IMF Committee on Balance of Payments Statistics and OECD Workshop on International Investment Statistics

DIRECT INVESTMENT TECHNICAL EXPERT GROUP

Background Paper to Issue #3, Indirect Investment: FCS, USM, or 50% Ownership

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Background Paper for DITEG Issue #3, Indirect Investment: FCS, USM, or 50% Ownership¹

Introduction

- 1. During the discussion of the different methods for defining direct investment relationships, the representative from the United States offered to explore the feasibility of comparing selected data on U.S. direct investment abroad using three different methods: the method now used by the U.S. Bureau of Economic Analysis (the "US method", henceforth "USM"), which is based on a straight mathematical calculation of direct and indirect ownership percentages; the Fully Consolidated System ("FCS"), which is the method recommended in existing international standards including *BPM5* and the OECD *Benchmark Definition of Foreign Direct Investment*; and a method proposed by the European Union that includes directly owned foreign affiliates, companies that are majority owned by those affiliates, and all other companies below them in a continuous chain of majority ownership ("EUM").
- 2. Each of these methods has strengths and weaknesses. For example, a strength of the FCS is that it is usually regarded as coming closest of all methods to the conceptually correct method of identifying direct investment relationships, but it is difficult for direct investment data users and respondents to understand and employ all elements of this method. A strength of the USM is that it can be readily understood by direct investment data users and respondents, and it is widely believed that results tabulated under this method come quite close to those that would result under the FCS, but it may be considered weaker than the FCS on conceptual grounds. A strength of the EUM is that it is much easier to understand and employ than the other two methods, but a concern expressed about this method is that it may omit sizable amounts of data that (conceptually) should be included in direct investment.
- 3. This paper provides data that may be used in comparing these three methods, by providing tabulations of data for each of the methods. It shows that data on direct investment positions (by country and by industry) are usually similar under all three methods, and that data on foreign

¹ Raymond J. Mataloni, Jr. of the Bureau of Economic Analysis assisted in preparing this background paper and prepared the tabulations of data for the FCS and EUM.

affiliate assets and employment are typically quite similar under the USM and FCS. However, data on affiliate assets and employment under the EUM often differ substantially from data under the USM, especially at the individual country or industry level.

What data items were tabulated

- 4. Based on its data for U.S. direct investment abroad, BEA has now tabulated three data items for purposes of this comparison -- direct investment positions, assets, and employment. Data were generated for 64 individual countries² (as shown in the standard country stub used in many BEA publications) and for 62 industries³ (as shown in BEA's standard industry stub) (see attachments). BEA is unable to release the detailed tabulations for the FCS and EUM because of concerns about confidentiality. In particular, in many cases, only one or a few foreign affiliates account for the entire difference between the USM and the other methods shown, and BEA is therefore concerned about residual disclosure of respondent provided information.
- 5. In preparing its tabulations, BEA manipulated its data to determine the extent to which the USM is more *inclusive* than the other two methods. However, BEA has no data on foreign affiliates covered by the other methods but not by the USM, and so BEA cannot determine the extent that the USM is less inclusive than the other two methods.

Description and general information

6. The BEA tabulations were based on a sample of nonbank foreign affiliates (albeit, a large one covering 79 percent of the position in nonbank foreign affiliates, 78 percent of nonbank affiliate employment, and 85 percent of nonbank affiliate assets), not the universe, of foreign affiliates, representing those for which the necessary chain-of-ownership information was filed on the 2002 BE-11 annual survey of U.S. direct investment abroad. BEA has developed no information that shows whether or not the data omissions resulted in biased results, and so the accompanying tabulations therefore should be used with caution.

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² The word "countries" is used broadly here. It applies to individual countries as well as detailed groups of countries that are not shown separately, such as "other Europe" and "other Africa", but excludes subtotals, such as Europe and Africa.

³ The word "industries" is used broadly here. It applies to individual industries as well as detailed groups of industries that are not shown separately, such as "other chemicals" and wholesale trade of "other durable goods", but excludes subtotals, such as chemicals and wholesale trade.

7. The three methods of defining direct investment differ only in their treatment of indirectly held direct investment enterprises. All three methods consider a directly held foreign firm to be a direct investment enterprise if the equity interest of the direct investor is at least 10%. The USM considers an indirectly held foreign firm to be a direct investment enterprise if the equity interest of the direct investor, calculated by multiplying the equity interests at each tier of ownership, is at least 10%. In the example below, the direct investor's equity interest in all four foreign firms (A, B, C, and D) meets the BEA criterion for direct investment: Foreign Firm A (70%), Foreign Firm B (70% of 45%, or 32%), Foreign Firm C (28%), and Foreign Firm D (11%).

Example of a Chain of Equity Ownership

Parent Firm owns 70% \Rightarrow Foreign Firm A, who owns 45% \Rightarrow Foreign Firm B, who owns 90% \Rightarrow Foreign Firm C, who owns 40% \Rightarrow Foreign Firm D.

In this example, the Parent Firm directly owns 70% of Firm A and it indirectly owns 32% of Firm B (= $70\% \times 45\%$), 28% of Firm C (= $70\% \times 45\% \times 90\%$), and 11% of Firm D ($70\% \times 45\% \times 90\% \times 40\%$).

- 8. The FCS considers an indirectly held foreign firm to be a direct investment enterprise as long as either: (1) there is an unbroken chain of majority ownership between the U.S. direct investor and all higher-tier foreign firms and the penultimate-tier foreign firm has at least a 10-percent equity interest in the foreign firm in question, or (2) after a break in the chain of majority ownership, a foreign firm is within an unbroken chain of majority ownership. In the example, Foreign Firms A and B would qualify under the first criterion and Foreign Firm C would qualify under the second; Foreign Firm D would not be considered a direct investment enterprise because the chain of majority-ownership under Foreign Firm B ends with Foreign Firm C.
- 9. The EUM considers an indirectly held foreign firm to be a direct investment enterprise only if there is an unbroken chain of majority-ownership between the indirectly held foreign firms. In the example, directly held Foreign Firm A would be a direct investment enterprise (because it is owned at least 10% by the direct investor) but none of the indirectly held foreign firms (B, C, or

- D) would be direct investment enterprises (because foreign firm B is not majority owned, it and all of its lower-tier foreign affiliates are not considered to be direct investment enterprises).
- 10. Data under the EUM are a subset of data under the FCS, because the EUM excludes all indirectly held foreign firms that are not majority owned and all firms below them in the chain of ownership, whereas the FCS includes the first indirectly held foreign firm and all majority held foreign firms below them in the chain of ownership. Also, in the tabulations prepared for this paper, data under both the FCS and EUM are subsets of data under the USM (a result that necessarily holds because, as noted above, BEA has no data for affiliates covered by the other methods but not by the USM).
- 11. The differences between the estimates based on the USM, FCS, and EUM vary by data item, by country, and by industry. In the following discussion, when differences between the USM and FCS, or between the USM and EUM, are expressed in percentage terms, they reflect the amount by which data tabulated under the FCS or EUM must be increased, to arrive at the level under the USM.
- 12. The remaining text of this background paper summarizes and highlights data that are presented in the attached tables. Many readers may prefer to quickly scan through this material and focus on the tables themselves.

Differences in Direct Investment Positions

13. At the global level, differences among the estimates using these three methods are small for the direct investment position abroad. The USM results in an estimate that is 0.1 percent higher than that based on the FCS and 1.3 percent higher than that based on the EUM. At lower levels of aggregation (individual countries or individual industries), there are relatively few large differences in direct investment positions under the three methods.

a. Direct Investment Positions: USM compared to FCS

- 14. As noted, across individual countries, the estimates of the position tend to be close, with few exceptions. The difference between the estimates based on the USM and FCS is greater than 5 percent for no countries.
- 15. Across industries, the difference between the estimates based on the USM and FCS is greater than 5 percent for only one of the 62 industries (telecommunications).

b. Direct Investment Positions: USM compared to EUM

- 16. Across countries, the estimates of positions are usually close, but not as close as USM compared to FCS. The percentage difference between the estimates based on the USM and EUM is greater than 5 percent for 6 of the 64 countries (Norway, Turkey, Colombia, Peru, Nigeria, and Hong Kong). It is greater than 15 percent for 4 countries (Turkey, Colombia, Nigeria, and Hong Kong).
- 17. Across industries, the percentage difference between the estimates based on the USM and EUM is greater than 5 percent for 4 of the 62 industries (food manufacturing; furniture and related products manufacturing; management, scientific, and technical consulting; and agriculture, forestry, fishing, and hunting). The difference is greater than 15 percent for 1 industry (agriculture, forestry, fishing, and hunting), but the difference is small in dollar terms.

Differences in assets and employment

18. Differences between the measures of assets and employment under the USM and FCS tend to be small, even at low levels of aggregation (individual countries or individual industries). However, differences in the measures of assets and employment under the USM and EUM tend to be much greater and more widespread, and often exceed 15 percent. Differences between the methods tend to be greater for financial and operating data items such as assets and employment, because, unlike for direct investment equity positions, indirectly held affiliates may play a large role in these data sets. It should be noted that differences by individual country cross-classified by individual industry (such as food manufacturing or wholesale trade of petroleum in a particular country) are likely to be substantially larger, on average, than the differences observed

at higher levels of aggregation, but no comparisons were performed at these very low levels of aggregation.

a. Assets and employment: USM compared to FCS

Assets

19. At the global level, the percentage difference between the estimates of assets based on the USM and FCS is 0.5 percent. Across countries, the percentage difference is greater than 5 percent for 6 of the 64 countries (Belgium, Czech Republic, France, Venezuela, "other countries" in South America, and "other countries" in "Other Western Hemisphere").

