RECOVERED PAPER DATA 2009





RECOVERED PAPER DATA 2009

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Rome, 2010

NOTE

The figures reported in this survey are those supplied by countries. As is apparent from some figures in the tables (consumption of recovered paper without any relation to paper production, unrealistic percentages, etc.) there is some misunderstanding in the definitions and readers are urged to use caution when interpreting data for some countries.

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RECOVERED PAPER DATA 2009

INTRODUCTION

This FAO survey on "*Recovered Paper Data, 2009*" follows the same format as the 2006 edition. It was produced, in cooperation with the Confederation of European Paper Industry (CEPI) which supplied the necessary data relevant to its member countries (Austria, Belgium, Czech Republic, Finland, France, Germany, Hungary, Italy, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland, the Netherlands, the United Kingdom). FAO collected data for the other remaining countries.

The survey presents data on recovery, trade and utilization of recovered paper. Historical data for the period 2009 is presented and only a few countries provided projections of recovery and use of recovered paper for the years 2010, 2011, 2012 and 2013. The ratios used to analyse the data are those recommended by the Sub-group on Waste Paper Terminology and are defined later in this document.

Appendix 1 contains the questionnaire which FAO sent to 46 countries.

In addition to the 18 countries covered by CEPI, the following 18 countries answered the questionnaires: Australia, Brazil, Chile, Colombia, Cuba, Israel, Iraq, Japan, Malaysia, Mexico, New Zealand, Peru, Poland, Russian Federation, Thailand, The former Yugoslav Republic of Macedonia, Turkey and the United States of America. All together these 36 countries represent over 70 percent of the world paper and paperboard production and the data presented can be considered representative of the recovery, use and trade of recovered paper in the world.

For inquiries on these data please contact FAO Forestry Department, Forest Assessment, Management and Conservation Division. Mailing address: Viale delle Terme di Caracalla, 00100 Rome, Italy, telephone: +39 06 5705 2799, fax: +39 06 5705 5137, e-mail: Felice.Padovani@fao.org. These data and data from previous surveys are also available on-line at:

www.fao.org/forestry/foris/webview/forestry2/index.jsp?siteId=3141&langId=1

DEFINITIONS OF TERMS USED

The FAO Advisory Committee on Pulp and Paper created a Sub-group on Waste Paper Terminology to define the terms to be used by FAO to describe waste paper recovery and utilization. The following are the definitions used in this report:

a) <u>Waste paper net recovery rate</u>: is the amount of waste paper collected for re-use as a percentage of the adjusted paper and paperboard consumption.

(Note: the adjusted paper and paperboard consumption is equal to the apparent consumption of paper and paperboard plus the net trade in converted paper and paperboard products, excluding printed materials).

b) <u>Adjusted waste paper net recovery rate</u>: is the amount of waste paper collected as a percentage of the adjusted paper and paperboard consumption from which the non-recoverable paper and paperboard is deducted.

c) <u>Recovered paper utilization rate</u>: is the amount of recovered paper used for paper and paperboard as a percentage of paper and paperboard production.

d) <u>Recovered paper in fibre use rate</u>: is the amount of recovered paper used for paper and paperboard as a percentage of the total fibre used for paper and paperboard.

SUMMARY

RECOVERED PAPER TRADE

Table 1– Recovered paper trade in relation to recovered paper collection and utilization of recovered paper, and Appendices 5 and 6 present the results of the survey.

In 2009, the United States of America was the major exporter with 19 million tonnes, followed by Japan with 4.9, The United Kingdom and Germany with 3.4 and The Netherlands 3.2 million tonnes. France and Belgium reported more than 2 million tonnes and Italy and Australia with more than 1 million tonnes.

Main importers of recovered paper were Germany and The Netherlands respectively with 3.1 and 2.8 million tonnes and by Belgium, Mexico and Austria with more than 1 million tonnes. Just below 1 million tonnes we found Thailand, Spain and Sweden.

RECOVERED PAPER UTILIZATION FOR PURPOSES OTHER THAN PAPER AND PAPERBOARD MAKING

Table 2 – Distribution of the total use of recovered paper between paper/paperboard making and other uses, gives the relevant information. The information collected indicates that in nearly all countries virtually all recovered paper is used for paper and paperboard production.

RECOVERED PAPER UTILIZATION BY THE PAPER AND PAPERBOARD INDUSTRY

Table 3 – Recovered paper utilization rate, recovered paper in fibre use rate and total fibre used for paper and paperboard production, indicates the amounts of recovered paper being used in the paper furnish. This survey shows that about 50% of the countries use more than 50% of recovered paper in their domestic production of paper and paperboard.

Table 4 – *Composition of recovered paper (in percent)*, shows what are the major grades of paper entering in the flow of recovered paper. On average world-wide, corrugated, solid containers and kraft sack waste account for half of the total recovered paper, while newspaper and magazines grades account for 20%.

Table 5 – *Use of recovered paper by grades in percent* shows what percentage of recovered paper is used in the production of various paper and paperboard grades. The data indicates that 70% of recovered paper entering the production of paper is much higher for packaging grades (case material, folding boxboard, wrapping and other packaging grades) than cultural grades.

LOSSES IN REPULPING OF RECOVERED PAPER

Waste paper has higher losses during pulping than virgin material due to the amount of fines and filler in the waste paper. As the content of waste paper increases in the raw material, the amount of losses will go up.

Table 6 – *Losses in repulping and processing into paper and paperboard* presents the percentage figures for pulping losses. Though data is scarce, in most of the countries reporting the information, pulping losses are between 10 and 20 percent, with some exceptions probably due to antiquated equipment or poor processing control.

