

WORLD TRADE ORGANIZATION

TN/MA/S/8
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Negotiating Group on Market Access

TRADE IN ENVIRONMENTAL GOODS

Note by the Secretariat¹

The Negotiating Group on Market Access, at its meeting of 4-5 November 2002, requested the Secretariat to produce statistics on WTO's Members' trade in environmental goods according to a list proposed by Japan in Annex II of document TN/MA/W/15.

Japan's proposed list of environmental goods has been defined in accordance with the 1996 Harmonized System (HS) nomenclature at the HS 6-digit level. However, for 73 out of the 166 products in this list, the HS 6-digit level is not sufficiently detailed to capture the specific environmental goods indicated. For example, HS subheading 8901.20 refers to tankers, but only the double-hulled oil tankers falling under this subheading are defined as an environmental good. A more precise picture of trade in environmental goods as defined by Japan would require, for each Member, the identification of the imports and exports for the specific "ex" items falling within the HS 6-digit subheading, a task beyond the resources of the Secretariat. Trade data compiled at an HS 6-digit level for items where an "ex" is specified would therefore overestimate the magnitude of trade in environmental goods.

The Secretariat therefore compiled two different sets of statistics: (1) trade in environmental goods that refer only to those HS codes where no further "ex" is specified in the Japanese list; and (2), trade in environmental goods that include all HS codes including those with an "ex". Table 1 presents for both sets of environmental goods the trade data in summary form, i.e. Members' total exports, imports and trade balances and the respective shares of the trade flows in the economy's total merchandise trade. The objective of providing the two sets of data was to present a lower and upper limit of the share of environmental goods as proposed in the Japanese list in an economy's total trade. A more detailed table, presenting the trade by individual HS codes as proposed by Japan is available on the Member's web-site.

The statistics have been sourced from official government data in the United Nations Statistics Division's "COMTRADE" data base and the WTO Integrated Data Base (IDB). By combining these two sources, the widest possible coverage of WTO Members' trade was achieved. Nevertheless, data were not available for 34 Members². Depending on data availability for individual Members, the year 2000 or the nearest year available has been chosen as the reference year.

Annex 1 lists those HS codes of the Japanese list that do not specify an "ex".

¹ This document has been prepared under the Secretariat's own responsibility and without prejudice to the positions of Members and to their rights and obligations under the WTO.

² Angola, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Burundi, Cameroon, Central African Republic, Chad, Congo, Democratic Republic of the Congo, Djibouti, Dominican Republic, Egypt, Ghana, Guinea-Bissau, Guyana, Kuwait, Kyrgyz Republic, Lesotho, Malawi, Mali, Mauritania, Morocco, Mozambique, Myanmar, Namibia, Pakistan, Papua New Guinea, Rwanda, Sierra Leone, Solomon Islands, Suriname, United Arab Emirates.

Table 1
WTO Members: Trade in environmental goods according to the list proposed by Japan, 2000
(or nearest year)
(thousands of US dollars and percentage)

