

Input-Output Classification

001 Paddy

This sector covers the combined production of both glutinous and non-glutinous paddy. Their by-products are straws.

002 Maize

This sector covers the combined production of fresh, dried, and young maize, including their by-products.

003 Other cereals

This sector covers the combined production of sorghum and barley, including their by-products.

004 Cassava

The only products included in this sector are fresh cassava roots.

005 Other root crops

This sector contains potatoes, sweet potatoes, taro roots and root-crops not mentioned elsewhere.

006 Beans and nuts

This sector covers beans and nuts of all kinds such as mung beans, soybeans, castor seeds, kidney beans, sesame, peanuts, urad beans, and other ground nuts.

007 Vegetable

Vegetables such as chilies, gingers, onions, shallots, garlic, cabbages, tomatoes, and other vegetables not mentioned elsewhere are included in this sector.

008 Fruits

This sector includes the production of oranges, grapes, durians, rambutans, mangoes, pineapples, watermelons, bananas, mangosteens, pomelos, longans, jackfruits, lychees, and other fruits not mentioned elsewhere.

009 Sugar cane

The only product included in this sector is sugar cane which includes both varieties to be consumed by household and industrialized.

010 Coconut

Fresh coconut is the main product of this sector. Coconut leaf, coconut fiber, copra and coconut shell are the by-product.

011 Oil palm

Production in this sector combines oil palm and palm lily includes by-product.

012 Kenaf and jute

This sector covers the production of kenaf, jute and ramie.

014 Tobacco

Fresh tobacco leaves and seeds are the two main agricultural products of this sector. Production is classified into Virginia, Burley, Turkish and Native varieties. Tobacco seeds are also included.

015 Coffee and tea

This sector covers the production of all fresh coffee beans, tea leaves and cocoa.

016 Rubber

Latex from the rubber tree is the main product of this sector.

017 Other agricultural product

This sector covers flowers and seed of all kinds, including ornamental plants, herbs, and grafts.

018 Cattle and buffalo

This sector covers the production of cattle and buffalo for slaughter, export and breeding. Also included in this sector is fresh milk for dairying.

019 Swine

This sector covers the production of swine for slaughter, export and breeding. The by products are also included

020 Other livestock

Goats, sheep, horses, rabbits, crocodiles, elephants and others are covered under this sector.

021 Poultry

This sector covers the production of chickens, ducks and geese.

022 Poultry products

This sector covers eggs, which can be gained by raising fowl.

023 Silkworm

This sector includes the products of silkworm and silk cocoons.

024 Agricultural services

This sector covers the plough services using both animals and tractors.

025 Logging

This sector includes logs of all kinds such as teak, rubberwood, selangan batu, padauk, among others.

026 Charcoal and firewood

This sector covers the production of charcoal and firewood.

027 Other forest products

Products of this sector are bamboo, bamboo shoot, rattan, and other forest products.

028 Ocean and coastal fishing

Covered in this sector are ocean fishing, coastal fishing, and coastal fish cultivation.

029 Inland fishing

This sector covers the activities of both inland fish catching and cultivation.

030 Coal and lignite

This sector includes coal and lignite mining.

031 Petroleum and natural gas

This sector covers the exploration activities for crude petroleum and natural gas, the drilling, completing, and equipping of wells carried out on an own-account basis, and the operation of oil and natural gas wells.

032 Iron ore

This sector includes activities primarily involving the extraction and extraction and dressing of iron ore.

033 Tin ore

The coverage of this sector includes activities involving in extracting and dressing of tin ore.

034 Tungsten ore

This sector includes activities involved in extraction and preparation of tungsten ore.

035 Other non-ferrous metals

This sector includes activities involved in extraction and dressing of non-ferrous ore, such as antimony, chromite, columbite, copper, manganese, monazite, tantalite, zirconite, zinc, zircon, and lead ore.

036 Fluorite

This sector covers the activities of exploring for and extraction of fluorite.

037 Chemical fertilizers

Covered in this sector are activities related to the mining or other extraction of mineral used for chemicals and fertilizers such as phosphate, pyrophyllite, and magnesium carbonate, among others.

038 Salt

Covered in this sector are activities related to the extraction of rock salt and the production of salt from sea water.

039 Limestone

This sector primarily covers the activity involved in the extraction of limestone.

040 Stone quarrying

This sector covers the activities of stone quarrying, clay extraction, gravel and sand pit operation, clay pit operation, and marble mining.

041 Other mining and quarrying

Excluding stone quarrying, this sector covers activities of mining and other quarrying of products such as asbestos, calcite, diatomite, dolomite, feldspar, gypsum, marl quartz, silica sand and jewelry stone.

