

# Construction Machinery: 2006

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### SUMMARY OF FINDINGS

For 2006, value of shipments of the types of construction machinery included in this report increased by 12.4 percent from \$22,053.6 million in 2005 to \$24,786.3 million in 2006.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments totaled \$4,161.2 million for 2006,

an increase of 13.1 percent from the 2005 total of \$3,680.1 million.

Value of shipments of mixers, pavers, and related equipment increased from \$1,866.2 million in 2005 to \$2,222.8 million in 2006, an increase of 19.1 percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, and wagons increased by 12.3 percent to \$1,940.4 million in 2006, from \$1,727.3 million in 2005.

Shipments of tractor shovel loaders increased from \$6,434.3 million in 2005 to \$6,735.8 million in 2006, an increase of 4.7 percent. 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 4.5 percent to \$2,615.6 million in 2006 from \$2,502.0 in 2005.

Winches and other materials-handling equipment for mounting increased 20.2 percent, from \$230.4 million in 2005 to \$276.9 million in 2006. Personal aerial work platforms increased from \$2,213.9 million in 2005 to \$2,978.9 million in 2006.

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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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

Table 1. Value of Shipments for Selected Construction Machinery: 2002 to 2006  
(Value in millions of dollars)

Product code	Product description	2006		2005	2004	2003	2002
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.....	4,161.2		3,680.1	2,853.4	2,607.7	2,440.3
33312012	Mixers, pavers, and related equipment.....	2,222.8		1,866.2	1,680.7	1,147.0	1,211.2
33312013	Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, wagons.....	1,940.4	r/	1,727.3	960.9	737.9	819.8
33312014	Tractor shovel loaders.....	6,735.8		6,434.3	4,760.9	3,949.7	3,413.1
33312015	Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	(D)		(D)	1,980.8	1,412.6	(D)
33312016	Motor graders and light maintainers including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled consinuous ditchers and trenchers (except parts).....	2,615.6	r/	2,502.0	2,069.8	1,498.4	1,728.4
33312017	Construction machinery for mounting on tractors and other prime movers (except winches and materials-handling equipment).....	(D)		(D)	442.5	279.3	238.2
33392372	Winches for mounting on wheel and crawler tractors and other prime movers.....	276.9	r/	230.4	(S)	(S)	(D)
3339237114	Personnel aerial work platforms (excluding parts).....	2,978.9		2,213.9	1626	1383.2	1586.159

D Withheld to avoid disclosing data for individual companies. r/Revised 5 percent or more from previously published data. S Does not meet publication standards.

