

Database	Indicators for SFM										Data collection						Options	Description	
	ADMINISTRATIVE	Land use/cover area	Volume	Biomass and carbon	Management	Forest Health	Biodiversity	Products	Services	Use right	Accessibility	Source			Level				
												Office (GIS, maps...)	Input during the field	Field measurement	Interviews	Estimation			Tract
YearInventory																			Official year for field inventory
Country																			FAO/FRA terminology
ADM1 (State)																			National sub-division
ADM2 (Province)																			National sub-division
ADM3 (District)																			National sub-division
ADM4 (Locality)																			National sub-division
TractNo																			Field site number given in NFI (1 - n)
PlotNo																			Plot number in actual cluster (1 - 4)
SubPlotNo																			Running Sub-plot number within actual Plot (1 - n)
TopoMapNo																			National topographic map number
TopoMapName																			National topographic map name
PhotoNo																			Air photo/satellite scene) number
LatSWcorner																			Theoretically calculated position (decimal degree, North (dd,dddd)) of Tract south-west corner
LongSWcorner																			Theoretically calculated position (decimal degree, East (dd,dddd)) of Tract south-west corner
LatCentPoint																			Theoretically calculated position (decimal degree, North (dd,dddd)) of Tract central point
LongCentPoint																			Theoretically calculated position (decimal degree, East (dd,dddd)) of Tract central point
AltitudeCentPoint																			Altitude of Tract central point (m)
StartDate																			Date when field team begins the work in the plot (dd/mm/yy)
EndDate																			Date when field team ends the work in the plot (dd/mm/yy)
Worktime																			Effective time spent working at each plot (h)
AccessTime																			Time spent for accessing the Tract (h) from road *
LatLeavingRoad																			Reading of Latitude (decimal degree, North (dd,dddd)) where leaving road to access Tract
LongLeavingRoad																			Reading of Longitude (decimal degree, East (dd,dddd)) where leaving road to access Tract
* Crew																			Persons working in the inventory team at the actual Tract
* Landowner																			Person(s) owning land property inside the Tract
* Informant																			Person(s) accompanying the inventory team in the Tract providing S.E. information
* InformantRel																			Informants(s) relation to Tract
* InformantRel																			1 O - Estate owner 2 M - Manager of site 3 E - Employee 4 S - Settler 5 X - External key informant
MarkerPosDescription																			Drawings and description of reference points defining Plot marker position
PermanentMark																			Type of Plot starting point marker
DisplacementPermanentMark																			Distance (m) of actual marker position to plot starting point (default =0)
BearingPermanentMark																			Bearing (0-360 degrees) from actual marker position to Plot starting point (default =0)
LatPermanentMark																			Reading of Latitude (decimal degree, North (dd,dddd)) of permanent marker position
LongPermanentMark																			Reading of Longitude (decimal degree, East (dd,dddd)) of permanent marker position
Lat_0m																			Theoretically calculated position (decimal degree, North (dd,dddd)) of plot starting point
Long_0m																			Theoretically calculated position (decimal degree, East (dd,dddd)) of plot starting point
Lat_125m																			Reading of Latitude (decimal degree, North (dd,dddd)) at centre of plot (at 125m)
Long_125m																			Reading of Longitude (decimal degree, East (dd,dddd)) at centre of plot (at 125m)
Lat_250m																			Reading of Latitude (decimal degree, North (dd,dddd)) at end of plot (at 250m)
Long_250m																			Reading of Longitude (decimal degree, East (dd,dddd)) at end of plot (at 250m)
Tree-DistX																			Distance from Plot starting point (m) to tree along Plot central line
Tree-DistY																			Distance from Plot central line (+/- m) to tree. Negative distances towards left facing the Plot end
DistAllWeatherRoad																			Distance (km) along actual access path from Tract centre to nearest all-weather road (inside tract = "0")
DistSeasonalRoad																			Distance (km) along actual access path from Tract centre to nearest seasonal road (inside tract = "0")
DistHospital																			Distance (km) along actual access path from Tract centre to nearest Hospital/Medical service (inside tract = "0")
DistSchool																			Distance (km) along actual access path from Tract centre to nearest school (inside tract = "0")
DistSettlement																			Distance (km) along actual access path from Tract centre to nearest settlement (inside tract = "0")
DistMarket																			Distance (km) along actual access path from Tract centre to nearest local market (inside tract = "0")
PopulationDynamics																			Trend of population size inside/surrounding Tract during the latest 5 Years
PopulationDynamics																			0 Not Applicable 3 Decreasing (Decreased) 4 Equal, Not changing 5 Increasing (Increased) 90 Not known
PopulationDynamics																			
PopulationDynamics																			
PopulationDynamics																			
PopulationDynamics																			
PopulationMainActivity																			This variable describes the source of livelihood and occupation of the majority of persons inside/surrounding the "Tract". The term source of livelihood refers to what people do in order to cover basic needs for food and shelter, for example, if they are self sufficient farmers or if they have a job in the citeis. CONSIDERATIONS: Direct observations as well as from key-informants and cross-checking will provide good picture.