PROJECTED FUTURE RECOVERY OF WASTE PAPER

Table 7 – Projected future recovery of waste paper and use of recovered paper for paper and paperboard making shows projections for the next four years in both waste paper collected for reuse and for recovered paper used for paper and paperboard. They are expressed as a percentage of the 2009 level taken as a base line (100 percent). TABLES

	2009							
Country	Recovered paper collected nationally for paper and paperboard production	Exports of recovered paper		paper collected Recovered nationally for Exports of recovered paper used for paper and paper paper and paper and paperboard paper board paper board paper board		Imports of re pape		
	1000mt	1000mt	%	1000mt	1000mt	%		
Australia	3381	1342	40	1989	4	0		
Austria	1552	430	28	2291	1169	51		
Belgium	1879	2426	129	1090	1636	150		
Brazil	3834	2	0	3848	13	0		
Chile	489	17	3	576	121	21		
Colombia	633	2	0	727	96	13		
Cuba	28	0	0	31	3	10		
Czech Republic	709	404	57	344	40	12		
Finland	785	216	28	604	35	6		
France	6949	2740	39	4998	789	16		
Germany	15399	3760	24	14776	3137	21		
Hungary	485	182	38	425	122	29		
Israel	305	50	16	255	25	10		
Italy	6195	1855	30	4752	412	9		
Japan	21663	4914	23	16946	44	0		
Macedonia, TFY Rep.	15	10	67		2			
Malaysia	1196	5	0	1566	370	24		
Mexico	3039	198	7	4549	1408	31		
Netherlands	2960	3845	130	2002	2887	144		
New Zealand	255	244	96		549			
Norway	584	285	49	402	103	26		
Poland	1604	350	22	1269	15	1		
Portugal	823	422	51	412	10	2		
Romania		58	-	270	3	1		
Russian Federation	1500	147	10	1275	1	0		
Slovakia	237	98	41	168	29	18		
South Africa	1015	15	1	1000	30	3		
Spain	4624	945	20	4593	913	20		
Sweden	1288	318	25	1864	894	48		
Switzerland	1317	550	42	862	95	11		
Turkey	1016	34	3	1096	702	64		
United Kingdom	8157	4430	54	3819	92	2		
United States of America	45121	19065	42	26353	300	1		

TABLE 1 - RECOVERED PAPER TRADE IN RELATION TO RECOVERED PAPER COLLECTION AND UTILIZATION OF RECOVERED PAPER

TABLE 2 - DISTRIBUTION OF THE TOTAL USE OF RECOVERED PAPER BETWEEN PAPER AND PAPERBOARD MAKING

			2009		
Country	Total use of recovered paper	Recovered pa for paper & pa	-	Recovered pa for other pu	-
	1000mt	1000mt	%	1000mt	%
Australia	2039	1989	98	50	2
Austria	2003	2291	100	50	0
Belgium	1090	1090	100	•	0
Brazil	3848	3848	100	0	0
Chile	593	576	97	17	3
Colombia	727	727	100	0	0
Cuba	31	31	100	0	0
Czech Republic	344	344	100	U	0
Finland	604	604	100	•	0
France	4998	4998	100	-	0
Germany	14776	14776	100	-	0
Hungary	425	425	100	-	0
Israel	255	255	100	0	0
Italy	4752	4752	100		0
Japan	16946	16946	100	0	0
Macedonia, TFY Rep.					
Malaysia	1566	1566	100	0	0
Mexico	4549	4549	100	0	0
Netherlands	2002	2002	100		0
New Zealand					
Norway	402	402	100		0
Poland	1269	1269	100	0	0
Portugal	412	412	100	-	0
Romania	270	270	100		0
Russian Federation	1495	1275	85	220	15
Slovakia	168	168	100		0
South Africa	1000	1000	100	0	0
Spain	4593	4593	100		0
Sweden	1864	1864	100		0
Switzerland	862	862	100		0
Turkey	1096	1096	100	0	0
United Kingdom	3819	3819	100		0
United States of America	26625	26353	99	272	1

TABLE 3 - RECOVERED PAPER UTILIZATION RATE, RECOVERED PAPER IN FIBRE USE RATE AND TOTAL FIBRE USED FOR PAPER AND PAPERBOARD PRODUCTION

			2009			
Country	Paper and paperboard production	Total fibre used for paper and paperboard	Recovered paper used for paper & paperboard	Total fibre used / paper & paperboard production	Recovered paper in fibre use rate	Recovered paper utilization rate
	1000mt	1000mt	1000mt	%	%	%
Australia	3312	3215	1989	97	62	60
Austria	4606		2291	0		50
Belgium	1796	•	1090	-		61
Brazil	9368	9474	3848	101	41	41
Chile	1306	1381	576	106	42	44
Colombia	1039	1175	727	113	62	70
Cuba	18	31	31	172	100	172
Czech Republic	802	0.	344	0		43
Finland	10602	•	604	0		6
France	8331		4998	0	_	60
Germany	20899		14776	-	-	71
Hungary	435	_	425	0	-	98
Israel	380	425	255	-	60	67
Italy	8404		4752	0		57
Japan	26268	26827	16946	102	63	65
Macedonia, TFY Rep.	23			0		0
Malaysia	1421	1566	1566	110	100	110
Mexico	4556	5342	4549	117	85	100
Netherlands	2609		2002			77
New Zealand	882	1293		147	0	0
Norway	1576		402	0		26
Poland	3301		1269	0		38
Portugal	1632		412	0		25
Romania	286		270	0		94
Russian Federation	7223	7564	1275	105	17	18
Slovakia	921		168	0		18
South Africa	2307	812	1000		123	
Spain	5700		4593			81
Sweden	10933		1864	0		17
Switzerland	1542		862			56
Turkey	4191		1096	0		26
United Kingdom	4293		3819			89
United States of America	71927	72610	26353		36	37
-						

TABLE 4 - COMPOSITION OF RECOVERED PAPER (IN PERCENT)

Country	Total recovered paper	Old and over-issue newspapers and	Communited asted	Wood-free	
		magazines, telephone directories, brochures, etc.	Corrugated, solid containers and kraft sack waste (old and new).	printing and writing paper, punch cards and other high-grade qualities.	Mixed grades
	%	%	%	%	%
Australia	100	11	49	13	26
Austria	100	32	38	12	17
Belgium	100	53	35	0	11
Brazil	100	5	64	14	18
Chile	100	2	64	25	10
Colombia	100	6	66	28	1
Cuba					
Czech Republic	100	6	66	3	24
Finland	100	51	39	8	2
France	100	25	53	10	12
Germany	100	29	34	12	24
Hungary	100	2	74	1	22
Israel	100	11	59	27	3
Italy	100	14	48	10	28
Japan	100	31	44	12	13
Macedonia, TFY Rep.					
Malaysia	100	20	70	5	5
Mexico	100	10	60	28	2
Netherlands	100	17	35	8	40
New Zealand	-	-	-	-	-
Norway	100	51	39	8	2
Poland	100	18	68	7	8
Portugal	100	0	66	16	18
Romania	100	35	52	1	11
Russian Federation	100	13	50	14	23
Slovakia	100	29	31	38	3
South Africa	100	10	56		9
Spain	100	22	52	8	19
Sweden	100	54	29	8	10
Switzerland	100	46	27	11	16
Turkey					
United Kingdom	100	39	36		7
United States of America	100	13	60	13	14

