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SUMMARY OF FINDINGS

For 2004, value of shipments of the types of construction machinery included in this report, except scraper bowls increased by 23.9 percent from \$13,089.5 million in 2003 to \$16,217.6 million in 2004.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments totaled \$2,976.5 million for 2004, an increase of 14.1 percent from the 2003 total of \$2,607.7 million

Value of shipments of mixers, pavers, and related equipment increased from \$1,147.0 million in 2003 to \$1,639.8 million in 2004, an increase of 43.0

percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons increased by 31.0 percent to \$966.8 million in 2004, from \$737.9 million in 2003.

Shipments of tractor shovel loaders increased from \$3,949.7 million in 2003 to \$4,785.7 million in 2004, an increase of 21.2 percent. Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders increased by 40.8 percent to \$1,989.2 million in 2004 from \$1,415.6 in 2003. Motor graders and light maintainers increased by 27.2 percent to \$646.8 million in 2004 from \$508.5 million in 2003. Rollers and compactors increased from \$479.6 million in 2003 to \$612.3 million in 2004.

Shipments of rough terrain forklifts (integral units only) decreased by 18.1 percent to \$312.3 million in 2004, from \$368.9 million in 2003. Ditchers and trenchers, self-propelled (integral units only) increased from \$141.4 million in 2003 to \$169.4 million for 2004. Construction machinery for mounting on trucks, tractors, and other prime movers, except winches, hoists, and other materials-handling equipment, increased from \$279.3 million in 2003 to \$371.9 million in 2004. Winches and other materials-handling equipment for mounting increased 13.6 percent, from \$73.7 million in 2003 to \$83.7 million in 2004. Aerial work platforms increased 20.3 percent from \$1,383.2 million in 2003 to \$1,663.3 million in 2004.

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.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

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

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Economics and Statistics Administration
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Table 1. Value of Shipments for Selected Construction Machinery: 2000 to 2004
 [Value in millions of dollars]

Product code	Product description	2004	2003	2002	2001	2000
3331201111, 114, 117, 129, 132, 134, 145, 152, 154, 156, 158, 167, 171, 174, 177, 182, 184, 186, 188, 194, 199, 1A4, 1A5, 1A7, 1AA	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.....	2,976.5	2,607.7	2,440.3	2,724.4	3,255.3
3331201222, 231, 233, 239, 241, 244, 247, 251, 256, 266, 271, 275, 282, 284, 286, 289, 291, 295	Mixers, pavers, and related equipment.....	1,639.8	1,147.0	1,211.2	1,431.2	1,894.5
3331201371, 376	Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, wagons.....	966.8	737.9	819.8	947.3	1,062.9
3331201460, 471, 475, 479, 483, 488, 495	Tractor shovel loaders.....	4,785.7	3,949.7	3,413.1	3,751.7	4,148.7
3331201577, 599	Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	1,989.2	1,412.6	(D)	1,322.9	1,427.5
3331201661, 667	Motor graders and light maintainers.....	646.8	508.5	(D)	(D)	557.5
3331201671, 673, 676, 682, 687, 689, 692, 696, 699, 6A2, 6A6	Rollers and compactors.....	612.3	479.6	422.8	474.7	676.5
33312016D1, 6D3, 6D5	Rough-terrain forklifts.....	312.3	368.9	435.0	623.2	600.0
33312016E5	Scraper bowls.....	(D)	(D)	(D)	(D)	(D)
33312016J3, 6J5, 6J7, 6JJ	Ditchers and trenchers, self-propelled (integral units).....	169.4	r/ 141.4	146.9	305.1	566.4
3331201782, 799	Construction machinery (except winches and other materials-handling equipment) for mounting on trucks, tractors, etc.	371.9	279.3	238.2	267.7	312.1
3339237231, 239	Winches and other materials-handling equipment, for mounting.....	83.7	73.7	(D)	113.5	114.3
3339237111, 113, 115, 117	Aerial work platforms.....	1,663.5	1,383.2	1,586.2	2,257.3	3,055.3

D Withheld to avoid disclosing data for individual companies. r/Revised 5 percent or more from previously published data.

