

Japan

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1. Introduction

Input-Output Tables for Japan have been compiled almost every five years by a joint project of 10 governmental agencies under the coordination of Ministry of Internal Affairs and Communications. The latest ones are the 2011 I-O Tables published in 2015. They are commodity-by-commodity tables and include 518-row and 397-column sectors. Transactions are valued at both producer's prices and purchaser's prices and various supplementary tables such as tables on import, trade margin and domestic freight are available. These I-O tables are compliant with 1993 SNA.

Basically, a transactions table of domestic products is obtained by extracting a transaction table on import from a transaction table at producers' prices. But data processing is necessary to get I-O tables for the GTAP data base, e.g. on adjusting negative values and consumption taxes. Data processing for removing negative values and subtracting consumption taxes is applied before aggregating data on the basis of commodity concordance.

2. Commodity Concordance

Table A1 shows the commodity concordance between the sectorial classification of Japan's I-O table and the GTAP sectorial classification (GSC2). Compared to the GTAP classification, the Japan's I-O table has very detailed classification on manufacturing and service sectors, but not so detailed for agriculture and mining products. This reflects the characteristics of the Japanese economic structure.

While several sectors are disaggregated to meet GTAP classification in the output table (row code), they are aggregated in the input table (column code), e.g. crude petroleum and natural gas. In that case, we divide the input data by the ratio of their domestic productions in the output table. Table 1 shows these division ratios.

The final demand matrix includes (1) consumption expenditure outside households, (2) household consumption expenditure, (3) general government consumption expenditure, (4) public gross domestic fixed capital formation, (5) private gross domestic fixed capital formation, (6) increase in stocks, and (7) exports. As (1) consumption expenditure outside households includes corporate social expenses etc., we move it to the endogenous sectors (54. Business services n.e.c). We add (4) to (5) to create a vector of investment usage.

Table 1. Division ratio of input
Column code (Japanese I-O)

Column code (Japanese I-O)	GTAP classification	Division Ratio
11102 Wheat, barley and the like	2 Wheat	0.75716623
	3 Cereal grains n.e.c.	0.24283377
11509 Other edible crops	3 Cereal grains n.e.c.	0.97079866
	5 Oil seeds	0.02920134
11609 Other inedible crops	7 Plant-based fibers	0.00000000
	8 Crops nec	1.00000000
62101 Coal mining, crude petroleum and natural gas	15 Coal	0.06329095
	16 Oil	0.22788416
	17 Gas	0.708824896
111704 Animal oil and fats, vegetable oil and meal	20 Meat products nec	0.04787985
	21 Vegetable oils and fats	0.952120150

The value-added matrix includes (1) consumption expenditure outside households, (2) compensation of employees, (3) operating surplus, (4) depreciation of fixed capital, (5) Indirect taxes, and (6) (less) current subsidies. As explained before, we move (1) to the endogenous sectors. We add (4) to (3) to obtain a vector of capital employment. (6) Subsidies are subtracted from (5) to get a vector of net non-commodity indirect taxes.

3. *Adjustment of Negative Values*

In the original I-O tables for Japan, there are some negative values in the intermediate usage, household consumption and investment usage. This is mainly due to the scrap and by-products which are recorded as negative values on the basis of Negative Input Method or the Stone Method. To remove negative values, we adopt the Transfer Method or the Stone Method. To remove negative values, we adopt the Transfer Method for intermediate usage, that is, to transpose their row number and column one and in turn to change their signs, which does not affect the matrix balance. As to household consumption and investment usage, we move such negative items to “change in stocks”. In addition, there are several negative values in the general government consumption. Several government consumption items calculated by cost-add method become negative on disaggregated level as the government sector does not have operating surplus by definition. However, the capital employment of the government sector is not zero, because it includes both operating surplus and capital depreciation.

Thus, we change negative items of the government consumption into zero and adjust the capital employment.

4. *Estimation of Commodity Taxes*

In relation to commodity taxes, there is the General Consumption Tax (GCT) in Japan. GCT is a non-cumulative multi-indirect tax imposed on each and every process of transactions. In addition, GCT imposed on purchase is deducted in order that GCT may not be accumulated in the intermediate transaction stages.