TABLE 5 - USE OF RECOVERED PAPER BY GRADES IN PERCENT

	2009							
Country	Recovered paper used for paper and paperboard	Newsprint	Other graphic paper	Case material	Folding boxboard	Wrapping, other packaging paper	Household and sanitary paper	Other paper and paperboard n.e.s.
	percent	percent	percent	percent	percent	percent	percent	percent
Australia	100	7	1	18	7	63	2	2
Austria	100	12	22	39	18	1	7	0
Belgium	100	41	22	30	6	0	0	0
Brazil	100	0	2	60	7	9	15	7
Chile	100	0	0	70	0	0	30	0
Colombia								
Czech Republic	100	0	1	73	1	19	4	2
Finland	100	41	0	22	0	20	16	0
France	100	19	4	57	0	13	6	2
Germany	100	16	14	45	9	6	5	5
Hungary	100	0	0	96	0	0	4	0
Israel	100	0	0	0	0	64	33	3
Italy	100	5	2	53	12	20	4	3
Japan	100	19	15	49	8	0	5	3
Malaysia	100	100	0	0	0	0	0	0
Mexico	100	10	28	0	0	60	0	2
Netherlands	100	14	1	38	3	39	6	0
Norway	100	41	0	22	0	20	16	0
Poland	100	9	0	62	6	4	18	0
Portugal	100	1	3	67	7	10	6	5
Romania	100	11	0	57	1	0	31	0
Russian Federation	100	0	0	45	9	10	9	26
Slovakia	100	0	0	34	0	0	66	0
South Africa	100	10	0	43	13	2	29	2
Spain	100	16	1	59	9	2	6	7
Sweden	100	46	0	25	8	0	14	7
Switzerland	100	47	0	34	10	0	9	0
United Kingdom	100	39	0	39	0	3	12	7
United States of America	100	8	5	50	20	2	14	2

TABLE 6 - LOSSES IN REPULPING AND PROCESSING INTO PAPER AND PAPERBOARD

		2009			
Country	Total recovered paper used	Losses in p	sses in pulping		
	1000mt	1000mt	%		
Australia	2039	199	10		
Austria	2033	199	10		
Belgium	1090	•			
Brazil	3848	0	•		
Chile	593	113	19		
Colombia	727				
Cuba	31	•			
Czech Republic	344				
Finland	604				
France	4998				
Germany	14776	-			
Hungary	425				
Israel	255	75	29		
Italy	4752				
Japan	16946				
Macedonia, TFY Rep.					
Malaysia	1566				
Mexico	4549	786	17		
Netherlands	2002				
New Zealand					
Norway	402				
Poland	1269				
Portugal	412				
Romania	270				
Russian Federation	1495	75	5		
Slovakia	168				
South Africa	1000	203	20		
Spain	4593				
Sweden	1864				
Switzerland	862				
Turkey	1096				
United Kingdom	3819				
United States of America	26625				

		Waste pa	aper collected for	or re-use		Recovered paper used for paper and paperboard					
Country		percent					percent				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013	
Australia	100	106	111	117	124	100	103	105	105	109	
Brazil	100	105	108	111	115	100	106	109	112	116	
Chile	100	101	104	107	110	100	102	106	109	113	
Colombia	100	0	0	0	0	100	103	113	118	122	
Cuba	100	100	100	100	100	100	100	100	100	100	
Israel	100	133	141	143	143	100	167	176	176	176	
Japan	100	0	0	0	0	100	0	0	0	0	
Malaysia	100	101	102	103	104	100	101	101	102	104	
Mexico	100	100	100	100	100	100	103	106	109	112	
New Zealand	100	0	0	0	0						
Russian Federation	100	113	123	133	143	100	86	98	110	118	
South Africa	100	104	111	117	123	100	108	114	120	127	
Turkey	100	0	0	0	0						
United States of America	100	0	0	0	0	100	108	109	110	0	

TABLE 7 - PROJECTED FUTURE RECOVERY OF WASTE PAPER AND USE OF RECOVERED PAPER FOR PAPER AND PAPERBOARD MAKING

APPENDIX 1: QUESTIONNAIRE

FAO RECOVERED PAPER SURVEY (2009) Part 1: Main Questionnaire

Country:

	(All figures in 000 metric tons)	2009
1.	Production of paper and paperboard	
2.	Net trade in paper and paperboard	
3.	Recovered paper collected nationally for paper and paperboard production	
4.	Exports of recovered paper.*	
5.	Imports of recovered paper.*	
6a.	Recovered paper* used domestically for purposes other than paper and paperboard making.	
6b.	Recovered paper* used domestically for paper and paperboard making	
(i)	Old and over-issue newspapers and magazines, telephone directories, brochures, etc.	
(ii)	Corrugated, solid containers and kraft sack waste (old and new)	
(iii)	Wood-free printing and writing paper, punch cards and other high-grade qualities	
(iv)	Mixed grades	
7.	Losses in repulping and processing into paper and paperboard	
8.	Total fibre used for paper and paperboard	

fincluding recovered paper market pulp measured in terms of recovered paper.

FAO RECOVERED PAPER SURVEY (2009) Part 2: Use of the main types of recovered paper in the manufacture of major grades of paper and paperboard. Country:

		Types of recovered paper (all figures in 000 metric tons)						
		Recovered paper* used domestically for paper and paperboard making.Total recovered paper	Old and over- issue newspapers, magazines, telephone directories, brochures, etc.	Corrugated, solid container and kraft sack waste (old and new).	Wood-free printing and writing papers, punch cards and other high-grade qualities.	Mixed grades		
Major grades of paper and paperboard	year	[6b.] **	[6b.(i)] **	[6b.(ii)] **	[6b.(iii)] **	[6b.(iv)] **		
Paper and paperboard total	2009							
Newsprint	2009							
Other graphic paper	2009							
Case material	2009							
Folding boxboard	2009							
Wrappings, other packaging paper	2009							
Household and sanitary paper	2009							
Other paper and paperboard, n.e.s.	2009							

including recovered paper market pulp measured in terms of recovered paper ** same headings as in Part 1: Main Questionnaire

FAO RECOVERED PAPER SURVEY (2009) Part 3: Projected future consumption and supply of recovered paper

Country:

(All figures in 000 metric tons)	2009	2010	2011	2012	2013
Waste paper collected for re-use					
Exports of recovered paper* [4] **					
Imports of recovered paper* [5] **					
Recovered paper* used domestically for purposes other					
than paper and paperboard making [6a.] **					
Recovered paper* used domestically for paper and					
paperboard making [6b.] **					

