

Farm Machinery and Lawn and Garden Equipment: 2006

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SUMMARY OF FINDINGS

During 2006, factory shipments of farm machinery and equipment, including parts and attachments, produced by original equipment manufacturers (OEM), totaled \$16,179.3 million, a 8-percent decrease from the 2005 shipments of \$17,582.9 million. Shipments of farm dairy machines, sprayers, dusters, elevators, farm blowers,

and parts totaled \$1,221 million, a decrease of 5 percent, from the 2005 total of \$1,288 million. The value of shipments for planting, seeding, fertilizing machinery, and parts are decreased slightly to \$1,210 million in 2006, down 4 percent, from the 2005 value of \$1,266 million. The value of shipments for harvesting machinery and parts decreased 12 percent, from \$3,526 million in 2005 to \$3,104 million in 2006. Haying machinery and parts increased 1 percent, from \$1,301 million in 2005 to \$1,312 million in 2006.

The value of shipments for commercial turf and ground equipment, including parts, was \$2,163 million in 2006, a 8-percent decrease from the \$2,349 million reported for 2005.

The value of shipments for consumer lawn, garden, and snow equipment, including parts and attachments, was \$6,426 million in 2006, a 10-percent decrease over the \$7,109 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 Karen Baum, 301-763-7693.

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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Table 1. Value of Shipments of Farm Machinery and Lawn and Garden Equipment by
 Type of Equipment: 2002 to 2006
 [Value in millions of dollars]

Product description	2006	2005	2004	2003	2002
Farm dairy machines, sprayers, dusters, elevators, and farm blowers 1/.....	1,221	r/ 1,288	1,098	807	742
Planting, seeding, and fertilizing machinery 1/.....	1,210	r/ 1,266	1,119	1,299	851
Harvesting machinery 1/.....	3,104	r/ 3,526	3,522	1,878	1,625
Haying machinery 1/.....	1,312	r/ 1,301	1,303	1,339	1,172
Plows, harrows, rollers, pulverizers, cultivators, and weeders 1/.....	(D)	(D)	638	458	426
Commercial turf and grounds care equipment 2/.....	2,163	2,349	2,092	1,836	1,697
Consumer nonriding lawn, garden, and snow equipment 3/.....	2,934	3,270	3,125	3,175	2,609
Consumer riding lawn, garden, and snow equipment 3/.....	3,492	r/ 3,839	3,875	3,801	3,330

r/Revised by 5 percent or more from previously published data.

1/A "Parts" category and a 7-digit product class total from Table 2 have been summed to derive the product group totals.

2/The 7-digit product class total from Table 2 already includes the "Parts and attachments" from this product group.

3/The "Part and attachments" categories for lawn and garden equipment have been added to the 7-digit product class total from Table 2.