042 Slaughtering

This sector covers the activity of slaughterhouses and products such as fresh meat, pork, chicken, and duck. Also included are hides of cattle and buffalo,

feathers of chicken and duck, buffalo horns and other by-products of cattle, buffalo, swine, chicken, and duck.

043 Canning and preserving of meat

This sector covers the activity of canning and preserving meat, and the preparation of ham, and sausage.

044 Dairy products

This sector covers pasteurized milk, condensed milk, cream, butter, cheese, margarine, and ice cream.

045 Canning and preservation of fruit and vegetables

This sector covers dried and frozen fruits, canned and bottled fruits and vegetables, fruit and vegetable juice, jam, jellies, and others.

046 Canning and preservation of fish and other sea foods

This sector covers frozen fish, salted and dried fish and preserved fish.

047 Coconut and palm oil

This sector covers coconut oil, palm oil, coconut cake and palm cake.

048 Animal oil, animal fat, vegetable oil and by-products

The products covered are lard, animal fat, soybean oil, cotton seed oil, kapok seed oil, sunflower seed oil, rice bran oil, other vegetable oil, and their by-products.

049 Rice milling

This sector covers production of husked-cleaned polished rice, parboiled rice, broken rice, rice bran and rice husk.

050 Tapioca milling

This sector covers milled products of cassava of all kinds such as tapioca flour, tapioca chips and tapioca pellets.

051 Grinding of maize

This sector covers maize milling activities such as grinding of corncob and other maize products.

052 Flour and other grain milling

This sector covers the activity of flour and other grain milling.

053 Bakery products

This sector covers all bakery products such as bread, cake, pies, and crackers.

054 Noodles and similar products

Covers in this sector are noodles of all kinds such as yellow noodles, white noodles made from rice flours, spaghetti, macaroni, etc. Instant noodles also belong to this category.

055 Sugar

This sector covers refined sugar made from sugarcane and coconut tree as well as the by-products of sugar such as syrup, molasses and bagasse.

056 Confectionery

Candies, chocolate, chewing gum and other confectioneries are covered by this sector.

057 Ice

Ice is the sole product of this sector.

058 Monosodium glutamate

Monosodium glutamate is the only product covered in this sector.

059 Coffee and tea

This sector covers the activities involved in the processing of coffee and tea. The productions covered by this sector are coffee and tea powers, instant coffee, and tea as well as roasted coffee beans and tea leaves.

060 Other food products

This sector includes soy sauce, bean curd, fish sauce, vinegar, salted and fermented eggs, spices, table salt, other sauces, and other prepared food.

061 Animal feed

Covered in this sector is the production of all kinds of animal feed such as chicken feed and fish meal.

062 Distilling and spirits blending

This sector covers manufacturing of brandy, liqueurs, and wine.

063 Breweries

Brewing of malt and beer are included in this sector.

064 Soft drinks and carbonated water

This sector covers soda water, carbonated fruit drinks, distilled water, and other soft drinks.

065 Tobacco processing

This sector covers the activities of tobacco-leaf processing. Only dried tobacco-leaf is included in this sector. There are four kinds of dried tobacco-leaf: Virginia, Burley, Turkish and Native.

066 Tobacco products

This sector consists of cigar, cigarettes, cut tobacco and chewing tobacco.

067 Spinning

This sector includes cotton, synthetic silk yarn, spun, and short and long synthetic staple. Excluded from this sector are yarns from jute and kenaf.

068 Weaving

Covered in this sector are cotton fabrics, mixed-cotton fabrics, synthetic fabrics, and silk fabrics. Jute and kenaf fabrics are not included.

069 Textile bleaching, printing and finishing

This sector covers the activities of printing, bleaching, and finishing textile.

070 Made-up textile goods

This sector covers all textile processed products not classified elsewhere. Products included are household textile furnishing materials, textile bags, canvas products, lace and lace products, textile-coated fabrics, felt and felt products and textile wadding material.

071 Knitting

Covered in this sector are knitted fabrics and products from knitted fabrics. Knitting products made directly from yarn such as stockings are also included.

072 Wearing apparel

This sector covers the products of wearing apparel and allied clothing produced in factory, which includes woven products such as handkerchiefs, neckties, shawls, and veils excluding all kinds of wearing apparel made by tailors.

073 Carpets and rugs

This sector covers only the products of carpets and rugs made from textile materials. Carpets and rugs from straw or material other than textile were not included.

