fisheries Management.

Staff: 19 research officers (15 Ph.Ds)
9 technicians
2.5 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest management and economics: farm forestry, silviculture.
Plant physiology: stomatal function, water stress, growth in coniferous trees, and plant growth in response to wind.
Tropical tree physiology and plant growth in arid environments.
Genetics of trees, natural defences to pathogens and insects, and secondary metabolites as chemical defences against herbivory.
Tissue culture of trees. Wildlife ecology. Freshwater fisheres and aquatic ecology.
Five percent of the research programme is devoted to fuelwood or energy activities.
Training and extension.

The research is conducted in semi-arid lands, humid tropics and temperate and mountainous zones.

Publications and services: Research results are published in bulletins, occasional departmental publications, international technical journals, and sometimes in the proceedings of research conferences and seminars. Departmental staff are also active as editors of major international journals. The library has 5,000 scientific and technical volumes; 120 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: Research links include training, exchange of staff, exchange of information, and funding of joint projects. At present, research and development staff from six developing countries are undergoing research training in the Department. Cooperative research in varous fields is undertaken with the following institutions: Department of Botany, Fourah Bay College, University of Sierra Leone, Freetown; Department of Forest Resources Management, University of Ibadan, Nigeria; Department of Forestry, University of Khartoum, Sudan. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

BUCKINGHAMSHIRE COLLEGE OF HIGHER EDUCATION
Queen Alexandra Road
High Wycombe, Bucks. HP14 4ND Tel. 22141

Status: A college of higher education and major college for the study of timber technology in the United Kingdom.

Staff: 12 highly qualified (1 Ph.D, 3 M.Scs), with unique experience in wood science, forestry and the timber trade.

Field stations: 1

Principal fields of activity:

Forestry (worldwide); wood science (all aspects); timber technology (all aspects); research (a very comprehensive programme). Timber studies for overseas students.

Special facilities: 200 acres of parkland. Timber laboratories. A collection of wood-destroying insects and fungi. An extensive and comprehensive wood specimen collection.

Publications and services: Research results are retained by the Library in international technical journals and timber trade press cuttings. Production of videos. Slides and material for trade courses. The library is endowed with an excellent backup in wood science, wood pests, forestry, commercial aspects, preservation, and business studies/management.

Cooperation: The College maintains international links, including education for overseas students. It is not a member of IUFRO.

Official working language: English.

UNITED KINGDOM

TRADA - TIMBER RESEARCH AND DEVELOPMENT ASSOCIATION
Stocking Lane
Hughenden Valley
High Wycombe, Buckinghamshire HP14 4ND
Tel. (0240) 24 3091
Telex: 83292

Status: A private research and development institution founded in 1934 as Timber Development Association. It became also a Research Association in 1961.

Staff: 30 research and development officers (5 Ph.Ds)
45 technicians
40 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

The correct and economic use of timber in the construction and packaging industries.

Five to ten percent of the research programme is devoted to fuelwood and energy, mainly in the industrial technology of processing and conversion, particularly of wood residues.

Training, extension and development.

Consultancy services in all fields of timber construction and wood technology.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, in research reports, newsletters (3 issues per year), Timber Pallet and Packaging Digest (6 issues per year), wood information sheets (approx. 10 per year), timber frame press cuttings (monthly), library bulletins (monthly), and library bibliographies (irregular issues). The Association also produces slide sets, videos, and material for training courses. The library possesses about 40,000 scientific and technical volumes; 200 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Association cooperates in training activities. At present, research and development staff from China and Sri Lanka are undergoing research training. The Association is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

ROYAL BOTANIC GARDENS
Kew, Richmond, Surrey TW9 3AB

Tel. 01/940 1171
Cables: KEWGAR
Telex: 296694 KEWGAR

Status: A pubic research institution founded in 1759. The Herbarium and Library were established in 1853. Governed since 1984 by a Board of Trustees.

Staff: 108 scientific research and support staff (31 Ph.Ds)
8 professional librarians
165 horticulturists
83 other (administrative/secretarial)

Field stations: 1 (Wakehurst Place, Ardingly, West Sussex)

Principal fields of activity:

Taxonomy; economic botany (specialising in plants of the arid and semi-arid tropics); biochemical, cytological, anatomical and seed physiology research; horticulture; plant conservation and distribution; training.

Special facilities: The herbarium contains over 5 million specimens, and the xylarium over 50,000 specimens; 132,000 living plants; economic botany collection with over 75,000 specimens. Kew also maintains a data bank on the economic uses of arid plants, a seed bank (at Wakehurst Place) and anatomical collections.

Publications and services: Research results are published in Annual reports, proceedings of conferences and seminars, Kew Bulletin (quarterly), Kew Bulletin Additional Series (irregular), Kew Magazine (quarterly - formerly Curtis's Botanical Magazine), Hooker's Icones Plantarum (irregular). Indexing services: Index Kewensis (every 5 years), Current Awareness List (monthly) which cumulates into the Kew Board of Taxonomic Literature (annual). The Library has over 120,000 books; 4,000 periodical titles. Large collections of pamphlets, reprints and maps; 250,000 manuscripts and letters. Available only to research workers on written request.

Cooperation: International links involve the exchange and distribution of plant material, training, exchange of staff, exchange of information, and the funding of joint projects. Kew also cooperates with many national institutions in the compilation and publishing of flora. Field studies are carried out on a worldwide basis, and many research and development staff from developing countries are trained at Kew in horticultural and herbarium techniques and in postgraduate research. The institution is willing and in a position to strengthen research links with institutes in developing countries. It is not a member of IUFRO.

Official working language: English.

UNITED KINGDOM

PIRA - PAPER AND BOARD DIVISION
Randalls Road
Leatherhead, Surrey KT22 7RU

Tel. 0372/376161
FAX: 0372 377526
Telex: 929810

Status: Pira is the national technical centre for the paper and board, printing and packaging industries.

Staff: 30 graduate/post-graduate scientists/engineers
15 technicians
10 directoral, management and support services

Field stations: -

Principal fields of activity:

Contract research and consultancy for paper and board makers and users and their associated suppliers of materials, chemicals and equipment. Market surveys conferences and seminars, information services and training for the pulping, paper and board-making and user industries.

Special facilities: Chemical and physical materials analyses. Fibrous materials preparation, sheet forming and testing, product development. NATLAS approved testing laboratories. Field investigation equipments.

Publications and services: Paper Technology and Industry (incorporates "Pira News"); paper and board abstracts; research and consultancy, and reports; conference and seminar proceedings. There is a library with current technical publications, and data-base, SDI and photocopying facilities.

Cooperation: Liaison and, as appropriate, joint studies with all national institutes concerned with woodpulp, fibres, materials and equipment for the manufacture of paper and board and non-woven products. Pira is not a member of IUFRO.

Official working language: English.

UNITED KINGDOM

TIMBER TECHNOLOGY GROUP
DEPARTMENT OF PURE AND APPLIED BIOLOGY
IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY
Prince Consort Road
London SW7 2BB

Tel. 01/589-5111
Telex: 261503

Status: A university research and teaching group, founded in 1908.

Staff: 5 research officers (1 D.Sc., 4 Ph.Ds)
6 research students
4 technicians
1 other (secretarial)

Field stations: 2 (test sites for wood preservative evaluation)

Principal fields of activity:

Fundamental and industrially linked research into wood decay and wood protection. This includes studies of the enzymology and mechanisms of wood decay by micro-organisms; the optimisation of existing multi-salt wood preservatives; fundamental studies on sapstain and post-harvest deterioration and application techniques for their control; the decay and protection of commodities in service, e.g. poles, railway sleepers (ties) and external joinery; long-term performance of organic preservatives, with particular reference to detoxification studies; development of new in-ground-contact wood preservative systems.

Training (including co-operation with the Department of Civil Engineering for timber engineering) of research personnel from U.K. and overseas in wood preservation technology by involving them in current research of direct relevance to their countries' needs.

Special facilities: Wood preservative treatment pilot plants. Fungal cellar. Access to S.E.M., T.E.M. and a wide range of analytical and computing facilities. Field testing sites for wood preservatives.

Publications and services: Research results are published in international journals and disseminated through research conferences and seminars. Copies of Ph.D and M.Sc theses are lodged in the University of London Library and in the Imperial College Library. The main library of the College covers all aspects of science and technology. It has a Specialist Life Science section.

Cooperation: International links include training, exchange of information, collaborative research projects and staff exchanges. Overseas students carry out post-graduate research projects at both M.Sc and Ph.D level. Well established research links are maintained with many institutions across the world, covering most of the forestry zones, and further links are welcomed and encouraged. Many guest workers from many parts of the world have spent time as academic visitors to the group, ranging from a few days to a sabbatical year. Individual membership of IUFRO.

Official working language: English.

UNITED KINGDOM

TROPICAL DEVELOPMENT AND RESEARCH INSTITUTE
56-62 Gray's Inn Road
London WC1X 8LU

Tel. 01-242-5412
Cables:

Status: A public research institute of the Overseas Development Administration, the government department responsible for the administration of the U.K. overseas aid programme. The Institute was founded in 1894.

Staff: Total staff: 420, including 18 economists.
12 research officers (1 Ph.D)] forest products research
5 technicians]

Field stations: None

Principal fields of activity:

Improved utilization of renewable resources of less developed countries. In the forest products field this includes evaluation of fibrous resources for pulp and paper; wood for energy; charcoal production; and gums, resins and extractives.

Fifty percent of the forest products research programme (i.e. 5% of the total research effort) is devoted to fuelwood and energy research, including social aspects, economics of charcoal production, fuelwood properties, conversion technology, charcoal-making, small-scale processors and generators, use of residues, gasification, and comparison of wood with other fuels.

Training, extension and development.

The research is conducted on a worldwide basis.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences, in international technical journals and in the Institute's special reports. The Institute publishes about 20 reports every year, 5 or 6 of which concern forest products. It also publishes rural technology guides at irregular intervals. The library contains about 200,000 scientific and technical volumes; 2,000 subscriptions to international technical journals, of which 50-60 concern forest products. Microfiche readers are available.

Cooperation: Formal international links involve training, exchange of staff, and exchange of information. Field work is frequently carried out in developing countries, often in collaboration with local institutes. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

OXFORD FORESTRY INSTITUTE
South Parks Road
Oxford OX1 3RB

Tel. (0865) 511431
Telex: 83147 VIA OR G attn. FOROX

Status: Internationally oriented research, education, training and information institute within the Plant Sciences Department of Oxford University.

Staff: Director and 6 lecturers
40 research officers (16 Ph.Ds)
16 technical staff
1 librarian and 6 library staff
1 administrator + 9 administrative and secretarial staff

Field stations: 1

Principal fields of activity:

Land-use policy and economics; inventory, computing, forest statistics, silviculture, genetics and tree breeding, wood anatomy/utilization.

Social/agroforestry, biomass/energy forestry, entomology/pathology, taxonomy, ecology/soil physiology.

Training and extension.

Special facilities: Herbarium and wood collection. Laboratory equipment available for X-ray densitometry, image analysis, electron microscopy, GCMS, NMR.

Publications and services: Annual report; OFI occasional papers; tropical forestry papers; miscellaneous publications. An information service is provided in conjunction with the Commowealth Forestry Bureau. Corporate advisory and consultancy service to national and international agencies and companies.
The Institute maintains a library with 120,000 volumes; c. 2000 current serials. Host library for Forestry Abstracts and Forest Products Abstracts; document delivery service available for most items abstracted.

Cooperation: Special links with Commonwealth countries and general research cooperation with some 60 developing countries. Formal links with universities in Kenya and Nigeria; informal links in India and Malaysia. Research cooperation with FAO, the World Bank, ODA and EEC. The Institute is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

DEPARTMENT OF BIOLOGICAL SCIENCES
PORTSMOUTH POLYTECHNIC
King Henry I Street
Portsmouth PO1 2DY

Tel. (0705) 827681
Cables:

Status: A university teaching and research department which was founded in 1908 as Portsmouth Municipal College, redesignated the Portsmouth College of Technology in 1955, and upgraded to the status of a polytechnic in 1968.

Staff: 2 research officers (1 Ph.D)

Field stations: None

Principal fields of activity:

Industrial research and technology, with particular reference to the biodeterioration of timber and timber products in terrestrial and marine environments.
Ten percent of the research programme is devoted to studies on fuelwood, particularly pests and diseases of fuelwood species.
Training.

The research is conducted mainly in the humid tropics and in temperate zones.

Special facilities: The Department maintains a herbarium and a xylarium.

Publications and services: Research results are published in scientific journals and are disseminated through research conferences and seminars. The library possesses numerous scientific and technical volumes and subscribes to many international technical journals. Microfiche readers are available.

Cooperation: International research links concern training and exchange of staff. Research activities in cooperation with institutions in developing countries consist of studies on the biodeterioration and wood preservation of timbers in contact with the ground and in the sea. Participating institutions include the Forest Research Centre, Sandakan, Malaysia and the National Biological Institute, Bogor, Indonesia. At present, two workers from Indonesia and Brazil are being trained in biodeterioration research in the Department. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

BUILDING RESEARCH ESTABLISHMENT
PRINCESS RISBOROUGH LABORATORY
Princes Risborough, Aylesbury HP17 9PX

Tel. 08444-3101
Telex: 83559

Status: A public research institute founded in 1928 as Forest Products Research Laboratory. In 1927, the FPRL was merged with the Building Research Station and Fire Research Station to form the Building Research Establishment of the Princes Risborough Laboratory. The Laboratory belongs to the Department of the Environment, London.

Staff: 53 research and development officers (9 Ph.Ds)
18 technicians
14 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Studies of British timber; structural design and performance related to timber; wood protection; building components; and chemicals in the environment. Training and development.

The research is conducted mainly in the temperate zone.

Special facilities: A herbarium and a xylarium, as well as a collection of wood-destroying fungi.

Publications and services: Research results are published in annual reports and in scientific and technical papers, and are disseminated through research conferences and seminars. There is a library with microfiche readers.

Cooperation: International research links include training of research and development staff from developing countries. At present, a Papua New Guinean is being trained in wood utilization. The Institute is a member of IUFRO.

Official working language: English.

UNITED KINGDOM

FORESTRY COMMISSION RESEARCH STATION, ALICE HOLT LODGE
Wrecclesham, nr. Farnham, Surrey GU10 4LH

Tel. (0420) 22255
Cables:

Status: A public research station founded in 1948. Research had previously been carried out by staff outstationed at universities.

Staff: 79 research and development officers (25 Ph.Ds)
157 technicians
58 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Applied forestry research and development, covering silviculture, site studies, seed biology, entomology, pathology, wildlife, work study, field survey, and mensuration.

The research is conducted mainly in the temperate zone.

Special facilities: The Station maintains arboreta.

Publications and services: Research results are published in annual reports on forestry research, bulletins, forest records, leaflets, booklets, research and development papers, and occasional papers. The library has 8,000 scientific and technical volumes and 1,000 titles of international technical journals, partly by subscriptions and partly by exchange. Microfiche readers are available.

Cooperation: International research links involve the exchange of staff and exchange of information. The Station is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

YUGOSLAVIA

INSTITUT ZA ŠUMARSTVO I DRVNU INDUSTRIJU
(Institute of Forestry and Wood Industry)
Kneza Višeslava 3
YU-11030 Beograd
Tel. 011|553-355

Status: A public research institute founded in 1946.

Staff: 61 research and development officers (13 Ph.Ds, 6 M.Scs)
27 technicians
35 other (administrative|secretarial)

Field stations: 7

Principal fields of activity:

Fundamental and development research in forestry, game management, timber industry and erosion control.

Special facilities: -

Publications and services: Research results are published in the proceedings of scientific conferences and seminars, in the Institute's publication "Zbornik radova Instituta za šumarstvo i drvnu industriju" (research reports) and in the bulletin "Erozija". There is a library with more than 75,000 titles of various specialized publications. It subscribes to 147 foreign and 86 Yugoslav journals annually. The Institute exchanges its publications with 87 foreign and 64 domestic institutions in the same or in related fields.

Cooperation: International cooperation consists of exchanges of scientific information and visits. The Institute is developing research links with institutions in developing countries. Long-term cooperation exists with USDA and CMEA countries. It is a member of IUFRO.

Official working language: Serbo-Croatian
Official working languages for international correspondence: English, German, Russian and French.

YUGOSLAVIA

INŠTITUT ZA GOZDNO IN LESNO GOSPODARSTVO
(Institute for Forest and Wood Economy)
Večna pot 2
P.O. Box 523-X
YU-61 000 Ljubljana

Tel. 061 268 963
Cables:

Status: A public research institute of the national forestry research organization, founded in 1948.

Staff: 27 research and development officers (4 Ph.Ds)
8 technicians
7 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Research on fuelwood includes assessment of fuelwood potentials, silvicultural methods and the environmental impact of fuelwood production.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of scientific conferences and seminars, and in the Institute's serial publication "Zbornik gozdarstva in lesarstva" (research reports), issued 1-3 times a year. The library possesses 12,000 scientific and technical volumes; 70 subscriptions to international technical journals.

Cooperation: International cooperation consists of exchange of scientific information. The Institute is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Slovene
Official working language for international correspondence: English.

YUGOSLAVIA

VTOZD ZA LESARSTVO, BIOTEHNIŠKA FAKULTETA
UNIVERZA EDVARDA KARDELJA V LJUBLJANI
(Department of Wood Science and Technology,
Biotechnical Faculty, Edvard Kardelj University
of Ljubljana)
Večna pot 2
P.O. Box 486
YU-61 000 Ljubljana Tel. 061/268 963

Status: A Department of the Biotechnical Faculty, Edvard Kardelj University of Ljubljana. The Department was established in 1975.

Staff: 17 research and development officers (7 Ph.Ds)
7 technicians
8 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Education and applied research covering wood science, wood processing, and economics of wood industries.

Special facilities: -

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, and in the Slovenian technical journal "Les" ("Wood"). The library has 6,300 scientific and technical volumes and 115 titles of national and international technical journals, partly by subscription and partly by exchange.

Cooperation: International cooperation with developed and developing countries in the field of education and research. Occasional exchange of staff and regular exchange of information. The Department is a member of IUFRO.

Official working language: Slovene
Official working languages for international correspondence: English and German.

YUGOSLAVIA

POLJOPRIVREDNI FAKULTET
INSTITUT ZA TOPOLARSTVO - NOVI SAD
(Agricultural Faculty, Poplar Research Institute)
A. Cehova 13
P.O. Box 55
YU-21000 Novi Sad
Tel. (021)/21-035

Status: The Poplar Research Institute was founded in 1958.

Staff: 20 research officers (8 Ph.Ds, 6 M.Scs, 6 assistants)
18 technicians
13 others (5 administrative/secretarial, 8 field workers)

Field stations: 1 (an experimental estate of 350 hectares)

Principal fields of activity:

Breeding and selection of poplars and willows, ecology- soil research, nursery and cultivation studies, yield and management of poplars and willows in large-scale commercial plantations, research into diseases and insects and their control, mechanization and organization of work, physical and chemical properties of wood, forest economy.

Special facilities: A soil laboratory; a laboratory for plant breeding and plant protection; field equipment for soil cultivation and plant protection; a wood chip harvester.

Publications and services: Research results are published in annual reports and in the Institute's publication "Works"; most research papers are published in "Topola", a bulletin of the National Poplar Commission, and in other technical and scientific journals. The library has 2,500 volumes and subscribes to 20 international journals; over 20 are obtained through exchanges.

Cooperation: International collaboration in the form of exchange of information, research results and vegetative material of newly developed clones; cooperative research programmes, study tours and exchange of experts. The Institute is not a member of IUFRO.

Official working language: Serbo-Croatian
Official working languages for international correspondence: English and French.

YUGOSLAVIA

ODSJEK ZA MEHANIČKU TEHNOLOGIJU DRVETA
MAŠINSKI FAKULTET
(Department of Mechanical Wood Technology,
Faculty of Mechanical Engineering)
Omladinski šetalište b.b.
YU-71000 Sarajevo
Tel. 071|646555

Status: A university teaching and research department founded in 1959.

Staff: 20 research officers (10 Ph.Ds)
5 technicians

Field stations: -

Principal fields of activity:

The whole field of mechanical technology of wood, including energy studies. Teaching and research.

Special facilities: Laboratories related to activities.

Publications and services: Research results are published in the proceedings of research conferences and seminars, and in the scientific journal "Drvna Industrija". The Department has its own library with 4,000 volumes, but uses also the University Library.

Cooperation: Exchange of research information with national and international research organizations. The Department is not a member of IUFRO.

Official working language: Serbo-Croatian
Official working languages for international correspondence: English and German.

YUGOSLAVIA

ŠIPAD - IRC ŠUMAPROJEKT Institut za istraživaje i razvoj
u sevnoj industriji
(SIPAD - IRC SUMAPROJEKT Institute for Research and Development
in the Wood Industry)
Omladinski šetalište, 10
P.O. Box 361
YU-71001 Sarajevo

Tel. 071|526-677
Telex: 41711

Status: A public research and development institute for the wood industry, founded in 1950.

Staff: 66 research and development officers
60 technicians
40 other (administrative|secretarial)

Field stations: 6

Principal fields of activity:

Scientific research studies in the fields of protection, hydrothermics, surface and machine treatment of wood, production of all kinds of boards, and improvement of wood products.

Special facilities: Experimental laboratory and equipment.

Publications and services: Research results are published in annual reports, in the proceedings of scientific conferences and seminars, and in the Institute's serial publication "PREGLED NAUČNO-TEHNIČKIH RADOVA" (research reports) issued 1-4 times a year. The library has some 5,000 scientific and technical volumes; 55 subscriptions to international and national technical journals.

Cooperation: Exchange of scientific information with international institutions. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Serbo-Croatian
Official working language for international correspondence: English.

YUGOSLAVIA

ŠUMARSKI FAKULTET
(Forestry Faculty)
Zagrebacka 20
P.O. Box 240
YU-71000 Sarajevo

Tel. 071|611-033

Status: A teaching and research institution.

Staff: 65 scientific and development personnel
15 technicians
40 other (administrative|secretarial)

Field stations: 4

Principal fields of activity:

Silviculture, pedology, wood anatomy, entomology, phytopathology, dendrology, forest management and forest logging.

Special facilities: Alpinetum.

Publications and services: Research results are published in "Radovi šumarskog fakulteta" (Nos. 1-6). The library has 44,000 books, 18,000 scientific and technical volumes and 200 international journals.

Cooperation: Exchange of scientific information with international research institutes. The Faculty is a member of IUFRO.

Official working language: Serbo-Croatian
Official working language for international correspondence: English.

YUGOSLAVIA

ŠUMARSKI FAKULTET
UNIVERZITET "Kiril i Metodij" - Skopje
(Faculty of Forestry,
University "Cyril and Method")
Bul. Edvard Kardelj, bb
P.O. Box 235
YU-91000 Skopje
Tel. 091|239-033

Status: A university teaching and research institution founded in 1947.

Staff: 46 research officers (all Ph.Ds.)
12 technicians
33 other (administrative|secretarial)

Field stations: 2

Principal fields of activity:

Biological fundaments of forest productivity, silviculture, genetics and tree improvement, afforestation, forest protection, management, forest technology, transport, hunting, forest utilization and forest opening, wood industries, organization and economy.

The research is conducted mainly in the semi-arid, temperate and mountainous zones.

Special facilities: A dendropark, an arboretum, greenhouses, a hunting ground, a herbarium and other collections and laboratories.

Publications and services: Research results are published in the annual publication "Godišen zbornik na Šumarski fakultet", Skopje. The library possesses some 5,944 scientific volumes and 83 international technical journals.

Cooperation: International research links concern training and the exchange of staff and information. The Faculty is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: Macedonian
Official working language for international correspondence: English.

COUNTRIES WHICH ARE MEMBERS OF THE UNITED NATIONS BUT NOT MEMBERS OF FAO
PAYS MEMBRES DES NATIONS UNIES MAIS NON PAS MEMBRES DE LA FAO
PAISES MIEMBROS DE LAS NACIONES UNIDAS PERO NO MIEMBROS DE LA FAO

GERMAN DEMOCRATIC REPUBLIC

SEKTION FORSTWIRTSCHAFT
DER TECHNISCHEN UNIVERSITÄT DRESDEN
(Forestry Section of the
Technical University Dresden)
Piennerstrasse 8 Tel. 463
DDR-8223 Tharandt Telex: 28040

Status: A university teaching and research department, founded in 1811 by Heinrich Cotta as Tharandt Forestry School. It is now a section of the Technical University of Dresden.

Staff: 120 research and development officers (100 Ph.Ds)
100 technicians
20 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Biological fundaments of forest productivity; silviculture; forest technology and engineering; forest protection; survey, inventory and management; forest economics; utilization of forests; soil as a production factor; and environmental protection.

Seven percent of the research programme is devoted to fuelwood and energy studies, including socio-economic aspects; silviculture of fuelwood species; management; harvesting and transport; density, calorific value and chemical content; industrial technology of processing and conversion of fuelwood and residues into energy; charcoal-making; pyrolysis; gasification; and environmental impact.

Training and development, including participation in Unesco|UNEP courses.

The research is conducted in semi-arid lands, the humid tropics, and temperate and mountainous zones.

Special facilities: A herbarium and entomological collections.

Publications and services: Research results are published in the proceedings of research conferences and seminars, in international technical journals, occasional reports, bibliographies, and in the publication "Wissenschaftliche Zeitschrift der Technischen Universität Dresden". The library has some 100,000 scientific and technical volumes; 500 subscriptions to international technical journals. Microfiche readers are available.

(German Democratic Republic)

(Technical University of Dresden, cont.)

Cooperation: Formal international links include training, exchange of staff, exchange of information, and funding of joint projects. Research activities in agroforestry are carried out in Viet Nam, Sudan, Cuba, Mozambique, and Syria. At present, 42 research and development staff from Latin America, Africa and S.E. Asia are undergoing research training in the Forestry Section. The Section is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: German
Official working languages for international correspondence: English, German, Russian and Spanish.

L A T I N A M E R I C A

A M E R I Q U E L A T I N E

A M E R I C A L A T I N A

ARGENTINA

DEPARTAMENTO DE CIENCIAS AGRARIAS
CATEDRA DE ARBORICULTURA FORESTAL
UNIVERSIDAD NACIONAL DEL SUR
San Andrés s/n
8000 Bahia Blanca, BA

Tel. 3-0024
Telex: 81712 DUJOR

Situación: Institución universitaria, parte integrante del Departamento de Ciencias Agrárias, supervisada por la Universidad Nacional del Sur (Av. Colón 80, 8000 Bahia Blanca, tel. 2-6267, telex 81712 DUJOR).

Personal: de investigación: 2

Estaciones de campo: 1

Principales campos de actividad:

Investigación sobre la flora leñosa autóctona.
Silvicultura de las especies exóticas.
Implantación de especies autóctonas de latitudes menores (Prosopis alba y P. nigra).
Formación profesional.

Instalaciones especiales: Una colección de maderas con 40 muestras, con un encargado a tiempo completo. Los equipos de laboratorio incluyen cromatografía gaseosa, un microscopio electrónico y una bomba calorimétrica.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de conferencias, seminarios y coloquios. Hay una biblioteca (20.000 volúmenes y 1.400 títulos de revistas) con lector de microfichas.

Vínculos de colaboración: Tiene vínculos formales con otras universidades nacionales y los institutos siguientes: Instituto Argentino de Oceanografía (IADO); Instituto Nacional de Tecnología Agropecuaria (INTA); Instituto Forestal Nacional (IFONA); Centro de Recursos Naturales Renovables de la Zona Semiárida; Centro de Información Bioagropecuaria y Forestal. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

ADMINISTRACION DE PARQUES NACIONALES
Santa Fé 690 Tel. 311-8294
Buenos Aires Telegramas:

Situación: Institución pública dentro del Ministerio de Agricultura, fundada en 1934.

Personal: de investigación: 2
técnico: 1
otro (administrativo): 1

Estaciones de campo: 1

Principales campos de actividad:

Conservación del stock genético.
Investigación y promoción del conocimiento de los recursos.
Manejo de los ecosistemas y de las actividades que en ellos se desarrollan.

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes periódicos y de los Anales de Parques Nacionales (publicación anual).

Vínculos de colaboración: Tiene vínculos formales con la Dirección de Bosques, Prov. Neuguén. Nos es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACION DE CELULOSA Y PAPEL (CICELPA)
Leandro N. Além 1067, 5º piso
C.C. 1359
1001 Buenos Aires

Tel. 755-6161, int. 553|559
Telegramas: INTI BAIRES
Telex: 021959 INTIAR

Situación: Centro de investigación del sistema INTI (Instituto Nacional de Tecnología Industrial) dependiente de la Secretaría de Industria y Comercio Exterior, Ministerio de Economía de la Nación. El CICELPA tiene apoyo económico a través de sus promotores: AFCP (Asociación de Fabricantes de Celulosa y Papel), IFONA (Instituto Forestal Nacional) e INTI.

Personal: profesional: 11
técnico: 13
administrativo: 3
de servicios auxiliares: 2

Estaciones de campo: -

Principales campos de actividad:

Materias primas forestales; microscopía de fibras; microbiología; pulpado y blanqueo; fabricación del papel; embalajes de cartón corrugado; impresión; química de la madera y subproductos; contaminación ambiental; estucado; ingeniería de sistemas; e información documentaria (biblioteca).

Instalaciones especiales: Proceso de fabricación de pulpa y papel a escala laboratorio y máquina piloto continua de fabricación de papel (30 cm ancho útil).

Publicaciones y servicios: Asesoramientos técnicos, auditorías, investigaciones, desarrollos, control de calidad, control de equipos. Dispone de una biblioteca especializada en todos los campos señalados, cuyos servicios son: atención al público, localización bibliográfica, fotocopias, préstamos, pedidos al exterior del país, búsquedas bibliográficas (manuales o por computadora) y traducciones. Se trabaja en común acuerdo con la biblioteca central del Instituto.

Vínculos de colaboración: El Centro colabora con OEA (Organización de los Estados Americanos) a través del Proyecto Multinacional de Celulosa y Papel, con WAPPRI (World Association of Pulp and Papermaking Research Institutes), y con el Gobierno español en las áreas de celulosa y papel. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACIONES Y EXPERIENCIAS FORESTALES
Moreno 431 Tel. 30-4930
1091 Buenos Aires Telegramas: CIEF

Situación: Asociación privada sin fines de lucro, creada en 1984 por un grupo de empresas forestales.

Personal: de investigación: 9
en planes coordinados por CIEF: 5
administrativo: 3

Estaciones de campo: 13

Principales campos de actividad:

Mejoramiento genético, silvicultura, ecología, protección, y tecnología de la madera.

Instalaciones especiales: Un laboratorio de pastas y calidad de maderas.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de "Publicación Técnica". Una biblioteca está en formación.

Vínculos de colaboración: Tiene vínculos formales con INTA (Instituto Nacional de Tecnología Agropecuaria), IFONA (Instituto Forestal Nacional), e INTI (Instituto Nacional de Tecnología Industrial). A nivel internacional, con FAO, CSIRO (Australia), Forest Service, USDA, INIF (México), IPEF (Brasil) y AFOCEL (Francia). El Centro es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

FIPLASTO FORESTAL S.A.
DEPARTAMENTO DE INVESTIGACION
Alsina 756
1087 Buenos Aires

Tel. 30-9624
Telex: 18630 FIPLA AR

Situación: Institución privada iniciada en 1974, supervisada por el Instituto Nacional de Tecnología Agropecuaria (INTA), Ministerio de Agricultura y Ganadería (Rivadavia 1439, Buenos Aires, Tel. 37-5095).

Personal: de investigación: 1
técnico: 1

Estaciones de campo: 1

Principales campos de actividad:

Mejoramiento genético.
Ensayos de origen (Eucalyptus spp., Pinus eliottii, P. caribaea).
Silvicultura.
Parcelas permanentes.
Curvas de crecimiento.
Control de malezas.
Protección.
Biología de insectos (plagas).

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de investigación se difunden por medio de conferencias y seminarios.

Vínculos de colaboración: Tiene vínculos formales con INTA (suelos, entomología, microbiología) y con INTI (tecnología de maderas). En el plano internacional, tiene vínculos con FAO, Commonwealth Forestry Institute, Oxford, U.K., y DANIDA (semillas). Es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO FORESTAL NACIONAL
Pueyrredón 2446, 4° piso
1119 Buenos Aires Tel. 803|7024

Situación: Institución pública dependiente de la Secretaría de Agricultura, Ganadería y Pesca, creada en 1948.

Personal: profesional universitario: 62 (investigadores con dedicación completa: 14; con dedicación parcial: 12)
administrativo: 111
de servicios generales: 12
de mantenimiento y producción: 125
profesional universitario en planta temporaria: 30

Estaciones de campo: 19

Principales campos de actividad:

Silvicultura, mejoramiento, protección forestal, manejo de cuencas, suelos, desarrollo rural integrado, fiscalización del aprovechamiento, prevención y lucha contra incendios, inventario y ordenación de bosque nativo, estadísticas y costos, promoción de la forestación, fotointerpretación, producción de plantines y estacas, y cosecha de semillas.

Instalaciones especiales: Laboratorios de: análisis de semillas, suelos, micropropagación, tecnología de la madera y ensayos físico-mecánicos de trabajabilidad (CITEMA). Equipo para recolección y conservación de semillas; xiloteca con especies indígenas y exóticas (3.000 muestras); microxiloteca y herbario dendrológico (6.000 exemplares).

Publicaciones y servicios: Se publican un Anuario de Estadística Forestal y folletos técnicos forestales. Se reálizan servicios de extensión y asesoramiento sobre técnicas silviculturales y de forestación; identificación taxonómica de maderas, especies forestales y agentes patógenos; análisis de semillas. Auspicia seminarios y conferencias. El Instituto distribuye sus publicaciones a 218 instituciones, universidades, ministerios, etc. Tiene una biblioteca especializada en temas forestales (colección de 4.531 volúmenes, 7.535 folletos técnicos); hemeroteca con 451 títulos. La biblioteca intercambia informaciones con 146 instituciones extranjeras.

Vínculos de colaboración: Vínculos locales con universidades, Direcciones de Recursos Naturales y de Bosques, municipios, centros de estudios técnicos (CITEMA, CICELPA, CIEF, IADIZA) y organismos nacionales de ciencia y técnica (INTA, SECYT, CONICET). Convenios internacionales (asistencia técnica y apoyo financiero) con GTZ (Alemania), JICA (Japón), la Universidad de Uppsala e IFS (Suecia), CONAF e INFOR (Chile), IPEF (Brasil), CATIE (Costa Rica) y CIID (Canadá), así como con los gobiernos de Italia, España, India, Brasil, Yugoslavia, Japón, Chile, Francia y Uruguay, y con FAO|PNUD (Proyecto de Cooperación Técnica). El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO NACIONAL DE TECNOLOGIA AGROPECUARIA (INTA)
Rivadavia 1439
1033 Buenos Aires
Tel. 37-5090|95

Situación: Institución pública dentro del Ministerio de Agricultura y Ganadería, creada en 1958, supervisada por la Dirección Nacional de Programación y Evaluación.

Personal: de investigación: 11 (4 con postgrado)

Estaciones de campo: 6

Principales campos de actividad:

Agricultura.
Ganadería.
Extensión rural.
Programa Forestal: Introducción y mejoramiento genético de especies forestales para la producción de madera. Métodos silviculturales. Lucha contra plagas y enfermedades.

Instalaciones especiales: Un herbario y un laboratorio de física y química del leño.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en la revista IDIA, conferencias, seminarios y coloquios. Tiene una biblioteca con lector de microfichas.

Vínculos de colaboración: Tiene vínculos con todas las Direcciones Provinciales de Bosques y con las Facultades Forestales. En el plano internacional, tiene vínculos con CSIRO (Australia); Forest Service (USA); INIF (México); IPEF (Brasil); Forest Service (Sudáfrica) y AFOCEL (Francia). Es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

LABORATORIO DE ANATOMIA VEGETAL
DEPARTAMENTO DE CIENCIAS BIOLOGICAS
FACULTAD DE CIENCIAS EXACTAS Y NATURALES
UNIVERSIDAD DE BUENOS AIRES
Ciudad Universitaria, Pab. II, 4° piso, Nuñez
1428 Buenos Aires
Tel. 781-5020, int. 385

Situación: Institución universitaria supervisada por la Universidad de Buenos Aires y en parte por el Consejo Nacional de Investigaciones Científicas y Técnicas de la Argentina.

Personal: de investigación: 2 (1 con doctorado)

Estaciones de campo: -

Principales campos de actividad:

Anatomía normal de la madera; estructura y ultraestructura (se dictan cursos de postgrado sobre el tema); anatomía patológica de la madera.

Instalaciones especiales: Una histoteca de docencia e investigación y una xiloteca de 120 muestra. Equipos de laboratorio: 3 microscopios, 1 lupa, 3 micrótomos, estufas; una heladera y posibilidad de uso de MEB - MET y EDAX.

Publicaciones y servicios: Los resultados de la investigación se publican en revistas del país y extranjeras especializadas. Colección de separatas sobre el tema y suscripción al Bol. IAWA.