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2006 and 2005  
[Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
	Total Construction Machinery	(NA)	1,250,444	24,786,323	1,259,919	22,053,629
33312011	Power cranes, draglines, and excavators, including surface mining equipment, and attachments.....	44	222,922	a/ 4,161,156	204,139	3,680,108
	Excavators, hydraulic-operated:					
	Crawler mounted, rated size in metric tons:					
3331201111	Not more than 24 metric tons.....	7	15,568	a/ 846,834	15,689	851,002
	More than 24 but not more than 40 metric tons.....	5	a/ 4,478	a/ 748,594	5,304	822,632
3331201114	More than 40 metric tons.....	5	2,050	519,582	1,818	424,010
3331201129	Wheel (rubber) mounted, all sizes.....	1	(D)	(D)	(D)	(D)
3331201130	Cranes, lattice boom, including crawler and wheel (rubber) mounted 1/.....	3	302	319,314	a/ 179	a/ 175,819
	Cranes, hydraulic-operated, telescopic boom:					
	Wheel cranes (integral), multiple control stations (rubber mounted), maximum working load of:					
3331201153	Not more than 27 metric tons (29.76 short tons).....	2	(D)	(D)	(D)	(D)
3331201156	More than 27 but not more than 50 metric tons.....	3	779	72,150	754	a/ 77,495
3331201158	More than 50 metric tons.....	3	408	151,422	a/ 415	b/ 228,269
3331201167	Pinned on type, telescopic and articulated.....	6	c/ 7,206	b/ 214,096	r/ 5,832	a/r/ 177,060
	Wheel cranes, one control station (self-propelled, rubber mounted), maximum working load of:					
3331201171	Not more than 16 metric tons (17.64 short tons)....	3	c/ 821	c/ 60,518	592	a/ 43,363
3331201175	More than 16 metric tons (17.64 short tons).....	3	1,320	422,200	777	231,592
3331201185	All-terrain cranes.....	3	(D)	(D)	197	59,085
	Other cranes and excavators:					
3331201194	Pedestal or shipmounted marine cranes.....	3	(D)	(D)	b/ 96	c/ 22,710
3331201199	All other cranes, excavators, and draglines, n.e.c. ....	4	(D)	(D)	1,232	265,411
	Attachments for power cranes, draglines, and excavators, sold separately:					
33312011A4	Hoe.....	7	a/ 41,331	90,939	a/r/ 37,846	r/ 85,488
33312011A5	Dragline buckets, all sizes.....	5	(X)	c/ 61,545	(X)	c/ 39,520
33312011A7	Clamshell/grapple.....	10	c/ 2,136	c/ 28,610	b/r/ 1,970	c/r/ 24,723
33312011AA	All other attachments, n.e.c. ....	18	145,120	a/ 221,737	131,339	a/ 143,954
33312012	Mixers, pavers, and related equipment.....	58	110,096	a/ 2,222,763	r/ 104,145	1,866,223
	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)	11,953	r/ 24,756
3331201233	Slipform concrete paving machines (including multipurpose, automated curb and gutter and concrete slipform pavers tip to and including 34 feet wide).....	10	840	103,159	667	81,761
3331201239	Concrete trowels.....	6	24,480	51,958	23,287	47,128
3331201241	Concrete vibrators (electric motor, gasoline engine, structural high-cycle, pneumatic, etc.).....	9	36,582	24,092	33,914	21,555
3331201244	Concrete screeds (hand-propelled or winch type).....	8	6,405	51,144	6,341	39,254
3331201247	Concrete batching plants, bin and batch, for concrete aggregate only and bulk cement.....	8	a/ 406	a/ 96,907	a/ 438	a/ 90,313
3331201251	Concrete pumps, mobile.....	3	(D)	(D)	(D)	(D)
3331201256	Other concrete, plaster, and mortar mixing and paving machinery.....	3	974	11,775	873	10,694
	For asphalt or bituminous applications:					
3331201266	Bituminous distributors.....	7	856	29,067	796	24,892
	Bituminous pavers, self-propelled:					
3331201271	21,999 lbs gross weight and under (basic unit).....	5	1,335	82,389	1,515	89,238
3331201275	22,000 lbs gross weight and over (basic unit).....	5	867	206,553	825	184,422
	Asphalt plants (including cold mix central plants):					
3331201282	Less than 7,500 pounds (239 tons per hour).....	1	(D)	(D)	(D)	(D)
3331201284	7,500 pounds and over (240 tph and over).....	4	a/ 47	a/ 130,010	a/ 57	a/ 113,844
3331201286	Bituminous stabilization mixing equipment (including central mixing plants and mix-in-place).....	3	(D)	(D)	184	51,491
3331201289	Bituminous cold planers/milling machines (self-propelled).....	3	91	43,922	87	39,341
3331201291	Other asphalt and bituminous mixing and paving machinery.....	7	c/ 759	b/ 72,003	a/ 753	a/ 57,250

