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SUMMARY OF FINDINGS

For 2002, value of shipments of the types of construction machinery included in this report, except motor graders, and light maintainers, construction machinery for mounting on trucks, tractors, etc., and scraper bowls decreased by 12.5 percent, to \$12,438.2 million from \$14,219.0 million in 2001.

Shipments of power cranes, draglines, and excavators, including surface mining equipment, and attachments totaled \$2,533.0 million for 2002, a decrease of 7.0 percent from the 2001 total of \$2,724.4 million.

Value of shipments of mixers, pavers, and related equipment decreased from \$1,431.2 million in

2001 to \$1,222.7 million in 2002, a decrease of 14.6 percent. Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or wagons decreased by 13.6 percent \$818.3 million in 2002 from \$947.3 million in 2001.

Shipments of tractor shovel loaders decreased from \$3,751.7 million in 2001 to \$3,413.1 million in 2002, a decrease of 9.0 percent.

Crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders decreased by 2.8 percent, from \$1,322.9 million in 2001 to \$1,286.3 million in 2002. Rollers and compactors decreased from \$474.7 million in 2001 to \$422.7 million in 2002.

Shipments of rough terrain forklifts (integral units only) decreased by 15.8 percent to \$525.0 million in 2002, from \$623.2 million in 2001. Ditchers and trenchers, self-propelled (integral units only) decreased from \$305.1 million in 2001 to \$284.0 million for 2002. Construction machinery for mounting on trucks, tractors, and other prime movers, except winches, hoists, and other materials-handling equipment, decreased from \$267.7 million in 2001 to \$242.2 million in 2002. Aerial work platforms decreased 29.7 percent, from \$2,257.3 million in 2001 to \$1,586.2 million in 2002.

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 Marvella Jones, 301-763-4743.

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

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Table 1. Value of Shipments for Selected Construction Machinery: 1998 to 2002 [Value in millions of dollars]

Product description	2002		2001	2000	1999	1998
Power cranes, draglines, and excavators,						
including surface mining equipment, and						
attachments	r/ 2,533.0	r/	2,724.4	3,255.3	3,124.7	2,645.1
Mixers, pavers, and related equipment	1,222.7		1,431.2	1,894.5	1,608.2	1,246.4
Off-highway trucks, truck-type tractor chasis,						
trailers, coal haulers, wagons	818.3		947.3	1,062.9	834.6	1,425.6
Tractor shovel loaders	3,413.1		3,751.7	4,148.7	4,049.2	4,157.4
Crawler tractors, contractors' off-highway-						
type wheel tractors, dozers, and self-						
propelled wheeled log skidders	1.286.3		1,322.9	1,427.5	1,382.2	1,985.6
Motor graders and light maintainers	(D)		(D)	557.5	(D)	(D)
Rollers and compactors	422.7		474.7	676.5	590.2	358.9
Rough-terrain forklifts	525.0	,	623.2	600	616.8	668.1
Rough terrum forkints	323.0	1/	025.2	000	010.0	000.1
Scraper bowls	(D)		(D)	(D)	343.4	(D)
Self-propelled ditchers and trenchers	(D)		(D)	(D)	515.1	(D)
(integral units)	284.0		305.1	566.4	287.4	266.7
Construction machinery for mounting on	204.0		303.1	300.4	207.4	200.7
trucks, tractors, etc.	(V)		(V)	(V)	(V)	(V)
	(X)		(X)	(X)	(X)	(X)
Construction machinery (except winches and						
other materials-handling equipment) for	, ,,,,,			2121	0=40	0.00
mounting on trucks, tractors, etc	r/ 242.2		267.7	312.1	274.8	278.3
Winches and other materials-handling					(= \)	<i>(</i> =)
equipment, for mounting	104.7		113.5	114.3	(D)	(D)
Aerial work platforms	r/ 1,586.2		2,257.3	3,055.3	2,491.8	1,571.0

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. X Not applicable.

