

*Supplementary Information*

## Using Multiple Tools to Analyze Resource Exchange in China. *Sustainability* 2015, 7, 12372-12385

Nan Li <sup>1</sup>, Tianzhu Zhang <sup>2,\*</sup>, Jianchuan Qi <sup>3</sup> and Yuanyi Huang <sup>4</sup>

<sup>1</sup> School of Information Management, Beijing Information Science & Technology University, Beijing 100192, China; E-Mail: linan@bistu.edu.cn

<sup>2</sup> School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Tsinghua University, Beijing 100084, China

<sup>3</sup> College of Architecture and Environment, Sichuan University, Chengdu 610065, China; E-Mail: qjc@stu.scu.edu.cn

<sup>4</sup> Civil and Environmental Engineering School, University of Science and Technology Beijing, Beijing 100083, China; E-Mail: b20140065@xs.ustb.edu.cn

\* Author to whom correspondence should be addressed; E-Mail: zhangtz@tsinghua.edu.cn; Tel.: +86-10-6278-5610.

**Table S1.** Commodity allocation of SITC and material production sectors.

SITC	Sector ID	MIOT Sector Name
41	1	Crop cultivation, forestry livestock, livestock products and fishery
42	1	Crop cultivation, forestry livestock, livestock products and fishery
43	1	Crop cultivation, forestry livestock, livestock products and fishery
44	1	Crop cultivation, forestry livestock, livestock products and fishery
45	1	Crop cultivation, forestry livestock, livestock products and fishery
46	1	Crop cultivation, forestry livestock, livestock products and fishery
47	1	Crop cultivation, forestry livestock, livestock products and fishery
48	1	Crop cultivation, forestry livestock, livestock products and fishery
54.1	1	Crop cultivation, forestry livestock, livestock products and fishery
56.41	1	Crop cultivation, forestry livestock, livestock products and fishery
56.42	1	Crop cultivation, forestry livestock, livestock products and fishery
56.45	1	Crop cultivation, forestry livestock, livestock products and fishery
56.47	1	Crop cultivation, forestry livestock, livestock products and fishery
56.61	1	Crop cultivation, forestry livestock, livestock products and fishery
61.1	1	Crop cultivation, forestry livestock, livestock products and fishery
61.2	1	Crop cultivation, forestry livestock, livestock products and fishery
61.5	1	Crop cultivation, forestry livestock, livestock products and fishery
54.2	1	Crop cultivation, forestry livestock, livestock products and fishery
56.46	1	Crop cultivation, forestry livestock, livestock products and fishery
57.7	1	Crop cultivation, forestry livestock, livestock products and fishery
58.92	1	Crop cultivation, forestry livestock, livestock products and fishery

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
222	1	Crop cultivation, forestry livestock, livestock products and fishery
223	1	Crop cultivation, forestry livestock, livestock products and fishery
54.4	1	Crop cultivation, forestry livestock, livestock products and fishery
54.5	1	Crop cultivation, forestry livestock, livestock products and fishery
54.6	1	Crop cultivation, forestry livestock, livestock products and fishery
54.7	1	Crop cultivation, forestry livestock, livestock products and fishery
54.8	1	Crop cultivation, forestry livestock, livestock products and fishery
56.1	1	Crop cultivation, forestry livestock, livestock products and fishery
56.69	1	Crop cultivation, forestry livestock, livestock products and fishery
56.7	1	Crop cultivation, forestry livestock, livestock products and fishery
56.48	1	Crop cultivation, forestry livestock, livestock products and fishery
57	1	Crop cultivation, forestry livestock, livestock products and fishery
58	1	Crop cultivation, forestry livestock, livestock products and fishery
59	1	Crop cultivation, forestry livestock, livestock products and fishery
263	1	Crop cultivation, forestry livestock, livestock products and fishery
264	1	Crop cultivation, forestry livestock, livestock products and fishery
265	1	Crop cultivation, forestry livestock, livestock products and fishery
71	6	Food and tobacco products
72	6	Food and tobacco products
73	6	Food and tobacco products
74	6	Food and tobacco products
75	6	Food and tobacco products
121	6	Food and tobacco products
122	6	Food and tobacco products
81.11	1	Crop cultivation, forestry livestock, livestock products and fishery
81.12	1	Crop cultivation, forestry livestock, livestock products and fishery
81.13	1	Crop cultivation, forestry livestock, livestock products and fishery
246	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
247	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
248	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
634	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
635	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
245	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
633	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
231	1	Crop cultivation, forestry livestock, livestock products and fishery
244	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
34	1	Crop cultivation, forestry livestock, livestock products and fishery
35	1	Crop cultivation, forestry livestock, livestock products and fishery
37.1	1	Crop cultivation, forestry livestock, livestock products and fishery
36	1	Crop cultivation, forestry livestock, livestock products and fishery
37.2	1	Crop cultivation, forestry livestock, livestock products and fishery
292.97	1	Crop cultivation, forestry livestock, livestock products and fishery
1	1	Crop cultivation, forestry livestock, livestock products and fishery
11	1	Crop cultivation, forestry livestock, livestock products and fishery

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
12	1	Crop cultivation, forestry livestock, livestock products and fishery
16	1	Crop cultivation, forestry livestock, livestock products and fishery
17	1	Crop cultivation, forestry livestock, livestock products and fishery
22	1	Crop cultivation, forestry livestock, livestock products and fishery
23	1	Crop cultivation, forestry livestock, livestock products and fishery
24	1	Crop cultivation, forestry livestock, livestock products and fishery
25	1	Crop cultivation, forestry livestock, livestock products and fishery
61.6	1	Crop cultivation, forestry livestock, livestock products and fishery
261	1	Crop cultivation, forestry livestock, livestock products and fishery
268	1	Crop cultivation, forestry livestock, livestock products and fishery
291	1	Crop cultivation, forestry livestock, livestock products and fishery
211	1	Crop cultivation, forestry livestock, livestock products and fishery
212	1	Crop cultivation, forestry livestock, livestock products and fishery
411	8	Wearing apparel, leather, furs, down and related products
431	8	Wearing apparel, leather, furs, down and related products
611	8	Wearing apparel, leather, furs, down and related products
612	8	Wearing apparel, leather, furs, down and related products
613	8	Wearing apparel, leather, furs, down and related products
81.19	6	Food and tobacco products
81.2	6	Food and tobacco products
81.3	6	Food and tobacco products
81.4	6	Food and tobacco products
81.5	6	Food and tobacco products
81.9	6	Food and tobacco products
61.9	6	Food and tobacco products
62	6	Food and tobacco products
91	6	Food and tobacco products
98	6	Food and tobacco products
111	6	Food and tobacco products
112	6	Food and tobacco products
251	10	Paper, printing, record medium reproduction, cultural goods and recreation products
272.1	6	Food and tobacco products
292	6	Food and tobacco products
421	6	Food and tobacco products
422	6	Food and tobacco products
641	10	Paper, printing, record medium reproduction, cultural goods and recreation products
642	10	Paper, printing, record medium reproduction, cultural goods and recreation products
274.2	4	Metal ore mining
281	4	Metal ore mining
282	14	Metal smelting and processing
671	14	Metal smelting and processing
672	14	Metal smelting and processing
673	14	Metal smelting and processing
674	14	Metal smelting and processing
675	14	Metal smelting and processing

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
676	14	Metal smelting and processing
677	14	Metal smelting and processing
678	14	Metal smelting and processing
679	14	Metal smelting and processing
693.11	14	Metal smelting and processing
693.2	14	Metal smelting and processing
693.5	14	Metal smelting and processing
283	4	Metal ore mining
288.21	14	Metal smelting and processing
682	14	Metal smelting and processing
693.12	14	Metal smelting and processing
284	4	Metal ore mining
288.22	14	Metal smelting and processing
683	14	Metal smelting and processing
287.4	4	Metal ore mining
288.24	14	Metal smelting and processing
685	14	Metal smelting and processing
287.5	4	Metal ore mining
288.25	14	Metal smelting and processing
686	14	Metal smelting and processing
287.6	4	Metal ore mining
288.26	4	Metal ore mining
687	14	Metal smelting and processing
289	4	Metal ore mining
681	4	Metal ore mining
285	4	Metal ore mining
288.23	4	Metal ore mining
684	14	Metal smelting and processing
693.13	14	Metal smelting and processing
286	4	Metal ore mining
525	4	Metal ore mining
287.7	4	Metal ore mining
287.8	4	Metal ore mining
287.9	4	Metal ore mining
288.1	4	Metal ore mining
689	14	Metal smelting and processing
691	15	Metal products
692	15	Metal products
694	15	Metal products
695	15	Metal products
696	15	Metal products
697	15	Metal products
699	15	Metal products
711	15	Metal products
712	15	Metal products