*including recovered paper market pulp measured in terms of recovered paper. ** same headings as in Part 1: Main Questionnaire

FAO RECOVERED PAPER SURVEY (2009) Part 4: Recovered paper EXPORTS by country of destination

Country:

Recovered paper* EXPORTS to: (indicate countries of destination) (all figures in 000 mt)	2009
otal exports of recovered papers * [4]**	

* including recovered paper market pulp measured in terms of recovered paper ** same headings as in Part 1: Main Questionnaire

FAO RECOVERED PAPER SURVEY (2009) Part 4: Recovered paper IMPORTS by country of origin

Country:

Recovered paper* IMPORTS from: (indicate countries of origin) (all figures in 000 mt)	2009

* including recovered paper market pulp measured in terms of recovered paper ** same headings as in Part 1: Main Questionnaire

APPENDIX 2: DEFINITIONS OF THE TERMS USED IN THE FAO RECOVERED PAPER SURVEY QUESTIONNAIRE

APPENDIX 2 – DEFINITIONS OF THE TERMS USED IN THE FAO RECOVERED PAPER SURVEY QUESTIONNAIRE

- 1. <u>Paper and paperboard production</u> is the quantity of all paper and paperboard of commercial quality (fibre building boards not included) produced within a country.
- Net trade in paper and paperboard (excluding printed material) is the difference between the imports and exports of converted paper and paperboard products (SITC [Rev. 2] 642 and part of BIN 48). In case imports exceed exports, this factor is positive, and in case exports are higher than imports the factor is negative.
- 3. <u>Recovered paper collected nationally for paper and paperboard production</u> is the net quantity of recovered paper collected which is used exclusively in paper and paperboard manufacture including also recovered paper market pulp measured in terms of recovered paper input.
- 4. and 5.<u>Exports and imports of recovered paper</u> are the quantities of all kinds of waste paper exported and imported for any kind of use including waste paper market pulp¹ measured in terms of waste paper inputs.
- 6a. <u>Recovered paper used domestically for purposes other than paper and paperboard making</u> is the quantity of waste paper used for fibre building boards, moulded products, in bulk as wrapping and packaging material or for any other major industrial or commercial use.
- 6b. Recovered paper used domestically for paper and paperboard making is the net quantity of the waste paper intake at the mill (and excluding all sorting losses) of any kind of waste paper either locally collected or imported which is used exclusively in paper and paperboard manufacture including also recovered paper market pulp measured in terms of recovered paper input. (Whenever possible, the quantities of recovered paper should be expressed at 90 percent dryness and should include the losses in repulping and processing into paper and paperboard). The details under this heading include the following:
 - i) Old and over-issue newspapers and magazines, telephone directories, brochures, etc., i.e. waste paper containing mainly mechanical pulp.
 - ii) Corrugated, solid container and kraft sack waste (old and new), i.e. recovered paper containing mainly unbleached sulphate pulp.
 - iii) Wood-free printing and writing papers, copy paper, computer printouts, and other highgrade qualities, i.e. recovered paper containing mainly bleached chemical pulp.
 - iv) Mixed grades, all other types of recovered paper.
- 7. <u>Losses in repulping and processing into paper and paperboard</u> is the quantity which is lost as broken fibres, fillers, coatings and other additives when the recovered paper is repulped, as well as the fibre losses in processing the derived recovered paper pulp into paper and paperboard.
- 8. <u>Total fibre used for paper and paperboard</u> is the total input quantity of all types of fibres at 90 percent dryness used for paper and paperboard manufacturing. The fibres can originate from wood (round, split, chips, residues, sawdust, etc.), from non-wood fibrous vegetable materials (bagasse, straw, bamboo, esparto, other reeds and grass, cotton linters, flax, hemp, etc.), from rags and other textile wastes and from recovered paper.

¹

Recovered paper market pulp is the pulp made of recovered paper for sale in the open market and does not include recovered paper pulp used in own plant or shipped to wholly owned or associated companies within the country. All recovered paper pulp moving outside the producing country is considered to be recovered paper market pulp.

PLEASE NOTE: For some of the headings or for some parts of the headings the data might not be readily available. In such cases you are kindly requested to make estimates and to indicate such estimates with e.g. a footnote.

APPENDIX 3: WASTE PAPER RECOVERY AND UTILIZATION OF RECOVERED PAPER IN PAPER AND PAPERBOARD IN 2009

				2009			
Country	Production of paper and paperboard	Net trade in paper and paperboard	Apparent consumption of paper and paperboard	Recovered paper collected nationally for paper and paperboard production	Recovered paper collection rate	Exports of recovered paper	Imports of recovered paper
	1000 mt	1000 mt	1000 mt	1000 mt	percent	1000 mt	1000 mt
Australia	3312	711	4023	3381	84	1342	4
Austria	4606	-2704	1902	1552	82	430	4 1169
Belgium	1796	1590	3386	1879	56	2426	1636
Brazil	9368	-933	8435	3834	45	2420	13
Chile	1306	-166		489	43	17	121
Colombia	1039	292	1331	633	48	2	96
Cuba	18	27	45	28	62	0	3
Czech Republic	802	470	1272	709	56	404	40
Finland	10602	-9365	1237	785	63	216	35
France	8331	1199	9530	6949	73	2740	789
Germany	20899	130	21029	15399	73	3760	3137
Hungary	435	354	789	485	61	182	122
Israel	380	498	878	305	35	50	25
Italy	8404	1431	9835	6195	63	1855	412
Japan	26268	744	27012	21663	80	4914	44
Macedonia, TFY Rep.	23	52	75	15	20	10	2
Malaysia	1421	1674	3095	1196	39	5	370
Mexico	4556	3511	8067	3039	38	198	1408
Netherlands	2609	298	2907	2960	102	3845	2887
New Zealand	882	243	1125	255	23	244	549
Norway	1576	-798	778	584	75	285	103
Poland	3301	1020	4321	1604	37	350	15
Portugal	1632	-255	1377	823	60	422	10
Romania	286	363	649		0	58	3
Russian Federation	7223	-1445	5778	1500	26	147	1
Slovakia	921	-449	472	237	50	98	29
South Africa	2307	-15	2292	1015	44	15	30
Spain	5700	513		4624	74	945	913
Sweden	10933	-9004				318	894
Switzerland	1542	-24				550	95
Turkey	4191	1940		1016		34	702
United Kingdom	4293	5723				4430	92
United States of America	71927	347	72274	45121	62	19065	300

