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SUMMARY OF FINDINGS

For 2003, value of shipments of the types of construction machinery included in this report, except motor graders, and light maintainers, construction machinery for mounting on trucks, tractors, etc., and scraper bowls increased by 4.8 percent to \$12,662.9 million, from \$12,079.8 million in 2002.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments totaled \$2,732.4 million for 2003, an increase of 12.0 percent from the 2002 total of \$2,440.3 million.

Value of shipments of mixers, pavers, and related equipment decreased from \$1,211.2 million in 2002 to \$1,147.1 million in 2003, a decrease of 5.3 percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons decreased by 9.6 percent to \$741.4 million in 2003, from \$819.8 million in 2002.

Shipments of tractor shovel loaders increased from \$3,413.1 million in 2002 to \$3,949.7 million in 2003, an increase of 15.7 percent. Rollers and compactors increased from \$422.8 million in 2002 to \$481.2 million in 2003.

Shipments of rough terrain forklifts (integral units only) decreased by 15.2 percent to \$368.9 million in 2003, from \$435.0 million in 2002. Ditchers and trenchers, self-propelled (integral units only) decreased from \$146.9 million in 2002 to \$97.0 million for 2003. Construction machinery for mounting on trucks, tractors, and other prime movers, except winches, hoists and other materials-handling equipment, increased from \$238.2 million in 2002 to \$275.7 million in 2003. Aerial work platforms decreased 12.8 percent, from \$1,586.2 million in 2002 to \$1.383.2 million in 2003.

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 Rachel Horwitz, 301-763-2834.

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USCENSUSBUREAU

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Table 1. Value of Shipments for Selected Construction Machinery: 1999 to 2003 [(Value in millions of dollars]

Product description	2003		2002	2001	2000	1999
Power cranes, draglines, and excavators, including surface mining equipment, and						
attachments	2,732.4		2,440.3	2,724.4	3,255.3	3,124.7
Mixers, pavers, and related equipment	1,147.1		1,211.2	1,431.2	1,894.5	1,608.2
Off-highway trucks, truck-type tractor chasis,						
trailers, coal haulers, wagons	741.4		819.8	947.3	1,062.9	834.6
Tractor shovel loaders	3,949.7		3,413.1	3,751.7	4,148.7	4,049.2
Crawler tractors, contractors' off-highway- type wheel tractors, dozers, and self-						
propelled wheeled log skidders	(D)		(D)	1,322.9	1,427.5	1,382.2
Motor graders and light maintainers	(D)		(D)	(D)	557.5	(D)
Dollars and compactors	481.2		422.8	474.7	676.5	590.2
Rollers and compactors	368.9	n/	435.0	623.2	600	616.8
Rough-terrain forklifts		1/			(D)	343.4
Scraper bowlsSelf-propelled ditchers and trenchers	(D)		(D)	(D)	(D)	343.4
(integral units)	97.0	r/	146.9	305.1	566.4	287.4
Construction machinery (except winches and other materials-handling equipment) for						
mounting on trucks, and tractors, etc.	275.7		238.2	267.729	312.1	274.8
Winches and other materials-handling						
equipment, for mounting	(D)		(D)	113.458	114.3	(D)
Aerial work platforms	1,383.2		1,586.2	2,257.3	3,055.3	2,491.8

D Withheld to avoid disclosing data for individual companies. from previously published data.

r/Revised 5 percent or more

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2003 and 2002 [Quantity in units. Value in thousands of dollars]