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
333111	Farm machinery and equipment, including parts and attachments.....	(NA)	(X)	16,179,338	(X)	r/ 17,582,873
3331111	Wheel tractors (excluding contractors' off-highway wheel tractors, garden tractors, turf tractors, and motor tillers) and attachments.....	(NA)	(X)	(D)	(X)	(D)
3331111102	Wheel tractors, farm-type (PTO hp).....	6	(X)	(D)	(X)	(D)
3331111111	Attachments for wheel tractors, farm-type.....	12	(X)	a/ 97,197	(X)	a/ 90,608
333111C116	Parts for wheel tractors, farm-type.....	12	(X)	(D)	(X)	(D)
3331113	Farm dairy machines, sprayers, dusters, elevators, and farm blowers.....	(NA)	(X)	1,060,754	(X)	r/ 1,136,949
3331113 pt.	Farm dairy machines and equipment.....	15	(X)	142,727	(X)	143,484
	Mechanical installations:					
3331113101	Milking machines, complete, suspended and floor-type bucket, single and double units.....	5	c/ 375	c/ 1,019	(D)	c/ 1,423
3331113104	Pipeline milking units, complete, including claws, shells, inflations, air tubes, with or without pulsator.....	5	(D)	(D)	(D)	(D)
3331113106	Other farm dairy machines and equipment.....	11	12,728	58,147	12,864	60,714
3331113108	Attachments for farm dairy machines and equipment.....	3	(X)	(D)	(X)	(D)
333111C221	Parts for farm dairy machines and equipment, replacement units only.....	7	(X)	35,644	(X)	34,157
3331113 pt.	Sprayers and dusters.....	(NA)	(X)	a/ 872,341	(X)	r/ 946,351
	Power sprayers, field and row crop types only:					
3331113116	Self-propelled.....	11	4,285	552,219	r/ 5,506	r/ 670,804
3331113121	Tractor mounted.....	18	6,341	46,207	b/ 5,371	b/ 33,045
	Other than tractor mounted:					
3331113124	Power take-off driven, piston pump type.....	6	c/ 431	a/ 2,573	c/ 373	a/ 2,236
3331113128	Nonpiston pump type.....	13	a/ 1,867	a/ 14,649	a/r/ 1,693	a/r/ 14,209
3331113132	Other power sprayers, over 4 g.p.m.	3	(X)	(D)	(X)	(D)
	Power sprayers, other than row crop and field types, over 4 g.p.m.:					
3331113136	Power take-off driven.....	5	b/ 367	a/ 3,449	a/r/ 337	a/r/ 3,015
3331113141	Engine-driven.....	11	a/ 1,177	a/ 6,432	b/ 1,620	a/ 6,176
3331113144	Air carried type power sprayers (field, row crop, and orchard types).....	3	c/ 961	b/ 9,892	c/r/ 667	b/r/ 6,913
3331113148	Foggers and mist sprayers portable.....	3	(D)	(D)	(D)	(D)
3331113152	Hand-pulled and garden-type, 4 g.p.m. and under.....	10	291,440	36,555	b/ 206,827	c/ 24,348
	Sprayers, agricultural hand:					
3331113156	Under 1 gallon.....	3	b/ 967,696	b/ 4,032	816,800	3,497
	1 gallon and over:					
3331113161	Compressed air or gas.....	6	b/ 9,795,681	b/ 126,575	a/ 9,283,935	a/ 122,212
3331113164	Other, including knapsack, hose end and flame sprayers and sprayer pumps.....	7	(D)	19,950	(D)	19,014
3331113168	Dusters, power, hand, all types.....	6	a/ 59,314	a/ 532	54,755	a/ 600
3331113172	All other sprayers.....	5	(X)	(D)	(X)	r/ 471
3331113176	Attachments for sprayers and dusters.....	14	(X)	27,682	(X)	31,299
333111C223	Parts for sprayers and dusters, replacement units only.....	29	(X)	121,891	(X)	114,044
	Farm elevators and blowers	(NA)	(X)	b/ 45,686	(X)	b/ 47,114
3339227 pt.	Farm elevators.....	(NA)	(X)	42,014	(X)	42,274
	Farm elevators, portable:					
3339227253	Single and double chain.....	9	(D)	c/ 8,458	(D)	c/ 6,978
3339227255	Auger type.....	8	c/ 6,314	b/ 23,267	c/ 7,307	a/ 24,754
3339227257	Other farm portable and stationary augers and elevators.....	7	(D)	b/ 10,289	(D)	b/ 10,542
3331113 pt.	Farm blowers.....	(NA)	(X)	3,533	(X)	4,082
3331113192	Other farm blowers, including forage blowers, combination grain and forage blowers.....	6	a/ 788	a/ 3,303	a/r/ 796	a/r/ 3,188
3331113194	Attachments for farm blowers.....	4	(X)	230	(X)	r/ 894
333111C225	Parts for farm blowers.....	6	(X)	2,447	(X)	2,872