20. Across industries, the percentage difference between the estimates of assets based on the USM and FCS is greater than 5 percent for one of the 62 industries (telecommunications).

Employment

21. At the global level, the percentage difference between the estimates of employment based on the USM and FCS is 0.9 percent. Across countries, the percentage difference is greater than 5 percent for 4 of the 64 countries (Belgium, Czech Republic, Venezuela, and "other countries" in Central America). The percentage difference is larger than 15 percent for 2 of these countries (Belgium and Venezuela).

22. Across industries, the percentage difference between the estimates of employment based on the USM and FCS is greater than 5 percent for only one of the 62 industries (telecommunications). The percentage difference for this industry is also larger than 15 percent.

b. Assets and employment: USM compared to EUM

Assets

23. At the global level, the percentage difference between the estimates of assets based on the USM and EUM is 7.4 percent. Across countries, the percentage difference is greater than 5 percent for 39 of the 64 countries (in fact, it is greater than 5 percent for major geographic

regions including Europe; Latin America and Other Western Hemisphere; Africa; Middle East; and Asia and Pacific). The percentage difference is larger than 15 percent for 14 countries (Belgium, Denmark, Luxembourg, Russia, "other Europe", Peru, Venezuela, "other South America", Nigeria, Saudi Arabia, "other Middle East", Australia, Indonesia, and Korea).

24. Across industries, the percentage difference between the estimates of assets based on the USM and EUM is greater than 5 percent for 24 of the 62 industries. The percentage difference is larger than 15 percent for 9 industries (oil and gas extraction; petroleum and coal products manufacturing; manufacturing of agriculture, construction, and mining machinery; "other machinery manufacturing"; wholesale trade of petroleum and petroleum products; broadcasting, cable networks, and program distribution; telecommunications; management, scientific, and technical consulting; and transportation and warehousing).

Employment

- 25. At the global level, the percentage difference between the estimates of employment based on the USM and EUM is 6.4 percent. Across countries, the percentage difference is greater than 5 percent for 30 of the 64 countries. The percentage difference is larger than 15 percent for 8 countries (Belgium, Venezuela, Nigeria, Saudi Arabia, "other Middle East", Australia, Indonesia, and Japan).
- 26. Across industries, the percentage difference between the estimates of employment based on the USM and EUM is greater than 5 percent for 20 of the 62 industries. The percentage difference is larger than 15 percent for 9 industries (oil and gas extraction; manufacturing of beverages and tobacco products; petroleum and coal products manufacturing; manufacturing resins and synthetic rubber, fibers, and filaments; manufacturing of agriculture, construction, and mining machinery; "other machinery manufacturing"; wholesale trade of petroleum and petroleum products; telecommunications; and real estate).

Table 1.--Comparison of Sample Estimates 1 for Selected Items on USM, FCS, and EUM

		Percent Difference Between Sample Estimates							
	0%	5% or	5% to	10% to	15% to	25% to	50% to	100% or	
		less	10%	15%	25%	50%	100%	more	
				Number of	Countries				
USM less FCS ²									
Position	48	16	0	0	0	0	0	0	
Total Assets	37	21	5	1	0	0	0	0	
Total Employment	40	20	1	1	2	0	0	0	
USM less EUM ³									
Position	32	26	1	1	4	0	0	0	
Total Assets	3	22	18	7	2	8	3	1	
Total Employment	7	27	19	3	1	6	0	1	
				Number of	Industries				
USM less FCS ²									
Position	47	14	0	1	0	0	0	0	
Total Assets	36	25	0	1	0	0	0	0	
Total Employment	39	22	0	0	1	0	0	0	
USM less EUM ³									
Position	24	34	2	1	0	0	1	0	
Total Assets	13	26	9	5	4	4	0	1	
Total Employment	13	29	9	2	6	3	0	0	

USM United States Method FCS Fully Consolidated System EUM European Union Method

- 1. The sample estimates (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) cover only affiliates for which the necessary chain-of-ownership information was filed on the 2002 BE-11 annual survey of U.S. direct investment abroad.
- 2. Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
- 3. Equals [(Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 2a.—Comparison of Sample Estimates and BEA Published Universe Estimates for Selected Items on USM, FCS, and EUM, 2002 [Millions of Dollars or Thousands of Employees]

[Millions of Dollars or Thousands of Employees]									
	more	than 3/4 of the	imates for a Large position in, and for which the No	the total asse	ets of, foreign	affiliates)	BEA Publishe	ed Universe Estin	nates for 2002
			BE-11 Annual S						
		USM less FC			USM less EUM		U.S. direct	Total assets	Total
		han 5 Percent			han 5 Percent		investment	of foreign	employment
	Position Position	en Sample Es Assets	Employment	Position Position	en Sample Es Assets	Employment Employment	position abroad	affiliates	by foreign affiliates
All countries					,	 	1,601,414	6,865,705	9,695.9
Canada							170,169	514,250	1,124.1
Europe					-		848,599	4,103,349	4,118.4
Austria							4,514	20,404	31.2
Belgium		,	,		,	_	24,868	172,524	141.5
Czech Republic		-	,		,	-	1,400	9,522	52.8
Denmark		-	-		-	-	6,132	(D)	- L
Finland					· •		1,838	9,041	18.4
France		,					42,999	212,778	583.2
Germany					,		67,404	351,566	653.0
Greece					_		1,017		655.0 K
					,			(D)	48.4
Hungary							2,512	7,048	
Ireland							46,617	240,473	88.1
Italy	-				•		24,886	106,230	248.3
Luxembourg					•	· •	59,496	314,034	10.9
Netherlands					•		164,217	534,795	230.6
Norway				~	~	· •	6,307	29,954	37.3
Poland							4,969	12,756	83.2
Portugal							3,402	19,161	38.8
Russia					~		666	9,550	39.4
Spain						~	33,735	97,425	211.5
Sweden						~	29,359	73,834	92.9
Switzerland							71,454	199,399	59.9
Turkey				~	~		1,880	7,140	38.7
United Kingdom							239,219	1,581,483	1,219.4
Other					~	-	9,708	30,601	79.1
Latin America and Other Western Hemisphere					~	-	284,561	994,055	1,990.0
South America					~	-	67,133	224,566	753.2
Argentina					~	-	11,247	37,332	94.9
Brazil					,	_	27,615	101,114	391.1
Chile					,		9,991	24,361	64.1
Colombia				~	,		2,557	12,668	71.2
Ecuador						-	1,179	3,052	15.5
Peru				_	_		2,809	11,691	22.8
Venezuela		,	,		,	· •	10,330	29,643	79.9
Other		,	- ·		,		1,406	4,704	13.7
Central America		-			·		64,840	180,245	1,169.5
Costa Rica							1,802	5,055	26.1
Honduras							181	1,346	17.4
Mexico						· •	55,724	142,566	1,041.5
Panama							5,844	(D)	L
Other			,		~		1,290	(D)	J
Other Western Hemisphere							152,587	589,243	67.3
Barbados							1,571	(D)	1.7
Bermuda					,		80,048	322,453	10.0
Dominican Republic						-	983	4,498	20.7
United Kingdom Islands, Caribbean							49,806	191,997	5.7
Other		~			-	-	20,180	(D)	29.2
Africa					•	-	16,290	77,632	218.7
Egypt							2,859	7,146	30.8
Nigeria				~	~	~	1,753	9,900	9.2
South Africa							3,366	13,852	115.5
Other					~	~	8,312	46,734	63.1
Middle East					~	~	14,671	59,623	87.9
Israel					~	~	5,632	20,301	57.1
Saudi Arabia					~	-	3,823	17,108	15.3
United Arab Emirates					-	-	1,277	(D)	6.6
Other					-	-	3,939	(D)	8.8
Asia and Pacific					,		267,125	1,116,796	2,156.7
Australia					,		34,409	154,272	320.6
China					l .		10,499	45,605	327.7
Hong Kong				_	,		41,571	107,225	98.5
India	1			•	,		3,283	16,290	115.6
Indonesia						 	10,341	34,875	79.8
		-							
Japan Karas Benublis of		-				· ·	65,939	431,911	503.7
Korea, Republic of					•	,	12,178	35,776	96.3
Malaysia					~		6,954	27,420	114.5
New Zealand					~		4,004	20,154	46.4
Philippines							4,642	17,311	90.1
Singapore							52,449	130,672	113.6
Taiwan						•	10,153	51,299	81.4
Thailand					~	~	7,608	31,627	144.7
Other					~		3,094	12,362	23.8

D Suppressed to avoid disclosure of data of individual companies.