Duo duot	Duo duo et do coninti cu	No.		2003		3 2002		2002
Product code	Product description	of cos.		Quantity		Value	Quantity	Value
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments	(NA)		182,673		2,732,440	178,823	2,440,299
333120111	Not more than 24 metric tons	7		11,410		558,132	9,971	429,635
3331201114 3331201117 3331201129	40 metric tons	5 4 2		5,230 1,265 (D)		699,182 308,105 (D)	4,486 1,159 (D)	577,788 278,773 (D)
3331201132 3331201134 3331201145 3331201146	Not more than 110 metric tons	3 3 3	b/	41 (D) (D)	b/	20,335 (D) (D)	(D) (D) (D)	(D) (D) (D)
3331201152 3331201153	Not more than 18 metric tons More than 18 but not more than	3	c/	19	b/	1,208	89	9,601
3331201156	27 metric tons	2		(D)		(D)	(D)	(D)
3331201158 3331201167	50 metric tons	4 4 5	b/	2,624 208 (D)	b/	49,799 81,592 (D)	2,575 220 2,224	33,891 74,594 109,297
3331201171 3331201174	Not more than 16 metric tons More than 16 metric tons but not	7		442	a/	28,655	490	30,656
3331201177	more than 22.7 metric tons	1 2		(D) (D)		(D) (D)	(D) (D)	(D) (D)
3331201182 3331201184	Not more than 20 metric tons More than 20 metric tons but not more than 35 metric tons	2		(D)		(D)	(D)	(D)
3331201186	More than 35 metric tons but not more than 110 metric tons	2		(D)		(D)	(D)	(D)
3331201188	More than 110 metric tons Other cranes and excavators:	1		(D)		(D)	(D)	(D)
3331201194 3331201199	Pedestal or shipmounted marine cranes All other cranes, excavators, and	4	c/	143	c/	67,479	163	c/ 74,851
	draglines, n.e.c	5		840		132,135	777	116,017
33312011A 33312011A5 33312011A7 33312011AA	HoeDragline buckets, all sizesClamshell/grappleAll other attachments, n.e.c.	5 6 10 18	a/ c/ c/ a/	22,979 725 1,618 131,578	b/ a/ c/ b/	36,318 58,565 22,057 123,696	20,027 955 1,442 132,419	32,016 74,286 18,308 131,861
33312012	Mixers, pavers, and related equipment For concrete, plaster, or mortar applications:	(NA)		69,276		1,147,067	64,964	1,211,162
3331201222	Concrete mixers (except plaster and mortar), portable, including truck or	^		(B)		(E)	(P)	
3331201231	other mixer or agitator, all sizes Plaster and mortar mixers, all sizes	9		(D) (D)		(D) (D)	(D) (D)	(D) (D)

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2003 and 2002 [Quantity in units. Value in thousands of dollars]

ъ 1 .		No.			200	3		2002
Product code	Product description	of cos.		Quantity		Value	Quantity	Value
3331201233	Slipform concrete paving machines, including multipurpose, automated curb and gutter and concrete slipform pavers, up to and including 34 feet wide	10	2/	581	2/	72,776	563	72,560
3331201239 3331201241	Concrete vibrators (electric motor, gasoline engine, structural high-	6	a/	13,861	a/	25,557	9,446	17,602
3331201244	cycle, pneumatic, etc.)	9		27,486		16,325	29,526	18,848
3331201247	winch type) Concrete batching plants, bin and	8		4,166		27,442	(D)	(D)
3331201251	batch, for concrete aggregate only and bulk cement	10 2	a/	310 (D)	b/	63,440 (D)	591 (D)	67,885 (D)
3331201256	Other concrete, plaster, and mortar mixing and paving machinery	4	b/	451	a/	5,192	770	9,855
3331201266	For asphalt or bituminous applications: Bituminous distributors Bituminous pavers, self-propelled:	8	a/	828	a/	21,567	638	20,814
3331201271	21,999 lb gross weight and under (basic unit)	4	a/	1,040	a/	47,398	1,091	50,984
3331201275	22,000 lb gross weight and over (basic unit)	5		385		79,848	534	101,339
3331201282 3331201284 3331201286	central plants: Less than 7,500 lb (239 tph)	2 4	c/	(D) 60	c/	(D) 120,180	(D) 93	(D) 178,686
3331201289	equipment, including central mixing plants and mix-in-place Bituminous cold planers/milling	4	a/	146	a/	44,214	154	47,235
3331201289	machines (self-propelled) Other asphalt and bituminous mixing	4	b/	75	b/	30,212	77	31,777
3331201295	and paving machinery Other products, for use in either concrete	7	b/	313	a/	27,076	357	28,686
	or bituminous applications	12		3,754		34,946	2,808	40,315
33312013 3331201371 3331201376	Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons Off-highway rear dump haulers Other	(NA) 7 7	a/	3,883 1,586 2,297	a/	741,413 602,581 138,832	3,743 1,927 1,816	819,802 702,964 116,838
33312014 3331201460	Tractor shovel loaders	(NA)		102,524		3,949,691	94,075	3,413,075
3331201400	steer, all sizes	6		65,494		1,392,024	60,616	1,120,639
3331201471 3331201475 3331201479 3331201483 3331201488 3331201495	Under 79 nehp	3 10 6 5 2		(D) 5,617 3,940 1,661 (D)		(D) 512,441 523,946 565,463 (D)	(D) 5,368 3,022 1,772 (D)	(D) 467,455 397,584 572,751 (D)
33312015	Crawler tractors, contractors' off-highway-	6		25,515		929,368	22,911	824,187
3331201577	type wheel tractors, dozers, and self- propelled wheeled log skidders	(NA) 7		(D) 1,756		(D) 253,922	(D) 1,445	(D) 200,622

