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SUMMARY OF FINDINGS

For 2001, value of shipments of the types of construction machinery included in this report, except motor graders, and light maintainers, scraper bowls, construction machinery for mounting on trucks, tractors, etc., and winches and other materials-handling equipment for mounting, decreased 17 percent to \$14,278.4 million, from \$17,113.5 million in 2000.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments for 2001 were \$2,706.3 million, a decrease of 17 percent from the previous year's total of \$3,255.3 million.

Value of shipments of mixers, pavers, and related equipment decreased from \$1,894.5 million in 2000 to \$1,461.0 million in 2001, a decrease of 23 percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons decreased by 11 percent in value of shipments to \$948.4 million in 2001, from \$1,062.9 million in 2000.

Shipments of tractor shovel loaders decreased from \$4,148.7 million in 2000 to \$3,751.7 million in 2001, a decrease of 10 percent. Crawler tractors, contractors' off-highway wheel tractors, dozers, and self-propelled wheeled log skidders decreased by 7 percent, from \$1,427.5 million in 2000 to \$1,322.9 million in 2001. Rollers and compactors decreased from \$676.5 million in 2000 to \$515.1 million in 2001.

Shipments of rough terrain forklifts (integral units only) decreased by 8 percent to \$552.5 million in 2001, from \$600.0 million for the prior year. Ditchers and trenchers, self-propelled (integral units only) decreased from \$566.4 million in 2000 to \$302.3 million for 2001. Construction machinery for mounting on trucks, tractors, and other prime movers, except winches, hoists, and other materials-handling equipment, decreased from \$312.1 million in 2000 to \$292.7 million in 2001. Aerial work platforms decreased 8 percent, from \$3,055.3 million in 2000 to \$2,312.0 million in 2001.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Richard S. Hough, 301-763-4823.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

U S C E N S U S B U R E A U

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Table 1. Value of Shipments for Selected Construction Machinery: 1997 to 2001
[Millions of dollars]

Product description	2001	2000	1999	1998	1997
Power cranes, draglines, and excavators, including surface mining equipment, attachments.....	2,706.3	3,255.3	3,124.7	2,645.1	2,927.4
Mixers, pavers, and related equipment.....	1,461.0	1,894.5	1,608.2	1,246.4	1,283.8
Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, wagons.....	948.4	1,062.9	834.6	1,425.6	1,596.3
Tractor shovel loaders.....	3,751.7	4,148.7	4,049.2	4,157.4	3,912.5
Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	1,322.9	1,427.5	1,382.2	1,985.6	1,720.3
Motor graders and light maintainers.....	(D)	557.5	(D)	(D)	(D)
Rollers and compactors.....	515.1	676.5	590.2	358.9	647.4
Rough-terrain forklifts.....	552.5	600.0	616.8	668.1	499.5
Scraper bowls.....	(D)	(D)	343.4	(D)	237.5
Self-propelled ditchers and trenchers (integral units).....	302.3	566.4	287.4	266.7	238.7
Construction machinery for mounting on trucks, tractors, etc.	(X)	(X)	(X)	(X)	(X)
Construction machinery (except winches and other materials-handling equipment) for mounting on trucks, tractors, etc.	292.7	312.1	274.8	278.3	258.6
Winches and other materials-handling equipment, for mounting.....	113.5	114.3	(D)	(D)	(D)
Aerial work platforms.....	2,312.0	3,055.3	2,491.8	1,571.0	(D)

D Withheld to avoid disclosing data for individual companies.

X Not applicable.