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Albania	Exports	579	0.2	2472	0.9
	Imports	17196	1.6	69560	6.4
	Balance	-16618		-67088	
Antigua and Barbuda	Exports	390	2.6	1070	7.1
	Imports	3624	1.0	30210	8.5
	Balance	-3235		-29140	
Argentina	Exports	229268	0.9	644749	2.4
	Imports	719639	3.0	2717280	11.4
	Balance	-490371		-2072531	
Australia	Exports	562310	0.9	1494673	2.3
	Imports	1962832	2.8	7454939	10.5
	Balance	-1400521		-5960266	
Barbados	Exports	2230	0.8	14309	5.2
	Imports	16595	1.4	112957	9.8
	Balance	-14366		-98648	
Belize	Exports	203	0.1	400	0.2
	Imports	6211	1.4	35203	7.9
	Balance	-6008		-34802	
Benin	Exports	44	0.0	1170	0.6
	Imports	33636	6.1	59177	10.8
	Balance	-33592		-58007	
Bolivia	Exports	15768	1.1	21871	1.5
	Imports	63334	3.4	183156	9.9
	Balance	-47565		-161284	
Botswana	Exports	2673	0.1	29694	0.6
	Imports	53665	1.4	222693	5.8
	Balance	-50992		-192999	
Brazil	Exports	800919	1.4	3335001	6.0
	Imports	1764159	3.0	4938180	8.4
	Balance	-963240		-1603179	
Bulgaria	Exports	69477	1.4	131887	2.7
	Imports	143664	2.2	517034	7.9
	Balance	-74188		-385147	
Canada	Exports	4491890	1.6	20860069	7.5
	Imports	8591703	3.6	23849097	9.9
	Balance	-4099813		-2989028	
Chile	Exports	22669	0.1	341537	1.9
	Imports	365569	2.2	1600517	9.6
	Balance	-342900		-1258980	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
China	Exports	3323473	1.3	13688823	5.5
	Imports	5621387	2.5	18385574	8.2
	Balance	-2297913		-4696751	
Colombia	Exports	26383	0.2	345639	2.6
	Imports	349671	3.0	1159205	10.0
	Balance	-323288		-813565	
Costa Rica	Exports	11801	0.2	162404	3.0
	Imports	117945	2.0	693484	11.5
	Balance	-106144		-531080	
Côte d'Ivoire	Exports	...	...	...	...
	Imports	24807	1.0	136836	5.5
	Balance	...		...
Croatia	Exports	57636	1.3	412736	9.3
	Imports	134574	1.7	1073678	13.6
	Balance	-76938		-660941	
Cuba	Exports	...	...	...	...
	Imports	137644	2.8	445064	9.2
	Balance	...		...
Cyprus	Exports	4195	0.4	32661	3.4
	Imports	44278	1.2	340153	8.8
	Balance	-40083		-307492	
Czech Rep.	Exports	654754	2.3	3225573	11.1
	Imports	979172	3.0	3057245	9.5
	Balance	-324418		168328	
Dominica	Exports	40	0.1	593	1.1
	Imports	1874	1.3	12989	8.8
	Balance	-1834		-12397	
Ecuador	Exports	2265	0.0	20237	0.4
	Imports	81111	2.4	324693	9.4
	Balance	-78846		-304456	
El Salvador	Exports	5060	0.4	106410	7.9
	Imports	54821	1.4	278237	7.3
	Balance	-49761		-171827	
Estonia	Exports	61870	1.6	188681	4.9
	Imports	91626	1.8	433735	8.6
	Balance	-29756		-245054	
European Union (15) ³	Exports	28588011	3.3	81881001	9.4
	Imports	19922305	2.1	71709827	7.5
	Balance	8665707		10171175	
Fiji	Exports	397	0.1	2247	0.5
	Imports	...	...	...	...
	Balance	...		...
Gabon	Exports	1633	0.1	5307	0.2
	Imports	35286	3.7	124722	13.0
	Balance	-33654		-119415	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Gambia	Exports	2	0.0	410	2.5
	Imports	1444	0.8	12222	6.5
	Balance	-1442		-11812	
Georgia	Exports	2572	0.8	7114	2.2