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2002 and 2001 [Quantity in units. Value in millions of dollars]

,	•							
		No.	200	2		20	01	
Product code	Product description	of cos.	Quantity	Value		Quantity		Value
33312011	Power cranes, draglines, and excavators,							
	including surface mining equipment,							
	and attachments	(NA)	(X)	r/ 2,532,958		(X)	r/	2,724,416
	Excavators, hydraulic operated:							
	Crawler mounted, rated size in metric							
	tons:							
333120111	Not more than 24 metric tons	8	9,971	429,635		9,734	r/	392,644
2221201114	More than 24 but not more than	_	4 406	 -00		- 0-0		604 740
3331201114	40 metric tons	5	4,486	577,788		5,959		624,742
3331201117 3331201129	More than 40 metric tons Wheel (rubber) mounted, all sizes	4 2	1,159 (D)	278,773 (D)		1,076 (D)		264,211 (D)
3331201129	Cranes, lattice boom:	۷	(D)	(D)		(D)		(D)
	Crawler mounted, maximum working							
	load:							
3331201132	Not more than 110 metric tons	5	321	168,097		(D)		(D)
3331201134	More than 110 metric tons	3	(D)	(D)		366		205,658
3331201145	Wheel (rubber) mounted	1	(D)	(D)		(D)		(D)
3331201146	Cranes, hydraulic operated, telescopic							
	boom:							
	Wheel cranes (integral), multiple							
	control stations (rubber mounted),							
2221201150	maximum working load of:	2	0.0	0.601		(5)		(D)
3331201152	Not more than 18 metric tons	3	89	9,601		(D)		(D)
3331201153	More than 18 but not more than 27 metric tons	1	(D)	(D)		(D)		(D)
3331201156	More than 27 but not more than	1	(D)	(D)		(D)		(D)
3331201130	50 metric tons	3	2,575	33,891	r/	2,675		40,581
3331201158	More than 50 metric tons	3	220	74,594	1/	309		106,981
3331201167	Pinned on type, telescopic and	3	220	7 1,55 1		303		100,501
	articulated	6	2,300	109,617		2,569	r/	121,319
	Wheel cranes, one control station			•				•
	(self-propelled, rubber mounted),							
	maximum working load of:							
3331201171	Not more than 16 metric tons	6	490	30,656		578		39,448
3331201174	More than 16 metric tons but not	_	<i>,</i> _,	<i>(</i> =)		(=)		<i>(</i> -)
2221201177	more than 22.7 metric tons	1	(D)	(D)		(D)		(D)
3331201177	More than 22.7 metric tons	2	(D)	(D)		(D)		(D)
	All-terrain cranes, maximum working loads of:							
3331201182	Not more than 20 metric tons	3	(D)	(D)		(D)		(D)
3331201184	More than 20 metric tons but not	3	(2)	(2)		(2)		(2)
	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							
2221201100	cranes	4	163	74,851	c/	91	c/	38,128
3331201199	All other cranes, excavators, and	_	777	116 017		717	/	110.072
	draglines, n.e.c	5	777	116,017		717	r/	110,972
	lines, and excavators, sold separately:							
33312011A	Hoe	5	r/ 20,027	r/ 32,016	r/	19,124	r/	30,451
33312011A5	Dragline buckets, all sizes	7	955	74,286	a/	1,065	,	100,372
33312011A7	Clamshell/grapple	10	r/ 1,442	r/ 18,308	r/	1,548	r/	21,324
33312011AA	All other attachments, n.e.c.	20	132,418	131,861	r/	129,827	a/	160,003

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2002 and 2001 [Quantity in units. Value in millions of dollars]