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
713	15	Metal products
714	15	Metal products
716	15	Metal products
718	15	Metal products
721	16	General and special industrial machinery
722	16	General and special industrial machinery
723	16	General and special industrial machinery
724	16	General and special industrial machinery
725	16	General and special industrial machinery
726	16	General and special industrial machinery
727	16	General and special industrial machinery
728	16	General and special industrial machinery
731	16	General and special industrial machinery
733	16	General and special industrial machinery
735	16	General and special industrial machinery
737	16	General and special industrial machinery
741	16	General and special industrial machinery
742	16	General and special industrial machinery
743	16	General and special industrial machinery
744	16	General and special industrial machinery
745	16	General and special industrial machinery
746	16	General and special industrial machinery
747	16	General and special industrial machinery
748	16	General and special industrial machinery
749	16	General and special industrial machinery
751	19	Computer, communication and other electronic equipment
752	19	Computer, communication and other electronic equipment
759	19	Computer, communication and other electronic equipment
761	19	Computer, communication and other electronic equipment
762	19	Computer, communication and other electronic equipment
763	19	Computer, communication and other electronic equipment
764	19	Computer, communication and other electronic equipment
771	18	Electric machinery and equipment
772	18	Electric machinery and equipment
773	18	Electric machinery and equipment
774	18	Electric machinery and equipment
775	18	Electric machinery and equipment
776	18	Electric machinery and equipment
778	18	Electric machinery and equipment
781	17	Transport machinery
782	17	Transport machinery
783	17	Transport machinery
784	17	Transport machinery
785	17	Transport machinery
786	17	Transport machinery

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
791	17	Transport machinery
792	17	Transport machinery
793	17	Transport machinery
961	17	Transport machinery
971	17	Transport machinery
273.12	5	Non-metal minerals and other mining
273.13	5	Non-metal minerals and other mining
661.3	5	Non-metal minerals and other mining
278.23	5	Non-metal minerals and other mining
278.91	5	Non-metal minerals and other mining
273.11	5	Non-metal minerals and other mining
272.3	5	Non-metal minerals and other mining
562.39	5	Non-metal minerals and other mining
274.1	5	Non-metal minerals and other mining
278.54	5	Non-metal minerals and other mining
278.92	5	Non-metal minerals and other mining
278.94	5	Non-metal minerals and other mining
278.99	5	Non-metal minerals and other mining
562	5	Non-metal minerals and other mining
278.3	5	Non-metal minerals and other mining
272.2	5	Non-metal minerals and other mining
278.97	5	Non-metal minerals and other mining
277.1	5	Non-metal minerals and other mining
277.2	5	Non-metal minerals and other mining
278.22	5	Non-metal minerals and other mining
278.24	5	Non-metal minerals and other mining
278.25	5	Non-metal minerals and other mining
278.4	5	Non-metal minerals and other mining
278.51	5	Non-metal minerals and other mining
278.52	5	Non-metal minerals and other mining
278.53	5	Non-metal minerals and other mining
278.61	5	Non-metal minerals and other mining
278.62	5	Non-metal minerals and other mining
278.69	5	Non-metal minerals and other mining
278.93	5	Non-metal minerals and other mining
278.95	5	Non-metal minerals and other mining
278.98	5	Non-metal minerals and other mining
667.1	5	Non-metal minerals and other mining
667.2	5	Non-metal minerals and other mining
667.3	5	Non-metal minerals and other mining
667.4	5	Non-metal minerals and other mining
273.2	5	Non-metal minerals and other mining
273.3	5	Non-metal minerals and other mining
273.4	5	Non-metal minerals and other mining
278.26	5	Non-metal minerals and other mining

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
278.27	5	Non-metal minerals and other mining
278.29	5	Non-metal minerals and other mining
662	5	Non-metal minerals and other mining
663	13	Non-metallic mineral products
664	13	Non-metallic mineral products
665	13	Non-metallic mineral products
666	13	Non-metallic mineral products
661.1	13	Non-metallic mineral products
661.2	13	Non-metallic mineral products
661.8	13	Non-metallic mineral products
322.2	2	Coal mining and processing
321	2	Coal mining and processing
322.1	2	Coal mining and processing
278.96	2	Coal mining and processing
322.3	2	Coal mining and processing
333	3	Crude petroleum and natural gas products
334	3	Crude petroleum and natural gas products
335	3	Crude petroleum and natural gas products
343.1	3	Crude petroleum and natural gas products
343.2	3	Crude petroleum and natural gas products
344	3	Crude petroleum and natural gas products
345	3	Crude petroleum and natural gas products
342	3	Crude petroleum and natural gas products
232	11	Petroleum refining, coking and nuclear fuel products
266	11	Petroleum refining, coking and nuclear fuel products
267	11	Petroleum refining, coking and nuclear fuel products
325	11	Petroleum refining, coking and nuclear fuel products
511	11	Petroleum refining, coking and nuclear fuel products
512	11	Petroleum refining, coking and nuclear fuel products
513	11	Petroleum refining, coking and nuclear fuel products
514	11	Petroleum refining, coking and nuclear fuel products
515	11	Petroleum refining, coking and nuclear fuel products
516	11	Petroleum refining, coking and nuclear fuel products
571	11	Petroleum refining, coking and nuclear fuel products
572	11	Petroleum refining, coking and nuclear fuel products
573	11	Petroleum refining, coking and nuclear fuel products
574	11	Petroleum refining, coking and nuclear fuel products
575	11	Petroleum refining, coking and nuclear fuel products
579	11	Petroleum refining, coking and nuclear fuel products
581	11	Petroleum refining, coking and nuclear fuel products
582	11	Petroleum refining, coking and nuclear fuel products
583	11	Petroleum refining, coking and nuclear fuel products
621	11	Petroleum refining, coking and nuclear fuel products
625	11	Petroleum refining, coking and nuclear fuel products
629	11	Petroleum refining, coking and nuclear fuel products

Table S1. *Cont.*

SITC	Sector ID	MIOT Sector Name
269	22	Scrap and waste
522	12	Chemical products
523	12	Chemical products
524	12	Chemical products
531	12	Chemical products
532	12	Chemical products
533	12	Chemical products
541	12	Chemical products
542	12	Chemical products
551	12	Chemical products
553	12	Chemical products
554	12	Chemical products
591	12	Chemical products
592	12	Chemical products
593	12	Chemical products
597	12	Chemical products
598	12	Chemical products
651	7	Textiles
652	7	Textiles
653	7	Textiles
654	7	Textiles
655	7	Textiles
656	7	Textiles
657	7	Textiles
658	7	Textiles
659	7	Textiles
811	21	Arts, crafts products and other manufacturing products
812	18	Electric machinery and equipment
813	18	Electric machinery and equipment
821	9	Sawmills, fibreboard, furniture and products of wood, bamboo, cane, palm, straw, <i>etc.</i>
831	20	Instruments, meters, other measuring equipment and office equipment
841	8	Wearing apparel, leather, furs, down and related products
842	8	Wearing apparel, leather, furs, down and related products
843	8	Wearing apparel, leather, furs, down and related products
844	8	Wearing apparel, leather, furs, down and related products
845	8	Wearing apparel, leather, furs, down and related products
846	8	Wearing apparel, leather, furs, down and related products
848	8	Wearing apparel, leather, furs, down and related products
851	8	Wearing apparel, leather, furs, down and related products
871	20	Instruments, meters, other measuring equipment and office equipment
872	20	Instruments, meters, other measuring equipment and office equipment
873	20	Instruments, meters, other measuring equipment and office equipment
874	20	Instruments, meters, other measuring equipment and office equipment
881	20	Instruments, meters, other measuring equipment and office equipment
882	20	Instruments, meters, other measuring equipment and office equipment

**Table S1. Cont.**

SITC	Sector ID	MIOT Sector Name
883	20	Instruments, meters, other measuring equipment and office equipment
884	20	Instruments, meters, other measuring equipment and office equipment
885	20	Instruments, meters, other measuring equipment and office equipment
891	21	Arts, crafts products and other manufacturing products
892	10	Paper, printing, record medium reproduction, cultural goods and recreation products
893	21	Arts, crafts products and other manufacturing products
894	20	Instruments, meters, other measuring equipment and office equipment
895	20	Instruments, meters, other measuring equipment and office equipment
896	21	Arts, crafts products and other manufacturing products
897	21	Arts, crafts products and other manufacturing products
898	21	Arts, crafts products and other manufacturing products
899	21	Arts, crafts products and other manufacturing products
599	22	Scrap and waste