The Japan's I-O tables record transactions in gross value, that is, including GCT even in such tax deducted transactions as intermediate usage. However, it is suitable to estimate net values of tax deductible for the GTAP pre-commodity-tax table and commodity tax table. Thus we have to estimate GCT values and separate them from the original transaction table to make the pre-commodity-tax table. Then we compile the commodity tax table by estimating net values of tax deductible.

We estimated them by applying the base GCT rate, which is 5% from 1997, to gross values of the original I-O table except tax-exempt goods and services. Tax exempt goods and services are dwellings, education, health, financial services (excluding financial fees) and the like. The commodity tax table is net values of tax deductible, where most intermediate usage net taxes are zero and GCT is mainly imposed on consumption expenditures. In addition, as the original indirect tax data include net GCT payments, we subtract them from the indirect taxes to get the non-commodity indirect tax (net).

5. Information Not Available from Japan's I-O Tables

There is no available information from the Japan's I-O tables for employment of land. Zero values are assigned to this array.

6. Caveat

I-O data in base year 2011 may be affected by East Japan Great Earth Quake. It should be noted in using this I-O table.

References

Director-General for Policy Planning (Statistical Standards), the Ministry of Internal Affairs and Communications (2015). "2011 Input-Output Tables for Japan".

Table A1. Concordance Table between Japanese I-O table and the GTAP Classification (GSC2)

Japanese I-O Tables Basic Classification		GTAP Classification	
111011	Rice	1	Paddy rice
111012	Rice straw	1	
111021	Wheat (domestic)	2	Wheat
111022	Wheat (imported)	2	
111023	Barley (domestic)	3	Cereal grains nec
111024	Barley (imported)	3	
112011	Sweet potatoes	4	Vegetables, fruit, nuts
112012	Potatoes	4	
112021	Soybeans (domestic)	5	Oil seeds
112022	Soybeans (imported)	5	
112029	Miscellaneous pulses	5	
113001	Vegetables	4	Vegetables, fruit, nuts
114011	Citrus fruits	4	
114012	Apples	4	
114019	Miscellaneous fruits	4	
115011	Sugar crops	6	Sugar cane, sugar beet
115021	Green coffee and cocoa beans (imported)	8	Crops nec
115029	Miscellaneous crops for beverages	8	
115091	Miscellaneous cereals	3	Cereal grains nec
115092	Oil seeds	5	Oil seeds
115099	Edible crops, n.e.c.	3	Cereal grains nec
116011	Feed and forage crops	8	Crops nec
116021	Seeds and seedlings	8	
116031	Flowers and plants	8	
116091	Leaf tobacco	8	
116092	Raw rubber (imported)	8	
116093	Raw cotton (imported)	7	Plant-based fibers
116099	Inedible crops, n.e.c.	8	Crops nec
121011	Raw milk	11	Raw milk
121019	Miscellaneous dairy farming products	11	
121021	Beef cattle	9	Bovine cattle, sheep and goats, horses
121031	Hogs	10	Animal products nec
121041	Hen eggs	10	
121051	Chickens	10	
121091	Sheep and lamp wool	12	Wool, silk-worm cocoons
121099	Livestock, n.e.c.	12	
131011	Veterinary service	8	Crops nec
131021	Agricultural services (except veterinary service)	8	

