

A Preview of the 1997 Benchmark Input-Output Accounts

New Detailed and Summary Industries

In December 2002, BEA will release the 1997 benchmark input-output (I-O) accounts of the United States, the ninth in a series of benchmark accounts. The last benchmark accounts were for the year 1992 and were released in November 1997.

The list of industries provided with this note represents the level of detail that will be used in the presentation of the 1997 benchmark I-O accounts. As reported in a note in the December 2001 *SURVEY OF CURRENT BUSINESS*, the 1997 benchmark accounts will present industries on the basis of the 1997 North American Industry Classification System (NAICS), which has replaced the 1987 Standard Industrial Classification (SIC) system for the collection and presentation of industry data.¹ The NAICS-based I-O industry classification system differs in structure and format from that used for the 1992 and earlier benchmark accounts.²

The 1997 benchmark I-O accounts on the NAICS basis and the 1992 benchmark I-O accounts on the SIC basis cover about the same number of detailed industries, but they differ in their coverage of goods-producing industries and services-providing industries (see the accompanying table).³ The larger number of services industries in the 1997 benchmark accounts reflects both

the increased information that is now available about these industries and the reclassification of some industries from goods-producing sectors to services-providing sectors by NAICS.

Aggregation level	1992 benchmark I-O	1997 benchmark I-O
Total detailed industries.....	493	490
Goods producing	407	389
Services providing.....	86	101
Total summary industries	93	130
Goods producing	62	69
Services providing.....	31	61

Table A, which follows, provides a list of the I-O industries and their NAICS codes. The summary industries are shown in bold print, and the detailed industries are shown in regular print.

The NAICS-based I-O accounts described here and the SIC-based I-O accounts that are being superseded are sometimes called alternative I-O accounts.⁴ For 1997, as in the past, BEA will also produce a second set of I-O accounts that are sometimes called traditional I-O accounts. In the 1997 traditional I-O accounts, further changes to the NAICS industries that have differing and distinctive production processes will be made. For example, in the traditional accounts, lodging services and food and beverage services that are provided by hotels and that are presented together in the alternative I-O accounts will be separated, and food and beverage services will be presented with the food and beverage industry. Thus, even though NAICS is a production-based classification system, further isolation of industries with distinguishable production processes is necessary to facilitate Leontief-type analysis, such as the calculation of total input requirements (direct and indirect) for each industry from changes in final demand.

1. For BEA's schedule of conversion, see John R. Kort, "The North American Industry Classification System in BEA's Economic Accounts," *SURVEY 81* (May 2001): 12. For details about the differences between the 1987 Standard Industrial Classification system and the 1997 NAICS, see the Census Bureau's Web site at <www.census.gov>.

2. Karen J. Horowitz and Stephanie H. McCulla, "Upcoming Changes in the NAICS-Based 1997 Benchmark Input-Output Accounts," *SURVEY 81* (December 2001): 71-73.

3. Goods-producing sectors consist of agriculture, forestry, fishing and hunting; mining; construction; and manufacturing. Services-providing sectors consist of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance and insurance; real estate and rental and leasing; professional and technical services; management of companies and enterprises; administrative and waste services; educational services; health care and social assistance; arts, entertainment, and recreation; accommodation and food services; other services, except public administration; and government industries. Some industries that were classified as goods producing in the SIC system are now classified as services providing in NAICS. For example, printing and publishing was classified as a goods-producing manufacturing industry in the SIC system, but is now classified as a services-providing information industry. For more information on the NAICS and the changes in industry classification, see Executive Office of the President, Office of Management and Budget, *North American Industry Classification System, United States, 1997* (Lanham, MD: Bernan Press).

4. For a description of the traditional and alternative tables provided for the 1992 benchmark I-O accounts, see *Benchmark Input-Output Accounts of the United States, 1992* (September 1998): M-6, or go to <www.bea.gov> and click on "Industry: Articles."

Ann M. Lawson and Karen J. Horowitz prepared the note.

Table A. Industries in the 1997 Benchmark Input-Output Accounts

The titles in boldface represent the industries used for the summary version of the 1997 tables. An asterisk following a North American Industry Classification System (NAICS) code indicates that the NAICS industry is included in more than one I-O industry.