Vínculos de colaboración: Tiene vínculos formales con el Consejo Nacional de Investigaciones Científicas y Técnicas y con el Instituto Forestal Nacional. Ambos son miembros de IAWA. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

LABORATORIO DE MICOLOGIA
DEPARTAMENTO DE CIENCIAS BIOLOGICAS
FACULTAD DE CIENCIAS EXACTAS Y NATURALES
UNIVERSIDAD DE BUENOS AIRES
Ciudad Universitaria, Pablón II — Tel. 781-5020, int. 202
1428 Buenos Aires — Telegramas:

Situación: Institución universitaria fundada en 1960, supervisada por la Universidad de Buenos Aires y el Consejo Nacional de Investigaciones Científicas y Técnicas de la Argentina.

Personal: de investigación: 6 (3 con doctorado)
técnico: 2

Estaciones de campo: -

Principales campos de actividad:

Patología de la madera (en pie y en obra).

Instalaciones especiales: Un herbario con 10.000 muestras. Equipo de laboratorio: 7 microscopios, 4 lupas, estufas, heladeras, autoclaves, pH-metros, etc.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales y publicaciones en revistas especializadas. Tiene una biblioteca con 500 volúmenes; 12 suscripciones a revistas especializadas.

Vínculos de colaboración: Tiene vínculos formales con el Consejo Nacional de Investigaciones Científicas y Técnicas, el Institute Forestal Nacional y el Servicio Nacional de Parques Nacionales (todos para subsidios y cooperación). En el plano internacional, tiene vínculos con "National Fungus Collections", Beltsville, U.S.A.; Forest Products Laboratory, Madison, U.S.A.; Laboratoire de Mycologie, Université Claude Bernard, Lyon, Francia. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACIONES PARA ZONAS
ARIDAS Y SEMIARIDAS
República 350
Casilla de Correo 189 Tel. 25460
4700 Catamarca Telegramas:

Situación: Institución universitaria supervisada por la Secretaría de Ciencia y Tecnología de la Universidad Nacional de Catamarca (Casilla de Correo 189, 4700 Catamarca).

Personal: de investigación: 2
técnico: 2
otro (administrativo|secretarias): 2

Estaciones de campo: 1

Principales campos de actividad:

Investigación aplicada a los recursos naturales (mapa de vegetación, mapa del suelo, Programa algarrobo).
Energía no convencional de aplicación agrícola.
Investigación socioeconómica sobre la producción y la utilización de leña como fuente de energía (aspectos económicos).

Instalaciones especiales: Un herbario con un encargado a tiempo completo. Los equipos de laboratorio incluyen una cámara húmeda, un banco germoplasma y un invernadero.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, conferencias y seminarios. Tiene una biblioteca.

Vínculos de colaboración: Tiene vínculos formales con el Instituto Nacional de Tecnología Agropecuaria, la Dirección Provincial de Bosques, la Dirección de Ganaderia, y la Dirección de Colonización. En el plano internacional, tiene vínculos con O.E.A. (asistencia financiera directa). No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

FACULTAD DE CIENCIAS AGRARIAS
UNIVERSIDAD NACIONAL DEL COMAHUE
Ruta 151, Km. 12,5
C.C. 85
8303 Cinco Saltos, Río Negro Tel. 0943-80203|80005

Situación: La Facultad de Ciencias Agrarias es la más austral del país. Está ubicada en la región del Alto Valle del Río Negro y Neuquén, donde predomina el cultivo de salicáceas. De esta Facultad depende el Asentamiento San Martín de los Andes, que forma técnicos forestales, ubicado en la región de los bosques andino-patagónicos.

Personal: 20 docentes, investigadores y técnicos, distribuidos en 3 Departamentos y 1 Asentamiento.

Estaciones de campo: 1

Principales campos de actividad:

Patología forestal, edafología, y silvicultura.

Instalaciones especiales: -

Publicaciones y servicios: Canje de revista PHYTON. La Biblioteca Rómulo Raggio pertenece al sistema AGRINTER y es cabecera zonal del Sistema Nacional de Información Forestal.

Vínculos de colaboración: -
La Facultad no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

FACULTAD DE CIENCIAS AGROPECUARIAS - AREA SILVICULTURA
UNIVERSIDAD NACIONAL DE CORDOBA
Av. Valparaíso s/n
C.C. 509
5000 Córdoba

Tel. 65130|62684
Telex: 51822 BUCOR

Situación: Institución universitaria dependiente de la Universidad Nacional de Córdoba. El Area Silvicultura depende del Departamento de Recursos Renovables de la misma Facultad.

Personal: 4 ingenieros agrónomos, 1 ingeniero forestal.

Estaciones de campo: 3

Principales campos de actividad:

Ensayos de procedencia de Pinus patula.
Forestación de zonas semiáridas.

Instalaciones especiales: Un banco de germoplasma de Prosopis, viveros y plantaciones, y una unidad de semillas.

Publicaciones y servicios: No existen publicaciones. La Biblioteca de la Facultad tampoco edita publicaciones sobre temas forestales. El Area Silvicultura no cuenta con un servicio propio de biblioteca, sino que trabaja con la biblioteca de la Facultad.

Vínculos de colaboración: La Facultad colabora con IFONA (Instituto Forestal Nacional), SUBCYT (Subsecretaría de Ciencia y Técnica), el Consejo de Investigaciones Científicas y Tecnológicas de la Provincia de Córdoba (CONICOR), y con el Ministerio de Agricultura, Ganadería y Recursos Renovables, Dirección Areas Naturales. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO FORESTAL
FACULTAD DE CIENCIAS AGRARIAS
UNIVERSIDAD NACIONAL DE CUYO
Almirante Brown s/n
5505 Chacras de Coria (Mendoza) Tel. 96-004

Situación: La Facultad de Ciencias Agrarias de la Universidad Nacional de Cuyo es un organismo dependiente del Ministerio de Educación y Cultura de la República Argentina.

Personal: 7 profesionales universitarios
1 técnico
4 obreros
4 profesionales universitarios becarios del CONICET

Estaciones de campo: 2

Principales campos de actividad:

Silvicultura bajo riego.
Silvicultura de las zonas áridas.
Tecnología de maderas.

Instalaciones especiales: Un aserradero experimental y un vivero forestal.

Publicaciones y servicios: "Cuadernos de Dasonomía - Serie Científica" y "Cuadernos de Dasonomía - Serie Didáctica". Se utilizan los servicios de la biblioteca de la Facultad de Ciencias Agrarias.

Vínculos de colaboración: Convenio con el Instituto Forestal Nacional (IFONA); convenio con el Instituto Tecnológico de Investigación y Ensayo de Materiales (ITIEM). Trabajos en colaboración con el INCYTH, IADIZA y diversas empresas privadas. El Instituto no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACIONES FORESTALES
FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD NACIONAL DE MISIONES
Calle Bertoni s|n - Km. 3 — Tel. 2526
3382 Eldorado, Misiones — Telex: 76195 UME ARG

Sitacuón: Institución universitaria dependiente de la Universidad Nacional de Misiones. La Facultad inició sus actividades en 1975, y el Centro de Investigaciones Forestales en 1980.

Personal: de investigación: 14
técnico: 1
otro (administrativo|secretarias): 2

Estaciones de campo: 1

Principales campos de actividad:

Ecología y silvicultura del bosque nativo de Misiones (estudios fitoecológicos, fenológicos y dendrológicos, ensayos de enriquecimiento).
Propagación agámica de especies forestales (ind. cult. tejidos).
Estudio de plagas y enfermedades en especies forestales.
Estudios físico-mecánicos y preservación de maderas.
Estudios sobre leña (silvicultura, sp. leñeras, determinaciones de poder calorífico, estudios socioeconómicos).
Estudios sobre relaciones suelo-cultivo forestal.
Estudios de aerofotointerpretación.

Instalaciones especiales: Herbario con 500 muestras; colección de maderas de 150 muestras. Vivero experimental, laboratorios de fisiología vegetal, fitopatología, entomología y suelos. Equipo universal de ensayos de maderas.

Publicaciones y servicios: Se han editado a la fecha 2 actas conteniendo los trabajos de los investigadores y otros del Centro, presentadas en las Jornadas Científico-técnicas que se realizan bi-anualmente. La biblioteca de la Facultad cuenta con aproximadamente 3.000 volúmenes, 150 títulos de publicaciones periódicas incorporadas y 3.000 folletos y documentos. En la sede de la biblioteca funciona el Centro de Documentación e Información Forestal conectado a una Red Provincial y Nacional de Información Forestal, posibilitando búsqueda y recuperación bibliográfica específica en el orden nacional e internacional. Se brinda servicio reprográfico.

Vínculos de colaboración: El Centro colabora con la Secretaría de Ciencia y Técnica de la Nación, Ministerio de Ecología y Recursos Naturales Renovables de la Provincia de Misiones. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACIONES FORESTALES
UNIVERSIDAD NACIONAL DE LA PATAGONIA
Avda. Alvear 1021
9200 Esquel, Chubut

Tel. 0945|2148; 2271
Telegramas: CIF-Esquel
Telex: UNP CR ARG. 86022

Situación: Institución universitaria creada en 1981, dependiente de la Facultad de Ciencias Naturales (Km 4, Comodoro-Rivadavia, Prov. del Chubut, Tel. 0967-28837 y 0967-23396).

Personal: 11 profesionales universitarios
2 técnicos
16 personal de campo
3 personal administrativo

Estaciones de campo: 3

Principales campos de actividad:

Introducción, desarrollo y comportamiento de coníferas, salicáceas y otras latifoliadas de interés comercial.

Asociación silvo-pastoril.

Producción de biogas a partir de deshechos orgánicos.

Uso industrial del bosque (combustible, resinas, aprovechamiento integral, etc.).

Instalaciones especiales: Laboratorio de suelos, semillas y maderas. Un herbario en formación y una colección de maderas regionales que alcanzan al centenar de especies, con un profesional con dedicación exclusiva a cargo.

Publicaciones y servicios: Los resultados de las investigaciones y experimentaciones se difunden a través de un servicio de extensión de la Universidad, y en publicaciones periódicas en revistas, simposios, reuniones y congresos forestales. La memoria anual de las actividades es publicada por la Facultad de Ciencias Naturales. El Centro tiene una biblioteca (500 volúmenes entre libros y publicaciones) que suscribe a 3 revistas internacionales.

Vínculos de colaboración: Convenios de colaboración con el IFONA (Instituto Forestal Nacional) y con la Dirección de Bosques de las Provincias de Río Negro y Chubut. Recibe apoyo de tipo institucional de SECyT (Secretaría de Estado de Ciencia y Técnica) y subsidios individuales por parte de la SECyT y el CONICyT (Consejo Nacional de Investigaciones en Ciencia y Tecnología). El Centro no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

DIRECCION DE BOSQUES Y PARQUES
Fontana y Ameghino
Casilla de Correo 61
9200 Esquel, Chubut
Tel. 0945|2503

Situación: Dependiente de la Subsecretaría de Asuntos Agrarios, Ministerio de Economía, Servicios y Obras Públicas, Gobierno de la Provincia de Chubut.

Personal: profesional: 11 (10 ingenieros forestales, 1 ingeniero agrónomo)
paratécnico: 8
de apoyo: 10
temporario: 31

Estaciones de campo: 5 viveros, 10 destacamentos

Principales campos de actividad:

Manejo y ordenación forestal.
Silvicultura: Tratamientos de bosques espontáneos y cultivados; técnicas de cultivo de especies exóticas (coníferas y latifoliadas); introducción de especies.
Relevamiento de masas nativas.
Control de incendios forestales.

Instalaciones especiales: 5 delegaciones con viveros, 5 destacamentos con microestaciones meteorológicas (en W. Chubut). Un centro de cómputos, un gabinete de fotogrametría, e instrumental dasométrico.

Publicaciones y servicios: Sin servicio de publicaciones científicas. Servicio de extensión, difusión y fomento. Servicio de Contralor Forestal. Servicio de prevención y lucha contra incendios forestales. Asistencia técnica a productores. Provisión de material de plantación. Servicios de biblioteca en la Dirección Central de Esquel. Textos de ciencias básicas y publicaciones sueltas forestales.

Vínculos de colaboración: La Dirección de Bosques y Parques colabora con IFONA (Instituto Forestal Nacional), INTA (Instituto Nacional de Tecnología Agropecuaria), la Universidad Nacional de la Patagonia, Secyt (Secretaria de Ciencia y Técnica), CFI (Consejo Federal de Inversiones), otros Servicios Forestales provinciales, la FAO, la Administración de Parques Nacionales, etc. La Dirección no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

DEPARTAMENTO DE ESTUDIOS E INVESTIGACIONES FORESTALES
DIRECCION DE BOSQUES
José Maria 1513
3600 Formosa
Tel. 29521; 27576 Int. 7

Situación: Iniciación.

Personal: 10 ingenieros forestales

Estaciones de campo: 5 subregiones

Principales campos de actividad:

Economía forestal, aprovechamiento forestal y tecnología de la madera.
Sanidad forestal, mejoramiento género Prosopis.

Instalaciones especiales: Un secadero piloto de 2 m^3 de capacidad útil.

Publicaciones y servicios: - Usa el Centro de Información Bioagropecuario y Forestal de la Universidad Nacional del Nordeste.

Vínculos de colaboración: La Facultad de Ingeniero Forestal de la UNNE, la Asociación de Productores Madereros, y la Dirección de Estadísticas y Censo. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO TECNICO DE INVESTIGACIONES Y ENSAYO DE MATERIALES
MINISTERIO DE OBRAS Y SERVICIOS PUBLICOS
Los Paraísos y Boulogne sur Mer
5500 Mendoza
Tel. 253088

Situación: Institución pública de investigaciones tecnológicas y ensayo de materiales de construcción, creada en 1967. Depende del Gobierno de la Provincia de Mendoza, Ministerio de Obras y Servicios Públicos.

Personal: de investigación: 1)
técnico: 2) dedicados a maderas
administrativo: 1)

Estaciones de campo: -

Principales campos de actividad:

Ensayos mecánicos de las maderas.

Instalaciones especiales: Un laboratorio de ensayo de materiales, equipado para el ensayo mecánicos de las maderas y un laboratorio de química que apoya las necesidades de esta especialidad.

Publicaciones y servicios: Publica eventualmente el resultado de sus trabajos. El Centro de Documentación Técnica posee pubicaciones específicas (1.300 volúmenes, 8.000 fichas, 130 revistas; normas IRAM y ASTM).

Vínculos de colaboración: Está vinculado por convenio con el Instituto Forestal de la Facultad de Ciencias Agrarias de la Universidad Nacional de Cuyo. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CENTRO DE INVESTIGACION TECNOLOGICA
DE LA MADERA Y AFINES (CITEMA)
Juana M. Gorriti 3520
C.C. 42
1708 Morón
Tel. 665-3362; 665-0068

Situación: El Centro pertenece al Sistema de Centros de INTI (Instituto Nacional de Tecnología Industrial). Se encuentra en actividad desde 1978.

Personal:
1 Director Técnico (Ing. Forestal)
7 profesionales
3 técnicos
6 personal de apoyo (auxiliares técnicos)
2 administrativos, 1 maestranza.

Estaciones de campo: ninguna

Principales campos de actividad:

Tipificación de maderas, secado y estabilización, preservación, construcción de viviendas con madera, trabajabilidad.

Instalaciones especiales: Secadero industrial y piloto. Plantas piloto de: debobinado y corte plano; impregnación por vacío-presión; elaboración de aglomerado y compensados (incompleta). Laboratorios de ensayos físico-mecánicos y de análisis químico. Planta de maquinarias de carpintería.

Publicaciones y servicios: No se realizan publicaciones periódicas; sólo se publican notas técnicas. Se dispone de un sistema de servicios a terceros arancelado. Se posee material bibliográfico, pero no está ordenado.

Vínculos de colaboración: Colabora con el IFONA (Instituto Forestal Nacional) y con otros centros de investigación del INTI. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CATEDRA DE DASONOMIA
FACULTAD DE AGRONOMIA Y VETERINARIA
UNIVERSIDAD NACIONAL DE RIO CUARTO
Enlace Rutas 8 y 36 - Km. 603
5800 Río Cuarto (Córdoba) Tel. 24616; 24159; 23822

Situación: Institución universitaria creada en 1971. La investigación es supervisada por la Comisión de Investigación de la Facultad y por la Secretaría de Ciencia y Técnica de la Universidad.

Personal: de investigación: 4
otro: 1

Estaciones de campo: 2 Estaciones Forestales, 1 Jardín Botánico.

Principales campos de actividad:

Investigación forestal; fomento y desarrollo forestal; resinación; introducción de especies exóticas; estudio sobre especies naturales.

Docencia y extensión.

Instalaciones especiales: Laboratorios de suelos y de uso general, un vivero, invernáculos, vidrieras, un arboretum.

Publicaciones y servicios: Revista de la Universidad Nacional de Río Cuarto; Boletín de Divulgación y de Extensión; series técnicas. Hay una biblioteca centralizada (uso docencia e investigaciones); bibliografía de Cátedra y particular del personal.

Vínculos de colaboración: Se intercambia material de semillas con 52 Jardines Botánicos y Servicios Forestales. Existen convenios con el Instituto Forestal Nacional, con forestadores privados y con Servicios Provinciales. La Facultad no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

CONSEJO AGRARIO PROVINCIAL
Calle Roca 976
9400 Rio Gallegos

Tel. 2269-2335
Telegramas:

Situación: Institución pública dependiente del Ministerio de Economía y supervisada por la Subsecretaría de Ciencia y Técnica (Rivadavia 1917, 1033 Buenos Aires).

Personal: de investigación: 6
técnico: 5

Estaciones de campo: 3

Principales campos de actividad:

Producción agropecuaria.
Silvicultura de especies y comunidades vegetales para leña; selección de especies y procedencias; métodos de silvicultura.
Lucha contra incendios.
Inventario de recursos de leña.
Estudios sobre el crecimiento y los rendimientos.
Fijación de médanos con especies forestales.

Instalaciones especiales: - (tiene solamente equipos de rutina)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales. Tiene una biblioteca con 250 libros; 3 suscripciones a revistas técnicas.

Vínculos de colaboración: Tiene vínculos formales con el Instituto Forestal Nacional, el Instituto Nacional de Tecnología Agropecuaria y otros institutos. En el plano internacional, tiene, entre otros, convenios con la Organización de los Estados Americanos. Nos es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

DIRECCION DE ESTACIONES EXPERIMENTALES
DEPARTAMENTO DE EXPERIMENTACION FORESTAL
Av. Santibañez 1602
4600 San Salvador de Jujuy, Prov. de Jujuy Tel. 26499

Situación: Institución pública dependiente de la Secretaría de Estado de Asuntos Agrarios de la Provincia de Jujuy, creada en 1978.

Personal: de investigación y desarrollo: 1
de asistencia técnica: 1

Estaciones de campo: 4

Principales campos de actividad:

Mejoramiento forestal (ensayos de introducción de orígines de pinos y eucaliptos, y multiplicación clonal de sauces y álamos).
Estudios fenológicos y topoclimáticos.
Extensión forestal.

Instalaciones especiales: Un laboratorio de semillas y equipamiento meteorológico estándar.

Publicaciones y servicios: Los resultados alcanzados se informan mediante publicaciones no periódicas y a través de actas de jornadas técnicas o congresos forestales. El servicio de extensión forestal se presta mediante asesoramiento directo a los productores, conferencias y programas radiales. No dispone de servicios de biblioteca. Se apoya en las bibliotecas especializadas del Instituto Nacional de Tecnología Agropecuaria (INTA) y del Instituto Forestal Nacional (IFONA).

Vínculos de colaboración: Mantiene convenios de asistencia técnica ylo financiera con el IFONA, el Centro de Investigaciones y Experiencias Forstales (CIEF), la SECYT, y las empresas Celulosa Jujuy S.A. y Compañía Minera Aguilar S.A. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD NACIONAL DE SANTIAGO DEL ESTERO
Avda. Belgrano (Sud) 1912
4200 Santiago del Estero

Tel. 085|221322;222595
Telex: 64120 UNSET AR

Situación: -

Personal: 2 ingenieros forestales, 1 profesor (Botánica General), 1 profesor (Dendrología)
Personal auxiliar profesional
Personal auxiliar técnico
Personal auxiliar estudiantil

Estaciones de campo: -

Principales campos de actividad:

Disciplina botánica.
Investigación en las siguientes áreas: anatomía de madera; anatomía de corteza; estructura de epidermis foliar; consideraciones dendrológicas de especies forestales; morfología de plántulas de especies leñosas.

Instalaciones especiales: Un laboratorio de botánica y dendrología con infraestructura y equipos acordes a los planes de investigación citados, y un laboratorio de anatomía con xilótomo, afilador de cuchillas, microscopio de investigación, cámara fotográfica, y xiloteca. Micrótomo de parafina, germinador, etc.

Publicaciones y servicios: Los resultados de las investigaciones se presentan en congresos, jornadas y seminarios de la especialidad, ya que la Facultad no cuenta hasta el presente con una publicación propia. Se cuenta con el servicio de la Biblioteca Central de la Universidad.

Vínculos de colaboración: Colaboración con instituciones nacionales (INTA y otras universidades) y provinciales (IPVU, Dirección de Bosques). La Facultad no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

FACULTAD DE CIENCIAS FORESTALES
(Carreras de Ingeniería Forestal e Ingeniería en Industrias Forestales)
UNIVERSIDAD NACIONAL DE SANTIAGO DEL ESTERO
Avda. Belgrano (Sud) 1912 Tel. 222595; 221322
4200 Santiago del Estero Telex: 64120 UNSET AR

Situación: -

Personal: 32 docentes universitarios
34 auxiliares docentes universitarios

Estaciones de campo: -

Principales campos de actividad:

Silvicultura, ordenación de montes, dasometría, aprovechamiento forestal, control de plagas forestales, economía forestal, termodinámica, industrias de la madera, propiedades físicas de la madera, energía de biomasa, mejoramiento forestal.

Instalaciones especiales: -

Publicaciones y servicios: En programación. Se cuenta con la Biblioteca Central de la Universidad.

Vínculos de colaboración: Colabora con IFONA, Parques Nacionales, Direcciones de Bosques Provinciales, empresas particulares, e INTA. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO DE INVESTIGACIONES DE CONTROL BIOLOGICO (IN.CO.BI.)
FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD NACIONAL DE SANTIAGO DEL ESTERO
Avda. Belgrano 1912 Tel. 221322; 222595
4200 Santiago del Estero Telex: 64120 UNSET AR

Situación: Institución universitaria, parte integral de la Facultad de Ciencias Forestales de la UNSE. Consta de tres secciones: Salud Pública, Agronomía y Forestal.

Personal: 1 Director (Doctor-Ing. For. - dedic. exclusiva)
1 Profesor Adjunto (Ing. For. - dedic. simple)
1 Jefe de Trabajos Prácticos (Lic. en Ciencias Nat. - dedic. exclusiva)
2 Jefes de Trabajos Prácticos (Ing. For. - semi-dedic.)
2 ayud. de 1ª categoría (Ing. For. - semi-dedic.)

Estaciones de campo: -

Principales campos de actividad:

Estudio de las posibilidades de control biológico de plagas forestales.

Instalaciones especiales: 5 cámaras de cría de insectos, 2 salas de selección de material y 2 oficinas para profesionales.

Publicaciones y servicios: -
Se cuenta con el servicio de la Biblioteca Central de la Universidad.

Vínculos de colaboración: Colabora con la Dirección General de Bosques de la Provincia, con el IFONA (Instituto Forestal Nacional) y con el INTA. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO DE SILVICULTURA Y MANEJO DE BOSQUES
FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD DE SANTIAGO DEL ESTERO
Avenida Belgrano 1912 Tel. 222595;221322
4200 Santiago del Estero Telex: 64120 UNSET AR

Situación: El Instituto depende de la Facultad de Ciencias Forestales de la UNSE.

Personal: 4 ingenieros forestales
2 auxiliares
6 obreros

Estaciones de campo: 1

Principales campos de actividad:

Silvicultura, manejo de bosques, mejoramiento forestal, suelos forestales, introducción de especies, dasometría.

Instalaciones especiales: -

Publicaciones y servicios: en programación. Cuenta con el servicio de la Biblioteca Central de la Universidad.

Vínculos de colaboración: Parques Nacionales, IFONA, Dirección de Bosques Provincias del NOA. El Instituto no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

INSTITUTO DE TECNOLOGIA DE LA MADERA (ITM)
FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD NACIONAL DE SANTIAGO DEL ESTERO
Avda. Belgrano (Sur) 1912
C.C. 293
4200 Santiago del Estero

Tel. 222595; 221322
Telex: 6412 UNSET AR

Situación: El Instituto depende de la Facultad de Ciencias Forestales de la Universidad Nacional de Santiago del Estero y fue creado en 1978 por iniciativa de un grupo de docentes de cátedras afines a la Tecnología de la Madera.

Personal: investigadores y auxiliares universitarios: 13

Estaciones de campo: -

Principales campos de actividad:

Tecnología de la madera en las especialidades de anatomía de la madera, determinación de propiedades físicas y mecánicas, secado y preservación de maderas, estudios sobre tableros aglomerados y compensados, análisis químico de la madera, estudios de extractivos para un mejor aprovechamiento.

Instalaciones especiales: Laboratorios con instrumental adecuado, entre ellos el Laboratorio de Propiedades Físicas y Mecánicas con máquina de ensayo universal, cámara de climatización y demás elementos complementarios; estufa de secado artificial; planta piloto de impregnación para sales hidrosolubles; línea de instrumentales para elaboración de tableros aglomerados; etc.

Publicaciones y servicios: Se cuenta con el apoyo de la pequeña imprenta de la UNSE para aquellos trabajos de simple publicación, debiéndose recurrir a otras fuentes para trabajos de envergadura. Se usa la Biblioteca Central de la Universidad con bibliografía específica que es remitida por la GTZ GmbH de la República Federal de Alemania.

Vínculos de colaboración: Desde 1979 se cuenta con un Convenio de Cooperación Técnica entre el Gobierno de la República Federal de Alemania y el Gobierno de la República Argentina para el desarrollo de la tecnología de la madera en el ámbito de la UNSE; mediante este convenio se recibe asistencia técnica y asesoramiento y equipamiento adecuado por intermedio de la GTZ (Deutsche Gesellschaft für Technische Zusammenarbeit GmbH). También se tiene contacto con empresas privadas de la Argentina que financian en pequeña escala algunas investigaciones. El Instituto no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ARGENTINA

JARDIN BOTANICO
FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD NACIONAL DE SANTIAGO DEL ESTERO
Avda. Belgrano (Sud) 1912 — Tel. 222595; 221322
4200 Santiago del Estero — Telex: 6412 UNSET AR

Situación: -

Personal: 2 ingenieros forestales (docentes de la Universidad)
1 auxiliar técnico-administrativo
10 obreros

Estaciones de campo: -

Principales campos de actividad:

Botánica forestal: estudios sobre flora regional; colecciones de especies forestales y especies regionales en general.

Instalaciones especiales: -

Publicaciones y servicios: En programación. Se cuenta con el servicio de la Biblioteca Central de la Universidad.

Vínculos de colaboración: Colabora con la municipalidad de Santiago del Estero y con institutos forestales y botánicos del país. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

BOLIVIA

DEPARTAMENTO DE RECURSOS NATURALES RENOVABLES
FACULTAD DE CIENCIAS AGRICOLAS
UNIVERSIDAD BOLIVIANA "GABRIEL RENE MORENO"
Campus Universitario
Casilla de Correo 702 Tel. 4-2682
Santa Cruz Telegramas:

Situación: Institución universitaria dependiente de la Facultad de Ciencias Agrícolas, Universidad Boliviana "Gabriel René Moreno", creada en 1978, cerrada en 1980 y reabierta en 1983.

Personal: de investigación y de desarrollo: 4 (con doctorado)
técnico: 1
otro (administrativo|secretarias): 2

Estaciones de campo: -

Principales campos de actividad:

Docencia a nivel de licenciatura (ingeniería forestal).
Investigación sobre recursos naturales renovables (incluyendo ciencias forestales, tecnología y ordenación).

Instalaciones especiales: Un herbario y una colección de maderas, con un encargado a tiempo completo. Los equipos de laboratorio incluyen cromatografía gaseosa y equipo para análisis de suelos.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, conferencias, seminarios, talleres y simposios. Un boletín y una Revista de Ciencias Forestales están en preparación. La Facultad tiene una biblioteca con 500 libros y revistas técnicas, de las cuales el 5% aproximadamente corresponde a ramas forestales.

Vínculos de colaboración: Tiene vínculos formales con la Corporación de Desarrollo Regional de Santa Cruz (CORDECRUZ), el Centro de Desarrollo Forestal, y la Cámara Nacional Forestal. En el plano internacional, tiene vínculos con CATIE e IICA-Trópicos. Nos es miembro de IUFRO.

Idioma oficial de trabajo: español.

BRAZIL

CENTRO DE PESQUISAS FLORESTAIS DA ARACRUZ (CEPAR)
(Aracruz Forestry Research Centre)
Rua Professor Lobo, 1128
C.P. 50
29.190 Aracruz, ES, Brasil

Tel. (027) 256-1566
Telex: 027 3241

Status: A private organization forming an integral unit of the Aracruz Florestal S.A.

Staff: 9 research officers (1 Ph.D and 1 M.Sc)
10 technicians
4 (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest biotechnology (Eucalyptus spp. and tropical pines).
Soil and plant nutrition.
Forest entomology.
Ecological preservation.
Forest inventory.
Statistics.
Silviculture of Eucalyptus spp.

Special facilities: An insectarium with local specimens and laboratories for soil and plant analysis, biotechnology and entomology. A greenhouse, nurseries and seed orchards.

Publications and services: Technical reports, congress papers and other reports with restricted circulation. The Centre has a library with scientific and technical volumes and journals. An on-line system is being used for research on world technical and scientific literature.

Cooperation: The Centre collaborates with national institutions such as the Instituto de Pesquisas Tecnológicas (IPT), the Instituto de Pesquisas e Estudos Florestais (IPEF), and the Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), as well as with forestry schools. It maintains international contacts with the Central America and Mexico Coniferous Resources Cooperative (CAMCORE), and with CSIRO, Australia. The Centre is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

COMPANHIA AGRICOLA E FLORESTAL SANTA BARBARA
Av. Brasil 709
30.140 Belo Horizonte, MG, Brasil
Tel. (031) 2016322
Telex: 031 3394

Status: -

Staff: 8 research officers (1 Ph.D)
10 technicians

Field stations: 4

Principal fields of activity:

Silviculture and charcoal.

Special facilities: -

Publications and services: None

Cooperation: Cooperative links with universities and research institutes. The Company is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

FLORESTAS RIO DOCE S/A
Av. Amazonas, 491 - 6º Andar
30.187 Belo Horizonte, MG, Brasil

Tel. 031/212-4466
Telex: 031-1784

Status: Florestas Rio Doce is a State Company created in 1967, based in the State of Minas Gerais, as a subsidiary of the Companhia Vale do Rio Doce.

Staff: 25 foresters
25 technicians
4,000 labourers

Field stations: 12

Principal fields of activity:

Reforestation, wood harvesting, transports, and forestry research.

Special facilities: Two tropical forest stations and 2 laboratories.

Publications and services: Research results are published in annual reports, technical circulars and bulletins, and are disseminated through research conferences and seminars.

Cooperation: FRDSA maintains cooperative links with national institutions such as IPEF, SP; SIF, MG; IBDF, BSB, CAMORE and other private forest enterprises. The Company is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DEPARTAMENTO DE AGRICULTURA E SILVICULTURA
FACULDADE DE CIENCIAS AGRONOMICAS
UNIVERSIDADE ESTADUAL PAULISTA "JULIO DE MESQUITA FILHO"
Fazenda Lageado
18.600 Botucatu, SP, Brasil

Tal. 0149-223883
Telex: 0142.107

Status: A department of the Universidade Estadual Paulista (UNESP) established in 1919 for agronomy courses. Forestry courses are now being started.

Staff: 3 professors
4 technicians
2 other (administrative)

Field stations: 2

Principal fields of activity:

Forest inventory; evaluation of biomass volume and weight of pines and eucalypts; wood quality; forest mineral nutrition and fertilization; wood preservation.

Training in forest science.

Special facilities: Laboratory and computer facilities. Gas chromatography.

Publications and services: The University has a bi-annual publication entitled "Científica - Revista de Agronomia". There is a central library with 14,000 books and 1,293 journals.

Cooperation: The Faculty maintains cooperative links with national institutions such as IPEF, IF, SP, USP and private forest enterprises. It is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

EMPRESA BRASILEIRA DE PESQUISA AGROPECUARIA (EMBRAPA)
(Brazilian Agriculture Research Organization)
SCS Supercenter Venâncio 2000
C.P. 11.1316
70.333 Brasília, D.F., Brasil

Tel. 225 3870
Cables: EMBRAPA
Telex: 061.1620

Status: EMBRAPA is a public institution created in 1972. The National Programme of Forestry Research (PNPF) within EMBRAPA was created in 1977 and began activities in 1978. EMBRAPA is connected with the Ministry of Agriculture but has administrative and financial autonomy.

Staff: 52 research and development officers (1 Ph.D)
20 technicians
21 other (administrative/secretarial)

Field stations: 4

Principal fields of activity:

Socio-economic research: economic returns from farming systems incorporating trees.
Silviculture of fuelwood species: choice of species and provenance, propagation methods, silvicultural methods, fuelwood production systems, growth and yield.
Inventory of fuelwood resources.
Forestry research in general, except wood technology.

The research is conducted in the humid tropics, and semi-arid tropical and temperate zones.

Special facilities: A herbarium (2,500 specimens) and a xylarium (1,000 specimens), with a full-time curator. The laboratory facilities include gas chromatography.

Publications and services: Research results are published in annual reports, technical circulars and bulletins, and are disseminated through research conferences and seminars. EMBRAPA's Bulletin of Research is published every 4 months. The library contains over 2,000 volumes and 25 technical journals. Microfiche readers are available.

Cooperation: EMBRAPA maintains formal links with national institutions such as IPEF, IF.SP, IBDF, CODEVASF, the University of São Paulo, and private forest enterprises. Formal cooperation has been established with CSIRO, Australia (collection of seeds). EMBRAPA is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

FUNDACÃO UNIVERSIDADE DE BRASILIA
(Brasilia University Foundation)
C.P. 15.2958
70.910 Brasília, D.F., Brasil

Tel. 274-0022
Cables: 2429

Status: A university institution providing a forestry course. The university was founded in 1961. The forestry course was established in 1974 within the Agricultural Engineering Department of the university.

Staff: (information not available)

Field stations: 1 (for practical training)

Principal fields of activity:

Formal education: 36 undergraduate courses, and 25 postgraduate courses (23 at M.Sc. level and 2 at Ph.D level).

Special facilities: A herbarium and a xylarium. Laboratory facilities include gas chromatography and electron microscopy.

Publications and services: Research results are published in annual reports and disseminated through research seminars. There is a central library with 451,251 volumes, including magazines and periodicals.

Cooperation: (information not available) The Brasilia University Foundation is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

INSTITUTO BRASILEIRO DE DESENVOLVIMENTO FLORESTAL (IBDF)
(Brazilian Institute for Forest Development)
Av. L-4 Norte - S.A.I.N.
70.000 Brasília, D.F., Brasil
Tel. (061) 223-5966
Telex: (061) 1711 FLORAFAUNA

Status: IBDF is a public institution created in 1967. It is linked to the Ministry of Agriculture, but has administrative and financial autonomy.

Staff: ca. 100 researchers (B.Sc., M.Sc., Ph.Ds)
600 technicians (B.Sc.)
3,000 other (administrative/secretarial)

Field stations: 26

Principal fields of activity:

IBDF's objectives are: to formulate, coordinate and carry out forest policy, adopt the appropriate measures to ensure a rational utilization, protection and conservation of renwable resources and promote forestry development in Brazil.

Special facilities: -

Publications and services: Research results are generally published as field document reports. There are a central library at headquarters in Brasilia and 20 smaller local libraries. The central library has some 9,100 technical books and 820 periodicals.

Cooperation: IBDF maintains links with national institutions such as IPEF, IF-SP, EMBRAPA, INPA and universities. On an international basis, the Institute cooperates with FAO/UNDP through Project UNDP/FAO/IBDF/BRA 82-008 - Forestry Development in Brazil. IBDF is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DEPARTAMENTO DE ENGENHARIA FLORESTAL
(Forest Engineering Department)
CENTRO DE CIENCIAS AGRARIAS
UNIVERSIDADE FEDERAL DE MATO GROSSO
Avenida Fernando Corrêa da Costa s/n
78.000 Cuiabá, Mato Grosso, Brasil

Tel. 322.00.11
Cables: 172 (or 174)
Telex: 652.371-UFMT-BR

Status. A university institution founded in 1975 within the Federal University of Mato Grosso which was established in 1972. Supervised by the Sub-Rectorate of Research and Postgraduate Training (address as above).

Staff: 21 research officers
3 technicians
2 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Training in forestry sciences.
Research in agroforestry and tropical silviculture.
Socio-economic research.
Silviculture of fuelwood species (characteristics of preferred species; seed research).
Inventory of fuelwood resources.
Wood preservation.

Special facilities: A herbarium and a xylarium with a full-time curator.