Japanese I-O Tables Basic Classification			GTAP Classification
151011	Silviculture	13	Forestry
152011	Logs (domestic)	13	
152012	Logs (imported)	13	
153011	Special forest products (including hunting)	13	
171011	Marine fishery (domestic)	14	Fishing
171012	Marine fishery (imported)	14	
171021	Marine aquaculture	14	
172001	Inland water fishery and inland water aquaculture	14	
611011	Iron ores	18	Minerals nec
611012	Non-ferrous metallic ores	18	
621011	Coal mining	15	Coal
621012	Crude petroleum	16	Oil
621013	Natural gas	17	Gas
631011	Gravel and quarrying	18	Minerals nec
631021	Crushed stones	18	
639091	Limestone	18	
639092	Materials for ceramics (except limestone)	18	
639099	Ores, n.e.c.	18	
1111011	Beef	19	Bovine cattle, sheep and goat, horse meat products
1111012	Pork	19	
1111013	Chicken meat	19	
1111014	Miscellaneous meat	19	
1111015	By-products of slaughtering and meat processing	19	
1112011	Processed meat products	20	Meat products nec
1112021	Bottled or canned meat products	20	
1112031	Drinking milk	22	Dairy products
1112032	Dairy products	22	
1113011	Frozen fish and shellfish	25	Food products nec
1113021	Salted, dried or smoked seafood	25	
1113031	Bottled or canned seafood	25	
1113041	Fish paste	25	
1113099	Miscellaneous processed seafood	25	
1114011	Milled rice	23	Processed rice
1114019	Miscellaneous grain milling	23	
1114021	Wheat flour	25	Food products nec
1114029	Miscellaneous grain milled products	25	
1115011	Noodles	25	
1115021	Bread	25	

Japanese I-O Tables Basic Classification			GTAP Classification
1115031	Confectionery	25	
1116011	Bottled or canned vegetables and fruits	25	
1116021	Preserved agricultural foodstuffs (except bottled or canned)	25	
1117011	Refined sugar	24	Sugar
1117019	Miscellaneous sugar and by-products of sugar manufacturing	24	
1117021	Starch	25	Food products nec
1117031	Dextrose, syrup and isomerized sugar	25	
1117041	Vegetable oil	21	Vegetable oils and fats
1117042	Animal oils and fats	20	Meat products nec
1117043	Cooking oil	21	Bovine cattle, sheep and goat, horse meat products
1117044	Vegetable meal	21	
1117051	Condiments and seasonings	25	Food products nec
1119011	Prepared frozen foods	25	
1119021	Retort foods	25	
1119031	Dishes, sushi and lunch boxes	25	
1119041	School lunch (public) **	56	Public administration and defense, education, health
1119051	School lunch (private) *	56	
1119099	Miscellaneous foods	25	Food products nec
1121011	Refined sake	26	Beverages and tobacco products
1121021	Malt liquors	26	
1121031	Whiskey and brandy	26	
1121099	Miscellaneous liquors	26	
1129011	Tea and roasted coffee	26	
1129021	Soft drinks	26	
1129031	Manufactured ice	26	
1131011	Feeds	25	Food products nec
1131021	Organic fertilizers, n.e.c.	25	
1141011	Tobacco	26	Beverages and tobacco products
1511011	Fiber yarns	27	Textiles
1512011	Cotton and staple fiber fabrics (including fabrics of synthetic spun fibers)	27	
1512021	Silk and artificial silk fabrics (including fabrics of synthetic filament fibers)	27	
1512099	Miscellaneous fabrics	27	
1513011	Knitting fabrics	27	
1514011	Yarn and fabric dyeing and finishing (processing on commission only)	27	

Japanese I-O Tables Basic Classification			GTAP Classification
1519091	Ropes and nets	27	
1519099	Fabricated textiles products, n.e.c.	27	
1521011	Woven fabric apparel	28	Wearing apparel
1521021	Knitted apparel	28	
1522099	Miscellaneous wearing apparel and clothing accessories	28	
1529011	Bedding	28	
1529021	Carpets and floor mats	28	
1529091	Fabricated textiles for medical use	28	
1529099	Ready-made textile products, n.e.c.	28	
1611011	Timber	30	Wood products
1611021	Plywood, glued laminated timber	30	
1611031	Wooden chips	30	
1619091	Wooden products for construction	30	
1619099	Wooden products, n.e.c.	30	
1621011	Wooden furniture	42	Manufactures nec
1621021	Metallic furniture	42	
1621031	Wooden fixtures	42	
1621099	Miscellaneous furniture and fixtures	42	
1631011	Pulp	31	Paper products, publishing
1631021	Used paper	31	
1632011	Paper	31	
1632021	Paperboard	31	
1633011	Corrugated cardboard	31	
1633021	Coated paper and building (construction) paper	31	
1641011	Corrugated card board boxes	31	
1641099	Miscellaneous paper containers	31	
1649011	Paper textile for medical use	31	
1649099	Miscellaneous pulp, paper and processed paper products	31	
1911011	Printing, plate making and book binding	31	
2011011	Chemical fertilizer	33	Chemical, rubber, plastic products
2021011	Soda ash	33	
2021012	Caustic soda	33	
2021013	Liquid chlorine	33	
2021019	Miscellaneous industrial soda chemicals	33	
2029011	Titanium oxide	33	
2029012	Carbon black	33	
2029019	Miscellaneous inorganic pigments	33	
2029021	Compressed gas and liquefied gas	33	