	Imports	14281	2.2	39448	6.1
	Balance	-11709		-32334	
Grenada	Exports	117	0.2	2904	3.8
	Imports	3022	1.3	18656	7.8
	Balance	-2905		-15752	
Guatemala	Exports	4937	0.2	76833	2.8
	Imports	86869	1.8	474058	9.7
	Balance	-81932		-397225	
Guinea	Exports	103	0.0	159	0.0
	Imports	12102	2.0	31651	5.2
	Balance	-11998		-31493	
Haiti	Exports	12	0.0	4852	8.0
	Imports	...	...	...	...
	Balance	...		...
Honduras	Exports	467	0.0	7668	0.7
	Imports	40081	1.4	268358	9.2
	Balance	-39614		-260690	
Hong Kong, China ⁴	Exports	3477265	1.7	11209689	5.5
	Imports	3212725	1.5	13563600	6.3
	Balance	264540		-2353911	
Hungary	Exports	523328	1.9	3938288	14.0
	Imports	955832	3.0	4365597	13.6
	Balance	-432504		-427309	
Iceland	Exports	4464	0.2	11527	0.6
	Imports	61780	2.6	205065	8.6
	Balance	-57316		-193538	
India	Exports	253139	0.6	865204	1.9
	Imports	868647	1.7	2276648	4.4
	Balance	-615507		-1411443	
Indonesia	Exports	208799	0.3	3031003	4.9
	Imports	787786	2.4	2041847	6.1
	Balance	-578987		989156	
Israel	Exports	848513	2.7	1561633	5.0
	Imports	805397	2.3	2992432	8.4
	Balance	43116		-1430799	
Jamaica	Exports	4998	0.4	9159	0.7
	Imports	44217	1.4	280189	8.8
	Balance	-39220		-271029	
Japan	Exports	17513253	3.7	63034375	13.2
	Imports	6913942	1.8	22759328	6.0
	Balance	10599311		40275047	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Jordan	Exports	20439	1.6	142289	11.0
	Imports	75637	1.9	397104	9.9
	Balance	-55198		-254815	
Kenya	Exports	1152	0.1	27804	1.8
	Imports	66982	2.3	189831	6.6
	Balance	-65830		-162027	
Korea, Rep. of	Exports	1821521	1.1	19231530	11.2
	Imports	4284191	2.7	12639246	7.9
	Balance	-2462670		6592284	
Latvia	Exports	17074	0.9	50293	2.7
	Imports	81123	2.5	320499	10.0
	Balance	-64048		-270206	
Lithuania	Exports	47791	1.3	185954	4.9
	Imports	115251	2.1	403357	7.4
	Balance	-67460		-217403	
Macao, China	Exports	2386	0.1	9360	0.4
	Imports	6139	0.3	106289	4.7
	Balance	-3753		-96930	
Madagascar	Exports	3311	1.4	5037	2.2
	Imports	8876	1.8	30705	6.1
	Balance	-5565		-25667	
Malaysia	Exports	918102	0.9	8609784	8.8
	Imports	2052009	2.5	6763966	8.3
	Balance	-1133906		1845818	
Maldives	Exports	0	0.0	0	0.0
	Imports	5638	1.5	33029	8.5
	Balance	-5638		-33029	
Malta	Exports	12803	0.5	27068	1.1
	Imports	25664	0.8	188413	5.5
	Balance	-12861		-161345	
Mauritius	Exports	9826	0.7	14514	1.0
	Imports	28859	1.4	151375	7.3
	Balance	-19033		-136861	
Mexico	Exports	4118692	2.5	17200930	10.4
	Imports	6102669	3.2	17467606	9.2
	Balance	-1983977		-266676	
Moldova, Rep. of	Exports	8794	1.9	18526	3.9
	Imports	9924	1.3	46583	6.0
	Balance	-1130		-28058	
Mongolia	Exports	674	0.1	690	0.1
	Imports	12865	2.1	37576	6.1
	Balance	-12190		-36886	
New Zealand	Exports	98487	0.7	526431	4.0
	Imports	252119	1.8	1144986	8.2
	Balance	-153632		-618554	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Nicaragua	Exports	160	0.0	1360	0.2
	Imports	23745	1.4	144202	8.4
	Balance	-23585		-142842	