074 Jute mill products

Covered in this sector are products made from kenaf and jute. Other products included are yarn and fabrics of kenaf and jute except for those used in gunny

bags. However, fishing nets made from materials of all kinds are included in this sector.

075 Tanneries and leather finishing

The tanning and finishing of animal leather and skin are included in this sector. All kinds of artificial leathers are excluded.

076 Leather products

Leather and artificial leather products are covered in this sector.

077 Footwear, except of rubber

This sector covers footwear made of leather, fabrics, and other materials. It excludes those wholly made of wood, molded rubber or plastic.

078 Saw mills

This sector covers sawn timber and other wooden construction materials such as plywood and chip board.

079 Wood and cork products

Except for furniture and fixtures, this sector covers products made from wood, rattan, and bamboo such as wooden boxes and containers. Also included are handicraft utensils, articles and parts of equipment which can be commonly installed in different kinds of equipment.

080 Wooden furniture and fixtures

This sector covers all kinds of furniture and fixtures except those made of metal.

081 Pulp, paper and paperboard

This sector covers pulp, paper, and paperboard.

082 Paper and paperboard products

This sector included all kinds of paper and paperboard products such as paper boxes, book covers, writing pads, envelopes, labels, paper bags and sanitary napkins. Published products such as books, magazines and newspapers are not included.

083 Printing and publishing

This sector covers printing activities by one or more of the common processes such as the use of the letterpress, lithographing, offset printing and bookbinding. Also included are the publishing of newspapers, periodicals, books, and maps.

084 Basic industrial chemicals

This sector covers the manufacture of basic industrial chemicals such as hydrogen, oxygen, nitrogen, chlorine, sulfur and other chemical elements; inorganic acids and other oxygen compounds of metalloids such as hydrochloric acid, sulfuric acid, nitric acid and carbon dioxide; inorganic bases and metallic oxides such as ammonia and caustic soda; salts of inorganic acids such as aluminum sulfate, potassium nitrate, soda ash, sodium silicate and calcium hypochlorite; carbides; and organic chemicals such as methyl alcohol, polyhydric alcohols, esters of polyhydric alcohols, acetic acid and aldehydes.

085 Fertilizer and pesticides

The products of this are urea, ammonium sulfate, phosphate, chemical fertilizer, organic fertilizer, pesticides, and insecticides.

086 Petrochemical products

This sector covers the activities involved in the processing of petrochemicals. The products identified by this sector are upstream products such as ethylene, propylene; intermediate products such as vinyl chloride monomer, styrene monomer and downstream products such as polyvinyl chloride, polyethylene, etc.

087 Paints

This sector covers the manufacture of paints, varnishes, stains and shellac, lacquers, enamels, and Japan's. Also included are the manufacture of allied products such as composite thinners, paint removers, paint brush cleaners, putty and other coating and filling material. Dyes, organic and inorganic pigments are not included.

088 Drugs and medicines

This sector includes the production of drugs and medicines in all forms such as tablets, capsules, powder, syrup, and liquids for injection. Traditional medicines such as herbs are also included.

089 Soap and cleaning preparations

This product includes in this sector are soap, detergent, shampoo, glycerin, and toilet preparation.

090 Cosmetic

This sector includes the production of perfumes, cosmetic, hair cream, toothpaste, talcum powder and deodorant.

091 Matches

This sector covers matches of all kinds.

092 Other chemical products

Included in this sector are the manufacture of chemical products such as furniture and metal polishes, leather polishes, waxes, adhesive and glues, candles, inks, carbon black and essential oil. Also included in this sector are tanning and dyeing material such as natural indigo, vegetable dye, tanning agents and inorganic pigments. Wood chemicals such as gums and incense products such as joss sticks are also covered.

093 Petroleum refineries

This sector covers oil-processing refineries. Products of this sector are gasoline, jet oil, LPG, asphalt, paraffin, sulfur, kerosene, diesel, and fuel oil.

094 Other petroleum products

This sector covers refined oil, refined grease, and lubricating oil

095 Rubber sheet and block rubber

This sector covers rubber sheets, block rubber, crepe rubber and other processed rubber.

096 Tires and tubes

This sector covers all types of tires and tubes such as those for passenger car, truck and bus, tractor, motorcycle, and bicycle.

097 Other rubber products

This sector covers the manufacture of rubber products not classified elsewhere such as rubber raincoats, rubber gloves, rubber bags, rubber mats, rubber toys, rubber bands, rubber hose and tubes, rubber bottles and rubber sponges.

098 Plastic ware

This sector covers the molding, extruding, and fabricating of plastic articles such as plastic household articles, plastic containers and cups, plastic mats, laminated sheets. Also included are plastic components for insulation, plastic furniture, and plastic industrial supplies.