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.....	(NA)	208,871	2,976,477	182,065	2,607,690
	Excavators, hydraulic-operated:					
	Crawler mounted, rated size in metric tons:					
3331201111	Not more than 24 metric tons.....	6	10,593	651,354	11,410	558,132
	More than 24 but not more than 40 metric tons.....	4	4,161	624,611	5,230	699,182
3331201114	More than 40 metric tons.....	4	1,662	409,061	1,265	308,105
3331201117	Wheel (rubber) mounted, all sizes.....	1	(D)	(D)	(D)	(D)
3331201129	Cranes, lattice boom:					
	Crawler mounted, maximum working load:					
3331201132	Not more than 110 metric tons.....	2	(D)	(D)	r/ 55	r/ 28,989
3331201134	More than 110 metric tons.....	3	b/ 134	b/ 132,368	67	76,833
3331201145	Wheel (rubber) mounted.....	2	(D)	(D)	7	6,383
	Cranes, hydraulic-operated, telescopic boom:					
	Wheel cranes (integral), multiple control stations (rubber mounted), maximum working load of:					
3331201152	Not more than 18 metric tons.....	2	(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.....	4	3,785	a/ 70,590	2,624	49,799
3331201158	More than 50 metric tons.....	3	c/ 382	c/ 156,480	b/ 208	b/ 81,592
3331201167	Pinned on type, telescopic and articulated.....	6	c/ 2,478	b/ 128,535	b/ 1,953	b/ 97,668
	Wheel cranes, one control station (self-propelled, rubber mounted), maximum working load of:					
3331201171	Not more than 16 metric tons.....	4	479	a/ 31,246	r/ 415	a/ r/ 24,921
3331201174	More than 16 metric tons but not more than 22.7 metric tons.....	-	-	-	(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.....	2	(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.....	3	(D)	(D)	(D)	(D)
3331201188	More than 110 metric tons.....	1	(D)	(D)	(D)	(D)
	Other cranes and excavators:					
3331201194	Pedestal or shipmounted marine cranes.....	4	c/ 67	c/ 28,995	c/ 143	c/ 67,479
3331201199	All other cranes, excavators, and draglines, n.e.c.	4	1,110	202,607	840	132,135
	Attachments for power cranes, draglines, and excavators, sold separately:					
33312011A4	Hoe.....	5	a/ 27,061	b/ 50,319	a/ r/ 22,979	b/ r/ 36,318
33312011A5	Dragline buckets, all sizes.....	4	(X)	a/ 27,197	c/ 725	r/ 64,127
33312011A7	Clamshell/grapple.....	10	c/ 2,034	a/ 29,751	c/ 1,675	23,151
33312011AA	All other attachments, n.e.c.	18	b/ 153,466	b/ 177,345	130,992	a/ 120,361
	Mixers, pavers, and related equipment.....	(NA)	85,072	1,639,784	68,936	1,146,982
	For concrete, plaster, or mortar applications:					
3331201222	Concrete mixers (except plaster and mortar), portable, including truck or other mixer or agitator, all sizes.....	9	(D)	(D)	(D)	(D)
3331201231	Plaster and mortar mixers, all sizes.....	3	(D)	(D)	(D)	(D)
3331201233	Slipform concrete paving machines, including multipurpose, automated curb and gutter and concrete slipform pavers up to and including 34 feet wide.....	10	604	76,175	576	72,593
3331201239	Concrete trowels.....	6	18,697	40,709	13,861	25,557
3331201241	Concrete vibrators (electric motor, gasoline engine, structural high-cycle, pneumatic, etc.).....	9	30,045	18,494	27,486	16,325
3331201244	Concrete screeds (hand-propelled or winch type).....	8	5,873	30,426	4,166	27,442