USM United States Method
FCS Fully Consolidated System
EUM European Union Method
1. Equals ((Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
2. Equals ((Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 2b.--Comparison of Sample Estimates and BEA Published Universe Estimates for Selected Items on USM, FCS, and EUM, 2002 [Millions of Dollars or Thousands of Employees]

	Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad					BEA Publishe	d Universe Estim	ates for 2002	
		USM less FC	S ¹		USM less EUI han 5 Percent	M ²	U.S. direct investment	Total assets of foreign	Total employment
		een Sample Es			een Sample Es Assets		position abroad	affiliates	by foreign affiliates
All industries							1,601,414	6,865,705	9,695.9
Mining					v	~	86,564	298,637	167.5
Oil and gas extraction					~	~	62,361	238,946	61.7
Other					~	-	24,203	59,691	105.8
Utilities					~		24,330	142,367	101.4
Manufacturing					~	,	339,391	1,343,683	5,062.8
Food				-	~	,	18,340	76,557	418.4
Beverages and tobacco products					~	,	19,060	82,976	414.5
Textiles, apparel, and leather products Wood products							3,402 4,521	11,990 14,602	144.3 25.1
Paper					,		13,757	45,216	161.0
Printing and related support activities							1,715	3,676	31.9
Petroleum and coal products	_				,		12,187	84,454	55.0
Chemicals					·		81,449	345,030	656.3
Basic chemicals					,		13,922	61,264	106.1
Resins and synthetic rubber, fibers, and filaments					·	-	10,635	55,473	66.9
Pharmaceuticals and medicines							29,681	140,395	225.1
Soap, cleaning compounds, and toilet preparations			1				9,835	33,930	131.2
Other			1		,	-	17,376	53,969	127.0
Plastics and rubber products							11,385	30,187	167.1
Nonmetallic mineral products							8,243	18,712	83.1
Primary and fabricated metals							21,926	64,165	255.9
Primary metals							10,528	33,110	108.2
Fabricated metal products							11,398	31,054	147.7
Machinery					~	-	18,612	70,477	385.0
Agriculture, construction, and mining machinery					~	-	4,244	18,378	76.8
Industrial machinery							2,583	8,206	31.3
Other					~		11,784	43,892	277.0
Computers and electronic products							53,601	177,022	713.1
Computers and peripheral equipment Communications equipment							10,402 10,918	64,267 28,790	174.1 107.2
									107.2
Audio and video equipment Semiconductors and other electronic components							1,113 27,631	(D) 63,775	319.1
Navigational, measuring, and other instruments							4,382	15,727	61.8
Magnetic and optical media							-846	(D)	01.0
Electrical equipment, appliances, and components							9,030	32,183	250.5
Transportation equipment					,		44,820	245,032	1,075.3
Motor vehicles, bodies and trailers, and parts					,		38,693	234,624	N.
Other							6,127	10,408	ŀ
Furniture and related products					-	-	1,278	4,980	38.3
Miscellaneous manufacturing							16,065	36,425	188.2
Wholesale trade					~		124,686	463,176	823.4
Professional and commercial equipment and supplies							46,128	144,743	324.7
Other durable goods					~		34,317	107,125	204.2
Petroleum and petroleum products					~	-	7,920	66,781	40.9
Other nondurable goods							36,322	144,526	253.6
Information		~	-		~		39,812	280,209	646.0
Publishing industries							18,943	32,848	80.5
Motion picture and sound recording industries							5,576	11,505	49.3
Broadcasting and telecommunications	•	•	-		•	, , , , , , , , , , , , , , , , , , ,	8,113	212,703	379.7
Broadcasting, cable networks, and program distribution Telecommunications		,	-			· ·	529 7,584	25,508 187,195	38.1 341.6
Information services and data processing services	+ -				,	'	7,584	23,152	136.5
Finance (except depository institutions) and insurance	+		1			_	264,680	2,438,387	332.5
Finance, except depository institutions	+		1				193,109	1,967,929	166.4
Securities, commodity contracts, and other intermediation and related activities	-		1				115,146	1,502,730	71.8
Other finance, except depository institutions							77,963	465,199	94.5
Insurance carriers and related activities							71,571	470,457	166.2
Professional, scientific, and technical services							34,907	123,553	443.9
Architectural, engineering, and related services					-		2,297	9,624	39.9
Computer systems design and related services			1		,	-	15,580	49,170	189.7
Management, scientific, and technical consulting				~	~		4,971	28,385	41.9
Advertising and related services							7,768	23,337	84.8
Other							4,292	13,037	87.7
Other industries					,		630,450	1,775,694	2,118.3
Agriculture, forestry, fishing, and hunting				~			1,418	4,071	69.8
Construction							2,567	7,203	42.4
Retail trade	-						29,991	64,386	605.1
Transportation and warehousing			-		~		8,455	73,711	195.8
Real estate and rental and leasing							26,606	104,775	56.9
Real estate	-		-			,	5,829	40,824	18.7
Rental and leasing (except real estate)							20,777	63,951	38.1
Management of nonbank companies and enterprises	+		-		~		529,222	1,432,918	33.0
Administration, support, and waste management			-				6,530	24,966	493.4
Health care and social assistance	+		-				481	2,075	10.7
Accommodation and food services	+		-		-		20,396	46,527	511.7
Accommodation Food services and drinking places	-		-				9,266 11,130	19,255 27,273	63.6 448.1
Miscellaneous services		1	-		-		4,785	15,062	99.6

D Suppressed to avoid disclosure of data of individual companies. USM United States Method FCS Fully Consolidated System EUM European Union Method

Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals (Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 3a.--Comparison of Sample Estimates and BEA Published Universe Estimates for Selected Items on USM, FCS, and EUM, 2002 [Millions of Dollars or Thousands of Employees]

[Millions of Dollars or Thousands of Employees]	Comp	parison of Esti	mates for a Lar	ge Sample of C	Companies (co	overing	BEA Publishe	d Universe Estim	ates for 2002
	more t	than 3/4 of the	position in, and	d the total asse	ts of, foreign	affiliates)			
			for which the N BE-11 Annual S						
		USM less FCS			JSM less EUN		U.S. direct	Total assets	Total
		an 15 Percen		Greater th	an 15 Percen	t Difference	investment	of foreign	employment
	Betwe Position	en Sample Es Assets	timates Employment	Betwe Position	en Sample Es Assets	Employment Employment	position abroad	affiliates	by foreign affiliates
All countries							1,601,414	6,865,705	9,695.9
Canada							170,169	514,250	1,124.1
Europe							848,599	4,103,349	4,118.4
Austria							4,514	20,404	31.2
Belgium			,		,	-	24,868	172,524	141.5
Czech Republic							1,400	9,522	52.8
Denmark					~		6,132	(D)	L
Finland							1,838	9,041	18.4
France							42,999	212,778	583.2
Germany							67,404	351,566	653.0
Greece							1,017	(D)	K
Hungary							2,512	7,048	48.4
Ireland							46,617	240,473	88.1
Italy							24,886	106,230	248.3
Luxembourg					•		59,496	314,034	10.9
Netherlands							164,217	534,795	230.6
Norway							6,307	29,954	37.3
Poland							4,969	12,756	83.2
Portugal							3,402	19,161	38.8
Russia					,		666	9,550	39.4
Spain							33,735	97,425	211.5
Sweden							29,359	73,834	92.9
Switzerland							71,454	199,399	59.9
Turkey				~			1,880	7,140	38.7
United Kingdom							239,219	1,581,483	1,219.4
Other					,		9,708	30,601	79.1
Latin America and Other Western Hemisphere							284,561	994,055	1,990.0
South America							67,133	224,566	753.2
Argentina							11,247	37,332	94.9
Brazil							27,615	101,114	391.1
Chile							9,991	24,361	64.1
Colombia				~			2,557	12,668	71.2
Ecuador							1,179	3,052	15.5
Peru					~		2,809	11,691	22.8
Venezuela			~		~	-	10,330	29,643	79.9
Other					~		1,406	4,704	13.7
Central America							64,840	180,245	1,169.5
Costa Rica							1,802	5,055	26.1
Honduras							181	1,346	17.4
Mexico							55,724	142,566	1,041.5
Panama							5,844	(D)	L.
Other							1,290	(D)	J
Other Western Hemisphere							152,587	589,243	67.3
Barbados							1,571	(D)	1.7
Bermuda							80,048	322,453	10.0
Dominican Republic							983	4,498	20.7
United Kingdom Islands, Caribbean							49,806	191,997	5.7
Other						ļ <u></u>	20,180	(D)	29.2
Africa					•		16,290	77,632	218.7
Egypt							2,859	7,146	30.8
Nigeria				~	•	,	1,753	9,900	9.2
South Africa			-				3,366	13,852	115.5
Other			-			<u> </u>	8,312	46,734	63.1
Middle East			-		•	,	14,671	59,623	87.9
Israel			-			<u> </u>	5,632	20,301	57.1
Saudi Arabia			-		•	,	3,823	17,108	15.3
United Arab Emirates			-			<u> </u>	1,277	(D)	6.6 8.8
Other	-				•		3,939	(D)	
Asia and Pacific Australia							267,125 34,409	1,116,796	2,156.7
			-		•	, ,		154,272	320.6
China	-						10,499	45,605	327.7
Hong Kong	-			•			41,571	107,225	98.5
India						 	3,283	16,290	115.6
Indonesia						, , , , , , , , , , , , , , , , , , ,	10,341	34,875	79.8
Japan Koroa Popublic of			-			,	65,939	431,911	503.7 96.3
Korea, Republic of			-		•		12,178	35,776	
Malaysia							6,954	27,420	114.5
New Zealand			-				4,004	20,154	46.4
Philippines			-				4,642	17,311	90.1
Singapore			-				52,449	130,672	113.6
Taiwan	_		-			_	10,153	51,299	81.4
Thailand							7,608	31,627	144.7
Other							3,094	12,362	23.8

D Suppressed to avoid disclosure of data of individual companies.