Japanese I-O Tables Basic Classification

GTAP Classification

2029031	Crude salt	33	
2029032	Salt	33	
2029099	Miscellaneous industrial inorganic chemicals	33	
2031011	Ethylene	33	
2031012	Propylene	33	
2031019	Miscellaneous petrochemical basic products	33	
2031021	Pure benzene	33	
2031022	Pure toluene	33	
2031023	Xylene	33	
2031029	Miscellaneous petrochemical aromatic products	33	
2041011	Synthetic alcohol	33	
2041012	Acetic acid	33	
2041013	Ethylene dichloride	33	
2041014	Acrylonitrile	33	
2041015	Ethylene glycol	33	
2041016	Acetic acid vinyl monomer	33	
2041019	Miscellaneous aliphatic intermediates	33	
2041021	Styrene monomer	33	
2041022	Synthetic phenol	33	
2041023	Terephthalic acid (high purity)	33	
2041024	Capro lactam	33	
2041029	Miscellaneous cyclic intermediates	33	
2041031	Synthetic dyes and organic pigments	33	
2042011	Synthetic rubber	33	
2049011	Methane derivatives	33	
2049021	Plasticizers	33	
2049099	Miscellaneous industrial organic chemicals	33	
2051011	Thermo-setting resins	33	
2051021	Polyethylene (low density)	33	
2051022	Polyethylene (high density)	33	
2051023	Polystyrene	33	
2051024	Polypropylene	33	
2051025	Vinyl chloride resins	33	
2051031	High function resins	33	
2051099	Miscellaneous synthetic resins	33	
2061011	Rayon and acetate	33	
2061021	Synthetic fibers	33	
2071011	Medicaments	33	

Japanese I-O Tables Basic Classification			GTAP Classification
2081011	Oil and fat industrial chemicals	33	
2081012	Soap and synthetic detergents	33	
2081013	Surface active agents	33	
2081021	Cosmetics, toilet preparations and dentifrices	33	
2063011	Paint and varnishes	33	
2063021	Printing ink	33	
2083011	Photographic sensitive materials	33	
2084011	Agricultural chemicals	33	
2089011	Gelatin and adhesives	33	
2089091	Catalyzer	33	
2089099	Final chemical products, n.e.c.	33	
2111011	Gasoline	32	Petroleum, coal products
2111012	Jet fuel oils	32	
2111013	Kerosene	32	
2111014	Light oils	32	
2111015	Heavy oil A	32	
2111016	Heavy oil B and C	32	
2111017	Naphtha	32	
2111018	LPG (liquefied petroleum gas)	32	
2111019	Miscellaneous petroleum refinery products	32	
2121011	Coke	32	
2121019	Miscellaneous coal products	32	
2121021	Paving materials	32	
2211011	Plastic films and sheets	33	Chemical, rubber, plastic products
2211012	Plastic plates, pipes and bars	33	
2211013	Foamed plastic products	33	
2211014	Industrial plastic products	33	
2211015	Reinforced plastic products	33	
2211016	Plastic containers	33	
2211017	Plastic table ware, kitchen ware and miscellaneous household articles	33	
2211019	Miscellaneous plastic products	33	
2221011	Tires and inner tubes	33	
2229011	Rubber and plastic footwear	33	
2229099	Miscellaneous rubber products	33	
2311011	Leather footwear	29	Leather products
2312011	Leather and fur skins	29	
2312021	Baggage, handbags, small leather cases and miscellaneous leather products	29	
2511011	Sheet glass	34	Mineral products nec
2511012	Safety glass and multilayered glass	34	