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004			2003		
			Quantity	Value	Quantity	Value		
3331201247	Concrete batching plants, bin and batch, for concrete aggregate only and bulk cement.....	10	a/ 368	76,199	a/ r/ 293	a/ r/ 60,246		
3331201251	Concrete pumps, mobile.....	2	(D)	(D)	(D)	(D)		
3331201256	Other concrete, plaster, and mortar mixing and paving machinery.....	4	c/ 561	a/ 8,422	b/ 451	a/ 5,192		
For asphalt or bituminous applications:								
3331201266	Bituminous distributors.....	7	723	21,858	a/ 828	a/ 21,567		
3331201271	Bituminous pavers, self-propelled: 21,999 lbs. gross weight and under (basic unit).....	5	1,315	66,085	a/ 1,040	a/ 47,398		
3331201275	22,000 lbs. gross weight and over (basic unit).....	6	786	158,128	385	79,848		
Asphalt plants (including cold mix central plants):								
3331201282	Less than 7,500 lbs. (239 tons per hour.....	2	(D)	(D)	(D)	(D)		
3331201284	7,500 lbs. and over (240 tph and over.....	4	b/ 61	b/ 134,715	b/ 59	b/ r/ 126,644		
3331201286	Bituminous stabilization mixing equipment, including central mixing plants and mix-in-place.....	5	158	43,770	146	43,432		
3331201289	Bituminous cold planers/milling machines (self-propelled).....	3	89	35,128	r/ 71	r/ 27,937		
3331201291	Other asphalt and bituminous mixing and paving machinery.....	7	a/ 491	a/ 34,624	b/ 305	a/ 26,961		
3331201295	Other products, for use in either concrete or bituminous applications.....	12	4,260	51,796	3,754	34,946		
Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons.....								
3331201371	Off-highway rear dump haulers.....	(NA)	4,910	966,843	3,876	737,913		
3331201376	Other.....	5	b/ 1,672	a/ 758,456	a/ 1,579	a/ 599,081		
		7	3,238	208,387	2,297	r/ 138,832		
Tractor shovel loaders.....								
3331201460	Skid steer loaders, 4-wheel drive skid steer, all sizes.....	(NA)	126,681	4,785,672	102,524	3,949,691		
	Wheel loaders, rear engine mount, integral design, 4-wheel drive, nonskid steer:	6	75,136	1,535,381	65,494	1,392,024		
3331201471	Under 79 neph.....	3	188	5,231	150	4,034		
3331201475	80 to 149 neph.....	10	7,556	771,718	5,617	512,441		
3331201479	150 to 249 neph.....	6	4,209	585,216	3,940	523,946		
3331201483	250 neph and over.....	5	(D)	(D)	(D)	(D)		
3331201488	Crawler loaders.....	3	(D)	(D)	(D)	(D)		
3331201495	Integral design tractor shovel loader/back-hoes (wheel tractor chassis shipped as part of front engine mount contractor tractor).....	6	33,083	1,348,388	25,515	929,368		
Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....								
3331201577	Wheeled log skidders, self-propelled.....	(NA)	11,746	1,989,174	8,288	1,412,632		
3331201599	Crawler tractors (except crawler loaders) and tracklaying, and other contractors' off-highway-type wheel tractors and dozers.....	6	2,273	340,500	1,756	253,922		
		9	9,473	1,648,674	6,532	1,158,710		
Motor graders and light maintainers.....								
3331201661	Under 144 nehp.....	(NA)	4,294	646,782	3,518	508,545		
3331201667	145 nehp and over.....	4	(D)	(D)	(D)	(D)		
		2	(D)	(D)	(D)	(D)		
Rollers and compactors.....								
	Static smooth steel wheel rollers, tandem:	(NA)	81,227	612,111	67,435	479,557		
3331201671	Under 3 metric tons.....	3	228	2,195	229	2,387		
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.....	5	415	21,758	360	17,507		
Vibratory single drum with 1 or 2 drive wheels:								
3331201687	Under 5 metric tons.....	9	1,434	44,450	864	21,646		
3331201689	At least 5 but less than 8 metric tons.....	4	1,512	92,257	656	39,359		
3331201692	8 metric tons and over.....	5	2,168	174,596	1,278	95,160		