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2001 and 2000
 [Quantity in number of units. Value in millions of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.	(NA)	(X)	2,706,332	(X)	3,255,259
	Excavators, hydraulic operated:					
	Crawler mounted, rated size in metric tons:					
3331201111	Not more than 24 metric tons	8	9,734	392,644	11,442	496,484
3331201114	More than 24 but not more than 40 metric tons.	5	5,944	621,399	6,167	715,740
3331201117	More than 40 metric tons	5	1,076	264,211	1,301	347,678
3331201129	Wheel (rubber) mounted, all sizes.	2	(D)	(D)	(D)	(D)
	Cranes, lattice boom:					
	Crawler mounted, maximum working load:					
3331201132	Not more than 110 metric tons.	2	(D)	(D)	(D)	(D)
3331201134	More than 110 metric tons.	3 c/	366 a/	205,658	r/ 450	r/ 249,835
3331201145	Wheel (rubber) mounted	2	(D)	(D)	b/r/ 25	a/r/ 21,279
	Cranes, hydraulic-operated, telescopic boom:					
	Wheel cranes (integral), multiple control stations (rubber mounted), maximum working load of:					
3331201152	Not more than 18 metric tons	3	(D)	(D)	(D)	(D)
3331201154	More than 18 but not more than 27 metric tons	1	(D)	(D)	(D)	(D)
3331201156	More than 27 but not more than 50 metric tons	3 c/	152	40,581	r/ 245	r/ 70,138
3331201158	More than 50 metric tons	3 a/	309	106,981	r/ 311	r/ 111,002
3331201167	Pinned on type, telescopic and articulated.	6	2,756	103,245	r/ 3,271	159,232
	Wheel cranes, one control station (self-propelled, rubber mounted), maximum working load of:					
3331201171	Not more than 16 metric tons	6	578 a/	39,448	1,048	r/ 66,094
3331201174	More than 16 metric tons but not more than 22.7 metric tons	2	(D)	(D)	(D)	(D)
3331201177	More than 22.7 metric tons	2	(D)	(D)	(D)	(D)
	All-terrain cranes, maximum working loads of:					
3331201182	Not more than 20 metric tons	4	(D)	(D)	(D)	(D)
3331201184	More than 20 metric tons but not more than 35 metric tons	-	-	-	-	-
3331201186	More than 35 metric tons but not more than 110 metric tons.	2	(D)	(D)	(D)	(D)
3331201188	More than 110 metric tons	1	(D)	(D)	-	-
	Other cranes and excavators:					
3331201194	Pedestal or ship mounted marine cranes.	4	91	38,128	r/ 62	r/ 30,321
3331201199	All other cranes, excavators, and draglines, n.e.c.	5	(X)	(D)	(X)	r/ 140,358
	Attachments for power cranes, draglines, and excavators, sold separately:					
33312011A4	Hoe.	4 a/	19,263 c/	29,041	22,129	35,036
33312011A5	Dragline buckets, all sizes.	8 c/	1,885	98,948	r/ 2,002	r/ 103,035
33312011A7	Clamshell/grapple.	10 c/	1,502 a/	21,144	r/ 1,611	r/ 22,743
33312011AA	All other attachments, n.e.c.	21	(X) a/	161,458	(X)	140,782
33312012	Mixers, pavers, and related equipment.	(NA)	(X)	1,460,990	(X)	1,894,529
	For concrete, plaster, or mortar applications:					
3331201222	Concrete mixers (except plaster and mortar), portable, including truck or other mixer or agitator, all sizes.	13	(D)	(D)	(D)	(D)
3331201231	Plaster and mortar mixers, all sizes	5 c/	28,871	50,867	c/r/ 35,792	r/ 59,829
3331201233	Slipform concrete paving machines, including multipurpose, automated curb and gutter and concrete slipform pavers, up to and including 34-foot wide	12	(D)	(D)	(D)	(D)
3331201239	Concrete trowels	7	(D)	(D)	(D)	(D)
3331201241	Concrete vibrators (electric motor, gasoline engine, structural high-cycle, pneumatic, etc.)	9	30,593	19,357	35,995	r/ 21,796
3331201244	Concrete screeds (hand-propelled or winch type)	8	(D)	(D)	(D)	(D)
3331201247	Concrete batching plants, bin and batch, for concrete aggregate only and bulk cement.	11	488	97,005	r/ 557	r/ 105,360
3331201251	Concrete pumps, mobile	5	(D)	(D)	(D)	(D)
3331201256	Other concrete, plaster, and mortar mixing and paving machinery	5	(X)	11,404	(X)	r/ 13,392
	For asphalt or bituminous applications:					
3331201266	Bituminous distributors.	7 a/	578	21,076	a/ 628	23,031
	Bituminous pavers, self-propelled:					
3331201271	21,999 lb gross weight and under (basic unit)	6	1,170	53,663	1,407	62,067
3331201275	22,000 lb gross weight and over (basic unit)	4	552	108,454	763	143,568