Post of	Pool of local table	No.	2002			20	01	
Product code	Product description	of cos.	Quantity	Value		Quantity		Value
33312012	Mixers, pavers, and related equipment For concrete, plaster, or mortar applications:	(NA)	(X)	1,222,656		(X)		1,431,154
3331201222	Concrete mixers (except plaster and mortar), portable, including truck or	10	(D)	(D)		(D)		(D)
2221201221	other mixer or agitator, all sizes	10	(D)	(D)		(D)		(D)
3331201231 3331201233	Plaster and mortar mixers, all sizes Slipform concrete paving machines, including multipurpose, automated curb and gutter and concrete slipform pavers, up to and including	3	(D)	(D)		28,871	,	50,867
2221221222	34-feet wide	10	563	72,560	,	639	r/	84,918
3331201239 3331201241	Concrete trowels Concrete vibrators (electric motor, gasoline engine, structural high-	6	9,446	17,602	r/	11,252	r/	25,523
3331201244	cycle, pneumatic, etc.) Concrete screeds (hand-propelled or	9	29,526	18,848		30,593		19,357
3331201247	winch type) Concrete batching plants, bin and batch, for concrete aggregate only	8	(D)	(D)		(D)		(D)
	and bulk cement	11	591	67,885		488		97,005
3331201251 3331201256	Concrete pumps, mobileOther concrete, plaster, and mortar	3	(D)	(D)		(D)		(D)
	mixing and paving machinery For asphalt or bituminous applications:	4	770	9,855		941		11,404
3331201266	Bituminous distributors Bituminous pavers, self-propelled: 21,999 lb gross weight and under	8	638	20,814	a/	578		21,076
3331201271 3331201275	(basic unit)22,000 lb gross weight and over	4	1,091	50,984		1,170		53,663
3331201273	(basic unit)Asphalt plants, including cold mix central plants:	5	534	101,339		552		108,454
3331201282 3331201284	Less than 7,500 lb (239 tph)	2	(D)	(D)		67		22,842
3331201286	over) Bituminous stabilization mixing equipment, including central mixing	4	93	178,686	b/	93		195,631
3331201289	plants and mix-in-place Bituminous cold planers/milling	5	154	47,235	r/	173	r/	51,826
3331201291	machines (self-propelled) Other asphalt and bituminous mixing	3	77	31,777		(D)		(D)
3331201295	and paving machinery Other products, for use in either con-	7	357	28,686	a/	359	r/	17,316
	crete or bituminous applications	11	2,798	40,342	r/	3,724		41,048
33312013	Off-highway trucks, truck-type tractor chassis, trailers, coal haulers, or	(NIA)	(37)	010 241		(37)		047 200
2221201271	Wagons	(NA)	(X)	818,341		(X)		947,298
3331201371 3331201376	Off-highway rear dump haulers Other	6 6	(D) (D)	(D) (D)		(D) (D)		(D) (D)
33312014 3331201460	Tractor shovel loadersSkid steer loaders, 4-wheel drive skid	(NA)	(X)	3,413,075		(X)		3,751,670
322-201100	steer, all sizes	5	60,616	1,120,639		64,174		1,093,252

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2002 and 2001 [Quantity in units. Value in millions of dollars]