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
	Vibratory double drum, two drums vibrating:					
3331201696	Under 5 metric tons.....	5	(D)	(D)	2,227	r/ 29,028
3331201699	At least 5 but less than 8 metric tons.....	2	(D)	(D)	(D)	(D)
33312016A2	8 metric tons and over.....	3	842	75,657	599	51,768
33312016A6	All other compaction equipment (except hand-held) including embankment and landfill compactors, towed roller and double drum compactors with one drum vibrating.....	7	(D)	(D)	60,924	210,125
	Rough-terrain forklifts (integral units only).....	(NA)	6,611	312,260	7,727	368,882
33312016D1	Vertical mast, 2-wheel drive.....	8	a/ 2,095	a/ 73,474	a/ 1,676	a/ 56,086
33312016D3	Vertical mast, 4-wheel drive.....	9	b/ 939	b/ 30,371	b/ 629	b/ 20,380
33312016D5	Telescopic handlers, 2- and 4-wheel drive.....	6	b/ 3,577	a/ 208,415	5,422	292,416
33312016E5	Scraper bowls.....	6	(D)	(D)	(D)	(D)
	Ditchers and trenchers, self-propelled (integral units only).....	(NA)	7,778	169,372	r/ 7,170	r/ 141,407
	Ladder-type digging element:					
33312016J3	Under 2,000 lbs. gross weight.....	5	(D)	(D)	(D)	(D)
33312016J5	2,000 to 4,999 lbs. gross weight.....	4	a/ 2,689	a/ 51,990	2,369	48,868
33312016J7	5,000 lbs. gross weight and over.....	5	b/ 1,155	a/ 83,539	r/ 913	r/ 58,221
33312016JJ	Wheel-type digging element.....	3	(D)	(D)	(D)	(D)
	Construction machinery for mounting on trucks, tractors, and other prime movers (except winches, hoists, and other materials-handling equipment).....	(NA)	118,225	371,947	78,048	279,293
3331201782	Backhoes, either shipped for mounting separately or already mounted on an integral unit.....	10	21,827	130,044	r/ 16,027	r/ 93,238
3331201799	All other, including sidebooms, pipehandlers, dozers, front-end loaders, shovel loaders, logging arches, rippers, rooters, continuous ditching and trenching attachments, fork lift attachments, cranes, cable power control units, hydraulic power control units, etc.	22	96,398	a/ 241,903	62,021	a/ 186,055
	Winches and materials-handling equipment for mounting.....	(NA)	16,696	83,665	14,413	73,660
3339237231	Winches (towing, logging, and oil field types).....	8	a/ 15,262	72,451	(D)	(D)
3339237239	Other equipment.....	3	1,434	11,214	(D)	(D)
	Aerial work platforms.....	(NA)	72,843	1,663,520	59,998	1,383,233
3339237111	Boom type, self-propelled.....	6	12,537	722,010	10,958	609,372
3339237113	Scissors type, self-propelled.....	5	(D)	(D)	(D)	(D)
3339237115	Not self-propelled, boom and scissors type.....	4	(D)	(D)	(D)	(D)
3339237117	Truck mounted.....	10	a/ 16,867	a/ 622,751	14,312	524,483

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. neh Net engine horsepower r/Revised by 5 percent or more from previously published data. 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 of this item is estimated.

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments 1/		Export shipments 3/		Import shipments 4/	
		Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
2004							
3331201577	Wheeled log skidders, self-propelled.....	2,273	340,500	991	82,083	431	47,214
3331201599	Crawler tractors (except crawler loaders).....	9,473	1,648,674	8,543	441,586	8,705	532,989
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4- wheel drive, nonskid steer.....	(D)	(D)	20,593	755,381	12,517	682,666
3331201460	Skid steer loaders.....	75,136	1,535,381	1,209	62,072	5,742	186,382
3331201488	Crawler loaders.....	(D)	(D)	602	24,230	2,043	260,346
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted.....	16,416	1,685,026	2,759	302,220	29,106	1,922,905
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	(D)	(D)	63	5,681	1,447	143,816
3331201145	Cranes, lattice boom, wheel (rubber) mounted....	(D)	(D)	406	58,770	73	19,883
3331201152, 154, 156, 158, 167	Cranes, hydraulic operated, telescopic boom, wheel (integral), multiple control stations rubber mounted, including pinned-on type, telescopic and articulated.....	(D)	(D)	502	66,515	303	108,561
3331201171, 174, 177	Cranes, hydraulic operated, telescopic boom, wheel, one control station self-propelled, rubber mounted.....	(D)	(D)	336	26,287	38	5,268
3331201194	Cranes, pedestal or shipmounted.....	67	28,995	1,339	18,325	260	21,466
3331201199, 132, 134, 182, 184, 186, 188	Cranes, all other not elsewhere classified.....	(D)	(D)	792	96,121	639	98,211
33312011A7	Clamshell/grapple (attachments).....	2,034	29,751	793	1,570	21,254	14,585
33312011A5	Dragline buckets (attachments).....	(X)	27,197	-	-	7,441	9,276
3331201222, 247, 231	Concrete mixers.....	(D)	(D)	3,763	39,236	119,057	53,562
3331201233, 239, 244	Slipform concrete paving machines, plaster and mortar mixers, and concrete screeds.....	25,174	147,310	2,122	59,733	6,995	5,995
3331201251	Concrete pumps, mobile.....	(D)	(D)	2,504	44,961	67,932	60,151
3331201271, 275, 266, 289	Bituminous pavers, self-propelled.....	2,913	281,199	657	30,935	207	4,214
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment.....	(D)	(D)	473	28,738	40	446
33312016E5	Scraper bowls.....	(D)	(D)	196	382	142	4,818
3331201661, 667	Motor graders and light maintainers.....	(D)	(D)	2,673	276,126	1,586	164,197
3331201687, 689, 692, 696, 699, 6A2, 6A6	Vibratory rollers and compactors.....	(D)	(D)	2,918	69,353	13,242	130,058
3331201671, 673, 676, 682	Static rollers and compactors.....	(D)	(D)	974	32,564	817	25,586
3331201371	Off-highway rear dump haulers.....	1,672	758,456	5,714	996,370	3,597	770,769
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	3,238	208,387	787	75,658	524	42,348
3339237231	Winches (towing, logging, and oil-field types)....	15,262	72,451	587,856	106,235	4,960,914	131,166