**Table S2.** Commodity allocation of material production sectors and EW-MFA import categories.

EW-MFA Code	SITC	Name
2.1.1.1	41	Wheat (including spelt) and meslin, unmilled
2.1.1.1	42	Rice
2.1.1.1	43	Barley, unmilled
2.1.1.1	44	Maize (not including sweet corn), unmilled
2.1.1.1	45	Cereals, unmilled (other than wheat, rice, barley and maize)
2.1.1.1	46	Meal and flour of wheat and flour of meslin
2.1.1.1	47	Other cereal meals and flours
2.1.1.1	48	Cereal preparations and preparations of flour or starch of fruits or vegetables
2.1.1.2	54.1	Potatoes, fresh or chilled (not including sweet potatoes)
2.1.1.2	56.41	Flour and meal of potatoes
2.1.1.2	56.42	Flakes, granules and pellets of potatoes
2.1.1.2	56.45	Tapioca and substitutes therefor prepared from starch, in the form of flakes, grains, pearls, siftings or in similar forms
2.1.1.2	56.47	Flour and meal of sago, roots or tubers of headings 054.81 and 054.83
2.1.1.2	56.61	Potatoes prepared or preserved otherwise than by vinegar or acetic acid, frozen
2.1.1.3	61.1	Sugars, beet or cane, raw, in solid form, not containing added flavouring or colouring matter
2.1.1.3	61.2	Other beet or cane sugar and chemically pure sucrose, in solid form
2.1.1.3	61.5	Molasses resulting from the extraction or refining of sugar
2.1.1.4	54.2	Leguminous vegetables, dried, shelled, whether or not skinned or split.
2.1.1.4	56.46	Flour and meal of the dried leguminous vegetables of subgroup 054.2
2.1.1.5	57.7	Edible nuts (excluding nuts chiefly used for the extraction of oil), fresh or dried, whether or not shelled or peeled
2.1.1.5	58.92	Nuts, groundnuts and other seeds, n.e.s.
2.1.1.6	222	Oil-seeds and oleaginous fruits of a kind used for the extraction of "soft" fixed vegetable oils (excluding flours and meals)

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.1.1.6	223	Oil-seeds and oleaginous fruits, whole or broken, of a kind used for the extraction of other fixed vegetable oils (including flours and meals of oil-seeds or oleaginous fruit, n.e.s.)
2.1.1.7	54.4	Tomatoes, fresh or chilled
2.1.1.7	54.5	Other fresh or chilled vegetables
2.1.1.7	54.6	Vegetables (uncooked or cooked by steaming or boiling in water), frozen
2.1.1.7	54.7	Vegetables provisionally preserved (e.g., by sulphur dioxide gas, in brine, in sulphur water or in other preservative solutions), but unsuitable in that state for immediate consumption
2.1.1.7	54.8	Vegetable products, roots and tubers, chiefly for human food, n.e.s., fresh, dried or chilled
2.1.1.7	56.1	Vegetables, dried (excluding leguminous vegetables), whole, cut, sliced, broken or in powder, but not further prepared
2.1.1.7	56.69	Other vegetables and mixtures of vegetables prepared or preserved otherwise than by vinegar or acetic acid, frozen
2.1.1.7	56.7	Vegetables, prepared or preserved, n.e.s.
2.1.1.8	56.48	Flour, meal and powder of the products of any heading of group 057
2.1.1.8	57	Fruit and nuts (not including oil nuts), fresh or dried
2.1.1.8	58	Fruit, preserved, and fruit preparations (excluding fruit juices)
2.1.1.8	59	Fruit juices (including grape must) and vegetable juices, unfermented and not containing added spirit, whether or not containing added sugar or other sweetening matter
2.1.1.9	263	Cotton
2.1.1.9	264	Jute and other textile bast fibres, n.e.s., raw or processed but not spun; tow and waste of these fibres (including yarn waste and garnetted stock)
2.1.1.9	265	Vegetable textile fibres (other than cotton and jute), raw or processed but not spun; waste of these fibres
2.1.1.10	71	Coffee and coffee substitutes
2.1.1.10	72	Cocoa
2.1.1.10	73	Chocolate and other food preparations containing cocoa, n.e.s.
2.1.1.10	74	Tea and mate
2.1.1.10	75	Spices
2.1.1.10	121	Tobacco, unmanufactured; tobacco refuse
2.1.1.10	122	Tobacco, manufactured (whether or not containing tobacco substitutes)
2.1.2.1.1	81.11	Cereal straw and husks, unprepared, whether or not chopped, ground, pressed or in the form of pellets
2.1.2.2.1	81.12	Lucerne (alfalfa) meal and pellets
2.1.2.2.1	81.13	Swedes, mangolds, fodder roots, hay, clover, sainfoin, forage kale, lupines, vetches and similar forage products, whether or not in the form of pellets
2.1.3.1	246	Wood in chips or particles and wood waste
2.1.3.1	247	Wood in the rough, whether or not stripped of bark or sapwood, or roughly squared
2.1.3.1	248	Wood, simply worked, and railway sleepers of wood
2.1.3.1	634	Veneers, plywood, particle board, and other wood, worked, n.e.s.
2.1.3.1	635	Wood manufactures, n.e.s.

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.1.3.2	245	Fuel wood (excluding wood waste) and wood charcoal
2.1.3.2	633	Cork manufactures
2.1.3.2	231	Natural rubber, balata, gutta-percha, guayule, chicle and similar natural gums, in primary forms (including latex) or in plates, sheets or strip
2.1.3.2	244	Cork, natural, raw and waste (including natural cork in blocks or sheets)
2.1.4.1	34	Fish, fresh (live or dead), chilled or frozen
2.1.4.1	35	Fish, dried, salted or in brine; smoked fish (whether or not cooked before or during the smoking process); flours, meals and pellets of fish, fit for human consumption
2.1.4.1	37.1	Fish, prepared or preserved, n.e.s.; caviar and caviar substitutes prepared from fish eggs.
2.1.4.2	36	Crustaceans, molluscs and aquatic invertebrates, whether in shell or not, fresh (live or dead), chilled, frozen, dried, salted or in brine; crustaceans, in shell, cooked by steaming or boiling in water, whether or not chilled, frozen, dried, salted or in brine; flours, meals and pellets of crustaceans or of aquatic invertebrates, fit for human consumption
2.1.4.2	37.2	Crustaceans, molluscs and other aquatic invertebrates, prepared or preserved, n.e.s.
2.1.4.2	292.97	Seaweeds and other algae
2.1.6.1	1	Live animals other than animals of division 03
2.1.6.2	11	Meat of bovine animals, fresh, chilled or frozen
2.1.6.2	12	Other meat and edible meat offal, fresh, chilled or frozen (except meat and meat offal unfit or unsuitable for human consumption)
2.1.6.2	16	Meat and edible meat offal, salted, in brine, dried or smoked; edible flours and meals of meat or meat offal
2.1.6.2	17	Meat and edible meat offal, prepared or preserved, n.e.s.
2.1.6.3	22	Milk and cream and milk products other than butter or cheese
2.1.6.3	23	Butter and other fats and oils derived from milk
2.1.6.3	24	Cheese and curd
2.1.6.3	25	Eggs, birds', and egg yolks, fresh, dried or otherwise preserved, sweetened or not; egg albumin
2.1.6.3	61.6	Natural honey
2.1.6.4	261	Silk
2.1.6.4	268	Wool and other animal hair (including wool tops)
2.1.6.4	291	Crude animal materials, n.e.s.
2.1.6.4	211	Hides and skins (except furskins), raw
2.1.6.4	212	Furskins, raw (including heads, tails, paws and other pieces or cuttings, suitable for furriers' use), other than hides and skins of group 211
2.1.6.4	411	Animal oils and fats
2.1.6.4	431	Animal or vegetable fats and oils, processed; waxes; inedible mixtures or preparations of animal or vegetable fats or oils, n.e.s.
2.1.6.4	611	Leather
2.1.6.4	612	Manufactures of leather or of composition leather, n.e.s.; saddlery and harness