,	•	No.	2002			20	01	
Product code	Product description	of	Quantity	Value		Quantity	01	Value
	Wheel loaders, rear engine mount, integral design, 4-wheel drive, nonskid							
3331201471	steer: Under 79 nehp	3	228	6,298		146		4,525
3331201471	80 through 149 nehp	8	5,368	467,455		5,946		506,720
3331201473	150 through 249 nehp	6	3,022	397,584		3,444		443,958
3331201483	250 nehp and over	5	(D)	(D)		(D)		(D)
3331201488	Crawler loaders	2	(D)	(D)		(D)		(D)
3331201495	Integral design tractor shovel loader/backhoes (wheel tractor-chassis shipped as part of front engine mount contractor tractor)	6	22,911	824,187		27,443		944,792
	confractor tractor/////	Ü	22,011	021,107		27,113		311,732
33312015	Crawler tractors, contractors' off-highway- type wheel tractors, dozers, and self- propelled wheeled log skidders	(NA)	(X)	1,286,325		(X)		1,322,914
3331201577 3331201599	Wheeled log skidders, self-propelled	7	(D)	(D)		(D)		(D)
	dozers	10	(D)	(D)		(D)		(D)
33312016 pt.	Motor graders and light maintainers	(NA)	(X)	(D)		(X)		(D)
3331201661	Under 144 nehp	6	(D)	(D)		(D)		(D)
3331201667	145 nehp and over	3	(D)	(D)		(D)		(D)
33312016 pt.	Rollers and compactorsStatic smooth steel wheel rollers, tandem:	(NA)	(X)	422,724		(X)	r/	474,690
3331201671 3331201673	Under 3 metric tons	4	(D)	(D)		340		2,602
	tons	2	(D)	(D)		(D)		(D)
3331201676	5.5 metric tons and over	2	(D)	(D)		(D)		(D)
3331201682	Pneumatic tire rollers Vibratory single drum with one or two drive wheels:	5	370	16,399	r/	431		20,703
3331201687	Under 5 metric tons	8	511	13,974		781		21,665
3331201689	At least 5 but less than 8 metric tons	4	(D)	(D)		(D)		(D)
3331201692	8 metric tons and over Vibratory double drum, two drums vibrating:	4	(D)	(D)		(D)		(D)
3331201696	Under 5 metric tons	5	2,231	27,258	r/	2,190	r/	32,048
3331201699	At least 5 but less than 8 metric tons	3	389	23,440	•	(D)	•	(D)
33312016A2 33312016A6	8 metric tons and over	3	568	46,068		550		44,533
	double drum compactors with one drum vibrating	8	38,648	169,527		41,642	r/	196,522
33312016 pt.	Rough terrain forklifts (integral units	/a * / :	, -	505 005		/ - - \		000.00-
2221201001	only)	(NA)	(X)	525,025	b /	(X)	r/	623,235
33312016D1 33312016D3	Vertical mast, 2-wheel drive Vertical mast, 4-wheel drive	10 10	1,982 1,081	139,771	b/	1,920 1 607	U/ I'/	172,200 23,027
33312016D3 33312016D5	Telescopic handlers, 2- and 4-wheel	10	1,001	21,184		007		43,047
3331201003	drive	8	6,381	364,070	r/	6,517	r/	428,008
33312016E5	Scraper bowls	4	(D)	(D)		(D)		(D)

Table 2. Quantity and Value of Shipments of Selected Construction Machinery: 2002 and 2001 [Quantity in units. Value in millions of dollars]

Product	Product description	No. of	200	2		20	01	
code	rioduct description	cos.	Quantity	Value		Quantity		Value
33312016 pt.	Ditchers and trenchers, self-propelled (integral units only)Ladder-type digging element:	(NA)	(X)	284,016		(X)		305,058
33312016J3 33312016J5 33312016J7	Under 2,000 lb gross weight	5 4 4	(D) 1,571 1,695	(D) 48,216 196,710	r/	(D) 1,825 2,073	r/	(D) 50,327 218,241
33312016JJ	Wheel-type digging element	3	(D)	(D)		(D)		(D)
33312017	Construction machinery for mounting on trucks, tractors, and other prime movers (except winches, hoists, and other materials-handling equipment)	(NA)	(X)	r/ 242,176		(X)	r/	267,729
3331201782	Backhoes, either shipped for mounting separately or already mounted on an	,	· · /	, , , , , ,			,	
3331201799	integral unit	8	14,217	77,866		15,657		89,559
	units, etc.	26	33,847	r/ 164,310	a/r/	34,621	r/	178,170
33392372 pt. 3339237231	Winches and materials-handling equip- ment mounting	(NA)	(X)	104,673		(X)		113,458
3339237239	types) Other equipment	8 2	(D) (D)	(D) (D)		(D) (D)		(D) (D)
33392371 pt. 3339237111 3339237113 3339237115	Aerial work platforms Boom type, self-propelled Scissors type, self-propelled Not self-propelled, boom and scissors	(NA) 8 6	(X) 13,279 23,148	r/ 1,586,159 723,397 297,685	r/	(X) 25,861 22,628		2,257,310 969,009 440,559
3339237117	typeTruck mounted	5 12	(D) (D)	(D) (D)		(D) (D)		(D) (D)

