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SUMMARY OF FINDINGS

For 2005, value of shipments of the types of construction machinery included in this report increased by 34.4 percent from \$16,458.8 million in 2004 to \$22,119.8 million in 2005.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments totaled \$3,652.2 million for 2005, an increase of 28.0 percent from the 2004 total of \$2,853.5 million

Value of shipments of mixers, pavers, and related equipment increased from \$1,680.7 million in 2004

to \$1,857.0 million in 2005, an increase of 10.5 percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, and wagons increased by 80.0 percent to \$1,730.1 million in 2005, from \$960.9 million in 2004.

Shipments of tractor shovel loaders increased from \$4,760.9 million in 2004 to \$6,434.3 million in 2005, an increase of 35.1 percent. Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders increased by 34.2 percent to \$2,657.9 million in 2005, from \$1,980.0 in 2004. Motor graders and light maintainers, including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts) increased by 33.2 percent to \$2,756.2 million in 2005 from \$2,069.3 in 2004.

Construction machinery for mounting on trucks, tractors, and other prime movers, except winches, and materials-handling equipment, increased from \$442.5 million in 2004 to \$522.4 million in 2005. Winches for mounting on wheel and crawler tractors and other prime movers increased 40.0 percent, from \$83.7 million in 2004 to \$117.2 million in 2005.

Personnel aerial work platforms increased 47.1 percent from \$1,626.0 million in 2004 to \$2,392.5 million in 2005.

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
U.S. CENSUS BUREAU

Table 1. Value of Shipments for Selected Construction Machinery: 2001 to 2005
 [Value in millions of dollars]

Product description	2005	2004	2003	2002	2001
Power cranes, draglines, and excavators, including surface mining equipment, and attachments.....	3,652.2	2,853.5	2,607.7	2,440.3	2,724.4
Mixers, pavers, and related equipment.....	1,857.0	1,680.7	1,147.0	1,211.2	1,431.2
Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, wagons.....	1,730.1	960.9	737.9	819.8	947.3
Tractor shovel loaders.....	6,434.3	4,760.9	3,949.7	3,413.1	3,751.7
Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	2,657.9	1,980.8	1,412.6	(D)	1,322.9
Motor graders and light maintainers including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts).....	2,756.2	2,069.8	1,498.4	1,728.4	2,170.5
Construction machinery for mounting on tractors and other prime movers (except winches and materials-handling equipment).....	522.4	442.5	279.3	238.2	267.7
Winches for mounting on wheel and crawler tractors and other prime movers.....	117.2	83.7	73.7	(D)	113.5
Personnel aerial work platforms (excluding parts).....	2,392.5	1,626.0	1,383.2	1,586.2	2,257.3

D Withheld to avoid disclosing data for individual companies.