APPENDIX 3 - WASTE PAPER RECOVERY AND UTILIZATION OF RECOVERED PAPER IN PAPER AND PAPERBOARD INDUSTRY

				2009			
Country	Recovered paper used for other purpose than paper and paperboard	Recovered paper used for paper and paperboard	Losses in repulping and processing into paper and paperboard	Total fibre used for paper and paperboard	Recovered paper in fibre use rate	Total fibre / paper and paperboard production	Recovered paper utilization rate
	1000 mt	1000 mt	1000 mt	1000 mt	percent	percent	percent
Australia	50	1989	199	3215	62	97	60
Austria		2291					50
Belgium		1090					61
Brazil	0	3848	0	9474	41	101	41
Chile	17	576	113	1381	42	106	44
Colombia	0	727		1175	62	113	70
Cuba	0	31		31	100	172	172
Czech Republic		344					43
Finland		604					6
France		4998					60
Germany		14776					71
Hungary		425					98
Israel	0	255	75	425	60	112	67
Italy		4752					57
Japan	0	16946		26827	63	102	65
Macedonia, TFY Rep.							0
Malaysia	0	1566		1566	100	110	110
Mexico	0	4549	786	5342	85	117	100
Netherlands		2002					77
New Zealand	-	-	-	1293		147	
Norway		402					26
Poland	0	1269					38
Portugal		412					25
Romania		270					94
Russian Federation	220	1275	75	7564	17	105	18
Slovakia		168					18
South Africa	0	1000		812	123	35	43
Spain		4593					81
Sweden		1864					17
Switzerland		862					56
Turkey	0	1096					26
United Kingdom		3819					89
United States of America	272	26353		72610	36	101	37

APPENDIX 3 - WASTE PAPER RECOVERY AND UTILIZATION OF RECOVERED PAPER IN PAPER AND PAPERBOARD INDUSTRY (cont.)

APPENDIX 4: EXPORTS 2009

						RED PA						
APPENDIX 4		EX	PORTS	OF RECO	VERED P	APER B	Y COUNT 0 mt)	RY OF DE	STINATI	ON IN 200	9	
from	Australia	Austria	Belgium	Brazil	Chile	Colombia	Cuba	Czech Rep.	Finland	France	Germany	Hungary
to ARGENTINA					12							
AUSTRALIA					12							
AUSTRIA		0	0					89	0	8	384	123
BELGIUM		0	0					0	0	294	76	0
BOLIVIA BULGARIA		0	0	1				0	0	0	0	0
CANADA		0	1					0	0	4	1	0
CHINA	1006	0	770					0	25	570	1030	1
CYPRUS		0	0					0	0	0	0	0
CROATIA CZECH REP.		11	1					0	0	4	6	0
DENMARK		0	0					0	0	4	12	0
ECUADOR						2						
ESTONIA		0	0					0	2	0	0	0
FINLAND		0	0					0	0	1	0	0
FRANCE GERMANY		0 325	140 90					0 210	0 50	0 307	194 0	0 8
GREECE		0	<u> </u>					0	0	0	1	0
GUATEMALA									-			
HUNGARY		9	0					2	0	0	9	0
	80											
INDONESIA IRELAND	159	0	0					0	0	0	0	0
ITALY		11	1					1	5	68	70	0
JAPAN		0	0					0	0	0	0	0
KAZAKHSTAN												
LAO PDR LATVIA		0	0					0	0	0	0	0
LITHUANIA		0	0					0	0	0	0	0
MALAYSIA	39	Ū	0						0	0	0	0
MALTA		0	0					0	0	0	0	0
MEXICO												
MYANMAR NETHERLAND		10	986					3	4	539	1444	0
NORWAY		0	1					0	2	0	0	0
PAKISTAN	2											
PANAMA							122					
PARAGUAY PERU				1	1							
PERU PHILIPPINES	8				1							
POLAND		0	4					31	0	0	22	0
PORTUGAL		0	0					0	0	1	0	0
REP. OF KOREA	11				1							
ROMANIA RUSSIAN FED.		0	0					0	0	0	0	0
SAUDI ARABIA		U	0					0	2	0	0	0
SERBIA												
SINGAPORE	1				3							
SLOVAK REP.		2	0					63	0	0	2	15 23
SLOVENIA SOUTH AFRICA	17	61	0					5	0	7	14	23
SPAIN		0	0					0	0	687	29	0
SYRIAN ARAB REP.												
SWEDEN		1	0					0	103	9	54	0
SWITZERLAND THAILAND	1	0	0					0	0	23	54	0
TURKEY	9	0	11					0	0	2	1	0
UKRAINE												
UK		0	7					0	0	10	9	0
TANZANIA			0									0
USA VIET NAM	9	0	2					0	0	2	0	0
OTHERS	3											
GRAND TOTAL	1342	429	2015	2	17	2	122	404	195	2536	3412	171
		-		_		-	_				-	