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006			2005		
			Quantity	Value	Quantity	Value		
3331117	Planting, seeding, and fertilizing machinery.....	(NA)	(X)	1,077,393	(X)	r/	1,110,057	
3331117101	Corn planters, corn and cotton planters, and lister plant pull-type and mounted (total rows mounted).....	6	(D)	(D)	(D)		(D)	
3331117108	Grain drills (fixed frame), all types.....	11	3,549	91,233	3,641		86,814	
3331117111	Transplanters (pull-type or mounted) and broadcast seeders (end-gate, mounted and drawn).....	5	b/ 5,749	a/ 4,107	b/ 5,292	a/	3,809	
	Fertilizer distributors (pull-type or mounted):							
3331117118	Dry, including lime spreaders.....	26	c/ 10,398	b/ 56,543	c/r/ 9,265	c/r/	54,832	
3331117121	Liquid and anhydrous ammonia.....	15	a/ 5,651	26,730	a/ 5,385		27,586	
3331117128	Manure spreaders, rear discharge.....	15	6,987	53,662	r/ 7,194	r/	48,066	
3331117131	Manure spreaders, side discharge.....	3	1,540	29,614	1,978		36,624	
3331117138	Manure pumps, liquid.....	7	(D)	(D)	(D)		(D)	
3331117141	Front and rear tractor mounted loaders (farm-type), manure and general utility (except beet and sugar cane loaders)	13	b/ 52,057	143,261	b/r/ 61,420	r/	167,674	
3331117148	Row crop unit planters (quantity in rows).....	11	(D)	c/ 62,074	(D)		59,815	
3331117151	Other planting, seeding, and fertilizing machinery.....	26	a/ 22,215	c/ 509,746	a/ 14,972	r/	528,429	
3331117158	Attachments for planting, seeding, and fertilizing machinery.....	22	(X)	42,906	(X)	r/	37,347	
333111C229	Parts for planting, seeding, and fertilizing machinery, replacement units only.....	59	(X)	b/ 132,620	(X)	r/	156,025	
3331119	Harvesting machinery.....	(NA)	(X)	2,683,366	(X)	r/	3,035,880	
3331119101	Combines (harvester-threshers), grain-types only (self-propelled and pull-type).....	9	9,654	1,787,185	r/ 11,809	r/	2,057,808	
3331119111	Small grain header for combines, all sizes.....	6	(D)	(D)	(D)		(D)	
3331119121	Corn heads, all sizes.....	7	(D)	(D)	(D)		(D)	
3331119131	Other grain-type combines.....	2	(D)	(D)	(D)		(D)	
	Field forage harvesters:							
3331119141	Shear bar, self-propelled type and pull-type (basic machines).....	3	(D)	(D)	(D)		(D)	
3331119151	Attachments for shear bar type forage harvester.....	1	(X)	(D)	(X)		(D)	
3331119161	Flail-type (horizontal knives or vertical free-swinging knives or hammers), including discharge spouts.....	4	102	1,433	152		1,984	
3331119171	Other harvesting machinery, including potato diggers, cane harvesting equipment, and picker-shellers.....	40	a/ 4,662	a/ 543,077	5,778	r/	549,125	
3331119181	Attachments for harvesting machinery, including platform and seeder, reel, straw spreaders, load levelers, weed stripper, grate unit, knife grinders, and stalk walkers.....	21	(X)	107,168	(X)	r/	115,082	
333111C22A	Parts for harvesting machinery, replacement units only.....	44	(X)	420,643	(X)	r/	490,339	
333111A	Haying machinery.....	(NA)	(X)	b/ 1,147,555	(X)	r/	1,188,708	
333111A101	Mowers, cutter bar type, including drum and disk.....	8	(D)	(D)	(D)		(D)	
333111A111	Mower-conditioners and windrowers with conditioner auger and draper-type (pull-type and self-propelled).....	9	b/ 20,715	b/ 397,533	22,916	r/	414,278	
333111A121	Rakes, side delivery, cylinder type, and finger wheel type.....	10	(D)	(D)	(D)		(D)	
333111A131	Hay balers, hay stackers, (field type), hay bale loaders, bale throwing attachments	10	b/ 22,909	b/ 339,631	23,578	r/	343,028	
333111A141	Other haying machinery.....	20	a/ 24,760	c/ 100,980	21,201	r/	91,450	
333111A151	Other attachments for haying machinery (stripper, bale chute and knife attachments).....	11	(X)	(D)	(X)		(D)	
333111C22C	Parts for haying machinery, replacement units only.....	24	(X)	b/ 164,087	(X)	r/	112,348	
333111E	Plows, harrows, rollers, pulverizers, cultivators, and weeders.....	(NA)	(X)	(D)	(X)		(D)	
333111E pt.	Plows (primary tillage equipment).....	(NA)	(X)	(D)	(X)		(D)	
333111E101	Subsoilers, deep tillage.....	25	2,637	31,744	2,928		34,749	
333111E109	Terracing and ditching plows.....	11	b/ 724	a/ 2,388	b/ 578	a/	1,786	