Japanese I-O Tables Basic Classification			GTAP Classification
2511021	Glass fiber and glass fiber products, n.e.c.	34	
2511091	Glass processing materials	34	
2511099	Glass products, n.e.c.	34	
2521011	Cement	34	
2521021	Ready mixed concrete	34	
2521031	Cement products	34	
2531011	Pottery, china and earthenware for construction	34	
2531012	Pottery, china and earthenware for industry	34	
2531013	Pottery, china and earthenware for home use	34	
2591011	Clay refractories	34	
2591099	Miscellaneous structural clay products	34	
2599011	Carbon and graphite products	34	
2599021	Abrasive	34	
2599099	Miscellaneous ceramic, stone and clay products	34	
2611011	Pig iron	35	Ferrous metals
2611021	Ferro alloys	35	
2611031	Crude steel (converters)	35	
2611041	Crude steel (electric furnaces)	35	
2612011	Scrap iron	35	
2621011	Section steel (ordinary steel)	35	
2621012	Steep plate (ordinary steel)	35	
2621013	Steel strip (ordinary steel)	35	
2621014	Steel bar (ordinary steel)	35	
2621015	Miscellaneous hot rolled steel (ordinary steel)	35	
2621016	Hot rolled steel (special steel)	35	
2622011	Steel pipes and tubes (ordinary steel)	35	
2622012	Steel pipes and tubes (special steel)	35	
2623011	Cold-finished steel (ordinary steel)	35	
2623012	Cold-finished steel (special steel)	35	
2623021	Coated steel	35	
2631011	Forged steel	35	
2631012	Cast steel	35	
2631021	Cast iron pipes and tubes	35	
2631031	Cast materials (iron)	35	
2631032	Forged materials (iron)	35	
2699011	Iron and steel shearing and slitting	35	

Japanese I-O Tables Basic Classification			GTAP Classification
2699099	Miscellaneous iron or steel products	35	
2711011	Copper	36	Metals nec
2711021	Lead and zinc (including regenerated lead)	36	
2711031	Aluminum (including regenerated aluminum)	36	
2711099	Miscellaneous non-ferrous metals	36	
2712011	Non-ferrous metal scrap	36	
2721011	Electric wires and cables	36	
2721021	Optical fiber cables	36	
2729011	Rolled and drawn copper and copper alloys	36	
2729021	Rolled and drawn aluminum	36	
2729031	Non-ferrous metal castings and forgings	36	
2729041	Nuclear fuels	36	
2729099	Miscellaneous non-ferrous metal products	36	
2811011	Metal products for construction	37	Metal products
2812011	Metal products for architecture	37	
2891011	Gas and oil appliances and heating and cooking apparatus	37	
2899011	Bolts, nuts, rivets and springs	37	
2899021	Metal containers, fabricated plate and sheet metal	37	
2899031	Plumber's supplies	37	
2899032	Powder metallurgy products	37	
2899033	Cutlery and tools	37	
2899091	Stamped and pressed metal products	37	
2899092	Fabricated wire products	37	
2899099	Metal products, n.e.c.	37	
2911011	Boilers	41	Machinery and equipment nec
2911021	Turbines	41	
2911031	Engines	41	
2912011	Pumps and compressors	41	
2913011	Conveyors	41	
2914011	Refrigerators and air conditioning apparatus	41	
2919011	Bearings	41	
2919091	Mechanical power transmission equipment	41	
2919099	General-purpose machinery, n.e.c.	41	
3011011	Machinery for agricultural use	41	