Publications and services: Research results are published in scientific papers and in the "Revista da Universidade Federal de Mato Grosso". The Department maintains a library (information on stock not available).

Cooperation: The Department maintains formal links with the Federal University of Paraná (exchange of teaching staff) and with OEA (training in agrisilviculture and exchange of teaching staff). It is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

INSTITUTO DE FLORESTAS
(Forest Institute)
UNIVERSIDADE FEDERAL RURAL DO RIO DE JANEIRO
Antiga Rodovia Rio - São Paulo, Km. 47 Tel. 021-788
23.460 Itaguaí, RJ, Brasil Cables:

Status: A unit of the Universidade Federal Rural do Rio de Janeiro. Its present organization dates from 1975. Supervised by the National Council for Scientific and Technological Research (Avenida W.3 Norte 25078, Brasilia). The Institute has three departments: Environmental Sciences, Silviculture, and Forest Products.

Staff: 30 research officers (2 Ph.Ds)
24 other (administrative|secretarial)

Field stations: 1 (university campus)

Principal fields of activity:

Education, research and extension.
(Research is not carried out specifically on fuelwood.)

Special facilities: A xylarium with 8,000 specimens of Brazilian species.

Publications and services: Research results are disseminated through conferences, seminars and individual publications. The Institute maintains a library (information on stock not available).

Cooperation: The Institute has formal links with the Brazilian Institute of Forestry Development. No formal links with international organizations. It is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DURAFLORA SILVICULTURA E COMERCIO LTDA.
Rua Oswaldo Cruz 535
C.P. 146
13.200 Jundiaí, Brasil
Tel. (011) 437-3311

Status: A private organization of the group Duratex S|A, whose present structure dates from 1984. The Research and Development Department attends to all forest companies of the Group.

Staff:
2 agronomists
3 forest engineers
1 system analyst
1 agricultural technician
2 other (secretaries)

Field stations: Several field stations spread over seven regions of Brazil.

Principal fields of activity:

Genetic improvement of Eucalyptus grandis, E. saligna, E. urophylla and Pinus caribaea. Biotechnological management of Eucalyptus and Pinus (especially fertilization). Studies on Eucalyptus. Environmental studies (birds). Forest inventory. Statistics.

Special facilities: None

Publications and services: Research results are disseminated through conferences, seminars, visits and publications of the Instituto de Pesquisas e Estudos Florestais (IPEF). The Company maintains a library which is at present being reorganized.

Cooperation: The Company maintains national links with IPEF, the Escola Superior de Agricultura "Luiz de Queiroz", the Universidade de Campinas (UNICAMP), the Instituto de Pesquisas Tecnológicas (IPT), Cia. Agro-Florestal Monte Alegre (CAFMA), the Centro de Energia Nuclear na Agricultura (CEMA), the Universidade Federal de Viçosa, and the Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA). At the international level, it collaborates with the University of Oxford, U.K., with CSIRO, Australia, and with FAO|DANIDA. The Company is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

CENTRO DE PESQUISA DE PRODUTOS FLORESTAIS
(Forest Products Research Institute)
Estrado do Aleixo, 1756
C.P. 478
69.000 Manaus, Amazônia, Brasil

Tel. 092|236-9611
Cables: INPA BR
Telex: 922269 BR

Status: A public institution within the National Institute for Amazonian Research, created in 1978 and operating since 1982. Supervised by the National Council for Scientific and Technological Development (Avenida W.3 Norte, 507, 70.740 Brasilia).

Staff: 30 research officers (Ph.Ds, M.Scs, B.Scs., 4 expatriates)
50 technicians
42 other (administrative|secretarial|maintenance|carpenters, drivers, etc.)

Field stations: None

Principal fields of activity:

Wood and bark utilization research (anatomy, engineering, biodeterioration, drying, preservation); product-oriented research (sawn timber, furniture, board products, product improvement, development of new products); technology transfer; wood and bark chemistry; energy (fuelwood, charcoal, gas).

Special facilities: A xylarium (8,483 specimens) with a full-time curator. Laboratory facilities include an image analysing system (anatomy) and bomb calorimetry (chemistry); complete pilot plants for sawmilling, furniture manufacture, veneer| plywood, particle board and fibreboard.

Publications and services: Research results are published in annual reports, in the quarterly Information Bulletin "Amazonian Woods", and in INPA's "Acta Amazonica". The Centre maintains a library with 758 volumes in forest products and related fields; 60 subscriptions to national and international journals.

Cooperation: Formal cooperative links with the Technological Research Institute of São Paulo, the Brazilian Institute for Forest Development (joint research), and CTFT, France (joint projects). The Centre is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA (INPA)
(National Research Institute of the Amazon)
Estrada do Aleixo 1756
Caixa Postal 478 Tel. 92|236-9800|9899|9050
69.000 Manaus, Amazonas, Brasil Telex: 922269 INPA BR

Status: Foundation.

Staff: Research: 35 with doctorate, 75 with Master's degree, 133 B.As
Administration: 2 with doctorate (Director and Deputy Director), 9 with Master's degree, 33 B.As

Field stations: 5

Principal fields of activity: Tropical pathology, botany, ecology, natural products, cellulose and charcoal, aquatic biology, limnology, forest products, agriculture, and tropical forestry.

Special facilities: Data processing; two floating laboratories; 2 Xerox copiers.

Publications and services: "Acta Amazonica" (scientific organ of the Institute). Photographic services and library facilities. The library has 39,130 books, 49,185 offprints, 7,322 periodical titles; 145,367 copies of periodicals; 8,506 other materials such as maps, micro-reproductions, etc.

Cooperation: The Institute has a graduate programme in cooperation with the University of Amazonas, ten work agreements with national institutions, and another 10 work agreements with foreign institutions. It is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DIVISÃO DE TECNOLOGIA DE CELULOSE E CARVÃO VEGETAL
INSTITUTO NACIONAL DE PESQUISAS DA AMAZÔNIA
(Pulp and Charcoal Division, National Research
Institute of the Amazon)
Rua Alameda Cosme Ferreira 1756
Caixa Postal 478
69.000 Manaus, Amazonas, Brasil

Tel. 92-236-9400-R-130
Telex: 922209-INPA-BR

Status: A Division within the National Research Institute of the Amazon Region created in 1954 (pulp) and 1982 (charcoal), supervised by the National Council for Scientific and Technology Development (Avda. W 3 Norte, 507 - 70.740 Brasília, D.F.).

Staff: 2 chemical engineers (M.Sc.)
1 forestry engineer (M.Sc.)
1 economist (B.Sc.)

Field stations: None

Principal fields of activity:

Research into native and exotic woods in the Amazon Region to obtain pulp and charcoal as well as products of dry wood distillation.

Special facilities: Well-equipped laboratories for pulp and charcoal research.

Publications and services: The Divisional papers are published in the journal "Acta Amazonica". The Division offers opportunities for the training of personnel of other Brazilian institutions. It has reasonable library facilities, with subscriptions to the main journals specialized in pulp and charcoal.

Cooperation: No formal cooperation with other organizations, but many informal contacts with similar national and international laboratories. The Division is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DIVISÃO DE PESQUISA E PLANEJAMENTO FLORESTAL
(Forestry Research and Planning Division)
CHAMPION PAPEL E CELULOSE LTDA.
Rodovia SP-340, Km. 171
Caixa Postal 10 Tel. (0192) 61.1657
13.840 Mogi Guaçu, S.P., Brasil Telex: (019) 1016

Status: A Division of Campion Papel e Celulose Ltda., a private company. The Division has 6 sectors: Logging, Forest Management, Soil Management, Training and Methods, Genetic Improvement, and Forestry Planning.

Staff: 6 research officers
12 other (administrative|secretarial)

Field stations: -

Principal fields of activity:

Felling methods, log transportation studies, production of pulpwood and fuelwood, research in fertility, forest inventory, site quality, training, new methods to decrease reforestation costs, sexual and non-sexual propagation, grafting, fire control, and an overall responsibility for forestry research and development.

Special facilities: Greenhouses for vegetative propagation; a biological pest and disease control laboratory; a forest seed nursery, and a microcomputer for forest management.

Publications and services: Research results are published in technical publications and reports and are disseminated through research conferences, seminars and colloquia. The Division has a library, but technical books and magazines are insufficient.

Cooperation: The Division cooperates with national institutions such as EMBRAPA, IPEF, IF-SP, IBDF, the Universities of São Paulo, Rio de Janeiro and Viçosa, and with private forestry enterprises. Formal cooperation has been established with CSIRO, Australia (for seed collection). The Division is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

DEPARTAMENTO DE CIÊNCIAS FLORESTAIS
(Forest Science Department)
UNIVERSIDADE FEDERAL DE SANTA MARIA
Campus Universitário
97.119 Santa Maria - RS, Brasil

Tel. 055|226-1616
Cables: 2444
Telex: 552230

Status: A university institution providing a forestry course. The University was founded in 1960. The forestry course was established in 1970 within the Rural Science Centre of the University.

Staff: 16 research officers (3 Ph.Ds and 9 M.Scs)
4 technicians
4 other (administrative|secretarial)

Field stations: 3 (university campus, a national forest, and a regional silvicultural station)

Principal fields of activity:

Research in agroforestry and subtropical silviculture, socio-economic research, general silviculture, forest management, forest inventory, and wood technology research.

Teaching and training in forest sciences.

Special facilities: Silviculture laboratory (greenhouse, cold room, nursery); ecology laboratory; computer, forest biometry and forest inventory equipment; wood anatomy laboratory, sawmill, wood-drying laboratory, physical and mechanical properties laboratory (climatization room, universal testing machine); charcoal kiln.

Publications and services: Research results are published in technical publications and reports of variable periodicity and are disseminated through research conferences, seminars and colloquia. They are also published in the "Revista do Centro de Ciências Rurais" (Rural Science Centre Review). The University Library contains 75,000 books, 2,929 theses, 3,532 technical articles, and 2,772 technical and scientific magazines.

Cooperation: At the national level, the Department collaborates with FINEP, CNPq, IBDF, etc.; at the international level, with the University of Freiburg, FRG. The Department is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

CENTRO DE TECNOLOGIA MADEIREIRA - SUDAM
(Wood Technology Centre - CTM/SUDAM)
Rua Vera Paz s/n
C.P. 78
68.100 Santarém, Pará, Brasil

Tel. (091) 522-1127; 522-2127
Telex: (091) 2521-SUDM

Status: A forestry research and training centre for forest workers in the wood industry.

Staff: 7 research officers
8 technical support staff
48 administrative support staff

Field stations: 2

Principal fields of activity:

Wood technology, wood utilization, workers' training for the forest industry, tropical silviculture, forest management and forest exploitation.

Special facilities: A xylarium with 300 specimens; a seed bank with 120 specimens; a fruit collection with 40 specimens; 120 species are being tested.

Publications and services: Research results in all fields are published in technical papers and disseminated through congresses and seminars. The Centre maintains a library with 570 books, 295 pamphlets and 560 periodicals.

Cooperation: Close research links are maintained with FCAP, EMBRAPA and IPT. The Centre is not a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

INSTITUTO DE PESQUISAS TECNOLOGICAS
DO ESTADO DE SÃO PAULO S|A (IPT)
DIVISÃO DE MADEIRAS
(Institute for Technological Research
- Wood Division)
Avenida Prof. Almeida Prado, 532
C.P. 7141
01.000 São Paulo, SP, Brasil

Tel. 268-2211
Cables: TECNINST
Telex: (011) 22831 INPT

Status: A public institution evolving from the previous Laboratory for Testing Materials Strength of the Polytechnic School of São Paulo. Its present name dates from 1944 and the present organization from 1976. Supervised by the Secretariat for Industry, Trade, Science and Technology of the State of São Paulo (Av. Rio Branco 1269, 01.000 São Paulo, tel. 220-0033).

Staff: 25 research officers (6 Ph.Ds)
40 technicians
14 other (administrative|secretarial)

Field stations: 14 durability test sites in cooperation with the S.P. Forest Institute, three of them off-shore.

Principal fields of activity:

Forest resources evaluation.
Wood anatomy (identification and quality)
Characteristics of wood and wood-based panels.
Wood preservation - industrial processing of wood.
Energy from biomass.
Socio-economic research on fuelwood (economic aspects)
Silviculture of fuelwood species (multipurpose trees, fuelwood production systems).

Special facilities: A xylarium (17,000 specimens of South America and the tropical world) with a full-time curator. Laboratory facilities include gas chromatography, electron microscopy and bomb calorimetry.

Publications and services: Research results are published in technical publications and reports of variable periodicity and are disseminated through research conferences, seminars and colloquia. The Institute maintains a library (650 books and 5,000 publications) with microfiche readers; 60 subscriptions to international journals.

Cooperation: Formal links for exchange of information are maintained with VPI&SU, U.S.A.; PRL, U.K.; IRG, Sweden; FPL, U.S.A., and CTB, France. The Institute is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

BRAZIL

KLABIN DO PARANA AGRO-FLORESTAL S|A
CENTRO DE PESQUISA FLORESTAL (CEPE)
(Forest Research Centre)
Faz. Monte Alegre
84.260 Telêmaco Borba, Brasil

Tel. 0422|72.1348
Telex: 011 37835 KLAB BR

Status: A private organization forming an integral unit of Klabin do Paraná Agro-Florestal S|A. This organization evolved from a Research Centre created in 1947. The present structure dates from 1984.

Staff: 5 research officers (1 Ph.D (expatriate) and 2 M.Sc)
8 technicians
6 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Tree improvement (*Pinus taeda*, *P. elliottii*, *E. dunii*, *E. grandis*, *E. saligna*).
Management, inventory, statistics.
Ecological preservation.
Silviculture of cellulose species.

Special facilities: A tissue culture laboratory and a greenhouse.

Publications and services: Research results are disseminated through conferences, seminars and colloquia. The Centre maintains a library with 500 books and 1,000 publications.

Cooperation: Cooperative links with the following national institutions: Instituto de Pesquisas e Estudos Florestais (IPEF); Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA); Escola de Florestas, Universidade Federal do Paraná; Instituto de Pesquisas Tecnológicas (IPT). The Centre is a member of IUFRO.

Official working language: Portuguese
Official working language for international correspondence: English.

CHILE

LABORATORIO DE PRODUCTOS FORESTALES
DEPARTAMENTO DE INGENIERIA QUIMICA
FACULTAD DE INGENIERIA
UNIVERSIDAD DE CONCEPCION
Barrio Universitario
Casilla 53-C
Concepción

Tel. 234985|2137
Telex: 260157 INCON CL Concepción

Situación: -

Personal: 5 profesionales
4 técnicos

Estaciones de campo: -

Principales campos de actividad:

Investigación y docencia.

Instalaciones especiales: Equipamiento completo de laboratorio, desde astillado de la madera hasta ensayos de impresión en papeles.

Publicaciones y servicios: Disponibilidad de 14 colecciones de revistas especializadas y aproximadamente 150 textos sobre madera, celulosa y papel.

Vínculos de colaboración: Colabora con CICELPA-INTI, Buenos Aires (Argentina); CTCP-IPT, São Paulo (Brasil); LABONAC, Mérida (Venezuela); CICELPA-UIS, Bucaramanga (Colombia); ICAITI (Guatemala); IMCYP, Guadalajara (México); IPE, Madrid (España); Institut für Papierfabrikation (Alemania); Centre Technique Forestier Tropical (Francia); Department of Wood Paper Science, North Carolina State University (U.S.A.). No es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

UNIVERSIDAD DEL BIOBIO
Avenida Collao 1202
Casilla Postal 5-C
Concepción

Tel. 29984
Telegramas:

Situación: Institución de tipo universitario, supervisada por la Dirección de Investigación Científica y Tecnológica (Avda. Collao 1202, Casilla Postal 5-C, Concepción).

Personal: (información no disponible)

Estaciones de campo: -

Principales campos de actividad:

Educación.
Investigación socioeconómica sobre la producción de leña (evaluación del potencial de producción; aspectos económicos).
Silvicultura de especies para leña.
Investigación y tecnología industriales.

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales. Tiene una biblioteca con 4.138 volúmenes; suscripciones a 53 revistas técnicas internacionales.

Vínculos de colaboración: (información no disponible) No es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

CORPORACION NACIONAL FORESTAL (CONAF)
Avenida Bulnes 285
Santiago

Tel. 722724; 722569
Telex: 440138 CONAF CZ

Situación: Institución pública de derecho privado, creada en 1972. Es el organismo técnico del Ministerio de Agricultura. CONAF no se dedica a la investigación en forma directa. Esto lo hace sólo excepcionalmente. Es supervisada por la Comisión Nacional de Investigación Científica y Tecnológica (CONICYT)(Canadá 308, Casilla Postal 297-V, Santiago, tel. 744537).

Personal: de investigación: 15 (6 con doctorado)
otro (administrativo|secretarias): 14

Estaciones de campo: (información no disponible)

Principales campos de actividad:

Fomento y desarrollo forestal (administración de la investigación y ejecución de proyectos).
Manejo de cuencas y control de dunas.
Control forestal.
Control de plagas y de enfermedades forestales.
Control de incendios forestales.
Administración de sistemas de áreas silvestres protegidas y manejo de fauna.

Instalaciones especiales: No se dispone de información sobre herbario y colección de maderas. Hay un encargado con dedicación completa.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en el boletín bibliográfico "Chile Forestal" y en otras publicaciones de la CONAF, asi como a través de conferencias y seminarios de investigación. Tiene una biblioteca con 1,200 volúmenes.

Vínculos de colaboración: En el plano nacional, tiene vínculos formales con la Universidad Austral de Chile, con la Universidad de Chile, con la de Concepción y con el Instituto Forestal. En el plano internacional, con el PNUD, FAO, Egipto, España e Israel, Brasil, Colombia, Ecuador, Honduras, Paraguay, Perú y Uruguay. La CONAF es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

ESCUELA DE CIENCIAS FORESTALES
FACULTAD DE CIENCIAS AGRARIAS Y FORESTALES
UNIVERSIDAD DE CHLE
Santa Rosa, La Granja 11315
Casilla 9206
Santiago

Tel. 587003

Situación: La Escuela, creada en 1952, dependiente de la Facultad de Agronomía, se constituyó en Facultad de Ciencias Forestales entre 1972 y 1981. Actualmente depende de la Facultad de Ciencias Agrarias y Forestales y se rige por el Estatuto Universitario de la Universidad de Chile, 1983.

Personal: 54 académicos, 9 con doctorado y 16 con nivel de magister, 15 con cursos de especialización (EE.UU. Francia, España y Alemania). El resto cuenta con el título profesional y postula actualmente a especialización.

Estaciones de campo: 3 (total 480 ha)

Principales campos de actividad:

Manejo de los recursos forestales y utilización del recurso forestal. Principalmente se abordan: manejo de bosque nativo, instalación y manejo de plantaciones, administración de empresas, industrias de aserrío y secado, tableros, paneles e industria de celulosa y papel.

Instalaciones especiales: 3 viveros; laboratorios de: suelos forestales, semillas, fotogrametría y fotointerpretación, biodeterioro y preservación, secado de la madera, propiedades mecánicas de la madera, papel y celulosa, paneles y adhesivos y anatomía de la madera; y un centro de computación.

Publicaciones y servicios: La Escuela edita anualmente 3 números de la revista "Ciencias Forestales", independientemente de las publicaciones que aparecen en "Chile Forestal", y otras revistas de circulación nacional e internacional. Existe una biblioteca centralizada y subscripción a las principales revistas internacionales del quehacer forestal.

Vínculos de colaboración: La Escuela asiste la docencia de las carreras correspondientes de Uruguay y Paraguay y realiza labores conjuntas de investigación con CONAF (Corporación Nacional Forestal), INFOR (Instituto Forestal) e industrias del Sector. La Escuela es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

FACULTAD DE CIENCIAS AGRARIAS,
VETERINARIAS Y FORESTALES
UNIVERSIDAD DE CHILE
Santa Rosa 11315
Casilla 1004
Santiago

Tel. 587042
Telegramas:

Situación: Institución universitaria. Hasta diciembre de 1980 existían facultades separadas de Agronomía, Veterinaria y Forestal. Esta última fue creada en 1974. En 1981, se fusionaron en una sola, constituyéndose la actual Facultad. La investigación es supervisada por la Dirección de Investigación de la Facultad.

Personal: de investigación: 51 (6 con doctorado)
técnico: 10
otro (secretarias): 7

Estaciones de campo: 4

Principales campos de actividad:

Silvicultura y manejo forestal en especies autóctonas y en especies introducidas para combustibles y forraje.
Manejo de cuencas.
Tecnología de la madera y subproductos forestales.
Vida silvestre.
Economía forestal.
Suelos forestales.
Control de incendios.
Patología forestal.

Instalaciones especiales: Un herbario (6.000 muestras) y una colección de maderas (1.100 muestras), con un encargado con dedicación completa. El equipo de laboratorio comprende cromatografía gaseosa y una bomba calorimétrica. Hay un laboratorio de semillas, un laboratorio de suelos y un laboratorio de tecnología de maderas.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en revistas científicas y boletines técnicos, conferencias y seminarios. Tiene una biblioteca (10.759 libros; 177 suscripciones a revistas técnicas) con un lector de microfichas.

Vínculos de colaboración: En el plano nacional, tiene vínculos formales con el Instituto Nacional de Investigaciones Agropecuarias (INIA) y la Escuela de Ingeniería Forestal de la Universidad Austral de Chile, Valdivia. En el plano internacional, tiene vínculos con la Estación Experimental de Zaidín, Granada, España; el Centro Técnico de la Madera, Paris, Francia, y el Instituto de Investigación, Nancy, Francia. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

INSTITUTO FORESTAL (INFOR)
Huérfanos 554
Casilla Postal 3085
Santiago

Tel. 396189
Telegramas: HUERFANOS 554

Situación: Institución pública de derecho privado, creada en 1961, filial de la Corporación de Fomento de la Producción (CORFO) (Moneda 921, Casilla Postal 3886, Santiago, tel. 380521, telegramas: MONEDA 921) y supervisada por ella. Obtuvo su actual personalidad jurídica en 1965.

Personal: de investigación: 37 (2 con doctorado)
técnico: 16
otro (administrativo/secretarias): 20

Estaciones de campo: 3 (de las cuales 2 ubicadas dentro de predios privados)

Principales campos de actividad:

Manejo de bosques.
Silvicultura general y silvicultura de especies para leña (selección de especies y procedencias; investigación de semillas; métodos de silvicultura; lucha contra incendios).
Inventarios forestales.
Estudios económicos del sector forestal.
Investigaciones relacionadas con la industrialización de la madera.

Instalaciones especiales: Tiene una colección de maderas con muestras de maderas nativas y exóticas. El equipo de laboratorio incluye una ensambladora de madera, máquinas de ensayo universal, hornos de secado y balanzas de precisión, cámaras de clima, una planta piloto de impregnación, una máquina de carpintería, un espectofotómetro, un autoclave y equipos de terreno (motosierra, de mensura, etc.).

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de publicaciones, informes técnicos y manuales (190 publicaciones hasta la fecha) y seminarios sobre investigación. Tiene una biblioteca con 3.700 volúmenes; 65 suscripciones a revistas técnicas.

Vínculos de colaboración: En el plano nacional, tiene vínculos con la Facultad de Ciencias Agrarias, Veterinarias y Forestales de la Universidad de Chile, y la Corporación Nacional Forestal (proyectos de investigación conjunta). Intercambia publicaciones con varias instituciones. En el plano internacional, tiene vínculos con el PNUD, la FAO y "National Academy of Sciences" (NAS). El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

FACULTAD DE CIENCIAS FORESTALES
UNIVERSIDAD AUSTRAL DE CHILE
Campus Universitario, Isla Teja
Casilla 853
Valdivia

Tel. 2681-229
Telex: 271035 UNAUS

Situación: Institución universitaria dependiente de la Universidad Austral de Chile, fundada en 1954. La investigación es supervisada por la Dirección de Investigación y Desarrollo de la Universidad.

Personal: de investigación y docencia: 38 (12 con doctorado)
técnico: 8
otro (administrativo|secretarias): 19

Estaciones de campo: Seis predios (3.813 ha) incluyendo arboretum, vivero, módulos de silvopastoreo, huerto semillero, campo experimental de durabilidad de maderas, áreas de introducción de especies exóticas y un aserradero (10.000 m^3 anual) con secadores, planta de elaboración.

Principales campos de actividad:

Silvicultura.
Manejo y economía forestal.
Tecnología de productos forestales.

Instalaciones especiales: Laboratorios de suelo, de semillas, patología, entomología, fotogrametría, pulpa y papel, física y mecánica de la madera, planta piloto de impregnación, secador piloto, laboratorio de tableros de partículas y contrachapado, colección de maderas. Otras instalaciones incluyen equipos para cromatografía gaseosa, un microscopio electrónico, terminales de procesamiento de datos.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, diversas publicaciones, conferencias, seminarios, coloquios, tesis de grado y publicaciones en la revista "Bosque" (semestral). Usa la biblioteca central de la Universidad, que tiene 75.689 volúmenes y 2.745 títulos de revistas, de las cuales 1.614 se reciben en forma regular. La biblioteca tiene un lector de microfichas.

Vínculos de colaboración: Tiene convenios de asistencia técnica y de apoyo financiero con CONAF, ODEPA, SERPLAC y con las grandes empresas forestales del país (15 aprox.). Tiene vínculos académicos con las universidades de München y de Oregon. Es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

INSTITUTO DE MANEJO FORESTAL
UNIVERSIDAD AUSTRAL DE CHILE
Campus Universitario, Isla Teja
Casilla 567
Valdivia

Tel. 3911|Anexo 231

Situación: Instituto de investigación y docencia dependiente de la Facultad de Ciencias Forestales de la Universidad Austral de Chile. Posee total autonomía y no es supervisada sino por los mecanismos propios de la Universidad.

Personal: de investigación: 14 (8 con postgrado)
de apoyo: 4

Estaciones de campo: 1

Principales campos de actividad:

Manejo forestal; sistemas de manejo, modelos de simulación; manejo y uso del fuego; mercado de productos forestales; mensura forestal; sensores remotos; fotointerpretación; hidrología forestal; y manejo de áreas silvestres.

Instalaciones especiales: Un laboratorio de fotogrametría equipado con amplia cartografía. Fototeca, pantógrafo óptico, restituidores y GIS.

Publicaciones y servicios: Publicaciones docentes y la revista "Bosque". El Instituto usa la Biblioteca Central de la Universidad Austral de Chile.

Vínculos de colaboración: Colabora con las universidades de EE.UU. y Alemania. En el plano nacional, con los Departamentos de Investigación y Desarrollo de las empresas forestales líderes, así como con la Corporación Nacional Forestal y otras universidades nacionales. El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

CHILE

INSTITUTO DE SILVICULTURA
UNIVERSIDAD AUSTRAL DE CHILE
Campus Universitario, Isla Teja
Casilla Postal 567 Tel. 3911, An. 230
Valdivia Telegramas:

Situación: Institución universitaria creada en 1954 y supervisada por la Comisión Nacional de Investigación Científica y Tecnológica (Canadá 308, Casilla Postal 297-V, Santiago, tel. 744537).

Personal: de investigación: 17 (7 con doctorado)
técnico: 5
otro (administrativo/de oficina): 7

Estaciones de campo: 1

Principales campos de actividad:

Investigación silvo-agro-pecuaria.
Medicina.
Ciencias, biológicas en particular.
Silvicultura (genetica forestal; métodos de preparación del suelo; métodos de silvicultura; lucha contra plagas, enfermedades e incendios).
En general, investigaciones que se refieren a bosques como ecosistemas y como productores de madera.

Instalaciones especiales: Un herbario y una colección de maderas, un laboratorio de suelos y uno de patología. Los equipos incluyen cámaras de germinación, cromatografía gaseosa y un microscopio electrónico.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales y ocasionales, publicaciones en revistas nacionales e internacionales, y seminarios de investigación. Tiene el uso de la biblioteca de la Universidad.

Vínculos de colaboración: En el plano nacional, tiene vínculos con la Corporación Nacional Forestal y el Ministerio de Agricultura. En el plano internacional, tiene vínculos con el PNUD. El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

REFORESTADORA SAN SEBASTIAN S.A. (RESS)
Apartado Aéreo 869
Barranquilla

Tel. 422583|422539
Telegramas: LACARIBE
Telex: 033315

Situación: Institución privada fundada en 1958, entre cuyos socios se destaca Láminas del Caribe S.A. Esta última es socio de ALAFATA, dedicada a la fabricación de tableros de fibra.

Personal: de investigación: 3 y 1 extranjero
técnico: 1
otro: 2

Estaciones de campo: una finca forestal.

Principales campos de actividad:

Plantaciones forestales, bosques tropicales, selección de especies, servicios técnicos.

Instalaciones especiales: un laboratorio de pulpa.

Publicaciones y servicios: Los resultados de la investigación se difunden periódicamente mediante informes. Dispone de una biblioteca con 200 volúmenes.

Vínculos de colaboración: La Compañía tiene relación con la Asociación Colombiana de Forestación (ACOFORE); la Corporación Nacional de Investigación y Fomento (CONIF);y el Instituto Nacional de los Recursos Naturales Renovables y del Ambiente (INDERENA). Además ha tenido vínculos con CTFT y CSIRO, Australia. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

CORPORACION NACIONAL DE INVESTIGACION
Y FOMENTO FORESTAL (CONIF)
Calle 84, No. 20-05
Apartado Aéreo 091676
Bogotá, D.E.

Tel. 256.73.70
Telegramas: CONIF

Situación: Institución independiente, de tipo privado, creada en 1974 por iniciativa del Gobierno Nacional para fomentar la reforestación, impulsar las investigaciones forestales y promover el desarrollo socioeconómico en las áreas de aprovechamiento forestal. A partir de 1980, CONIF se convierte en coordinadora y principal ejecutora de la investigación forestal en Colombia. Siendo una entidad de derecho privado, la política de CONIF es determinada por su Junta Directiva

Personal: de investigación: 24 (3 extranjeros)
técnico: 23
otro (administrativo/secretarias): 14

Estaciones de campo: 5

Principales campos de actividad:

Silvicultura y manejo de las masas forestales naturales.
Plantaciones: técnicas y métodos para la planificación, establecimiento y manejo de plantaciones forestales.
Agroforestería: modelos agroforestales y silvopastorales.
Evaluación forestal.
Divulgación y transferencia de tecnología.

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales y publicaciones tales como notas técnicas y el boletín "Conif-Informa". Tiene una biblioteca con 3.700 documentos; 100 suscripciones a revistas técnicas. Además, tiene un Centro de Documentación e Información Forestal disponible para usuarios externos.

Vínculos de colaboración: Tiene contactos con diversas instituciones nacionales como INDERENA, la Federación Nacional de Cafeteros de Colombia, y Corporaciones Regionales en Urabá, Chocó, Araracuara, Tolima, etc. En el plano internacional, tiene convenios de cooperación con el Gobierno de Holanda, CIID, Canadá, IICA (Agrinter), y con el Pacto Andino (información agroforestal). Es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

INSTITUTO DE INVESTIGACIONES TECNOLOGICAS
Avenida 30, 52-A-77
Apartado Aéreo 7031
Bogotá, D.E.

Tel. 2-210066
Telegramas: TECNOLOGICO

Situación: Entidad autónoma, adscrita y vinculada al Ministerio de Desarrollo Económico.

Personal: Profesionales universitarios de nivel superior: 35
Personal técnico auxiliar: 27
Administración y servicios: 43

Estaciones de campo: -

Principales campos de actividad:

Investigaciones experimentales; estudios de factibilidad técnico-económica; estudios de identificación de oportunidades de inversión; estudios para fijación de bases relativas al mejoramiento de la tecnología y de la calidad de productos o para establecer nuevas industrias; servicios de análisis físicos, químicos y funcionales sobre materias primas, productos terminados y de consumo.

Instalaciones especiales: 22 laboratorios especializados; 6 plantas piloto; instalaciones auxiliares.

Publicaciones y servicios: "TECNOLOGIA", revista bimestral; "NOTAS TECNICAS", boletín mensual de alerta tecnológica; "RESUMEN DE ACTIVIDADES" (publicación anual).

Vínculos de colaboración: El Instituto ha adelantado proyectos de diferente tipo en colaboración con un número significativo de organismos internacionales, entidades gubernamentales extranjeras e instituciones particulares del país y del exterior. El Instituto no es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

INSTITUTO NACIONAL DE LOS RECURSOS NATURALES
RENOVABLES Y DEL AMBIENTE (INDERENA)
Diagonal 34 No. 516, piso 2º, Subgerencia
de Bosques y Aguas
Apartado Aéreo 13458
Bogotá 1

Tel. 387 11 01; 245 61 48
Telegramas: INDE-CO
Telex: 44428

Situación: Instituto nacional público, descentralizado y creado en 1969, adscrito al Ministerio de Agricultura. Las actividades de investigación forestal se iniciaron en 1971.

Personal: profesional de investigación: 12
técnico de investigación: 10
administrativo (secretarios y aux.): 5

Estaciones de campo: 6

Principales campos de actividad:

De investigación:

1) Evaluación del recurso forestal de Colombia.
2) Mejoramiento genético de especies forestales.
3) Patología y entomología forestal.
4) Daños abióticos y micorrizas.
5) Manejo y regeneración del bosque natural secundario.
6) Silvicultura y manejo de plantaciones forestales.
7) Cultivos in vitro de especies forestales.
8) Semillas y viveros forestales.
9) Epidometría forestal.

Instalaciones especiales: Laboratorio de patología forestal y cultivo de tejidos, Estación Forestal La Florida- Bogotá; laboratorio de semillas forestales, Estación For. La Florida-Bogotá; Banco Nacional de Semillas Forestales, Estación For. la Florida-Bogotá; Laboratorio de suelos forestales (en construcción); invernadero con condiciones de ambiente controladas (en construcción); Laboratorio de plagas y enfermedades forestales y daños abióticos, Piedras Blancas-Antioquia.

Publicaciones y servicios: Los resultados de las investigaciones forestales se difunden a través de publicaciones aperiódicas (mimeografiado). Existe una publicación seriada. El Instituto cuenta con una biblioteca con aproximadamente 5.000 documentos relacionados con el medio ambiente y recursos naturales. Suscripción a 5 revistas técnicas. Canje con 15 instituciones internacionales.

Vínculos de colaboración: Tiene vínculos nacionales con la Corporación del Valle del Cauca-CVC, Universidad Distrital, Nacional, Tolima y Javeriana, Corporación Investigaciones Forestales (CONIF), Instituto Geográfico Agustín Codazzi (IGAC), Planeación Nacional, Instituto Colombiano Agropecuario (ICA). Cooperación internacional con el Instituto Forestal de Oxford (Reino Unido), DANIDA Forest Seed Centre (Dinamarca), CSIRO (Australia), Centro Internacional para la Investigación y Desarrollo (Canadá), Instituto de Genética (Rep. Fed. de Alemania), Agencia Japonesa de Cooperación Técnica (JICA, Japón), y FAO. El Institutō es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

CORPORACION AUTONOMA REGIONAL DEL CAUCA-CVC
Apartado Aéreo 124
Buga-Valle

Tel. 71492; 77101
Telegramas: PLAN

Situación: Institución pública, parte integrante de la Planeación Nacional, por la cual es también supervisada. Fue fundada en 1954 con función similar a la de la Autoridad del Valle del Tennessee (TVA) en EE.UU. La Corporación ha servido de instrumento para el desarrollo integral del Valle del Cauca (parte sudoccidental de Colombia).

Personal: de investigación y desarrollo: 6 (con doctorado, 1 extranjero)
técnico: 3
otro (secretarias): 2

Estaciones de campo: 1 (hacienda) y 100 sitios experimentales.

Principales campos de actividad:

La investigación forestal es de tipo silvicultural en:

(1) Bosques naturales;
(2) Plantaciones forestales; y
(3) Areas erosionadas.

Instalaciones especiales: Un herbario con 500 muestras, un laboratorio de semillas, y un laboratorio de suelos.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, notas técnicas y conferencias sobre investigación. La Corporación tiene una biblioteca principal y tres satélites con 10.000 libros de los cuales 500 son de temas forestales.

Vínculos de colaboración: Tiene vínculos formales con INDERENA (Instituto de Recursos Naturales Renovables), CONIF (Corporación Nacional de Investigación Forestal) la Universidad Nacional de Colombia (aspecto bosques), la CIAT y la Universidad del Valle. En el plano internacional, tiene vínculos de colaboración con el Gobierno Alemán y con U.S.A. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

COLOMBIA

DIVISION FORESTAL
CARTON DE COLOMBIA, S.A.
Apartado Aéreo 219
Cali

Tel. 64-57-14; 64-57-12
Telex: 55595/55565

Situación: Empresa privada independiente. El Departamento de Investigaciones de la División Forestal fue establecido en 1973.

Personal: de investigación: 3 (1 extranjero)
técnico: 2
otro (secretaria): 1

Estaciones de campo: -

Principales campos de actividad:

Selección de especies y procedencias.
Genética forestal
Regeneración natural de los bosques tropicales húmedos.
Análisis de la calidad de la madera.
Fertilización forestal.
Ordenación de los árboles en pie (densidad, aclareo, aprovechamiento, poda).
Regeneración de las plantaciones (preparación del suelo, viveros, plantación).
Servicios técnicos.