APPENDLA 3 (1000 mt) from g g g g f g g g g g g g g g g g g <	I	FAO RECOVERED PAPER SURVEY (2009) EXPORTS OF RECOVERED PAPER BY COUNTRY OF DESTINATION IN 2009 (cont.)												
io io <thio< th=""> io io io<!--</th--><th>APPENDIX 4</th><th colspan="13"></th></thio<>	APPENDIX 4													
ARGENTINA Image: state of the	from	Israel	Italy	Japan	Malaysia	Mexico	Netherland	New Zealand	Norway	Peru	Poland	Portugal	Romania	
ALSTRIA 92 1 25 0 BELGUM 0 396 0 0 0 BELGUM 0 396 0 0 0 SULARIA 0 0 0 0 0 0 SULARIA 0 2 0 0 0 0 0 CHINA 6 957 437 30 2110 74 67 449 78 CROATIA 0														
AUSTRIA 92 17 0 25 0 BCLUMA 0 396 0								1						
BELGIUM O 396 O O O BULGARIA O O O O O O O O BULGARIA O V O O O O O O O CHINA 6 957 4317 30 2110 74 67 49 78 CROATIA O			92				17	1	0		25	0	8	
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CANADA 2 0 0 0 0 0 0 CMPRUS 6 957 4317 30 210 74 67 49 78 CXPATUS 0										5				
CHINA 6 957 4317 30 2110 74 67 49 78 CROATIA 0 <td></td>														
CYPRUS 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>0</td>							-		-		-	-	0	
CROATIA Image: Croating of the second of the s		6		4317		30		74					10	
CZECH REP. 0 0 1 26 0 4 0 ECUADOR 0 1 26 0			0				0		0		0	0	0	
DENMARK 0 1 26 0 0 ECUADOR 0 0 0 0 0 0 0 0 ESTONA 0 0 0 0 0 0 0 0 0 FINAMD 0 431 10 216 1 0 0 0 0 CEMMARY 168 431 10 216 1 0 0 0 0 CHIGARY 20 1 0 20 13 0 <			0				0		0		4	0	0	
ECUADOR 5 5 ESTONIA 0 0 0 0 0 0 FINLAND 0 0 0 0 0 0 0 FRANCE 411 633 17 0 0 0 0 GERMANY 188 431 10 216 1 0							-						0	
ESTONIA 0 </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td></td> <td>3</td> <td></td>			-							5		3		
FRANCE 41 83 17 0 0 GREECE 0 431 10 216 1 GREECE 0 1 0 0 0 0 GUATEMALA 1 0 0 0 0 0 0 GUATEMALA 0 0 0 0 13 0 INDA 16 29 0 0 0 0 0 INDONESIA 15 57 0 1 0	ESTONIA													
CEERMANY 168 431 10 216 1 GUATEMALA 0							-				-			
GREECE 0 <td></td> <td>0</td>													0	
CUATEMALA Image: state of the													0	
HUNGARY 20 0 0 13 0 NDIA 16 29 0 0 0 0 INDONESIA 15 57 0 <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>1</td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td>			0			1	0		0		0	0	0	
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INDONESIA 15 57 0 0 IRELAND 0 0 0 0 0 0 IRELAND 0 5 0 1 0 JAPAN 0 0 0 0 0 0 KAZAKHSTAN 0 0 0 0 0 0 0 LAO PDR 0 0 0 0 0 0 0 LATVIA 0 0 0 0 0 0 0 MALTA 0 0 0 0 0 0 0 0 MAITA 0 12 0 0 0 0 0 NETHERLAND 24 0 7 26 58 NORWAY 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		16	20				0	29			15	0	17	
IPEELAND 0 0 0 0 0 0 0 JAPAN 0 5 0 1 0 JAPAN 0 0 0 0 0 0 0 KAZAKHSTAN 0 0 0 0 0 0 0 0 LATVIA 0 0 0 0 0 0 0 0 LATVIA 0 0 0 0 0 0 0 0 MALTA 0 0 0 0 0 0 0 0 MALTA 0 1 0 0 0 0 0 0 MALTA 0 12 0				15										
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LATVIA 0 <td></td>														
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MALTA 0 3 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>0</td>							-		-		-		0	
MALTA 0 0 0 0 0 0 0 0 MEXICO			Ű				Ŭ	3				Ŭ		
MYANMAR 24 0 7 26 58 NETHERLAND 24 0 7 26 58 NORWAY 0 12 0 0 0 PAKISTAN 1 1 0 0 0 PARAGUAY 1 1 0 0 0 PERU 23 5 25 0 0 POLAND 0 0 0 0 0 0 POLAND 0 0 0 0 0 0 0 POLAND 0 0 0 0 0 0 0 RUSSIAN FED. 0 0 0 0 0 0 0 SUDYENIA 0 0 0 0 0 0 0 0 0 SUCVENIA 91 0 0 0 0 0 0 0 0 SUCVENIA 91 3			0				0		0		0	0	0	
NETHERLAND 24 0 7 26 58 NORWAY 0 12 0 0 0 PAKISTAN 1 1 1 1 1 1 PARAMA 1 1 1 1 1 1 1 PARASUAY 1 1 1 1 1 1 1 PARAGUAY 1 1 1 1 1 1 1 1 PARAGUAY 1														
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RUSSIAN FED. 0 <t< td=""><td></td><td>10</td><td>0</td><td>86</td><td></td><td>3</td><td>-</td><td>3</td><td></td><td></td><td>-</td><td></td><td></td></t<>		10	0	86		3	-	3			-			
SAUDI ARABIA							-		-				0	
SERBIA Image: Constraint of the second			U				0		0		0	0	0	
SINGAPORE Image: constraint of the system of t														
SLOVENIA 91 0 0 0 0 0 SOUTH AFRICA 1 3 0 262 SPAIN 1 3 0 262 SYRIAN ARAB REP. 0 19 85 2 0 SWEDEN 0 19 85 2 0 SWITZERLAND 6 31 0 0 0 THAILAND 14 362 28 1 1 UKREY 1 8 1 0 0 0 UKRAINE 1 0 0 1 1 1 1 USA 1 4 163 1 0 1 1 USA 1 4 163 1 0 1 1 OTHERS 3 3 4 4 4 1								1						
SOUTH AFRICA Image: constraint of the system o												-	-	
SPAIN 1 3 0 262 SYRIAN ARAB REP. 0 19 85 2 0 SWEDEN 0 19 85 2 0 SWITZERLAND 6 31 0 0 0 THAILAND 14 362 28 1 0 0 TURKEY 1 8 1 0 0 0 0 UK 0 444 0 0 1 1 0 0 1 UK 0 444 0 0 1 1 0 1 1 UK 0 14 163 1 0 0 1 1 UK 0 444 0 0 1			91				0		0		0	0	0	
SYRIAN ARAB REP. 0 19 85 2 0 SWEDEN 0 19 85 2 0 SWITZERLAND 6 31 0 0 0 THAILAND 14 362 28 0 0 TURKEY 1 8 1 0 0 0 UKRAINE 0 444 0 0 1 0 1 UK 0 444 0 0 1 1 0 1 UK 0 163 1 0 0 1 1 USA 1 4 163 1 0 1 1 OTHERS 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4									-			0.00		
SWEDEN 0 19 85 2 0 SWITZERLAND 6 31 0 0 0 THAILAND 14 362 28 1 0 0 0 TURKEY 1 8 1 0 0 0 0 0 UKRAINE 1 0 0 44 0 0 1 UK 0 444 0 0 1 1 0 1 USA 1 4 163 1 0 0 1 1 VIET NAM 2 108 22 1 1 1 1 1 OTHERS 3 3 1 <t< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td>3</td><td></td><td>0</td><td></td><td>0</td><td>262</td><td>0</td></t<>			1				3		0		0	262	0	
SWITZERLAND 6 31 0 0 0 0 THAILAND 14 362 28			0				10		85		2	0	0	
THAILAND 14 362 28 0 0 TURKEY 1 8 1 0 0 0 UKRAINE 0 44 0 0 1 UK 0 44 0 0 1 TANZANIA 1 4 163 1 0 0 1 USA 1 4 163 0 1 0 0 1 VIET NAM 2 108 22 1														
UKRAINE Image: Constraint of the second		14		362				28						
UK 0 44 0 0 1 TANZANIA Image: Constraint of the state of the stat		1	8				1	_	0		0	0	6	
TANZANIA Image: Constraint of the second secon														
USA 1 4 163 0 1 0 0 1 VIET NAM 2 108 22 2			0				44		0		0	1	0	
VIET NAM 2 108 22 OTHERS 3 3 4 4 4		- 1	4			400			-		-		0	
OTHERS 3			4	109		163	0	-	0		0	1	0	
		2						22						
GRAND TOTAL 50 1415 4914 5 198 3154 244 213 10 339 400		50	1415		5	102	3154	244	212	10	330	400	41	