Niger	Exports	171	0.1	394	0.3
	Imports	4858	1.5	14512	4.5
	Balance	-4687		-14119	
Nigeria	Exports	1330	0.0	2727	0.0
	Imports	83163	1.4	578408	10.0
	Balance	-81834		-575681	
Norway	Exports	390737	0.7	2201071	3.7
	Imports	742229	2.2	3760984	10.9
	Balance	-351493		-1559913	
Oman	Exports	5934	0.1	167219	1.5
	Imports	56384	1.1	527587	10.5
	Balance	-50450		-360368	
Panama	Exports	151	0.0	26986	3.5
	Imports	53250	1.6	294263	8.7
	Balance	-53099		-267277	
Paraguay	Exports	430	0.0	3588	0.4
	Imports	40995	1.9	209965	9.6
	Balance	-40565		-206377	
Peru	Exports	3178	0.0	35587	0.5
	Imports	167166	2.3	698960	9.4
	Balance	-163988		-663373	
Philippines	Exports	56370	0.1	530115	1.4
	Imports	359908	1.1	1927773	5.7
	Balance	-303538		-1397659	
Poland	Exports	509940	1.6	3657798	11.6
	Imports	1325121	2.7	5797644	11.9
	Balance	-815181		-2139846	
Qatar	Exports	4	0.0	372	0.0
	Imports	272787	7.3	857193	22.8
	Balance	-272784		-856822	
Romania	Exports	69267	0.7	218960	2.1
	Imports	322425	2.5	1010164	7.7
	Balance	-253158		-791204	
Senegal	Exports	324	0.0	8389	1.2
	Imports	39536	2.5	111866	7.2
	Balance	-39213		-103477	
Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu	Exports	3212379	2.2	7761255	5.2
	Imports	4704123	3.4	18937020	13.5
	Balance	-1491743		-11175766	
Singapore	Exports	1996500	1.4	19063777	13.8
	Imports	3235995	2.4	14530932	10.8
	Balance	-1239495		4532846	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Slovak Rep.	Exports	162429	1.4	965002	8.1
	Imports	390417	3.1	1166484	9.1
	Balance	-227988		-201482	
Slovenia	Exports	327177	3.7	1855364	21.2
	Imports	256704	2.5	913907	9.0
	Balance	70473		941457	
South Africa	Exports	900299	3.5	1634589	6.3
	Imports	693632	2.6	2013704	7.6
	Balance	206667		-379114	
Sri Lanka	Exports	20698	0.4	38334	0.8
	Imports	52645	1.0	368131	6.8
	Balance	-31947		-329797	
St. Kitts and Nevis	Exports	24	0.1	204	0.6
	Imports	1852	0.9	14596	7.5
	Balance	-1828		-14392	
St. Lucia	Exports	878	2.0	2628	6.1
	Imports	5382	1.5	31218	8.8
	Balance	-4504		-28590	
St. Vincent and the Grenadines	Exports	283	0.6	1218	2.4
	Imports	1484	0.9	13455	8.3
	Balance	-1201		-12237	
Swaziland	Exports	2557	0.4	25624	3.8
	Imports	8557	1.0	51982	6.2
	Balance	-6000		-26358	
Switzerland ⁵	Exports	3083767	3.8	7563504	9.3
	Imports	1805462	2.2	6241623	7.5
	Balance	1278305		1321881	
Tanzania, United Rep. of	Exports	5060	0.8	7615	1.2
	Imports	57028	3.6	138217	8.7
	Balance	-51969		-130603	
Thailand	Exports	546295	0.8	4781642	7.0
	Imports	1346758	2.2	3935705	6.4
	Balance	-800463		845937	
Togo	Exports	118	0.1	6231	3.3
	Imports	4812	1.5	28315	8.7
	Balance	-4694		-22083	
Trinidad and Tobago	Exports	8613	0.2	91744	2.1
	Imports	123895	3.7	324175	9.8
	Balance	-115282		-232431	
Tunisia	Exports	39277	0.7	107234	1.8
	Imports	224853	2.6	752814	8.8
	Balance	-185575		-645580	
Turkey	Exports	148930	0.5	2054774	7.5
	Imports	1064034	2.0	4449024	8.2
	Balance	-915104		-2394250	