Continued

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2001 and 2000
 [Quantity in number of units. Value in millions of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.	(NA)	(X)	2,706,332	(X)	3,255,259
	Asphalt plants, including cold mix central plants:					
3331201282	Less than 7,500 lb (239 tph).	3 b/	67	22,842	b/r/ 41	r/ 16,474
3331201284	7,500 lb and over (240 tph and over).	4 b/	93	195,631	a/r/ 146	291,270
3331201286	Bituminous stabilization mixing equipment, central mixing plants and mix-in-place).	5	(D)	(D)	r/ 164	r/ 46,548
3331201289	Bituminous cold planers/milling machines (self-propelled)	3	(D)	(D)	c/r/ 271	r/ 88,663
3331201291	Other asphalt and bituminous mixing and paving machinery.	9	(X)	47,164	(X)	r/ 52,970
3331201295	Other products, for use in either concrete or bituminous applications.	10	(X)	40,618	(X)	r/ 51,203
33312013	Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons.	(NA)	(X)	948,408	(X)	1,062,877
3331201371	Off-highway rear dump haulers	7	2,009	773,047	(D)	(D)
3331201376	Other	7	(X) a/	175,361	(X)	(D)
33312014	Tractor shovel loaders	(NA)	(X)	3,751,670	(X)	4,148,654
3331201460	Skid steer loaders, 4-wheel drive skid steer, all sizes. Wheel loaders, rear engine mount, integral design, 4-wheel drive, nonskid steer:	5	64,174	1,093,252	76,867	1,270,642
	Under 79 neh.	3	146	4,525	a/r/ 264	b/r/ 9,610
3331201475	80 through 149 neh.	8	5,946	506,720	6,428	561,617
3331201479	150 through 249 neh.	7	3,444	443,958	r/ 3,884	r/ 500,337
3331201483	250 neh and over.	5	(D)	(D)	(D)	(D)
3331201488	Crawler loaders.	2	(D)	(D)	(D)	(D)
3331201495	Integral design tractor shovel loader/backhoes (wheel tractor-chassis shipped as part of front engine mount contractor tractor).	6	27,382	944,792	r/ 33,537	1,033,708
33312015	Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders	(NA)	(X)	1,322,914	(X)	1,427,454
3331201577	Wheeled log skidders, self-propelled	7	(D)	(D)	(D)	(D)
3331201599	Crawler tractors (except crawler loaders) and track-laying and other contractors' off-highway-type wheel tractors and dozers.	10	(D)	(D)	(D)	(D)
33312016 pt.	Motor graders and light maintainers.	(NA)	(X)	(D)	(X)	557,543
3331201661	Under 144 neh.	5	(D)	(D)	(D)	(D)
3331201667	145 neh and over.	3	(D)	(D)	(D)	(D)
33312016 pt.	Rollers and compactors	(NA)	(X)	515,129	(X)	676,456
	Static smooth steel wheel rollers, tandem:					
3331201671	Under 3 metric tons.	5	340	2,602	553	4,084
3331201673	At least 3 but less than 5.5 metric tons.	2	(D)	(D)	(D)	(D)
3331201676	5.5 metric tons and over	2	(D)	(D)	(D)	(D)
3331201682	Pneumatic tire rollers.	4	399	20,035	r/ 701	r/ 33,237
	Vibratory single drum with 1 or 2 drive wheels:					
3331201687	Under 5 metric tons.	9	781	21,665	r/ 1,707	r/ 45,603
3331201689	At least 5 but less than 8 metric tons	3	(D)	(D)	r/ 797	r/ 49,117
3331201692	8 metric tons and over	4	(D)	(D)	r/ 1,968	r/ 142,903
	Vibratory double drum, two drums vibrating:					
3331201696	Under 5 metric tons.	6	2,010	39,692	r/ 3,728	r/ 65,383
3331201699	At least 5 but less than 8 metric tons	2	(D)	(D)	(D)	(D)
33312016A2	8 metric tons and over	3	550	44,533	r/ 1,078	r/ 93,803
33312016A6	All other compaction equipment (except handheld); including, embankment and landfill compactors, towed roller and double drum compactors with one drum vibrating.	7	(X)	229,985	(X)	211,654
33312016 pt.	Rough terrain forklifts (integral units only).	(NA)	(X)	552,495	(X)	599,994
33312016D1	Vertical mast, 2-wheel drive	10 b/	1,829	c/ 127,578	r/ 2,266	r/ 159,028
33312016D3	Vertical mast, 4-wheel drive	9	607	23,027	r/ 521	r/ 19,011
33312016D5	Telescopic handlers, 2- and 4-wheel drive.	7	6,061	401,890	6,618	421,955
33312016E5	Scraper bowls.	4	(D)	(D)	(D)	(D)