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Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
	Chisel plows, deep tillage (chisel or sweep type):					
333111E111	Pull-type.....	11	818	18,310	1,261	26,489
333111E119	Mounted.....	10	(D)	(D)	(D)	(D)
333111E121	Other plows (excluding snow plows).....	12	(D)	(D)	(D)	(D)
333111E159	Middlebusters and disc bedders.....	15	c/ 2,745	b/ 3,608	b/ 3,245	a/ 4,716
333111E131	Attachments for plows (coulters, jointers, root cutters subsoilers, fertilizer distributors, etc.), excluding lister planting attachments.....	19	(X)	13,853	(X)	15,771
333111E139	Plowshares (quantity in thousands of pounds).....	6	c/ 11,645	c/ 2,299	c/ 12,542	b/ 2,557
333111C22E	Parts for plows (excluding plowshares, replacement units only).....	20	(X)	36,880	(X)	43,654
333111E pt.	Harrows, rollers, pulverizers and similar equipment (secondary tillage).....	(NA)	(X)	258,166	(X)	310,159
333111E141	Spike-tooth harrow sections and spring-tooth and tine-tooth harrow sections.....	16	(D)	(D)	(D)	(D)
333111E149	Disc harrows, single, tandem, and offset.....	23	b/ 15,608	81,864	a/r/ 15,699	110,709
333111E151	Combination tillage equipment, roller/harrows, disc or coulters/field cultivators, disc or coulters/spring tooth.....	20	b/ 4,430	45,832	b/ 5,478	r/ 47,506
333111E158	Blade terracers or scrapers (farm-size).....	32	a/ 38,006	a/ 28,726	a/r/ 33,810	a/r/ 24,836
333111E161	Land levelers.....	15	4,236	50,735	4,730	54,654
333111E169	Other harrows, rollers, pulverizers, and similar equipment.....	26	8,874	32,034	r/ 11,023	49,632
333111E171	Attachments for harrows, rollers, pulverizers, and similar equipment.....	16	(X)	b/ (D)	(X)	(D)
333111C22G	Parts for harrows, rollers, pulverizers, and similar equipment, replacement units only.....	36	(X)	44,236	(X)	57,342
333111E pt.	Cultivators and weeders.....	(NA)	(X)	(D)	(X)	(D)
333111E179	Corn and cotton type cultivators, shank and sweep type (front and rear mounted).....	11	(D)	(D)	(D)	(D)
333111E181	Rotary cultivators, ground and power driven.....	5	(D)	(D)	(D)	(D)
333111E189	Field cultivators.....	15	b/ 3,137	40,200	b/ 5,660	73,045
333111E191	Other cultivators and weeders, including tool bars (basic units).....	17	b/ 3,257	6,702	a/ 3,514	a/ 7,069
333111E199	Attachments for cultivators and weeders (front mounting frame, disc weeders, rear section, and drawbars).....	18	(X)	c/ 30,904	(X)	a/ 42,294
333111C22J	Parts for cultivators and weeders, replacement units only.....	24	(X)	a/ 29,968	(X)	38,961
333111G	All other farm machinery and equipment (excluding parts).....	(NA)	(X)	2,246,696	(X)	2,124,169
333111G pt.	Stalk shredders and cutters or rotary mowers (PTO).....	34	(X)	a/ 238,711	(X)	a/r/ 241,095
333111G102	Flail type (without spout).....	11	a/ 2,233	a/ 15,993	a/ 2,450	a/ 18,596
333111G104	Horizontal blade type:					
333111G104	66 inches cutting width and under.....	20	c/ 78,153	b/ 49,392	b/ 78,287	b/ 49,292
333111G106	Over 66 inches up to 100 inches cutting width.....	19	b/ 44,583	a/ 66,655	a/ 53,948	a/ 81,555
333111G108	Over 100 inches cutting width.....	15	11,903	106,671	15,641	127,342
333111C22L	Parts for stalk shredders, and cutters or rotary mowers (PTO), replacement units only.....	27	(X)	46,018	(X)	r/ 49,484
333111G pt.	Machines for preparing crops for market or for use.....	(NA)	(X)	a/ 261,770	(X)	a/ 253,717
333111G112	Feed grinders and crushers, power.....	11	(D)	(D)	(D)	(D)
333111G114	Feed mixers, farm-size, stationary and portable.....	13	b/ 2,706	b/ 74,498	b/ 2,931	b/ 76,832
333111G116	Combination grinder-mixers.....	3	(D)	(D)	(D)	(D)
333111G118	Dryers (grain, hay, and seed):					
333111G118	Heated air crop dryers.....	13	b/ 3,661	46,139	b/ 4,975	53,370
333111G122	Crop drying fans (over 15,000 c.f.m. at approximately 1-inch pressure).....	6	6,196	5,410	5,974	5,598
333111G125	Other machines for preparing crops for market or for use (including cotton ginning machinery).....	29	13,237	83,813	a/ 11,294	a/r/ 70,441
333111G126	Attachments for machines for preparing crops for market or for use.....	11	(X)	a/ 3,583	(X)	5,931