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2006 and 2005  
[Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005			
			Quantity	Value	Quantity	Value		
3331201295	Other products, for use in either concrete or bituminous applications.....	14	12,096	64,587	r/	10,108		74,961
33312013	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	12	c/	7,701	a/	1,940,428	a/r/	6,560
3331201371	Off-highway rear dump haulers.....	6		2,635		1,484,565	a/r/	2,760
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	7	c/	5,066	c/	455,863		3,800
33312014	Tractor shovel loaders.....	17	a/	134,184		6,735,840		149,290
3331201460	Skid steer loaders, 4-wheel drive skid steer, all sizes.....	8	b/	90,579	b/	2,273,412		94,557
	Wheel loaders, rear engine mount, integral design, 4-wheel drive, non-skid steer:							
3331201471	Under 79 neph.....	3		225		7,076		290
3331201475	80-149 neph.....	9		4,769		501,667		4,517
3331201479	150-249 neph.....	6		6,418		970,453		6,028
3331201483	250 neph and over.....	5		3,144		1,278,549		2,610
3331201495	Integral design tractor shovel loader/backhoes (wheel tractor chassis shipped as part of front engine mount contractor tractor).....	5		29,049		1,704,683	a/	41,288
33312015	Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders.....	9		(D)		(D)		(D)
3331201577	Wheeled log skidders, self-propelled.....	5		1,475		240,041		2,074
3331201599	Crawler tractors (except crawler loaders) and tracklaying and other contractors' off-highway-type wheel tractors and dozers.....	9		(D)		(D)		(D)
33312016	Motor graders and light maintainers, including rollers and compactors, rough-terrain forklifts, and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts).....	33		116,702		2,615,609		112,042
3331201662	Motors graders, and light maintainers 2/.....	4		(D)		(D)		(D)
3331201672	Rollers and compactors (static smooth steel wheel rollers, tandem) 3/.....	5		283		6,087		345
3331201682	Pneumatic tire rollers.....	5		(D)		(D)		(D)
	Vibratory single drum with 1 or 2 drive wheels:							
3331201687	Under 5 metric tons.....	9		1,514		60,718		1,880
3331201689	At least 5 but less than 8 metric tons.....	3		1,213		88,125		1,417
3331201692	8 metric tons and over.....	3		2,802		241,750		2,463
3331201693	Vibratory double drum, two drums vibrating 4/.....	5		4,114		136,789		4,104
33312016A6	All other compaction equipment (except hand-held) including embankment and landfill compactors, towed roller and double drum compactors with one drum vibrating.....	9		83,246		335,381		77,759
	Rough-terrain forklifts (integral units only)							
33312016D1	Vertical mast, 2-wheel drive.....	7		2,521		93,742	a/	3,101
33312016D3	Vertical mast, 4-wheel drive.....	6		978		37,778	b/	1,243
33312016D5	Telescopic handlers, 2- and 4-wheel drive.....	5	b/	5,747	b/	373,497		5,541
33312016E5	Scraper bowls.....	5		2,201		186,818	b/	2,875
	Ditchers and trenchers, self-propelled (integral units only):							
	Ladder-type digging element:							
33312016J4	No more than 5,000 lbs gross weight.....	4	b/	5,805	b/	70,852	a/	5,650
33312016J7	More than 5,000 lbs gross weight.....	4	c/	2,074	c/	136,710	a/	1,871
33312016J9	Wheel-type digging element.....	3	b/	62	a/	24,312	b/	56
33312017	Construction machinery for mounting on tractors, and other prime movers, except winches and materials-handling equipment.....	29		(D)		(D)		(D)

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2006 and 2005  
[Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005			
			Quantity	Value	Quantity		Value	
3331201782	Backhoes, either shipped for mounting separately or already mounted on an integral unit.....	9	18,266	99,039	r/	19,971	r/	101,019
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, folklift attachments, cranes, cable power control units, hydraulic power control units, etc. ....	24	(D)	(D)		(D)		(D)
33392372	Winches for mounting on wheel and crawler tractors and other prime movers.....	10	398,914	276,909	r/	445,217	r/	230,384
3339237231	Winches (towing, logging, and oil field types).....	9	(D)	(D)	r/	443,753	r/	216,260
3339237239	Other equipment.....	2	(D)	(D)		1,464		14,124
3339237114	Personnel aerial work platforms (excluding parts) 5/.....	13	a/ 104,408	a/ 2,978,883		89,104		2,213,944