Member		Excluding "ex" ¹		Including "ex" ²	
		Total Environmental goods	Share in Economy's Total Merchandise Trade	Total Environmental goods	Share in Economy's Total Merchandise Trade
Uganda	Exports	1648	0.4	2463	0.6
	Imports	32438	3.5	86658	9.3
	Balance	-30790		-84195	
United States	Exports	29209396	3.7	78138245	10.0
	Imports	24976438	2.0	92209659	7.3
	Balance	4232957		-14071414	
Uruguay	Exports	1316	0.1	121548	5.3
	Imports	47169	1.4	320616	9.3
	Balance	-45853		-199067	
Venezuela	Exports	25432	0.1	137140	0.4
	Imports	711429	4.9	2213756	15.2
	Balance	-685997		-2076616	
Zambia	Exports	2156	0.3	3918	0.6
	Imports	28827	2.9	83042	8.4
	Balance	-26670		-79124	
Zimbabwe	Exports	7340	0.4	22084	1.1
	Imports	...	...	...	...
	Balance	...		...

Note: Balance = Exports minus Imports

Source: United Nations Comtrade Database and WTO Integrated Data Base

¹ sum of HS codes listed in the Japanese where no "ex" is specified (93 items)

² sum of distinct HS codes listed in the Japanese list (150 items)

³ excludes intra-EU trade

⁴ includes significant re-exports

⁵ includes Liechtenstein

Annex 1

HS codes of the list proposed by Japan where no "ex" part is specified (93 items)

HS codes	HS description
252100	Limestone flux; limestone and other calcareous stone, of a kind used for the manufacture of lime or cement
630900	Worn clothing and other worn articles
6310	Used or new rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials
681099	Articles of cement, of concrete or of artificial stone, whether or not reinforced; Other
700800	Multiple-walled insulating units of glass
701710	Laboratory, hygienic or pharmaceutical glassware; Of fused quartz or other fused silica
701720	Laboratory, hygienic or pharmaceutical glassware; Of other glass having a linear coefficient of expansion not exceeding 5×10^{-6} per Kelvin within a temperature range of 0C to 300C
701790	Laboratory, hygienic or pharmaceutical glassware; Other
732510	Other cast articles of iron or steel; Of non-malleable cast iron
780600	Other articles of lead
840410	Auxiliary plant for use with boilers of heading No 8402 or 8403
840420	Condensers for steam or other vapour power units
841011	Hydraulic turbines and water wheels of a power not exceeding 1,000 kw
841012	Hydraulic turbines and water wheels of a power exceeding 1,000 kw but not exceeding 10,000 kw
841013	Hydraulic turbines and water wheels of a power exceeding 10,000 kw
841090	Hydraulic turbines and water wheels; parts, including regulators
841320	Hand pumps, other than those of subheading No 841311 or 841319
841350	Other reciprocating positive displacement pumps
841410	Vacuum pumps
841430	Compressors of a kind used in refrigerating equipment
841440	Air compressors mounted on a wheeled chassis for towing
841459	Fans other than table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W
841480	Air or Vacuum pumps, air or vacuum compressors and fans; other
841490	Parts of HS headings 8414
841940	Distilling or rectifying plant
841950	Heat exchange units
841960	Machinery for liquefying air or other gases
842119	Centrifuges, including centrifugal dryers, other than cream separators and clothes-dryers
842121	Filtering or purifying machinery and apparatus for liquids: for filtering or purifying water
842129	Filtering or Purifying Machinery and Apparatus For Liquids; other
842139	Filtering or Purifying Machinery and Apparatus For Gases; other
842199	Parts of Centrifuges, Including Centrifugal Dryers
842220	Machinery for cleaning or drying bottles or other containers
842381	Weighing Machinery having a maximum weighing capacity not exceeding 30 kg
842382	Weighing Machinery having a maximum weighing capacity exceeding 30 kg but not exceeding 5000 kg
842389	Other Weighing Machinery