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
AGRICULTURE, FORESTRY, FISHING AND HUNTING		MANUFACTURING	
1110 Crop production		3110 Food manufacturing	
1111A0 Oilseed farming.....	11111, 11112	311111 Dog and cat food manufacturing.....	311111
1111B0 Grain farming.....	11113, 11114, 11115, 11116, 11119	311119 Other animal food manufacturing.....	311119
111200 Vegetable and melon farming.....	1112	311211 Flour milling.....	311211
1113A0 Fruit farming.....	11131, 11132, 111331-4, 111336, 111339	311212 Rice milling.....	311212
111335 Tree nut farming.....	111335	311213 Malt manufacturing.....	311213
111400 Greenhouse and nursery production.....	1114	311221 Wet corn milling.....	311221
111910 Tobacco farming.....	11191	311222 Soybean processing.....	311222
111920 Cotton farming.....	11192	311223 Other oilseed processing.....	311223
1119A0 Sugarcane and sugar beet farming.....	11193, 111991	311225 Fats and oils refining and blending.....	311225
1119B0 All other crop farming.....	11194, 111992, 111998	311230 Breakfast cereal manufacturing.....	31123
1120 Animal production		311310 Sugar manufacturing.....	31131
112100 Cattle ranching and farming.....	1121	311320 Confectionery manufacturing from cacao beans.....	31132
112300 Poultry and egg production.....	1123	311330 Confectionery manufacturing from purchased chocolate.....	31133
112A00 Animal production, except cattle and poultry and eggs.....	1122, 1124, 1125, 1129	311340 Nonchocolate confectionery manufacturing.....	31134
1130 Forestry and logging		311410 Frozen food manufacturing.....	31141
113A00 Forest nurseries, forest products, and timber tracts.....	1131, 1132	311420 Fruit and vegetable canning and drying.....	31142
113300 Logging.....	1133	311511 Fluid milk manufacturing.....	311511
1140 Fishing, hunting and trapping		311512 Creamery butter manufacturing.....	311512
114100 Fishing.....	1141	311513 Cheese manufacturing.....	311513
114200 Hunting and trapping.....	1142	311514 Dry, condensed, and evaporated dairy products.....	311514
1150 Agriculture and forestry support activities		311520 Ice cream and frozen dessert manufacturing.....	31152
115000 Agriculture and forestry support activities.....	115	311611 Animal, except poultry, slaughtering.....	311611
MINING		311612 Meat processed from carcasses.....	311612
2110 Oil and gas extraction		311613 Rendering and meat byproduct processing.....	311613
211000 Oil and gas extraction.....	211	311615 Poultry processing.....	311615
2121 Coal mining		311700 Seafood product preparation and packaging.....	3117
212100 Coal mining.....	2121	31181A Bread and bakery product, except frozen, manufacturing.....	311811-2
2122 Metal ores mining		311813 Frozen cakes and other pastries manufacturing.....	311813
212210 Iron ore mining.....	21221	311821 Cookie and cracker manufacturing.....	311821
212230 Copper, nickel, lead, and zinc mining.....	21223	311822 Mixes and dough made from purchased flour.....	311822
2122A0 Gold, silver, and other metal ore mining.....	21222, 21229	311823 Dry pasta manufacturing.....	311823
2123 Nonmetallic mineral mining and quarrying		311830 Tortilla manufacturing.....	31183
212310 Stone mining and quarrying.....	21231	311911 Roasted nuts and peanut butter manufacturing.....	311911
212320 Sand, gravel, clay, and refractory mining.....	21232	311919 Other snack food manufacturing.....	311919
212390 Other nonmetallic mineral mining.....	21239	311920 Coffee and tea manufacturing.....	31192
2130 Support activities for mining		311930 Flavoring syrup and concentrate manufacturing.....	31193
213111 Drilling oil and gas wells.....	213111	311941 Mayonnaise, dressing, and sauce manufacturing.....	311941
213112 Support activities for oil and gas operations.....	213112	311942 Spice and extract manufacturing.....	311942
21311A Support activities for other mining.....	213113-5	311990 All other food manufacturing.....	31199
UTILITIES		3121 Beverage manufacturing	
2211 Power generation and supply		312110 Soft drink and ice manufacturing.....	31211
221100 Power generation and supply.....	2211	312120 Breweries.....	31212
2212 Natural gas distribution		312130 Wineries.....	31213
221200 Natural gas distribution.....	2212	312140 Distilleries.....	31214
2213 Water, sewage and other systems		3122 Tobacco manufacturing	
221300 Water, sewage and other systems.....	2213	312210 Tobacco stemming and redrying.....	31221
CONSTRUCTION		312221 Cigarette manufacturing.....	312221
2301 New residential construction		312229 Other tobacco product manufacturing.....	312229
230110 New residential 1-unit structures, nonfarm.....	23*	3130 Textile mills	
230120 New multifamily housing structures, nonfarm.....	23*	313100 Fiber, yarn, and thread mills.....	3131
230130 New residential additions and alterations, nonfarm.....	23*	313210 Broadwoven fabric mills.....	31321
230140 New farm housing units and additions and alterations.....	23*	313220 Narrow fabric mills and schiffli embroidery.....	31322
2302 New nonresidential construction		313230 Nonwoven fabric mills.....	31323
230210 Manufacturing and industrial buildings.....	23*	313240 Knit fabric mills.....	31324
230220 Commercial and institutional buildings.....	23*	313310 Textile and fabric finishing mills.....	31331
230230 Highway, street, bridge, and tunnel construction.....	23*	313320 Fabric coating mills.....	31332
230240 Water, sewer, and pipeline construction.....	23*	3140 Textile product mills	
230250 Other new construction.....	23*	314110 Carpet and rug mills.....	31411
2303 Maintenance and repair construction		314120 Curtain and linen mills.....	31412
230310 Maintenance and repair of farm and nonfarm residential structures.....	23*	314910 Textile bag and canvas mills.....	31491
230320 Maintenance and repair of nonresidential buildings.....	23*	314992 Tire cord and tire fabric mills.....	314992
230330 Maintenance and repair of highways, streets, bridges, and tunnels.....	23*	31499A Other miscellaneous textile product mills.....	314991, 314999
230340 Other maintenance and repair construction.....	23*	3150 Apparel manufacturing	
		315111 Sheer hosiery mills.....	315111
		315119 Other hosiery and sock mills.....	315119
		315190 Other apparel knitting mills.....	31519
		315200 Cut and sew apparel manufacturing.....	3152
		315900 Accessories and other apparel manufacturing.....	3159
		3160 Leather and allied product manufacturing	
		316100 Leather and hide tanning and finishing.....	3161
		316200 Footwear manufacturing.....	3162
		316900 Other leather product manufacturing.....	3169
		3210 Wood product manufacturing	
		321113 Sawmills.....	321113
		321114 Wood preservation.....	321114
		32121A Veneer and plywood manufacturing.....	321211-2