099 Ceramic and earthen ware

The sector covers pottery, ceramic, and earthenware for industrial and construction use. Sanitary supplies are also included.

100 Glass and glass products

This sector consists of window flat glass, bottles, drinking glasses, lamp chimneys and other.

101 Structural clay products

This sector covers bricks, tiles pipes, refractory bricks, and other similarly structural clay products.

102 Cement

This sector consists of Portland cement, white cement, and lime.

103 Concrete and cement products

This sector covers the manufacture of concrete products such as blocks, posts and piles, precast elements for prefabricates construction materials, other reinforced and pre-stressed concrete products as well as Buddha images and spirit houses.

104 Other non-metallic products

Included in this sector are the manufacture of gypsum plaster products, wood-wool board (cellocrete) and other asbestos product. Cut stone products which were not produced in conjunction with quarrying and all other non-metallic mineral products not classified elsewhere are also included.

105 Iron and steel

The sector covers pig iron, ingot, ferro-silicon, ferro-manganese, and by-products of pig iron.

106 Secondary steel products

The products of this sector are galvanized sheet, tin plate, angle bar and rod wire, tube, and pipe. Steel forging, steel casting, polished steel is also included.

107 Non-ferrous metal

This sector covers the activities relating to the manufacture of primary non-ferrous metal products consisting of primary and secondary smelting, alloying, refining, rolling, and drawing, founding, and casting.

108 Cutlery and hand tools

This sector covers the manufacture of table, kitchen and other cutlery, hand, and edge tools such as axes, sickles, shovels, rakes and other agricultural and garden tools, hammers, screw drivers, files and handsaws. Plumbers', masons', mechanics and machinists' precision hand tools, hinges, locks key sets, builders' hardware and marine luggage and vehicles hardware are also included.

109 Metal furniture and fixtures

This sector covers the manufacture and alteration of furniture and fixtures consisting of primary of metal for household, office, public building, transport equipment, professional and restaurant uses.

110 Structure metal products

This sector covers the manufacture of steel or other metal structure components such as bridges, tanks, building structure, doors and screens, window frames and sashes, shutter, staircases, wrought iron gates. Other architectural metalwork such as metal components for ventilating and air-conditioning systems as well as steam and water tanks are also included.

111 Other fabricated metal products

This sector covers the manufacture of fabricated metal products such as metal cans from tinfoil, enameled sheet metal, metal conveyances, metal shipping containers, metal stamping, fabricated wire, and wire products from purchased wire rods (excluding insulated wire and cable). Sanitary ware, plumbers' brass goods, pipe fittings, enameling, lacquering, galvanizing, electroplating and polishing metal products and a variety of metal products not classified elsewhere are also included. In addition, the sector covers

common machinery part such as bearing and spring, except specialized parts for motor vehicles, aircraft and ships which belong to their respective machinery sectors.

112 Engines and turbines

This sector covers the assembling of steam engines, other engines, and turbines. Also included are the parts and repair of engines and turbines.

113 Agricultural machinery and equipment

This sector covers the assembling of cultivating machines and equipment, sawing and planting machines, harvesting machines and equipment. parts and repair of agricultural machines and equipment.

114 Wood and metal working machines

This sector covers the activities relating to the assembling of wood and metal working machines such as sawing machines, and the parts and repairing of such machines.

115 Special industrial machinery

This sector covers all kinds of industrial machines except those used for wood and metalworking, agricultural machines as well as electrical machines. Machinery included in the sector is for example, construction and mining machines, food and chemical machines, leather, and textile machines, etc. Also included in this sector are pneumatic tools, carrying and loading equipment such as cranes, forklifts and loading trucks, etc. Parts of such machinery and their repair are also included.

116 Office and household machinery and appliances

This sector covers the assembling of office and household machinery and appliances such as air conditioners, refrigerator, freezers, water coolers, sewing machines, typewriters, electric calculators, and all parts. But reparations of them are not covered in this sector.

117 Electrical industrial machinery and appliances

This sector covers the products of electrical industrial machinery and appliances such as generators, transformer, rectifiers, motors, electrical hand tools, electrical motors, electrical welding machines and other electrical machines. Parts for these machines are also included.

118 Radio, television and communication equipment and apparatus

This sector covers the assembly of radios, television sets, tape and cassette recorders, stereo components, telephone, and other communication equipment. Also included are their parts but repairing is excluded.

119 Household electrical appliances

This sector covers the production of household electrical appliances such as electric stoves, electric iron, electric fans, rice cooker, toasters, food mixers and all the parts.