USM United States Method
FCS Fully Consolidated System
EUM European Union Method
1. Equals ((Sample estimates based on USM less sample estimates based on FCS) divided
by the sample estimates based on FCS] times one hundred.
2. Equals ((Sample estimates based on USM less sample estimates based on EUM) divided
by the sample estimates based on EUM] times one hundred.

Table 3b.--Comparison of Sample Estimates and BEA Published Universe Estimates for Selected Items on USM, FCS, and EUM, 2002 [Millions of Dollars or Thousands of Employees]

	Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad					BEA Published Universe Estimates fo			
	Greater th	USM less FCS nan 15 Percent en Sample Es Assets	Difference	Greater th	USM less EUI ian 15 Percen en Sample Es Assets	t Difference	U.S. direct investment position abroad	Total assets of foreign affiliates	Total employment by foreign affiliates
All industries			1 7 1			1 , ,		6 00E 70E	9,695
All industries Mining							1,601,414 86,564	6,865,705 298,637	9,695
Oil and gas extraction					,		62,361	238,946	61
Other					•		24,203	59,691	105
Jtilities							24,330	142,367	101
Manufacturing							339,391	1,343,683	5,062
Food							18,340	76,557	418
Beverages and tobacco products						_	19,060	82,976	414
Textiles, apparel, and leather products							3,402	11,990	144
Wood products							4,521	14,602	25
Paper							13,757	45,216	161
Printing and related support activities							1,715	3,676	31
Petroleum and coal products					~	~	12,187	84,454	55
Chemicals							81,449	345,030	656
Basic chemicals							13,922	61,264	106
Resins and synthetic rubber, fibers, and filaments						-	10,635	55,473	66
Pharmaceuticals and medicines							29,681	140,395	225
Soap, cleaning compounds, and toilet preparations							9,835	33,930	131
Other							17,376	53,969	127
Plastics and rubber products							11,385	30,187	167
Nonmetallic mineral products							8,243	18,712	83
Primary and fabricated metals							21,926	64,165	255
Primary metals							10,528	33,110	108
Fabricated metal products							11,398	31,054	147
Machinery					~	~	18,612	70,477	385
Agriculture, construction, and mining machinery					~	-	4,244	18,378	76
Industrial machinery							2,583	8,206	31
Other					~	-	11,784	43,892	277
Computers and electronic products							53,601	177,022	713
Computers and peripheral equipment							10,402	64,267	174
Communications equipment							10,918	28,790	107
Audio and video equipment							1,113	(D)	
Semiconductors and other electronic components							27,631	63,775	319
Navigational, measuring, and other instruments							4,382	15,727	61
Magnetic and optical media							-846	(D)	
Electrical equipment, appliances, and components							9,030	32,183	250
Transportation equipment							44,820	245,032	1,075
Motor vehicles, bodies and trailers, and parts							38,693	234,624	
Other							6,127	10,408	
Furniture and related products							1,278	4,980	38
Miscellaneous manufacturing							16,065	36,425	188
Wholesale trade							124,686	463,176	823
Professional and commercial equipment and supplies							46,128	144,743	324
Other durable goods							34,317	107,125	204
Petroleum and petroleum products					•	· ·	7,920	66,781	40
Other nondurable goods							36,322	144,526	253
nformation					•		39,812	280,209	646
Publishing industries							18,943	32,848	80
Motion picture and sound recording industries	1						5,576	11,505	49
Broadcasting and telecommunications	1				•	-	8,113	212,703	379
Broadcasting, cable networks, and program distribution					•	 	529 7,584	25,508 187,195	38 341
Telecommunications	1		,		•	-	7,584	187,195	136
Information services and data processing services Finance (except depository institutions) and insurance	-					_	7,179 264,680	23,152	136 332
Finance, except depository institutions	1						193,109	1,967,929	166
Securities, commodity contracts, and other intermediation and related activities							115,146	1,502,730	71
Other finance, except depository institutions							77,963	465,199	94
Insurance carriers and related activities	1						71,571	470,457	166
Professional, scientific, and technical services					,		34,907	123,553	443
Architectural, engineering, and related services	1				•		2,297	9,624	39
Computer systems design and related services	+						15,580	49,170	189
Management, scientific, and technical consulting	1						4,971	28,385	41
Advertising and related services	1				•		7,768	23,337	84
Other						 	4,292	13,037	87
Other industries	+						630,450	1,775,694	2,118
Agriculture, forestry, fishing, and hunting				~			1,418	4,071	69
Construction							2,567	7,203	42
Retail trade							29,991	64,386	605
Transportation and warehousing					,		8,455	73,711	195
Real estate and rental and leasing					· ·		26,606	104,775	56
Real estate						-	5,829	40,824	18
Rental and leasing (except real estate)							20,777	63,951	38
Management of nonbank companies and enterprises							529,222	1,432,918	33
Administration, support, and waste management							6,530	24,966	493
Health care and social assistance							481	2,075	10
Accommodation and food services	+						20,396	46,527	511
Accommodation							9,266	19,255	63
Food services and drinking places	+						11,130	27,273	448
		I .		1	i e	1			99

D Suppressed to avoid disclosure of data of individual companies. USM United States Method FCS Fully Consolidated System EUM European Union Method

Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals [(Sample estimates based on EVS] times one stimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 4a.--U.S. Direct Investment Position Abroad, by Country, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates
[Millions of Dollars or Percent]

	Percent Differ Sample E		BEA Published
	USM	USM	Universe
	less	less	Estimates
	FCS ¹	EUM ²	Estimates
All countries	A	A	1,601,414
Canada	A	А	170,169
Europe	A	А	848,599
Austria	0	A	4,514
Belgium	A	A	24,868
Czech Republic	0	0	1,400
Denmark Finland	0	0 A	6,132 1,838
France	U A	A	42,999
Germany	0	A	67,404
Greece	0	0	1,017
Hungary	0	0	2,512
Ireland	0	А	46,617
Italy	0	Α	24,886
Luxembourg	0	A	59,496
Netherlands	A	A	164,217
Norway Poland	0 A	AAA	6,307 4,969
Portugal	0	0	3,402
Russia	0	0	666
Spain	0	A	33,735
Sweden	0	А	29,359
Switzerland	0	А	71,454
Turkey	0	AAA	1,880
United Kingdom	A	Α	239,219
Other	0	A	9,708
Latin America and Other Western Hemisphere	A	A	284,561
South America Argentina	A	A	67,133 11,247
Brazil	0	A	27,615
Chile	0	A	9,991
Colombia	A	AAA	2,557
Ecuador	0	А	1,179
Peru	A	AA	2,809
Venezuela	A	A	10,330
Other	0 A	A	1,406
Central America Costa Rica	0	A	64,840 1,802
Honduras	0	0	1,802
Mexico	0	Ā	55,724
Panama	0	А	5,844
Other	A	А	1,290
Other Western Hemisphere	A	A	152,587
Barbados	0	0	1,571
Bermuda	0	A	80,048
Dominican Republic United Kingdom Islands, Caribbean	0 A	A A	983 49,806
Other	A	A	20,180
Africa	0	A	16,290
Egypt	0	0	2,859
Nigeria	0	AAA	1,753
South Africa	0	А	3,366
Other	0	Α	8,312
Middle East	A	A	14,671
Israel	A 0	A	5,632
Saudi Arabia United Arab Emirates	0	A 0	3,823 1,277
Other	0	A	3,939
Asia and Pacific	Ă	Ä	267,125
Australia	A	А	34,409
China	0	Α	10,499
Hong Kong	0	AAA	41,571
India	0	A	3,283
Indonesia	0 A	A	10,341
Japan Koron Banublia of	A 0	A	65,939
Korea, Republic of Malaysia	0	A	12,178 6,954
New Zealand	0	A	4,004
Philippines	0	Ä	4,642
Singapore	0	A	52,449
Taiwan	0	0	10,153
Thailand	0	А	7,608
Other	0	A	3,094

USM United States Method FCS Fully Consolidated System EUM European Union Method

Note: Size ranges are given for the absolute value of the percent difference between sample estimates. The size ranges are A 0.1--4.9; AA 5.0--9.9; AAA 10.0--24.9; AAAA 25.0--49.9; AAAAA 50.0--99.9; AAAAA 100.0 or more.

^{1.} Equals [(Sample estimates based on USM less sample estimates based on FCS) divided

^{1.} Equals [(Cample estimates based on FCS] times one hundred.