Table A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title		Related 1997 NAICS codes	I-O industry number and title		Related 1997 NAICS codes
32121B	Engineered wood member and truss manufacturing.....	321213-4	326192	Resilient floor covering manufacturing	326192
321219	Reconstituted wood product manufacturing	321219	32619A	Plastics plumbing fixtures and all other plastics products	326191, 326199
321911	Wood windows and door manufacturing	321911	326210	Tire manufacturing	32621
321912	Cut stock, resawing lumber, and planing	321912	326220	Rubber and plastics hose and belting manufacturing	32622
321918	Other millwork, including flooring	321918	326290	Other rubber product manufacturing	32629
321920	Wood container and pallet manufacturing	32192			
321991	Manufactured home, mobile home, manufacturing	321991	3270 Nonmetallic mineral product manufacturing		
321992	Prefabricated wood building manufacturing	321992	327111	Vitreous china plumbing fixture manufacturing	327111
321999	Miscellaneous wood product manufacturing	321999	327112	Vitreous china and earthenware articles manufacturing	327112
3221 Pulp, paper, and paperboard mills			327113	Porcelain electrical supply manufacturing	327113
322110	Pulp mills	32211	327121	Brick and structural clay tile manufacturing	327121
3221A0	Paper and paperboard mills	32212, 32213	327122	Ceramic wall and floor tile manufacturing	327122
3222 Converted paper product manufacturing			32712A	Clay refractory and other structural clay products	327123-4
322210	Paperboard container manufacturing	32221	327125	Nonclay refractory manufacturing	327125
32222A	Coated and laminated paper and packaging materials	322221-2	327213	Glass container manufacturing	327213
32222B	Coated and uncoated paper bag manufacturing	322223-4	32721A	Glass and glass products, except glass containers	327211-2, 327215
322225	Flexible packaging foil manufacturing	322225	327310	Cement manufacturing	32731
322226	Surface-coated paperboard manufacturing	322226	327320	Ready-mix concrete manufacturing	32732
322231	Die-cut paper office supplies manufacturing	322231	327331	Concrete block and brick manufacturing	327331
322232	Envelope manufacturing	322232	327332	Concrete pipe manufacturing	327332
322233	Stationery and related product manufacturing	322233	327390	Other concrete product manufacturing	32739
322291	Sanitary paper product manufacturing	322291	327410	Lime manufacturing	32741
322299	All other converted paper product manufacturing	322299	327420	Gypsum product manufacturing	32742
3230 Printing and related support activities			327910	Abrasive product manufacturing	32791
32311A	Commercial printing	323110-5, 323119	327991	Cut stone and stone product manufacturing	327991
323116	Manifold business forms printing	323116	327992	Ground or treated minerals and earths manufacturing	327992
323117	Books printing	323117	327993	Mineral wool manufacturing	327993
323118	Blankbook and looseleaf binder manufacturing	323118	327999	Miscellaneous nonmetallic mineral products	327999
323121	Tradebinding and related work	323121	331A Iron and steel mills and manufacturing from purchased steel		
323122	Prepress services	323122	331111	Iron and steel mills	331111
3240 Petroleum and coal products manufacturing			331112	Ferroalloy and related product manufacturing	331112
324110	Petroleum refineries	32411	331210	Iron, steel pipe and tube from purchased steel	33121
324121	Asphalt paving mixture and block manufacturing	324121	331221	Rolled steel shape manufacturing	331221
324122	Asphalt shingle and coating materials manufacturing	324122	331222	Steel wire drawing	331222
324191	Petroleum lubricating oil and grease manufacturing	324191	331B Nonferrous metal production and processing		
324199	All other petroleum and coal products manufacturing	324199	331311	Alumina refining	331311
3251 Basic chemical manufacturing			331312	Primary aluminum production	331312