Instalaciones especiales: Una xiloteca con 100 muestras y 10 arboretos; una cámara de germinación y equipos para análisis de la madera.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, informes de investigación (10 al año, en inglés y en español), panfletos y conferencias sobre investigación. Las publicaciones (informes de investigación consecutivos e informes anuales de investigación forestal) en inglés se encuentran en 'Forestry Abstracts', Universidad de Oxford, R.U. Se envían los informes en español o en inglés a entidades públicas que los soliciten.

Vínculos de colaboración: La División tiene vínculos formales con INDERENA y con otras empresas públicas ocupándose de genética forestal. En el plano internacional, tiene vínculos con el Commonwealth Forestry Institute, Oxford, Reino Unido; DANIDA; CSIRO, Canberra, Australia; y la University of North Carolina, EE.UU. (proyectos conjuntos). La División es miembro de IUFRO.

Idioma oficial de trabajo: español
Idiomas oficiales de trabajo para la correspondencia internacional: español e inglés.

COLOMBIA

DEPARTAMENTO DE RECURSOS FORESTALES
FACULTAD DE AGRONOMIA
UNIVERSIDAD NACIONAL DE COLOMBIA SECCIONAL MEDELLIN
Apartado Aéreo 568
Medellín Tel. 2307079 - 2300120

Situación: Institución universitaria pública. El Departamento de Recursos Forestales se creó en 1951.

Personal: de docencia e investigación: 18
técnico: 5
otro (administrativo|secretarias): 3

Estaciones de campo: 1 estación forestal, 3 fincas agrícolas.

Principales campos de actividad:

Docente: ofrece la carrera de Ingeniería Forestal (5 años) y Tecnología Forestal (2½ años).

Investigación: en las áreas de silvicultura de plantaciones, silvicultura tropical, dasometría y manejo de bosques de plantación.

Aprovechamiento forestal, industrias de la madera.

Instalaciones especiales: Un herbario con más de 3.000 muestras, una xiloteca con 2.500 muestras, un laboratorio de semillas y un laboratorio de productos forestales.

Publicaciones y servicios:

Edita manuales como guía docente, presta asesoría a empresas públicas y privadas por intermedio de sus profesores en los campos de silvicultura, ordenación e industrias forestales. Realiza trabajos de investigación, con los estudiantes de pregrado, en la modalidad de tesis. Tiene una biblioteca unida a la Red Nacional de Bibliotecas con 25.000 libros y 2.253 revistas.

Vínculos de colaboración: Tiene vínculos formales con INDERENA (Instituto Nacional de los Recursos Naturales Renovables y del Ambiente), CONIF (Corporación Nacional de Investigación Forestal), la División Forestal Cartón de Colombia, S.A., CVC (Corporación Autónoma Regional del Cauca) y con otras entidades públicas y privadas. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

COSTA RICA

DEPARTAMENTO DE INGENIERIA FORESTAL
INSTITUTO TECNOLOGICO DE COSTA RICA
Apartado 159
Cartago

Tel. 51-53-33
Telex: BO 13 ITCRCR

Situación: Institución universitaria autónoma, supervisada por la Vicerectoría de Investigación. El Instituto se creó en 1971 y el Departamento se estableció en 1975.

Personal: de investigación: 4
técnico: 3
otro (administrativo|secretarias): 3

Estaciones de campo: 1 (finca forestal)

Principales campos de actividad:

Docencia apoyada por programas de investigación.
Investigación socioeconómica sobre producción de leña (aspectos económicos).
Silvicultura de especies para leña (investigación sobre semillas, métodos de preparación del suelo, métodos de silvicultura, manejo de plantaciones).
Manejo y ordenación de cuencas.
Aprovechamiento forestal.
Producción de carbón vegetal.
Preservación de la madera.
Utilización de tracción animal en labor forestal.

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en revistas, y a través de seminarios de investigación. Tiene una biblioteca con 2.500 volúmenes y 4 revistas.

Vínculos de colaboración: Tiene vínculos formales con instituciones nacionales (proyectos conjuntos) e intercambios de personal y de información con la Escuela Nacional de Ciencias Forestales, Siguatepeque, Honduras. Intercambio de información con otras 20 universidades. Es miembro de IUFRO.

Idioma oficial de trabajo: español.

COSTA RICA

ESCUELA DE CIENCIAS AMBIENTALES
UNIVERSIDAD NACIONAL
Apartado 86
Heredia

Tel. 37-41-51

Situación: Institución educacional y de investigación, dependiente de la Universidad Nacional.

Personal: 40 profesores

Estaciones de campo: Parques nacionales, reservas y fincas privadas.

Principales campos de actividad:

Silvicultura, planificación y manejo, ecología forestal, contaminación, manejo de fauna silvestre.

Docencia en el campo forestal y en educación ambiental.

Instalaciones especiales: Laboratorios de ecología, cuencas, contaminación, áreas silvestres, maderas, dendrología y laboratorios de docencia.

Publicaciones y servicios: La Escuela publica una Revista de Ciencias Ambientales (semestral) que se usa como material de canje. Los servicios de biblioteca son muy limitados.

Vínculos de colaboración: Colabora con instituciones gubernamentales y no gubernamentales. Se desarrollan proyectos con financiamiento de FAO, OEA, BID, MAG e IFS. La Escuela no es miembro de IUFRO.

Idioma oficial de trabajo: español.

COSTA RICA

DEPARTAMENTO DE INVESTIGACION FORESTAL
DIRECCION GENERAL FORESTAL
MINISTERIO DE AGRICULTURA Y GANADERIA
Apartado 10094
1000 San José

Tel. 21-95-33
Telegramas: M.A.G.

Situación: Institución pública. El Departamento se inició en 1980 en convenio con el CATIE por seis años.

Personal: de investigación: 9
técnico: 5
otro (administrativo): 3

Estaciones de campo: 1

Principales campos de actividad:

Investigación socioeconómica sobre producción y utilización de leña (evaluación del potencial de producción y aspectos económicos de la producción).
Silvicultura de especies nativas y exóticas (selección de especies y procedencias; métodos de propagación; métodos de preparación del suelo; métodos de silvicultura; sistemas de producción; plagas y enfermedades).
Inventario de recursos, crecimiento y rendimiento.
Manejo de bosques naturales.

Instalaciones especiales: Se está construyendo un laboratorio de semillas y plagas forestales.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines divulgativos, conferencias y seminarios. La Dirección General Forestal tiene una biblioteca.

Vínculos de colaboración: Tiene convenios con las universidades, municipalidades y centros agrícolas cantonales. En el plano internacional, tiene convenios con ROCAP (proyecto leña y fuentes alternas de energía). Es miembro de IUFRO.

Idioma oficial de trabajo: español.

ECUADOR

CENTRO FORESTAL DE CONOCOTO
Conocoto-Quito Tel. 311-092

Situación: Hasta fines de 1985, tenía el nivel de Departamento. Actualmente es una unidad adscrita al Departamento de Producción del Programa Nacional Forestal, del Ministerio de Agricultura y Ganadería.

Personal: de investigación: 4
técnico: 3

Estaciones de campo: 2

Principales campos de actividad:

Investigaciones silviculturales en vivero y en el campo.

Instalaciones especiales: Un invernadero, una xiloteca y un herbario.

Publicaciones y servicios: Los resultados de las investigaciones se difunden mediante documentos técnicos. Existe la revista "Forestal Informativo". Se tiene una biblioteca especializada en el campo forestal.

Vínculos de colaboración: Existen vínculos con la Corporación Forestal Juan Durini (privada). El Centro no es miembro de IUFRO.

Idioma oficial de trabajo: español.

ECUADOR

INSTITUTO DE INVESTIGACIONES TECNOLOGICAS
ESCUELA POLITECNICA NACIONAL
Calle Isabel la Católica
Casilla 2759
Quito

Tel. 541794
Telex: 2650 ESPONA

Situación: Institución universitaria, parte integrante de la Escuela Politécnica Nacional, creada en 1968 y supervisada por el Consejo de Investigación y Desarrollo (Ladrón de Guevara, Casilla 2759, Quito, tel. 522033, telex 2650 ESPONA).

Personal: de investigación y desarrollo: 2
técnico: 1
otro (administrativo|secretaria): 2

Estaciones de campo: (información no disponible)

Principales campos de actividad:

Investigaciones aplicadas a los alimentos.
Asistencia técnica a la industria.

Instalaciones especiales: Tiene un laboratorio de pulpa y papel. El equipo de laboratorio incluye cromatografía gaseosa y una bomba calorimétrica.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines y seminarios sobre investigación. Tiene una biblioteca con libros sobre maderas y pulpa para papel. Hay también un lector de microfichas.

Vínculos de colaboración: Tiene vínculos formales con el Ministerio de Agricultura y Ganadería y con estaciones de investigación agropecuaria del INIAP. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

ECUADOR

EMPRESA DE DESARROLLO FORESTAL C.E M. (EMDEFOR)
Primera Constituyente 20-49
Apartado 363
Riobamba
Tel. 962-430; 963-068

Situación: Institución independiente privada, creada en noviembre de 1980 y supervisada por el Departamento de Investigación.

Personal: Investigadores y un jornalero agrícola.

Estaciones de campo: 7

Principales campos de actividad:

Forestación y reforestación de la zona central del Ecuador.
Investigaciones forestales a nivel de vivero y en el campo.
Producción de especies ornamentales.
Organización de cooperativas forestales.
Avalúo de bosques.
Recolección de semillas y partes vegetativas de especies nativas.
Asesoría en viveros forestales.
Implementación y planes de manejo en plantaciones.
Procesamiento técnico en plantaciones.
Conservación de suelos, manejo de bosques, eliminación de especies, ensayos de fertilización.

Instalaciones especiales: Un herbario y una colección de maderas; un laboratorio, una estación meteorológica e instrumental auxiliar.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, conferencias de investigación y tesis de grado (nivel superior). La Empresa brinda asesoramiento técnico. Tiene una biblioteca con 150 volúmenes y revistas.

Vínculos de colaboración: La empresa colabora con instituciones afines con su actividad. Tiene vínculos formales con el Ministerio de Agricultura y Ganadería (Programa Nacional Forestal); la Escuela Superior, Facultad de Agronomía de la Politécnica de Chimborazo; el Instituto de Investigaciones Agropecuarias; y el Consejo Provincial de Chimborazo. En el plano internacional, recibe periódicamente un voluntario del Cuerpo de Paz de U.S.A. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

EL SALVADOR

DEPARTAMENTO DE INVESTIGACION FORESTAL
SERVICIO FORESTAL Y DE FAUNA
MINISTERIO DE AGRICULTURA Y GANADERIA
Apartado de Correos 2265 Tel. 27-06-22
San Salvador Telegramas:

Situación: Institución pública, parte del Servicio Forestal y de Fauna que a su vez pertenece al Centro de Recursos Naturales. Establecida en 1973 en base a la ley de creación del Servicio Forestal y supervisada por el Servicio Forestal y de Fauna.

Personal: de investigación: 4
técnico: 7
otro (secretaria): 1

Estaciones de campo: 1

Principales campos de actividad:

Protección forestal.
Silvicultura.
Manejo forestal.
Utilización forestal.

Instalaciones especiales: Un herbario y una colección de maderas con escasas muestras. Hay un encargado con dedicación completa. Posee una planta de impregnación de madera y una planta de secado de madera.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales y boletines informativos de la biblioteca del Centro de Recursos Naturales (Apartado 2265, San Salvador).

Vínculos de colaboración: No existen vínculos formales. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

GUATEMALA

INSTITUTO NACIONAL FORESTAL (INAFOR)
7ª Avenida 11-63, Zona 9
Ciudad de Guatemala

Tel. 317215; 67221
Telegramas:

Situación: Institución pública. En el campo de investigación es supervisada por CATIE (Centro Agronómico Tropical de Investigación y Enseñanza), Turrialba, Costa Rica.

Personal: de investigación: 11 (2 con doctorado, 1 extranjero)
técnico: 4
otro (secretaria): 1

Estaciones de campo: 1

Principales campos de actividad:

Investigación socioeconómica sobre producción y utilización de leña como fuente de energía (conocimiento del medio natural y humano, evaluación del potencial de producción y de las necesidades, aspectos económicos).
Silvicultura de especies para leña (selección de especies y procedencia, métodos de preparación del suelo, métodos de silvicultura, lucha contra plagas, enfermedades e incendios, sistemas de producción, rotación, crecimiento y rendimiento).
Investigación sobre el medio ambiente.

Instalaciones especiales: (información no disponible)

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en revistas agronómicas o forestales, conferencias y seminarios.

Vínculos de colaboración: Tiene vínculos con CATIE (asistencia técnica y financiera) a través del Proyecto Leña y Fuentes Alternas de Energía. Es miembro de IUFRO.

Idioma oficial detrabajo: español.

HONDURAS

ESCUELA NACIONAL DE CIENCIAS FORESTALES (ESNACIFOR)
Carretera del Norte
Apartado Postal No. 2 Tel. 73-2011
Siguatepeque, Comayagua Telegramas: APARTADO 2

Situación: Institución pública, dependiente de la Corporación Hondureña de Desarrollo Forestal. Fundada en 1969 con función de enseñanza media; inició la enseñanza superior en 1971. En 1977, se estableció la Sección de Investigación Forestal. A nivel de planificación, es supervisada por el Consejo Superior de Planificación Económica con la participación de COHDEFOR y ESNACIFOR.

Personal: de investigación y desarrollo: 11 (1 con doctorado, 8 extranjeros)
técnico: 3
otro (administrativo|oficina): 2

Estaciones de campo: 1

Principales campos de actividad:

Semillas y viveros forestales.
Plantaciones forestales.
Silvicultura.
Protección: plagas, enfermedades, incendios forestales.
Química y conservación de suelos.
Propiedades de la madera.
Industria de la madera.
Producción de bioenergía.
Economía y finanzas.
Bosques latifoliados tropicales y semitropicales.

Instalaciones especiales: Un herbario (400 muestras) y una colección de maderas (60 muestras) con un encargado con dedicación completa. Otros equipos incluyen: computador, tostadora universal, micrótomos, microscopios varios, calorímetros, pH metros, hornos varios, secador solar, potenciómetros, equipos dasométricos varios, equipos de fotogrametría varios, etc.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, artículos científicos, notas técnicas, conferencias y seminarios. Tiene una biblioteca con 5.000 volúmenes científicos y 3.000 volúmenes técnicos; 37 suscripciones a revistas científicas.

Vínculos de colaboración: En el plano nacional, tiene vínculos formales con la Facultad Agrícola Forestal, Universidad Autónoma, La Ceiba. En el plano internacional, tiene intercambios de información con el College of Forestry, Universidad de Idaho, Moscow, EE.UU., con CATIE, Turrialba, Costa Rica, y con el College of Forest Resources, Universidad de Washington, Seattle, EE.UU. Es miembro de IUFRO.

Idioma oficial de trabajo: español
Idiomas oficiales de trabajo para la correspondencia internacional: español e inglés.

HONDURAS

CORPORACION HONDUREÑA DE DESARROLLO FORESTAL (COHDEFOR)
Barrio El Carrizal, Comayaguela
Apartado Postal 1378 Tel. 22-7050
Tegucigalpa Telex: 321-1192 COHDEFOR HT

Situación: Institución pública independiente, creada en 1974 por Decreto-Ley No. 103.

Personal: de investigación (sólo con dedicación parcial; 1 extranjero)
técnico: 3 (1 con dedicación completa y 2 con dedicación parcial)
otro (administrativo|secretarias): 3

Estaciones de campo: - (Los ensayos se llevan a cabo en los distritos forestales.)

Principales campos de actividad:

Investigación de la producción forestal del bosque pinar.
Estudio del comportamiento de especies de rápido crecimiento, exóticas y nativas.
Investigación socioeconómica sobre producción y utilización de leña para energía (aspectos humanos, institucionales y económicos).
Silvicultura de especies para leña (investigación sobre semillas, método de preparación del suelo, métodos silviculturales, lucha contra plagas y enfermedades).
Inventario de recursos de leña.
Conversión de la leña en energía.
Investigación sobre el medio ambiente.

Instalaciones especiales: n|a

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines y notas técnicas, publicaciones en jornadas de reforestación (anuales) y conferencias sobre investigación.

Vínculos de colaboración: Tiene vínculos con el Laboratorio de Suelos del Ministerio de Recursos Naturales, Tegucigalpa, con los Servicios para la Investigación Agrícola Tropical de la Standard Fruit Co., y con la Escuela Agrícola Panamericana (intercambio de información). En el plano internacional, tiene vínculos con la Universidad de Oxford, Reino Unido (semillas, genética forestal) y con USAID (estudio de plagas y enfermedades). No es miembro de IUFRO.

Idioma oficial de trabajo: español.

HONDURAS

ESCUELA AGRICOLA PANAMERICANA
Apartado 93
Tegucigalpa

Tel. 33-3173; 33-2717

Situación: Institución universitaria privada, fundada en 1942.

Personal: de investigación: 44 (15 con doctorado, 35 extranjeros)
técnico: 75
otro (administrativo/secretarias): 35

Estaciones de campo: 1

Principales campos de actividad:

Zootecnia, agronomía, protección vegetal, horticultura, economía agrícola, piscicultura, silvicultura (investigación socioeconómica sobre producción y utilización de leña como fuente de energía - evaluación de las necesidades, evaluación del potencial de producción, aspectos económicos de la producción).

Instalaciones especiales: Un herbario (105.000 muestras) con un encargado con dedicación completa. Varios laboratorios de investigación.

Publicaciones y servicios: La Escuela publica la revista "Ceiba" y varios libros y folletos. Mantiene una biblioteca con 17.000 volúmenes y 40.000 volúmenes de revistas (1.000 títulos).

Vínculos de colaboración: En el plano internacional, tiene vínculos de colaboración con CATIE, Turrialba (Costa Rica), Winrock (EE.UU.), la Universidad de Florida, Gainesville, y la Universidad de Kansas, Manhattan. La Escuela no es miembro de IUFRO.

Idioma oficial de trabajo: español.

JAMAICA

RESEARCH AND DEVELOPMENT UNIT
DEPARTMENT OF FORESTRY AND SOIL CONSERVATION
South Odeon Avenue, 2
Kingston 10

Tel. 92-96170-3
Telex: 2377 FIDCO JA

Status: A public institution within the Department of Forestry and Soil Conservation, Ministry of Agriculture. The Unit was formalized in 1980 to provide services to the forestry sector in Jamaica. It is supervised by the Department of Forestry and Soil Conservation (Constant Spring Road 173, Kingston 8, tel. 92-42667/8).

Staff: 5 research officers (1 expatriate)
4 technicians
1 other (secretarial)

Field stations: (information not available)

Principal fields of activity:

Tropical pine plantation establishment and protection nursery stock.
Tropical pine seed and genetics.
Tropical hardwood plantations.
Fuelwood plantations.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and research notes (5 per year). The Unit has a library with some 500 volumes.

Cooperation: The Unit has many informal links with national institutions. It has international links with the Commonwealth Forestry Institute, Oxford, U.K., and with TFI, Puerto Rico.

Official working language: English.

MEXICO

CENTRO DE INVESTIGACIONES FORESTALES
DEL TROPICO HUMEDO (CIFTROH)
Calle 55, No. 18
24000 Campeche, Camp. Tel. 6-04-19

Situación: Institución pública, dependiente del Instituto Nacional de Investigaciones Forestales (Avenida Progreso 5, 04110 México, D.F.) y supervisada por el mismo. Fue creada en noviembre de 1977 para coordinar las investigaciones en 5 Estados del área forestal tropical de México.

Personal: de investigación y desarrollo: 27
técnico: 11
otro (administrativo/secretarias): 30

Estaciones de campo: 3

Principales campos de actividad:

Manejo de selvas.
Protección forestal.
Uso múltiple de los recursos forestales.
Fauna silvestre.
Establecimiento y manejo de plantaciones forestales.
Diagnóstico y planeación de la actividad forestal.
Utilización e industrialización de productos forestales maderables y no maderables.
Capacitación media superior.

Instalaciones especiales: Un herbario con 200 muestras y una colección de maderas con 70 muestras. El equipo de laboratorio incluye una germinadora de semillas, estufas disecadoras, una lupa estereoscópica, etc.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines técnicos, conferencias, cursos y trabajos conjuntos con usuarios. El Centro tiene una biblioteca con 3.000 documentos técnicos y suscripciones a ISTA.

Vínculos de colaboración: En el plano nacional, vínculos con otros institutos de investigaciones agrícola-pecuarias y de recursos naturales en general, así como con colegios, universidades y escuelas de diferentes niveles de educación. En el plano internacional, tiene vínculos con la Comisión Forestal de Norteamérica, universidades, ISTA y con las instituciones de investigación de otros países. Intercambia alumnos con otros países. El Centro es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

CENTRO DE INVESTIGACIONES FORESTALES DEL GOLFO
Avenida 13, No. 406
94580 Córdoba, Ver.

Tel. 2-31-45
Telegramas:

Situación: Institución pública,dependiente del Instituto Nacional de Investigaciones Forestales (Avenida Progreso 5, 04110 México, D.F.), creada en 1982 y supervisada por el INIF.

Personal: de investigación (información no disponible)
técnico: 7
otro (administrativo|secretarias): 4

Estaciones de campo: 4

Principales campos de actividad:

Diagnóstico y planeación.
Manejo de bosques naturales.
Protección forestal.
Uso múltiple de los recursos forestales.
Establecimiento y manejo de plantaciones.
Investigación socioeconómica sobre la producción y utilización de leña como fuente de energía (evaluación de las necesidades de leña, evaluación del potencial de producción, preferencias sociales por la leña).

Instalaciones especiales: Una colección de maderas con 100 muestras.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales. Tiene una biblioteca con 50 volúmenes científicos y 200 boletines técnicos.

Vínculos de colaboración: (información no disponible) El Centro otorga asesoría técnica y capacitación superior, media y vocacional. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

CENTRO DE INVESTIGACIONES FORESTALES
DE LA REGION CENTRAL (CIFREC)
Guerrero 38
Apartado Postal 110
56230 Chapingo, Edo. de México Tel. 4-29-05

Situación: Organismo público regional dependiente del Instituto Nacional de Investigaciones Forestales (Avenida Progreso 5, 04110 México, D.F.). Fue creado en 1978 como parte de la política de descentralización del INIF.

Personal: de investigación: 20 (1 con doctorado)
técnico: 13
otro (administrativo|secretarias): 34

Estaciones de campo: 4 centros y 4 áreas experimentales.

Principales campos de actividad:

7 proyectos de investigación.
Manejo de bosques naturales (ensayo sobre cortas de regeneración, ensayos sobre aclareos, estudios fenológicos).
Abastecimiento forestal.
Protección forestal (cuantificación de residuos combustibles, peligro de incendios, quemas controladas, patología y entomología forestal).
Establecimiento y manejo de plantaciones (producción de plantas en vivero, inoculación de simbientes, evaluación de plantaciones).
Desarrollo experimental (tablas de volúmenes).
Diagnóstico y planeación.
Uso múltiple de los recursos forestales.

Instalaciones especiales: -

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines técnicos y divulgativos, conferencias, seminarios y días de demostración. El Centro publica el boletín mensual "CIFREC INFORMA". A través de las oficinas centrales del INIF se hacen las publicaciones siguientes: Boletín Técnico (mensual), Boletín Divulgativo (mensual), Ciencia Forestal (bimestral), notas técnicas, publicaciones especiales y series de apuntes. La biblioteca tiene 723 libros, 1.012 revistas, 149 folletos y 52 tesis.

Vínculos de colaboración: Hay convenios con el Colegio de Postgraduados de Chapingo y con la Universidad Autónoma de Chapingo. En el plano internacional, tiene convenios con el Environmental Research Laboratory. El Centro no es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

DIVISION DE CIENCIAS FORESTALES
UNIVERSIDAD AUTONOMA CHAPINGO
Km. 32 ½ - Carretera México-Texcoco
Apartado Postal 37
56230 Chapingo, Méx. Tel. 585-45-55 Ext. 5342

Situación: Institución universitaria, dependiente de la Universidad Autónoma Chapingo.

Personal: 53 profesores investigadores de tiempo completo y 30 profesores de tiempo parcial
3 técnicos académicos
100 personal administrativo de apoyo

Estaciones de campo: 4

Principales campos de actividad:

En general, economía y manejo forestal; evaluación de recursos forestales y abastecimiento forestal; transformación de productos forestales (industrias forestales); ecología; y silvicultura.

Instalaciones especiales: Plantas piloto de transformación de productos forestales, dos invernaderos y una piscifactoría.

Publicaciones y servicios: De difusión nacional en baja proporción. Tiene una biblioteca a nivel local, principalmente para estudiantes y profesores de la División de Ciencias Forestales.

Vínculos de colaboración: Con instituciones de enseñanza e investigación y con algunas universidades del extranjero (e.g. Purdue University, EE.UU.). No es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

PROGRAMA ACADEMICO INTERDISCIPLINARIO FORESTAL
CENTRO DE GENETICA
COLEGIO DE POSTGRADUADOS
Domicilio Conocido
56230 Chapingo, Edo. de México Tel. 585-0728

Situación: El Programa Académico Interdisciplinario Forestal (PFOR) es parte del Colegio de Postgraduados (Institución de Enseñanza e Investigación en Ciencias Agrícolas), organismo público descentralizado con personalidad jurídica y patrimonio propios, que inició sus actividades el 22 de febrero de 1959. El PFOR inició sus actividades en 1979 con el propósito de fortalecer a las instituciones de enseñanza e investigación forestales del país.

Personal: de enseñnanza e investigación: 8 (4 con doctorado, 4 con Maestría en Ciencias)
técnico: 8 ingenieros agrónomos forestales
otro (administrativo y de apoyo): 4
Adicionalmente, se cuenta con la participación de 12-15 profesores-investigadores de los centros de Botánica, Economía, Edafología, Estadística y Cálculo, Estudios del Desarrollo Rural y Genética, y la de 8 profesores colaboradores de tiempo parcial.

Estaciones de campo: 2 (en Montecillos y Tecámac), así como centros regionales en los estados de Puebla, San Luis Potosí, Veracruz y Tabasco. Ninguna de estas unidades es exclusivamente forestal.

Principales campos de actividad:

Silvicultura y manejo de bosques naturales templados de coníferas, silvicultura tropical (sistemas silvoagropastoriles), plantaciones forestales, genética forestal, economía de recursos forestales, protección forestal y manejo de cuencas hidrográficas.

Instalaciones especiales: Los investigadores y estudiantes del PFOR tienen acceso a invernadores y laboratorios con equipos modernos en otros centros del Colegio como Botánica y Genética. Además, se cuenta en el Colegio con un herbario-hortorio (20,000 muestras), colecciones entomológicas y servicios de cómputo.

Publicaciones y servicios: Los resultados de investigación se difunden desde 1966 en la revista "Agrociencia", publicación oficial de la institución, con cuatro números al año. Desde 1979 se publica anualmente "Avances en la Enseñanza e Investigación", con reportes sobre trabajos en proceso. El Colegio cuenta con un Departamento de Idiomas que imparte cursos de inglés, francés, alemán y español. El Centro de Documentación del Colegio de Postgraduados cuenta con 35.000 volúmenes, recibe 1.700 títulos de publicaciones periódicas en las diversas áreas de las ciencias agropecuarias y forestales, y 42 títulos de índices y compendios bibliográficos. Cuenta con lector de microfichas.

(México)

(Colegio de Postgraduados, Chapingo, cont.)

Vínculos de colaboración: El PFOR mantiene convenios de colaboración científica y tecnológica con el Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (INIFAP), algunas Unidades Industriales de Explotación Forestal de la Subsecretaría Forestal y organismos descentralizados del subsector forestal. El PFOR ha recibido desde 1983 apoyo financiero del Consejo Nacional de Ciencia y Tecnología (CONACYT) para sus programas de investigación y el fortalecimiento del postgrado en ciencias forestales. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

INSTITUTO DE MADERA, CELULOSA Y PAPEL
UNIVERSIDAD DE GUADALAJARA
Apartado Postal 4-120
44400 Guadalajara, Jalisco

Tel. 13-76-59; 13-76-60; 13-76-61
Telex: 0681744

Situación: Centro dedicado a la enseñanza, la investigación y la ingeniería como apoyo a la industria nacional, fortalecido por un Fideicomiso formado por el Consejo Nacional de Ciencia y Tecnología, la Asociación Nacional de Universidades e Institutos de Enseñanza Superior, Gobierno del Estado de Jalisco, y la Universidad de Guadalajara.

Personal: de investigación:18 (6 doctorantes, 12 candidatos a Maestros en Ciencia)
técnico: 9
otro: 40 (administrativo y de servicio)

Estaciones de campo: 1

Principales campos de actividad:

Investigación de aspectos forestales, física y química de madera, celulosa y papel.
Enseñanza.
Información y documentación.
Asesoría a la industria.

Instalaciones especiales: Un bosque escuela; una xiloteca con muestras. Cromatografía líquida, de gas y alta presión. Un laboratorio de pruebas físicas de madera y un laboratorio de pruebas físicas del papel. Planta piloto de madera, planta piloto de celulosa y papel, planta piloto para caolines. Estucadora.

Publicaciones y servicios: Los resultados de las investigaciones se publican en documentos seriados y en revistas nacionales e internacionales. Se ofrecen memorias de cursos impartidos en el Instituto. El Instituto cuenta con una biblioteca especializada, con 3.000 volúmenes de libros y 60.000 fichas bibliográficas con lo más relevante que se ha publicado a nivel mundial en los últimos 15 años; 50 suscripciones a publicaciones periódicas. Servicio de consulta, préstamo externo para personal del Centro, búsquedas bibliográficas y documentación.

Vínculos de colaboración: Se tienen convenios con el Departamento de Intercambio Académico Alemán. Se brinda apoyo a la industria nacional y se mantiene comunicación con centros nacionales y del extranjero. El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

FACULTAD DE SILVICULTURA Y MANEJO DE RECURSOS RENOVABLES
UNIVERSIDAD AUTONOMA DE NUEVO LEON
Carretera Linares - Cd. Victoria Km. 8
Apartado Postal 104
67 700 Linares, Nuevo León

Situación: Institución universitaria dependiente de la Universidad Autónoma de Nuevo León. La Facultad inició en 1981.

Personal: de investigación: 8
docente: 12
técnico: 8
otro (administrativo|secretarias): 2

Estaciones de campo: 2

Principales campos de actividad:

Manejo de bosque templado seco.
Manejo agroforestal y silvopastoral.
Producción de plantas, conservación de suelos, flora y fauna; producción forestal, tecnología y utilización de productos forestales.

Instalaciones especiales: Laboratorio de semillas, entomología, patología forestal; laboratorio de suelos y manejo de cuencas; laboratorio de tecnología de productos forestales; laboratorio de silvicultura; 3 viveros, 1 herbario, 1 Jardín Botánico, Bosque-Escuela.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de un Boletín científico que edita la propia Facultad. La Facultad tiene una biblioteca con 3.000 volúmenes; 50 suscripciones a revistas técnicas.

Vínculos de colaboración: A nivel nacional, colabora con el Departamento Forestal de la Universidad de Chapingo; el Departamento Forestal de la Universidad Autónoma Agraria "Antonio Narro", Saltillo, Coah.; y la Subsecretaría forestal de la SARH, México. A nivel internacional, tiene vínculos de colaboración con GTZ (Alemania); el Departamento Forestal de la Universidad de Oxford (Inglaterra); el Departamento de Botánica de la Universidad de Adelaide (Australia); y la Universidad de Agrosilvicultura de Viena (Austria). La Facultad es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

INSTITUTO DE BIOLOGIA
UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO
Ciudad Universitaria
Apartado Postal 70-233
04510 México, D.F.

Tel. 548-82-07
Telex: 1760155 CICME

Situación: Organismo universitario público creado en 1929, parte de la Universidad Nacional Autónoma de México y supervisado por ella. Fase de crecimiento: 1965-1975.

Personal: de investigación: 74 (53 con doctorado)
técnico: 73
otro (administrativo/oficina): 172

Estaciones de campo: 2

Principales campos de actividad:

Investigación en biosistemática; ecología de poblaciones (ciclos biogeoquímicos, modulación de sistemas forestales, teoría de sistemas mutualistas, coevolución); genética de poblaciones; biología de granos almacenados; biología de sistemas acuáticos.

Instalaciones especiales: Un herbario (40.000 muestras), una colección de maderas (2.000 muestras), con un encargado a tiempo completo. Otros equipos incluyen: cámaras de crecimiento, espectrómetros, una bomba calorimétrica, etc.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales y publicaciones en los Anales del Instituto de Biología y en revistas especializadas. Tiene una biblioteca (25.000 volúmenes y 2.500 títulos de revistas) con un lector de microfichas.

Vínculos de colaboración: (información no disponible) El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

INSTITUTO DE ECOLOGIA, A.C.
Apartado Postal 18-845
11800 México
Tel. 271-04-35; 277-69-60

Situación: Institución creada el 7 de agosto de 1975 con carácter de asociación civil. Por Acuerdo Presidencial del 13 de mayo de 1977 pasó a formar parte del marco sectorial de la Secretaría de Programación y Presupuesto, quedando incluído dentro de la Administración Pública Paraestatal y coordinado por el Consejo Nacional de Ciencia y Tecnología.

Personal: científico: 45 (8 doctores, 13 Maestros en Ciencias y 24 biólogos)
técnico académico: 5 (un Maestro en Ciencias y 4 licenciados)
administrativo|oficina|secretarial|mantenimiento: 28

Estaciones de campo: 2 estaciones de campo y 2 centros regionales.

Principales campos de actividad:

Realizar investigación científica en el área de ecología, investigación, manejo y protección de áreas naturales; establecimiento de reservas de la biósfera; estudios sobre estructura de comunidades animales y vegetales en áreas desérticas, templadas y tropicales de México; estudios florísticos y de vegetación en zonas desérticas, templadas y tropicales; biogeografía y taxonomía biológica; estudios de impacto ambiental. Con relación a estudios forestales, el Instituto de Ecología realiza investigaciones especiales en los siguientes ecosistemas boscosos: i) bosque nesófilo de montaña en la reserva de la biósfera "El Cielo" (Edo. Tamaulipas, Méx.); ii) bosque de pino encino en la reserva de la biosfera de "La Michilia" (Edo. Durango, Méx.).

Publicaciones y servicios: Los resultados de las investigaciones son publicados en libros y en la revista "Acta Zoológica Mexicana" (6 veces al año), editados por el Instituto. Artículos de investigación se publican en revistas de prestigio, conferencias, participaciones en reuniones científicas, informes, películas y audiovisuales. El Instituto tiene una biblioteca especializada en Sistemática y Florística de plantas superiores (Centro Regional del Bajio, Patzcuaro, Mich.).

Vínculos de colaboración: El Instituto colabora con los siguientes centros de investigación de educación superior nacionales: Instituto Politécnico Nacional, Instituto Nacional de Antropología e Historia, Instituto Nacional de Investigaciones Agrícolas, Universidad Autónoma Metropolitana-Xochimilco, Universidad Nacional Autónoma de México, Instituto Nacional de Investigaciones y Recursos Bióticos, Centro de Investigaciones Ecológicas del Sureste, Centro de Investigación Científica y de Educación Superior de Ensenada. Además, colabora con varias dependencias de la Administración Pública y con otras instituciones , grupos o asociaciones nacionales. A nivel internacional, tiene vínculos de colaboración en URSS (Academia de Ciencias de la URSS), Estados Unidos de América (Politécnico del Estado de California, Universidad de Nuevo México, Universidad de Arizona, Universidad de Utah, Jardín Botánico de Nueva York, Universidad de San Diego, California), Francia (ORSTOM - Oficina de Investigaciones Científicas y Técnica de Ultramar, CNRS - Centro Nacional de Investigación Científica, Laboratorio de Entomología del Museo de Historia Natural de París, Universidad F. Ravelais, Tours), España

.../...

(México)

(Instituto de Ecología, México - cont.)

(Instituto de Química Orgánica, Estación Biológica de Doñana), Italia (Universidad de Turín), Inglaterra (Universidad de Bristol), Canadá (Universidad de Toronto, Universidad de Alberta), Guatemala (Universidad del Valle) y Argentina (Consejo Nacional de Investigaciones Científicas y Técnicas de Argentina). El Instituto de Ecología no es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

INSTITUTO NACIONAL DE INVESTIGACIONES FORESTALES,
AGRICOLAS Y PECUARIAS
Insurgentes Sur 694, 9º Piso
México, D.F. Tel. 687-74-40; 687-74-74

Situación: Institución pública, dependiente de y supervisada por la Subsecretaría de Desarrollo y Fomento Agropecuario y Forestal, Secretaría de Agricultura y Recursos Hidráulicos (Avenida Insurgentes Sur 476, 12º piso, México, D.F.), establecida en 1958. Hubo un crecimiento sustancial de recursos humanos y materiales de 1965 a 1976. En el período 1978-1982, el crecimiento fue más acelerado y se inició un proceso de desconcentración de la investigación. Se establecieron 8 centros regionales de investigación, cubriendo todo el país. El 23 de agosto de 1985, por Decreto presidencial, los institutos nacionales de investigaciones agrícolas, forestales y pecuarias se fusionaron en uno solo, quedando así: Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias.