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.1.6.4	613	Furskins, tanned or dressed (including heads, tails, paws and other pieces or cuttings), unassembled, or assembled (without the addition of other materials), other than those of heading 848.31
2.1.7	81.19	Vegetable residues and by-products, vegetable materials and vegetable waste, whether or not in the form of pellets, of a kind used for animal food, n.e.s.
2.1.7	81.2	Bran, sharps and other residues, whether or not in the form of pellets, derived from the sifting, milling or other working of cereals or of leguminous plants
2.1.7	81.3	Oil-cake and other solid residues (except dregs), whether or not ground or in the form of pellets, resulting from the extraction of fats or oils from oil-seeds, oleaginous fruits and germs of cereals
2.1.7	81.4	Flours, meals and pellets, of meat or meat offal, of fish or of crustaceans, molluscs or other aquatic invertebrates, unfit for human consumption; greaves
2.1.7	81.5	Residues of starch manufacture and similar residues, beet pulp, bagasse and other waste of sugar manufacture, brewing or distilling dregs and waste, whether or not in the form of pellets
2.1.7	81.9	Food wastes and prepared animal feeds, n.e.s.
2.1.7	61.9	Other sugars (including chemically pure lactose, maltose, glucose and fructose in solid form); sugar syrups not containing added flavouring or colouring matter; artificial honey (whether or not mixed with natural honey); caramel
2.1.7	62	Sugar confectionery
2.1.7	91	Margarine and shortening
2.1.7	98	Edible products and preparations, n.e.s.
2.1.7	111	Non-alcoholic beverages, n.e.s.
2.1.7	112	Alcoholic beverages
2.1.7	251	Pulp and waste paper
2.1.7	272.1	Animal or vegetable fertilizers, whether or not mixed together or chemically treated; fertilizers produced by the mixing or chemical treatment of animal or vegetable products
2.1.7	292	Crude vegetable materials, n.e.s.
2.1.7	421	Fixed vegetable fats and oils, "soft", crude, refined or fractionated
2.1.7	422	Fixed vegetable fats and oils, crude, refined or fractionated, other than "soft"
2.1.7	641	Paper and paperboard
2.1.7	642	Paper and paperboard, cut to size or shape, and articles of paper or paperboard
2.2.1	274.2	Iron pyrites, unroasted
2.2.1	281	Iron ore and concentrates
2.2.1	282	Ferrous waste and scrap; remelting scrap ingots of iron or steel
2.2.1	671	Pig-iron, spiegeleisen, sponge iron, iron or steel granules and powders and ferroalloys
2.2.1	672	Ingots and other primary forms, of iron or steel; semi-finished products of iron or steel
2.2.1	673	Flat-rolled products of iron or non-alloy steel, not clad, plated or coated
2.2.1	674	Flat-rolled products of iron or non-alloy steel, clad, plated or coated
2.2.1	675	Flat-rolled products of alloy steel
2.2.1	676	Iron and steel bars, rods, angles, shapes and sections (including sheet piling)

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.2.1	677	Rails or railway track construction material, of iron or steel
2.2.1	678	Wire of iron or steel
2.2.1	679	Tubes, pipes and hollow profiles, and tube or pipe fittings, of iron or steel
2.2.1	693.11	Stranded wire, ropes, cables, plaited bands, slings and the like of iron or steel, not electrically insulated
2.2.1	693.2	Barbed wire of iron or steel; twisted hoop or single flat wire, barbed or not, and loosely twisted double wire, of a kind used for fencing, of iron or steel
2.2.1	693.5	Cloth (including endless bands), grill, netting and fencing, of iron or steel wire; expanded metal of iron or steel
2.2.2.1	283	Copper ores and concentrates; copper mattes; cement copper
2.2.2.1	288.21	Copper waste and scrap
2.2.2.1	682	Copper
2.2.2.1	693.12	Stranded wire, ropes, cables, plaited bands, slings and the like of copper, not electrically insulated
2.2.2.2	284	Nickel ores and concentrates; nickel mattes, nickel oxide sinters and other intermediate products of nickel metallurgy
2.2.2.2	288.22	Nickel waste and scrap
2.2.2.2	683	Nickel
2.2.2.3	287.4	Lead ores and concentrates
2.2.2.3	288.24	Lead waste and scrap
2.2.2.3	685	Lead
2.2.2.4	287.5	Zinc ores and concentrates
2.2.2.4	288.25	Zinc waste and scrap (other than dust)
2.2.2.4	686	Zinc
2.2.2.5	287.6	Tin ores and concentrates
2.2.2.5	288.26	Tin waste and scrap
2.2.2.5	687	Tin
2.2.2.6	289	Ores and concentrates of precious metals; waste, scrap and sweepings of precious metals (other than of gold)
2.2.2.6	681	Silver, platinum and other metals of the platinum group
2.2.2.7	285	Aluminium ores and concentrates (including alumina)
2.2.2.7	288.23	Aluminium waste and scrap
2.2.2.7	684	Aluminium
2.2.2.7	693.13	Stranded wire, ropes, cables, plaited bands, slings and the like of aluminium, not electrically insulated
2.2.2.8	286	Uranium or thorium ores and concentrates
2.2.2.8	525	Radioactive and associated materials
2.2.2.9	287.7	Manganese ores and concentrates (including manganiferous iron ores and concentrates with a manganese content of 20% or more calculated on the dry weight)
2.2.2.9	287.8	Ores and concentrates of molybdenum, niobium, tantalum, titanium, vanadium and zirconium
2.2.2.9	287.9	Ores and concentrates of other non-ferrous base metals

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.2.2.9	288.1	Slag, ash and residues (other than from the manufacture of iron or steel) containing metals, arsenic, or their compounds
2.2.2.9	689	Miscellaneous non-ferrous base metals employed in metallurgy, and cermets
2.2.3	691	Structures and parts of structures, n.e.s., of iron, steel or aluminium
2.2.3	692	Metal containers for storage or transport
2.2.3	694	Nails, screws, nuts, bolts, rivets and the like, of iron, steel, copper or aluminium
2.2.3	695	Tools for use in the hand or in machines
2.2.3	696	Cutlery
2.2.3	697	Household equipment of base metal, n.e.s.
2.2.3	699	Manufactures of base metal, n.e.s.
2.2.3	711	Steam or other vapour-generating boilers, superheated water boilers, and auxiliary plant for use therewith; parts thereof
2.2.3	712	Steam turbines and other vapour turbines and parts thereof, n.e.s.
2.2.3	713	Internal combustion piston engines and parts thereof, n.e.s.
2.2.3	714	Engines and motors, non-electric (other than those of groups 712, 713 and 718); parts, n.e.s., of these engines and motors
2.2.3	716	Rotating electric plant and parts thereof, n.e.s.
2.2.3	718	Power-generating machinery and parts thereof, n.e.s.
2.2.3	721	Agricultural machinery (excluding tractors) and parts thereof
2.2.3	722	Tractors (other than those of headings 744.14 and 744.15)
2.2.3	723	Civil engineering and contractors' plant and equipment; parts thereof
2.2.3	724	Textile and leather machinery and parts thereof, n.e.s.
2.2.3	725	Paper mill and pulp mill machinery, papercutting machines and other machinery for the manufacture of paper articles; parts thereof
2.2.3	726	Printing and bookbinding machinery and parts thereof
2.2.3	727	Food-processing machines (excluding domestic); parts thereof
2.2.3	728	Other machinery and equipment specialized for particular industries; parts thereof, n.e.s.
2.2.3	731	Machine tools working by removing metal or other material
2.2.3	733	Machine tools for working metal, sintered metal carbides or cermets, without removing material
2.2.3	735	Parts, n.e.s., and accessories suitable for use solely or principally with the machines falling within groups 731 and 733 (including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine tools); tool holders for any type of tool for working in the hand
2.2.3	737	Metalworking machinery (other than machine tools) and parts thereof, n.e.s.
2.2.3	741	Heating and cooling equipment and parts thereof, n.e.s.
2.2.3	742	Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; parts for such pumps and liquid elevators
2.2.3	743	Pumps (other than pumps for liquids), air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; centrifuges; filtering or purifying apparatus; parts thereof
2.2.3	744	Mechanical handling equipment and parts thereof, n.e.s.

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.2.3	745	Non-electrical machinery, tools and mechanical apparatus and parts thereof, n.e.s.
2.2.3	746	Ball- or roller bearings
2.2.3	747	Taps, cocks, valves and similar appliances for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves
2.2.3	748	Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings and plain shaft bearings; gears and gearing; ball or roller screws; gearboxes and other speed changers (including torque converters); flywheels and pulleys (including pulley blocks); clutches and shaft couplings (including universal joints); articulated link chain; parts thereof
2.2.3	749	Non-electric parts and accessories of machinery, n.e.s.
2.2.3	751	Office machines
2.2.3	752	Automatic data-processing machines and units thereof; magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, n.e.s.
2.2.3	759	Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines falling within groups 751 and 752
2.2.3	761	Monitors and projectors, not incorporating television reception apparatus; reception apparatus for television, whether or not incorporating radio-broadcast receivers or sound or video recording or reproducing apparatus
2.2.3	762	Reception apparatus for radiobroadcasting, whether or not combined, in the same housing, with sound recording or reproducing apparatus or a clock
2.2.3	763	Sound recording or reproducing apparatus; video recording or reproducing apparatus; whether or not incorporating a video tuner
2.2.3	764	Telecommunications equipment, n.e.s., and parts, n.e.s., and accessories of apparatus falling within division 76
2.2.3	771	Electric power machinery (other than rotating electric plant of group 716) and parts thereof
2.2.3	772	Electrical apparatus for switching or protecting electrical circuits or for making connections to or in electrical circuits (e.g., switches, relays, fuses, lightning arresters, voltage limiters, surge suppressors, plugs and sockets, lampholders and junction boxes); electrical resistors (including rheostats and potentiometers), other than heating resistors; printed circuits; boards, panels (including numerical control panels), consoles, desks, cabinets and other bases, equipped with two or more apparatus for switching, protecting or for making connections to or in electrical circuits, for electric control or the distribution of electricity (excluding switching apparatus of subgroup 764.1)
2.2.3	773	Equipment for distributing electricity, n.e.s.
2.2.3	774	Electrodiagnostic apparatus for medical, surgical, dental or veterinary purposes, and radiological apparatus
2.2.3	775	Household-type electrical and nonelectrical equipment, n.e.s.