Continued

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2001 and 2000
 [Quantity in number of units. Value in millions of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.	(NA)	(X)	2,706,332	(X)	3,255,259
33312016 pt.	Ditchers and trenchers, self-propelled (integral units only)	(NA)	(X)	302,327	(X)	566,392
	Ladder-type digging element:					
33312016J3	Under 2,000 lb gross weight.	5	(D)	(D)	(D)	(D)
33312016J5	2,000 to 4,999 lb gross weight	4	1,825	50,327	(D)	(D)
33312016J7	5,000 lb gross weight and over.	5	2,224	215,510	r/ 6,462	r/ 412,008
33312016JJ	Wheel-type digging element	4	(D)	(D)	(D)	(D)
33312017	Construction machinery for mounting on trucks, tractors, and other prime movers (except winches, hoists, and other materials-handling equipment). . . .	(NA)	(X)	292,697	(X)	312,071
3331201782	Backhoes, either shipped for mounting separately or already mounted on an integral unit.	8	15,657	89,559	17,097	112,043
3331201799	All other including sidebooms, pipehandlers, dozers, front-end loaders, shovel loaders, logging arches, rippers, rooters, continuous ditching and trenching attachments, forklift attachments, cranes, cable power control units, hydraulic power control units, etc.	27	(X)	203,138	(X)	200,028
33392372 pt.	Winches and materials-handling equipment for mounting.	(NA)	(X)	113,458	(X)	114,326
3339237231	Winches (towing, logging, and oil field types).	8	(D)	(D)	(D)	(D)
3339237239	Other equipment.	2	(X)	(D)	(X)	(D)
33392372 pt.	Aerial work platforms.	(NA)	(X)	2,312,010	(X)	3,055,285
3339237211	Boom type, self-propelled.	8	26,006	974,747	35,675	1,194,862
3339237213	Scissors type, self-propelled.	7	22,606	439,505	b/ 37,672	a/ 749,923
3339237215	Not self-propelled, boom and scissors type.	5	(D)	(D)	(D)	(D)
3339237217	Truck mounted.	12	(D)	(D)	(D)	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. neph Net engine horsepower. n.e.c. Not elsewhere classified. pt. Part. r/Revised by 5 percent or more from previously published data. tph Tons per hour. X Not applicable.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent or more of this item is estimated.

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2001 and 2000
 [Quantity in number of units. Value in millions of dollars]