PopulationMainActivity																			0 Not Applicable 1 Agriculture 2 Live stock 3 Forestry 4 Urban/Periurban 5 Tourism
PopulationMainActivity																			Farming activities
PopulationMainActivity																			Livestock and herding of animals
PopulationMainActivity																			Subsistence and wage labour from Forest and forestry related activities including processing and trading of forest products
PopulationMainActivity																			Wage labour in a city or at an industry.
PopulationMainActivity																			Income from tourism and recreation



* EnvironmentProblem					7 Burning	
* EnvironmentProblem					8 Pests	
* EnvironmentProblem					9 Erosion	
* EnvironmentProblem					10 Landslide	
* EnvironmentProblem					11 Windthrow	
* EnvironmentProblem					12 Overexploitation of forest resources	
* EnvironmentProblem					13 Overexploitation of animal resources	
* EnvironmentProblem					14	
* EnvironmentProblem					15	
* EnvironmentProblem					90 Not known	
* EnvironmentProblem					99 Other	Specify
<b>ForestFragmentation</b>						Forest fragmentation at landscape level decided on basis of mapping of plots in the field
<b>GlobalEcologicalZone</b>						FAO/FRA GEZ classes
GlobalEcologicalZone					11 Tar - Tropical rain forest	
GlobalEcologicalZone					12 Tawa - Tropical moist deciduous forest	
GlobalEcologicalZone					13 Tawb - Tropical dry forest	
GlobalEcologicalZone					14 TBSH - Tropical shrubland	
GlobalEcologicalZone					15 TBWh - Tropical desert	
GlobalEcologicalZone					16 TM - Tropical mountain systems	
GlobalEcologicalZone					21 SCf - Subtropical humid forest	
GlobalEcologicalZone					22 SCs - Subtropical dry forest	
GlobalEcologicalZone					23 SBSH - Subtropical steppe	
GlobalEcologicalZone					24 SBWh - Subtropical desert	
GlobalEcologicalZone					25 SM - Subtropical mountain systems	
GlobalEcologicalZone					31 TeDo - Temperate oceanic forest	
GlobalEcologicalZone					32 TeDc - Temperate continental forest	
GlobalEcologicalZone					33 TeBSk - Temperate steppe	
GlobalEcologicalZone					34 TeBWk - Temperate desert	
GlobalEcologicalZone					35 TeM - Temperate mountain systems	
GlobalEcologicalZone					41 Ba - Boreal coniferous forest	
GlobalEcologicalZone					42 Bb - Boreal tundra woodland	
GlobalEcologicalZone					43 BM - Boreal mountain systems	
GlobalEcologicalZone					50 P - Polar	
<b>StandStructure</b>						Canopy structure in Sub-plot
StandStructure					0 Not Applicable	
StandStructure					1 Single layer of tree canopies	
StandStructure					2 Two-layer of tree canopies	
StandStructure					3 Tree-layer of tree canopies	
StandStructure					4 More than tree-layer of tree canopies	
<b>AreaNestedPlot</b>						Average area (m2) of Nested plot L1/L2 by actual land use class
<b>WidthSubPlot</b>						Average width (m) of Sub-plot
<b>LengthSubPlot</b>						Average Length (m) of Sub-plot
<b>TimberExploit</b>						Tree felling system
<b>StumpTreeCode</b>						Tree species code of stump
<b>StumpYearCut</b>						Year of tree felling of found stump in sub-plot
<b>StumpDiameter</b>						Average diameter of stump at cut height (cm)
<b>StumpHeight</b>						Mean height of stump (cm)
<b>SeasonExt</b>						Season when product is being extracted
SeasonExt					0 Not Applicable	
SeasonExt					1 Dry season	
SeasonExt					2 Rain season	
SeasonExt					90 Not known	
SeasonExt					99 Other	
<b>Product/Service</b>						Products and services obtained through forest or trees
Product/Service					101 Timber	Hardwoods, softwoods
Product/Service					102 Firewood	Firewood
Product/Service					103 Charcoal	Charcoal
Product/Service					201 Food	Vegetables, fruits, nuts, mushrooms etc.
Product/Service					202 Fodder	Grasses, leaves
Product/Service					203 Medical products	Medicines from plants from forest
Product/Service					204 Oils, soap, cosmetics	Oils, soap, cosmetics
Product/Service					205 Tannins	Tannins, dyes
Product/Service					206 Spices/herbs	
Product/Service					207 Resin	Gums, resin, latex etc.