⁻ Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. nehp Net engine horsepower. pt. Partial. r/Revised by 5 percent or more from previously published data. 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: 2002 and 2001 [Quantity in number of units. Value in millions of dollars]

	Manufacturers' Export Imports for shipments 1/ shipments 3/ consumption 4						
Product description				Value as			
	Quantity	Value 2/	Quantity	reported	Quantity	Value 5/	
2002							
Wheel tractors, contractors' off-highway type,							
2- and 4- wheel for use on natural terrain	(D)	(D)	2,244	44,049	1,772	20,484	
Rubber-tired dozers	(D)	(D)	244	13,995	32	1,593	
Wheeled log skidders, self-propelled	(D)	(D)	715	41,124	160	19,899	
Crawler tractors (except crawler loaders)	(D)	(D)	920	226,808	3,986	232,956	
Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer	(D)	(D)	16,062	557,671	7,250	356,177	
Skid steer loaders	60,616	1,120,639	712	37,218	2,311	65,057	
Crawler loaders	(D)	(D)	94	4,401	1,178	135,187	
Excavators, hydraulic operated, crawler mounted	15,616	1,286,196	2,503	276,169	12,446	799,802	
Excavators, hydraulic operated, wheel (rubber)							
mounted	(D)	(D)	56	6,579	492	39,008	
Cranes, lattice boom, wheel (rubber) mounted	(D)	(D)	253	44,949	34	15,410	
Cranes, wheel (integral), hydraulic operated,							
telescopic boom, multiple control stations (rubber mounted), including pinned on type,							
telescopic and articulated	(D)	(D)	392	29,600	272	118,591	
Cranes, wheel, hydraulic operated, telescopic	(2)	(2)	33 2	23,000	2,2	110,331	
boom, one control station (self-propelled, rubber							
mounted)	(D)	(D)	347	34,691	88	14,240	
Cranes, pedestal or ship mounted	163	74,851	2,153	24,883	9,900	176,151	
Cranes, other	777	116,017	408	82,559	995	138,342	
Clamshell/grapple attachments	(D)	(D)	1,084	1,646	6,764	7,553	
Dragline buckets (attachments)	955 (D)	74,286 (D)	2,366	24,663	12,111 70,165	9,667 42,452	
Concrete pavers, finishers, and spreaders	(D)	(D) (D)	2,300 856	31,555	329	1,398	
Concrete pumps	(D)	(D)	2,450	19,733	1,419	23,439	
Bituminous pavers, finishers, and spreaders	2,340	204,914	593	29,920	204	2,383	
Asphalt plants and bituminous stabilization mixing	,			•		ŕ	
equipment	(D)	(D)	384	20,037	38	2,123	
Scraper bowls	(D)	(D)	138	180	254	15,882	
Motor graders and light maintainers	(D)	(D)	2,342	216,847	761	87,546	
Self-propelled vibratory compaction equipment	44,085	399,465	1,729	39,466	4,076	79,395	
Self-propelled static compaction equipment Off-highway rear dump haulers, trucks, and	(D)	(D)	847	27,413	2,449	19,162	
truck trailers, including ridged and articulated	(D)	(D)	1,682	544,592	2,728	346,099	
Off-highway trucks, truck-type tractor chassis,	(-)	(- /	_,	,	_,,	,	
trailers, and wagons	(D)	(D)	320	15,606	182	15,901	
Winches for mounting (towing, logging, and oil							
field types)	(D)	(D)	457,554	81,326	3,456,695	114,916	
Backhoes for mounting	14,217	77,866	10,774	40,307	5,658	5,896	
Other construction machinery for mounting Self-propelled continuous ditchers and trenchers	(D)	(D)	13,758	36,100	56,228	73,779	
(integral units), ladder-type digging element	(D)	(D)	1,141	12,792	3	91	
Self-propelled continuous ditchers and trenchers	(D)	(D)	1,141	12,732	3	31	
integral units), wheel-type digging element	(D)	(D)	365	15,317	115	2,180	
2001							
Wheel tractors, contractors' off-highway type,							
2- and 4- wheel for use on natural terrain	(D)	(D)	3,237	72,417	1,392	20,015	
Rubber-tired dozers	(D)	(D)	209	15,386	39	1,620	
Wheeled log skidders, self-propelled	(D)	(D)	800	37,440	180	23,653	
Crawler tractors (except crawler loaders)	(D)	(D)	855	224,071	3,852	228,197	