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.2.3	776	Thermionic, cold cathode or photo-cathode valves and tubes (e.g., vacuum or vapour or gas-filled valves and tubes, mercury arc rectifying valves and tubes, cathode-ray tubes, television camera tubes); diodes, transistors and similar semiconductor devices; photosensitive semiconductor devices; light-emitting diodes; mounted piezoelectric crystals; electronic integrated circuits and microassemblies; parts thereof
2.2.3	778	Electrical machinery and apparatus, n.e.s.
2.2.3	781	Motor cars and other motor vehicles principally designed for the transport of persons (other than motor vehicles for the transport of ten or more persons, including the driver), including station-wagons and racing cars
2.2.3	782	Motor vehicles for the transport of goods and special-purpose motor vehicles
2.2.3	783	Road motor vehicles, n.e.s.
2.2.3	784	Parts and accessories of the motor vehicles of groups 722, 781, 782 and 783
2.2.3	785	Motor cycles (including mopeds) and cycles, motorized and non-motorized; invalid carriages
2.2.3	786	Trailers and semi-trailers; other vehicles, not mechanically-propelled; specially designed and equipped transport containers
2.2.3	791	Railway vehicles (including hovertrains) and associated equipment
2.2.3	792	Aircraft and associated equipment; spacecraft (including satellites) and spacecraft launch vehicles; parts thereof
2.2.3	793	Ships, boats (including hovercraft) and floating structures
2.2.3	961	Coin (other than gold coin), not being legal tender
2.2.3	971	Gold, non-monetary (excluding gold ores and concentrates)
2.3.1.1	273.12	Marble, travertine, ecaussine and other calcareous monumental or building stone of an apparent specific gravity of 2.5 or more, and alabaster, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape.
2.3.1.1	273.13	Granite, porphyry, basalt, sandstone and other monumental or building stone, n.e.s., whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape.
2.3.1.1	661.3	Monumental or building stone, worked, and articles thereof
2.3.1.2	278.23	Dolomite, whether or not calcined; dolomite roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape; agglomerated dolomite (including tarred dolomite)
2.3.1.2	278.91	Chalk
2.3.1.3	273.11	Slate, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape
2.3.1.4	272.3	Natural calcium phosphates, natural aluminium calcium phosphates and phosphatic chalk.
2.3.1.4	562.39	Mineral or chemical fertilizers, potassic, n.e.s.
2.3.1.4	274.1	Sulphur of all kinds, other than sublimed sulphur, precipitated sulphur and colloidal sulphur
2.3.1.4	278.54	Fluorspar

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.3.1.4	278.92	Natural barium sulphate (barytes); natural barium carbonate (witherite), whether or not calcined (other than barium oxide of heading 522.65)
2.3.1.4	278.94	Natural borates and concentrates thereof, whether or not calcined, but not including borates separated from natural brine; natural boric acid containing not more than 85% of h3bo3 calculated on the dry weight
2.3.1.4	278.99	Mineral substances, n.e.s.
2.3.1.4	562	Fertilizers (other than those of group 272)
2.3.1.5	278.3	Sodium chloride, pure, and common salt (including table salt and denatured salt), whether or not in aqueous solution or containing added anti-caking or free-flowing agents; sea water.
2.3.1.6	272.2	Sodium nitrate
2.3.1.6	278.97	Bitumen and asphalt, natural; asphaltites and asphaltic rocks
2.3.1.6	277.1	Industrial diamonds, sorted, whether or not worked
2.3.1.6	277.2	Natural abrasives, n.e.s.
2.3.1.6	278.22	Graphite, natural
2.3.1.6	278.24	Natural magnesium carbonate (magnesite)
2.3.1.6	278.25	Fused magnesia; dead-burned (sintered) magnesia; other magnesium oxide, whether or not pure
2.3.1.6	278.4	Asbestos
2.3.1.6	278.51	Quartz (other than natural sands); quartzite, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape
2.3.1.6	278.52	Mica (including splittings); mica waste
2.3.1.6	278.53	Feldspar; leucite; nepheline and nepheline syenite
2.3.1.6	278.61	Granulated slag (slag sand) from the manufacture of iron or steel
2.3.1.6	278.62	Slag, dross (other than granulated slag), scalings and other waste from the manufacture of iron or steel
2.3.1.6	278.69	Other slag and ash, including seaweed ash (kelp); ash and residues from the incineration of municipal waste
2.3.1.6	278.93	Steatite, natural, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape; talc
2.3.1.6	278.95	Siliceous fossil meals (e.g., kieselguhr, tripolite and diatomite) and similar siliceous earths, whether or not calcined, of an apparent specific gravity of 1 or less
2.3.1.6	278.98	Vermiculite, perlite and chlorites, unexpanded
2.3.1.6	667.1	Pearls (natural or cultured), whether or not worked or graded but not strung, mounted or set; ungraded pearls (natural or cultured), temporarily strung for convenience of transport
2.3.1.6	667.2	Diamonds (other than sorted industrial diamonds), whether or not worked, but not mounted or set
2.3.1.6	667.3	Precious stones (other than diamonds) and semiprecious stones, whether or not worked or graded but not strung, mounted or set; ungraded precious stones (other than diamonds) and semiprecious stones, temporarily strung for convenience of transport

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.3.1.6	667.4	Synthetic or reconstructed precious or semiprecious stones, whether or not worked or graded but not strung, mounted or set; ungraded synthetic or reconstructed precious or semiprecious stones, temporarily strung for convenience of transport
2.3.2.1	273.2	Gypsum, plasters, limestone flux, limestone and other calcareous stone of a kind used for the manufacture of lime or cement
2.3.2.2	273.3	Natural sands of all kinds, whether or not coloured (other than metal-bearing sands of division 28).
2.3.2.2	273.4	Pebbles, grave l, broken or crushed stone, of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated; macadam of slag, dross or similar industrial waste, whether or not incorporating materials cited in the first part of the heading; tarred macadam; granules, chippings and powder, of stones of heading 273.12 or 273.13, whether or not heattreated
2.3.2.3	278.26	Kaolin and other kaolinic clays, whether or not calcined
2.3.2.3	278.27	Bentonite, whether or not calcined
2.3.2.3	278.29	Other clays (not including expanded clays of subgroup 663.5); andalusite, kyanite and sillimanite, whether or not calcined; mullite; chamotte or dinas earths
2.3.2.3	662	Clay construction materials and refractory construction materials
2.3.3	663	Mineral manufactures, n.e.s.
2.3.3	664	Glass
2.3.3	665	Glassware
2.3.3	666	Pottery
2.3.3	661.1	Quicklime, slaked lime and hydraulic lime (other than calcium oxide and hydroxide of subgroup 522.6)
2.3.3	661.2	Portland cement, aluminous cement, slag cement, supersulphate cement and similar hydraulic cements, whether or not coloured or in the form of clinkers.
2.3.3	661.8	Construction materials of asbestos-cement and fibre-cement and of unfired non-metallic minerals, n.e.s.
2.4.1.1	322.2	Lignite, whether or not pulverized (excluding jet)
2.4.1.2	321	Coal, whether or not pulverized, but not agglomerated
2.4.1.2	322.1	Briquettes, ovoids and similar solid fuels manufactured from coal
2.4.1.3	278.96	Bituminous or oil shale and tar sands
2.4.1.4	322.3	Peat (including peat litter), whether or not agglomerated
2.4.2.1.1	333	Petroleum oils and oils obtained from bituminous minerals, crude
2.4.2.1.1	334	Petroleum oils and oils obtained from bituminous minerals (other than crude); preparations, n.e.s., containing by weight 70% or more of petroleum oils or of oils obtained from bituminous minerals, these oils being the basic constituents of the preparations; waste oils
2.4.2.1.1	335	Residual petroleum products, n.e.s., and related materials
2.4.2.1.2	343.1	Natural gas, liquefied
2.4.2.2	343.2	Natural gas, in the gaseous state
2.4.2.2	344	Petroleum gases and other gaseous hydrocarbons, n.e.s.