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2005 and 2004
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2005		2004	
			Quantity	Value	Quantity	Value
	Total construction machinery.....	(NA)	863,983	22,119,783	721,255	16,458,798
33312011	Total power cranes, draglines, and excavators, including surface mining equipment; and attachments.....	50	196,974	3,652,238	165,868	2,853,452
	Excavators, hydraulic operated:					
	Crawler mounted, rated size in metric tons:					
3331201111	Not more than 24 metric tons.....	6	15,689	851,002	10,593	651,354
	More than 24 but not more than 40 metric tons.....	4	5,304	822,632	4,161	624,611
3331201114	More than 40 metric tons.....	4	1,818	424,010	1,662	409,061
3331201129	Wheel (rubber) mounted, all sizes.....	1	(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	a/ 150	a/ 143,109	b/ 134	b/ 132,368
3331201145	Wheel (rubber) mounted.....	1	(D)	(D)	(D)	(D)
	Cranes, hydraulic operated, telescopic boom:					
	Wheel cranes (integral), multiple control stations (rubber mounted), maximum working load of:					
	Not more than 27 metric tons (29.76 short tons) 1/.....	3	(D)	(D)	(D)	(D)
3331201153	More than 27 but not more than 50 metric tons.....	4	754	a/ 77,495	r/ 706	a/r/ 63,694
3331201158	More than 50 metric tons.....	4	a/ 415	b/ 228,269	a/r/ 221	b/r/ 96,376
3331201167	Pinned on type, telescopic and articulated.....	8	a/ 6,448	b/ 215,750	b/r/ 5,211	b/r/ 162,272
	Wheel cranes, one control station (self-propelled, rubber mounted), maximum working load of:					
3331201171	Not more than 16 metric tons.....	3	592	a/ 43,363	479	a/ 31,246
3331201175	More than 16 metric tons (17.64 short tons) 2/.....	3	777	231,592	(D)	(D)
3331201185	All-terrain cranes 3/.....	3	197	59,085	(D)	(D)
	Other cranes and excavators:					
3331201194	Pedestal or shipmounted marine cranes.....	4	b/ 96	c/ 22,710	b/r/ 109	c/r/ 31,306
3331201199	All other cranes, excavators, and draglines, n.e.c.	5	1,232	265,411	r/ 1,036	195,984
	Attachments for power cranes, draglines, and excavators, sold separately:					
33312011A4	Hoe.....	5	a/ 32,447	b/ 63,087	a/ 26,695	b/ 48,601
33312011A5	Dragline buckets, all sizes.....	4	(X)	c/ 42,095	(X)	a/ 27,197
33312011A7	Clamshell/grapple.....	9	c/ 1,373	c/ 21,954	c/ 2,024	a/ 29,695
33312011AA	All other attachments, n.e.c.	18	129,829	a/ 140,912	111,916	a/r/ 116,374
33312012	Total mixers, pavers, and related equipment.....	64	98,373	1,856,987	85,216	1,680,697
	For concrete, plaster, or mortar applications:					
3331201222	Concrete mixers (except plaster and mortar), portable, including truck or other mixer or agitator, all sizes.....	10	(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.....	11	667	81,761	608	r/ 76,444
3331201239	Concrete trowels.....	6	23,287	47,128	18,697	40,709
3331201241	Concrete vibrators (electric motor, gasoline engine, structural high-cycle, pneumatic, etc.).....	9	33,914	21,555	30,045	18,494
3331201244	Concrete screeds (hand-propelled or winch type).....	8	6,341	39,254	5,868	30,369
3331201247	Concrete batching plants, bin and batch, for concrete aggregate only and bulk cement.....	10	a/ 438	a/ 90,313	a/ 368	76,199
3331201251	Concrete pumps, mobile.....	2	(D)	(D)	(D)	(D)
3331201256	Other concrete, plaster, and mortar mixing and paving machinery.....	3	873	10,694	r/ 683	r/ 9,470