Personal: de investigación y desarrollo: 250 (3 con doctorado)
técnico: 133
de dirección y supervisión: 133
de apoyo administrativo: 439

Estaciones de campo: 28 centros experimentales, áreas experimentales o campos experimentales.

Principales campos de actividad: Manejo de bosques naturales (silvicultura y ordenación);

Manejo de bosques naturales (silvicultura y ordenación).
Plantaciones forestales (sanidad forestal, ecología, botánica, incendios forestales).
Uso multiple de los recursos forestales (domesticación y cultivo, sistemas agrosilvícolas, manejo de cuencas, dasonomía urbana).
Fauna silvestre.
Diagnóstico y planeación.
Abastecimiento (extracción, diseño y construcción de caminos).
Productos forestales.
Evaluación de recursos naturales.

Instalaciones especiales: Un herbario y una colección de maderas con encargado a tiempo completo. El equipo de laboratorio incluye: cromatografía gaseosa, un espectrofotómetro de absorción atómica, un faxitrón para rayos X, estufas de germinación, equipo para pruebas fisico-mecánicas de la madera, estufas de secado, un aserradero, etc.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de boletines divulgativos, técnicos, Revista Ciencia Forestal, y seminarios sobre investigación. Se organizan también días de demostración y visitas de estudiantes y profesionales, y hay un servicio social de pasantes. El Instituto cuenta con un Centro de Documentación Científica y Tecnológica (área Forestal) con 21.865 volúmenes de libros y 724 títulos de publicaciones periódicas por intercambio y suscripción. El acervo total es 89.321, contando el material

(México)

(Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, México, D.F., cont.)

bibliográfico de las bibliotecas de los centros, campos y áreas experimentales que cuenta el Instituto en todo el país. El Centro de Documentación Científica y Tecnológica es depositario de las publicaciones que edita el Instituto Interamericano de Cooperación para la Agricultura (IICA), San José, Costa Rica.

Vínculos de colaboración: En el plano nacional, hay vínculos de colaboración con otras instituciones y universidades nacionales. En el plano internacional, hay convenios con FAO|CIRF (recursos genéticos para zonas áridas y semiáridas); la Universidad de Carolina del Norte, USA (preservación y difusión de material de alto valor genético); la Universidad de Arizona, USA (aprovechamiento de especies halófitas); y con la Estación Experimental de las Montañas Rocallosas, USA (trabajos conjuntos de manejo de cuencas). El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

ESCUELA DE INGENIEROS EN TECNOLOGIA DE LA MADERA
DIVISION DE CIENCIAS E INGENIERIA
UNIVERSIDAD MICHOACANA DE SAN NICOLAS DE HIDALGO
Edificio A, planta baja, Ciudad Universitaria — Tel. 2-83-79
58030 Morelia, Mich. — Telegramas:

Situación: Institución universitaria, parte integrante de la Universidad Michoacana de San Nicolás de Hidalgo, creada en 1973.

Personal: (información no disponible)

Estaciones de campo: —

Principales campos de actividad:

Industrialización de la madera, tanto en lo fisico-mecánico como en lo químico.
Investigación socioeconómica sobre producción y utilización de leña como fuente de energía (preferencias sociales, evaluación del potencial de la producción de leña, métodos de extensión).
Investigación y tecnología industriales (carbón vegetal, preservación de la madera, utilización de los residuos).
Derivados de la madera.
Investigación sobre el medio ambiente.

Instalaciones especiales: Una colección de maderas con 154 muestras con corte tangencial, corte longitudinal y corte radial. Otras instalaciones incluyen: cromatografía gaseosa y una bomba calorimétrica.

Publicaciones y servicios: (información no disponible). Hay un lector de microfichas.

Vínculos de colaboración: (información no disponible). Es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

CENTRO DE INVESTIGACIONES FORESTALES
DEL NORESTE (CIFNE)
Othon de Mendizabal 2035
Apartado 150
25260 Saltillo, Coah.

Tel. 2-14-40; 3-73-66
Telegramas:

Situación: Institución pública, parte integrante de la Subsecretaría Forestal, creada en 1978 y supervisada por el Instituto Nacional de Investigaciones Forestales (Avenida Progreso 5, 04110 México, D.F.).

Personal: (información no disponible)

Estaciones de campo: 3 centros experimentales.

Principales campos de actividad:

Plantaciones forestales.
Uso múltiple de los recursos forestales.
Protección forestal.
Economía forestal.
Desarrollo experimental.
Producción y utilización de leña como fuente de energía: investigación socio-económica (evaluación de las necesidades, evaluación del potencial de producción); silvicultura de especies de leña (selección de especies y procedencias, investigación de semillas, lucha contra incendios, estudios sobre el crecimiento y los rendimientos).

Instalaciones especiales: Una colección de maderas con 24 muestras.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de boletines, días de demostración, conferencias, seminarios, y publicaciones en revistas tales como "Ciencia Forestal" y en boletines técnicos mensuales y bimestrales. Tiene una biblioteca con 2.000 volúmenes científicos y técnicos.

Vínculos de colaboración: Hay vínculos de colaboración con el Instituto Nacional de Investigación Agrícola y con el Instituto de Investigación Pecuaria. En el plano internacional, tiene vínculos con el Banco Mundial y la FAO. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

DEPARTAMENTO FORESTAL
UNIVERSIDAD AUTONOMA AGRARIA "ANTONIO NARRO"
Buenavista
25345 Saltillo, Coah.

Tel. 4-31-00, Ext. 317
Telex: 381123 CIZAME

Situación: -

Personal: 4 Maestros en Ciencias (2 ingenieros forestales y 2 ingenieros generales)
1 Maestro en Ciencias estudiando doctorado (biólogo)
5 Maestros con grado de licenciatura (2 de ellos por hora)
3 pasantes (2 biólogos y 1 ingeniero forestal)

Estaciones de campo: 4

Principales campos de actividad:

Docencia, investigación y desarrollo.

Instalaciones especiales: Laboratorios, viveros, y aulas para el estudiantado.

Publicaciones y servicios: Los trabajos de investigación se publican en "Avances de Investigación" de la propia Universidad y en informes al Consejo Nacional de Ciencia y Tecnología, cuando los trabajos los patrocina dicho organismo. Se dispone de la biblioteca general de la Universidad.

Vínculos de colaboración: El Departamento colabora con el INIF (Instituto Nacional de Investigaciones Forestales), la División Forestal de la Universidad Autónoma de Chapingo, la Facultad de Silvicultura de la Universidad Autónoma de Nuevo León, y con ejidos y comunidades del área de influencia de la Universidad. El Departamento es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

CENTRO DE INVESTIGACIONES ECOLOGICAS DEL SURESTE (CIES)
Carretera Panamericana y Periférico Sur s|n
Apartado Postal 63
29290 San Cristóbal de Las Casas, Chiapas Tel. 8-18-83; 8-18-84

Situación: El CIES es un organismo federal descentralizado creado en 1974 por Decreto Presidencial. Su sede se ubica en la ciudad de San Cristóbal de Las Casas, Chiapas, y cuenta con una subsede en la ciudad de Tapachula, Chiapas. Su ámbito de acción es el Sureste del País.

Personal: En el centro laboral 20 investigadores, 25 asistentes de investigación y 34 técnicos, además del personal de apoyo.

Estaciones de campo: 1 jardín botánico.

Principales campos de actividad:

Las actividades del CIES se agrupan fundamentalmente en tres áreas: Agroecológica, Biomédica y Socioeconómica, que estudian los diversos aspectos de la integración del hombre a su ambiente relacionados con las ciencias de la salud, agropecuarias, silvícolas y socioeconómicas, así como la preservación, incremento y aprovechamiento adecuado de los recursos naturales.

Instalaciones especiales: Un herbario, un jardín botánico, laboratorios de Ecología, de Producción Silvoagropecuaria, de Agriecología, laboratorios biomédicos y un Centro de Cómputo.

Publicaciones y servicios: El Departamento Editorial publica informes académicos (anualmente), econoticias (revista de difusión, cuatrimestralmente), una serie de documentos y publicaciones especiales. La biblioteca cuenta con un acervo multidisciplinario integrado por 16.178 libros; una hemeroteca compuesta por 365 colecciones y un archivo vertical que contiene 7.109 artículos. En la Unidad Cultural del CIES se encuentran la biblioteca pública "José Weber", una mapoteca y un museo.

Vínculos de colaboración: El Centro mantiene diversos vínculos de colaboración con instituciones nacionales e internacionales. Entre otras se cuentan: la Organización Mundial de la Salud, la Organización Panamericana de la Salud, el 'Laboratoire d'Ethologie et de Sociobiologie' de la Universidad de Paris XIII, la Universidad Nacional Autónoma de México, la Universidad Autónoma de Chapingo, y la Universidad Autónoma Metropolitana. El Centro no es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

CENTRO DE INVESTIGACIONES FORESTALES
DE OCCIDENTE (CIFO)
Avenida Latinoamericana y Paseo Lázaro Cárdenas s|n
Apartado Postal 128 Tel. 2-09-73
6000 Uruapán, Mich. Telegramas:

Situación: Organismo público creado en 1978, dependiente del Instituto Nacional de Investigaciones Forestales (Avenida Progreso 5, 04110 México, D.F.) y supervisado por el mismo.

Personal: de investigación: 32
técnico: 24
otro (administrativo|oficina): 35

Estaciones de campo: 4

Principales campos de actividad:

Investigación científica, tecnología en las áreas de inventarios ecológicos, silvicultura y manejo, protección, abastecimiento forestal, uso múltiple, plantaciones e industrias.
Asesoría a organismos públicos y privados.
Capacitación técnica a diversos niveles.

Instalaciones especiales: Un herbario con 2.970 muestras y una colección de maderas de 70 muestras, con un encargado a tiempo completo. Los equipos de laboratorio incluyen: fotoflamómetro, espectrofotómetro, centrífuga, autoclave, incubadora, micrótomo, estufa, baño maria, agitador mecánico, bomba de vacío Kjeldanl.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines técnicos y conferencias. El Centro tiene una biblioteca con 3.500 volúmenes y 4 suscripciones internacionales de estaciones experimentales.

Vínculos de colaboración: En el plano nacional, se establecen convenios de colaboración con otros organismos e instituciones con la sanción del INIF. No hay vínculos internacionales. El Centro es miembro de IUFRO.

Idioma oficial de trabajo: español.

MEXICO

INSTITUTO NACIONAL DE INVESTIGACIONES
SOBRE RECURSOS BIOTICOS (INIREB)
Km. 2.5 Antigua Carretera a Coatepec
Apartado Postal 63
91000 Xalapa, Ver.

Tel. 7-50-84
Telex: 015542 INRBME

Situación: Organismo público, creado en 1975 con el objetivo de estudiar los recursos naturales renovables del Estado de Veracruz. En marzo de 1979, su campo de acción fue ampliado a nivel nacional.

Personal: de investigación y desarrollo: 77 (19 con doctorado)
técnico: 8
otro (administrativo|secretarias): 6

Estaciones de campo: 1

Principales campos de actividad:

Inventario de los recursos vegetales y animales; especies amenazadas y en peligro de extinción; protección de habitats y reservas; uso alternativo del suelo y desarrollo rural; ecología forestal; tecnología, preservación y clasificación de maderas; ecología de poblaciones de árboles.

Instalaciones especiales: Herbario (100.000 ejemplares vasculares, 23.000 ejemplares hongos, 2.000 musgos); xiloteca con 1.450 especies; laboratorios de aguas, suelos, bromatología; aceites esenciales; planta piloto producción hongos comestibles; jardín botánico.

Publicaciones y servicios: "Biótica" (revista trimensual); "La Madera y su Uso en la Construcción" (revista con frecuencia irregular); Notas Técnicas (sobre uso de madera, revista con frecuencia irregular); "INIREB INFORMA" (información sobre recursos bióticos potenciales, 8 al año); serie cuadernos de divulgación INIREB, y temas diversos de orientación técnica (frecuencia irregular). El Instituto cuenta con un centro de información documental (con 16.000 volúmenes relacionados con Ecología y Recursos Bióticos; 210 suscripciones a revistas técnicas. Servicio a Bancos de Información (SECOBI).

Vínculos de colaboración: Tiene vínculos de colaboración con la Secretaría de Desarrollo Urbano y Ecología; la Secretaría de Agricultura y Recursos Hidráulicos; y el Fondo de Desarrollo y Educación Rural. En el plano internacional, colabora con la "School of Forestry and Environmental Studies", Yale University (U.S.A.); el World Wildlife Fund International, y ORSTOM (Francia). El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

PANAMA

DIRECCION DE RECURSOS NATURALES RENOVABLES (RENARE)
DEPARTAMENTO DE INVESTIGACION
Apartado Postal 2016
Paraíso - Ancón
Panamá, Rep. de Panamá Tel. 324898; 324896

Situación: Institución dentro del Ministerio de Desarrollo Agropecuario, creada en 1972.

Personal: 23 (5 con estudios de postgrado)

Estaciones de campo: (información no disponible)

Principales campos de actividad:

Silvicultura de especies maderables y leña, manejo de parques y reservas, cuencas hidrográficas.

Aprovechamientos forestales y concesiones.

Anatomía de la madera y propiedades.

Banco de semillas.

Meteorología.

Estudios socioeconómicos.

Instalaciones especiales: Laboratorio de semillas. Equipo de meteorología. Herbario con cerca de 500 muestras. Xiloteca con muestra de más de 100 especies maderables. Microscopios, estereocopios, bomba calorimétrica, prensa, taller de trabajabilidad.

Publicaciones y servicios: Boletines técnicos, documentos de trabajo. RENARE mantiene una biblioteca.

Vínculos de colaboración: RENARE colabora con el Ministerio de Desarrollo Agropecuario, el Ministerio de Planificación y Política Económica, el Instituto de Investigaciones Agropecuarios (IDIAP), el Centro Agronómico Tropical de Investigaciones y Enseñanza (CATIE), el Instituto Smithsoniano (STRI), la Agencia Internacional para el Desarrollo (USAID), PNUD|FAO, entre otras. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

PARAGUAY

CENTRO FORESTAL ALTO PARANA
SECCION INVESTIGACION FORESTAL
Colonia Pdte. Stroessner
Km. 12 Monday

Dirección postal:
Proyecto Forestal COSUDE
Embajada Suiza
Casilla 552 Tel. 48022
Asunción Telex: 123 PY KRAUCHSRTS

Situación: Institución pública creada en 1978 con el apoyo de la Cooperación Suiza de Desarrollo (COSUDE), supervisada por el Ministerio de Agricultura y Ganadería a través del Servicio Forestal Nacional y la Cooperación Suiza de Desarrollo.

Personal: de investigación: 6 (con doctorado, 3 extranjeros)
técnico: 14 (10 extranjeros)
otro (secretaria): 1

Estaciones de campo: 10 estaciones de campo denominadas Núcleos de Extensión Agroforestal.

Principales campos de actividad:

Investigación forestal aplicada, con énfasis en el comportamiento silvicultural de las especies nativas y exóticas.
Ensayos agroforestales.
Extensión agroforestal (apoyo al programa del SNF y COSUDE).
Apoyo al inventario biológico nacional.

Instalaciones especiales: Un herbario con 1.000 muestras. Los equipos de laboratorio comprenden un microscopio y una germinadora.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de fichas técnicas. El Centro tiene una biblioteca con 2.000 volúmenes y 4 revistas técnicas.

Vínculos de colaboración: Tiene vínculos con el Servicio de Extensión Agrícola y Ganadera y con la Universidad Nacional. En el plano internacional, hay vínculos con CATIE, Turrialba, Costa Rica, el Jardín Botánico, y el Museo de Historia Nacional de Ginebra, Suiza. El Centro no es miembro de IUFRO.

Idioma oficial de trabajo: español.

PARAGUAY

INSTITUTO NACIONAL DE TECNOLOGIA Y NORMALIZACION (INTN)
Av. Gral. Artigo y Gral. Roa
Casilla 967
Asunción

Tel. 290-160; 290-266; 290-277
Telegramas: INTN
Telex: 306 PY

Situación: Institución gubernamental creada en 1963, dependiente del Ministerio de Industria y Comercio (Av. España y Estados Unidos, Asunción).

Personal: de investigación y desarrollo: 5 (1 Ph.D)
técnico: 2
otro: 1

Estaciones de campo: -

Principales campos de actividad:

Tecnología de productos forestales; secado de maderas; preservación; entomología forestal; asistencia técnica a la industria.

Instalaciones especiales: Una colección de muestras de maderas nativas (1.100 sp.) y una colección de insectos con muestras de maderas dañadas (70 sp. de insectos). El equipo de laboratorio incluye una máquina de ensayo universal, un horno de secado, una cámara de climatización, balanzas de precisión, una planta piloto de impregnación, máquinas de carpintería, una máquina copiadora, un pirómetro digital portátil, un autoclave y equipos de campo (motosierras y otros).

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, boletines técnicos y conferencias. El Instituto posee una biblioteca con 3.000 volúmenes y suscripciones internacionales con algunas estaciones experimentales. Existen también servicios de información y referencia, préstamos de textos y documentos científicos y técnicos en español, inglés, francés y portugués.

Vínculos de colaboración: En el plano nacional, se establecen convenios de colaboración con otros organismos e instituciones. En el plano internacional tiene vínculos con el Tropical Development and Research Institute de Londres, con ANSI de EE.UU., IRAM, INTA, INTI de Argentina, ABNT de Brasil, CSIRO de Australia, FAO, CONAF de Chile, IPT del Brasil, CIID de Canadá, y el PNUD. El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

PERU

INSTITUTO DE INVESTIGACIONES DE LA AMAZONIA PERUANA (IIAP)
Av. Abelardo Quiñones, Km. 2,5
Apartado 784
Iquitos Tel. 232925

Situación: Institución constituída en cumplimiento de la Ley N° 23374 del 30 de diciembre de 1981. Es un organismo del Sector Público Nacional que posee personería jurídica de derecho público interno, con autonomía económica y administrativa. Tiene como finalidad realizar el inventario, la investigación, la evaluación y el control de los recursos naturales en el ámbito de la Cuenca Amazónica.

Personal: de investigación: 24; biólogos: 9; forestales: 3; agrónomos: 6; químicos: 3; sociólogos: 1; pesqueros: 2

técnico: 5
administrativo: 75

Estaciones de campo: 2 centros de investigación (Jenaro Herrera y Alpahuayo)
5 filiales (Pucallpa, Tarapoto, Madre de Dios, Tingo María y Amazonas.

Principales campos de actividad:

Investigación en los campos:

- suelos (suelos aluviales, agroforestería)
- flora (flora amazónica)
- fauna (manejo fauna silvestre)
- forestal (silvicultura, tecnología de la madera y manejo forestal)
- hidrobiológica (acuicultura)
- medio ambiente (conservación recursos naturales)
- socioeconomía (relacionada al uso y conservación).

Servicios de apoyo a la investigación:

- formación de recursos humanos
- informática científica y tecnológica
- difusión resultados investigación
- cooperación técnica internacional.

Instalaciones especiales: Un arboretum (CIJH), un herbario (CIJH), un laboratorio de suelos (por instalar), una planta hidrobiológica, un gabinete de cartografía, un laboratorio de fotointerpretación. En forma complementaria se utiliza la capacidad instalada de las instituciones cooperantes en la ejecución de los proyectos de investigación por convenios.

Publicaciones y servicios: Los resultados de la investigación se difunden a través de: producción de videos y difusión a través de la televisión y centros de capacitación rural; publicación de boletines de información técnica; publicación de los trabajos de investigación; la Revista Científica y Tecnológica de la Amazonía, y seminarios de investigación. El Instituto cuenta con una biblioteca especializada con 5.000 volúmenes, títulos, publicaciones periódicas (150); 32 suscripciones a revistas técnicas. El acervo total de la biblioteca es de 2.500 títulos, a cargo de un bibliotecario profesional.

.../...

(IIAP, Iquitos, cont.) (Perú)

Vínculos de colaboración: A nivel nacional, se tiene vínculos de colaboración para la ejecución de proyectos de investigación mediante convenios con las siguientes entidades: el Instituto Nacional Forestal y Fauna (INFOR); el Instituto Nacional de Investigación y Promoción Agropecuaria (INIPA); el Instituto Veterinario de Investigaciones Tropicales y de Altura (IVITA); el Instituto del Mar del Perú (IMARPE); la Universidad Nacional de la Amazonía Peruana (UNAP), Iquitos; la Universidad Nacional de Ucayali (UNU); el Instituto de Medicina Tropical de la Universidad Nacional de San Marcos (UNMSM|IMT); el Instituto Nacional de Investigación del Transporte (INAIT); y la Universidad Nacional de Ingenieria (UNI). A nivel internacional, se tiene convenios para el desarrollo de la investigación con las siguientes instituciones: el Gobierno de la Confederación Suiza (COTESU)(manejo de bosques y agroforestería); el Conservatorio y Jardín Botánico de la Ciudad de Ginebra e Intercoopération (CJBG-INT) (flora amazónica); el Instituto de Botánica Económica del Jardín Botánico de Nueva York (frutales nativos); l'Office de la Rechèrche Scientifique et Technique d'Outre-Mer (ORSTOM) (silvigénesis y dinámica de la vegetación); y el Instituto Nacional de Pesquisa Amazónica (INPA), Manaus. El Instituto no es miembro de IUFRO.

Idioma oficial de trabajo: español.

PERU

INSTITUTO NACIONAL FORESTAL Y DE FAUNA
DIRECCION DE INVESTIGACION FORESTAL Y DE FAUNA
Natalio Sánchez 220
Apartado Postal 11578
Lima 11 Tel. 318417

Situación: Institución pública creada en 1974, dependiente del Ministerio de Agricultura.

Personal: de investigación: 20 (5 con doctorado, 10 extranjeros)
técnico: 10
otro (administrativo|secretarias): 24

Estaciones de campo: 5

Principales campos de actividad:

Silvicultura - Ecología - Tecnología de la Madera.
Viviendas de Madera - Agroforestería.
En el campo de la investigación sobre la producción y la utilización de la leña: investigación socioeconómica (evaluación del potencial de producción, aspectos institucionales, aspectos económicos); silvicultura de especies para leña (semillas, métodos de silvicultura, plagas y enfermedades, árboles de aplicación múltiple, crecimiento y rendimiento, rotaciones); investigación y tecnología industriales; investigación sobre el medio ambiente.

Instalaciones especiales: Un herbario y una colección de maderas, con encargado a tiempo completo. Los equipos de laboratorio son de rutina.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, conferencias, seminarios y coloquios, y eventuales publicaciones en revistas. La biblioteca está en vías de organización.

Vínculos de colaboración: Tiene vínculos con el Instituto de Investigación de la Amazonía Peruana (proyectos conjuntos) y con el CORDE - Ucayali (vínculos financieros). En el plano internacional, hay vínculos de colaboración con la FAO, con Bélgica, Canadá, Suiza, Japón y el Pacto Andino. El instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

PERU

PROYECTO ESPECIAL "UTILIZACION RACIONAL DE LA VICUÑA"
INSTITUTO NACIONAL FORESTAL Y DE FAUNA
Av. Santa Cruz 734
Lima - 11 Tel. 235833

Situación: Proyecto Especial del Instituto Nacional Forestal y de Fauna, destinado al manejo e investigación de la vicuña a nivel nacional.

Personal: de investigación: 4
técnico para manejo: 40
de apoyo administrativo: 40

Estaciones de campo: 2 de investigación, 5 de manejo.

Principales campos de actividad:

Investigación biológica básica de la vicuña y el ecosistema puna en general.
Investigación aplicada al manejo de la especie: captura, esquila, traslados, censos, transformación de fibra.
Producción de fibra, carne y productos derivados de la vicuña.

Instalaciones especiales: En la Reserva Nacional de Pampa Galeras se cuenta con un laboratorio para investigaciones biológicas, sistemas de captura y esquila para vicuñas y un Museo de sitio en formación. En Cala Cala se cuenta con un sistema de corrales para captura y manipulación de vicuñas (rotación de pastoreo).

Publicaciones y servicios: Los resultados de los trabajos se reportan en informes, en los Planes de Manejo (anuales) y eventualmente en revistas. En la Sede Central se cuenta con una biblioteca en formación, específicamente relacionada al Manejo e Investigación en Vicuña.

Vínculos de colaboración: El Proyecto colabora con las Corporaciones Departamentales de Desarrollo y con la Universidad Agraria "La Molina". A través del Convenio Multinacional para la Conservación y Manejo de la Vicuña, se tiene relación con el INFOL (Bolivia), CONAF (Chile) y las entidades responsables del Manejo de la Vicuña de Ecuador y Argentina. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

SURINAME

RESEARCH DIVISION
SURINAME FOREST SERVICE
Cornelis Jongbawstraat, 10
P.O. Box 436 Tel. 76118
Paramaribo Cables:

Status: A public institution founded in 1947 as an integral unit of the Suriname Forest Service, supervised by the Ministry of Agriculture, Animal Husbandry, Fishery and Forestry (Cultuurtuinlaan, P.O. Box 1807, Paramaribo, tel. 74177).

Staff: 85 research officers (1 Ph.D, 1 expatriate)
4 technicians
9 other (administrative/secretarial)

Field stations: (information not available)

Principal fields of activity:

Natural regeneration.
Special trials; thinning trials; spacing trials.
Wood technology.
Nature conservation.

Special facilities: A herbarium with 300 specimens.

Publications and services: Research results are published in annual reports and technical reports and are disseminated through research colloquia. The Division maintains a library with some 2,000 volumes; 50 subscriptions to international technical journals.

Cooperation: The Division maintains formal links with EMBRAPA, Brazil, for training and exchange of information. It is a member of IUFRO.

Official working language: Dutch
Official working language for international correspondence: English.

TRINIDAD AND TOBAGO

COMMONWEALTH INSTITUTE OF BIOLOGICAL CONTROL (CIBC)
Gordon Street
Curepe, Trinidad, W.I.

Tel. 662/4173
Cables: BIOCONTROL TRINIDAD
Telex: 24438 CARIRI WG

Status: The Commonwealth Institute of Biological Control was set up in 1927 and is one of four institutes comprising the scientific service of the Commonwealth Agricultural Bureaux which have been providing agricultural services worldwide for over 55 years. The station in Trinidad was set up in 1946.

Staff: 2 entomologists
1 insect/plant pathologist
3 technicians

Field stations: (information not available)

Principal fields of activity:

Biological control of insect pests and diseases of tropical forests and forest weeds.

Training in biological control techniques.

Special facilities: Specialized insectaria for breeding parasites and predators of plant pests and insects destroying weeds. The laboratory is well equipped for biological studies and population interaction. There is an insect collection of over 5,000 species from the Caribbean and Latin America.

Publications and services: Research results are included in special annual reports as well as in the annual reports of the Institute and are published as papers in various specialized international journals. The Institute's Information Section, based in the U.K., publishes a specialized quarterly journal entitled "Biocontrol News and Information (BNI)" which contains news of interest to the tropics, review articles and abstracts of publications regarding biocontrol. The Institute has a fairly large library (over 2000 books and over 20,000 reprints) and subscribes to 51 serial journals.

Cooperation: Formal cooperative links exist with various universities and with regional and international organizations. Laboratory facilities as well as a guest room are available for visiting scientists. The Institute is not a member of IUFRO.

Official working language: English.

TRINIDAD AND TOBAGO

FORESTRY DIVISION
(Research Section)
Long Circular Road
Private Bage 30
Port-of-Spain, Trinidad, W.I.

Status: A public institution within the Ministry of Agriculture, Lands and Food Production Unit formalized in the 1950's to provide services to the Forestry Division through tropical forestry research. Research is being carried out within the Division by (1) the Research Section (forestry research), (2) the Northern Range Reafforestation Project (watershed research), (3) the Wildlife Section (wildlife research), and (4) the Forest Resource Inventory and Management Section (management research).

Staff: 2 research officers
9 technicians
2 secretaries

Field stations: 2

Principal fields of activity:

Species and provenance trials.
Tree improvement.
Nursery.
Silviculture.
Forest mensuration.
Forest protection.
Population dynamics of wildlife.
Watershed research.

Special facilities: Numerous equipment, seed dryer and micro-computer.

Publications and services: Research results are published in annual reports and technical papers issued from time to time. The Division's library (over 5,000 volumes) is administered directly by the Research Section.

Cooperation: The Research Section maintains formal and informal links with many national and international institutions. The Division is a member of IUFRO.

Official working language: English.

URUGUAY

DEPARTAMENTO FORESTAL
FACULTAD DE AGRONOMIA
UNIVERSIDAD DE LA REPUBLICA
Avenida E. Garzón 780
Montevideo

Tel. 397191|2|3|4|5, Int. 62

Situación: Institución universitaria. Unica institución de enseñanza forestal a nivel superior.

Personal: Docentes: 19 (2 con doctorado)
administrativo: 2
de campo: 6

Estaciones de campo: 1

Principales campos de actividad:

Mejoramiento genético, producción de semillas, protección, tecnología de la madera, flora indígena, parques nacionales y áreas silvestres.

Instalaciones especiales: 2 cámaras cultivo in vitro, instalaciones para producción de semillas, un laboratorio de análisis de semillas, un herbario, una xiloteca, y un taller de tecnología de maderas.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, publicaciones en boletines y revistas técnicas (especialmente el Boletín de la Facultad de Agronomía) y conferencias sobre investigación. Venta de semilla mejorada, análisis de semillas, identificación de maderas, docencia e investigación. Tiene una biblioteca, compartida con la Facultad de Agronomía.

Vínculos de colaboración: Existen convenios de colaboración con instituciones estatales y empresas privadas. El Departamento es miembro de IUFRO.

Idioma oficial de trabajo: español.

URUGUAY

DIRECCION FORESTAL
MINISTERIO DE AGRICULTURA Y PESCA
Maldonado 1276 Tel. 98.28.75
Montevideo Telegramas:

Situación: Institución pública, parte integrante del Ministerio de Agricultura y Pesca. Instaurada en 1966 sobre las bases del anterior Servicio Forestal, con más amplias atribuciones y responsabilidades.

Personal: de investigación y desarrollo: 10
técnico: 6
otro (administrativo|secretarias): 6

Estaciones de campo: 2

Principales campos de actividad:

Calificación de bosques existentes.
Promoción y desarrollo de la actividad forestal (investigación, extensión, asistencia técnica).
Estudios económicos (planes, estudios de costos, precios y mercados).
Administración y manejo del patrimonio del Estado.
Investigación socioeconómica sobre producción y utilización de leña como fuente de energía (evaluación del potencial de producción, aspectos económicos de producción).
Silvicultura de especies de leña (semillas, sistemas de producción, inventario de recursos, estudio de crecimiento y de rendimientos, introducción de especies y procedencia).
Investigación y tecnología industriales (anatomía y preservación de maderas, producción de carbón vegetal).

Instalaciones especiales: Una colección de maderas con 1.290 muestras. Los equipos de laboratorio incluyen microscopios y balanzas.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de publicaciones aperiódicas de divulgación y coloquios sobre investigación. Tiene una biblioteca con 1.300 libros y folletos; 6 suscripciones a revistas técnicas.

Vínculos de colaboración: Tiene vínculos de colaboración con la Facultad de Agronomia; la Dirección de Suelos y Fertilizantes, Ministerio de Agricultura; la Dirección de Sanidad Vegetal, Ministerio de Agricultura; y el Jardín Botánico. Hay convenios con el Servicio Forestal de Chile (CONAF) y con instituciones en Francia y con la FAO. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

VENEZUELA

DIRECCCION GENERAL DE INFORMACION
E INVESTIGACION DEL AMBIENTE
MINISTERIO DEL AMBIENTE Y DE LOS RECURSOS
NATURALES RENOVABLES
Esquina Camejo, Edif. Camejo Mezzanina
Caracas

Tel. (02) 408-18-21; 545-26-87
Telex: 21017

Situación: -

Personal: 6 ingenieros forestales
1 perito forestal

Estaciones de campo: 2

Principales campos de actividad:

Supervisión y ejecución de Proyectos de Investigación Forestal con fines de ordenación y manejo de bosques.

Levantamiento de vegetación con fines de ordenación y uso.

Instalaciones especiales: Un Herbario Regional y una Estación de Semillas Forestales.

Publicaciones y servicios: Diferentes publicaciones sobre las formaciones vegetales existentes en el país, sus características y posibilidades de manejo. Hay una biblioteca en la Dirección de Suelos, Vegetación y Fauna.

Vínculos de colaboración: La Dirección colabora con el Comité Forestal Latino-Americano, CITES y la Universidad de los Andes, Mérida. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

VENEZUELA

INSTITUTO FORESTAL LATINOAMERICANO (IFLA)
Avenida Los Chorros, FRC
Apartado Postal 36
5101-A Mérida

Tel. 074|440535
Telegramas: IFLA MERIDA
Telex: 74104 CIDIAT

Situación: Fundación autónoma, sin fines de lucro, creada por el Gobierno de Venezuela para América Latina.

Personal: 5 profesionales (investigadores)
4 de apoyo
2 obreros

Estaciones de campo: ninguna

Principales campos de actividad:

Investigación tecnológica (recursos y productos forestales tropicales).
Investigación de mercado (productos forestales).
Información (recursos y productos forestales).
Cursos cortos y seminarios.

Instalaciones especiales: ninguna

Publicaciones y servicios: Publica la Revista Forestal Latinoamericana (trimestral) y la Bibliografía Forestal Latinoamericana (trimestral). Mantiene una biblioteca con aprox. 5.000 títulos de bibliografía forestal latinoamericana. Se promueve la creación de una Red Latinoamericana para el sector forestal.

Vínculos de colaboración: Organismo de adscripción: Ministerio del Ambiente de Venezuela. El Instituto es miembro de IUFRO.

Idioma oficial de trabajo: español.

VENEZUELA

COMPAÑIA NACIONAL DE REFORESTACION
GERENCIA DE PLANIFICACION E INVESTIGACIONES
Apartado Postal 93 Tel. 071|64947
Valera Telegramas:

Situación: Empresa pública del Estado Venezolano, creada en agosto de 1975 con responsabilidad jurídica y patrimonio propio. Su fin primordial es el de realizar planes de reforestación para organismos públicos y privados.

Personal: de investigación: 5
técnico: 2
otro (no hay personal con dedicación completa)

Estaciones de campo: 1

Principales campos de actividad:

Reforestación en gran escala con fines industriales.
Desarrollo de programas forestales de contenido social.
Desarrollo y participación en la formación de empresas mixtas forestales.
Desarrollo de programas de investigación forestal en: producción de plantas, técnicas de plantación y mejoramiento genético.

Instalaciones especiales: Un laboratorio de suelos y un banco de semillas.

Publicaciones y servicios: Los resultados de la investigación se difunden por medio de informes anuales, monografías, publicaciones especiales y publicaciones en la revista de CONARE "Venezuela Forestal". Tiene un biblioteca con 5.000 volúmenes; 25 suscripciones a revistas técnicas.

Vínculos de colaboración: Tiene vínculos con universidades e institutos tecnológicos (pasantías de estudiantes, cursos de capacitación y entrenamiento) y con otros institutos (asesorías sobre temas forestales específicos). La empresa intercambia informaciones con instituciones internacionales. No es miembro de IUFRO.

Idioma oficial de trabajo: español.

FRENCH OVERSEAS TERRITORIES
TERRITOIRES FRANÇAIS D'OUTREMER
TERRITORIOS FRANCESES DE ULTRAMAR

FRENCH GUYANA

CENTRE TECHNIQUE FORESTIER TROPICAL (CTFT)
CENTRE DE GUYANE
B.P. 701
97387 Kourou, Guyane française

Tél. (594) 32.04.30
Télex: CETEFO 910323 FG

Statut: Département forestier du Centre de Coopération Internationale en Recherche Agronomique pour le Développement (C.I.R.A.D.). Etablissement public français.

Effectifs: 6 chercheurs (avec doctorat ou diplôme équivalent)
3 techniciens
22 autres (employés administratifs et personnel d'exécution)

Stations de recherche sur le terrain: 2

Principaux domaines d'activité:

Technologie du bois.
Sylviculture (en forêt artificielle et naturelle)
Conservation des sols.
Développement forestier, expertises et formation.

Installations spéciales: un herbier forestier (485 échantillons) et une xylothèque (1.250 échantillons); laboratoires (physique et mécanique des bois; entomologie et mycologie); ateliers et séchoirs à bois.

Publications et services: Le Centre publie les résultats de la recherche dans "Bois et Forêts des Tropiques (revue du CTFT, Nogent-sur-Marne, France), dans les rapports annuels d'activités et dans les notes internes. Réproduction et échanges de tous documents disponibles sur demande. Participation à colloques et congrès spécialisés. Le Centre dispose d'une bibliothèque avec 3.350 volumes; 11 abonnements à des revues techniques internationales.

Coopération: Le Centre maintient des relations de collaboration avec l'INRA (France), ORSTOM (France), CTB (France), le Museum National d'Histoire Naturelle (France), CNRS (France), INPA, Manaus (Brésil), CELOS (Suriname) et avec les Centres CTFT de Côte-d'Ivoire et du Congo. Il est membre de l'IUFRO.

Langue officielle de travail: français.