HS codes	HS description
842490	Parts of Mechanical appliances for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar machines and similar jet projecting machines
847529	Machines for manufacturing or hot working glass or glassware :Other
848050	Moulds for glass
848110	Pressure-reducing valves
848130	Check valves
848140	Safety or relief valves
848180	Other valves
850231	Electric generating sets and rotary converters; Wind-powered
851490	Parts of Industrial or Laboratory Furnaces and Ovens
853931	Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps; Fluorescent, hot cathode
870892	Silencers and exhaust pipes
901320	Lasers, other than laser diodes
901380	Flat panel displays devices (including LCD, Electro Luminescence, Plasma, Vacuum Fluorescence and other technologies) for products falling within this agreement, and parts thereof
901540	Photogrammetrical surveying instruments and appliances
901580	Other surveying, hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses
901590	Parts and accessories of surveying, hydrological, meteorological, or geophysical instruments and appliances, excluding compasses
902229	Apparatus based on the use of X-rays or of alpha, beta or gamma Radiations for other than medical, surgical, dental or veterinary uses
902511	Thermometers and pyrometers, not combined with other instruments: liquid-filled, for direct reading
902519	Thermometers and pyrometers, not combined with other instruments: other than liquid-filled, for direct reading
902580	Hydrometers and similar floating instruments, thermometers pyrometers, barometers, hygrometers, and psychrometers, recording or not, and any combination of these instruments
902590	Parts and Accessories for Hydrometers and similar floating instruments, thermometers pyrometers, barometers, hygrometers, and psychrometers, recording or not, and any combination of these instruments
902610	Instruments and apparatus for measuring or checking the flow or level of liquid
902620	Instruments and apparatus for measuring or checking pressure
902680	Other instruments and apparatus
902690	Parts and accessories for articles of subheading 9026
902710	Gas or smoke analysis apparatus
902720	Chromatographs and electrophoresis instruments
902730	Spectrometers, Spectrophotometers and Spectrographs Using Optical Radiations (Ultraviolet, Visible, Infrared)
902740	Exposure Meters
902750	Other instruments and apparatus using optical Radiations (UV, visible, IR)
902780	Other instruments and apparatus for physical or chemical analysis
902790	Microtomes; parts and accessories
902810	Gas Meters
902820	Liquid Meters
902830	Electricity Meters

HS codes	HS description
902890	Parts and accessories for articles of subheading 9028
903010	Instruments and apparatus for measuring or detecting ionising Radiations
903020	Cathode-ray Oscilloscopes and Cathode-ray Oscillographs
903031	Multimeters
903039	Other instruments and apparatus, for measuring or checking voltage, current, resistance or power, without a recording device
903083	Other instruments and apparatus for measuring or checking electrical quantities, with a recording device
903089	Other Instruments and Apparatus for Measuring or Checking Electrical Quantities
903090	Parts and accessories (for nominated articles of subheading 9030)
903110	Machines for Balancing Mechanical Parts
903120	Test Benches
903130	Profile Projectors
903149	Other Measuring and Checking instruments, appliances and machines, not specified or included elsewhere in this chapter
903180	Other Measuring or Checking Instruments, Appliances and Machines, not elsewhere specified in this chapter
903190	Parts and accessories of Hs headings 9031
903210	Thermostats
903220	Manostats
903281	Hydraulic and Pneumatic Instruments and Apparatus
903289	Automatic Regulating or Controlling Instruments, other
903290	Parts and accessories
903300	Parts and Accessories (Not Specified or Included Elsewhere in this Chapter) for Machines, Appliances, Instruments or Apparatus of Ch 90
960310	Brooms and brushes, consisting of twigs or other vegetable materials bound together, with or without handles
960350	Other brushes constituting parts of machines, appliances or vehicles