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2005 and 2004
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2005		2004	
			Quantity	Value	Quantity	Value
For asphalt or bituminous applications:						
3331201266	Bituminous distributors.....	7	796	24,892	723	21,858
Bituminous pavers, self-propelled:						
3331201271	21,999 lb gross weight and under (basic unit).....	6	1,515	89,238	1,315	66,085
3331201275	22,000 lb gross weight and over (basic unit).....	5	825	184,422	786	158,128
Asphalt plants, including cold mix central plants:						
3331201282	Less than 7,500 lb (239 tons per hour).....	2	(D)	(D)	(D)	(D)
3331201284	7,500 lb and over (240 tph and over).....	4	a/ 57	a/ 113,844	b/ 61	b/ 134,715
3331201286	Bituminous stabilization mixing equipment, including central mixing plants and mix-in-place.....	3	184	51,491	158	43,770
3331201289	Bituminous cold planers/milling machines (self-propelled).....	3	87	39,341	89	35,128
3331201291	Other asphalt and bituminous mixing and paving machinery.....	7	768	57,324	r/ 571	r/ 47,374
3331201295	Other products, for use in either concrete or bituminous applications.....	15	a/ 4,555	a/ 74,868	a/ r/ 3,992	r/ 58,987
33312013	Total off-highway trucks, truck-type tractor chassis, trailers, coal haulers, and wagons.....	12	a/ 6,599	a/ 1,730,071	4,726	960,930
3331201371	Off-highway rear dump haulers.....	6	a/ 2,754	a/ 1,464,565	b/ 1,672	a/ 758,456
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	6	3,845	265,506	r/ 3,054	202,474
33312014	Total tractor shovel loaders.....	23	149,290	6,434,280	126,111	4,760,917
3331201460	Skid steer loaders, 4-wheel drive skid steer, all sizes.....	8	94,557	2,136,190	r/ 75,136	r/ 1,535,381
Wheel loaders, rear engine mount, integral design, 4-wheel drive, nonskid steer:						
3331201471	Under 79 neph.....	3	290	8,681	(D)	(D)
3331201475	80 to 149 neph.....	9	4,517	455,914	7,556	771,718
3331201479	150 to 249 neph.....	18	6,028	848,353	4,209	585,216
3331201483	250 nehp and over.....	5	2,610	1,018,462	r/ 823	r/ 360,010
3331201488	Crawler loaders.....	-	-	-	(D)	(D)
3331201495	Integral design tractor shovel loader/back-hoes (wheel tractor chassis shipped as part of front engine mount contractor tractor).....	6	a/ 41,288	1,966,680	32,606	1,341,992
33312015	Total crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	12	13,397	2,657,923	11,704	1,980,825
3331201577	Wheeled log skidders, self-propelled.....	6	(D)	(D)	2,230	331,976
3331201599	Crawler tractors (except crawler loaders) and tracklaying, and other contractors' off-highway-type wheel tractors and dozers.....	9	(D)	(D)	9,474	1,648,849
33312016	Total motor graders and light maintainers, including rollers and compactors, rough terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts).....	39	112,160	2,756,236	101,916	2,069,824
Motors, graders, and light maintainers:						
3331201661	Under 144 nehp.....	4	(D)	(D)	r/ 1,101	r/ 121,635
3331201667	145 nehp and over.....	2	(D)	(D)	(D)	(D)
Rollers and compactors:						
Static smooth steel wheel rollers, tandem:						
3331201671	Under 3 metric tons.....	3	223	2,095	228	2,195
3331201673	At least 3 but less than 5.5 metric tons.....	1	(D)	(D)	(D)	(D)
3331201676	5.5 metric tons and over.....	2	(D)	(D)	(D)	(D)
3331201682	Pneumatic tire rollers.....	5	514	28,854	415	21,758
Vibratory single drum with 1 or 2 drive wheels:						
3331201687	Under 5 metric tons.....	8	1,880	67,775	1,434	44,450
3331201689	At least 5 but less than 8 metric tons.....	3	1,417	96,303	1,512	92,257
3331201692	8 metric tons and over.....	4	2,463	215,424	2,168	174,596