FRENCH GUYANA

STATION DE RECHERCHES FORESTIERES
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
GROUPE REGIONAL DE GUYANE
B.P. 709 Tél. 594|32.13.10
97387 Kourou Cédex, Guyane française Télex: 910 644 EG

Statut: L'INRA est un établissement public scientifique et technique sous la tutelle du Ministère de l'Agriculture et du Ministère de la Recherche et de la Technologie.

Effectifs: 1 chercheur + 1 ingénieur

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

Etude de la forêt naturelle (forêt tropicale humide).

Installations spéciales: Une chambre d'assimilation portable.

Publications et services: -

Coopération: La Station collabore avec l'Office National des Forêts, Direction Régionale de Guyane; le Muséum d'Histoire National; et le Centre Technique Forestier Tropical. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

GUADALUPE

STATION DE RECHERCHES FORESTIERES
INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE (INRA)
CENTRE ANTILLES-GUYANE — Tél. 590/94.20.40; 94.22.27; 94.22.80
B.P. 1232 — Télégrammes: RECHERCHAGRO POINTE A PITRE
97184 Pointe-à-Pitre, Cédex, Guadeloupe — Télex: 919 867 GL INRAAG

Statut: L'INRA est un établissement public scientifique et technique sous la tutelle du Ministère de l'Agriculture et du Ministère de la Recherche et de la Technologie.

Effectifs: 1 ingénieur

Stations de recherche sur le terrain: -

Principaux domaines d'activité:

Etude de la forêt naturelle (forêt tropicale humide).
Déboisement dans les zones mésophile et xérophile en Guadeloupe.

Installations spéciales: -

Publications et services: La Station de recherche publique "Régénération de la forêt tropicale humide en Guadeloupe"(Mémoire de 3ème année ENITEF) et "Croissance et production de Swietenia macrophylla" (Mémoire de 3ème année ENITEF). Une bibliothèque est disponible.

Coopération: La Station collabore avec l'Office National des Forêts, Direction Régionale de la Guadeloupe. Elle n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

NEAR EAST
PROCHE ORIENT
CERCANO ORIENTE

IRAN

FACULTY OF NATURAL RESOURCES
UNIVERSITY OF TEHRAN
Karadj

Tel.
Cables:

Status: A university institution established in 1956 as Forestry Section of the Faculty of Agriculture. It became Institute of Forests and Rangeland in 1963, Faculty of Forestry in 1966, and Faculty of Natural Resources in 1970.

Staff: 26 research and development officers (22 Ph.Ds, 1 expatriate)
3 technicians
26 other (administrative/secretarial)

Field stations: 1 (experimental forest)

Principal fields of activity:

Forestry; range and watershed management; wood science and technology; environmental management; fisheries and wildlife.

Research on fuelwood for energy is being contemplated.

The research is conducted in arid and semi-arid lands, and in temperate and mountainous zones.

Special facilities: A herbarium with 900 specimens (mostly wood species) and a xylarium with 200 specimens.

Publications and services: Research results are published in the Bulletin of the Faculty and are disseminated through research conferences and seminars. The Faculty maintains a library with 7,500 books and 78 journal titles.

Cooperation: The Faculty maintains cooperative links with the Research Institute of Forests and Rangelands (research projects, staff training, research council, etc.) and has formal links with FAO (staff training and exchange of information), IUFRO (member) and ISTA (member).

Official working language: Farsi (Persian)
Official working language for international correspondence: English.

IRAN

RESEARCH INSTITUTE OF FORESTS AND RANGELANDS
P.O. Box 13185-116
Tehran

Tel. 944198; 943123

Status: A public institution forming a unit of the Research Organization of Agriculture and Natural Resources. The Institute was established in 1968, with three departments: Forest Department, Soil Conservation and Watershed Management Department, Range Department.

Staff: 64 research and development officers (4 Ph.Ds)
17 technicians

Field stations: 15

Principal fields of activity:

Forestry: species trials and afforestation, poplar research, forest management and silviculture, forest nutrition, irrigation and physiology, forest genetics, and wood science.

Soil Conservation and Watershed Management: sand dune fixation.

Range: plant identification, plant introduction, agronomy and range ecology.

Botany: Botanical Garden and Herbarium.

The research is conducted in arid and semi-arid lands and in temperate and mountainous zones.

Special facilities: A herbarium with 80,000 specimens. Research equipment includes apparatus for gas chromatography.

Publications and services: Research results are published in the proceedings of research seminars and in occasional technical publications. The Institute publishes the Iranian Journal of Botany. The central library of the Institute contains approximately 3,500 books and journals and possesses microfiche reading facilities.

Cooperation: The Institute exchanges seed with other countries. It is a member of IUFRO.

Official working language: Farsi (Persian)
Official working language for international correspondence: English.

JORDAN

FOREST TRAINING CENTER
Kamalya/Salt Swilih Street
P.O. Box 2179
Kamalya/Amman
Tel. 841116; 842751

Status: The Center was established in 1980. It is part of the Forest Management Division of the Department of Forests and Soil Conservation.

Staff: 2 teachers (forest engineers)
2 technicians (forest rangers)

Field stations: 12 range stations.

Principal fields of activity:

Training of field personnel and workers.

Forest development research.

Special facilities: A herbarium, a xylarium and an arboretum.

Publications and services: The Center publishes annual reports and various pamphlets and studies. It also maintains a library.

Cooperation: The Center exchanges seeds, reports and informations with other countries. It is not a member of IUFRO.

Official working language: Arabic
Official working language for international correspondence: English.

KUWAIT

KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH
P.O. Box 24885
Safat, Kuwait

Tel. 816988
Cables: SCIENCE KUWAIT
Telex: KISR-KT 22299

Status: The Institute is an independent public institution. It was established in 1967 by the Arabian Oil Co. Ltd. (Japan). In 1973, the Institute was incorporated into the Government of the State of Kuwait and in 1981 it became a public institution with its own legal entity.

Staff: 439 research and development officers (273 expatriates)
163 technicians
189 other (administrative/secretarial)

Field stations: (information not available)

Principal fields of activity: The Institute has a wide range of research activities, including the following:

Petroleum, petro-chemicals and materials.
Environment and earth sciences.
Food resources.
Engineering.
Techno-economics.

Special facilities: A herbarium and equipment for gas chromatography and bomb calorimetry. Other equipment includes X-ray diffraction, mass spectrometry, amino-acid analysis, and fluorometry.

Publications and services: The Institute disseminates its research results in an annual research report and in the proceedings of research conferences and seminars. It also publishes the monthly scientific magazine "Akhbar Al-Ma'had". There is a library (42,000 books) with microfiche readers; 1,800 subscriptions to technical journals.

Cooperation: The Institute cooperates with the General Authority for Agriculture and Fisheries. Formal international links have been established with the Institut National de la Recherche Agronomique (INRA) and with the Centre National pour l'Exploitation des Océans (CNEXO). The Institute is not a member of IUFRO.

Official working language: Arabic
Official working language for international correspondence: English.

KUWAIT

NURSERY AND FORESTRY DIVISION
AGRICULTURAL AFFAIRS AND FISH RESOURCES AUTHORITY
Omariya Street
P.O. Box 21422
Safat, Kuwait

Tel. 711155/258
Cables: AGRIFISH
Telex: 30072 AGRFISH KT

Status: A public institution established in 1953.

Staff: 9 agricultural engineers
2 assistant engineers
4 agricultural technicians

Field stations: None

Principal fields of activity:

Identification of suitable varieties of trees for Kuwait.
Experiments with new plants.

Special facilities: A herbarium with flora of Kuwait, and facilities for afforestation and production of trees and shrubs and ground covers.

Publications and services: The Division publishes monthly reports on research projects. Only limited library facilities are available.

Cooperation: The Division cooperates with other divisions of the Agricultural Affairs and Fish Resources Authority and also with local scientific institutions and agricultural companies. It has no international research links and is not a member of IUFRO.

Official working language: Arabic
Official working language for international correspondence: English.

SAUDI ARABIA

COLLEGE OF AGRICULTURAL SCIENCES AND FOOD
KING FAISAL UNIVERSITY
P.O. Box 380
31982 Al-Hassa, Kingdom of Saudi Arabia

Tel. 58/26665
Telex: 661028 FAISAL SJ

Status: A university, established in 1975.

Staff: (no research personnel at present)

Field stations: 1

Principal fields of activity:

No forestry research activities at present. The research would be conducted mainly in arid and semi-arid zones.

Training and extension.

Special facilities: A herbarium with 300 specimens. The laboratory equipment includes gas chromatography.

Publications and services: Research results are published in annual reports and other publications such as the Agricultural and Veterinary Magazine (annual) and are disseminated through research conferences and seminars. There is a library with 20,000 scientific volumes and 600 international journals. Microfiche readers are available.

Cooperation: A cooperative programme exists between the University and a group of American universities in the field of staff and curriculum development and consultants' visits. The University is not a member of IUFRO.

Official working language: Arabic
Official working language for international correspondence: English.

SOMALIA

NATIONAL RANGE AGENCY
P.O. Box 1759
Mogadishu

Tel. 27025/34007
Cables: SOMALRANGE
Telex: 736 NRA MOG SOM

Status: A public institution established in 1976 within the Ministry of Livestock, Range and Forestry. In 1983, the forestry components were strengthened with CDA and FAO cooperation.

Staff: (information not available)

Field stations: None

Principal fields of activity:

Forestry research on species introduction and cultural treatment, nursery practice, planting methods, fuelwood production and use, and improved wood stove design.

Special facilities: A herbarium under the care of a full-time curator.

Publication and services. The Agency's Documentation Centre produces a quarterly journal of the National Herbarium. (No information on library facilities.)

Cooperation: The Agency is a member of the national Technical Committee for Alternative Energy. Formal cooperative links have been established with the Somali National Foundry and Mechanical Workshop with regard to research on wood stove design and testing. International cooperation and assistance has involved numerous agencies including FAO, the Cooperative forAmerican Relief for Everywhere (CARE), AFRICARE, UNICEF, Inter-Church Response, the United States Agency for International Development (USAID), Volunteers for International Assistance - USA (VITA), and the Tropical Products Institute, London. The Agency is not a member of IUFRO.

Official working language: Somali
Official working language for international correspondence: English.

SUDAN

FORESTRY RESEARCH CENTRE (FRC)
P.O. Box 658
Khartoum

Tel. 76701/3/4
Cables: ABHATH GHABAT

Status: A public institution created in 1965 as Forestry Research and Education Institute. In 1974 it became part of the Agricultural Research Corporation under the Ministry of Agriculture and Natural Resources.

Staff: 22 research and development officers (2 Ph.Ds and 9 M.Scs)
21 technicians

Field stations: 2

Principal fields of activity:

Species and provenance trials.
Shelterbelts and other plantation for protection and reclamation.
Seed collection and nursery techniques.
Irrigation studies.
Wood technology research.
Gum Arabic production.
Agroforestry.

Special facilities: A herbarium (8,000 specimens) and a xylarium (60 specimens). There is a well-equipped wood technology laboratory, but the equipment is getting old and needs frequent repairing.

Publications and services: Most publications (approx. 100) are typed on stencil. There are no publication facilities, nor adequate typing and photocopying facilities. The Centre has a library with 3,110 volumes and 25 technical journals, but most of the books are out of date.

Cooperation: The Centre has joint projects with the National Council of Research and Khartoum University. It receives funds from IDRC and FAO for small projects.

Official working languages: Arabic and English
Official working languages for international correspondence: Arabic and English.

YEMEN (PEOPLE'S
DEMOCRATIC REPUBLIC)

FORESTRY AND RANGE SECTION
RESEARCH AND EXTENSION DEPARTMENT
MINISTRY OF AGRICULTURE AND AGRARIAN REFORM
P.O. Box 1611
Aden

Tel.
Cables:

Status: Part of El-Kod Research Centre re-established in 1968 under the Ministry of Agriculture and Agrarian Reform.

Staff: 5 research and development officers
6 technicians
1 other (administrative/secretarial)

Field stations: (information not available)

Principal fields of activity:

Research for raising planting stock.
Sand dune fixation.
Shelterbelts and windbreaks.
Afforestation.
Collection and introduction of arboreal species.
Range land improvement.
Survey of flora.

25% of the research programme is devoted to fuelwood or energy activities.

The research is carried out in arid lands.

Special facilities: A herbarium with 120 specimens, and a xylarium with 15 specimens. There is also a forest seed collection and a simple seed germination laboratory.

Publications and services: Research results are published in annual reports and technical reports (issued every 3-5 years). They are also disseminated in state, cooperative and private farms. The Section uses the central library of El-Kod Research Centre which possesses microfiche readers.

Cooperation: Formal links with the Animal Husbandry Department of the Ministry of Agriculture and Agrarian Reform. International cooperation with FAO and IBPGR. The Section is not a member of IUFRO.

Official working language: Arabic
Official working language for international correspondence: English.

NORTH AMERICA
AMERIQUE DU NORD
AMERICA DEL NORTE

CANADA

PETAWAWA NATIONAL FORESTRY INSTITUTE
Chalk River, Ontario
Canada K0J 1J0

Tel. 613/589-2880
Telex: 053-34557

Status: A public research institution of the Central Government, established in 1979 through the amalgamation of the Forest Fire Research Institute, the Forest Management Institute and the Petawawa Forest Experiment Station.

Staff: 44 professionals in research and operations
35 technicians supporting research and operations
51 administrative and other support staff

Field stations: None

Principal fields of activity:

Forest fire research, forest management modelling, forest biotechnology, tree genetics, silviculture, remote sensing, insect and disease survey technologies, forest biomass, forestry statistics, national forest inventory, public awareness.

Special facilities: 98 km^2 of forest containing numerous research plots, genetics plantations, natural areas, demonstration forest, propagation facilities.

Publications and services: Research results are published in scientific journals, forestry reports, information reports and are also disseminated through conference and seminar proceedings. The library has some 5,000 scientific and technical volumes, 10,000 reports, 150 subscriptions to national and international journals, and access to the Canadian Government on-line library management system.

Cooperation: Many links with other countries' research programs are established and new ones welcomed. The Institute is a member of IUFRO.

Official working languages: English and French.

CANADA

FACULTY OF AGRICULTURE AND FORESTRY
UNIVERSITY OF ALBERTA
Edmonton, Alberta
Canada T6G 2P5

Tel. (403) 432/4931
Telex: 0372979

Status: A university institution founded in 1908. The forestry programme was formalized in 1970. Enrolment of 420 undergraduates and 70 graduate students in M.Sc. and Ph.D programmes, many foreign students.

Staff: 23 professors fully involved in forestry; additional 10 shared. Considerable collaboration among the 96 professors in the Faculty.

Field stations: 3 (1 wildlife productivity, 1 range/livestock, 1 forestry)

Principal fields of activity:

Integrated forest resource management studies in the boreal, montane and sub-alpine forest regions of western and northern Canada. Particular strength in quantitative forest management, forest genetics, forest soils, wildlife conservation, wildland recreation and parks, and forest pathology.

Special facilities: The University of Alberta is third largest in Canada, providing access to many special facilities including greenhouses, controlled environment chambers, SE microscopes, mainframe computer.

Publications and services: The Faculty publishes the Agriculture and Forestry Bulletin quarterly. Research results are published in scientific journals. The main University Library contains over 2 million volumes and 500,000 documents, and subscribes to 15,000 periodicals.

Cooperation: The Faculty has formal ties with universities in China, Korea, Japan and Czechoslovakia. Forestry graduate students are from China, Malaysia, Thailand, Peru and Kenya among others. Faculty have worked on forestry projects in these countries and in Indonesia and Dominica. The Faculty is a member of IUFRO.

Official working language: English.

CANADA

NORTHERN FORESTRY CENTRE
CANADIAN FORESTRY SERVICE
5320 - 122 Street
Edmonton, Alberta
Canada T6H 3S5

Tel. 403/435-7210

Status: A public research institution of the Central Government, established in 1970 through the amalgamation of research centres in Winnipeg and Calgary. Maintains a Manitoba District Office in Winnipeg and a Saskatchewan District Office in Prince Albert.

Staff: 62 research and development officers (24 Ph.Ds)
38 technicians
25 other (administrative/secretarial)

28 staff directly related to Agreements with the Provinces (professionals, technicians and administration)

Field stations: 2

Principal fields of activity:

Regeneration and plantation management; nursery management and tree improvement; stand productivity and forest inventory (remote sensing); fire research; forest entomology and pathology, including forest insect and disease surveys; environmental impact; wetlands and climate; forest hydrology; forest economics; and technology transfer and information.

The activities also include extension, forest development and job creation.

The research is conducted mainly in temperate (boreal) and mountainous zones, in the provinces of Alberta, Manitoba and Saskatchewan, and the Northwest Territories.

Special facilities: A herbarium with 29,000 specimens; a mycology herbarium with 22,000 specimens, plus a culture collection. There is also an entomology collection with 100,000 specimens.

Publications and services: Research results are published in scientific journals, forestry reports (quarterly), forest management notes (approx. 6 issues per year), pest leaflets and information reports, and are also disseminated through research conference proceedings and seminars. The library has some 7,000 scientific and technical volumes and 23,000 reports; 150 subscriptions to international technical journals. Microfiche reachers are available.

Cooperation: The Centre has exchanged staff in the past on an international basis. It would be willing to develop research links with developing countries. The Centre is a member of IUFRO.

Official working language: English.

CANADA

FACULTY OF FORESTRY
UNIVERSITY OF NEW BRUNSWICK
Bag Service 44555
Fredericton, N.B.
Canada E3B 6C2

Status: The University was founded in 1785, and the Faculty of Forestry in 1908. It offers accredited programmes in forestry and forest engineering at undergraduate and graduate levels to Ph.D.

Staff: 26 faculty
6 technicians

Field stations: Adjacent 1000 ha. University Forest.

Principal fields of activity:

Most aspects of forestry and forest engineering.

Special facilities: -

Publications and services: Research results are published in open literature and in Faculty reports.

Cooperation: Extensive cooperation with federal and provincial governments as well as industry. Local industry funds a chair in tree improvement.

Official working language: English.

CANADA

MARITIMES FOREST RESEARCH CENTER
CANADIAN FORESTRY SERVICE
P.O. Box 4000
Fredericton, New Brunswick
Canada E3B 5P7

Tel. 506/452-3508
Telex: 014-46165

Status: A public institution of the Canadian Forestry Service with responsibility for federal forestry programs in the provinces of New Brunswick, Nova Scotia and Prince Edward Island. Research has been conducted in this Region by the CFS and its predecessor agencies for over 75 years. In 1983, a Forest Development Program was established.

Staff: Currently there are 40 professional research staff plus their technical support. There are 36 members of the Forest Development Program. Regional staff totals 192 including administration.

Field stations: 1 plus 3 provincial offices.

Principal fields of activity:

The research program is organized into five major projects: Forest Renewal, Forest Productivity, Acid Rain and Nutrient Cycling, Spruce Budworm, and Forest Insect and Disease Survey.

Special facilities: A herbarium with 10,000 specimens and a forest insect collection with 100,000 specimens.

Publications and services: Research results are published in scientific journals, information reports and technical bulletins, and are disseminated through seminars, workshops, conferences and personal contact via technology transfer activities. The Center's library contains 5,000 reference books, 3,000 pamphlet boxes of documents, and 2,500 microfiches and films.

Cooperation: The Center would be willing to develop research links with other countries. It has exchanged staff on an international basis in the past. The Center is a member of IUFRO.

Official working language: English.

CANADA

RESEARCH AND TECHNICAL SERVICES DIRECTORATE
CANADIAN FORESTRY SERVICE
351 St. Joseph Blvd.
Hull, Québec
Canada K1A 1G5

Tel. 819|997-3350
Telex: 0533188 ENVIRONCDA

Status: A public institution of the Canadian Forestry Service, Agriculture Canada.

Staff: 20 scientists
6 other professionals
2 technicians
11 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Research planning, management, evaluation and coordination in all forestry research fields since 1980.

Special facilities: None

Publications and services: Reviews are published in scientific papers and annual reports. The Directorate has access to the libraries of Environment Canada (in the same building) and of Agriculture Canada.

Cooperation: The Directorate manages a major university subvention program in forestry research and subvention programs with the Forest Engineering Institute of Canada (FERIC) and FORINTEK (Forest Products Research Laboratories). It is a member of IUFRO.

Official working languages: English and French.

CANADA

ONTARIO TREE IMPROVEMENT AND FOREST BIOMASS INSTITUTE
MINISTRY OF NATURAL RESOURCES
Maple, Ontario
Canada L0J 1E0 Tel. 416/832-2761

Status: An institution of the Ontario Government.

Staff: 15 professionals
20 professional support personnel and technicians
6 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Tree improvement, especially with regard to nursery stock productivity; forest biomass; biotechnology; site productivity; silviculture; tree biology and forest ecology.

Special facilities: -

Publications and services: Research results are published in journals and internally. The Institute also issues an annual report, forest research reports and forest research notes. Library facilities are available.

Cooperation: Cooperative links with other provincial and federal agencies, and with universities. The Institute is a member of IUFRO.

Official working language: English.

CANADA

FORINTEK CANADA CORPORATION
Eastern Region
800 Montreal Road
Ottawa, Ontario
Canada K1G 3Z5

Tel. 613|744-0963
Telex: 053-3606

Status: A private national wood products research institute founded in 1913.

Staff: 23 research scientists (3 Ph.Ds)
21 technicians
25 other (administrative|secretarial)

Field stations: -

Principal fields of activity:

Research and development for the Canadian wood products industry. Lumber manufacturing, composite products, building construction, secondary manufacturing.

Special facilities: Product testing and evaluation - accredited testing, organization for mechanical and physical tests (Standards Council of Canada). Forintek has a formaldehyde emissions testing chamber to provide panel product manufacturers with test services that are mandatory for exports to the U.S. market.

Publications and services: Research results are published in annual reports, technical reports, scientific journals, the Institute's monthly journal (The Fortinek Review) and are disseminated through research conferences, seminars and symposia. The library stores over 9,300 scientific and technical volumes, 400 journals and other serials. It has computerized cataloguing of this resource and computerized information retrieval services. It has also an in-depth resource collection in all phases of forest products, wood technology and wood residue utilization.

Cooperation: International contacts have been limited to personnal and information exchanges as well as some contract research. In the future, the Institute plans to strengthen its research links with developing countries and expand contract research. It is a member of IUFRO.

Official working languages: English and French.

CANADA

FOREST ENGINEERING RESEARCH INSTITUTE OF CANADA (FERIC)
Eastern Division
143 Place Frontenac
Pointe Claire, Québec
Canada H9R 4Z7

Tel. (514) 694-1140
Telex: 04-54587

Status: FERIC is a private institution, founded in 1975 and now reaching the end of Phase I of its formation. It has two divisions, one in Vancouver and the other in Pointe Claire near Montréal. The Head Office is also located in Point Claire.

Staff: 30 research officers
9 technicians
19 other (administrative|secretarial)

Field stations: None

Principal fields of activity:

Wood harvesting, secondary transportation mechanization of silvicultural operations, small woodlot operations, and contract research.

More than 50% of the research programme is concerned with the extraction, processing and transportation of wood.

The research is conducted mainly in temperate and mountainous zones.

Special facilities: None, because the Institute conducts its research activities in the field.

Publications and services: Research results are disseminated through occasional publications such as special reports, technical reports and technical notes, research seminars, and audio-visuals. The library has 6,000 scientific and technical volumes and possesses microfiche readers; 100 subscriptions to intrnational technical journals.

Cooperation: The Institute conducts most of its research in cooperation with its members, the Government of Canada and provincial governments. It also cooperates with other countries on projects sponsored by the International Energy Agency. It is also willing to exchange researchers with other research organizations. FERIC is a member of IUFRO.

Official working languages: English and French.

CANADA

FORESTRY DIVISION
SASKATCHEWAN PARKS AND RENEWABLE RESOURCES
P.O. Box 3003
Prince Albert, Saskatchewan
Canada S6V 6G1 Tel. 306/953-2356

Status: A public institution of the province of Saskatchewan, Department of Parks and Renewable Resources. The Research Unit was established in 1983 and is in the first phase of development.

Staff: 4 research staff (1 Ph.D)
3 technicians

Field stations: None

Principal fields of activity:

Silviculture.
Tree improvement.
Forest insects and disease surveys.

Publications and services: Research results are published in technical reports and forestry notes. (Information on library stock not available.) Subscriptions to international technical journals.

Cooperation: Research links with various research institutions. The institution is not a member of IUFRO.

Official working language: English.

CANADA

CENTRE DE FORESTERIE DES LAURENTIDES
LAURENTIAN FORESTRY CENTRE
1055, rue du P.E.P.S.
B.P. 3800
Sainte-Foy, Québec
Canada G1V 4C7

Tel. 418/648-5850
Télex: 051-31560

Statut: Organisation de recherche forestière du Gouvernement fédéral relevant du Service canadien des forêts. Elle fut créée en 1957.

Effectifs: 29 chercheurs professionnels
19 professionnels de support
46 techniciens
29 autres (administratifs et secrétaires)

Stations de recherche sur le terrain: 3

Principaux domaines d'activité:

Génétique et amélioration des arbres; lutte biologique contre les insectes forestiers; relevé des insectes et des maladies des arbres; pathologie forestière; télédétection et inventaire du couvert végétal; sylviculture; culture et plantation des semis en conteneurs; transport à grande distance des polluants athmosphériques (pluies acides).

Installations spéciales: Une collection de 25.000 insectes et une collection de plus de 50.000 photos d'insectes sur environ 800 espèces différentes. Un herbier de 20.000 espèces de champignons reliés au milieu forestier. Deux mille isolats de champignons en culture pure.

Publications et services: Les résultats de la recherche sont publiés dans les journeaux scientifiques et sont diffusés à l'occasion de conférences et séminaires sur la recherche. Le Centre publie également des rapports d'information sur certains aspects des travaux de recherche. Il distribue régulièrement un bulletin d'information interne. Les rapports et bulletins d'information sont offerts aux personnes et organismes inscrits sur une liste de distribution. Le Centre possède une bibliothèque de 6.000 volumes et il reçoit régulièrement 100 revues internationales. Lecteurs de microfilms disponibles et information sur ordinateur.

Coopération: Les contacts internationaux sont limités à des échanges de personnel et d'information. Il n'y a pas d'activités orientées vers les pays en développement. Le Centre est disposé à renforcer les contacts de recherche avec les institutions de ces pays. Il est membre de l'IUFRO.

Langues officielles de travail: français et anglais.

CANADA

DIRECTION DE LA RECHERCHE ET DU DEVELOPPEMENT
MINISTERE DE L'ENERGIE ET DES RESSOURCES (SECTEUR FORETS)
GOUVERNEMENT DE QUEBEC
2700, rue Einstein
Sainte-Foy, Québec
Canada G1P 3W8

Tél. (418) 643-7606; 643-7994
Télex: 051-31589; TWX 610-551-5517

Statut: Organisation de recherche forestière provinciale créée en 1967.

Effectifs: 24 chercheurs (recherche et développement) (8 avec doctorat)
28 techniciens
18 administratifs|secrétaires
et nombreux occasionnels et saisonniers

Stations de recherche sur le terrain: 1 principale

Principaux domaines d'activité:

Amélioration génétique des arbres.
Semences, boutures et plants.
Plantations.
Ecologie et rendement des forêts.
Sylviculture des forêts naturelles
Gestion des forêts.
Information scientifique.
Innovation technologique.

Installations spéciales: Herbier du Québec avec plus de 100.000 échantillons.

Publications et services: Mémoires, notes, guides et publications diverses, ainsi que articles dans des revues spécialisées. Conférences et séminaires. La Direction possède une bibliothèque avec environ 7.000 volumes et environ 300 séries et périodiques (nombreux échanges); 10 périodiques techniques internationaux. Lecteurs de microtextes. 250 rapports internes (diffusion restreinte).

Coopération: Pas d'activités dans les pays en développement. Les contacts internationaux sont limités à la formation et à l'échange d'informations. La Direction est membre de l'IUFRO.

Langue officielle de travail: français.

CANADA

FACULTE DE FORESTERIE ET DE GEODESIE
UNIVERSITE LAVAL
Cité universitaire
Sainte-Foy, Québec
Canada G1K 7P4

Tél. (418) 656-3053
Télex: 051-31621

Statut: Institution universitaire créée en 1852. A l'intérieur de l'Université, la Faculté de foresterie et de géodésie actuelle a pris naissance en 1910 sous le nom d'Ecole forestière. Le secteur foresterie de la Faculté regroupe deux départements et un Centre de recherche en biologie forestière.

Effectifs: 35 professeurs et chercheurs (26 Ph.D)
20 techniciens
19 autres (administratifs|secrétaires)

Stations de recherche sur le terrain: 1 (la Faculté a également accès à plusieurs sites auxiliaires d'expérimentation)

Principaux domaines d'activité:

Aménagement intégré des ressources forestières - Sylviculture - Opération forestière - Ecologie forestière - Pédologie forestière - Biotechnologie - Génétique - Physiologie - Entomologie - Sciences du bois - Télédétection.

Principales zones des activités de recherche: zones tempérées et tropicales.

Installations spéciales: La Faculté dispose d'une forêt expérimentale de 6.591 hectares située à 75 km du campus dans la Réserve des Laurentides. Un pavillon y a été aménagé avec des possibilités d'accueil d'environ 100 personnes pour des travaux de recherche, colloques, séminaires et symposia.

Publications et services: Les résultats de la recherche sont publiés dans les revues scientifiques et sont diffusés à l'occasion des symposia, conférences et séminaires sur les différents thèmes de recherche. L'Université possède une bibliothèque scientifique de 110.000 volumes; 2.700 abonnements à des revues, dont 10.000 volumes et 300 abonnements à des revues dans le domaine de la foresterie.

Coopération: La Faculté supporte des programmes de formation aux 1er, 2e et 3e cycles et collabore en matière de recherche avec divers pays d'Afrique (Maroc, Zaïre, Sénégal) et d'Amérique latine (Pérou, Mexique). La Faculté entretient des échanges de recherche et d'étudiants avec certains pays européens (Suède, Finlande, Suisse). La Faculté est membre de l'IUFRO.

Langue officielle de travail: français
Langues officielles de travail pour la correspondance internationale: français et anglais.

CANADA

FOREST PEST MANAGEMENT INSTITUTE
CANADIAN FORESTRY SERVICE
1219 Queen Street East
P.O. Box 490
Sault Ste. Marie, Ontario
Canada P6A 5M7

Tel. (705) 949-9461
Telex: 067-77180

Status: A public institution of the Canadian Forestry Service. Formed under its present name in 1977 through amalgamation of two former national research institutes, the Insect Pathology Research Institute, Sault Ste. Marie, Ontario, and the Chemical Control Research Institute, Ottawa, Ontario, each of which had been involved in forest pest management research within its respective sphere of expertise since 1951.

Staff: 33 research scientists, biologists, forestry officers and chemists
43 technical support staff
9 other (management, secretarial and support services)

Field stations: None

Principal fields of activity:

Fundamental and applied research in forest pest management, including biorational control agents - bacteria, fungi, viruses, protozoa, insect growth regulators, semiochemicals; chemical control agents - insecticides, herbicides; pesticide application technology, chemical accountability and environmental impact of pest control products. These thrusts supported by research in insect tissue culture, cellular biology, immunology and biological systems analyses. Extensive support services in insect, pathogen and plant production.

The research is conducted in temperate zones.

Special facilities: Agricultural spray aircraft, spray chambers, electron microscope, insect, pathogen and plan production facilities, research cultures of entomopathogenic fungi, protozoa and viruses.

Publications and services: Research results are published in scientific journals, FPMI Information Reports and Technical Notes, and are also disseminated through participation in national and international research conferences, symposia and seminars. A jointly operated library with the Great Lakes Forestry Centre subscribes to 400 scientific journals and 24 abstracting journals, and has about 8,000 books.

Cooperation: The Institute accepts post-doctorate fellows in related fields and is willing to develop research links with developing countries. It is a member of IUFRO.

Official working language: English.

CANADA

GREAT LAKES FORESTRY CENTRE
CANADIAN FORESTRY SERVICE
Queen Street East, 1219
Box 490
Sault Ste. Marie, Ontario
Canada P6A 5M7

Tel. 705/949-9461
Telex: 067-77180

Status: A public research institution of the Government of Canada, Canadian Forestry Service.

Staff: 42 research officers
57 technicians
75 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Silviculture, fire research, forest entomology, forest pathology, forest insect and disease survey, atmospheric pollutants, ecology, environmental impact, ecological classification, and economics.

The research is conducted in temperate zones.

Special facilities: -

Publications and services: Research results are published in scientific journals and in Great Lakes Forestry Centre Information Reports. Other reports published include: Forestry Newsletter, Forest Insect and Disease Survey Bulletins, Mechanization of Silviculture, and Great Lakes Forestry Centre miscellaneous reports. The Research Library (350 m^2) on the premises contains 400 technical journals and over 8,000 books. The library staff also provides computerized literature search services, with computer access to larger, centralized Canadian research libraries.

Cooperation: The Centre cooperates with national and regional provincial government agencies, forest industry organizations and other non-government agencies. It is a member of IUFRO.

Official working language: English.

CANADA

NEWFOUNDLAND FORESTRY CENTRE
CANADIAN FORESTRY SERVICE
Building 304, Pleasantville
P.O. Box 6028
St. John's, Newfoundland
Canada A1C 5X8

Tel. (709) 772-4117
Telex: 016-4719
FAC^S (709) 772-2576

Status: A public institution of the Canadian Forestry Service founded in 1966. Activities are organized under three major programs: Forest Resources and Environmental Research, Forest Protection Research, and Forest Development.

Staff: 29 research and development officers
30 technicians
14 other (administrative|secretarial)

Field Stations: 2

Principal fields of activity:

Silviculture, forest genetics, forest entomology, forest pathology, forest ecology, and forest development activities associated with a federal-provincial forestry development agreement.

Special facilities: Tree nursery, chemical and physical analyses laboratory, plant herbarium, computer centre, mycological herbarium, insect reference collection, modular greenhouse.

Publications and services: Research and development results are published in annual reports, scientific papers, information reports and the Centre's News Bulletin (a quarterly publication), and are disseminated through a general mailing list, research conferences, seminars and symposia. The Centre has a library which provides support to in-house scientific and technical staff, client agencies and the general public. Currently the library contains 2,900 reference books and 1,300 serial volumes, with approximately 800 inter-library loans per year. There is also microfiche capability.

Cooperation: Major cooperating agencies of the Centre include: the Provincial Department of Forest Resources and Lands, forest industry of the region, and other research agencies of the federal and provincial governments. The Centre is a member of IUFRO.

Official working language: English.

CANADA

FOREST RESEARCH BRANCH
ALBERTA FOREST SERVICE
215 McLeod Avenue
Postal Bag 6343
Spruce Grove, Alberta
Canada T0E 2C0

Tel. (403) 962-8700

Status: A public institution of the State of Alberta Forest Service, Department of Energy and Natural Resources. The Branch was established in 1980 and is in the first stage of development. Programmes and staffing have reached approximately one third of proposed development.

Staff: 6 research officers (2 Ph.Ds)
1 technician
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Site classification, silviculture, and watershed management.

The research is conducted in the temperate zone.

Special facilities: none

Publications and services: Research results are published in annual reports and occasional technical reports, and are disseminated through research conferences and seminars. (Information on library stock not available.) There are 15 subscriptions to international technical journals.

Cooperation: Research links with developing countries will be established when the Branch has attained full staffing. The Branch is a member of IUFRO.

Official working language: English.

CANADA

FACULTY OF FORESTRY
UNIVERSITY OF TORONTO
203 College Street
Toronto, Ontario
Canada M5S 1A1

Tel. (416) 978-3548

Status: A university institution, founded in 1907.

Staff: 32 research officers and faculty
14 technicians
12 other (administrative|secretarial)

Field stations: 1

Principal fields of activity:

Most areas of forestry.

Special facilities: -

Publications and services: Faculty calendar, annual research report, publications in scientific journals, contract and government reports, analytical services. The library system of the University has a total of 6,300,000 volumes; 25,600 volumes are located in the library of the Faculty of Forestry. Some of the services are searches, microcatalogue, OCD collection, government documents, theses.

Cooperation: The Faculty is currently engaged in a 5-year project of establishing a Master's Degree program in forestry sciences at the Universidad Nacional Agraria in Lima, Peru. Under this program, Canadian professors are training students at the Lima University. Staff are working towards their Ph.D degrees at Canadian universities. Other cooperative projects are underway in Brazil, Costa Rica, Peru and China. Summer exchange between the Faculty and Finland.

Official working language: English.

CANADA

CENTRE DE RECHERCHE EN PATES ET PAPIERS
UNIVERSITE DU QUEBEC A TROIS-RIVIERES
3351, Boulevard Des Forges
B.P. 500
Trois-Rivières, Québec
Canada G9A 5H7

Tél. (819) 376-5687
Télex: 051-3488

Statut: Institution universitaire créée en 1977. A l'intérieur de l'Université, le Centre possède l'autonomie d'un département quant à la gestion de ses ressources humaines et physiques.

Effectifs: 8 chercheurs (recherche et développement) (6 avec doctorat)
4 techniciens
2 administratifs|secrétaires

Stations de recherche sur le terrain: (informations pas disponibles)

Principaux domaines d'activité:

Recherche sur une grande utilisation des feuillus dans les papiers.