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.4.2.2	345	Coal gas, water gas, producer gas and similar gases, other than petroleum gases and other gaseous hydrocarbons
2.4.2.2	342	Liquefied propane and butane
2.4.3	232	Synthetic rubber; reclaimed rubber; waste, parings and scrap of unhardened rubber
2.4.3	266	Synthetic fibres suitable for spinning
2.4.3	267	Other man-made fibres suitable for spinning; waste of man-made fibres
2.4.3	325	Coke and semi-coke (including char) of coal, of lignite or of peat, whether or not agglomerated; retort carbon
2.4.3	511	Hydrocarbons, n.e.s., and their halogenated, sulphonated, nitrated or nitrosated derivatives
2.4.3	512	Alcohols, phenols, phenol-alcohols, and their halogenated, sulphonated, nitrated or nitrosated derivatives
2.4.3	513	Carboxylic acids and their anhydrides, halides, peroxides and peroxyacids; their halogenated, sulphonated, nitrated or nitrosated derivatives
2.4.3	514	Nitrogen-function compounds
2.4.3	515	Organo-inorganic compounds, heterocyclic compounds, nucleic acids and their salts, and sulphonamides
2.4.3	516	Other organic chemicals
2.4.3	571	Polymers of ethylene, in primary forms
2.4.3	572	Polymers of styrene, in primary forms
2.4.3	573	Polymers of vinyl chloride or of other halogenated olefins, in primary forms
2.4.3	574	Polyacetals, other polyethers and epoxide resins, in primary forms; polycarbonates, alkyd resins, polyallyl esters and other polyesters, in primary forms
2.4.3	575	Other plastics, in primary forms
2.4.3	579	Waste, parings and scrap, of plastics
2.4.3	581	Tubes, pipes and hoses, and fittings therefor, of plastics
2.4.3	582	Plates, sheets, film, foil and strip, of plastics
2.4.3	583	Monofilament of which any cross-sectional dimension exceeds 1 mm, rods, sticks and profile shapes, whether or not surfaceworked but not otherwise worked, of plastics
2.4.3	621	Materials of rubber (e.g., pastes, plates, sheets, rods, thread, tubes, of rubber)
2.4.3	625	Rubber tyres, interchangeable tyre treads, tyre flaps and inner tubes for wheels of all kinds
2.4.3	629	Articles of rubber, n.e.s.
2.5	269	Worn clothing and other worn textile articles; rags
2.5	522	Inorganic chemical elements, oxides and halogen salts
2.5	523	Salts and peroxy salts, of inorganic acids and metals
2.5	524	Other inorganic chemicals; organic and inorganic compounds of precious metals
2.5	531	Synthetic organic colouring matter and colour lakes, and preparations based thereon
2.5	532	Dyeing and tanning extracts, and synthetic tanning materials
2.5	533	Pigments, paints, varnishes and related materials
2.5	541	Medicinal and pharmaceutical products, other than medicaments of group 542

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.5	542	Medicaments (including veterinary medicaments)
2.5	551	Essential oils, perfume and flavour materials
2.5	553	Perfumery, cosmetic or toilet preparations (excluding soaps)
2.5	554	Soap, cleansing and polishing preparations
2.5	591	Insecticides, rodenticides, fungicides, herbicides, anti-sprouting products and plant-growth regulators, disinfectants and similar products, put up in forms or packings for retail sale or as preparations or articles (e.g., sulphur-treated bands, wicks and candles, and fly-papers)
2.5	592	Starches, inulin and wheat gluten; albuminoidal substances; glues
2.5	593	Explosives and pyrotechnic products
2.5	597	Prepared additives for mineral oils and the like; prepared liquids for hydraulic transmission; anti-freezing preparations and prepared de-icing fluids; lubricating preparations
2.5	598	Miscellaneous chemical products, n.e.s.
2.5	651	Textile yarn
2.5	652	Cotton fabrics, woven (not including narrow or special fabrics)
2.5	653	Fabrics, woven, of man-made textile materials (not including narrow or special fabrics)
2.5	654	Other textile fabrics, woven
2.5	655	Knitted or crocheted fabrics (including tubular knit fabrics, n.e.s., pile fabrics and openwork fabrics), n.e.s.
2.5	656	Tulles, lace, embroidery, ribbons, trimmings and other smallwares
2.5	657	Special yarns, special textile fabrics and related products
2.5	658	Made-up articles, wholly or chiefly of textile materials, n.e.s.
2.5	659	Floor coverings, <i>etc.</i>
2.5	811	Prefabricated buildings
2.5	812	Sanitary, plumbing and heating fixtures and fittings, n.e.s.
2.5	813	Lighting fixtures and fittings, n.e.s.
2.5	821	Furniture and parts thereof; bedding, mattresses, mattress supports, cushions and similar stuffed furnishings
2.5	831	Trunks, suitcases, vanity cases, executive cases, briefcases, school satches, spectacle cases, binocular cases, camera cases, musical instrument cases, gun cases, holsters and similar containers; travelling bags, insulated food or beverages bags, toilet bags, rucksacks, handbags, shopping bags, wallets, purses, map cases, cigarette cases, tobacco pouches, tool bags, sports bags, bottle cases, jewellery boxes, powder boxes, cutlery cases and similar containers, of leather or of composition leather, of sheeting of plastics, of textile materials, of vulcanized fibre or of paperboard, or wholly or mainly covered with such materials or with paper; travel sets for personal toilet, sewing or shoe or clothes cleaning
2.5	841	Men's or boys' coats, capes, jackets, suits, blazers, trousers, shorts, shirts, underwear, nightwear and similar articles of textile fabrics, not knitted or crocheted (other than those of subgroup 845.2)

Table S2. *Cont.*

EW-MFA Code	SITC	Name
2.5	842	Women's or girls' coats, capes, jackets, suits, trousers, shorts, shirts, dresses and skirts, underwear, nightwear and similar articles of textile fabrics, not knitted or crocheted (other than those of subgroup 845.2)
2.5	843	Men's or boys' coats, capes, jackets, suits, blazers, trousers, shorts, shirts, underwear, nightwear and similar articles of textile fabrics, knitted or crocheted (other than those of subgroup 845.2)
2.5	844	Women's or girls' coats, capes, jackets, suits, trousers, shorts, shirts, dresses and skirts, underwear, nightwear and similar articles of textile fabrics, knitted or crocheted (other than those of subgroup 845.2)
2.5	845	Articles of apparel, of textile fabrics, whether or not knitted or crocheted, n.e.s.
2.5	846	Clothing accessories, of textile fabrics, whether or not knitted or crocheted (other than those for babies)
2.5	848	Articles of apparel and clothing accessories of other than textile fabrics; headgear of all materials
2.5	851	Footwear
2.5	871	Optical instruments and apparatus, n.e.s.
2.5	872	Instruments and appliances, n.e.s., for medical, surgical, dental or veterinary purposes
2.5	873	Meters and counters, n.e.s.
2.5	874	Measuring, checking, analyzing and controlling instruments and apparatus, n.e.s.
2.5	881	Photographic apparatus and equipment, n.e.s.
2.5	882	Photographic and cinematographic supplies
2.5	883	Cinematographic film, exposed and developed, whether or not incorporating soundtrack or consisting only of soundtrack
2.5	884	Optical goods, n.e.s.
2.5	885	Watches and clocks
2.5	891	Arms and ammunition
2.5	892	Printed matter
2.5	893	Articles, n.e.s., of plastics
2.5	894	Baby carriages, toys, games and sporting goods
2.5	895	Office and stationery supplies, n.e.s.
2.5	896	Works of art, collectors' pieces and antiques
2.5	897	Jewellery, goldsmiths' and silversmiths' wares, and other articles of precious or semiprecious materials, n.e.s.
2.5	898	Musical instruments and parts and accessories thereof; records, tapes and other sound or similar recordings (excluding goods of groups 763 and 883)
2.5	899	Miscellaneous manufactured articles, n.e.s.
2.6	599	Residual products of the chemical or allied industries, n.e.s.; municipal waste; sewage sludge; other wastes