325110	Petrochemical manufacturing	32511	331314	Secondary smelting and alloying of aluminum	331314
325120	Industrial gas manufacturing	32512	331315	Aluminum sheet, plate, and foil manufacturing	331315
325130	Synthetic dye and pigment manufacturing	32513	331316	Aluminum extruded product manufacturing	331316
325180	Other basic inorganic chemical manufacturing	32518	331319	Other aluminum rolling and drawing	331319
325190	Other basic organic chemical manufacturing	32519	331411	Primary smelting and refining of copper	331411
3252 Resin, rubber, and artificial fibers manufacturing			331419	Primary nonferrous metal, except copper and aluminum	331419
325211	Plastics material and resin manufacturing	325211	331421	Copper rolling, drawing, and extruding	331421
325212	Synthetic rubber manufacturing	325212	331422	Copper wire, except mechanical, drawing	331422
325221	Cellulosic organic fiber manufacturing	325221	331423	Secondary processing of copper	331423
325222	Noncellulosic organic fiber manufacturing	325222	331491	Nonferrous metal, except copper and aluminum, shaping	331491
3253 Agricultural chemical manufacturing			331492	Secondary processing of other nonferrous	331492
325311	Nitrogenous fertilizer manufacturing	325311	3315 Foundries		
325312	Phosphatic fertilizer manufacturing	325312	331510	Ferrous metal foundries	33151
325314	Fertilizer, mixing only, manufacturing	325314	33152A	Aluminum foundries	331521, 331524
325320	Pesticide and other agricultural chemical manufacturing	32532	33152B	Nonferrous foundries, except aluminum	331522, 331525, 331528
3254 Pharmaceutical and medicine manufacturing			3321 Forging and stamping		
325400	Pharmaceutical and medicine manufacturing	3254	332111	Iron and steel forging	332111
3255 Paint, coating, and adhesive manufacturing			332112	Nonferrous forging	332112
325510	Paint and coating manufacturing	32551	332114	Custom roll forming	332114
325520	Adhesive manufacturing	32552	33211A	All other forging and stamping	332115-7
3256 Soap, cleaning compound, and toiletry manufacturing			3322 Cutlery and handtool manufacturing		
325611	Soap and other detergent manufacturing	325611	332211	Cutlery and flatware, except precious, manufacturing	332211
325612	Polish and other sanitation good manufacturing	325612	332212	Hand and edge tool manufacturing	332212
325613	Surface active agent manufacturing	325613	332213	Saw blade and handsaw manufacturing	332213
325620	Toilet preparation manufacturing	32562	332214	Kitchen utensil, pot, and pan manufacturing	332214
3259 Other chemical product and preparation manufacturing			3323 Architectural and structural metals manufacturing		
325910	Printing ink manufacturing	32591	332311	Prefabricated metal buildings and components	332311
325920	Explosives manufacturing	32592	332312	Fabricated structural metal manufacturing	332312
325991	Custom compounding of purchased resins	325991	332313	Plate work manufacturing	332313
325992	Photographic film and chemical manufacturing	325992	332321	Metal window and door manufacturing	332321
325998	Other miscellaneous chemical product manufacturing	325998	332322	Sheet metal work manufacturing	332322
3260 Plastics and rubber products manufacturing			332323	Ornamental and architectural metal work manufacturing	332323
326110	Plastics packaging materials, film and sheet	32611	3324 Boiler, tank, and shipping container manufacturing		
326120	Plastics pipe, fittings, and profile shapes	32612	332410	Power boiler and heat exchanger manufacturing	33241
326130	Laminated plastics plate, sheet, and shapes	32613	332420	Metal tank, heavy gauge, manufacturing	33242
3261A0	Foam product manufacturing	32614, 32615	332430	Metal can, box, and other container manufacturing	33243
326160	Plastics bottle manufacturing	32616	332A Ordnance and accessories manufacturing		
			33299A	Ammunition manufacturing	332992-3
			332994	Small arms manufacturing	332994
			332995	Other ordnance and accessories manufacturing	332995