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2003 and 2002 [Quantity in units. Value in thousands of dollars]

Draduct	Duodust decoriation	No. of		2003	3			2002	
Product code	Product description	cos.	Quantity		Value		Quantity		Value
3331201599	Crawler tractors (except crawler loaders) and tracklaying and other contractors' off-highway-type wheel tractors and								
	dozers	11	(D))	(D)		(D)		(D)
33312016 pt. 3331201661	Motor graders and light maintainers Under 144 nehp	(NA) 5	(D) 880		(D) 88,150		(D) 1,166		(D) 109,171
3331201667	145 nehp and over	2	(D)		(D)		(D)		(D)
33312016 pt.	Rollers and compactors	(NA)	67,437		481,196		44,836		422,825
3331201671	Under 3 metric tons	3	(D		(D)		(D)		(D)
3331201673 3331201676	At least 3 but less than 5.5 metric tons 5.5 metric tons and over	2 2	(D) (D)		(D) (D)		(D) (D)		(D) (D)
3331201676	Pneumatic tire rollers	5	360		17,507		370		16,399
3331201002	Vibratory single drum with one or two drive wheels:	3	300		17,307		370		•
3331201687	Under 5 metric tons	8	864		21,646	r/	663	r/	15,955
3331201689	At least 5 but less than 8 metric tons	4	(D)		(D)		(D)		(D)
3331201692	8 metric tons and over Vibratory double drum, two drums vibrating:	5	(D))	(D)		(D)		(D)
3331201696	Under 5 metric tons	4	(D))	(D)		(D)		(D)
3331201699	At least 5 but less than 8 metric tons	2	(D))	(D)		(D)		(D)
33312016A2	8 metric tons and over	3	599)	51,768		568		46,068
33312016A6	All other compaction equipment (except hand-held); including embankment and landfill compactors, towed roller and								
	double drum compactors with one drum vibrating	8	60,926	i	211,764		38,665	r/	169,628
33312016 pt.	Rough terrain forklifts (integral units only)	(NA)	7,727	,	368,882		8,821	r/	435,015
33312016D1	Vertical mast, 2-wheel drive	8	a/ 1,676		56,086	r/	1,359	r/	49,761
33312016D3	Vertical mast, 4-wheel drive	9	b/ 629		20,380	,	1,081	,	21,184
33312016D5	Telescopic handlers, 2- and 4-wheel drive	8	5,422		292,416		6,381		364,070
33312016E5	Scraper bowls	4	(D)	(D)		(D)		(D)
33312016 pt.	Ditchers and trenchers, self-propelled								
	(integral units only)	(NA)	5,443		96,996		6,249	r/	146,933
33312016J3	Ladder-type digging element: Under 2,000 lb gross weight	4	(D)	`	(D)		(D)		(D)
33312016J5 33312016J5	2,000 to 4,999 lb gross weight	3	(D)		(D) (D)		1,357	r/	(D) 28,374
33312016J7	5,000 lb gross weight and over	4	b/ 360		25,115	r/	1,007	r/	85,934
33312016JJ	Wheel-type digging element	3	a/ 39		12,323	-/	(D)	-,	(D)
33312017	Construction machinery for mounting on trucks, tractors, and other prime movers								
3331201782	(except winches, hoists, and other materials-handling equipment)	(NA)	77,685		275,696		69,458		238,162
3331201762	separately or already mounted on an integral unit	8	15,109	1	86,435		14,217		77,866
3331201799	All other, including sidebooms, pipe-handlers, 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	0	15,109		60,433		14,217		77,000
	units, etc.	27	a/ 62,576	b/	189,261	b/r/	55,241		160,296

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2003 and 2002 [Quantity in units. Value in thousands of dollars]

Product	Due donné des suitables	No.		2003		2002		
Product Product description code	Product description	of cos.	Quantity	Value	Quantity	Value		
33392372 pt.	Winches and materials-handling equipment							
222222	mounting	(NA)	(D)	(D)	(D)	(D)		
3339237231	Winches (towing, logging, and oil field	0	12.000	66.600	15.040	- 0.000		
	types)	8	13,293	66,023	15,646	70,936		
3339237239	Other equipment	2	(D)	(D)	(D)	(D)		
33392371 pt.	Aerial work platforms	(NA)	59,998	1,383,233	71,814	1,586,159		
3339237111	Boom type, self-propelled	7	(D)	(D)	13,279	723,397		
3339237113	Scissors type, self-propelled	5	(D)	(D)	23,148	297,685		
3339237115	Not self-propelled, boom and scissors type	4	(D)	(D)	(D)	(D)		
3339237117	Truck mounted	11	14,312	524,483	(D)	(D)		

⁻ Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. nehp Net engine horsepower. pt. Partial. r/Revised by 5 percent or more from previously published data.