120 Insulated wire and cable

This sector covers the production of insulates wire and cable.

121 Electric accumulators and batteries

This sector covers the production of batteries. Dry cells parts such as lead plates are also included

122 Other electrical apparatus and supplies

This sector covers electrical apparatus and supplies not classified elsewhere, such as electric bulbs, and related light sources. Other products included are conductors, fuses, connectors, etc.

123 Ship building and repairing

Covered in this sector are the building and repairing of ship, boat, and other water transport vessels. Parts of these vessels are also included in the sector.

124 Railroad equipment

This sector covers the production of railroad passenger cars and wagons. The parts and repairs of such equipment are also included in the sector.

125 Motor vehicles

This sector covers the production and assembly of motor vehicles. The products included are passenger cars, trucks, vans, pick-up, buses and the chassis and parts of such vehicles.

126 Motorcycle, Bicycle & Other Carriages

The products of this sector are motorcycles, tricycles, bicycles, carriages, and parts for such products.

127 Repair of motor vehicles

This sector covers automobile and motorcycle repair of all kinds.

128A Aircraft engine and engine parts manufacturing

This sector covers design and development of production methods for aircraft parts or accessories, spare parts and aircraft components including fuselage, wings, doors, fuel tanks, seats for passengers, cabins, fueling apparatus on aircraft and external fuel tanks, etc.

128B Repair, maintenance and overhaul of aircraft engine and parts

This sector covers Repair and maintenance of all types of aircraft engines, as well as all sorts of aircraft accessories for ensure continuity of aircraft airworthiness performance, including overhaul, inspection, replacement, debugging, modification, and repair, etc.

129 Scientific equipment

The sector covers measuring equipment, medical equipment and the parts and repairs of such equipment.

130 Photographic and optical goods

This sector included optical goods, spectacles, telescopes, astronomical, instrument, microscopes, projectors, cameras, photo copying apparatus and parts for these products.

131 Watches and clocks

This sector covers the production and assembly of clocks and watches.

132 Jeweler and related articles

This sector covers activities primary related to the manufacturing of jeweler using precious metals, precious and semi-precious stones and pearls, silverware and plated ware using silver, gold, and other precious metal plating. The cutting and polishing of precious stones and the making of coins and medals from precious metal are also included.

133 Recreational and athletic equipment

The products in this sector include musical instruments, music recording, footballs, golf balls, badminton rackets, boxing gloves and other recreational and athletic equipment.

134 Other manufactured goods

This sector covers the products that have been excluded from the manufacturing sectors by code 042 to 133. The main products of this sector are stationary, toys, umbrella, zippers, buttons, fasteners, etc.

135 Electricity

This sector covers the generation, transmission, and distribution of electric for sale to household, industrial, commercial, and public users. Electricity generation plants owned by manufacturing enterprises for their own use are also included.

136 Pipe line and gas distribution

This sector covers gas distribution such as LPG, ethane, propane, natural gasoline (NGL).

137 Water work and supply

This sector covers the activities related to the purification and distribution of water to household, industrial, commercial, and public users. The operation of irrigation system is not included in this sector.

138 Residential building construction

This sector covers the construction of new building for residential purposes such as homes, sop houses, apartment, and dormitories. The activities of extending, repairing, painting and decorating buildings as well as the installation of electricity and air conditioning systems are also included. Excluded from this section is the cost of acquiring land.

139 Non-residential building construction

This sector covers the construction of new non-residential building such as business building, factories, hotels, school, hospitals, and warehouse as well as related activities of extension and repair. Excluded are the constructions of railway station, power station or communication plants.

140 Public works for agriculture and forestry

This sector covers the construction and extension of irrigation works for agriculture and forestry. Only new construction is included.

141 Non-agriculture public works

This sector covers the construction and repair of highway, streets, roads, bridges, airports, water supplies and sewage systems.

142 Construction of electric plants

This sector covers the construction and repair of electricity generating plants and transmission systems.

143 Construction of communication facilities

This sector covers the construction and repair of broadcasting and communication systems such as radio station, town telephone installation and other facilities.

144 Other construction

This sector covers the construction work not classified elsewhere such as the construction of public parks, parking lots, golf courses, tennis courts, swimming pools and athletic fields of all kinds.