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

1/Product code 3331201130 is a combination of product codes 3331201132, 3331201134, and 3331201145 from 2005.  
2/Product code 3331201662 is a combination of product codes 3331201661 and 3331201667 from 2005.  
3/Product code 3331201672 is a combination of product codes 3331201671, 3331201673, and 3331201676 from 2005.  
4/Product code 3331201693 is a combination of product codes 3331201696, 3331201699, and 33312016A2 from 2005.  
5/Product code 3339237114 is a combination of product codes 3339237111, 3339237113, 3339237115, and 3339237117 from 2005.

Note: Product code 3331201488, "Crawler loaders," is no longer collected.

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

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2006 and 2005  
[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/
2006							
3331201577	Wheeled log skidders, self-propelled.....	1,475	240,041	680	63,927	330	51,719
3331201599	Crawler tractors (except crawler loaders).....	(D)	(D)	1,311	500,880	11,633	622,291
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.....	14,556	2,757,745	29,549	1,161,881	10,539	876,556
3331201460	Skid steer loaders.....	90,579	2,273,412	1,650	84,205	8,736	226,963
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted.....	22,096	2,115,010	4,550	471,091	43,060	2,890,223
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	(D)	(D)	51	6,936	1,096	133,622
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)	1,007	118,491	394	184,955
3331201171, 175	Cranes, hydraulic operated, telescopic boom, wheel, one control station self-propelled, rubber mounted.....	2,141	482,718	922	79,266	37	9,202
3331201194	Cranes, pedestal or shipmounted.....	(D)	(D)	4,356	36,974	322	24,043
3331201130, 185, 199	Cranes, all other not elsewhere classified.....	(D)	(D)	2,174	264,878	1,446	317,981
33312011A7	Clamshell/grapple (attachments).....	2,136	28,610	862	2,957	13,277	14,474
33312011A5	Dragline buckets (attachments).....	(X)	61,545	-	-	7,577	4,649
3331201222, 231, 247	Concrete mixers.....	(D)	(D)	13,555	48,801	139,247	80,422
3331201233, 239, 244	Slipform concrete paving machines, plaster and mortar mixers, and concrete screeds.....	31,725	206,261	1,703	72,863	19,729	11,241
3331201251	Concrete pumps, mobile.....	(D)	(D)	2,585	65,778	47,871	94,552
3331201266, 271, 275, 289	Bituminous pavers, self-propelled.....	3,149	361,931	832	61,353	157	2,584
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment.....	(D)	(D)	912	38,498	125	1,946
33312016E5	Scraper bowls.....	2,201	186,818	452	2,810	159	10,423
3331201661, 667	Motor graders and light maintainers.....	(D)	(D)	3,174	472,887	1,971	209,628
3331201687, 689, 692, 696, 699, 6A2, 6A6	Vibratory rollers and compactors.....	92,889	862,763	3,896	141,976	18,518	217,695
3331201671, 673, 676, 682	Static rollers and compactors.....	(D)	(D)	953	39,349	1,133	17,041
3331201371	Off-highway rear dump haulers.....	2,635	1,484,565	5,474	2,049,636	5,282	1,213,064
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	5,066	455,863	1,142	78,120	1,147	79,556
3339237231	Winches (towing, logging, and oil-field types).....	(D)	(D)	419,284	147,585	5,323,060	171,332
3331201782	Backhoes (shipped for mounting or already mounted).....	18,266	99,039	10,875	57,573	22,996	20,541
3331201799	Other construction machinery for mounting.....	(D)	(D)	47,296	128,723	158,279	168,887
3339237239							
33312016J4, 6J7	Ditchers and trenchers, self-propelled (integral units) ladder-type digging element.....	7,879	207,562	598	32,805	17	297
33312016J9	Ditchers and trenchers, self-propelled (integral units) wheel-type digging element.....	62	24,312	766	25,929	692	5,095
2005							
3331201577	Wheeled log skidders, self-propelled.....	2,074	324,267	994	79,040	362	53,456
3331201599	Crawler tractors (except crawler loaders).....	(D)	(D)	1,846	348,879	7,243	567,288
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
3331201111, 114, 117	Excavators, hydraulic operated, crawler mounted.....	22,811	2,097,644	3,755	376,344	37,827	2,391,900