Composites fibres cellulosiques-plastiques.

Recyclage des vieux papiers; contaminants, encres, utilisation des fibres recyclées.

Aspects technico-économiques des nouveaux procédés et|ou nouveaux produits.

Formation: maîtrise en sciences des pâtes et papiers, et cours spéciaux sur demande.

Principales zones écologiques des activités de recherche: zones tempérées.

Publications et services: Les résultats de la recherche sont publiés dans les rapports annuels et dans les revues spécialisées en pâtes et papiers, et sont diffusés à l'occasion des conférences sur la recherche. Le Centre possède une bibliothèque avec 34.000 volumes; 1.400 abonnements à des revues techniques internationales. Lecteurs de microfiche disponibles.

Coopération: Pas d'activités dans les pays en développement. Le Centre est disposé à renforcer les contacts de recherche avec les institutions dans ces pays. Il a formé 5 nationaux provenant de 3 pays en développement (Cameroun, Mali et Zaïre). Il n'est pas membre de l'IUFRO.

Langue officielle de travail: français.

CANADA

FACULTY OF FORESTRY
UNIVERSITY OF BRITISH COLUMBIA
270-2357 Main Mall
Vancouver, B.C.
Canada V6T 1W5

Tel. (604) 228-2727

Status: A university institution, founded in 1923. There is an enrolment of 400 undergraduates and 110 postgraduate students, many from abroad.

Staff: 34 research officers and professors (all Ph.Ds)
15 technicians
15 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Most aspects of forestry other than fuelwood and energy research.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: Containerized seedling nursery/greenhouses with capacity to grow 1-3 million seedlings annually; a research forest of 5,156 ha., 64 km from the Campus; Forintek (Forest Products) Research Laboratory on Campus.

Publications and services: Research results are published in annual reports and scientific journals, and are disseminated through research conferences and seminars. The Faculty produces also contract reports, government reports and TV programmes. The library possesses 55,000 scientific and technical volumes and microfiche readers; 2,100 subscriptions to international technical journals.

Cooperation: The Faculty has a large training programme and has at present 32 postgraduate students from 15 different countries. In addition, five professors from China are being trained in Forest Genetics (3) and Wood Science (2). The graduate students are encouraged to carry out research in developing countries and are currently working in Brazil and in Chile. Staff exchange and secondment also take place, with professors now working in Mozambique, Zaire and Peru. The Faculty is able and willing to strengthen research and training links with developing countries. It is a member of IUFRO.

Official working language: English.

CANADA

FOREST ENGINEERING RESEARCH INSTITUTE OF CANADA (FERIC)
Western Division
2112 West Broadway, Suite 201
Vancouver, B.C.
Canada V6K 2C8

Tel. (604) 732-3711
Telex: 04-54587

Status: A private institution, partly funded by the Canadian Forest Industry and the Federal Government.

Staff: 13 research officers
4 technicians
6 (administrative/secretarial)

Field stations: None

Principal fields of activity:

Wood harvesting, logging road construction, log transportation, silvicultural operations and contract research.

The research activities are conducted mainly in temperate, conifer mountainous regions.

Special facilities: Access to member company operations. Most work is conducted in the field.

Publications and services: Reports published on projects and seminars sponsored. The library contains mainly technical papers related to field of research.

Cooperation: The Institute collaborates with universities and Canadian Government laboratories. It is a member of IUFRO.

Official working language: English.

CANADA

FORINTEK CANADA CORPORATION
6620 N.W. Marine Drive
Vancouver, B.C.
Canada V6T 1X2

Tel. 604/224-3221
Telex: 04-508552

Status: A private national wood products research institute founded in 1927.

Staff: 43 scientists (25 Ph.Ds)
31 technicians
43 other (administrative/secretarial)

Field stations: -

Principal fields of activity:

Research and development for the Canadian Wood Products Industry - Lumber Manufacturing, Composite Products, Wood Protection and Preservation, Wood Characterization, Wood Engineering, Biotechnology and Chemistry, Economics and Market Research.

Special facilities: Wood protection and preservation biodeterioration unit used to provide accelerated testing under simulated field conditions. Canadian wood decaying and inhibiting fungi collection.

Publications and services: Research results are published in annual reports, technical reports, scientific journals, the Institute's monthly journal (The Forintek Review), and are disseminated through research conferences, seminars and symposia. The library stores over 7,300 scientific and technical volumes, 300 journals and other serials. It has computerized cataloguing of this resource and computerized information retrieval services. The library has also an in-depth resource collection in all phases of forest products, wood technology, and wood residue utilization.

Cooperation: International contacts have been limited to personnel and information exchanges as well as some contract research. In the future, the Institute plans to strengthen its research links with developing countries and expand contract research. The Institute is a member of IUFRO.

Official working language: English.

CANADA

PACIFIC FORESTRY CENTRE
CANADIAN FORESTRY SERVICE
506 Burnside Road West
Victoria, British Columbia
Canada V8Z 1M5

Tel. 604/388-0600
Telex: 049-7147

Status: A public research institution of the Canadian Government, one of six research centres of the Canadian Forestry Service located across Canada.

Staff: 75 research and professional staff
70 technicians
34 admin. support

Field stations: None

Principal fields of activity:

Pests in regeneration forestry; root diseases; forest entomology; biological control of forest pests; forest fire use and control; damage appraisal; stand management; forest vegetation management; cone and seed production; insect and disease survey; management of a federal/provincial forest resource development agreement.

Special facilities: An insectary with 65,000 specimens; a herbarium with 30,00 specimens; and state-of-the-art computerized greenhouses.

Publications and services: Research results are published in scientific journals and information reports, and are disseminated via response to the quarterly newsletter "Information Forestry" as well as at research conferences and seminars. The library holds 18,500 scientific and technical volumes; 51,000 reports; 390 subscriptions to international journals. Services include document and information delivery (including inter-library loans, on-line literature retrieval services, an accessions bulletin, and current awareness services).

Cooperation: Research links with developing and other countries are ongoing and encouraged when possible. The Centre is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
IOWA STATE UNIVERSITY
251 Bessey Hall
Ames, Iowa 50011

Tel. 515|294-1166

Status: The Department is located in the College of Agriculture in a land grant university. It was established in 1904 and has been accredited by the Society of American Foresters since 1935.

Staff: 13 research and teaching staff (all Ph.Ds)
1 research coordinator
1 laboratory technician
1 field technician
3 other (secretarial)

Field stations: None

Principal fields of activity:

Major activities include teaching, research and extension in forestry.

Research in silviculture, management, inventory, economics, wood anatomy, and forest products.

Special facilities: Greenhouse facilities as well as planting sites on several university farms.

Publications and services: Research results are published in national and international journals. The Department has access to the Parks Library located on campus. The forestry and forestry-related collections in the library are excellent.

Cooperation: International cooperation has included assignment of a faculty member to Peru for 2 years, and assignment of a faculty member to Mexico for 6 months. The Department has also hosted visiting scientists from South Africa and the People's Republic of China. It is not a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF NATURAL RESOURCES
UNIVERSITY OF MICHIGAN
Dana Building
Ann Arbor, Michigan 48109-1115 Tel. 313/764-2550

Status: The School is a research, teaching and degree-granting unit of the University.

Staff: 56 faculty
13 administrative
15 clerical/office

Field Stations: 1 under the management of the School, and one available for research

Principal fields of activity:

Course work leading to Bachelor's, Master's and Ph.D degrees. Graduate degrees are interdisciplinary and combine bio-physical and social/behavioral disciplines enabling graduates to be well grounded in traditional sciences, but also to be well equipped to participate in problem-solving multidisciplinary teams. Both disciplinary and interdisciplinary research occurs within the following broad themes: Ecosystems, Aquatic Resources and Management, Terrestrial Resources and Management, Landscape Resource Planning and Management, Natural Resources and Environmental Policy, and Human Impacts and Change Processes.

Special facilities: Wet laboratories, climate-controlled chambers, plant pathology laboratories, inorganic chemistry laboratories, remote sensing laboratories; wildlife specimen collections; integrative studies studio; several field properties for research; extensive computer facilities and services for research, teaching and administrative functions.

Publications and services: Faculty research appears in technical and applied journals and is presented at conferences. Technology transfer to operations and management is emphasized and accomplished through print and video media. The School's annual report lists publications, courses taught, seminars, research proposals, and awards and active funded projects. The "SNR News" is published twice annually. Research development services are provided to the Faculty to aid in exploratory research and proposal development. The Hatcher Graduate Library provides access to 5,500,000 volumes. There are 20 divisional libraries and 7 departmental and area collections including the Natural Sciences/Natural Resources Library containing 160,000 volumes; customized database searchers are available.

Cooperation: Collaborative arrangements have existed with Federal agencies for many years. They are aimed at international policy and senior management-level individuals. These intensive seminars focus on forestry, parks and equivalent reserves, marine and costal areas and watershed management. The School is a member of IUFRO.

Official working language: English.

U.S.A.

INSTITUTE OF PAPER CHEMISTRY
East South River Street
Appleton, Wisconsin 54912

Tel.
Cables:

Status: A private institution established in 1930, sponsored and funded by the paper industry.

Staff: 5 research and development officers (4 Ph.Ds)
8 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Pulp and paper technology, including the engineering aspects of pulping; forest genetics.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and are disseminated through research conferences and seminars. The Institute also publishes a Bibliographic Series (3-6 issues per year) and an Abstract Bulletin (monthly). There is a library with microfiche readers; 80 subscriptions to international technical journals.

Cooperation: (information not available) The Institute is a member of IUFRO.

Official working language: English.

U.S.A.

SOUTHEASTERN FOREST EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE
200, Weaver Boulevard
Asheville, North Carolina 28804
Tel. (704) 259-0758
Cables:

Status: A public institution of the Forest Service, U.S. Department of Agriculture. The Station was founded as the Appalachian Forest Experiment Station in 1921 and became Southeastern Forest Experiment Station in 1945.

Staff: 85 research officers (47 Ph.Ds)
75 technicians
68 other (administrative/secretarial)

Field stations: 9

Principal fields of activity:

Genetics; tree improvement of hardwoods and pine; silvicultural techniques of hardwoods and pine; endangered species management; integrated pest management; fire and smoke management; economics of forest investment; and forest inventory and analyses.

The research is conducted mainly in the sub-tropical, temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, scientific papers (approx. 12 per year), technical journals and books, and are disseminated in research conferences and seminars. The following publications are issued: Southeastern Station Research Papers; Southeastern Station Research Notes; Southeastern Station Resource Bulletins; Southeastern Station General Technical Reports.

Cooperation: The Station is willing and in a position to strengthen research links with developing countries. At present, one person from China is being trained in Forest Inventory and Analyses. The Station is a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FOREST RESOURCES
UNIVERSITY OF GEORGIA
Athens, Georgia 30602

Tel. (404) 542-2686
Cables:

Status: A teaching and research institution of the University of Georgia. The School was founded in 1906 and was initially concerned with regional forest development. It has now attained a national and international reputation.

Staff: 47 research officers and teachers (44 Ph.Ds)
15 technicians
14 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

All fields pertinent to a teaching and research institution.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, international technical journals and in the proceedings of research conferences and seminars, as well as in the Georgia Forest Research Council Publications and the Georgia Agri Experiment Station Publications. The School uses the central library of the University which is very well stocked with scientific and technical books and has a wide range of international technical journals. Microfiche readers are available.

Cooperation: Research activities in developing countries include reforestation, natural forest growth, and watershed studies. The School is willing and in a position to strengthen its research links with these countries. Other formal international links involve training, exchange of staff, exchange of information, and funding of joint projects. On an average, there are ten persons per year undergoing training at the School in a wide range of research fields. The School is a member of the Southeast Consortium for International Development (SECID) and is also a member of IUFRO.

Official working language: English.

U.S.A.

GEORGIA INSTITUTE OF TECHNOLOGY
ENGINEERING EXPERIMENT STATION
225, North Avenue, NW
Atlanta, Georgia 30332

Tel. (404) 894-3475
Telex: 542507 GTRI OCA ATL

Status: A university teaching and research institution. The Georgia Institute of Technology was established in 1885. Fuelwood research stated in 1974.

Staff: 2 research officers (1 Ph.D) (concerned with fuelwood research)
9 technicians
3 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Industrial research and technology.
Fuelwood research involves fuelwood combustion, gasification, and comparative analysis; economic aspects of fuelwood production; yield, harvesting and properties, and environmental impact.
Training, extension and development.

The research is conducted mainly in arid lands, humid tropics and the temperate zone.

Special facilities: The laboratory equipment includes gas chromatography, electron microscopy and bomb calorimetry.

Publications and services: Research results are published in technical reports and are disseminated through research conferences and seminars. The library is part of the main Georgia Institute of Technology library. Microfiche readers are available.

Cooperation: Cooperative research on fuelwood growth and use is carried out with the National Electrification Administration of the Philippines. Other formal international links involve training and exchange of information. The Institute is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
ALABAMA AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY
Auburn, Alabama 36849

Tel. (205) 826-4050
Cables:

Status: A public university institution. The Department of Forestry was established in 1946 as a teaching and research department within the Agricultural Experiment Station.

Staff: 24 research officers and teaching staff (all Ph.Ds)
12 technicians
6 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest management; forest products; forest engineering.
Five percent of the research programme is devoted to fuelwood and energy studies, particularly growth and yield studies, harvesting and transport, density, calorific value and chemical content, methods of conversion into energy, use of residues, pyrolysis, gasification, and methanol, ethanol and liquid fuel technology.
Activities include training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in technical journals and bulletins. The Department makes use of the central library of the Auburn University. Microfiche readers are available.

Cooperation: The Department is willing and in a position to develop research links with developing countries. At present, one Indonesian is undergoing training in the Department. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

SOUTHERN FOREST EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
AUBURN UNIVERSITY
DeVall Drive
Auburn, Alabama 36849

Tel. (205) 887-7542
Cables:

Status: A public institution of the Forest Service, U.S. Department of Agriculture. The Station was founded in 1962.

Staff: 4 research officers
3 technicians
1 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Thinning of southern pines; integration of timber harvesting/biomass and site preparation for forest regeneration; basic research on machines; and ergonomics of forest workers.

Twenty percent of the research programme is devoted to fuelwood production and use, including socio-economic aspects, inventory, harvesting, and transport of fuelwood.

The research is conducted mainly in the sub-tropical and temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, government reports and technical journals, and are disseminated through research conferences. There is a library (3,200 scientific and technical papers) with microfiche readers.

Cooperation: There has been exchange of staff with other national institutions. One person from China is working at the Station on Harvesting and Site Preparation. The Station is willing and in a position to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

BEND SILVICULTURE LABORATORY
PACIFIC NORTHWEST AND FOREST RANGE EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
1027 NW Trenton Avenue
Bend, Oregon 97701 Tel. 503/388-7427

Status: A research station of the Forest Service, U.S. Department of Agriculture.

Staff: 8

Field stations: 3

Principal fields of activity:

Silvicultural research on interior upper-slope forests of Oregon and Washington. This includes permanent and temporary plots to measure growth and yield of native species.

Work on natural regeneration of species and growth of advance reproduction after release.

Study of the use of fire (prescribed burning) to prepare seedbeds and remove unwanted vegetation.

Special facilities: -

Publications and services: Publications produced as a result of research are printed and distributed by the Station's headquarters in Portland, Oregon. A small library exists, but the Station has access to a larger body of literature through WESTFORNET.

Cooperation: Collaborates with all national forest departments in eastern Oregon and Washington; other research units in the Pacific Northwest Research Station, USDA Forest Service; and private timber companies. The Station is a member of IUFRO.

Official working language: English.

U.S.A.

PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE
1960 Addison Street
P.O. Box 245 Tel. (415) 486-3292
Berkeley, California 94701 Cables:

Status: A public institution, originally established in 1926 as the California Forest and Range Experiment Station.

Staff: 73 research officers (43 Ph.Ds)
21 technicians
25 other (administrative /secretarial)

Field stations: 5

Principal fields of activity:

Timber management research, fire and atmospheric sciences; watershed management; forest insects and diseases; fish and wildlife habitat research; range research; management sciences; urban forestry; forest economics. Extension and development.

The research is conducted mainly in arid and semi-arid lands and in temperate and mountainous zones.

Special facilities: A herbarium with 5,000 specimens.

Publications and services: Research results are published in annual reports, in-house reports and international technical journals. There is a library (40,000 scientific and technical volumes) with microfiche readers; 200 subscriptions to international technical journals.

Cooperation: International cooperation is coordinated by the Forest Service, USDA, Washington, D.C. Formal international links involve training, exchange of staff, exchange of information, funding of joint projects, and direct financial assistance. The Station is willing and in a position to strengthen research links with developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

NORTHEASTERN FOREST EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE
370 Reed Road
Broomall, Pennsylvania 19008
Tel. (215) 461-3008

Status: A public institution of the Forest Service, U.S. Department of Agriculture. The Station was originally established at Amherst, MA, in 1923. Subsequent reorganization and consolidation led to the establishment of the present Station which caters for a 14-State area.

Staff: 136 research officers (68 Ph.Ds)
78 technicians
111 other (administrative/secretarial)

Field stations: 13 laboratory and field locations

Principal fields of activity:

Timber management research; forest inventory; forest insect and disease research; watershed management research; forest environment research; forest economics research; forest harvesting and engineering research; wildlife range and fish habitat research.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: Hubbard Brook Experimental Forest (New Hampshire), Bartlett Forest (New Hampshire), Penobscot Forest (Maine), Fernow Experimental Forest (West Virginia), Kane Experimental Forest (Pennsylvania), Vinton Furnace Experimental Forest (Ohio).

Publications and services: Research results are published in annual reports, research papers, research notes, general technical reports, resource bulletins and refereed journals, and are disseminated through research conferences and seminars. There is a library (1,300 scientific and technical volumes) with microfiche readers; 175 subscriptions to international technical journals. Each laboratory and field location has a small library.

Cooperation: The Station exchanges information with other research agencies. The Station is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
SOUTHERN ILLINOIS UNIVERSITY
Carbondale, Illinois 62901

Tel. 618/453-3341

Status: A Department within the School of Agriculture at a comprehensive university.

Staff: 13 faculty positions (full-time 12-month appointments)

Field stations: None

Principal fields of activity:

Areas of expertise include Forest Biology, Forest Ecology, Forest Soils, Silviculture, Forest Tree Genetics and Improvement, Forest Measurements, Forest Management, Forest Economics, Products Marketing, and Remote Sensing.

Special facilities: Tree Improvement Center greenhouses with field beds irrigation systems, analytical laboratories for soil, plant and water analysis. Micro and mainframe computers. Access to over one million acres of forest land under public industrial and non-industrial ownership.

Publications and services: Departmental bulletin services provide support to industrial associations, and continuing education services are offered to forestry agencies and industries. There is a central library with research and teaching collections totalling1.8 million volumes, and a 2.3 million micro-film unit is serviced by a staff of 242.

Cooperation: -
The Department is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
CLEMSON UNIVERSITY
261 Lehotsky Hall
Clemson, South Carolina 29631

Tel. (803) 656-3302
Cables:

Status: A university teaching and research department. The Department of Forestry was founded in 1956, and in 1957 the Bachelor of Science programme was started, followed by the Masters Programme in 1965 and the Ph.D programme in 1982.

Staff: 30 research officers and teaching staff (28 Ph.Ds)
15 technicians
10 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest management and multiple-use strategies; hardwood and pine silviculture; silvicultural effects and forest influences; forest wildlife habitat and timber management interactions; utilization of hardwoods and pine for products and fuel; integrated pest management (entomology, pathology, fire); forest tree improvement.

Five percent of the research programme is devoted to fuelwood and energy activities, including the use of residues and social aspects of woodfuel compared with alternative fuels.

Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in international technical journals, in the proceedings of research symposia, and in the following serial publications: Forestry Bulletin (5 issues per year); Forest Research Series (3 issues per year); Forest Technical Paper (1 issue per year).

Cooperation: (information not available) The Department is not a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FOREST SCIENCE
TEXAS A & M UNIVERSITY
Horticulture and Forest Science Building
College Station, Texas 77840

Tel.
Cables:

Status: The Department is part of a land grant institution which has grown from an initial emphasis on agriculture and engineering to become a comprehensive research university.

Staff: 12 research officers (all Ph.Ds)
3 technicians
4 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Socio-economic research, silviculture, harvesting, fuelwood.
Five percent of the research programme is devoted to fuelwood and energy activities.
Training and extension.

The research is conducted in semi-arid lands and in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in Agricultural Experiment Station Bulletins and are disseminated through research conferences and seminars. Library facilities are available.

Cooperation: The Department has no research activities in developing countries but is willing and in a position to strengthen research links with institutions in developing countries. International links exist with respect to training and visiting scientists. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

TEXAS FOREST SERVICE
TEXAS A&M UNIVERSITY
College Station, Texas 77843 Tel. 409/845-2641

Status: A university institution established in 1915 as a fire protection agency. Major research activities started in the 1950's.

Staff: 14 research and development personnel (6 Ph.Ds)
12 technicians
6 other (secretarial)

Field stations: 1

Principal fields of activity:

Forest tree improvement; forest pest control (primarily insects); and forest products research (particularly treatment of wood to retard weathering and combustion).

The applied research is conducted mainly in the semi-arid and temperate zones.

Special facilities: Wood weathering and fire retardant research facilities include accelerated weathering chambers, a 12-week rain test chamber, ASTM-E108 fire test apparatus, an 8-foot flame spread and smoke density test tunnel, and an environmental conditioning chamber for the conduct of standard fire tests. Pest Control Section facilities include X-ray equipment, insect rearing chambers, and laboratory space and equipment.

Publications and services: Research results are published in annual and biennial reports, in scientific journals, proceedings of research conferences, and in circulars, bulletins and technical publications, including the following: an Annual Progress Report of the Cooperative Tree Improvement Program; and a Biennial Report of Texas Forest Pest Activity which includes research accomplishments of the Pest Control Section. The Forest Products Laboratory maintains a library that contains documentation of world-wide research on forest products. The Pest Control Section maintains a small library of forest insect and disease literature. Microfiche readers are available.

Cooperation: The institution is willing and in a position to develop applied research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

FOREST RESEARCH LABORATORY
OREGON STATE UNIVERSITY
Corvallis, Oregon 97331

Tel. (503) 754-2221
Telex: 5105960682 OSU COVS

Status: A university institution. Forest products research began in 1941. The Laboratory was established in 1961 and was made independent from the Agricultural Experiment Station in 1966.

Staff: 64 research and development officers (55 Ph.Ds)
115 technicians
48 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest regeneration; forest ecology, culture and productivity; integrated protection of forests and watersheds; evaluation of forest uses, practices and policies; efficiencies in wood and energy use; product and structure performance.

Five percent of the research programme is devoted to fuelwood and energy activities, including assessment of fuelwood potentials; economic aspects; fuelwood production systems; inventory, growth and yield; harvesting and transport methods; industrial aspects of fuelwood conversion, wood preservation, use of residues and pelletization; and environmental aspects.

Training and extension.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: A small herbarium (150 specimens) and a xylarium (2,500 specimens). Other facilities include research and teaching forests, a student self-learning centre, and a media production centre.

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, in scientific journals, and in the following FRL publications: Forestry Update (a quarterly extension newsletter); FIR Report (a quarterly report on technology transfer); FRL Biennial Report. The research results are also used by graduate professionals in Continuing Education Institutes. The Library has some 3,500 scientific and technical volumes; 73 subscriptions to international technical journals.

Cooperation: The Laboratory is involved with training and exchange of information with other national research institutions. At present, 19 research and development staff from 10 developing countries are working or undergoing training in the Laboratory. The Laboratory is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

FOREST SCIENCES LABORATORY
PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE
3200 Jefferson Way
Corvallis, Oregon 97331
Tel. (503) 757-4381
Cables:

Staff: 32 research officers (30 Ph.Ds)
31 technicians
10 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Regeneration, silviculture, forest ecology, genetics, watershed management, forest diseases, forest insects, fish habitat, and forest economics.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, in the proceedings of research conferences and seminars, in technical journals and in Forest Service publications such as: Pacific Northwest Research Note; Pacific Northwest Research Paper; and Pacific Northwest General Technical Report. There is a library (20 scientific and technical volumes) with microfiche readers; 12 subscriptions to international technical journals.

Cooperation: International cooperation includes training, exchange of staff, exchange of information, and funding joint projects. At present, there are 2 visiting scientists from the People's Republic of China, 1 from Canada, 1 from Japan, and 1 from New Zealand. The Laboratory is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

AGRICULTURAL ENGINEERING DEPARTMENT
UNIVERSITY OF CALIFORNIA
Agricultural Engineering Street
Davis, California 95616

Tel. (916) 752-0102
Cables:

Status: A department of the University of California, established in 1909.

Staff: 3 research and development officers (2 Ph.Ds)
2 technicians

Field stations: None

Principal fields of activity:

Research in forest engineering.
Fifteen percent of the research programme is devoted to fuelwood and energy activities.
Training and extension.

The research is conducted mainly in semi-arid lands and in the temperate and mountainous zones.

Special facilities: Engineering shops and laboratories.

Publications and services: Research results are published in annual reports and in "Transactions of the American Society of Agricultural Engineers" (3-4 articles per year), and are disseminated through research conferences and seminars. There is a library with microfiche readers.

Cooperation: The Department has no activities in developing countries but is willing and in a position to strengthen research links with institutions in these countries. At present, 12 students from various developing countries are being trained in the Department. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FORESTRY AND ENVIRONMENTAL STUDIES
DUKE UNIVERSITY
Durban, North Carolina 27707 Tel. 919/684-2135

Status: A university graduate education and research institution founded in 1938.

Staff: 25 research officers (20 Ph.Ds)
4 technicians
9 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

All aspects of natural resource analysis and management, with concentration in program areas of forest management, air and water resources, resource ecology, ecotoxicology, and resource economics and policy. Also maintains centers for forestry investment and resource and environmental policy research.

Special facilities: Various herbaria, a computer network, and the 8500-acre Duke Forest.

Publications and services: Research results are published in annual reports and in the proceedings of research conferences and seminars. Technical papers are published in a wide range of scientific journals. The combined university libraries contain over 3.3 million volumes. The Biology-Forestry Library has about 125,000 volumes and receives about 900 periodicals.

Cooperation: International cooperation is fostered by the University with official links with the South-East Consortium for International Development and the Organization for Tropical Studies. The School is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FOREST RESOURCES
COLLEGE OF LIFE SCIENCE AND AGRICULTURE
UNIVERSITY OF NEW HAMPSHIRE
215 James Hall
Durham, NH 03824 Tel. (603) 862-1020

Status: A department of the University of New Hampshire, established in 1923. The researchers are staff members of the New Hampshire Agricultural Experiment Station, a land grant institution.

Staff: 12 faculty members (all Ph.Ds)
4 technicians (2 M.S., 1 Ph.D, 1 PN-doctoral)
12 research assistants (Masters candidates)

Field stations: 1

Principal fields of activity:

Forest and wildlife biology; natural resources management; and soil and water resources.

Special facilities: A wildlife captive animal facility, a Soil and Water Laboratory, and a Genetics Isozymes Laboratory. An experimental dry kiln. 4,000 acre forest land ownership.

Publications and services: Research results are published in journals and in publications of the NH Agricultural Experiment Station. Printing facilities for research reports and bulletins and reprints of journal articles upon request. Adequate library facilities for graduate studies and forest biology.

Cooperation: The Department collaborates with U.S.D.A., U.S.F.S., the Northeastern Experiment Station, U.S.D.I., the National Park Service, New Hampshire Fish & Game, New Hampshire Forests and Lands, New Hampshire Public Service, and Northeastern Agricultural Experiment Stations. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
MICHIGAN STATE UNIVERSITY
East Lansing, Michigan 48824 Tel. 517/355-0090

Status: An educational institution, accredited by the Society of American Foresters, with the oldest undergraduate forestry curriculum in the United States.

Staff: 28 faculty members
3 resident foresters
1 manager (Tree Research Center)
63 graduate students

Field stations: 4 experimental forests

Principal fields of activity:

Research and teaching in the areas of general forestry, genetics, management, forest economics, wood science, forest ecology, agroforestry, forestry extension and international programs.

Special facilities: Fully equipped laboratories for genetics, tissue culture, soils, ecology, wood science and silviculture. Nursery and greenhouses. 9,000 acres of experimental forests.

Publications and services: The University's Agricultural Experiment Station publishes research reports and general information reports. The Michigan Cooperative Extension Service publishes informational reports. Both agencies are used to publish forestry reports. Services include tours, publications, public workshops and specialized meetings. The library system has 3,000,000 volumes and is composed of a main library, supplemented by college and departmental libraries. The Department of Forestry does not maintain a supplementary library.

Cooperation: Cooperative links with numerous international, federal, state and county institutions, both public and private. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

AGRICULTURAL AND FORESTRY EXPERIMENT STATION
SCHOOL OF AGRICULTURE AND LAND RESOURCES MANAGEMENT
UNIVERSITY OF ALASKA
Fairbanks, Alaska 99775-0080 Tel. 907/474-7188

Status: The School is a university unit with teaching, research and public service responsibilities. The Experiment Station has the primary research responsibility for agriculture, forestry and land resources, except for wildlife and geology.

Staff: 16 research and teaching staff associated with forest resources
4 other (administrative)

Field stations: 2

Principal fields of activity:

In forest resources: forest management, silviculture, hydrology, forest recreation, forest harvesting, resource economics, reindeer management, forest soils, growth and yield.

Special facilities: The School has access to the University of Alaska Museum's herbarium and cooperates with the Institute of Arctic Biology; the School cooperates with the USDA Forest Service Institute of Northern Forestry.

Publications and services: Research results are published as journal articles, in proceedings, in an annual report, and as station bulletins and circulars, and are presented orally at appropriate conferences. The Station publishes annually or semi-annually the journal "Agroborealis". The School has access to the Rasmussen Library at the University of Alaska and through it to all libraries within the State.

Cooperation: The Station is interested in developing and maintaining research links with public and private organizations interested in the boreal forests of North America Europe and Asia. It is a member of IUFRO.

Official working language: English.

U.S.A.

INSTITUTE OF NORTHERN FORESTRY
PACIFIC NORTHWESTERN RESEARCH STATION
FOREST SERVICE, U.S.D.A.
308, Tanana Drive
Fairbanks, Alaska 99775- 5500 Tel. 907/474-7443

Status; A public institution of the Forest Service, U.S. Department of Agriculture.

Staff: 12 research scientists
4 technicians
5 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Silviculture, regeneration, forest ecology and management, plant ecology, watershed management, water quality, forest insects, wildlife habitat, fire behaviour, forest genetics.

Special facilities: Bonanza Creek Experimental Forest; Caribou-Poker Creek Experimental Watershed; Washington Creek Fire Behavior Experimental Area.

Publications and services: Research results are published in annual reports, in seminars and conferences, in technical journals, and in Forest Service publications as research notes, papers, and general technical reports. Reprints of technical papers are available. The Institute has access to the library facilities of the University of Alaska.

Cooperation: The Institute cooperates with U.S. and Canadian universities and government agencies, international commissions and advisory groups, and Alaska state and native corporations. It is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FOREST AND WOOD SCIENCES
COLORADO STATE UNIVERSITY
Fort Collins, Colorado 80523

Tel. (303) 491-6637
Cables:

Status: A university teaching and research department founded in 1905 and now one of the largest departments at Colorado State University.

Staff: 22 research and teaching staff (21 Ph.Ds)
7 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Land-use planning, fire management science, wood engineering and mechanics, wood products, biometry, and tree improvement.
Five percent of the research programme is devoted to fuelwood and energy activities, including socio-economic aspects, silviculture, yield, harvesting and properties, industrial technology, comparison with alternative fuels, wood-based derivatives, and environmental aspects.
Training and extension.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: A herbarium with 200 specimens. There are also computer facilities.

Publications and services: Research results are published in the proceedings of research conferences and seminars. There is a library with 800,000 scientific and technical volumes; 200 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Department cooperates in training, exchange of staff, exchange of information, and in funding projects jointly with other national research institutions. At present, 9 research and development staff from 4 different countries (Brazil, Mexico, Pakistan and South Korea) are being trained in the Department. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: English.

U.S.A.

ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
240 W. Prospect Street
Fort Collins, CO 80526 Tel. 303/224-1100

Status: A public institution of the Forest Service, U.S. Department of Agriculture, founded in 1935.

Staff: 65 scientists and supporting staff

Field stations: 7

Principal fields of activity:

Timber management research; forest hydrology; range, wildlife and fish habitat research; forest economics; recreation; and insect and disease research.

Special facilities: None

Publications and services: Research findings are published in all major journals in the fields listed above.

Cooperation: Cooperative links with numerous public and private organizations. The Station is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
SCHOOL OF FORESTRY AND WOOD PRODUCTS
MICHIGAN TECHNOLOGICAL UNIVERSITY
Houghton, Michigan 49931 Tel. 906 487/2454

Status: A public university. The Department offers academic programs and conducts research in forestry and wood and fiber utilization.

Staff: 20 faculty members and research staff.

Field stations: 1

Principal fields of activity:

Forest management, wood and fiber utilization, forest soils.

Special facilities: -

Publications and services: -

Cooperation: -
The Department is a member of IUFRO.

Official working language: English.

U.S.A.

INSTITUTE OF WOOD RESEARCH
MICHIGAN TECHNOLOGICAL UNIVERSITY
College Avenue
Houghton, MI 49931 Tel. 906/487-2464

Status: A research institution established in 1947 as part of Michigan Technological University.

Staff: 12 research staff
12 support personnel

Field stations: Field sites in Florida, Panama and Hawaii.

Principal fields of activity:

Wood- and fiber-based composites; pulping chemistry; chemicals from forest biomass; wood products preservation; forest products marketing and financial analysis.

Special facilities: A computer-controlled full-size hot press, a fungus cellar for accelerated decay testing, and a mini mill wood digester.

Publications and services: Research results are published in international technical journals and contractor reports. The Institute maintains a library with forest products and related journals as well as books and serials. This internal library is accessed through computer retrieval, including abstracts and key-words. The Institute carries out on-line searching of machine-readable data bases. The University's main library carries other forestry- and forest products-related holdings.

Cooperation: Cooperative projects with several other laboratories both within and outside the U.S. The Institute is willing and in a position to expand research links with other institutions. It is a member of IUFRO.

Official working language: English.

U.S.A.

FORESTRY SCIENCES LABORATORY
PACIFIC NORTHWEST RESEARCH STATION
FOREST SERVICE, U.S.D.A.
P.O. Box 909
Juneau, Alaska 99802 Tel. 907/586-8811

Status: A research laboratory of the Forest Service, U.S. Department of Agriculture.

Staff: 15 scientists
9 technicians
8 other

Field stations: none

Principal fields of activity:

Ecology and management of forest and associated ecosystems in coastal Alaska, including effects of harvest disturbance, vegetation management, soil variability, stocking control, and fertilization on timber productivity; effects of natural factors and management activities on habitat of Sitka black-tailed deer, dusky Canada goose and moose; effects of natural factors and management activities on slope and channel stability, and sedimentation and water quality in streams; effects of disease and beneficial fungi on forest productivity.

Effects of old-growth silvicultural systems on resource productivity; effects of second-growth management systems on resource productivity; optimization of resource consumption and demand.

Protection, rehabilitation, and enhancement of anadromous fish habitat, including habitat requirements of anadromous salmonids; effects of land use activities on anadromous fish habitat; rehabilitation and enhancement of anadromous fish habitat.

Special facilities: A herbarium and an insect collection.

Publications and services: Research results are published in annual reports, proceedings of conferences, technical journals, and in Forest Service publications such as Pacific Northwest Research Station General Technical Reports, Research Papers, Research Notes, and Research Bulletins. The Library contains 2,500 books and 35,000 scientific and technical reports. It subscribes to 200 journals.

Cooperation: The Laboratory is willing and in a position to strengthen research links with developing countries. It is not a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES
UNIVERSITY OF TENNESSEE
P.O. Box 1071
Knoxville, Tennessee 37901-1071 Tel. 615/974-7126

Status: A teaching, research and extension department which is part of a large comprehensive State University.

Staff: 21 research officers (17 Ph.Ds)
5 extension officers (5 Ph.Ds)
5 adjunct research faculty (5 Ph.Ds)
4 technicians
8 other

Field stations: 5

Principal fields of activity:

Many aspects of research, including:

- Center for oak (Quercus) studies;
- Tree genetics and cytogenetics.
- Wood utilization, drying and composite board research.
- Wildland recreation management and planning.
- Wildlife ecology, both mammals and birds.
- Fisheries ecology and farming.
- Forest silviculture and ecology.
- Forest economics, management and inventory.

The emphasis is on individual research as well as on research on integrated natural resources, including linkages between forestry, agriculture, wildlife and fisheries.

Special facilities: -

Publications and services: Publications appear in scientific and professional journals, proceedings, and various types of other reports including the Tennessee Agricultural Experiment Station Bulletin and Research Reports. There is a comprehensive College of Agriculture and University library system.

Cooperation: The Department has many domestic cooperative agreements and research relationships. Research activities at the international level have included Europe, Asia and, above all, South America. The Department is a member of IUFRO.

Official working language: English.

U.S.A.