2. Equals [(Sample estimates based on FCS] times one hundred.

2. Equals [(Sample estimates based on EUM) divided by the sample estimates based on EUM) times one hundred.

Table 4b.–U.S. Direct Investment Position Abroad, by Industry, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates
[Millions of Dollars or Percent]

All industries All All All Second All Second All Second All All Second All Second All All Second All All Second All Second All Second All All All All Second All Seco	[Millions of Dollars or Percent]		ence Between		BEA
All industries All industries					Published
All industries All All industries All All industries All All All industries All All All industries All All All industries Beverages and tobacco products Textiles, apparel, and leather products All industries All i					Universe
All industries A A A A B Mining O A A B B B B B B B B B B B B B B B B B					Estimates
Mining Ola and gas extraction Oher Oher Oher Oher Oher Oher Oher Oher	All industries				1,601,414
Oil and gas extraction					86,564
Other 0 0 A 22 Mandfacturing A A A 33 Food gas and teacher products 0 A A 33 Food gas and teacher products 0 A A 16 Wood products 0 0 A					62,361
Manufacturing					24,203
Food	- ·····				24,330
Eleverages and tobacco products					339,391
Textilies, apparel, and leather products					18,340
Wood products				_	19,060
Faper A				_	3,402 4,521
Printing and related support activities Petroleum and coal products A A A A 12 Chemicals Basic chemicals A A A A Basic chemicals Resins and synthetic rubber, fibers, and filaments O A A Resins and synthetic rubber, fibers, and filaments O A A Pharmaceuticals and medicines O A A Corber Soap, cleaning compounds, and tollet preparations O A A Corber A A A A The Plastics and rubber products O A A Plastics and rubber products O A A The Plastics and rubber products O A A Pinany and fabricated metals Primary and fabricated metals Primary and fabricated metals O A A Prima					13,757
Petroleum and coal products					1,715
Chemicals					12,187
Resins and synthetic rubber, fibers, and filaments Pharmaceuticals and medicines O A Soap, cleaning compounds, and toilet preparations O A (Ther Plastics and rubber products O A Plastics and rubber products O A Primary and tabricated metals Primary and tabricated metals Primary and tabricated metals O A Primary and tabricated metals O A A Primary and tabricated metals O A A A A A IT Plastics and rubber products O A Primary and tabricated metals O A Primary and tabricated metals O A A Primary metals O A A A A A A A IT Primary metals O A A A A A A A A A A A A A					81,449
Pharmaceuticals and medicines 0	Basic chemicals	A	A		13,922
Soap, cleaning compounds, and tollet preparations	Resins and synthetic rubber, fibers, and filaments	0	A		10,635
Desirics and rubber products					29,681
Plastics and rubber products					9,835
Nomestalic mineral products					17,376
Primary and fabricated metals				_	11,385
Primary metals					8,243
Fabricated metal products					21,926 10,528
Machinery					11,398
Agriculture, construction, and mining machinery Industrial machinery O					18,612
Industrial machinery					4,244
Computers and electronic products 0 A Computers and peripheral equipment 0 0 Computers and peripheral equipment 0 A Audio and video equipment 0 0 Semiconductors and other electronic components 0 0 Semiconductors and other electronic instruments 0 0 Magnetic and optical media 0 0 Magnetic and optical media 0 0 Electrical equipment, appliances, and components A A Motor vehicles, bodies and trailers, and parts 0 A Other 0 A 4 Miscellaneous manufacturing A A 1 Wholesale trade A A A 1 Wholesale trade A A A 1 Potressional and commercial equipment and supplies 0 A A Other durable goods A A A A Petroleum and petroleum products A A A A Other ounda					2,583
Computers and peripheral equipment	Other	0	A		11,784
Communications equipment	Computers and electronic products	0	A		53,601
Audio and video equipment 0 0 0 5 27 5 5 5 5 5 5 5 5 5					10,402
Semiconductors and other electronic components Navigational, measuring, and other instruments 0 0 0 Magnetic and optical media Electrical equipment, appliances, and components Transportation equipment 0 A A A A Seminary of the semi					10,918
Navigational, measuring, and other instruments 0 0 0 0 Magnetic and optical media 0 0 0 0 Electrical equipment, appliances, and components A					1,113
Magnetic and optical media Celectrical equipment, appliances, and components				_	27,631
Electrical equipment, appliances, and components Transportation equipment Motor vehicles, bodies and trailers, and parts O A 330 Other Furniture and related products O AAA Miscellaneous manufacturing A A A Miscellaneous manufacturing A A A Miscellaneous manufacturing A A A Professional and commercial equipment and supplies O A AA Other durable goods A A A Other nondurable goods A A A Petroleum and petroleum products A A A Other nondurable goods A A A Publishing industries A A A Publishing industries A A A Publishing industries A A A Motion picture and sound recording industries Broadcasting, cable networks, and program distribution A A A Broadcasting, cable networks, and program distribution AAA A Information services and data processing services O A Information, except depository institutions O A Securities, commodity contracts, and other intermediation and related activities O A Information services and related activities O A Information services and related activities O A Information services O A Information services O A Information services and related activities O A Information services and services O A				-	4,382
Transportation equipment					-846 9.030
Motor vehicles, bodies and trailers, and parts 0 A Other 0 0 Furniture and related products 0 AAA Miscellaneous manufacturing A A Wholesale trade A A Professional and commercial equipment and supplies 0 A Other durable goods A A Other nondurable goods A A Information A A Other nondurable goods A A Information A A Motion picture and sound recording industries 0 A Broadcasting, cable networks, and program distribution 0 A Broadcasting, cable networks, and program distribution 0 A Information services and data processing services 0 A Information services and data processing services 0 A Finance, except depository institutions) and insurance 0 A Information, except depository institutions 0 A Securities, commodity contracts, and other intermediation and rel					44,820
Other 0 0 Furniture and related products 0 AAA Miscellaneous manufacturing A A Wholesale trade A A Professional and commercial equipment and supplies 0 A Other durable goods A A A Other nondurable goods A A A Information A A A Publishing industries A A A Motion picture and sound recording industries 0 A A Broadcasting, cable networks, and program distribution 0 A Broadcasting, cable networks, and program distribution 0 A Telecommunications AAA A Information services and data processing services 0 A Finance (except depository institutions) and insurance 0 A Securities, commodity contracts, and other intermediation and related activities 0 A Offer finance, except depository institutions 0 A Securities, commodity contracts, and other interme					38,693
Furniture and related products					6,127
Wholesale trade A A 124 Professional and commercial equipment and supplies 0 A 46 Other durable goods A A A Petroleum and petroleum products A A A Other nondurable goods A A A Information A A A Publishing industries A A A Motion picture and sound recording industries 0 A A Broadcasting, cable networks, and program distribution 0 A A Broadcasting, cable networks, and program distribution 0 A A Telecommunications AAA A A Information services and data processing services 0 A A Information services and data processing services 0 A A Finance (except depository institutions) and insurance 0 A 193 Finance, except depository institutions 0 A 193 Securities, commodity contracts, and other intermediation and related ac					1,278
Professional and commercial equipment and supplies 0 A A A A A A A A A A A A A A A A A A	Miscellaneous manufacturing	A	A		16,065
Other durable goods					124,686
Petroleum and petroleum products					46,128
Other nondurable goods A A A Information A A A A Publishing industries A A A A Motion picture and sound recording industries 0 A A A Broadcasting, cable networks, and program distribution 0 A A A Information services and data processing services 0 A A A Finance (except depository institutions) and insurance 0 A 264 Finance, except depository institutions 0 A 193 Securities, commodity contracts, and other intermediation and related activities 0 A 193 Securities, commodity contracts, and other intermediation and related activities 0 A 193 Other finance, except depository institutions 0 A 193 Insurance carriers and related activities 0 A 77 Professional, scientific, and technical services 0 A 77 Professional, scientific, and technical services 0 0 0					34,317
Information A B E B Broadcasting and telecommunications AA A A B E B<					7,920
Publishing industries					36,322
Motion picture and sound recording industries 0				_	39,812 18,943
Broadcasting and telecommunications Broadcasting, cable networks, and program distribution Telecommunications AAA A Information services and data processing services 0 A Finance (except depository institutions) and insurance 0 A Securities, commodity contracts, and other intermediation and related activities 0 A Tother finance, except depository institutions 0 A Securities, commodity contracts, and other intermediation and related activities 0 A Tother finance, except depository institutions 0 Computer systems design and related services 0 A Tother finance, except depository institutions 0 Computer systems design and related services 0 A Tother finance, except depository institutions 1 A Tother finance, except				-	5,576
Broadcasting, cable networks, and program distribution				-	8,113
Telecommunications	Broadcasting and telecommunications Broadcasting and telecommunications				529
Information services and data processing services					7,584
Finance, except depository institutions 0					7,179
Securities, commodity contracts, and other intermediation and related activities		0	A		264,680
Other finance, except depository institutions 0 A 77 Insurance carriers and related activities 0 A 77 Professional, scientific, and technical services A A A Architectural, engineering, and related services 0 0 0 Computer systems design and related services A A A Management, scientific, and technical consulting A AAAA 4 Advertising and related services 0 A 7 Other 0 0 0 4 Other industries A A A A Agriculture, forestry, fishing, and hunting 0 AAAAA 4 Construction 0 0 0 2 Retail trade 0 A 25 Transportation and warehousing 0 A 25 Real estate and rental and leasing 0 A 25 Real estate 0 0 6 5 Real estate 0 0					193,109
Insurance carriers and related activities					115,146
Professional, scientific, and technical services A A Architectural, engineering, and related services 0 0 Computer systems design and related services A A Management, scientific, and technical consulting A AAA Advertising and related services 0 A Other 0 0 A Other industries A A A Other industries A A A Agriculture, forestry, fishing, and hunting 0 AAAAA A Construction 0 0 A Retail trade 0 A 2 Transportation and warehousing 0 A 2 Real estate and rental and leasing 0 A 2 Real estate 0 0 5 Rental and leasing (except real estate) 0 A 2 Management of nonbank companies and enterprises A A A Administration, support, and waste management 0 0 0 <					77,963
Architectural, engineering, and related services 0 0 Computer systems design and related services A A Management, scientific, and technical consulting A AAA Advertising and related services 0 A Other 0 0 0 Other industries A A A Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 A 25 Retail trade 0 A 25 Transportation and warehousing 0 A 26 Real estate and rental and leasing 0 A 25 Real estate and rental and leasing (except real estate) 0 A 25 Management of nonbank companies and enterprises A A A 525 Administration, support, and waste management 0 0 0 A 525 Accommodation and food services 0 A A A A A A					71,571
Computer systems design and related services A A Management, scientific, and technical consulting A AAA Advertising and related services 0 A Other 0 0 0 Other industries A A A Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 A Retail trade 0 A 2 Transportation and warehousing 0 A 2 Real estate and rental and leasing 0 A 2 Real estate 0 0 5 Rental and leasing (except real estate) 0 A 2 Management of nonbank companies and enterprises A A A Administration, support, and waste management 0 0 6 Health care and social assistance 0 0 A Accommodation and food services 0 A 2				_	34,907
Management, scientific, and technical consulting A AAA Advertising and related services 0 A Other industries 0 0 Other industries A A Agriculture, forestry, fishing, and hunting 0 AAAAA Construction 0 0 Retail trade 0 A Transportation and warehousing 0 A Real estate and rental and leasing 0 A Real estate state 0 0 Rental and leasing (except real estate) 0 A Management of nonbank companies and enterprises A A Administration, support, and waste management 0 0 Health care and social assistance 0 0 Accommodation and food services 0 A					2,297
Advertising and related services 0 A 7 Other 0 0 0 4 63 Other industries A A A 63 Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 A 25 Retail trade 0 A 25 Transportation and warehousing 0 A 26 Real estate entertal and leasing 0 A 26 Real estate 0 0 0 5 Rental and leasing (except real estate) 0 A 20 Rental and leasing (except real estate) 0 A 525 Administration, support, and waste management 0 0 6 Health care and social assistance 0 0 0 Accommodation and food services 0 A 20 Accommodation 0 A 20				_	15,580 4,971
Other Other Other Industries 0 0 4 Other Industries A A 630 Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 2 Retail trade 0 A 26 Transportation and warehousing 0 A 26 Real estate and rental and leasing 0 A 26 Real estate 0 0 6 5 Rental and leasing (except real estate) 0 A 20 Management of nonbank companies and enterprises A A A Administration, support, and waste management 0 0 0 Health care and social assistance 0 0 0 Accommodation and food services 0 A 20				-	7.768
Other industries A A A Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 0 2 Retail trade 0 A 25 Transportation and warehousing 0 A 8 Real estate and rental and leasing 0 A 25 Rental estate 0 0 A 25 Rental and leasing (except real estate) 0 A 20 Management of nonbank companies and enterprises A A 525 Administration, support, and waste management 0 0 0 Health care and social assistance 0 0 0 Accommodation and food services 0 A 20 Accommodation 0 A 20					4,292
Agriculture, forestry, fishing, and hunting 0 AAAAA 1 Construction 0 0 0 Retail trade 0 A 25 Transportation and warehousing 0 A 8 Real estate and rental and leasing 0 A 26 Real estate 0 0 6 5 Rental and leasing (except real estate) 0 A 20 Management of nonbank companies and enterprises A A 525 Administration, support, and waste management 0 0 6 Health care and social assistance 0 0 A Accommodation and food services 0 A 20 Accommodation 0 A 20					630,450
Construction 0 0 Retail trade 0 A Transportation and warehousing 0 A Real estate and rental and leasing 0 A Real estate 0 0 Rental and leasing (except real estate) 0 A Management of nonbank companies and enterprises A A Administration, support, and waste management 0 0 Health care and social assistance 0 0 Accommodation and food services 0 A Accommodation 0 A					1,418
Retail trade 0 A 25° Transportation and warehousing 0 A 8 Real estate and rental and leasing 0 A 26° Real estate 0 0 A 26° Rental and leasing (except real estate) 0 A 20° A 20° Management of nonbank companies and enterprises A A A 52° Administration, support, and waste management 0 0 0 A 52° Accommodation and food services 0 A 20° Accommodation and food services 0 A 20° Accommodation 0 A 20°		0	0		2,567
Transportation and warehousing 0 A 8 Real estate and rental and leasing 0 A 26 Real estate 0 0 5 Rental and leasing (except real estate) 0 A 22 Management of nonbank companies and enterprises A A 525 Administration, support, and waste management 0 0 0 Health care and social assistance 0 0 A Accommodation and food services 0 A 20 Accommodation 0 A 0 0	Retail trade	0	A		29,991
Real estate 0 0 5 Rental and leasing (except real estate) 0 A A A 525 Administration, support, and waste management 0 0 0 6 6 6 6 6 6 6 6 6 6 6 6 7 6 6 6 7 6 6 7 6 6 7 7 6 6 7					8,455
Rental and leasing (except real estate) 0 A 22 Management of nonbank companies and enterprises A A 525 Administration, support, and waste management 0 0 6 Health care and social assistance 0 A 20 Accommodation and food services 0 A 20 Accommodation 0 A 5					26,606
Management of nonbank companies and enterprises A A 525 Administration, support, and waste management 0 0 6 Health care and social assistance 0 A 20 Accommodation and food services 0 A 20 Accommodation 0 A 0					5,829
Administration, support, and waste management 0 0 6 Health care and social assistance 0 0 A Accommodation and food services 0 A 20 Accommodation 0 A 5					20,777
Health care and social assistance 0 0 0 Accommodation and food services 0 A 20 Accommodation 0 A 5 6 6 6 6 6 6 6 6 6					529,222
Accommodation and food services 0 A 20 Accommodation 0 A S					6,530
Accommodation 0 A 9					481 20,396
					9,266
	Food services and drinking places	0	A		11,130
					4,785