Product description	Manufacturers' shipments 1/		Export shipments 3/		Imports for consumption 4/	
	Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
2001						
Wheel tractors, contractors' off-highway type, 2- and 4- wheel for use on natural terrain	(D)	(D)	3,237	72,417	1,392	20,015
Rubber-tired dozers	(D)	(D)	209	15,386	39	1,620
Wheeled log skidders, self-propelled.	(D)	(D)	800	37,440	180	23,653
Crawler tractors (except crawler loaders).	(D)	(D)	855	224,071	3,852	228,197
Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.	(D)	(D)	13,803	547,140	5,640	381,417
Skid steer loaders.	64,174	1,093,252	2,269	53,282	1,592	69,321
Crawler loaders	(D)	(D)	80	4,470	1,191	154,560
Excavators, hydraulic operated, crawler mounted.	16,754	1,278,254	2,512	262,127	12,385	798,878
Excavators, hydraulic operated, wheel (rubber) mounted	(D)	(D)	97	8,262	441	35,743
Cranes, lattice boom, wheel (rubber) mounted.	(D)	(D)	248	38,467	121	36,784
Cranes, wheel (integral), hydraulic operated, telescopic boom, multiple control stations (rubber mounted), including pinned on type, telescopic and articulated	4,016	293,139	290	40,408	506	113,327
Cranes, wheel, hydraulic operated, telescopic boom, one control station (self-propelled, rubber mounted)	(D)	(D)	491	39,901	140	20,017
Cranes, pedestal or ship mounted	91	38,128	1,006	15,694	1,133	25,819
Cranes, other	(D)	(D)	408	91,508	1,708	197,465
Clamshell/grapple attachments	(D)	(D)	1,044	2,325	3,046	5,297
Dragline buckets (attachments).	1,885	98,948	-	-	3,450	5,127
Concrete mixers	(D)	(D)	2,203	22,655	67,921	42,605
Concrete pavers, finishers, and spreaders	18,897	145,756	1,073	34,730	668	1,124
Concrete pumps.	(D)	(D)	2,383	18,356	4,295	40,396
Bituminous pavers, finishers, and spreaders	(D)	(D)	658	30,624	154	1,578
Asphalt plants and bituminous stabilization mixing equipment	(D)	(D)	424	18,854	74	1,268
Scraper bowls	(D)	(D)	463	192	527	25,856
Motor graders and light maintainers	(D)	(D)	1,913	187,946	695	68,605
Self-propelled vibratory compaction equipment	(D)	(D)	2,650	49,997	3,928	69,745
Self-propelled static compaction equipment.	(D)	(D)	928	42,328	1,029	18,443
Off-highway rear dump haulers, trucks, and truck trailers, including ridged and articulated	2,009	773,047	2,410	659,801	1,862	319,708
Off-highway trucks, truck-type tractor chassis, trailers, and wagons	(X)	175,361	824	78,082	274	28,034
Winches for mounting (towing, logging, and oil field types)	(D)	(D)	474,285	81,341	3,352,795	85,202
Backhoes for mounting	15,657	89,559	10,606	33,167	16,740	3,481
Other construction machinery for mounting	(X)	(D)	13,472	37,395	57,850	77,116
Self-propelled continuous ditchers and trenchers (integral units), ladder-type digging element.	(D)	(D)	1,195	18,345	13	16
Self-propelled continuous ditchers and trenchers integral units), wheel-type digging element	(D)	(D)	368	12,034	120	3,567
2000						
Wheel tractors, contractors' off-highway type, 2- and 4- wheel for use on natural terrain	(D)	(D)	4,031	85,677	1,599	21,696
Rubber-tired dozers	(D)	(D)	190	9,818	123	5,305
Wheeled log skidders, self-propelled.	(D)	(D)	1,300	70,166	530	60,012
Crawler tractors (except crawler loaders).	(D)	(D)	1,098	228,057	3,837	263,205
Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.	(D)	(D)	13,936	572,556	6,206	384,180
Skid steer loaders.	76,867	1,270,642	2,767	77,224	2,210	78,763
Crawler loaders	(D)	(D)	85	4,392	1,540	181,928
Excavators, hydraulic operated, crawler mounted.	18,910	1,559,902	2,732	294,038	15,331	1,011,692
Excavators, hydraulic operated, wheel (rubber) mounted	(D)	(D)	72	7,074	718	57,108

Continued

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 [Quantity in number of units. Value in millions of dollars]