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
333111C22N	Parts for machines for preparing crops for market or for use, replacement units only.....	33	(X)	62,350	(X)	a/ 44,179
333111G pt.	Farm poultry equipment.....	(NA)	(X)	a/ 306,453	(X)	339,127
333111G128	Incubators, quantity represents egg capacity in thousands.....	6	a/ 463,382	c/ 32,550	972,881	b/ 37,709
333111G132	Brooders, floor and hanging (gas, electric, oil, coal, wood, and battery).....	11	(D)	(D)	(D)	a/ 35,487
333111G134	Nests and cages.....	6	(D)	(D)	(D)	41,394
333111G136	Poultry feeders (trough, hanging, and mechanical) and waterers (excluding turkey feeders and waterers).....	12	c/ 16,082,792	89,414	c/ 16,812,213	96,372
333111G138	Other farm poultry equipment, including turkey waterers, mechanized egg graders, and egg washers.....	17	(D)	123,249	(D)	124,232
333111G142	Attachments for farm poultry equipment.....	10	(X)	7,491	(X)	8,573
333111C22P	Parts for farm poultry equipment, replacement units only.....	14	(X)	14,929	(X)	16,825
333111G pt.	Hog equipment.....	(NA)	(X)	a/ 178,282	(X)	126,001
333111G144	Feeding equipment.....	22	b/ 304,656	b/ 60,701	a/ 144,221	34,775
333111G146	Handling equipment.....	11	(D)	57,072	(D)	a/ 46,785
333111G148	Watering equipment.....	16	200,057	2,856	258,674	3,322
333111G152	Other hog equipment.....	19	694,519	a/ 55,849	a/ 573,644	a/ 40,798
333111G154	Attachments for hog equipment.....	11	(X)	1,804	(X)	1,668
333111C22T	Parts for hog equipment, replacement units only.....	14	(X)	(D)	(X)	(D)
333111G pt.	Other barn and barnyard equipment.....	(NA)	(X)	a/ 273,547	(X)	244,040
333111G156	Silo and grain bin unloaders, forage and grain, including sealed storage unloaders (farm-type).....	11	a/ 2,019	6,331	a/ 2,473	8,716
	Cattle and dairy barn equipment:					
333111G158	Feeding equipment.....	30	a/ 89,076	a/ 50,989	87,947	50,324
333111G162	Handling equipment.....	30	4,078,042	a/ 100,234	r/ 3,579,510	a/ 90,407
333111G164	Water equipment.....	21	a/ 342,898	a/ 39,951	370,325	37,606
333111G166	Other barn and barnyard equipment.....	30	c/ 111,817	b/ 39,592	120,523	a/ 30,959
333111G168	Attachments for barn and barnyard equipment.....	17	(X)	c/ 36,450	(X)	26,068
333111C22U	Parts for barn and barnyard equipment, replacement units only.....	22	(X)	a/ 15,848	(X)	11,492
333111G pt.	Farm wagons, and other farm transportation equipment.....	(NA)	(X)	a/ 154,613	(X)	161,483
333111G172	Wagons (chassis only) and trailer gears, excluding motor trucks, 4-wheel.....	22	b/ 14,502	b/ 33,210	15,405	34,544
	Boxes and racks for mounting on wagons and trailer gears:					
333111G174	Manual unloading or dump.....	11	(D)	(D)	(D)	(D)
333111G176	Gravity unloading, grain-type only.....	8	5,301	11,331	5,351	12,433
333111G178	Power unloading.....	10	2,431	35,598	2,988	40,797
333111G182	Boxes with integral running gear, grain- and forage-types.....	10	2,109	28,841	2,725	35,588
333111G184	Other farm transportation equipment.....	19	b/ 4,459	a/ 34,216	r/ 4,236	r/ 27,687
333111G186	Attachments for farm transportation equipment.....	9	(X)	(D)	(X)	(D)
333111C232	Parts for farm transportation equipment, including operator cabs for farm tractors.....	27	(X)	b/ 89,082	(X)	b/ 99,350
333111G pt.	Irrigation systems.....	(NA)	(X)	833,320	(X)	758,706
333111G188	Self-propelled irrigation systems, center-pivot (quantity is in ten-tower equivalents).....	7	(D)	(D)	(D)	(D)
333111G192	All other systems using 100-foot flexible hose feeder line and over.....	9	(D)	(D)	(D)	(D)
333111C22V	Parts for irrigation systems, replacement units only.....	8	(X)	b/ 89,750	(X)	b/ 84,275
333111J	Commercial turf and grounds care equipment, including parts and attachments.....	(NA)	(X)	2,162,610	(X)	2,348,847
333111J pt.	Commercial turf and grounds mowing equipment.....	(NA)	(X)	1,772,982	(X)	1,967,568
333111J101	Powered nonriding mowers.....	13	79,153	134,720	76,099	133,073