USM United States Method FCS Fully Consolidated System EUM European Union Method

Note: Size ranges are given for the absolute value of the percent difference between sample estimates. The size ranges are A 0.1--4.9; AA 5.0--9.9; AAA 10.0--24.9; AAAA 25.0--49.9; AAAAA 50.0--99.9; AAAAAA 100.0 or more.

Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals [(Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 4c.--Total Assets of Foreign Affiliates, by Country, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates
[Millions of Dollars or Percent]

[Millions of Dollars or Percent]	Percent Differe Sample E	ence Between	BEA Published
	USM	USM	Universe
	less	less	Estimates
	FCS ¹	EUM ²	
All countries	l A	AA	6,865,705
Canada	A	Α	514,250
Europe	A	AA	4,103,349
Austria	0	A	20,404
Belgium	AA	AAAA	172,524
Czech Republic	AA	AA	9,522
Denmark Finland	0	AAAA A	(D) 9,041
France	AA	AA	212,778
Germany	AA	AAA	351,566
Greece	0	AAA	(D)
Hungary	0	AA	7,048
Ireland	Ă	A	240,473
Italy	A	AA	106,230
Luxembourg	0	AAAA	314,034
Netherlands	Ă	AA	534,795
Norway	0	AA	29,954
Poland	Ä	A	12,756
Portugal	0	A	19,161
Russia	0	AAAAA	9,550
Spain	A	A	97,425
Sweden	0	A	73,834
Switzerland	0	Α	199,399
Turkey	0	AA	7,140
United Kingdom	А	Α	1,581,483
Other	0	AAAA	30,601
Latin America and Other Western Hemisphere	A	AA	994,055
South America	A	AAA	224,566
Argentina	A	AAA	37,332
Brazil	0	AA	101,114
Chile	A	AA	24,361
Colombia	A	AA	12,668
Ecuador	0	A	3,052
Peru	A	AAAA	11,691
Venezuela	AAA	AAAAA	29,643
Other	AA	AAA	4,704
Central America	A	A	180,245
Costa Rica	0	A	5,055
Honduras Mexico	0	0	1,346
	A	A A	142,566
Panama Other	0 A	AA	(D)
	A	AA	589,243
Other Western Hemisphere Barbados	0	A	(D)
Bermuda	0	AA	322,453
Dominican Republic	0	A	4,498
United Kingdom Islands, Caribbean	A	A	191,997
Other	AA	AA	(D)
Africa	0	AAA	77,632
Egypt	Ö	A	7,146
Nigeria	0	AAAAA	9,900
South Africa	0	A	13,852
Other	0	AAA	46,734
Middle East	A	AAAA	59,623
Israel	A	AA	20,301
Saudi Arabia	A	AAAA	17,108
United Arab Emirates	0	AA	(D)
Other	0	AAAAA	(D)
Asia and Pacific	A	AAA	1,116,796
Australia	A	AAA	154,272
China	0	Α	45,605
Hong Kong	A	AAA	107,225
India	0	AAA	16,290
Indonesia	0	AAAA	34,875
Japan	A	AAA	431,911
Korea, Republic of	0	AAAA	35,776
Malaysia	0	AA	27,420
New Zealand	0	AA	20,154
Philippines	0	A	17,311
Singapore	0	A	130,672
Taiwan	0	A	51,299
Thailand	0	AAA	31,627
Other	A	AA	12,362

D Suppressed to avoid disclosure of data of individual companies. USM United States Method FCS Fully Consolidated System EUM European Union Method

Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals [(Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Note: Size ranges are given for the percent difference between sample estimates. The size ranges are A 0.1--4.9; AA 5.0--9.9; AAA 10.0--24.9; AAAA 25.0--49.9; AAAAA 50.0--99.9; AAAAAA 100.0 or more.