Table A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
332B Other fabricated metal product manufacturing		3344 Semiconductor and electronic component manufacturing	
332500 Hardware manufacturing.....	3325	334411 Electron tube manufacturing.....	334411
332600 Spring and wire product manufacturing.....	3326	334413 Semiconductors and related device manufacturing.....	334413
332710 Machine shops.....	33271	33441A All other electronic component manufacturing.....	334412, 334414–9
332720 Turned product and screw, nut, and bolt manufacturing.....	33272		
332811 Metal heat treating.....	332811	3345 Electronic instrument manufacturing	
332812 Metal coating and nonprecious engraving.....	332812	334510 Electromedical apparatus manufacturing.....	334510
332813 Electroplating, anodizing, and coloring metal.....	332813	334511 Search, detection, and navigation instruments.....	334511
332910 Metal valve manufacturing.....	33291	334512 Automatic environmental control manufacturing.....	334512
332991 Ball and roller bearing manufacturing.....	332991	334513 Industrial process variable instruments.....	334513
332996 Fabricated pipe and pipe fitting manufacturing.....	332996	334514 Totalizing fluid meters and counting devices.....	334514
332997 Industrial pattern manufacturing.....	332997	334515 Electricity and signal testing instruments.....	334515
332998 Enameled iron and metal sanitary ware manufacturing.....	332998	334516 Analytical laboratory instrument manufacturing.....	334516
332999 Miscellaneous fabricated metal product manufacturing.....	332999	334517 Irradiation apparatus manufacturing.....	334517
		33451A Watch, clock, and other measuring and controlling device manufacturing.....	334518–9
3331 Agriculture, construction, and mining machinery		3346 Magnetic media manufacturing and reproducing	
333111 Farm machinery and equipment manufacturing.....	333111	334611 Software reproducing.....	334611
333112 Lawn and garden equipment manufacturing.....	333112	334612 Audio and video media reproduction.....	334612
333120 Construction machinery manufacturing.....	33312	334613 Magnetic and optical recording media manufacturing.....	334613
333131 Mining machinery and equipment manufacturing.....	333131		
333132 Oil and gas field machinery and equipment.....	333132	3351 Electric lighting equipment manufacturing	
		335110 Electric lamp bulb and part manufacturing.....	33511
3332 Industrial machinery manufacturing		335120 Lighting fixture manufacturing.....	33512
333210 Sawmill and woodworking machinery.....	33321		
333220 Plastics and rubber industry machinery.....	33322	3352 Household appliance manufacturing	
333291 Paper industry machinery manufacturing.....	333291	335211 Electric housewares and household fan manufacturing.....	335211
333292 Textile machinery manufacturing.....	333292	335212 Household vacuum cleaner manufacturing.....	335212
333293 Printing machinery and equipment manufacturing.....	333293	335221 Household cooking appliance manufacturing.....	335221
333294 Food product machinery manufacturing.....	333294	335222 Household refrigerator and home freezer manufacturing.....	335222
333295 Semiconductor machinery manufacturing.....	333295	335224 Household laundry equipment manufacturing.....	335224
333298 All other industrial machinery manufacturing.....	333298	335228 Other major household appliance manufacturing.....	335228
3333 Commercial and service industry machinery		3353 Electrical equipment manufacturing	
33331A Automatic vending, commercial laundry and drycleaning machinery.....	333311–2	335311 Electric power and specialty transformer manufacturing.....	335311
333313 Office machinery manufacturing.....	333313	335312 Motor and generator manufacturing.....	335312
333314 Optical instrument and lens manufacturing.....	333314	335313 Switchgear and switchboard apparatus manufacturing.....	335313
333315 Photographic and photocopying equipment manufacturing.....	333315	335314 Relay and industrial control manufacturing.....	335314
333319 Other commercial and service machinery manufacturing.....	333319		
3334 HVAC and commercial refrigeration equipment		3359 Other electrical equipment and component manufacturing	
333411 Air purification equipment manufacturing.....	333411	335911 Storage battery manufacturing.....	335911
333412 Industrial and commercial fan and blower manufacturing.....	333412	335912 Primary battery manufacturing.....	335912