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 of this item is estimated.

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2003 and 2002 [Quantity in number of units. Value in thousands of dollars]

Product description		Manufacturers' shipments 1/		ort ents 3/		port ents 4/
	Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
2003						
Wheel tractors, contractors' off-highway type,						
2- and 4- wheel for use on natural terrain Rubber-tired dozers	(D) (D)	(D) (D)	2,437 213	67,559 24,424	1,653 102	23,374 3,275
Wheeled log skidders, self-propelled	1,756	253,922	857	56,405	336	35,087
Crawler tractors (except crawler loaders)	(D)	(D)	782	209,253	4,725	313,168
Wheel loaders, rear engine mount, integral design						
4-wheel drive, nonskid steer	(D)	(D)	17,343	629,690	8,179	396,496
Skid steer loaders	65,494	1,392,024	1,005	55,947	3,975	123,772
Crawler loaders Excavators, hydraulic operated, crawler mounted	(D) 17,905	(D) 1,565,419	319 429	12,106 49,560	1,283 17,583	152,986 1,080,444
Excavators, hydraulic operated, wheel (rubber)	17,505	1,303,413	423	49,500	17,303	1,000,444
mounted	(D)	(D)	25	3,955	637	74,753
Cranes, lattice boom, wheel (rubber) mounted	(D)	(D)	326	44,767	88	13,597
Cranes, wheel (integral), hydraulic operated,						
telescopic boom, multiple control stations						
(rubber mounted), including pinned on type, telescopic and articulated	(D)	(D)	429	49,560	252	85,982
Cranes, wheel, hydraulic operated, telescopic	(D)	(D)	423	49,300	232	63,962
boom, one control station (self-propelled, rubber						
mounted)	(D)	(D)	341	31,920	46	8,814
Cranes, pedestal or ship mounted	143	67,479	1,639	21,970	3,696	39,615
Cranes, other	(D)	(D)	494	90,732	593	82,174
Clamshell/grapple attachments	1,618 725	22,057 58,565	786	1,595	10,483	7,970
Dragline buckets (attachments) Concrete mixers	(D)	36,303 (D)	2,334	16,807	8,011 99,589	6,868 53,780
Concrete pavers, finishers, and spreaders	18,608	125,775	1,211	38,087	3,291	4,696
Concrete pumps	(D)	(D)	1,898	29,379	785	32,215
Bituminous pavers, finishers, and spreaders	2,328	179,025	520	26,528	803	5,866
Asphalt plants and bituminous stabilization mixing	(D)	(D)	227	12.500	0.0	2.010
equipment Scraper bowls	(D) (D)	(D) (D)	237 42	13,599 268	88 324	2,812 17,257
Motor graders and light maintainers	(D) (D)	(D) (D)	2,425	236,360	890	87,006
Self-propelled vibratory compaction equipment	(D)	(D)	2,323	45,239	9,721	103,975
Self-propelled static compaction equipment	(D)	(D)	727	25,223	687	16,764
Off-highway rear dump haulers, trucks, and						
truck trailers, including ridged and articulated	1,586	602,581	2,013	651,031	2,423	464,339
Off-highway trucks, truck-type tractor chassis, trailers, and wagons	2,297	138,832	498	37,929	360	11,083
Winches for mounting (towing, logging, and oil	2,297	130,032	496	37,929	300	11,065
field types)	13,293	66,023	457,096	91,207	3,104,415	136,470
Backhoes for mounting	15,109	86,435	9,644	28,635	23,762	12,694
Other construction machinery for mounting	(D)	(D)	21,912	65,699	64,117	70,159
Self-propelled continuous ditchers and trenchers	(D)	(D)	. 700	14007		4.0.5
(integral units), ladder-type digging element	(D)	(D)	1,723	14,927	14	465
integral units), wheel-type digging element	39	12,323	614	11,144	34	1,367
integral units), wheel type digging element	33	12,323	011	11,111	31	1,507
2002						
Wheel tractors, contractors' off-highway type,						
2- and 4- wheel for use on natural terrain	(D)	(D)	2,244	44,049	1,772	20,484
Rubber-tired dozers	(D)	(D)	244	13,995	32	1,593
Wheeled log skidders, self-propelled	1,445	200,622	715	41,124	160	19,899
Crawler tractors (except crawler loaders)	(D)	(D)	920	226,808	3,986	232,956
4-wheel drive, nonskid steer	(D)	(D)	16,062	557,671	7,250	356,177
	(2)	(2)	_ 5,50=	- 5.,5,1	.,_55	