Table 4d.--Total Assets of Foreign Affiliates, by Industry, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates
[Millions of Dollars or Percent]

		ence Between	BEA
		stimates	Published
	USM	USM less	Universe Estimates
	FCS ¹	EUM ²	Lamates
All industries	A	AA	6,865,705
Mining	0	AAA	298,637
Oil and gas extraction	0	AAA	238,946
Other	0	AA	59,691
Utilities Manufacturing	A	AA AA	142,367 1,343,683
Food	A	AA	76,557
Beverages and tobacco products	Ä	AAA	82,976
Textiles, apparel, and leather products	0	A	11,990
Wood products	0	0	14,602
Paper	A	AA	45,216
Printing and related support activities	A	A	3,676
Petroleum and coal products	A	AAAA	84,454
Chemicals	A	AA	345,030
Basic chemicals	A	AAA	61,264
Resins and synthetic rubber, fibers, and filaments	0	AAA	55,473
Pharmaceuticals and medicines	0	A	140,395
Soap, cleaning compounds, and toilet preparations Other	A A	A AA	33,930 53,969
Plastics and rubber products	0	AA	30,187
Nonmetallic mineral products	0	A	18,712
Primary and fabricated metals	0	A	64,165
Primary metals	0	A	33,110
Fabricated metal products	0	A	31,054
Machinery	Ä	AAA	70,477
Agriculture, construction, and mining machinery	0	AAA	18,378
Industrial machinery	A	A	8,206
Other	0	AAAA	43,892
Computers and electronic products	A	A	177,022
Computers and peripheral equipment	0	0	64,267
Communications equipment	A	A	28,790
Audio and video equipment	0	0	(D
Semiconductors and other electronic components	0	0	63,775
Navigational, measuring, and other instruments	0	0	15,727
Magnetic and optical media		A	(D) 32,183
Electrical equipment, appliances, and components	A 0	AAA	245.032
Transportation equipment Motor vehicles, bodies and trailers, and parts	0	AAA	234,624
Other	ŏ	0	10,408
Furniture and related products	ŏ	AA	4,980
Miscellaneous manufacturing	A	A	36,425
Wholesale trade	A	AA	463,176
Professional and commercial equipment and supplies	0	A	144,743
Other durable goods	A	AA	107,125
Petroleum and petroleum products	A	AAA	66,78
Other nondurable goods	A	A	144,526
Information	AA	AAA	280,209
Publishing industries	A	Α	32,848
Motion picture and sound recording industries	0	A	11,505
Broadcasting and telecommunications	AAA	AAAA	212,703
Broadcasting, cable networks, and program distribution	A	AAAA	25,508
Telecommunications	AAA	AAAA	187,195
Information services and data processing services	0	A	23,152 2,438,387
Finance (except depository institutions) and insurance Finance, except depository institutions	0	A	1,967,929
Securities, commodity contracts, and other intermediation and related activities	0	A	1,502,730
Other finance, except depository institutions	0	A	465,199
Insurance carriers and related activities	0	A	470,45
Professional, scientific, and technical services	Ä	AAAA	123,550
Architectural, engineering, and related services	0	AA	9,624
Computer systems design and related services	A	AA	49,170
Management, scientific, and technical consulting	A	AAAAA	28,385
Advertising and related services	0	A	23,337
Other	0	A	13,037
Other industries	A	AAA	1,775,69
Agriculture, forestry, fishing, and hunting	0	A	4,071
Construction	0	A	7,200
Retail trade	0	A	64,386
Transportation and warehousing	A	AAA	73,71
Real estate and rental and leasing	A	A	104,775
Real estate	A	A	40,824
Rental and leasing (except real estate)	0	A	63,95
Management of nonbank companies and enterprises	A	AAA	1,432,918
Administration, support, and waste management	A	A	24,966
Health care and social assistance	0	0	2,075
Accommodation and food services	0	A	46,527
Accommodation	0	A	19,255
Food services and drinking places	0 A	A A	27,273 15.062
Miscellaneous services	_ A	A	15,062

D Suppressed to avoid disclosure of data of individual companies. USM United States Method FCS Fully Consolidated System EUM European Union Method

Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals [(Sample estimates based on VSM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Note: Size ranges are given for the percent difference between sample estimates. The size ranges are A 0.1-4.9; AA 5.0-9.9; AAAAA 10.0-24.9; AAAAA 25.0-49.9; AAAAAA 50.0-99.9; AAAAAA 100.0 or more.

Table 4e.--Total Employment by Foreign Affiliates, by Country, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates

[Thousands of Employees or Percent]

	Percent Differer		BEA
-	Sample Es		Published
	USM	USM	Universe
	less	less	Estimates
All countries	FCS ¹	EUM ²	0.005
		AA	9,695
Canada	A	A	1,124
Europe	A	A	4,118
Austria	0	A	31
Belgium	AAA	AAAA	141
Czech Republic	AA	AA	52
Denmark	0	A	
Finland	0	A	18
France	A	Α	583
Germany	A	A	653
Greece	0	Α	
Hungary	0	A	48
Ireland	А	Α	88
Italy	Α	A	248
Luxembourg	0	AA	10
Netherlands	A	A	230
Norway	0	AA	37
Poland	A	A	83
Portugal	0	A	38
Russia	0	Â	39
Spain	A	AA	211
Sweden	0	AA	92
Switzerland	0	AA	59
	0	A	
Turkey			38
United Kingdom	A	A	1,219
Other	0	AAA	79
atin America and Other Western Hemisphere	A	AA	1,990
South America	A	AAA	753
Argentina	0	AA	94
Brazil	0	AA	391
Chile	A	A	64
Colombia	A	A	71
Ecuador	0	AA	15
Peru	Α	AA	22
Venezuela	AAA	AAAA	79
Other	A	AA	13
Central America	A	AA	1,169
Costa Rica	0	A	26
Honduras	0	0	17
Mexico	A	AA	1,041
			1,041
Panama	0	A	
Other	AAA	AAA	
Other Western Hemisphere	Α	A	67
Barbados	0	0	1
Bermuda	0	A	10
Dominican Republic	0	AA	20
United Kingdom Islands, Caribbean	0	0	5
Other	A	AA	29
Africa	0	AA	218
Egypt	0	0	30
Nigeria	0	AAAAA	9
South Africa	0	А	115
Other	0	AA	63
Middle East	Ä	AAA	87
Israel	A	AA	57
Saudi Arabia	A	AAAA	15
United Arab Emirates	0	AAA	6
Other	0	AAA	8
Asia and Pacific	A A	AAA	
	- ' '	AAA	2,156
Australia	A		320
China	0	A	327
Hong Kong	0	A	98
India	0	AA	115
Indonesia	0	AAAA	79
Japan	Α	AAAA	503
Korea, Republic of	0	AA	96
Malaysia	0	А	114
New Zealand	0	A	46
Philippines	0	A	90
Singapore	ő	Ä	113
Taiwan	0	AA	81
Thailand	0	AA	144
Other	A	AA	23

USM United States Method FCS Fully Consolidated System EUM European Union Method

Notes: Size ranges are given for the percent difference between sample estimates. The size ranges are A 0.1–4.9; AA 5.0–9.9; AAA 10.0–24.9; AAAA 25.0–49.9; AAAAA 50.0–99.9; AAAAAA 100.0 or more. Size ranges are given in employment cells that are suppressed. The size ranges are: A--1 to 499; F--500 to 999; G--1,000 to 2,499; H--2,500 to 4,999; L--50,000 to 9,999; J--10,000 to 24,999; K--25,000 to 49,999; L--50,000 to 99,999; M--100,000 or more.

^{1.} Equals [(Sample estimates based on USM less sample estimates based on FCS) divided

^{1.} Equals [Gample estimates based on FCS] times one hundred.

2. Equals [(Sample estimates based on FCS] times one hundred.

2. Equals [(Sample estimates based on USM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Table 4f.—Total Employment by Foreign Affiliates, by Industry, 2002: Comparison of Estimates for a Large Sample of Companies (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) Covering Only Affiliates for which the Necessary Chain-of-Ownership Information was Filed on the 2002 BE-11 Annual Survey of U.S. Direct Investment Abroad and BEA Published Universe Estimates
[Thousands of Employees or Percent]