333414 Heating equipment, except warm air furnaces.....	333414	335921 Fiber optic cable manufacturing.....	335921
333415 AC, refrigeration, and forced air heating.....	333415	335929 Other communication and energy wire manufacturing.....	335929
		335930 Wiring device manufacturing.....	33593
3335 Metalworking machinery manufacturing		335991 Carbon and graphite product manufacturing.....	335991
333511 Industrial mold manufacturing.....	333511	335999 Miscellaneous electrical equipment manufacturing.....	335999
333512 Metal cutting machine tool manufacturing.....	333512		
333513 Metal forming machine tool manufacturing.....	333513	3361 Motor vehicle manufacturing	
333514 Special tool, die, jig, and fixture manufacturing.....	333514	336110 Automobile and light truck manufacturing.....	33611
333515 Cutting tool and machine tool accessory manufacturing.....	333515	336120 Heavy duty truck manufacturing.....	33612
33351A Rolling mill and other metalworking machinery.....	333516, 333518		
3336 Turbine and power transmission equipment manufacturing		336A Motor vehicle body, trailer, and parts manufacturing	
333611 Turbine and turbine generator set units manufacturing.....	333611	336211 Motor vehicle body manufacturing.....	336211
33361A Speed changers and mechanical power transmission equipment.....	333612–3	336212 Truck trailer manufacturing.....	336212
333618 Other engine equipment manufacturing.....	333618	336213 Motor home manufacturing.....	336213
		336214 Travel trailer and camper manufacturing.....	336214
3339 Other general purpose machinery manufacturing		336300 Motor vehicle parts manufacturing.....	3363
333911 Pump and pumping equipment manufacturing.....	333911		
333912 Air and gas compressor manufacturing.....	333912	3364 Aerospace product and parts manufacturing	
333913 Measuring and dispensing pump manufacturing.....	333913	336411 Aircraft manufacturing.....	336411
333921 Elevator and moving stairway manufacturing.....	333921	336412 Aircraft engine and engine parts manufacturing.....	336412
333922 Conveyor and conveying equipment manufacturing.....	333922	336413 Other aircraft parts and equipment.....	336413
333923 Overhead cranes, hoists, and monorail systems.....	333923	336414 Guided missile and space vehicle manufacturing.....	336414
333924 Industrial truck, trailer, and stacker manufacturing.....	333924	33641A Propulsion units and parts for space vehicles and guided missiles...	336415, 336419
333991 Power-driven handtool manufacturing.....	333991		
333992 Welding and soldering equipment manufacturing.....	333992	336B Other transportation equipment manufacturing	
333993 Packaging machinery manufacturing.....	333993	336500 Railroad rolling stock manufacturing.....	3365
333994 Industrial process furnace and oven manufacturing.....	333994	336611 Ship building and repairing.....	336611
333995 Fluid power cylinder and actuator manufacturing.....	333995	336612 Boat building.....	336612
333996 Fluid power pump and motor manufacturing.....	333996	336991 Motorcycle, bicycle, and parts manufacturing.....	336991
33399A Scales, balances, and miscellaneous general purpose machinery.....	333997, 333999	336992 Military armored vehicles and tank parts manufacturing.....	336992
		336999 All other transportation equipment manufacturing.....	336999
3341 Computer and peripheral equipment manufacturing		3370 Furniture and related product manufacturing	
334111 Electronic computer manufacturing.....	334111	337110 Wood kitchen cabinet and countertop manufacturing.....	33711
334112 Computer storage device manufacturing.....	334112	337121 Upholstered household furniture manufacturing.....	337121
334113 Computer terminal manufacturing.....	334113	337122 Nonupholstered wood household furniture manufacturing.....	337122
334119 Other computer peripheral equipment manufacturing.....	334119	337124 Metal household furniture manufacturing.....	337124
		337127 Institutional furniture manufacturing.....	337127
334A Audio, video, and communications equipment manufacturing		33712A Other household and institutional furniture.....	337125, 337129
334210 Telephone apparatus manufacturing.....	33421	337211 Wood office furniture manufacturing.....	337211
334220 Broadcast and wireless communications equipment.....	33422	337212 Custom architectural woodwork and millwork.....	337212
334290 Other communications equipment manufacturing.....	33429	337214 Office furniture, except wood, manufacturing.....	337214
334300 Audio and video equipment manufacturing.....	3343		