145 Wholesale trade

This sector includes establishments for the re-sale of new and used goods to retail, industrial, commercial, institutional, and professional outlets, as well as for other wholesale uses. Agents engaged in buying or selling merchandise are also covered in the sector. The principal type of business included are wholesale merchants engaged in own account buying and selling, industrial distributors, exporters and co-operative buying associations and sales offices maintained by mining or manufacturing enterprises for the purpose of marketing their products. Also included are cooperative associations engaged in the marketing of farm produce, scrap metal and waste dealers, junk yards, wholesalers who sort and grade goods in large lots of wholesale packers, bottling companies except those engaged in packing or bottling in airtight containers.

146 Retail trade

This sector included establishments engaged in the sale to the public of new and used goods for personal or household consumption. Retailing establishments include shops, department stores, stalls, gasoline service stations, retail motor vehicle dealers, peddlers, consumer co-operatives, and auction houses. Included also are own account retailers who act as agents, buying and selling on consignment or on a commission basis. Establishments

engaged in selling displayed merchandise such as typewriters, stationery and petrol to the public are classified in this group though these goods may not be for personal, or household uses.

147 Restaurants and drinking places

The sector includes establishments engaged in selling prepared food or drink for immediate consumption such as nightclubs, restaurants, bard, coffee shops, etc. Also included are canteens and eating facilities in plants and offices. Restaurants operated by hotels and massage parlors for the public are also included. Peddlers of food and noodle stands are also covered in this sector.

148 Hotels and places of lodging

This sector includes establishments engaged in the provision for fee of lodging and camping facilities, whether open to the public or restricted to members of a particular organization. Related restaurant facilities operated for the purpose of serving the establishment's customers are also included.

149 Railways

This sector covers the service related to the transportation of both passengers and cargo. Also included are dining car services. Since the repair of railway equipment is not covered in this sector.

150 Road passenger transport

This sector covers only the transport of passengers by taxicabs, buses, inter-city buses and other vehicles such as tricycles. Private vehicles for personal transportation are excluded.

151 Road freight transport

This sector covers local and long-distance trucking. Also included are such services for one's own business purposes.

152 Land transport support service

This sector includes all land transport support services such as the operation of parking lots, toll roads rental of automobiles and self-driven trucks.

153 Ocean transport

This sector covers the ocean transport of both passengers and freight.

154 Coastal and inland water transport

This sector refers to the operation of freight and passenger vessels along various parts of the coast of Thailand. Those operated on inland waterways, river ferries and tugboats are included.

155 Water transport services

Included in this sector are the provision of supporting services for water transport of all kinds such as the maintenance and operation of harbors, docks, lighthouses, and other navigation aids, loading and unloading services, the salvaging of vessels, ship leasing and rental. Included in this sector are the activities of the Port Authority of Thailand.

156A Commercial air transport services

This sector covers air transportation of passengers, mail, and freight. The involved operators are commercial airlines with scheduled service. and without scheduled flights, including charter services and others such On-demand air transport, air taxi, commercial business aviation, etc.

156B General aviation

This sector covers general aviation activities encompass both scheduled and unscheduled civil aviation operations other than commercial aviation. General aviation can be separated into flight instruction and recreational flying. Aviation-related work (exploration, photography, agriculture, etc.) and other aviation-related work, etc.

156C Airport operation and services

This sector covers aeronautical services and non-aeronautical services with details as follows:

- Aeronautical services are airport-provided services for aviation operations, including aerodrome services, ground handling services, and aircraft fuel services. Maintenance service for light aircraft Meal service, Flight Operations and Crew Admin Services, etc.
- Non-aeronautical services are airport services that are unrelated to aviation activities, such as the granting of space rights or concessions. space rental Parking assistance Leasing of structures in the aviation zone for aircraft repair, maintenance, or storage Airline rentals, stores, caterers, and space rental services are provided in the terminals, among others.

156D Air navigation services

This sector covers approach and aerodrome control services, air traffic management, communications, navigation, and surveillance systems (CNS), meteorological services for air navigation (MET), search and rescue (SAR) and aeronautical information services (AIS) , etc.

157A Other air transport services

This sector covers other activities associated with the aviation sector. In addition to the preceding, building cleaning services are provided inside of a plane, upkeep of the airport's scenery, etc.

157B Miscellaneous services relating to transport

This sector covers the establishment of a business to conduct transportation-related operations. It acts as a travel agency and prepares for freight and passenger travel, including travel agents, packaging and cartoning services, inspection and weighing of items, etc.

158 Storage and warehousing

This sector covers the operation of storage facilities and warehouse. Silo services for drying maize are also included.

159 Post and telecommunication

This sector covers the services of central and provincial offices of the Telephone Organization of Thailand. Construction and radio-communication activities of the Post and Telegraph Department are not included.