APPENDIX 4	ı	FAO RECOVERED PAPER SURVEY (2009) EXPORTS OF RECOVERED PAPER BY COUNTRY OF DESTINATION IN 2009 (cont.) (1000 mt)												
			- T		1		(100	0 mt)	[[I			
	from	Russian Federation	Slovak Rep.	South Africa	Spain	Sweden	Switzerl.	Thailand	The FYR of Macedonia	Turkey	UK	USA	Total	
to														
ARGENTINA													12	
AUSTRALIA			50		0	10	07	0			0		1	
			52		2	12	67	0			2		882	
BELGIUM BOLIVIA			0		1	0	3	0			27		797	
BULGARIA			0		0	0	0		1		0		<u>6</u> 1	
CANADA			0		0	0	0	0	1		0	1153	1161	
CHINA		6	0		647	30	0	1		13	2792	12825	27416	
CYPRUS		Ŭ	0		0	0	0			10	0	12020	0	
CROATIA			0				Ŭ		5				5	
CZECH REP.			7		0	0	0				0		32	
DENMARK			0		0	14	0				0		53	
ECUADOR			-		5						5		7	
ESTONIA			0		0	0	0				0		2	
FINLAND		5	0		0	17	0	0			0		24	
FRANCE			0		22	0	120	0			84		702	
GERMANY		0	4		7	125	300		0	1	130		2384	
GREECE			0		0	0	0		0		1		2	
GUATEMALA													1	
HUNGARY			11		0	0	0				0		81	
INDIA				4				3		3		1186	1321	
INDONESIA		0		3				12		3		330	579	
IRELAND			0		0	0	0				1		1	
ITALY		4	0		11	19	53				5		253	
JAPAN		-	0		0	0	0	0			0		0	
KAZAKHSTAN LAO PDR		5						4					5 1	
LAU PDR LATVIA			0		0	0	0	1			0		0	
LITHUANIA		4	0		0	0	0				0		5	
MALAYSIA		4	0	1	0	0	0				0		43	
MALTA			0	1	0	0	0				0		43	
MEXICO			0		0	0	0				0	1143	1143	
MYANMAR								1				1140	1	
NETHERLAND		2	0		173	23	2	•			216		3516	
NORWAY			0		0	43	0				30		88	
PAKISTAN										6			9	
PANAMA													122	
PARAGUAY													1	
PERU													1	
PHILIPPINES				2				11					74	
POLAND			4		0	10	0				0		72	
PORTUGAL			0		5	0	0				0		6	
REP. OF KOREA		1		1						1		838	955	
ROMANIA			0		0	0	0				0		0	
RUSSIAN FED.			0		0	0	0				0		2	
SAUDI ARABIA										5			5	
SERBIA									0				0	
SINGAPORE								1					6	
SLOVAK REP.			0		0	0	0				0		85	
SLOVENIA			0		3	0	4		2		2		211	
SOUTH AFRICA			0		0	2	0				15		17	
SPAIN SYRIAN ARAB REP.			0		0	2	0			1	15		999 1	
SYRIAN ARAB REP.			0		0	0	0			1	115		1 387	
SWEDEN			0		1	0	0				25		141	
THAILAND			0	4	1	0	0				20		417	
TURKEY			0	4	0	0	0		2		2		35	
UKRAINE		120	0		0	0	0		2		2		120	
UK		120	0		1	1	0	0			0		74	
TANZANIA							Ŭ	Ű		1			1	
USA			0	0	6	0	0	0			6		186	
								0					141	
VIET NAM								-						
OTHERS		0		0				0		0		1590	1593	

APPENDIX 5: IMPORTS 2009

								SURVE				
APPENDIX 5		IM	PORTS (OF RECO	VERED P		Y COUNT 0 mt)	RY OF DE	ESTINATI	ON IN 200)9	
to	Australia	Austria	Belgium	Brazil	Chile	Colombia	Cuba	Czech Rep.	Finland	France	Germany	Hungary
from												
AUSTRALIA												
AUSTRIA		0	1					7	0		279	28
BELGIUM BULGARIA		1 0	0					0			140 0	0
CAMBODIA		0	0					0	0	0	0	1
CANADA		0	0		1	0	1	0	0	0	0	0
CHINA		0	0					0	0	0	0	0
CHILE												
COSTA RICA					1	7						
CYPRUS		0	0					0		-	0	0
CZECH REP.		99	0					0	-		142	0
DENMARK DOMINICAN REPUBLIC		0	0		6	3	1	0	0	0	211	0
ECUADOR					3		1					
EL SALVADOR					6							
ESTONIA		0	0			_		0	8	0	0	0
FINLAND		0	0					0	0	1	59	0
FRANCE	1	6	360					0	1	0	437	0
GERMANY	1	514	156					15	0	-	0	12
GREECE		0	1					0	0	1	0	0
GUATEMALA HONDURAS					1	2						
HUNGARY		123	0		2	6		1	0	0	6	0
IRELAND		0	4					0		-	0	0
ISRAEL		Ĵ						-				
ITALY		151	0					0	0	67	202	20
JAPAN		0	0					0	0	0	0	0
LAO PDR												
		1	0		-			0	1	0	2	0
MALAYSIA MEXICO						1						
NETHERL.		19	973			1		0	0	75	787	0
NEW CALEDONIA		10	010						Ű	10	101	
NEW ZEALAND	1											
NORWAY		0	0					0	0	0	5	0
PANAMA					2	0						
				9								
PHILIPPINES POLAND		32	0					3	0	0	176	10
POLAND		32	0					3			1/6	18 0
PUERTO RICO		0	0			5			0	0	0	0
REPUBLIC OF KOREA												
ROMANIA		4	0					0			0	13
RUSSIAN FEDERATION		0	0					0	8	0	1	0
SAUDI ARABIA												
		07	~					40		-	400	40
SLOVAK REP. SLOVENIA		97 16	0					12 0	0		106 4	12 6
SPAIN		4	1				1	0			7	0
SWEDEN		12	6					0		0	97	0
SWITZERLAND		64	2					0		-	301	0
UNITED ARAB EMIRATES												
UK		2	95					0	0	75	167	0
URUGUAY			10	4						-	_	
USA ZIMBABWE		5	10		97	51		0	0	0	7	0
OTHERS	1				2	2			1			
	4	1153	1600	13	121			20	33	700	2420	440
GRAND TOTAL	4	1153	1609	13	121	90	3	39	33	788	3136	110