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2003 and 2002 [Quantity in number of units. Value in thousands of dollars]

Product description	Manufacturers' shipments 1/		Exp shipme		Import 3/ shipments 4/	
	Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
Skid steer loaders	60,616	1,120,639	712	37,218	2,311	65,057
Crawler loaders	(D)	(D)	94	4,401	1,178	135,187
Excavators, hydraulic operated, crawler mounted	15,616	1,286,196	2,503	276,169	12,446	799,802
Excavators, hydraulic operated, wheel (rubber)						
mounted	(D)	(D)	56	6,579	492	39,008
Cranes, lattice boom, wheel (rubber) mounted	(D)	(D)	253	44,949	34	15,410
Cranes, wheel (integral), hydraulic operated,						
telescopic boom, multiple control stations						
(rubber mounted), including pinned on type,						
telescopic and articulated	(D)	(D)	392	29,600	272	118,591
Cranes, wheel, hydraulic operated, telescopic						
boom, one control station (self-propelled, rubber						
mounted)	(D)	(D)	347	34,691	88	14,240
Cranes, pedestal or ship mounted	163	74,851	2,153	24,883	9,900	176,151
Cranes, other	(D)	(D)	408	82,559	995	138,342
Clamshell/grapple attachments	1,442	18,308	1,084	1,646	6,764	7,553
Dragline buckets (attachments)	955	74,286	-	-	12,111	9,667
Concrete mixers	(D)	(D)	2,366	24,663	70,165	42,452
Concrete pavers, finishers, and spreaders	(D)	(D)	856	31,555	329	1,398
Concrete pumps	(D)	(D)	2,450	19,733	1,419	23,439
Bituminous pavers, finishers, and spreaders	2,340	204,914	593	29,920	204	2,383
Asphalt plants and bituminous stabilization mixing						
equipment	(D)	(D)	384	20,037	38	2,123
Scraper bowls	(D)	(D)	138	180	254	15,882
Motor graders and light maintainers	(D)	(D)	2,342	216,847	761	87,546
Self-propelled vibratory compaction equipment	(D)	(D)	1,729	39,466	4,076	79,395
Self-propelled static compaction equipment	(D)	(D)	847	27,413	2,449	19,162
Off-highway rear dump haulers, trucks, and						
truck trailers, including ridged and articulated	1,927	702,964	1,682	544,592	2,728	346,099
Off-highway trucks, truck-type tractor chassis,			222			
trailers, and wagons	1,816	116,838	320	15,606	182	15,901
Winches for mounting (towing, logging, and oil	(5)	(D)	455 554	01.006	2 450 605	114016
field types)	(D)	(D)	457,554	81,326	3,456,695	114,916
Backhoes for mounting	14,217	77,866	10,774	40,307	5,658	5,896
Other construction machinery for mounting	(D)	(D)	13,758	36,100	56,228	73,779
Self-propelled continuous ditchers and trenchers	(D)	(D)	1 1 4 1	12.702	3	0.1
(integral units), ladder-type digging element	(D)	(D)	1,141	12,792	3	91
Self-propelled continuous ditchers and trenchers	(D)	(D)	265	15 217	115	2 100
integral units), wheel-type digging element	(D)	(D)	365	15,317	115	2,180

⁻ Represents zero. D Withheld to avoid disclosing data for individual companies.

^{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/}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: 2003

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 8701.90.5025	8701.90.5015 8701.90.5020 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 8701.30.0030 8701.30.0045 8701.30.0060 8701.30.0075	8701.30.1015 8701.30.1030 8701.30.1045 8701.30.1060 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 8429.51.1025 8429.51.1030 8429.51.1035 8429.51.1040 8429.51.1045 8429.51.1050 8429.51.1055	8429.51.1015 8429.51.1025 8429.51.1030 8429.51.1035 8429.51.1040 8429.51.1045 8429.51.1050 8429.51.1055
3331201460	Skid steer loaders	8429.51.1060	8429.51.1060
3331201488	Crawler loaders	8429.51.5010 8429.51.5020 8429.51.5030 8429.51.5040 8429.51.5050	8429.51.5010 8429.51.5020 8429.51.5030 8429.51.5040 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 8705.10.0010	8426.41.0010 8705.10.0010

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2003

Product code	Product description	Export code 1/	Import code 2/
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
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

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2003

Product code	Product description	Export code 1/	Import code 2/
3331201671, 673, 676, 682	Self-propelled static compaction equipment	8429.40.0040	8429.40.0040
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
nt Dart			

pt. Part.

1/Source: 2003 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 (2003).

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.