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2005 and 2004
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2005		2004	
			Quantity	Value	Quantity	Value
	Vibratory double drum, two drums vibrating:					
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	905	96,143	842	75,657
33312016A6	All other compaction equipment (except hand-held); including embankment and landfill compactors, towed roller and double drum compactors with one drum vibrating.....	9	77,759	317,768	(D)	(D)
	Rough terrain forklifts (integral units only):					
33312016D1	Vertical mast, 2-wheel drive.....	8	a/ 3,101	a/ 113,761	a/ 2,095	a/ 73,474
33312016D3	Vertical mast, 4-wheel drive.....	9	b/ 1,274	b/ 41,088	b/ 939	b/ 30,371
33312016D5	Telescopic handlers, 2- and 4-wheel drive.....	6	5,541	366,497	b/ 3,577	a/ 208,415
33312016E5	Scraper bowls.....	5	a/ 2,933	495,568	(D)	(D)
	Ditchers and trenchers, self-propelled (integral units only):					
	Ladder-type digging element:					
33312016J4	No more than 5,000 lb gross weight 4/.....	5	a/ 5,650	a/ 61,163	(D)	(D)
33312016J7	More than 5,000 lb gross weight.....	5	a/ 1,871	a/ 116,993	b/ 1,155	a/ 83,539
33312016J9	Wheel-type digging element 5/.....	3	b/ 56	a/ 18,196	b/r/ 38	a/r/ 11,661
33312017	Total construction machinery for mounting on tractors, and other prime movers (except winches, hoists, and other materials-handling equipment).....	31	141,933	522,445	137,216	442,489
3331201782	Backhoes, either shipped for mounting separately or already mounted on an integral unit.....	10	23,401	121,401	r/ 24,528	r/ 146,467
3331201799	All other construction machinery for mounting, 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.	26	118,532	401,044	r/ 112,688	a/r/ 296,022
33392372	Total winches for mounting on wheel and crawler tractors and other prime movers.....	10	23,757	117,150	16,696	83,665
	Machinery for mounting:					
3339237231	Winches (towing, logging, and oil field types).....	8	a/ 22,293	a/ 103,026	15,262	72,451
3339237239	Other equipment.....	3	1,464	14,124	1,434	11,214
33392371	Total personnel aerial work platforms (excluding parts).....	18	93,609	2,392,453	71,802	1,625,999
	Aerial work platforms:					
3339237111	Boom type, self-propelled.....	5	(D)	(D)	(D)	(D)
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.....	11	a/ 15,673	718,261	16,316	608,956

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

- 1/Product code 3331201153 is a combination of product codes 3331201152 and 3331201154 from 2004.
- 2/Product code 3331201175 is a combination of product codes 3331201174 and 3331201177 from 2004.
- 3/Product code 3331201185 is a combination of product codes 3331201182, 3331201184, and 3331201186 from 2004.
- 4/Product code 33312016J4 is a combination of product codes 33312016J3 and 33312016J5 from 2004.
- 5/Product code 33312016JJ from 2004 has been replaced with 33312016J9.