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2006 and 2005  
[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/
3331201129	Excavators, hydraulic operated, wheel (rubber) mounted.....	(D)	(D)	38	4,867	1,122	122,123
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
3331201130, 185, 199	Cranes, all other not elsewhere classified.....	1,608	500,315	1,622	244,132	1,017	198,874
33312011A7	Clamshell/grapple (attachments).....	1,970	24,723	2,501	4,389	20,015	15,376
33312011A5	Dragline buckets (attachments).....	(X)	39,520	-	-	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.....	2,875	245,445	1,535	3,468	517	8,322
3331201662	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.....	3,297	164,078	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.....	2,760	1,465,222	7,712	1,497,976	5,484	1,109,632
3331201376	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons.....	3,800	262,032	798	107,700	1,519	59,360
3339237231	Winches (towing, logging, and oil-field types).....	443,753	216,260	680,413	121,596	5,209,277	149,991
3331201782	Backhoes (shipped for mounting or already mounted).....	19,971	101,019	6,691	26,368	20,900	14,692
3331201799	Other construction machinery for mounting.....	116,443	403,812	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	-	-
		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

- 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: Bureau of Census report EM 545, U.S. Exports.

4/Source: Bureau of Census 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: 2006

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 pt.	Crawler tractors (except crawler loaders).....	8701.30.0015	8701.30.1015
		8701.30.0030	8701.30.1030
		8701.30.0045	8701.30.1045
		8701.30.0060	8701.30.1060
		8701.30.0075	8701.30.1075
			8701.30.5015
			8701.30.5030
			8701.30.5045
3331201471, 475, 479, 483	Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer.....	8429.51.1015	8429.51.1015
		8429.51.1025	8429.51.1025
		8429.51.1030	8429.51.1030
		8429.51.1035	8429.51.1035
		8429.51.1040	8429.51.1040
		8429.51.1045	8429.51.1045
		8429.51.1050	8429.51.1050
		8429.51.1055	8429.51.1055
3331201460	Skid steer loaders.....	8429.51.1060	8429.51.1060
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
3331201153, 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, 175	Cranes, wheel, hydraulic operated, telescopic boom, one control station (self-propelled, rubber mounted).....	8426.41.0090	8426.41.0090
3331201194	Cranes, pedestal or shipmounted.....	8426.30.0000	8426.30.0000
3331201130, 185, 199	Cranes, other.....	8426.49.0010	8426.49.0010
		8426.41.0010	8426.41.0010
		8705.10.0010	8705.10.0010
		8426.49.0090	8426.49.0090
		8429.52.1020	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, 244	Concrete pavers, finishers, and spreaders.....	8479.10.0040	8479.10.0040



Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2006

Product code 1/	Product description 2/	Export code 3/	Import code 4/
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
3331201662	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
3331201672, 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....	8704.10.1000 8704.10.5060	8704.10.1000 8704.10.5060
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
33312016J4, 6J7	Self-propelled continuous ditchers and trenchers (integral units), ladder-type digging element.....	8429.59.5020	8429.59.5020
33312016J9	Self-propelled continuous ditchers and trenchers (integral units), wheel-type digging element.....	8429.59.5040	8429.59.5040

pt. Part.

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

2/Source: 2006 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

3/Source: Harmonized Tariff Schedule of the United States, Annotated (2006).

# Appendix.

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

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### 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.)

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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.

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**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.