Product description	Manufacturers' shipments 1/		Export shipments 3/		Imports for consumption 4/	
	Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
Excavators, hydraulic operated, wheel (rubber) mounted	(D)	(D)	72	7,074	718	57,108
Cranes, lattice boom, wheel (rubber) mounted.	25	21,279	1,337	93,613	157	44,765
Cranes, wheel (integral), hydraulic operated, telescopic boom, multiple control stations (rubber mounted), including pinned on type, telescopic and articulated	3,827	340,372	435	45,191	469	146,360
Cranes, wheel, hydraulic operated, telescopic boom, one control station (self-propelled, rubber mounted)	(D)	(D)	438	38,680	158	29,172
Cranes, pedestal or ship mounted	62	30,321	1,040	13,711	1,974	24,977
Cranes, other	(D)	(D)	902	108,381	542	119,431
Clamshell/grapple attachments	1,611	22,743	1,897	4,297	3,219	7,252
Dragline buckets (attachments).	2,002	103,035	-	-	1,927	4,504
Concrete mixers	(D)	(D)	1,999	16,794	61,924	46,730
Concrete pavers, finishers, and spreaders	59,759	169,890	1,148	26,495	4,073	6,316
Concrete pumps.	(D)	(D)	1,475	16,489	10,068	44,831
Bituminous pavers, finishers, and spreaders	3,069	275,214	834	34,439	360	1,412
Asphalt plants and bituminous stabilization mixing equipment	351	354,292	588	25,126	52	988
Scraper bowls	(D)	(D)	37	202	681	16,939
Motor graders and light maintainers	(X)	557,543	2,412	192,591	609	48,761
Self-propelled vibratory compaction equipment	(D)	(D)	1,895	53,286	6,855	116,946
Self-propelled static compaction equipment.	(D)	(D)	1,049	32,574	856	17,654
Off-highway rear dump haulers, trucks, and truck trailers, including ridged and articulated	(X)	(D)	3,387	617,716	1,796	334,110
Off-highway trucks, truck-type tractor chassis, trailers, and wagons	(D)	(D)	1,404	100,332	536	46,633
Winches for mounting (towing, logging, and oil field types)	(D)	(D)	504,379	73,774	3,020,901	80,462
Backhoes for mounting	17,097	112,043	8,419	30,407	4,015	2,118
Other construction machinery for mounting	(D)	(D)	13,057	36,350	55,491	83,475
Self-propelled continuous ditchers and trenchers (integral units), ladder-type digging element.	(D)	(D)	1,287	21,058	-	-
Self-propelled continuous ditchers and trenchers (integral units), wheel-type digging element	(D)	(D)	388	11,561	231	12,668

- Represents zero. D Withheld to avoid disclosing data for individual companies. X Not applicable.

1/For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes, and HTSUSA import codes, see Table 4.

2/Value f.o.b. plant.

3/Source: Census Bureau report EM 545, U.S. Exports.

4/Source: Census Bureau report IM 145, General Imports, and IM 146, U.S. Imports for Consumption.

5/Value represents c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus import duties.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3331201599 pt.	Wheel tractors, contractors' off-highway type, 2- and 4-wheel for use on natural terrain.....	8701.90.5015	8701.90.5015
		8701.90.5020	8701.90.5020
		8701.90.5025	8701.90.5025
3331201599 pt.	Rubber-tired dozers.....	8429.19.0010	8429.19.0010
3331201577	Wheeled log skidders, self-propelled.....	8701.90.1001	8701.90.1001
3331201599 pt.	Crawler tractors (except crawler loaders).....	8701.30.0015	8701.30.1015
		8701.30.0030	8701.30.1030
		8701.30.0045	8701.30.1045
		8701.30.0060	8701.30.1060
		8701.30.0075	8701.30.1075
			8701.30.5015
			8701.30.5030
			8701.30.5045
	8701.30.5060		
	8701.30.5075		
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.....	8429.51.1015	8429.51.1015
		8429.51.1025	8429.51.1025
		8429.51.1030	8429.51.1030
		8429.51.1035	8429.51.1035
		8429.51.1040	8429.51.1040
		8429.51.1045	8429.51.1045
		8429.51.1050	8429.51.1050
		8429.51.1055	8429.51.1055
3331201460	Skid steer loaders.....	8429.51.1060	8429.51.1060
3331201488	Crawler loaders.....	8429.51.5010	8429.51.5010
		8429.51.5020	8429.51.5020
		8429.51.5030	8429.51.5030
		8429.51.5040	8429.51.5040
		8429.51.5050	8429.51.5050
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted...	8429.52.1010	8429.52.1010
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	8429.52.1030	8429.52.1030
3331201145	Cranes, lattice boom, wheel (rubber) mounted.....	8426.41.0010	8426.41.0010
		8705.10.0010	8705.10.0010
3331201152, 154, 156, 158, 167	Cranes, wheel (integral), hydraulic operated telescopic boom, multiple control stations (rubber mounted) stations, including pinned on type, telescopic and articulated.....	8705.10.0050	8705.10.0050