									Y (200			
APPENDIX 5		IMPO	RTS OF F	RECOVER	RED PAPI	ER BY C (100		OF DEST	INATION	IN 2009 (cont.)	
to	Israel	ltaly	Japan	Malaysia	Mexico	Netherl.	New Zealand	Norway	Peru	Poland	Portugal	Romania
from AUSTRALIA				54			418					
AUSTRIA		12				1	410	0		0	0	0
BELGIUM	1	2		10		514		0	1	1	0	0
BULGARIA		0				0		0		0	0	0
CAMBODIA												
CANADA		3		7		0		0	1	0	0	0
CHINA CHILE		0				0		0	1	0	0	0
COSTA RICA									1			
CYPRUS		0				1		0		0	0	0
CZECH REP.		1				6		0		13	0	0
DENMARK		2				106		5		0	0	0
DOMINICAN REPUBLIC									1			
ECUADOR									3			
EL SALVADOR ESTONIA		0			2	1		0		0	0	0
FINLAND		0				2		2		0	0	0
FRANCE		70		18		230		0		0	0	0
GERMANY		68		14		1505	101	0		0	0	0
GREECE		41				3		0		0	0	0
GUATEMALA					8							
HONDURAS									1			
		2		7		0		0		0	0	0
IRELAND ISRAEL		0		7		92		14		0	0	0
ITALY		0		14		73		0		0	0	0
JAPAN		0				0		0		0	0	0
LAO PDR												
LITHUANIA		0				10		0		0	0	0
MALAYSIA												
MEXICO NETHERL.	2	30		20	1	0		12		0	0	0
NEW CALEDONIA	2	30		20	1	0	12	12		0	0	0
NEW ZEALAND				14			12					
NORWAY		0				0		0		0	0	0
PANAMA												
PARAGUAY												
PHILIPPINES								-		-		
POLAND PORTUGAL		2				41 0		0		0	0	0
PUERTO RICO		0				U		0		0	U	U
REPUBLIC OF KOREA												
ROMANIA		0				0		0		0	0	0
RUSSIAN FEDERATION		0		7		4		0		0	0	0
SAUDI ARABIA												
SINGAPORE				96				-		-		
SLOVAK REP. SLOVENIA		0 35				0		0		0	0	1
SLOVENIA	1	35		10		33		0		0	10	0
SWEDEN	1	13		16		2		44		0	0	0
SWITZERLAND		26		7		2		0		0	0	0
UNITED ARAB EMIRATES												
UK		3		50		203		26		0	0	0
URUGUAY		_										
	21	71	43	26	1397	48	18	0	24	0	0	0
ZIMBABWE OTHERS		1	1									
	0.5			070	4 4 0 0	0077	F 40	400		4-	40	
GRAND TOTAL	25	405	44	370	1408	2877	549	103	32	15	10	1

								SURVE					
APPENDIX 5		IMPO	RTS OF F	RECOVER	RED PAP		BY COUNTRY OF DESTINATION IN 2009 (cont.) (1000 mt)						
to	Russian Federation	Slovak Rep.	South Africa	Spain	Sweden	Switzerl.	Thailand	The FYR of Macedonia	Turkey	ΠK	USA	Total	
from AUSTRALIA			15				8					495	
AUSTRIA		1	15	0	0	9				0		340	
BELGIUM		0		0	0	1	3		30	0		852	
BULGARIA		0		0	0	0		1	230	0		232	
CAMBODIA CANADA		0		0	0	0	24			1	279	24 294	
CHINA		0	1	0	0					0	219	294	
CHILE					, , , , , , , , , , , , , , , , , , ,							1	
COSTA RICA												8	
		0		0	0					0		1	
CZECH REP. DENMARK		22 0		0	0 240	0				0		284 566	
DOMINICAN REPUBLIC		0		0	240	0				0		11	
ECUADOR												23	
EL SALVADOR												10	
ESTONIA	4	0		0	0					0		9	
FINLAND FRANCE	1	0	1	0 599	93 6	0 18			80	0		161 1838	
GERMANY		0	1	18	60	53	61		00	10		2818	
GREECE		0		0	0				230	0		276	
GUATEMALA												11	
HONDURAS		-										9	
HUNGARY IRELAND	-	5		0	0					0 55		136 172	
ISRAEL		0		0	0	0	2					2	
ITALY		0		1	0	5			50	0		606	
JAPAN		0		0	0	0				0		350	
LAO PDR							6					6	
LITHUANIA MALAYSIA		0		0	1	0	8			0		15 8	
MEXICO							0				21	° 22	
NETHERL.		0		2	90	3	39		12	17	21	2084	
NEW CALEDONIA												12	
NEW ZEALAND							29					44	
NORWAY		0		0	268	0				0		273	
PANAMA PARAGUAY												2	
PHILIPPINES							35					35	
POLAND		0		0	0	0				0		275	
PORTUGAL		0		251	0	0				0		252	
PUERTO RICO												5	
REPUBLIC OF KOREA ROMANIA		0		0	0	0	3		70	0		3 88	
RUSSIAN FEDERATION		0		0	0				10	0		20	
SAUDI ARABIA							6					6	
SINGAPORE			0				82					178	
SLOVAK REP.		0		0	0					0		228	
SLOVENIA SPAIN		0	0	0	0					0		61 140	
SWEDEN		0	0	17	0					0		227	
SWITZERLAND		0	0	0	0					0		529	
UNITED ARAB EMIRATES							4					4	
UK		0	1	16	126	1	27			0		791	
URUGUAY USA		0	4	1	0	4	216			6		4 2049	
ZIMBABWE		0	2		0	4	210			6		2049	
OTHERS	0		6					1				15	
GRAND TOTAL	1	29	30	904	885	95	936		702	92	300	16426	
			50	504	000	33		-	, 72	J 32	000		