Table A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title		Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
337215	Showcases, partitions, shelving, and lockers.....	337215	5131 Radio and television broadcasting	
337910	Mattress manufacturing.....	33791	513100 Radio and television broadcasting.....	5131
337920	Blind and shade manufacturing.....	33792	5132 Cable networks and program distribution	
3391 Medical equipment and supplies manufacturing			513200 Cable networks and program distribution	5132
339111	Laboratory apparatus and furniture manufacturing.....	339111	5133 Telecommunications	
339112	Surgical and medical instrument manufacturing.....	339112	513300 Telecommunications	5133
339113	Surgical appliance and supplies manufacturing.....	339113	5141 Information services	
339114	Dental equipment and supplies manufacturing.....	339114	514100 Information services	5141
339115	Ophthalmic goods manufacturing.....	339115	5142 Data processing services	
339116	Dental laboratories.....	339116	514200 Data processing services	5142
3399 Other miscellaneous manufacturing				
339910	Jewelry and silverware manufacturing.....	33991	FINANCE AND INSURANCE	
339920	Sporting and athletic goods manufacturing	33992	52A0 Monetary authorities, credit intermediation and related activities	
339930	Doll, toy, and game manufacturing	33993	52A000 Monetary authorities and depository credit intermediation	521, 5221
339940	Office supplies, except paper, manufacturing.....	33994	522A00 Nondepository credit intermediation and related activities.....	5222, 5223
339950	Sign manufacturing.....	33995	5230 Securities, commodity contracts, investments	
339991	Gasket, packing, and sealing device manufacturing.....	339991	523000 Securities, commodity contracts, investments.....	523
339992	Musical instrument manufacturing	339992	5240 Insurance carriers and related activities	
339994	Broom, brush, and mop manufacturing	339994	524100 Insurance carriers	5241
339995	Burial casket manufacturing.....	339995	524200 Insurance agencies, brokerages, and related.....	5242
33999A	Buttons, pins, and all other miscellaneous manufacturing.....	339993, 339999	5250 Funds, trusts, and other financial vehicles	
			525000 Funds, trusts, and other financial vehicles	525
4200 Wholesale trade				
420000	Wholesale trade	42	REAL ESTATE AND RENTAL AND LEASING	
			5310 Real estate	
4A00 Retail trade			531000 Real estate.....	531
4A0000	Retail trade.....	44, 45	S008 Owner-occupied dwellings	
			S00800 Owner-occupied dwellings	
TRANSPORTATION AND WAREHOUSING, EXCLUDING POSTAL SERVICE			5321 Automotive equipment rental and leasing	
4810 Air transportation			532100 Automotive equipment rental and leasing	5321
481000	Air transportation.....	481	532A Consumer goods and general rental centers	
4820 Rail transportation			532A00 General and consumer goods rental except video tapes and discs....	53221, 53222, 53229, 5323
482000	Rail transportation	482	532230 Video tape and disc rental	53223
4830 Water transportation			5324 Machinery and equipment rental and leasing	
483000	Water transportation.....	483	532400 Machinery and equipment rental and leasing	5324
4840 Truck transportation			5330 Lessors of nonfinancial intangible assets	
484000	Truck transportation.....	484	533000 Lessors of nonfinancial intangible assets.....	533
4850 Transit and ground passenger transportation				
485000	Transit and ground passenger transportation	485	PROFESSIONAL AND TECHNICAL SERVICES	
4860 Pipeline transportation			5411 Legal services	
486000	Pipeline transportation.....	486	541100 Legal services	5411
48A0 Scenic and sightseeing transportation and support activities for transportation			5412 Accounting and bookkeeping services	
48A000	Scenic and sightseeing transportation and support activities for transportation	487, 488	541200 Accounting and bookkeeping services	5412
4920 Couriers and messengers			5413 Architectural and engineering services	
492000	Couriers and messengers	492	541300 Architectural and engineering services.....	5413
4930 Warehousing and storage			5414 Specialized design services	
493000	Warehousing and storage.....	493	541400 Specialized design services.....	5414
			5415 Computer systems design and related services	
5111 Newspaper, book, and directory publishers			541511 Custom computer programming services.....	541511
511110	Newspaper publishers.....	51111	541512 Computer systems design services.....	541512
511120	Periodical publishers.....	51112	54151A Other computer related services, including facilities management....	541513, 541519
511130	Book publishers	51113	5416 Management and technical consulting services	
5111A0	Database, directory, and other publishers.....	51114, 51119	541610 Management consulting services	54161
5112 Software publishers			5416A0 Environmental and other technical consulting services.....	54162, 54169
511200	Software publishers	5112	5417 Scientific research and development services	
5120 Motion picture and sound recording industries			541700 Scientific research and development services.....	5417
512100	Motion picture and video industries.....	5121	5418 Advertising and related services	
512200	Sound recording industries.....	5122	541800 Advertising and related services.....	5418