Continued

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3331201599 pt.	Wheel tractors, contractors' off-highway type, 2- and 4-wheel for use on natural terrain.....	8701.90.5015 8701.90.5020	8701.90.5015 8701.90.5020
3331201171, 174, 177	Cranes, wheel, hydraulic operated, telescopic boom, one control station (self-propelled, rubber mounted).....	8426.41.0090	8426.41.0090
3331201194	Cranes, pedestal or ship mounted.....	8426.30.0000	8426.30.0000
3331201132, 134, 182, 184, 186, 188, 199	Cranes, other.....	8426.49.0010 8426.49.0090 8429.52.1020	8426.49.0010 8426.49.0090 8429.52.1020
33312011A7	Clamshell/grapple attachments for power cranes, draglines, and excavators, sold separately.....	8431.41.0040	8431.41.0040
33312011A5	Dragline bucket attachments for power cranes, draglines, and excavators, sold separately.....	8431.41.0060	8431.41.0060
3331201222, 231, 247	Concrete mixers.....	8474.31.0000	8474.31.0000
3331201233, 239, 239, 244	Concrete pavers, finishers, and spreaders.....	8479.10.0040	8479.10.0040
3331201251	Concrete pumps.....	8413.40.0000	8413.40.0000
3331201266, 271, 275, 289	Bituminous pavers, finishers, and spreaders.....	8479.10.0060	8479.10.0060
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment.....	8474.32.0000	8474.32.0000
33312016E5	Scraper bowls.....	8431.49.9045	8431.49.9045
3331201661, 667	Motor graders and light maintainers.....	8429.20.0000	8429.20.0000
3331201687, 689, 692, 696, 699, 6A2, 6A6	Self-propelled vibratory compaction equipment.....	8429.40.0020	8429.40.0020
3331201671, 673, 676, 682	Self-propelled static compaction equipment.....	8429.40.0040	8429.40.0040

Continued

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3331201599 pt.	Wheel tractors, contractors' off-highway type, 2- and 4-wheel for use on natural terrain.....	8701.90.5015 8701.90.5020	8701.90.5015 8701.90.5020
3331201371	Off-highway rear dump haulers, trucks and truck trailers, including ridged and articulated.....	8704.10.5020 8704.10.5030 8704.10.5040 8704.10.5050	8704.10.5020 8704.10.5030 8704.10.5040 8704.10.5050
3331201376	Off-highway trucks, truck-type tractor chassis, trailers, and wagons	8704.10.5060 8704.10.1000	8704.10.5060 8704.10.1000
3339237231	Winches for mounting (towing, logging, and oil field types).....	8425.31.0000 8425.39.0000	8425.31.0000 8425.39.0000
3331201782	Backhoes for mounting (whether or not mounted on an integral unit).....	8431.49.9005	8431.49.9005
3331201799, 3339237239	Other construction machinery for mounting, including sidebooms, pipehandlers, dozers, front-end loaders, rippers, and rooters.....	8428.90.0030 8428.90.8030 8431.42.0000 8431.49.9010 8431.49.9015	8428.90.0030 8428.90.8030 8431.42.0000 8431.49.9010 8431.49.9015
33312016J3, 6J5, 6J7	Self-propelled continuous ditchers and trenchers (integral units), ladder-type digging element.....	8429.59.5020	8429.59.5020
33312016JJ	Self-propelled continuous ditchers and trenchers (integral units), wheel-type digging element.....	8429.59.5040	8429.59.5040

pt. Part.

1/Source: 2001 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2001).

Appendix.

General CIR Survey Information, Explanation of General Terms and Historical Note

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on construction machinery have been collected by the Census Bureau since 1942. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.