160 Banking services

This sector covers all activities of monetary and financial institutions. Included are the central bank, commercial banks, development banks, saving bank, rural banks, pawnshops, credit cooperatives and foreign exchange dealers.

161 Life insurance services

Life insurance is defined as the activities of life insurance institutions and related services.

162 Other insurance services

This sector covers all insurance other than life such as fire, accident, marine and health insurance.

163 Real estate

This sector covers the activities of real estate agents and brokers.

164 Business services

The sector includes service such as accounting, auditing and book-keeping services, data processing and tabulating services, engineering, architectural and technical services, parliament, and the judicial authorities.

165A Aviation regulatory functions

The sector covers activities conducted by relevant government and business organizations, include aviation safety standards, international air service agreement negotiations, and air safety incident investigations. and the collection of information pertaining to aviation, etc.

165B Public administration

The sector covers the central, provincial, and local government, as well as the royal household, parliament, and the judicial authorities.

166 Sanitary and similar services

This sector covers the activities related to sanitary and similar services such as garbage and sewage disposal, the operation of drainage systems and the purification of water for consumption. Also included are cleaning services.

167A Aviation training

The sector covers an institution accredited by a government agency or other legal authority to provide pilot instruction.

167B Education

This sector covers all public and education institution at all levels such as kindergartens, primary schools, secondary schools, colleges, and universities. Also included are vocational schools and others providing specialized education such as language and painting schools. Research institute, hospitals belonging to universities, as well as education provided neither by government nor household are not included.

168 Research

This sector includes institutions primarily engaged in basic and general research in the biological, physical, and social sciences. Since information on private research institutes in Thailand are not available, only research accomplished by government offices, universities and public enterprises are included.

169 Hospital

Covered in this sector are medical, surgical, dental, and other health services. This includes hospitals, sanitariums, nursing homes and similar institution, maternity and child welfare clinics, consulting offices of physicians, surgeons, and other medical practitioners such as dentists, the services of midwives and nurses in private practice ambulance service and medical and dental laboratories that provide testing, diagnostic and other service to the medical and dental professions. Activities primary relating to the manufacture of dental supplies and artificial teeth to order are also included.

170 Business and labor associations

This sector includes private business institution such as the Board of Trade of Thailand, the Thai Chamber of Commerce, The Association of Thai industries, and professional organizations such as the Engineering Institute of Thailand, labor unions and labor organization.

171 Other community service

This sector includes institution engaged in providing social welfare services such as the Red Cross Society and other organization for the collection and allocation of charitable contribution such as children and societies, day nurseries, orphanages, Input-Output Description 23 home for destitute adults, homes for handicapped person, home for aged, family welfare society and other charitable organization. This section was classified broadly into three types of organizations, namely, Red Cross Society, other charitable organizations, and religious organizations.

172 Motion Picture Production

This sector covers the activities relating to the production of motion pictures for showing. They also include both still and slide films. Other related services such as film developing, printing, film editing, titling, copying, and distributing of both local and foreign films are also included.

173 Movie theatres

All theatres and movie houses are covered in this sector.

174 Radio, television and related services

Included in this sector are radio and television stations primarily engaged in the production and dissemination of audiovisual programs for the public. The activities of television and radio relay stations are also included in this sector.

175 Libraries and museums

This sector covers the operation of libraries, information centers, archeological and other museums, art galleries, botanical and zoological gardens, and similar institutions.

176 Amusement and recreation

This sector covers the activities of theatres providing theatrical presentation such as classical drama, dance and concerts, entertainment services such as those provided by bands and orchestras and musical recording. This sector also includes the services related to theatrical presentation such as those provided by booking agencies for plays. Self-employed artists and instructors such as actors, dancers, musicians, singer and other entertainers and producers for radio and television programs, motion picture, play and other presentations, composers and song writers, authors, painters and operators of dance halls, bowling alleys, billiard and pool rooms, race tracks, boxing stadiums, football fields, sports clubs, gymnasiums, tennis courts and golf courses, sport promoters, operators, of amusement parks and renters of pleasure boats, motorcycles, golf carts, saddle horses and similar recreation goods are also included in this sector.

177 Repair not classified elsewhere

This sector included establishments specialized in the repair of household appliances, equipment and furnishing, motor cars and other consumers goods

which are not classified elsewhere. Also included in this sector are establishments specialized in the installation of household appliances such as stoves and ranges, refrigerators, air-conditioning apparatus, and television sets.