**Table S3.** 2000–2009 imports weight (million t).

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	2403.8	2938.8	2458.1	3442.1	4488.6	4885.3	5232.8	5238.3	5711.8	7095.2
2	217.9	265.7	1125.8	1102.6	1904.5	2622.6	3823.4	5162.3	4365.6	13190.8
3	9502.8	8890.8	10010.1	13051.5	17200.7	16929.4	19300.9	21054.6	22930.6	25940.0
4	7788.8	10281.2	12381.8	16448.5	22846.3	30115.8	36585.9	45219.1	51416.2	70256.4
5	1794.7	739.5	2529.0	2332.1	2800.5	3515.0	3241.2	3471.8	2944.2	2908.0
6	500.5	411.3	533.8	753.5	956.9	967.9	1057.1	1189.9	1234.0	1472.0
7	268.3	242.1	263.5	286.7	309.6	341.0	354.1	229.7	218.3	231.4
8	137.2	130.4	149.8	157.4	173.7	173.7	210.8	210.7	195.4	162.4
9	215.3	181.4	198.3	247.0	216.7	264.0	243.8	132.2	481.5	672.1
10	1350.0	1730.1	1885.5	2213.8	2609.6	3018.6	3227.5	3533.6	3755.6	4475.1
11	3016.4	3541.4	4128.6	4705.0	5275.2	5513.7	5603.4	6148.8	5954.2	7770.7
12	293.4	444.2	370.3	438.3	499.6	794.7	904.8	871.5	524.0	526.2
13	165.3	305.8	266.2	283.2	297.9	245.6	243.4	90.5	87.2	138.2
14	3190.6	4295.2	4601.6	6274.5	5539.1	4851.4	3512.9	3336.0	3147.1	5612.1
15	95.1	84.6	88.1	103.4	97.1	163.5	173.3	99.0	103.6	143.3
16	143.9	132.3	227.7	248.0	351.7	412.2	465.7	138.3	172.3	225.0
17	24.2	53.6	80.9	128.4	128.7	184.1	241.4	89.2	115.4	225.4
18	40.3	37.9	40.6	67.6	47.2	177.5	200.8	41.1	39.4	32.9
19	23.1	27.3	33.6	71.0	46.2	79.1	86.0	36.0	35.0	29.5
20	10.2	8.9	7.8	33.2	21.0	54.3	60.6	13.5	13.5	28.3
21	30.5	28.4	31.3	36.3	42.5	68.5	73.0	46.3	51.5	45.1
22	3.0	2.3	1.8	2.8	5.5	4.9	5.5	9.4	11.2	10.3

**Table S4.** 2000–2009 exports weight (million t).

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	2399.0	2009.5	2788.3	3684.0	2040.7	2810.5	2478.3	3067.8	2244.3	2190.5
2	5506.5	9013.5	8389.7	9395.2	8672.6	7174.7	6329.2	5321.4	4545.7	2240.1
3	2324.4	2144.1	2239.6	2517.0	2118.7	2780.6	2482.3	2696.8	2773.7	3577.4
4	33.6	33.4	36.5	59.8	24.4	23.7	22.0	29.4	21.0	19.8
5	4093.5	5613.2	8041.5	6294.8	6643.2	7179.0	8606.1	8346.1	8009.7	7190.3
6	386.4	393.6	80330.8	67515.4	101855.8	83777.4	68931.5	78933.9	73409.1	81764.9
7	201.1	197.3	220.3	264.2	586.4	748.3	906.0	459.6	690.9	585.7
8	136.4	115.5	67.3	59.4	277.7	487.4	597.5	26.1	15.3	408.5
9	500.8	540.7	635.0	692.9	954.0	1213.8	1513.9	250.0	863.5	642.8
10	181.8	189.3	216.8	291.1	325.3	435.5	612.8	798.9	732.5	703.4
11	1826.9	1725.4	1789.4	2037.0	2200.9	2260.3	2842.0	2991.1	2875.6	1714.3
12	901.1	819.0	1189.4	1347.9	1249.6	1853.9	2148.9	1888.4	2067.5	2117.0
13	1005.6	1136.3	1034.6	1132.8	1262.5	3277.3	4815.3	4284.5	3624.1	2795.1
14	1841.7	1185.5	1151.0	1484.8	2915.6	3695.7	6230.6	7913.9	7015.6	2978.3
15	582.1	625.1	457.6	839.2	1228.9	1557.7	1961.6	1989.2	2070.0	1347.1
16	116.6	113.4	172.2	213.5	278.0	574.3	760.3	336.6	704.6	503.5
17	106.6	260.0	279.8	371.3	517.9	1107.1	1586.3	848.8	1039.3	584.3
18	158.6	168.0	215.4	260.8	310.0	779.8	926.7	445.7	405.2	368.0

**Table S4. Cont.**

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
19	56.8	108.7	117.8	123.8	142.1	385.1	437.8	172.4	267.0	131.3
20	28.4	295.5	76.1	368.4	415.6	541.4	603.9	59.3	68.0	307.4
21	351.4	383.3	466.3	557.2	649.3	900.6	975.0	853.8	833.9	727.3
22	1.0	0.8	0.6	0.3	0.3	0.4	0.4	0.4	0.9	1.1

**Table S5. 2000–2009 physical trade balance (million t).**

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	4.8	929.3	-330.2	-241.9	2447.9	2074.8	2754.6	2170.5	3467.5	4904.8
2	-5288.6	-8747.8	-7263.9	-8292.6	-6768.0	-4552.1	-2505.9	-159.1	-180.1	10950.6
3	7178.5	6746.7	7770.5	10534.5	15082.0	14148.8	16818.6	18357.8	20156.9	22362.6
4	7755.2	10247.8	12345.3	16388.7	22821.9	30092.1	36564.0	45189.7	51395.2	70236.6
5	-2298.8	-4873.7	-5512.5	-3962.7	-3842.7	-3664.0	-5364.9	-4874.4	-5065.5	-4282.3
6	114.1	17.7	-79796.9	-66761.8	-100898.9	-82809.5	-67874.4	-77744.1	-72175.1	-80293.0
7	67.1	44.8	43.2	22.5	-276.8	-407.3	-551.9	-229.9	-472.6	-354.3
8	0.8	14.9	82.5	98.0	-104.0	-313.7	-386.8	184.6	180.2	-246.1
9	-285.5	-359.4	-436.7	-446.0	-737.3	-949.8	-1270.1	-117.8	-381.9	29.3
10	1168.2	1540.9	1668.7	1922.7	2284.3	2583.1	2614.7	2734.8	3023.1	3771.8
11	1189.5	1816.0	2339.3	2668.0	3074.3	3253.3	2761.4	3157.7	3078.5	6056.4
12	-607.6	-374.9	-819.1	-909.7	-750.0	-1059.2	-1244.1	-1016.9	-1543.5	-1590.9
13	-840.3	-830.6	-768.3	-849.7	-964.5	-3031.7	-4571.9	-4194.1	-3536.9	-2656.9
14	1348.9	3109.7	3450.6	4789.8	2623.5	1155.7	-2717.7	-4577.9	-3868.5	2633.8
15	-486.9	-540.5	-369.5	-735.8	-1131.8	-1394.1	-1788.3	-1890.3	-1966.5	-1203.8
16	27.3	19.0	55.5	34.4	73.8	-162.1	-294.6	-198.3	-532.3	-278.5
17	-82.4	-206.4	-198.9	-242.9	-389.2	-923.1	-1344.9	-759.6	-923.9	-359.0
18	-118.3	-130.0	-174.8	-193.2	-262.8	-602.3	-725.9	-404.6	-365.8	-335.1
19	-33.7	-81.4	-84.2	-52.8	-95.9	-306.0	-351.8	-136.5	-232.0	-101.8
20	-18.2	-286.7	-68.3	-335.2	-394.6	-487.0	-543.3	-45.9	-54.5	-279.1
21	-320.9	-354.9	-435.0	-521.0	-606.8	-832.1	-902.0	-807.6	-782.4	-682.2
22	2.0	1.5	1.2	2.4	5.2	4.5	5.1	9.1	10.3	9.3

**Table S6. 2000–2009 imports value (million USD).**

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	9,156,442	9,914,302	9,536,090	14,301,182	20,029,731	20,239,997	2,169,3416	22,765,670	27,376,198	24,279,013
2	69,027	87,746	329,828	349,642	799,741	1,173,160	1,288,431	1,724,031	2,223,204	6,426,918
3	20,470,507	16,930,571	18,332,813	27,212,528	41,654,969	52,690,487	69,062,595	72,019,310	98,413,256	66,400,774
4	4,487,334	5,193,958	5,415,296	8,989,482	18,825,039	26,651,484	31,663,492	44,706,955	56,887,445	46,283,502
5	3,357,784	1,370,027	4,294,372	4,331,182	5,451,944	6,546,281	6,106,607	6,692,259	8,051,900	4,672,846
6	2,675,802	2,261,291	3,175,577	4,540,276	5,901,109	5,328,766	5,679,370	7,848,781	9,408,977	7,905,209
7	12,832,271	12,318,274	12,720,534	13,495,768	13,587,736	13,111,458	12,970,828	11,702,907	9,699,032	8,803,529