Product/Service					208 Utensils, handicrafts	Non timber-based utensils/ handicrafts
Product/Service					209 Constructionmaterials	Non timber-based construction matr.
Product/Service					210 Ornaments	Plants used as ornaments
Product/Service					211 Seeds	
Product/Service					212 Biofertilizers, insecticides etc.	Natural fertilisers or insecticides made of organic matter
Product/Service					299 Other NonWood forest products	
Product/Service					301 Wild animals	Including birds and insects
Product/Service					302 Bushmeat	Bigger mammals, rodents
Product/Service					303 Honey, beewax	
Product/Service					399 Other nonedible animal products	Trophies etc.
Product/Service					401 Employment (paid)	
Product/Service					402 Hunting	
Product/Service					403 Grassing	
Product/Service					404 Agricultural functions	Wind breaks and shade
Product/Service					405 Bioprospecting	Scientific Research performed
Product/Service					406 Conservation	

	Product/Service					407 Recreation	Recreation and tourism
	Product/Service					408 Religious/spiritual	
	Product/Service					409 Water/soil conservation	
	Product/Service					410 Protection against Natural catastrofies	
	Product/Service					411 Vindbreaking curtains	
	Product/Service					499 Other services	
<b>LastExt</b>							Time when product was last harvested
	LastExt					0 Not Applicable	
	LastExt					1 Yesterday	
	LastExt					2 Last week	
	LastExt					3 Last month	
	LastExt					4 Last year	
	LastExt					5 More than one year ago	
	LastExt					90 Not known	
	LastExt					99 Other	
<b>FrequencyExt</b>							Trend in the extraction of product during the latest 5 years
	FrequencyExt					0 Not Applicable	
	FrequencyExt					3 Decreasing (Decreased)	
	FrequencyExt					4 Equal, Not changing	
	FrequencyExt					5 Increasing (Increased)	
	FrequencyExt					90 Not known	
<b>ChangeFrequencyExt (Reason)</b>							Main reason(s) for change in extraction during the latest 5 years
	ChangeFrequencyExt (Reason)					0 Not Applicable	
	ChangeFrequencyExt (Reason)					1 Restriction of benefits	
	ChangeFrequencyExt (Reason)					2 Market	
	ChangeFrequencyExt (Reason)					3 Substituted by other products/services	
	ChangeFrequencyExt (Reason)					4 Change in volume of product in countryside	
	ChangeFrequencyExt (Reason)					5 Change in access to resource	
	ChangeFrequencyExt (Reason)					90 Not known	
	ChangeFrequencyExt (Reason)					99 Other	
<b>ManagementPlan</b>							Existence of Forest Management Plan
	ManagementPlan					0 Not Applicable	
	ManagementPlan					1 Traditional	
	ManagementPlan					2 Formal	This includes traditional practices of resources exploitation and tending by local people and other individuals or Forests with a management plan developed and implemented
	ManagementPlan					90 Not known	
<b>* Silviculture</b>							Occupied silvicultural methods
	* Silviculture					1 No practice	
	* Silviculture					2 Improvement	Operations that reduce stand density or deficiencies to optimise yield and quality of merchantable timber volume. Also including regeneration establishment through natural seeding or direct seeding done by man
	* Silviculture					3 Release of desirable superior tree	Trees removed from the middle and upper portion of the range of crown and diameter classes - crown thinning. This also includes selective cutting
	* Silviculture					4 Release of lians and tropical plants	Operation freeing trees from threatening trees, plants or lianas
	* Silviculture					5 Enrichment	Planting done using seedlings from native species to assist natural regeneration
	* Silviculture					6 Sanatary cuttings (Insekt attacks, fungi, wildlife damages...)	Cutting to recover/free area after severe attacks of pests, fungi, wildlife, etc.