178 Personal service

This sector included establishments primarily engaged in washing, ironing, dry cleaning, pressing and dyeing apparel, house furnishing or household fabrics. The repair of clothing, bedspreads, blanket, curtains, and other personal and household textiles are also included in this sector. This sector also included the services of maids, cooks, gardeners, caretakers, and other maintenance workers for household, whether provided by individuals who are employed by these households or by business units primarily engaged in furnishing these services. In addition, establishments engaged in rendering personal care and services not classified elsewhere such as barber hairdressing and beauty shop, photographic studios, Turkish baths establishments, massage parlors and crematories are also included.

180 Unclassified

This sector includes mainly activities not classified elsewhere.

190 Total intermediate transactions

This is the sum of sectors 001 to 180

201 Wages and salaries

This sector covers compensation by employers to employees both in cash and in kind. Employees are classified as long-term workers, temporary workers, temporary workers, executives and hired laborers in the agricultural sector, but not family workers.

202 Operating surplus

The operating surplus is defined as the total value-added including business income tax, minus wages and salaries, depreciation and indirect taxes, less subsidies.

203 Depreciation

Depreciation consists of capital consumption allowances for all fixed assets. The imputation of depreciation of government buildings is describe in the public administration sector and that of self-occupied dwellings is in real estate sector. The depreciation on fixed assets for leasing such as computers is shown in the sector of owner of fixed assets for leasing such as computers is show in the sector of owner of fixed assets.

204 Indirect taxes less subsidies

Indirect taxes cover the domestic commodity sales tax, export duty, licensing fees, service tax of hotels, restaurant and the like, duty stamps and special commodity tax such as those on automobiles, electrical equipment, alcoholic drinks, cigarettes, petroleum products, etc.

209 Total value added

This is sum of all the primary inputs from 201 to 204.

210 Control total

This is sum of total intermediate transactions and value added.

301 Private consumption expenditures

Private consumption expenditures are the current expenditures on goods and service by households and private non-profit organizations. The expenditure also covers the expenditures of Thai nationals abroad as tourists and the expenditures of the family of a foreigner who is working for a private company or a non-profit organization in Thailand.

302 Government consumption expenditure

Government consumption expenditures cover all current expenditures of government for goods and services, including those for the police and military forces. Expenditures of Royal household are also included. However, consumption expenditures of public enterprises which are profit-making are not included.

303 Gross domestic fixed capital formation

Gross domestic fixed capital formation includes fixed assets such as land, buildings, machinery, and equipment belonging to households, government, and private enterprise except those for military use. Public infrastructure such as roads, dams and power stations are also included. However, installation costs of equipment and machinery are not covered.

304 Increase in stock

Stocks or inventories comprise the followings: finished products stored in producers' factories or warehouses, unused raw materials purchased by producers, semi processed products and products on processing lines and marketable stocks held by wholesalers and retailers. Stocks kept by households are not included.

305 Export

In the input-output table at purchasers' prices, exports were valued at f.o.b. prices. As for producers' prices, exports were valued by subtracting trade margins and transport costs from f.o.b. process.

306 Special exports

Special exports cover non-merchandised goods and services which are not included in the official export statistics. Item which are included here are freight and insurance related to export, expenditures of foreign tourists in Thailand and related transportation cost, expenditures of foreign government organization, international organizations and families of diplomats,

expenditures of foreign military bases, other service charges which are paid by foreigners and estimated smuggling.

309 Total final demand

This is the sum of codes 301 to 306.

310 Total demand

This is the sum of codes 190 and 309

401 Imports

Imports were valued at c.i.f. process plus tariff. However, for valuation at domestic producers' prices, the transport costs and insurance paid by the Thai importers were subtracted to avoid double counting. A special treatment was used here. The redundant transport costs and insurance were regarded as special exports and are treated in the special export sector.

402 Import duty

Customs duty on imports is included under this code.

403 Import tax

The Import tax includes both import sales tax and municipal tax on imported.

404 Special imports

As in the case special exports, special imports are non-merchandised goods and services which are not covered in the official trade statistics, e.g., expenditures of Thai nationals abroad, expenditure of Thai government organizations and of the families of Thai diplomats outside Thailand and estimated smuggling into Thailand.

409 Total imports

This is the sum of codes 401 to 404.

501 Wholesale trade margin

Wholesale trade margin is margin of goods from factory toward retail trade.

502 Retail trade margin

Retail trade margin is margin of goods from retail toward household consumption.

503 Transport cost

The transport costs are value of transport goods process from factory toward consumer.

509 Total trade margin and transport costs

This is the sum of codes 501 to 503.

600 Control total

This is sum of total intermediate transactions and final demands which indicates the output distribution of the table and is equal to codes 190 + 309 - 409 - 509.

700 Total supply

The total supply is equal to codes 600 + 409 + 509.