Japanese I-O Tables Basic Classification		GTAP Classification	
3012011	Machinery and equipment for construction and mining	41	
3013011	Textile machinery	41	
3014011	Food processing machinery and equipment	41	
3014012	Wood working machinery	41	
3014013	Pulp equipment and paper machinery	41	
3014014	Printing, bookbinding and paper-converting machinery	41	
3014015	Packing machinery	41	
3015011	Chemical machinery	41	
3015021	Casting equipment	41	
3015022	Plastic processing machinery	41	
3016011	Metal machine tools	41	
3016021	Metal processing machinery	41	
3016031	Machinists' precision tools	41	
3017011	Semiconductor making equipment	41	
3019011	Metal molds	41	
3019021	Vacuum equipment and vacuum component	41	
3019031	Robots	41	
3019099	Miscellaneous production machinery	41	
3111011	Copy machine	41	
3111099	Miscellaneous office machines	41	
3112011	Vending machines	41	
3112012	Amusement machinery	41	
3112019	Miscellaneous machinery for service industry	41	
3113011	Measuring instruments	41	
3114011	Medical instruments	41	
3115011	Optical instruments and lenses	41	
3116011	Ordnance	42	Manufactures nec
3211011	Electron tubes	40	Electronic equipment
3211021	Semiconductor devices	40	
3211031	Integrated circuits	40	
3211041	Liquid crystal panel	40	
3299011	Magnetic tapes and discs	40	
3299021	Electric circuit	40	
3299099	Miscellaneous electronic components	40	
3311011	Generators	40	
3311012	Electric motors	40	
3311021	Transformers and reactors	40	

Japanese I-O Tables Basic Classification			GTAP Classification
3311031	Relay switches and switchboards	40	
3311041	Wiring devices and supplies	40	
3311051	Electrical equipment for internal combustion engines	40	
3311099	Miscellaneous electrical devices and parts	40	
3321011	Household air-conditioners	40	
3321021	Household electric appliances (except air-conditioners)	40	
3331011	Applied electronic equipment	40	
3332011	Electric measuring instruments	40	
3399011	Electric bulbs	40	
3399021	Electric lighting fixtures and apparatus	40	
3399031	Batteries	40	
3399099	Miscellaneous electrical devices and parts	40	
3411011	Video equipment and digital camera	40	
3411021	Electric audio equipment	40	
3411031	Radio and television sets	40	
3412011	Wired communication equipment	40	
3412021	Cellular phones	40	
3412031	Radio communication equipment (except cellular phones)	40	
3412099	Miscellaneous communication equipment	40	
3421011	Personal Computers	40	
3421021	Electronic computing equipment (except personal computers)	40	
3421031	Electronic computing equipment (accessory equipment)	40	
3511011	Passenger motor cars	38	Motor vehicles and parts
3521011	Trucks, buses and miscellaneous cars	38	
3522011	Two-wheel motor vehicles	38	
3531011	Internal combustion engines for motor vehicles	38	
3531021	Motor vehicle parts and accessories	38	
3541011	Steel ships	39	Transport equipment nec
3541021	Miscellaneous Ships (except steel ships)	39	
3541031	Internal combustion engines for vessels	39	
3541101	Repair of ships	39	
3591011	Rolling stock	39	
3591101	Repair of rolling stock	39	

Japanese I-O Tables Basic Classification			GTAP Classification
3592011	Aircrafts	39	
3592101	Repair of aircrafts	39	
3599011	Bicycles	39	
3599091	Transport equipment for industrial use	39	
3599099	Transport equipment, n.e.c.	39	
3911011	Toys and games	42	Manufactures nec
3911021	Sporting and athletic goods	42	
3919011	Jewelry and adornments	42	
3919021	Watches and clocks	42	
3919031	Musical instruments	42	
3919041	Stationery	42	
3919051	"Tatami" (straw matting) and straw products	42	
3919061	Audio and video records, other information recording media	42	
3919099	Miscellaneous manufacturing products	42	
3921011	Reuse and recycling	42	
4111011	Residential construction (wooden)	46	Construction
4111021	Residential construction (non-wooden)	46	
4112011	Non-residential construction (wooden)	46	
4112021	Non-residential construction (non-wooden)	46	
4121011	Repair of construction	46	
4131011	Public construction of roads	46	
4131021	Public construction of rivers, drainages and miscellaneous public construction	46	
4131031	Agricultural public construction	46	
4191011	Railway construction	46	
4191021	Electric power facilities construction	46	
4191031	Telecommunication facilities construction	46	
4191099	Miscellaneous civil engineering and construction	46	
4611001	Electricity	43	Electricity
4611041	Private power generation	43	
4621011	Gas supply	44	Gas manufacture, distribution
4622011	Steam and hot water supply	44	
4711011	Water supply	45	Water
4711021	Industrial water supply	45	