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments 1/		Export shipments 3/		Import shipments 4/	
		Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
3331201782	Backhoes (shipped for mounting or already mounted).....	21,827	130,044	8,440	38,974	10,465	13,056
3331201799	Other construction machinery for mounting.....	97,832	253,117	34,478	63,852	98,349	114,704
3339237239							
33312016J3, 6J5, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	(D)	(D)	1,271	14,373	26	116
33312016JJ	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	(D)	(D)	489	16,747	19	2,642
2003							
3331201577	Wheeled log skidders, self-propelled.....	1,756	253,922	857	56,405	336	35,087
3331201599	Crawler tractors (except crawler loaders).....	6,532	1,158,710	3,432	301,236	6,480	339,817
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4- wheel drive, nonskid steer.....	(D)	(D)	17,343	629,690	8,179	396,496
3331201460	Skid steer loaders.....	65,494	1,392,024	1,005	55,947	3,975	123,772
3331201488	Crawler loaders.....	(D)	(D)	319	12,106	1,283	152,986
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted.....	17,905	1,565,419	2,595	272,102	17,583	1,080,444
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	(D)	(D)	25	3,955	637	74,753
3331201145	Cranes, lattice boom, wheel (rubber) mounted....	7	6,383	326	44,767	88	13,597
3331201152, 154, 156, 158, 167	Cranes, hydraulic operated, telescopic boom, wheel (integral), multiple control stations rubber mounted, including pinned-on type, telescopic and articulated.....	(D)	(D)	429	49,560	252	85,982
3331201171, 174, 177	Cranes, hydraulic operated, telescopic boom, wheel, one control station self-propelled, rubber mounted.....	(D)	(D)	341	31,920	46	8,814
3331201194	Cranes, pedestal or shipmounted.....	143	67,479	1,639	21,970	3,696	39,615
3331201199, 132, 134, 182, 184, 186, 188	Cranes, all other not elsewhere classified.....	(D)	(D)	494	90,732	593	82,174
33312011A7	Clamshell/grapple (attachments).....	1,675	23,151	786	1,595	10,483	7,970
33312011A5	Dragline buckets (attachments).....	725	64,127	-	-	8,011	6,868
3331201222, 247, 231	Concrete mixers.....	(D)	(D)	2,334	16,807	99,589	53,780
3331201233, 239, 244	Slipform concrete paving machines, plaster and mortar mixers, and concrete screeds.....	18,603	125,592	1,211	38,087	3,291	4,696
3331201251	Concrete pumps, mobile.....	(D)	(D)	1,898	29,379	785	32,215
3331201271, 275, 266, 289	Bituminous pavers, self-propelled.....	2,324	176,750	520	26,528	803	5,866
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment.....	(D)	(D)	237	13,599	88	2,812
33312016E5	Scraper bowls.....	(D)	(D)	42	268	324	17,257
3331201661, 667	Motor graders and light maintainers.....	(D)	(D)	2,425	236,360	890	87,006
3331201687, 689, 692, 696, 699, 6A2, 6A6	Vibratory rollers and compactors.....	(D)	(D)	2,323	45,239	9,721	103,975
3331201671, 673, 676, 682	Static rollers and compactors.....	(D)	(D)	727	25223	687	16,764
3331201371	Off-highway rear dump haulers.....	1,579	599,081	2,013	651,031	2,423	464,339
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	2,297	138,832	498	37,929	360	11,083
3339237231	Winches (towing, logging, and oil-field types)....	(D)	(D)	457,096	91,207	3,104,415	136,470