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: 2005 and 2004
 [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/
2005							
3331201577	Wheeled log skidders, self-propelled.....	(D)	(D)	994	79,040	362	53,456
3331201599	Crawler tractors (except crawler loaders).....	(D)	(D)	8,543	441,586	8,705	532,989
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.....	13,445	2,331,410	28,487	1,000,525	15,529	889,577
3331201460	Skid steer loaders.....	94,557	2,136,190	2,048	70,474	6,127	214,523
3331201488	Crawler loaders.....	-	-	1,257	62,136	1,964	267,278
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted.....	22,811	2,097,644	3,755	376,344	37,827	2,391,900
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	(D)	(D)	38	4,867	1,122	122,123
3331201145	Cranes, lattice boom, wheel (rubber) mounted.....	(D)	(D)	575	95,805	240	40,839
3331201153, 156, 158, 167	Cranes, hydraulic operated, telescopic boom, wheel (integral), multiple control stations rubber mounted, including pinned-on type, telescopic and articulated.....	(D)	(D)	677	100,500	365	165,883
3331201171, 175	Cranes, hydraulic operated, telescopic boom, wheel, one control station self-propelled, rubber mounted.....	1,369	274,955	648	57,231	77	15,046
3331201194	Cranes, pedestal or shipmounted.....	96	22,710	3,427	33,457	321	11,626
3331201132, 134, 185, 199	Cranes, all other not elsewhere classified.....	(D)	(D)	1,047	148,327	777	158,035
33312011A7	Clamshell/grapple (attachments).....	1,373	21,954	2,501	4,389	20,015	15,376
33312011A5	Dragline buckets (attachments).....	(X)	42,095	-	-	7,617	8,507
3331201222, 231, 247	Concrete mixers.....	(D)	(D)	8,343	26,624	116,301	64,471
3331201233, 239, 244	Slipform concrete paving machines, plaster and mortar mixers, and concrete screeds.....	30,295	168,143	1,835	57,821	3,911	6,971
3331201251	Concrete pumps, mobile.....	(D)	(D)	2,186	39,716	69,463	90,288
3331201266, 271, 275, 289	Bituminous pavers, self-propelled.....	3,223	337,893	1,147	38,311	689	2,644
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment.....	(D)	(D)	329	22,302	141	898
33312016E5	Scraper bowls.....	2,933	495,568	1,535	3,468	517	8,322
3331201661, 667	Motor graders and light maintainers.....	(D)	(D)	2,835	323,440	1,621	184,967
3331201687, 689, 692, 696, 699, 6A2, 6A6	Vibratory rollers and compactors.....	87,623	855,614	3,646	103,581	28,645	253,251
3331201671, 673, 676, 682	Static rollers and compactors.....	(D)	(D)	1,045	35,640	961	23,960
3331201371	Off-highway rear dump haulers.....	2,754	1,464,565	7,712	1,497,976	5,484	1,109,632
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	3,845	265,506	798	107,700	1,519	59,360
3339237231	Winches (towing, logging, and oil-field types).....	22,293	103,026	680,413	121,596	5,209,277	149,991
3331201782	Backhoes (shipped for mounting or already mounted).....	23,401	121,401	6,691	26,368	20,900	14,692
3331201799	Other construction machinery for mounting.....	119,996	415,168	44,352	109,569	145,533	150,473
3339237239							
33312016J4, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	7,521	178,156	2,946	24,570	-	-
33312016J9	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	56	18,196	828	29,245	74	2,926
2004							
3331201577	Wheeled log skidders, self-propelled.....	2,230	331,976	991	82,083	431	47,214
3331201599	Crawler tractors (except crawler loaders).....	9,474	1,648,849	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

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2005 and 2004
 [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/
3331201145	Cranes, lattice boom, wheel (rubber) mounted.....	(D)	(D)	406	58,770	73	19,883
3331201153, 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, 175	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.....	109	31,306	1,339	18,325	260	21,466
3331201132, 134, 185, 199	Cranes, all other not elsewhere classified.....	(D)	(D)	792	96,121	639	98,211
33312011A7	Clamshell/grapple (attachments).....	2,024	29,695	793	1,570	21,254	14,585
33312011A5	Dragline buckets (attachments).....	(X)	27,197	-	-	7,441	9,276
3331201222, 231, 247	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.....	25,173	147,522	2,122	59,733	6,995	5,995
3331201251	Concrete pumps, mobile.....	(D)	(D)	2,504	44,961	67,932	60,151
3331201266, 271, 275, 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.....	80,898	582,966	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.....	3,054	202,474	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
3331201782	Backhoes (shipped for mounting or already mounted).....	24,528	146,467	8,440	38,974	10,465	13,056
3331201799	Other construction machinery for mounting.....	114,122	307,236	34,478	63,852	98,349	114,704
3339237239							
33312016J4, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	(D)	(D)	1,271	14,373	26	116
33312016J9	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	38	11,661	489	16,747	19	2,642

- 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/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: 2005

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 8705.10.0010	8426.41.0010 8705.10.0010
3331201153, 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, 175	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, 185, 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: 2005

Product code 1/	Product description 2/	Export code 3/	Import code 4/
3331201233, 239, 244	Concrete pavers, finishers, and spreaders.....	8479.10.0040	8479.10.0040
3331201251	Concrete pumps, mobile.....	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 rollers and compactors.....	8429.40.0020	8429.40.0020
3331201671, 673, 676, 682	Self-propelled 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, 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 8431.42.0000 8431.49.9010 8431.49.9015	8428.90.0030 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
33312016J9	Self-propelled consinuous ditchers and trenchers (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: 2005 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 (2005).

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.