Japanese I-O Tables Basic Classification			GTAP Classification	
4711031	Sewage disposal **	56	Public administration and defense, education, health	
4811011	Waste management services (public) **	56		
4811021	Waste management services (industry)	56		
5111011	Wholesale trade	47	Trade	
5112011	Retail trade	47		
5311011	Financial service (FISIM), public	52	Financial services nec	
5311012	Financial service (FISIM), private	52		
5311013	Financial service (commission), public	52		
5311014	Financial service (commission), private	52		
5312011	Life insurance	53	Insurance	
5312021	Non-life insurance	53		
5511011	Real estate agencies and managers	54	Business services nec	
5511021	Real estate rental service	54		
5521011	House rent	57	Dwellings	
5531011	House rent (imputed house rent)	57		
5711011	Railway transport (passengers)	48	Transport nec	
5712011	Railway transport (freight)	48		
5721011	Bus transport service	48		
5721021	Hired car and taxi transport	48		
5722011	Road freight transport (except self-transport)	48		
5731011	Self-transport (passengers)	48		
5732011	Self-transport (freight)	48		
5741011	International shipping	49	Water transport	
5742011	Coastal and inland water transport (passengers)	49		
5742012	Coastal and inland water transport (freight)	49		
5743011	Harbor transport service	49		
5751011	International air transport	50	Air transport	
5751012	Domestic air transport (passengers)	50		
5751013	Domestic air transport (freight)	50		
5751014	Aircraft service except air transport	50		
5761011	Consigned freight forwarding	48	Transport nec	
5771011	Storage facility service	48		
5781011	Packing service	48		
5789011	Facility service for road transport	48		
5789021	Port and water traffic control **	48		
5789031	Services relating to water transport	48		

Japanese I-O Tables Basic Classification
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5789041	Airport and air traffic control (public) **	48	
5789051	Airport and air traffic control (industrial)	48	
5789061	Services relating to air transport	48	
5789099	Travel agency and miscellaneous services relating to transport	48	
5791011	Postal services and mail delivery	51	Communication
5911011	Fixed telecommunications	51	
5911021	Mobile telecommunications	51	
5911099	Miscellaneous telecommunications	51	
5919099	Miscellaneous services relating to communication	51	
5921011	Public broadcasting	51	
5921021	Private broadcasting	51	
5921031	Cable broadcasting	51	
5931011	Computer programming and miscellaneous software services	54	Business services nec
5931012	Data processing and research and information services	54	
5941011	Internet based services	54	
5951011	Video picture, sound information, character information production	54	
5951021	Newspaper	54	
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6112011	Public administration (local) **	56	
6311011	School education (public) **	56	
6311021	School education (private) *	56	
6312011	Social education (public) **	56	
6312021	Social education (private, non-profit) *	56	
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6441021	Nursing care (except facility services)	56	
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6599021	Private non-profit institutions serving households, n.e.c. *	55	Recreational and other services
6611011	Industrial equipment and machinery rental and leasing (except construction machinery)	54	Business services nec
6611012	Construction machine rental and leasing	54	
6611013	Electronic computing equipment rental and leasing	54	
6611014	Office machines rental and leasing (except electronic computing equipment)	54	
6611015	Sports goods, recreation goods and miscellaneous goods rental and leasing	54	
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6699099	Miscellaneous business services	54	
6711011	Hotels	47	Trade
6721011	Eating and drinking services	47	
6731011	Cleaning	55	Recreational and other services
6731021	Barber shops	55	
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6731041	Public baths	55	
6731099	Miscellaneous cleaning, barber shops, beauty shops and public baths	55	
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6741021	Performances (except movie theaters), theatrical companies	55	
6741031	Stadiums and companies of bicycle, horse, motorcar and motorboat races	55	
6741041	Sport facility service, public gardens and amusement parks	55	
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