Table A. Industries in the 1997 Benchmark Input-Output Accounts—Continued

I-O industry number and title	Related 1997 NAICS codes	I-O industry number and title	Related 1997 NAICS codes
5419 Other professional and technical services		711500 Independent artists, writers, and performers	7115
541920 Photographic services	54192	712000 Museums, historical sites, zoos, and parks	712
541940 Veterinary services	54194		
5419A0 All other miscellaneous professional and technical services	54191, 54193, 54199	7130 Amusements, gambling, and recreation	
		713940 Fitness and recreational sports centers	71394
		713950 Bowling centers	71395
		713A00 Other amusement, gambling, and recreation industries	7131, 7132, 71391, 71392, 71393, 71399
MANAGEMENT OF COMPANIES AND ENTERPRISES			
5500 Management of companies and enterprises			
550000 Management of companies and enterprises	55	ACCOMMODATION AND FOOD SERVICES	
		7210 Accommodation	
ADMINISTRATIVE AND WASTE SERVICES		7211A0 Hotels and motels, including casino hotels	72111, 72112
5613 Employment services		721A00 Other accommodations	72119, 7212, 7213
561300 Employment services	5613		
		7220 Food services and drinking places	
5615 Travel arrangement and reservation services		722000 Food services and drinking places	722
561500 Travel arrangement and reservation services	5615		
		OTHER SERVICES, EXCEPT PUBLIC ADMINISTRATION	
561A All other administrative and support services		8111 Automotive repair and maintenance	
561100 Office administrative services	5611	8111A0 Automotive repair and maintenance, except car washes	81111, 81112, 811191, 811198
561200 Facilities support services	5612	811192 Car washes	811192
561400 Business support services	5614		
561600 Investigation and security services	5616	811A Electronic, commercial, and household goods repair	
561700 Services to buildings and dwellings	5617	811200 Electronic equipment repair and maintenance	8112
561900 Other support services	5619	811300 Commercial machinery repair and maintenance	8113
		811400 Household goods repair and maintenance	8114
5620 Waste management and remediation services			
562000 Waste management and remediation services	562	8120 Personal and laundry services	
		812100 Personal care services	8121
EDUCATIONAL SERVICES		812200 Death care services	8122
6100 Educational services		812300 Drycleaning and laundry services	8123
611100 Elementary and secondary schools	6111	812900 Other personal services	8129
611A00 Colleges, universities, and junior colleges	6112, 6113		
611B00 Other educational services	6114, 6115, 6116, 6117	813A Religious, grantmaking and giving, and social advocacy organizations	
		813100 Religious organizations	8131
HEALTH CARE AND SOCIAL ASSISTANCE		813A00 Grantmaking and giving and social advocacy organizations	8132, 8133
6210 Ambulatory health care services			
621A00 Offices of physicians, dentists, and other health practitioners	6211, 6212, 6213	813B Civic, social, professional and similar organizations	
621600 Home health care services	6216	813B00 Civic, social, professional and similar organizations	8134, 8139
621B00 Other ambulatory health care services	6214, 6215, 6219		
		8140 Private households	
6220 Hospitals		814000 Private households	814
622000 Hospitals	622		
		GOVERNMENT INDUSTRIES	
6230 Nursing and residential care facilities		S001 Federal Government enterprises	
623000 Nursing and residential care facilities	623	491000 Postal service	491
		S00101 Federal electric utilities	
6240 Social assistance		S00102 Other Federal Government enterprises	
624400 Child day care services	6244		
624A00 Social assistance, except child day care services	6241, 6242, 6243	S002 State and local government enterprises	
		S00201 State and local government passenger transit	
ARTS, ENTERTAINMENT, AND RECREATION		S00202 State and local government electric utilities	
71A0 Performing arts, spectator sports, museums, zoos, and parks		S00203 Other State and local government enterprises	
711100 Performing arts companies	7111		
711200 Spectator sports	7112	S005 General government industry	
711A00 Promoters of performing arts and sports and agents for public figures	7113, 7114	S00500 General government industry	