<b>Disturbances</b>							Degree of human impact on the removal of forest products
	Disturbances					1 Undisturbed	Protected area, all resources conserved
	Disturbances					2 Least disturbed	Exploitation of products according to management plans
	Disturbances					3 Moderately disturbed	Many products without conforming to management plans, notion of sustainability not respected
	Disturbances					4 Heavily disturbed	Removal of products at rates higher than MAI, biodiversity degradation due to high pressure on selected species, encroachment of agriculture leading to high rate of deforestation
<b>* StandOrigin</b>							Stand regeneration origin
	* StandOrigin					1 Natural regeneration	From seeds naturally falling from trees
	* StandOrigin					2 Plantation	Plantation including man-made seeding
	* StandOrigin					4 Coppice	From coppices sprouting from roots and/or stumps
	* StandOrigin					90 Not known	
<b>TreesExpected</b>							The expected trend of number of trees in Sub-plot
	TreesExpected					0 Not Applicable	
	TreesExpected					3 Decreasing (Decreased)	
	TreesExpected					4 Equal, Not changing	
	TreesExpected					5 Increasing (Increased)	
<b>TreesDesired</b>							The desired trend of number of trees in Sub-plot
	TreesDesired					0 Not Applicable	
	TreesDesired					3 Decreasing (Decreased)	
	TreesDesired					4 Equal, Not changing	
	TreesDesired					5 Increasing (Increased)	
<b>Designation/ProtectionStatus</b>							Sub-plot legal (formal) designation/protection status
	Designation/ProtectionStatus					0 Not Applicable	Inland waters, etc.
	Designation/ProtectionStatus					1 Conservation area	According to IUCN categories I
	Designation/ProtectionStatus					2 National park	According to IUCN categories II
	Designation/ProtectionStatus					3 National monument	According to IUCN categories III
	Designation/ProtectionStatus					4 Protected area with recourses management	According to IUCN categories IV and V
	Designation/ProtectionStatus					5 Production	Forest land outside protected areas including sessions, harvesting licence, community forest areas, etc.
	Designation/ProtectionStatus					90 Not known	
<b>UserRights</b>							The harvesting user's right to the product
	UserRights					0 Not Applicable	Inland waters, etc.
	UserRights					1 No right	Applicable to IUCN categories I, II and III
	UserRights					2 Exclusive rights	Ownership by custom, tradition or in the sense of a formal agreement. Owner has right to exclude others from using/harvesting the product.
	UserRights					3 Not exclusive righth	As above, but the owner cannot exclude others from using the forest product.
	UserRights					90 Not known	





AgricultureCroppingSystem					2 Improved cultivars	
AgricultureCroppingSystem					3 Crop rotation	
AgricultureCroppingSystem					99 Other	Specify
<b>AgricultureWater</b>						Agriculture water management
AgricultureWater					101 Rainfed	
AgricultureWater					102 Irrigation - manual construction, gravity fed	
AgricultureWater					103 Irrigation - major equipment	
AgricultureWater					104 Adequate drainage of excess water	
AgricultureWater					499 Other water management	Specify
<b>AgricultureNutrients</b>						Agriculture nutrient management
AgricultureNutrients					201 Adequate fallow	
AgricultureNutrients					202 Organic fertilizer	
AgricultureNutrients					203 Mineral fertiliser	
AgricultureNutrients					299 Other Soil amendments	Specify
<b>AgriculturePestWeed</b>						Agriculture pest/weed management
AgriculturePestWeed					301 Pesticides	
AgriculturePestWeed					302 Fungicides	
AgriculturePestWeed					303 Herbicides	
AgriculturePestWeed					304 Mechanical control	
AgriculturePestWeed					305 Biological control	
AgriculturePestWeed					399 Other Pest/Weed control	Specify
<b>AgricultureErosion</b>						Agriculture erosion management
AgricultureManagement Input					401 Tillage	
AgricultureManagement Input					402 Crop residue incorporation	
AgricultureManagement Input					403 Cover Crops	
AgricultureManagement Input					404 Leveling, contour tillage, terracing	
AgricultureManagement Input					499 Other erosion management	Specify
<b>AgriculturePowerSources</b>						Power/Technical sources used in agriculture
AgriculturePowerSources					1 Manual	
AgriculturePowerSources					2 Animal	
AgriculturePowerSources					3 Mechanized means	
AgriculturePowerSources					99 Other power source	Specify
<b>AgricultureServices</b>						Services from agriculture
LivestockServices					1 Climate regulation - S1	
LivestockServices					2 Disease control - S2	
LivestockServices					3 Flood control - S3	
LivestockServices					4 Detoxification -S4	
LivestockServices					5 Spiritual - S5	
LivestockServices					6 Recreation - S6	
LivestockServices					7 Aesthetic - S7	
LivestockServices					8 Inspirational - S8	
LivestockServices					9 Educational - S9	
LivestockServices					10 Communal - S10	
LivestockServices					11 Symbolic - S11	
LivestockServices					99 Other agriculture service - S99	Specify
<b>AgricultureProducts</b>						Agriculture products
AgricultureProducts					1	
AgricultureProducts					2	
AgricultureProducts					3	
AgricultureProducts					4	
AgricultureProducts					5	
AgricultureProducts					6	
AgricultureProducts					7	
AgricultureProducts					8	
AgricultureProducts					9	
AgricultureProducts					10	
AgricultureProducts					11	
AgricultureProducts					99 Other agriculture product	Specify