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2004 and 2003
 [Quantity in number of units. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments 1/		Export shipments 3/		Import shipments 4/	
		Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
3331201782	Backhoes (shipped for mounting or already mounted).....	16,027	93,238	9,644	28,635	23,762	12,694
3331201799	Other construction machinery for mounting.....	(D)	(D)	21,912	65,699	64,117	70,159
3339237239							
33312016J3, 6J5, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	(D)	(D)	1,723	14,927	14	465
33312016JJ	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	(D)	(D)	614	11,144	34	1,367

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. 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/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 the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2004

Product code 1/	Product description 2/	Export code 3/	Import code 4/
3331201577	Wheeled log skidders, self-propelled.....	8701.90.1001	8701.90.1001
3331201599	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	8426.41.0010
3331201152, 154, 156, 158, 167	Cranes, hydraulic operated, telescopic boom, wheel (integral), multiple control stations (rubber mounted), including pinned-on type, telescopic and articulated.....	8705.10.0050	8705.10.0050
3331201171, 174, 177	Cranes, wheel, hydraulic operated, telescopic boom, wheel, one control station self-propelled, rubber mounted.....	8426.41.0090	8426.41.0090
3331201194	Cranes, pedestal or shipmounted.....	8426.30.0000	8426.30.0000
3331201132, 134, 182, 184, 186, 188, 199	Cranes, all other not elsewhere classified.....	8426.49.0010 8426.49.0090 8429.52.1020	8426.49.0010 8426.49.0090 8429.52.1020
33312011A7	Clamshell/grapple (attachments).....	8431.41.0040	8431.41.0040
33312011A5	Dragline buckets (attachments).....	8431.41.0060	8431.41.0060
3331201222, 231, 247	Concrete mixers.....	8474.31.0000	8474.31.0000

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2004

Product code 1/	Product description 2/	Export code 3/	Import code 4/
3331201233, 239, 244	Slipform concrete paving machines, plaster and mortar mixers, and concrete screeds.....	8479.10.0040	8479.10.0040
3331201251	Concrete pumps, mobile.....	8413.40.0000	8413.40.0000
3331201266, 271, 275, 289	Bituminous pavers, self-propelled.....	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	Vibratory rollers and compactors.....	8429.40.0020	8429.40.0020
3331201671, 673, 676, 682	Static rollers and compactors.....	8429.40.0040	8429.40.0040
3331201371	Off-highway rear dump haulers.....	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, coal haulers, truck-type tractor chassis, trailers, and wagons.....	8704.10.5060 8704.10.1000	8704.10.5060 8704.10.1000
3339237231	Winches (towing, logging, and oil-field types).....	8425.31.0000 8425.39.0000	8425.31.0000 8425.39.0000
3331201782	Backhoes (shipped for mounting or already mounted).....	8431.49.9005	8431.49.9005
3331201799, 3339237239	Other construction machinery for mounting.....	8428.90.0030 8431.42.0000 8431.49.9010 8431.49.9015	8428.90.0030 8431.42.0000 8431.49.9010 8431.49.9015
33312016J3, 6J5, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	8429.59.5020	8429.59.5020
33312016JJ	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	8429.59.5040	8429.59.5040

1/North American Industry Classification System code; see Table 2.

2/Used in Table 3.

3/Source: 2004 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

4/Source: Harmonized Tariff Schedule of the United States, Annotated (2004).

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.