Table S6. *Cont.*

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
8	4,228,240	4,209,730	4,443,130	4,828,213	5,249,115	5,224,431	5,686,778	5,658,458	4,964,415	3,839,491
9	3,903,340	3,645,336	4,338,115	4,924,354	5,235,018	5,374,293	5,747,870	6,368,170	5,489,430	5,015,247
10	6,961,638	6,620,836	7,182,118	8,191,481	9,149,920	9,305,633	9,430,279	10,213,552	10,387,578	9,171,429
11	24,399,269	25,337,249	29,529,572	37,435,237	48,584,179	54,409,303	56,835,981	62,060,388	55,610,608	53,149,193
12	6,812,095	7,234,866	9,223,515	11,310,307	11,934,717	13,394,967	15,471,113	16,678,385	18,236,004	16,461,595
13	1,495,377	1,575,107	1,778,095	2,107,145	2,426,372	2,398,895	2,650,315	2,647,472	2,459,275	2,151,302
14	17,888,302	18,853,606	22,474,112	33,037,584	37,209,919	41,021,317	38,950,193	44,729,069	38,422,036	42,866,144
15	7,405,244	7,443,039	8,925,012	11,403,741	14,139,977	15,258,826	16,387,121	17,355,846	17,921,672	16,795,399
16	21,444,682	25,402,988	31,810,186	41,660,528	51,430,430	47,455,792	50,267,497	50,496,112	49,027,886	41,449,812
17	6,349,068	9,785,868	11,185,382	16,585,417	17,227,229	16,723,283	23,507,035	24,562,066	23,584,436	25,212,544
18	35,756,736	39,258,894	54,086,291	75,942,435	98,514,536	116,608,478	138,766,206	147,300,738	129,347,110	117,640,787
19	23,271,242	25,426,847	30,432,304	41,515,499	48,173,139	55,102,793	60,442,459	57,088,269	49,891,052	45,432,245
20	7,699,725	9,558,670	13,435,258	24,203,115	36,098,352	42,192,314	46,652,882	50,377,953	47,735,826	40,418,082
21	2,639,347	2,717,632	3,284,679	4,194,778	5,264,508	6,127,711	6,599,387	7,497,951	6,711,051	6,113,865
22	6718	4634	4381	5249	8596	7603	8181	14,711	16,500	14,290

**Table S7.** 2000–2009 exports value (million USD).

<b>ID</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
1	13,357,695	13,056,341	14,638,158	17,073,750	16,909,372	19,164,688	20,227,179	21,211,496	18,804,015	17,867,391
2	1,461,213	2,613,957	2,470,680	2,617,796	3,391,756	3,623,771	2,920,553	2,320,075	3,122,957	1,400,099
3	4,887,485	4,069,229	4,209,056	5,693,260	5,411,173	8,683,005	8,999,659	9,605,442	11,707,349	9,851,206
4	385,983	555,527	771,908	950,337	1,421,218	2,044,311	2,333,495	2,445,919	2,178,964	1,290,421
5	3,009,601	3,385,935	3,819,688	4,959,557	6,215,098	6,973,187	8,000,050	9,833,093	1,049,0300	8,047,137
6	28,799	31,147	5,082,003	3,669,676	5,831,349	4,438,595	4,718,520	5,073,089	5,420,938	5,525,997
7	16,134,643	16,484,127	20,027,861	25,534,804	29,678,671	34,718,385	38,602,631	39,396,248	38,922,410	35,240,535
8	46,778,777	47,098,425	52,461,280	63,389,379	70,483,110	80,986,133	95,278,552	100,725,053	90,280,323	80,388,698
9	6,691,905	7,225,245	9,271,770	11,877,126	15,667,713	19,449,649	23,380,795	25,847,054	24,526,242	22,242,445
10	1,852,055	1,940,241	2,277,433	2,875,177	3,371,105	4,324,347	5,467,422	6,485,292	6,187,260	5,902,577
11	6,676,581	7,006,010	8,344,155	11,095,238	16,077,694	19,841,415	24,316,690	29,071,954	32,424,806	23,536,957
12	7,365,274	7,953,126	8,893,935	10,561,650	12,852,157	16,104,804	17,493,071	20,093,165	22,685,667	17,998,387
13	3,095,750	2,879,155	3,554,979	4,244,638	5,260,653	6,717,234	7,971,790	8,115,469	8,203,628	7,281,479
14	7,956,065	6,470,762	6,988,999	9,726,647	20,564,018	25,579,293	40,062,519	49,762,866	54,435,117	21,055,435
15	11,389,528	12,067,381	14,791,013	17,952,315	23,193,276	28,900,222	35,556,561	41,572,822	43,703,323	35,352,476
16	8,516,282	10,041,891	12,633,369	17,572,598	23,804,692	30,180,150	38,278,189	47,738,922	54,115,033	42,354,610
17	8,918,131	8,852,916	9,876,541	14,291,361	18,114,176	23,396,991	29,761,090	37,881,220	41,179,568	34,759,611
18	26,197,243	27,041,923	34,028,338	43,843,286	56,994,996	68,704,079	86,173,889	96,657,302	97,716,448	84,686,192
19	38,146,167	46,371,616	66,471,829	10,208,0237	138,146,068	173,845,888	204,674,844	219,487,924	201,729,974	180,327,466
20	21,840,812	20,812,843	24,814,094	30,366,322	36,592,070	45,026,613	49,881,212	57,220,997	57,907,749	49,355,003
21	10,984,058	10,923,531	12,555,741	14,603,240	17,526,922	20,404,752	22,526,275	25,891,138	25,255,981	22,429,828
22	10,117	7545	5359	3865	4045	3499	3153	3202	4292	4430

**Table S8.** 2000–2009 opposite trade balance (million USD).

ID	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1	-4,201,253	-3,142,039	-5,102,069	-2,772,568	3,120,359	1,075,309	1,466,237	1,554,173	8,572,182	6,411,623
2	-1,392,185	-2,526,211	-2,140,851	-2,268,154	-2,592,015	-2,450,611	-1,632,123	-596,044	-899,753	5,026,819
3	15,583,022	12,861,342	14,123,758	21,519,268	36,243,797	44,007,483	60,062,936	62,413,869	86,705,907	56,549,568
4	4,101,351	4,638,431	4,643,389	8,039,146	17,403,821	24,607,173	29,329,998	42,261,036	54,708,481	44,993,080
5	348,183	-2,015,908	474,684	-628,375	-763,154	-426,906	-1,893,443	-3,140,834	-2,438,400	-3,374,290
6	2,647,003	2,230,145	-1,906,426	870,600	69,760	890,171	960,850	2,775,692	3,988,039	2,379,212
7	-3,302,372	-4,165,852	-7,307,327	-12,039,036	-16,090,934	-21,606,927	-25,631,804	-27,693,341	-29,223,377	-26,437,007
8	-42,550,537	-42,888,695	-48,018,149	-58,561,166	-65,233,995	-75,761,702	-89,591,774	-95,066,595	-85,315,908	-76,549,206
9	-2,788,565	-3,579,910	-4,933,655	-6,952,772	-10,432,695	-14,075,357	-17,632,924	-19,478,883	-19,036,812	-17,227,197
10	5,109,583	4,680,595	4,904,685	5,316,304	5,778,815	4,981,286	3,962,857	3,728,260	4,200,318	3,268,852
11	17,722,688	18,331,239	21,185,416	26,339,999	32,506,485	34,567,888	32,519,291	32,988,434	23,185,801	29,612,236
12	-553,179	-718,261	329,580	748,657	-917,440	-2,709,837	-2,021,957	-3,414,779	-4,449,664	-1,536,792
13	-1,600,372	-1,304,048	-1,776,884	-2,137,492	-2,834,281	-4,318,339	-5,321,475	-5,467,997	-5,744,354	-5,130,177
14	9,932,237	12,382,844	15,485,113	23,310,938	16,645,901	15,442,024	-1,112,326	-5,033,797	-16,013,082	21,810,709
15	-3,984,284	-4,624,342	-5,866,001	-6,548,574	-9,053,300	-13,641,395	-19,169,440	-24,216,976	-25,781,651	-18,557,077
16	12,928,400	15,361,097	19,176,817	24,087,930	27,625,738	17,275,642	11,989,308	2,757,190	-5,087,147	-904,798
17	-2,569,063	932,952	1,308,842	2,294,056	-886,947	-6,673,708	-6,254,055	-13,319,154	-17,595,133	-9,547,067
18	9,559,493	12,216,971	20,057,953	32,099,149	41,519,540	47,904,398	52,592,317	50,643,436	31,630,663	32,954,595
19	-14,874,925	-20,944,769	-36,039,525	-60,564,738	-89,972,929	-118,743,095	-144,232,385	-162,399,656	-151,838,922	-134,895,222
20	-14,141,087	-11,254,173	-11,378,836	-6,163,207	-493,719	-2,834,299	-3,228,330	-6,843,044	-10,171,923	-8,936,920
21	-8,344,711	-8,205,898	-9,271,062	-10,408,461	-12,262,415	-14,277,041	-15,926,888	-18,393,187	-18,544,930	-16,315,963
22	-3399	-2911	-978	1384	4551	4104	5028	11,509	12,208	9860