[Thousands of Employees or Percent]		ence Between	BEA
		stimates	Published
	USM less	USM less	Universe Estimates
	FCS ¹	EUM ²	Estimates
All industries	A A	AA	9,695
Mining	0	AAA	167
Oil and gas extraction	0	AAAA	61
Other	0	AA	105
Utilities	A	A AA	101
Manufacturing Food	A	AA AA	5,062 418
Beverages and tobacco products	A	AAAA	414
Textiles, apparel, and leather products	0	A	144
Wood products	0	0	25
Paper	A	AA	161
Printing and related support activities	A	A AAA	31
Petroleum and coal products Chemicals	A	AAA	55 656
Basic chemicals	A	AA	106
Resins and synthetic rubber, fibers, and filaments	0	AAA	66
Pharmaceuticals and medicines	0	Α	225
Soap, cleaning compounds, and toilet preparations	A	A	131
Other	A	AA	127
Plastics and rubber products	0	A A	167
Nonmetallic mineral products Primary and fabricated metals	0	A	255
Primary metals	0	A	108
Fabricated metal products	0	A	147
Machinery	A	AAA	385
Agriculture, construction, and mining machinery	0	AAA	76
Industrial machinery	A	Α	31
Other	0	AAA	277
Computers and electronic products Computers and peripheral equipment	A 0	A 0	713 174
Communications equipment	A	A	107
Audio and video equipment	0	0	107
Semiconductors and other electronic components	0	0	319
Navigational, measuring, and other instruments	0	0	61
Magnetic and optical media	0	0	
Electrical equipment, appliances, and components	A	AA	250
Transportation equipment Motor vehicles, bodies and trailers, and parts	0	AA AA	1,075
Other	0	0	
Furniture and related products	0	AAA	38
Miscellaneous manufacturing	A	Α	188
Wholesale trade	A	A	823
Professional and commercial equipment and supplies	0	Α	324
Other durable goods	A A	A AAAA	204 40
Petroleum and petroleum products Other nondurable goods	A	AAAA	253
Information	AA	AAA	646
Publishing industries	A	A	80
Motion picture and sound recording industries	0	Α	49
Broadcasting and telecommunications	AAA	AAA	379
Broadcasting, cable networks, and program distribution	A	AAA	38
Telecommunications	AAA	AAA	341
Information services and data processing services	0	A	136
Finance (except depository institutions) and insurance Finance, except depository institutions	0	A A	332 166
Securities, commodity contracts, and other intermediation and related activities	0	A	71
Other finance, except depository institutions	0	A	94
Insurance carriers and related activities	0	Α	166
Professional, scientific, and technical services	A	A	443
Architectural, engineering, and related services	0	Α	39
Computer systems design and related services	A	AA	189
Management, scientific, and technical consulting Advertising and related services	A 0	A A	41 84
Other	0	0	87
Other industries	Ä	A	2,118
Agriculture, forestry, fishing, and hunting	0	A	69
Construction	0	Α	42
Retail trade	0	A	605
Transportation and warehousing	A	A	195
Real estate and rental and leasing	0	AAA	56 18
Real estate Rental and leasing (except real estate)	0	AAA A	38
Management of nonbank companies and enterprises	0	AA	33
Administration, support, and waste management	Ä	A	493
Health care and social assistance	0	0	10
Accommodation and food services	0	Α	511
Accommodation	0	0	63
Food services and drinking places	0	A	448
Miscellaneous services	0	A	99

USM United States Method FCS Fully Consolidated System EUM European Union Method

- Equals [(Sample estimates based on USM less sample estimates based on FCS) divided by the sample estimates based on FCS] times one hundred.
 Equals [(Sample estimates based on VSM less sample estimates based on EUM) divided by the sample estimates based on EUM] times one hundred.

Notes: Size ranges are given for the percent difference between sample estimates. The size ranges are A 0.1--4.9; AA 5.0--9.9; AAA 10.0--24.9; AAAA 25.0--49.9; AAAAA 50.0--99.9; AAAAAA 100.0 or more.

Size ranges are given in employment cells that are suppressed. The size ranges are: A--1 to 499; F--500 to 999; G--1,000 to 2,499; H--2,500 to 4,999; L-5,000 to 9,999; J--10,000 to 24,999; K--25,000 to 49,999; L-50,000 to 99,999; M--100,000 or more.

Table 5a.--Number of Foreign Affiliates in Sample¹, by Country, 2002

	USM	FCS	EUM
All countries	12,811	12,749	12,30
Canada	1,085	1,081	1,06
Europe	6,412	6,386	6,21
Austria	87	87	8
Belgium	312	308	29
Czech Republic	67	66	-6
Denmark	106	106	10
Finland	46	46	4
France	705	700	68
	760	759	74
Germany			
Greece	51	50	4
Hungary	56	56	
Ireland	276	274	27
Italy	418	416	40
Luxembourg	101	101	
Netherlands	732	729	70
Norway	82	82	7
Poland	96	94	9
Portugal	67	66	(
Russia	46	46	-
Spain	311	309	30
Sweden	164	164	16
Switzerland	288	288	28
Turkey	53	53	
United Kingdom	1,489	1,487	1,4
Other	99	99	(
_atin America and Other Western Hemisphere	2,185	2,169	2,07
South America	924	913	85
Argentina	178	176	16
Brazil	355	355	33
Chile	102	99	9
Colombia	73	72	6
Ecuador	27	27	
Peru	38	36	
			3
Venezuela	111	109	10
Other	40	39	;
Central America	652	649	62
Costa Rica	21	21	
Honduras	14	14	•
Mexico	518	517	50
Panama	57	57	
Other	42	40	;
Other Western Hemisphere	609	607	59
Barbados	36	36	
Bermuda	227	227	2
Dominican Republic	20	20	
United Kingdom Islands, Caribbean	229	228	22
Other	97	96	
Africa	281	281	20
Egypt	28	28	
Nigeria	35	35	;
South Africa	74	74	
Other	144	144	1;
Viddle East	166	163	14
Israel	68	67	
Saudi Arabia	35	33	
United Arab Emirates	31	31	
		31	
Other	32		2.5
Asia and Pacific	2,682	2,669	2,5
Australia	426	423	4
China	291	291	2
Hong Kong	283	282	2
India	103	103	
Indonesia	91	91	
Japan	533	525	4
Korea, Republic of	147	147	14
Malaysia	110	110	10
New Zealand	55	55	
Philippines	80	80	
Singapore	255	255	2
Taiwan	128	128	12
Thailand	116	116	10
Other	64	63	

USM United States Method FCS Fully Consolidated System EUM European Union Method

^{1.} The sample (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) covers only affiliates for which the necessary chain-of-ownership information was filed on the 2002 BE-11 annual survey of U.S. direct investment abroad.

Table 5b.--Number of Foreign Affiliates in Sample¹, by Industry, 2002

	USM	FCS	EUM
All industries	12,811	12,749	12,30
Mining	510	510	48
Oil and gas extraction	350	350	33
Other	160	160	15
Utilities	195	191	16
Manufacturing	4,554	4,527	4,350
Food	373	366	34
Beverages and tobacco products Toutiles, appears and leather products	152 102	151 102	13
Textiles, apparel, and leather products	23	23	9
Wood products	170	167	15
Paper Printing and related support activities	39	38	
Printing and related support activities Petroleum and coal products	80	78	3
Chemicals	1,124	1,117	1,06
Basic chemicals	237	233	21
Resins and synthetic rubber, fibers, and filaments	144	144	12
Pharmaceuticals and medicines	258	258	25
Soap, cleaning compounds, and toilet preparations	218	217	21
Other	267	265	25
Plastics and rubber products	221	203	21
Nonmetallic mineral products	92	92	8
	286		27
Primary and fabricated metals	109	286 109	10
Primary metals Enbrigated metal products	109	109	16
Fabricated metal products Machinery	395	394	37
Agriculture, construction, and mining machinery	85	394 85	7:
Industrial machinery	51	50	5
	259	259	250
Other	259 486	485	484
Computers and electronic products Computers and peripheral equipment	58	485 58	
	99	98	58
Communications equipment		8	9
Audio and video equipment	215	215	
Semiconductors and other electronic components	94	94	21:
Navigational, measuring, and other instruments	12	12	
Magnetic and optical media	_		1:
Electrical equipment, appliances, and components	192	189	183
Transportation equipment	588	588	573
Motor vehicles, bodies and trailers, and parts	537	537	52:
Other	51	51	5
Furniture and related products	40	40	38
Miscellaneous manufacturing	191	190	190
Wholesale trade	2,263	2,256	2,20
Professional and commercial equipment and supplies	492	492	480
Other durable goods	707	705	690
Petroleum and petroleum products	239	238	21:
Other nondurable goods	825	821	80
Information Disklick in a factories	570	563	54
Publishing industries	118 106	117 106	117
Motion picture and sound recording industries		212	
Broadcasting and telecommunications	218 45	44	19-
Broadcasting, cable networks, and program distribution	173	168	
Telecommunications	173	128	15
Information services and data processing services			120
Finance (except depository institutions) and insurance	1,523	1,523	1,48°
Finance, except depository institutions	1,072	1,072	
Securities, commodity contracts, and other intermediation and related activities	578 494	578 494	56 48
Other finance, except depository institutions	494	494 451	48
Insurance carriers and related activities	451	451 474	
Professional, scientific, and technical services	480	474	45
Architectural, engineering, and related services			
Computer systems design and related services	170	165	15
Management, scientific, and technical consulting	96	95	9:
Advertising and related services	91	91	8
Other	81	81	3.60
Other industries	2,716		2,60
Agriculture, forestry, fishing, and hunting	32	32 31	3
Construction Retail trade			
	226 274		21
Transportation and warehousing			25
Real estate and rental and leasing	269		26
Real estate	130		12
Rental and leasing (except real estate)	139	139	13
Management of nonbank companies and enterprises	1,539		1,47
Administration, support, and waste management	109		10
Health care and social assistance Accommodation and food services	11	11	1
	148		14
Accommodation	65		6-
Food services and drinking places	83	83	7
Miscellaneous services	77	76	7:

USM United States Method FCS Fully Consolidated System EUM European Union Method

^{1.} The sample (covering more than 3/4 of the position in, and the total assets of, foreign affiliates) covers only affiliates for which the necessary chain-of-ownership information was filed on the 2002 BE-11 annual survey of U.S. direct investment abroad.