Table 3. Shipments, Exports, and Imports of Selected Construction Machinery: 2002 and 2001 [Quantity in number of units. Value in millions of dollars]

Product description	Manufacturers' shipments 1/		Expo shipme		Imports for consumption 4/	
riodact description	Quantity	Value 2/	Quantity	Value as reported	Quantity	Value 5/
Wheel loaders, rear engine mount, integral design 4-wheel drive, nonskid steer	(D)	(D)	13,803	547,140	5,640	381,417
Skid steer loaders	64,174	1,093,252	2,269	53,282	1,592	69,321
Crawler loaders	(D)	(D)	80	4,470	1,191	154,560
Excavators, hydraulic operated, crawler mounted Excavators, hydraulic operated, wheel (rubber)	16,769	1,281,597	2,512	262,127	12,385	798,878
mounted	(D)	(D)	97	8,262	441	35,743
Cranes, lattice boom, wheel (rubber) mounted	(D)	(D)	248	38,467	121	36,784
Cranes, wheel (integral), hydraulic operated,						
telescopic boom, multiple control stations						
(rubber mounted), including pinned on type, telescopic and articulated	(D)	(D)	290	40,408	506	113,327
Cranes, wheel, hydraulic operated, telescopic	(D)	(D)	290	40,406	300	113,327
boom, one control station (self-propelled, rubber						
mounted)	(D)	(D)	491	39,901	140	20,017
Cranes, pedestal or ship mounted	91	38,128	1,006	15,694	1,133	25,819
Cranes, other	717	110,972	408	91,508	1,708	197,465
Clamshell/grapple attachments	(D)	(D)	1,044	2,325	3,046	5,297
Dragline buckets (attachments)	1,065	100,372	-	-	3,450	5,127
Concrete mixers	(D)	(D)	2,203	22,655	67,921	42,605
Concrete pavers, finishers, and spreaders	(D)	(D)	1,073	34,730	668	1,124
Concrete pumps	(D)	(D)	2,383	18,356	4,295	40,396
Bituminous pavers, finishers, and spreaders	(D)	(D)	658	30,624	154	1,578
Asphalt plants and bituminous stabilization mixing						
equipment	333	270,299	424	18,854	74	1,268
Scraper bowls	(D)	(D)	463	192	527	25,856
Motor graders and light maintainers	(D)	(D)	1,913	187,946	695	68,605
Self-propelled vibratory compaction equipment	(D) (D)	(D) (D)	2,650 928	49,997 42,328	3,928 1,029	69,745 18,443
Off-highway rear dump haulers, trucks, and	(D)	(D)	926	42,326	1,029	16,445
truck trailers, including ridged and articulated	2,009	773,047	2,410	659,801	1,862	319,708
Off-highway trucks, truck-type tractor chassis, trailers, and wagons	(D)	(D)	824	78,082	274	28,034
Winches for mounting (towing, logging, and oil						
field types)	(D)	(D)	474,285	81,341	3,352,795	85,202
Backhoes for mounting	15,657	89,559	10,606	33,167	16,740	3,481
Other construction machinery for mounting	(D)	(D)	13,472	37,395	57,850	77,116
Self-propelled continuous ditchers and trenchers	(D)	(B)	1 105	10.245	10	1.0
(integral units), ladder-type digging element	(D)	(D)	1,195	18,345	13	16
integral units), wheel-type digging element	(D)	(D)	368	12,034	120	3,567

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

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

^{2/}Value f.o.b. plant.