FOREST PRODUCTS LABORATORY
FOREST SERVICE, U.S.D.A.
One Gifford Pinchot Drive
P.O. Box 5130
Madison, Wisconsin 53705-2398 Tel. (608) 264-5600

Status: A public institution of the Forest Service, U.S. Department of Agriculture, established in 1910.

Staff: 100 research officers (30 Ph.Ds)
130 technicians
60 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

All aspects of forest products utilization research, including wood chemistry, wood protection, wood anatomy, forest mycology, wood processing research, and improved adhesives for wood.
Research on fuelwood forms only a small component of the research programme, but involves the economic aspects of fuelwood production from pure crops, use of residues, transport costs, inventory, harvesting and transport methods, industrial technology of processing and conversion of wood and residues, comparison with other fuels, gasification, and production of methanol, ethanol and liquid fuel technology.
Extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: A xylarium with over 100,000 specimens.

Publications and services: Research results are published in four series of numbered reports - research papers, research notes, general technical reports and resource bulletins. Most lab-authored papers are published in journals and conference proceedings. There is a library with 118,000 scientific and technical volumes. It receives over 400 journals, many of which are non-technical. Microfiche readers are available.

Cooperation: International cooperation includes training and exchange of staff and of information. The Laboratory has cooperated with developing countries in carrying out research on the solar drying of wood. It is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY
KANSAS STATE UNIVERSITY
2610 Claflin Road
Manhattan, Kansas 66502

Tel. (913) 532-5752
Cables:

Status: A university teaching and research department founded in 1951.

Staff: 7 research officers (4 Ph.Ds)
4 technicians
4 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Economics of forest production; tree improvement and genetics; soil and site relationships; plantation establishment; wood biomass yield studies (energy and fuel); timber stand improvement; herbicides.
Forty percent of the research programme is devoted to fuelwood and energy research activities, including socio-economic aspects, silviculture, yield, harvesting, properties, economic efficiency compared with alternative fuels, and gasification.
Training, extension and development.

The research is conducted mainly in the semi-arid lands and temperate zone.

Special facilities: The Kansas State University maintains a herbarium with 170,000 specimens.

Publications and services: Research results are published in the proceedings of research conferences and seminars and in international technical journals. The Department also issues special publications through the Kansas Agricultural Experiment Station. It uses the main library of the University which possesses 200,000 scientific and technical volumes; 14 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: International cooperation includes exchange of staff and exchange of information. The Department is willing and is in a position to develop research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FOREST RESOURCES
MISSISSIPPI STATE UNIVERSITY
P.O. Drawer FR
Mississippi State, MS 39762 Tel. 601/325-2696

Status: A university teaching and research institution established in 1967 with responsibilities for forestry, forest products and related research and education programs undertaken within the Mississippi Agricultural and Forestry Experiment Station and the Mississippi Forest Products Laboratory. The School comprises three departments: Forestry, Wood Science and Technology, and Wildlife and Fisheries.

Staff: 41 research and teaching faculty
32 research support personnel
19 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Applied and basic research in forest biology, biometry, management and harvesting; in wood chemistry, protection, processing and adhesives; in wildlife habitat management and biology; and in freshwater fisheries management and commercial aquaculture. Research focuses primarily on, but is not limited to, species and systems of importance to the southern United States.

Special facilities: Forest properties, state-of-the-art computer facilities, and specialized research laboratories. The Forest Products Laboratory is the largest state-assisted forest products research facility in the United States.

Publications and services: Research results are published in scientific and professional journals, in Experiment Station and Laboratory publications, and in other printed outlets for specialized readers. Approximately 25 percent of the books, periodicals and journals in the MSU Mitchell Memorial Library support the research reference requirements of the School's programs.

Cooperation: The School undertakes cooperative research with public agencies, forest products companies, and other organizations. Specialized programs of technology transfer are conducted under contract to client organizations. Symposia and conferences are presented to members of specialized scientific, professional and technical communities. The School is a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FORESTRY
UNIVERSITY OF MONTANA
Missoula, MT 59812

406/243-4494

Status: A university teaching and research institution established in 1913.

Staff: 25 researchers (21 Ph.Ds)
3 technicians
17 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

Forest resources management (including measurements, timber management, protection, etc.).
Range management.
Recreation management.
Wildlife biology.
Resource conservation.

Special facilities: The School of Forestry maintains a modern forestry center capable of handling seminars and conducting research located at its experimental forest (29,000 acres).

Publications and services: Research progress reports are published in annual reports, and research publications and notes are published on a continuing basis through the Montana Forest and Conservation Experiment Station in scientific journals or in symposia proceedings. A collection of scientific and technical forestry books and documents is housed in the central university library.

Cooperation: The School houses an extension forester in cooperation with the Cooperative Extension Service. Cooperation has begun with China in developing new ways to process lumber. The School is a member of IUFRO.

Official working language: English.

U.S.A.

COLLEGE OF FORESTRY, WILDLIFE AND RANGE SCIENCES
UNIVERSITY OF IDAHO
Moscow, Idaho 83843

Tel. 208/885-6441
Telex: 5107760923 UI CID MOCW

Status: A university college integrating research and teaching in the departments of Forest Resources, Forest Products, Wildland Recreation Management, Fish and Wildlife Resources, and Range Resources. The forestry program at the University of Idaho began in 1909 and awards B.S., M.S., M.F., and Ph.D degrees.

Staff: 62 faculty staff

Field stations: There are 4 field stations: Taylor Ranch Wilderness Research Area, Clark Fork Field Campus, McCall Field Campus, and Lee A. Sharp Experimental Range Area.

Principal fields of activity:

Silviculture, tree improvement/genetics, forest ecology, forest entomology/pathology, forestry economics, forest planning, international forestry, mensuration, harvesting/road construction, forest products, fishery resources, wildlife resources, wildland recreation management, remote sensing/aerial photography, agroforestry, range sciences.

Special facilities: University Experimental Forest (7,100 acres); forestry nursery and greenhouses; Cooperative Fish and Wildlife Research Unit; Cooperative Park Studies Unit; Wilderness Research Center; Remote Sensing Center; Tree Improvement Cooperative; Tree Nutrition Cooperative.

Publications and services: The College publishes "Focus" - an annual magazine describing college research activities; the "Idaho Forester" - an annual student magazine; "Synthesis" - a newsletter for professional foresters describing research and other activities in the College and listing publications. Various research papers are published as research is completed. Library facilities consist of: the University of Idaho Library (1,520,335 volumes); Title XII Strengthening Grant International Library; Range Resources Library; Fisheries/Wildlife Library.

Cooperation: The College is working with Winrock International on a Forestry Network in Southeast Asia. It is also a member of the Consortium for International Development (CID). Currently, there are 41 international graduate and undergraduate students in the College. The Faculty personnel are active participants in USAID technical assistance programs. The College is a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FORESTRY
STEPHEN F. AUSTIN STATE UNIVERSITY
P.O. Box 6109
Nacogdoches, Texas 75962 Tel. (409) 569-3304

Status: A university teaching and research department established in 1947.

Staff: 19 research officers (18 Ph.Ds)
2 technicians
7 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forest management, silviculture, hydrology, wood products and forest ecology; forest wildlife management; forest recreation management; forest entomology (integrated pest management).
Ten percent of the research programme is devoted to fuelwood research, including social aspects, silvicultural methods, pests and diseases, fire control systems, growth and yield, chemical content, pyrolysis, gasification, and liquid fuel technology.
Training.

The research is conducted mainly in the sub-tropical and temperate zones.

Special facilities: The School possesses a plant materials centre.

Publications and services: Research results are published in annual reports and in international technical journals, and are disseminated through research conferences and seminars. The library has 61,050 scientific and technical volumes; 150 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: Research activities in developing countries involve lumber marketing. The School also trains research and development staff from developing countries; 4 persons from 3 countries are at present being trained. The School is willing and is in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FORESTRY AND ENVIRONMENTAL STUDIES
YALE UNIVERSITY
205 Prospect Street
New Haven, Connecticut 06511

Tel. 203/436-0577
Telex: 51010772363 Yale F&ES

Status: A functioning research and graduate educational institution within Yale University.

Staff: 26 faculty (7 affiliated faculty, 22 staff)

Field stations: 3

Principal fields of activity:

Ecosystem ecology, silviculture and management technology, tropical resources, policy and economics.

Special facilities: 10,000-acre experimental forest; Greeley Memorial Laboratory, wind tunnel, geographic information systems hardware and software.

Publications and services: A Bulletin series begun in 1912 (number 94 last publication); a network for forest microbiology; development of a general international network for information exchange among diverse disciplines related to forestry, natural resources management, and environmental protection. The School maintains a library with over 130,000 volumes on forestry and environmental studies. There is a professional librarian supported by two clerical assistants. General science, geology, engineering and social science libraries exist close-by. The University Library system contains more than six million volumes.

Cooperation: Cooperative agreements have been signed with many institutions, particularly through the Tropical Resources Institute: Department of Natural Resources, Puerto Rico; Center for Energy and Environment Research (CEER); Institute of Tropical Forestry (U.S.D.A.); Centro Agronómico Tropical de Investigación y Enseñanza (CATIE), Turrialba, Costa Rica; Purdue University; Northeastern Forestry University, Harbin, China. Agreements are pending with several other universities in the U.S.A., the Arnold Arboretum of Harvard, and the New York Botanical Garden. The School collaborates with various universities, research stations and plantation owners in Puerto Rico and Virgin Islands. Informal ties exist with CARE, the International Institute for Education and Development, the International Council for Research in Agroforestry, the Nature Conservancy, the Smithsonian Institution, the World Resources Institute, the World Wildlife Fund, the University of Agricultural Sciences (Bangalore, India), the Himachal Pradesh University of Agriculture and Forestry (Solan, India), and the Tamil Nadu Agricultural University (Coimbatore, India). Grants have been awarded to the School by the Tinker Foundation for the establishment of a Latin American program of natural resource education, as well as by the Ford Foundation to evaluate the use of video to provide forestry education to rural people in India. The School is a member of IUFRO.

Official working language: English.

U.S.A.

SOUTHERN FOREST EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
U.S. Postal Services Building, Room T-10210
701 Loyola Avenue
New Orleans, Louisiana 70113

Tel. (504) 589-6787
Cables:

Status: A public research institution founded in 1921 and resoonsible for the forestry research programme in the 7 mid-south States and Puerto Rico.

Staff: 89 research officers (60 Ph.Ds)
98 technicians
59 other (administrative/secretarial)

Field stations: 11

Principal fields of activity:

Timber management; forest insects and diseases; forest products utilization; forest engineering; forest inventory and analysis; renewable resources economics.
Ten percent of the research programme is devoted to fuelwood and energy research, including socio-economic aspects, silviculture, yield, harvesting and properties, processing, preservation and use of residues, economic efficiency of fuelwood compared with alternative fuels, wood-based derivatives, chemicals and adhesives, and the environmental impact of fuelwood production.
Training, extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: The Station maintains a herbarium.

Publications and services: Research results are published in annual reports, research reports and technical journals, and are disseminated through research conferences, seminars and demonstrations. Recent publications include: a listing of publications by Station researchers (quarterly), a Research Paper, a Research Note, and a General Technical Report. The Station maintains a library with 75,000 scientific and technical volumes; 200 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Station has cooperated in forest management research in the Caribbean and in Latin American countries. Other formal international links include training, exchange of information, and funding of joint research projects. At present, 30 research and development staff from many developing countries are working or being trained at the Station in various aspects of forestry research. The Station is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

INTERMOUNTAIN RESEARCH STATION
FOREST SERVICE, U.S.D.A.
324 - 25th Street
Ogden, UT 84401

Tel. 801|625-5434

Status: A public institution of the Forest Service, U.S. Department of Agriculture.

Staff: 200 scientists, technicians and other personnel

Field stations: 8 Forestry Sciences, 1 Shrub Sciences

Principal fields of activity:

Hub of Federal Forest and Rangeland research activities in Montana, Idaho, Utah and Nevada.

Special facilities: Three experimental forests.

Publications and services: Research results are published in annual reports, research papers, research notes, general technical reports, and resource bulletins, and are disseminated through research conferences and seminars. Interlibrary loans, document request in forestry-related subject area (public services).

Cooperation: The Station exchanges information with other research organizations. It is a member of IUFRO.

Official working language: English.

U.S.A.

COLLEGE OF FOREST RESOURCES
UNIVERSITY OF MAINE
202 Nutting Hall
Orono, Maine 04469

Tel. (207) 581-2844

Status: A university educational and research institution. Faculty teaching and research began in 1903 at the College of Agriculture. A separate College of Forest Resources was created in 1982. The College now has three departments: Forest Biology, Forest Management and Wood Utilization, and Wildlife.

Staff: 40 research and teaching staff (32 Ph.Ds)
14 technicians
12 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

All aspects of forest resources research.
Ten percent of the research programme is devoted to fuelwood and energy research, including socio-economic aspects, silviculture, inventory, growth and yield studies, harvesting and transport methods, industrial research and technology of fuelwood conversion and use, comparison with alternative fuels, and environmental impact.
Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: The College maintains a herbarium, a forest products lab, a remote sensing lab, a graphics lab, a sawmill, a penned large mammal area, and a forest engineering lab.

Publications and services: Research results are published in annual reports, in refereed journals, and in the proceedings of research conferences and seminars. Other publications include various types of reports, issued irregularly (Main Agricultural Experiment Station and Cooperative Forestry Research Unit) and College of Forest Resources technical notes (irregular issues). Approximately 8 publications related to fuelwood production and use are issued per year. The College uses the large central library of the University. Microfiche readers are available.

Cooperation: The College cooperates in the exchange of staff and exchange of information, and in research on agroforestry and fuelwood plantations in Costa Rica and Haiti. Several staff from developing countries are working or undergoing training at the College. The College is a member of IUFRO.

Official working language: English.

U.S.A.

FOREST HYDROLOGY LABORATORY
SOUTHERN FOREST EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
P.O. Box 947
Oxford, Mississippi 38655

Tel. (601) 234-2744
Cables:

Status: A public laboratory of the Forest Service, U.S. Department of Agriculture. The laboratory was founded in 1946 and was largely built up in 1968.

Staff: 5 research and development officers (1 Ph.D)
5 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Watershed management, forest land hydrology, timber management research, particularly the growth and yield of mountain hardwoods.

The research is conducted mainly in the temperate and mountainous zones.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, technical journals and in U.S. Forest Service publications, and are disseminated through research conferences and seminars. There is a library with 3,000 scientific and technical volumes.

Cooperation: International cooperation includes training and the exchange of staff. The Laboratory is willing and is in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A

PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
319 S.W. Pine
P.O. Box 3890
Portland, Oregon 97208 Tel. 503/294-5643

Status: A public institution of the Forest Service, U.S. Department of Agriculture. The Station was founded in 1924, although research on nursery problems had begun at the Wind River nursery in 1910. In 1967, the Institute of Northern Forestry (formerly the Northern Forest Experiment Station in Alaska) was combined with the PNW Station.

Staff: 143 research officers (75 Ph.Ds)
53 technicians
73 other (administrative/secretarial)

Field stations: 10

Principal fields of activity:

Genetics, tree improvement of western conifers; silvicultural techniques of western conifers; endangered species management; integrated pest management; fire and smoke management; forest economics; forest inventory and analysis; anadromous fish habitat; wildlife biology; forest harvesting; timber quality and yield; and dispersed recreation.

Special facilities: Experimental forests, research natural areas.

Publications and services: Research results are published in annual reports, scientific papers (approx. 300 per year), technical journals and books, and are disseminated at research conferences and seminars. The following pubications are issued: PNW Station Research Papers; PNW Station Research Notes; PNW Station Resource Bulletin; and PNW Station General Technical Reports.

Cooperation: The Station is interested in strengthening research links with developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

WOOD ENGINEERING LABORATORY
WASHINGTON STATE UNIVERSITY
Wood Engineering Building
Pullman, Washington 99164-3020

Tel. 509/335-2262
Telex: 510-774-1099

Status: A public research institution conducting State, Federal and Industrial research.

Staff: 7 faculty
6 technical assistants
1 editor
1 secretary

Field stations: -

Principal fields of activity:

Research and Education.
Research concentrates on composition board, composites, adhesives, gluing processes, mechanical and physical properties of wood and wood materials, non-destructive testing, and innovative means for constructing with wood.

Special facilities: Excellent laboratory facilities (approximately 2,325 sq. m.).

Publications and services: Research results are published in scientific and technical journals. Proceedings are published of the Washington State University Particleboard/Composite Materials Symposium, Washington State University, and Non-Destructive Testing of Wood Symposium. University and laboratory libraries are at the disposal.

Cooperation: Cooperative projects are conducted with industries, other universities, the U.S. Forest service, FAO, and UNIDO. The Laboratory is a member of IUFRO.

Official working language: English.

U.S.A.

UNIVERSITY OF CALIFORNIA FOREST PRODUCTS LABORATORY
47th and Hoffman Boulevard
Richmond, California 94804 Tel. (415) 231-9452

Status: A research institute of the University of California, founded in 1956.

Staff: 17 research and development officers (12 Ph.Ds)
5 technicians
13 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Physics and chemistry of physical and chemical processing of wood; tree growth and wood formation; biodeterioration; properties and performance of wood; adhesives and composite products; mechanical behaviour and mechanical processing; saw design and performance; and fire research.
Five percent of the research programme is devoted to fuelwood and energy research and involves processing and conversion of fuelwood, wood preservation, use of residues, technical and economic aspects in comparison with other fuels, pyrolysis, gasification, and methanol, ethanol and liquid fuel technology.
Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: A xylarium with 13,000 specimens.

Publications and services: Research results are published in annual reports and in the proceedings of research conferences, seminars and workshops. Technical articles (20-25 per year) are also published in international technical journals. The Laboratory maintains a library with 8,000 scientific and technical volumes; 130 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: International cooperation includes higher level training, exchange of staff, and exchange of information. At present, 11 research and development staff from 7 developing countries are undergoing training in a wide range of forest products research topics. The Laboratory is willing and is in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

UNION CAMP WOODLANDS RESEARCH
Highway 21, South
P.O. Box 216
Rincon, Georgia 31326

Tel. (912) 826-5556
Telex: 546528 (Savannah Woodlands)

Status: A private research institution of the Union Camp Corporation, founded in 1952.

Staff: 9 research officers (1 Ph.D)
21 technicians
9 other (administrative/secretarial)

Field stations: 2

Principal fields of activity:

Silviculture of pines and hardwoods; tree improvement of pines and hardwoods; soils; pest management - insects, diseases and vegetation; nursery technology; and timber harvesting. Research on fuelwood production includes silviculture of fuelwood species, growth and yield studies, density, and calorific values of fuelwood species.
Training, extension and development.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports, technical journals and progress reports, and are disseminated through research conferences and seminars.

Cooperation: (information not available) The institution is a member of IUFRO.

Official working language: English.

U.S.A.

PACIFIC SOUTHWEST AND RANGE EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
4955 Canyon Crest Drive
Riverside, California 92507

Tel. (714) 351-6555
Cables:

Status: A research station of the Forest Service, U.S. Department of Agriculture.

Staff: 27 research officers (14 Ph.Ds)
24 technicians
13 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Fire, including studies on meteorology and fire economics; hydrology; soils and nutrients; biomass studies; silviculture, including seed research, silvicultural methods, pests and diseases; inventory of fuelwood resources; and impact of fuelwood production and use on the environment.

The research is mainly conducted in the arid, semi-arid, temperate and mountainous zones.

Special facilities: A herbarium with 500 specimens.

Publications and services: Research results are published in annual reports, in the proceedings of research conferences, in technical journals, and in occasional publications of the Station (i.e. general technical reports). There is a small library with microfiche readers; 4 subscriptions to international technical journals.

Cooperation: The Station is willing and in a position to develop research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

COLLEGE OF FORESTRY
UNIVERSITY OF MINNESOTA
110 Green Hall
1530 Cleveland Avenue S.
St. Paul, Minnesota 55108

Tel. (612) 373-0825
Cables:

Status: A university teaching and research institution, founded in 1903 as School of Forestry. It became College of Forestry in 1971. The College has now three departments: Forest Resources, Forest Products, and Fisheries and Wildlife.

STaff: 44 research and teaching staff (29 Ph.Ds)
33 technicians
20 other (administrative/secretarial)

Field stations: 1

Principal fields of activity:

A wide range of activities are carried out in each of the three departments of the College. Five percent of the research programme is devoted to fuelwood and energy research, including socio-economic aspects, silviculture of fuelwood species and systems, yield, harvesting and properties, industrial technology, comparison with other fuels, wood-based derivatives, and environmental impact of fuelwood production and use.
Extension and training.

The research is mainly conducted in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in technical reports, in the proceedings of research conferences and seminars, in the Agricultural Experiment Station Bulletin of the University, and in forestry series and research staff papers (several of which are published annually), as well as in a wide range of other University of Minnesota and U.S.D.A. publications. The library has 20,591 scientific and technical volumes; 979 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The College of Forestry has links with many national research organizations with regard to staff training, exchange of staff and exchange of information. At present, 20 research and development staff from 18 developing countries are working or undergoing training at the College. The College is cooperating in research with the Institut Agronomique et Vétérinaire Hassan II in Morocco. The College is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

NORTH CENTRAL FOREST EXPERIMENT STATION
1992 Folwell Avenue
St. Paul, Minnesota 55108 Tel. 612/642-5207

Status: A public institution of the Forest Service, U.S. Department of Agriculture, established in 1923 as the Lake States Forest Experiment Station which became the North Central Station in 1966. The Station serves seven north-central States.

Staff: 71 research officers (48 Ph.Ds)
54 technicians
125 other (administrative/secretarial)

Field stations: 8

Principal fields of activity:

Forest management, silviculture, forest entomology and pathology, forest fire, forest hydrology, economics, engineering, harvesting, wood utilization, wildlife habitat, forest inventory, genetics, recreation.

Special facilities: none

Publications and services: Research results are published in several Station series publications (research notes, research papers, general technical reports), in various symposia proceedings, and in many national and international scientific, technical, trade, and conservation journals. There are complete library services provided for Station personnel. The library subscribes to about 250 journals.

Cooperation: The Station exchanges information with other research agencies, both national and international. It is willing and in a position to develop research links with institutions in developing countries. The Station is a member of IUFRO.

Official working language: English.

U.S.A.

COLLEGE OF NATURAL RESOURCES
UNIVERSITY OF WISCONSIN
Stevens Point, WI 54481

Tel. (615) 346-4617

Status: A teaching and research institution established in 1894 as a teachers' college. A conservation program was initiated in 1948 at the University. This program evolved into a Conservation Department in 1956, a Natural Resources Department in 1965, and a College of Natural Resources in 1972.

Staff: 72 teaching and research staff (40 Ph.Ds)
8 technicians
5 other

Field stations: 3

Principal fields of activity:

Applied research in the various disciplines within the College. Of special interest is forest productivity, fire management, forest protection, genetics, biometrics, forest soils, silvics, silviculture, and urban forestry.

Research is conducted in the temperate zone.

Special facilities: A herbarium and paper science laboratories.

Publications and services: Research results are published in the proceedings of research conferences and seminars and in other miscellaneous publications. The College maintains a library with microfiche readers; 25 subscriptions to international technical journals.

Cooperation: The College cooperates with various State and Federal agencies. A U.S.Department of Interior - Fisheries Cooperative Unit is located on the campus. The College also exchanges research and teaching staff with other national research organizations. It is willing and in a position to develop research links with other institutions in developing countries. The College is a member of IUFRO.

Official working language: English.

U.S.A.

WESTVACO FOREST RESEARCH
P.O. Box 1950
Summerville, SC 29484

Tel. 803/871-5000

Status: A private research institution of Westvaco Corporation established in 1944.

Staff: 30 research officers
24 technicians
9 other (administrative/secretarial)

Field stations: 4 (3 in USA, one in Brazil)

Principal fields of activity:

Tree improvement of pines and hardwoods; plantation-silviculture of pines and hardwoods; natural silviculture of hardwoods; biometry.

Special facilities: Chromatography laboratory, tissue culture laboratory, soil analytical laboratory, accelerated breeding facility.

Publications and services: Research results are published in the proceedings of research conferences and symposia, and in referred scientific journals. Internal company reports are not available. A small library is maintained to provide access to materials required by scientists.

Cooperation: Specific research projects are sponsored at selected universities, as well as membership in several industry-university cooperatives. The Company is a member of IUFRO.

Official working language: English.

U.S.A.

S.U.N.Y COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY
313 Bray Hall
Syracuse, New York 13210

Tel. (315) 470-6606
Cables: SUNYCESF SYR
Telex: 7105410555

Status: A public institution, organized in 1911. It became part of the State University of New York system in 1948 and was rechartered in 1972. It is at present a public institution in charge of instruction, research and public services in environmental science and forestry.

Staff: 193 research and teaching staff (90% Ph.Ds)
64 technicians
102 other (administrative/secretarial)

Field stations: 9

Principal fields of activity:

Biology and management of forest ecosystems; chemical ecology, environmental chemistry, biological pest control and environmental health; utilization of forest and rural resources; enhancement of environmental quality, and efficiency of processes involved in using water and timber and in producing wood and paper products; physical design and planning for human environments; environmental management policy and programme analysis.

Five percent of the research programme is devoted to fuelwood and energy studies, including socio-economic aspects, silviculture of fuelwood species, growth and yield studies, industrial technology of fuelwood processing and conversion, wood-based derivatives, and environmental impact of fuelwood production.

Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: A herbarium with over 50,000 specimens, a xylarium with over 40,000 specimens, insect and vertebrate collections, and a vertibrate museum.

Publications and services: Research results are published in the proceedings of research conferences and seminars, and in technical publications released at irregular intervals. Scientific papers are published in international technical journals. The library has 87,000 scientific and technical volumes; 1,225 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: Formal international research links include training, exchange of staff, exchange of information, funding of joint projects, and exchange of students. The College participates in technical assistance in support of developing forestry educational and research institutions such as the Forestry Research Institute, Yezin, Burma, and the College of Forestry, University of the Philippines at Los Baños. At present, 24 research and development staff from 7 developing countries are being trained at the College. The College is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

WEYERHAEUSER COMPANY
WTC 2H19
Tacoma, Washingtons 98477

Tel. (206) 924-6034
Telex: 327404

Status: A research and development organization within a private forest products company. Founded in 1948, the organization has grown to the present level of approximately 850 employees.

Staff: 118 research and development officers (48 Ph.Ds)
191 technicians
71 other (administrative/secretarial)

Field stations: 1 (Brazil)

Principal fields of activity:

Forestry research, solid wood products research, fibre research, and energy and environmental research.
Five percent of the research is devoted to fuelwood and energy studies, including economic aspects, fuelwood production from pure crops, use of prunings and logging residues, transport costs; inventory, growth and yield; harvesting and transport methods; density and calorific value; industrial technology of processing and converting fuelwood; wood preservation; use of residues and suspension burning of wood; comparison with other fuels; pyrolysis, gasification; and environmental aspects of fuelwood production.
Training and development.

The research is conducted mainly in temperate zones.

Special facilities: (information not available)

Publications and services: Research results are published in the proceedings of research conferences, in internal company reports, presentations to business clients, and in occasionally published research and development technical reports. The library has 30,000 scientific and technical volumes; 764 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Company cooperates with a Brazilian industrial company in tree improvement research. Other formal research links include exchange of staff and funding of joint projects. The Company is willing and in a position to strengthen research links with institutions in developing countries. It is a member of IUFRO.

Official working language: English.

U.S.A.

FORESTRY SCIENCES LABORATORY
ROCKY MOUNTAIN FOREST & RANGE EXPERIMENT STATION
FOREST SERVICE, U.S.D.A.
Arizona State University Campus
Tempe, Arizona 85287 Tel. 602/261-4365

Status: A public institution of the Forest Service, U.S. Department of Agriculture. The Station was founded in 1935; the Tempe Laboratory in 1964.

Staff: 9 research officers (6 Ph.Ds)
1 unit manager
8 technicians (incl. computer programmer)
4 other (administrative/secretarial)

Field stations: 2 (Santa Rita Experimental Range and Sierra Ancha Experimental Forest)

Principal fields of activity:

Effects of livestock grazing on riparian communities, classification of riparian communities, silvics of trees important in riparian communities.

Erosion rates and processes, fire effects on soils, and water yield augmentation on chaparral vegetation.

Erosion and fire effects on soils in pinyon-juniper ecosystems.

Special facilities: A herbarium with about 8,000-10,000 specimens from Arizona and New Mexico.

Publications and services: Research results are published in technical journals, proceedings of conferences and symposia, and in Forest Service and U.S.D.A. publications such as research notes, research papers, general technical reports, etc. There is a small working library containing journals and books for laboratory scientists. The Laboratory has access to the libraries of Arizona State University and the U.S. Department of Agriculture.

Cooperation: National cooperation is maintained with most universities in Arizona and New Mexico, as well as federal agencies such as National Forest Systems and the Agriculture Research Service. Extensive international cooperation exists, primarily with Mexico. The Laboratory is at present assisting 4 Mexican foresters with a training program through Arizona State University. It is not a member of IUFRO.

Official working language: English.

U.S.A.

AMERICAN PULPWOOD ASSOCIATION
1025 Vermont Avenue, N.W.
Washington, D.C. 20036
Tel. (202) 347 2900

Status: A private research association founded in 1934 as a government relations action. Technical research activities began in 1945.

Staff: 4 technicians
2 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Harvesting and transportation; industrial forest management; injury prevention.
Two percent of the research programme is devoted to fuelwood and energy studies, including inventory of fuelwood resources, growth and yield studies, and harvesting and transport methods.
Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: None

Publications and services: Research results are published in annual reports, and technical releases and reports (approx. 100-150 releases per year). The library has 1,000 scientific and technical volumes; 30 subscriptions to international technical journals.

Cooperation: (information not available) The American Pulpwood Association is a member of IUFRO.

Official working language: English.

U.S.A.

DEPARTMENT OF FORESTRY AND NATURAL RESOURCES
PURDUE UNIVERSITY
West Lafayette, Indiana 47907

Tel. (317) 494-3593
Cables:

Status: A teaching and research university department, founded in 1865 as a land grant college under the Morrill Act of 1862.

Staff: 26 research and teaching staff (all Ph.Ds)
2 technicians
17 other (administrative/secretarial)

Field stations: None

Principal fields of activity:

Forestry and associated natural resources, forest management, silviculture, forest biology, wildlife biology, fisheries, outdoor recreation, and wood science.
Five percent of the research programme is devoted to fuelwood species and systems, yield and harvesting, density and calorific value, economic efficiency of fuelwood compared with other fuels, gasification, and liquid fuel technology of methanol and ethanol production.
Training and extension.

The research is conducted mainly in the temperate zone.

Special facilities: (information not available)

Publications and services: Research results are published in annual reports and in international technical journals, and are disseminated through research conferences, seminars and workshops. The Department issues the following periodicals: Agricultural Experiment Station Bulletins and Station Bulletins. The library has 80,000 scientific and technical volumes; 800 subscriptions to international technical journals. Microfiche readers are available.

Cooperation: The Department cooperates in research on fuelwood plantation establishement and on nursery production with the Instituto Superior de Agricultura, Dominican Republic. It also cooperates in staff training; staff from Brazil and Mexico are currently being trained in Physiology and Remote Sensing respectively. The Department is willing and in a position to strengthen research links with institutions in developing countries. It is not a member of IUFRO.

Official working language: English.

U.S.A.

SCHOOL OF FOREST RESOURCES
THE PENNSYLVANIA STATE UNIVERSITY
101 Ferguson Building
University Park, PA 16802 Tel. 814/865-7541

Status: A School within the College of Agriculture. Forestry has been a teaching and research function since a department was established in 1907.

Staff: 32 Faculty with partial research assignments (28 Ph.Ds)
6 other Faculty (teaching/extension)(3 Ph.Ds)
2 technicians
11 other (administrative/secretarial)

Field stations: none

Principal fields of activity:

Forestry, forest products, fish and wildlife research. The average research effort of faculty with research assignments approximates 50 percent. A great deal of variability exists in the research projects of which there are approx. 30. Major efforts are in strip-mine reclamation, hardwood regeneration, energy biomass, plantations, atmospheric deposition, genetics, forest management and remote sensing. In forest products, flakeboard technology of Acer rubrum, wood deterioration and dead-wood pulping. Fish and wildlife research focuses on habitat manipulation, wetlands and wildlife/agriculture/forest interactions including wildlife damage control.

Special facilities: Systematic collections of birds, mammals and fish.

Publications and services: An "Annual Report of Research and Extension" was initiated in 1985. Prior to that, thesis abstracts were published in Research Briefs. These were discontinued in 1984. Irregularly, "Forest Resources Research Papers" are published on research findings. A reading room of current journals is maintained in the School. The University Library maintains forest resources and related collections. It acquires new books and current journals both domestic and international.

Cooperation: As a part of the College of Agriculture, International Programs Office, the school staff are members of the Southeast Consortium for International Development. Several faculty are participating in language training and one will be visiting Sri Lanka, funded by a Title XII, AID, Strengthening Grant. About 20 percent of the graduate students are international. The School is a member of IUFRO.

Official working language: English.

U.S.A.

ITT RAYONIER Inc.
Morgan Research Center
P.O. Box 437
Yulee, Florida 32097

Tel. 904/225-5393

Status: A woodlands research organization within a private forest products company.

Staff: 6 research officers
5 technicians

Field stations: 1

Principal fields of activity:

Silviculture of pines and hardwoods; tree improvement of pines and hardwoods; fertilization.

Training.

The research is conducted in the temperate zone.

Special facilities: None

Publications and services: Research results are published in annual reports, progress reports, and within company reports and notes. There is a small subject-oriented library with access to computerized library data bases.

Cooperation: No cooperative links. The Company is not a member of IUFRO.

Official working language: English.

ANNEX

WORLD COMPENDIUM OF FORESTRY AND FOREST PRODUCTS RESEARCH INSTITUTIONS

COUNTRY: .....

Please return the completed questionnaire to

H.A. Hilmi
Chief, Forestry Education, Employment
and Institutions Branch
Forest Resources Division
Forestry Department
FAO
Via delle Terme di Caracalla
00100 Rome, Italy

1. Name of research institution (in original language): .....

.....

2. Translation of name (into English, French or Spanish if original name is not in one of these languages):

.....

.....

3. Address:

Street ..... No. .....

P.O. Box No. ..... City/Town .....

Postal Code ..... Tel. No. ...../.....
(area code)/(number)

Cable ..... Telex No. .....

4. Status: .....

.....

.....

.....

.....

5. Staff: .....

6. Number of field stations: .....

7. Principal fields of activity: .....

8. Special facilities: .....

9. Library facilities: .....

10. Publications and services: .....

11. Cooperation: .....

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.....

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.....

.....

12. Member of IUFRO: yes / / no / /

13. Official working language: .....

Compiled by:

Name: .....

Official designation: .....

Address: .....

.....

.....

Date: .....

Signature: .....

ANNEXE

REPERTOIRE MONDIAL DES INSTITUTIONS DE RECHERCHE SUR LES FORETS ET LES PRODUITS FORESTIERS

PAYS: .....

Prière de renvoyer le questionnaire dûment rempli à l'adresse suivante:

H.A. Hilmi
Chef de la Sous-Division de l'enseignement,
de l'emploi et des institutions forestiers
Division des ressources forestières
Département des forêts
FAO
Via delle Terme di Caracalla
00100 Rome, Italie

1. Nom de l'institut de recherche (dans la langue d'origine):

.....

.....

2. Traduction officielle du nom (en anglais, français ou espagnol, si le nom d'origine n'est pas dans l'une de ces langues):

.....

.....

3. Adresse:

Rue ..... N°

Boîte postale N° ..... Ville .....

Code postal ..... N° de téléphone .....|.....
(indicatif)|(numéro de l'abonné)

Télégrammes ..... N° de télex .....

4. Statut: .....

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ANEXO

REPORTORIO MUNDIAL DE INSTITUCIONES DE INVESTIGACION SOBRE BOSQUES Y PRODUCTOS FORESTALES

PAIS: .....

Se ruega enviar este cuestionario debidamente completado a:

H.A. Hilmi
Jefe de la Subdirección de Enseñanza, Empleo
e Instituciones Forestales
Dirección de Recursos Forestales
Departamento de Montes
FAO
Via delle Terme di Caracalla
00100 Roma, Italia

1. Nombre de la institución de investigación (en el idioma original):

.....

.....

2. Traducción del nombre (en español, francés, o inglés si el nombre original no figura en uno de estos idiomas):

.....

.....

3. Dirección:

Calle ..... No. .....

Apartado de correos: .....Ciudad .....

Código postal ..... No. de teléfono .....|.....
(código) (número del abonado)

Telegramas ..... No. de telex .....

4. Estatuto jurídico: .....

.....

.....

.....

5. Personal: .....

6. Número de estaciones de campo: .....

7. Principales campos de actividad: .....

8. Instalaciones especiales: .....

9. Servicios de biblioteca: .....

10. Publicaciones y servicios: .....

11. Vínculos de colaboración: .....

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.....

12. Miembro de IUFRO: sí / / no / /

13. Idioma oficial de trabajo: .....

Personal que ha respondido al cuestionario:

Nombre: .....

Título oficial: .....

Dirección: .....

.....

.....

Fecha: .....

Firma: .....