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

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

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

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2002

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

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2002

Product code	Product description	Export code 1/	Import code 2/
3331201152, 154, 156, 158, 167	Cranes, wheel (integral), hydraulic operated telescopic boom, multiple control stations (rubber mounted) stations, including pinned on type, telescopic and articulated	8705.10.0050	8705.10.0050
3331201171, 174, 177	Cranes, wheel, hydraulic operated, telescopic boom, one control station (self-propelled, rubber mounted)	8426.41.0090	8426.41.0090
3331201194	Cranes, pedestal or ship mounted	8426.30.0000	8426.30.0000
3331201132, 134, 182, 184, 186, 188, 199	Cranes, other	8426.49.0010 8426.49.0090 8429.52.1020	8426.49.0010 8426.49.0090 8429.52.1020
33312011A7	Clamshell/grapple attachments for power cranes, draglines, and excavators, sold separately	8431.41.0040	8431.41.0040
33312011A5	Dragline bucket attachments for power cranes, draglines, and excavators, sold separately	8431.41.0060	8431.41.0060
3331201222, 231, 247	Concrete mixers	8474.31.0000	8474.31.0000
3331201233, 239, 239, 244	Concrete pavers, finishers, and spreaders	8479.10.0040	8479.10.0040
3331201251	Concrete pumps	8413.40.0000	8413.40.0000
3331201266, 271, 275, 289	Bituminous pavers, finishers, and spreaders	8479.10.0060	8479.10.0060
3331201282, 284, 286	Asphalt plants and bituminous stabilization mixing equipment	8474.32.0000	8474.32.0000
33312016E5	Scraper bowls	8431.49.9045	8431.49.9045
3331201661, 667	Motor graders and light maintainers	8429.20.0000	8429.20.0000
3331201687, 689, 692, 696, 699, 6A2, 6A6	Self-propelled vibratory compaction equipment	8429.40.0020	8429.40.0020

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2002

Product code	Product description	Export code 1/	Import code 2/
3331201671, 673, 676, 682	Self-propelled static compaction equipment	8429.40.0040	8429.40.0040
3331201371	Off-highway rear dump haulers, trucks and truck trailers, including ridged and articulated	8704.10.5020 8704.10.5030 8704.10.5040 8704.10.5050	8704.10.5020 8704.10.5030 8704.10.5040 8704.10.5050
3331201376	Off-highway trucks, truck-type tractor chassis, trailers, and wagons	8704.10.5060 8704.10.1000	8704.10.5060 8704.10.1000
3339237231	Winches for mounting (towing, logging, and oil field types)	8425.31.0000 8425.39.0000	8425.31.0000 8425.39.0000
3331201782	Backhoes for mounting (whether or not mounted on an integral unit)	8431.49.9005	8431.49.9005
3331201799, 3339237239	Other construction machinery for mounting, including sidebooms, pipehandlers, dozers, front-end loaders, rippers, and rooters	8428.90.0030 8428.90.8030 8431.42.0000 8431.49.9010 8431.49.9015	8428.90.0030 8428.90.8030 8431.42.0000 8431.49.9010 8431.49.9015
33312016J3, 6J5, 6J7	Self-propelled continuous ditchers and trenchers (integral units), ladder-type digging element	8429.59.5020	8429.59.5020
33312016JJ	Self-propelled continuous ditchers and trenchers (integral units), wheel-type digging element	8429.59.5040	8429.59.5040
nt. Part.			

pt. Part.

1/Source: 2002 edition, Harmonized System-based Schedule B, Statistical Classification of

Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2002).

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.