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 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
333111J106	Riding reel-type turf mowers, including greens mowers.....	4	(D)	(D)	(D)	(D)
333111J111	Riding rotary turf mowers.....	21	a/ 168,700	1,030,313	195,618	1,181,758
333111J116	Gang rotary cutting units, reel and rotary, individual sections.....	7	(D)	(D)	(D)	(D)
333111J123	Other mowing equipment, including flail mower, cutting units, including gang.....	7	11,802	41,177	14,999	r/ 45,872
333111J131	Parts for commercial turf and grounds mowing equipment.....	35	(X)	186,453	(X)	220,129
333111J136	Attachments for commercial turf and grounds mowing equipment.....	18	(X)	57,436	(X)	55,084
333111J pt.	Other commercial turf and grounds care equipment.....	(NA)	(X)	a/ 389,628	(X)	a/r/ 381,279
333111J146	Seeders, spreaders, and top dresser attachments....	11	(D)	a/ 31,076	(D)	a/ 24,945
333111J151	Aerators, spikers, and pluggers.....	11	b/ 20,329	a/ 41,063	b/ 16,842	b/ 45,090
333111J156	Dethatchers.....	11	(D)	a/ 11,580	(D)	12,297
333111J161	Power brooms, blowers, vacuums, and sweepers....	11	(D)	26,531	11,295	19,307
333111J175	Other commercial turf and grounds care equipment, including trap rakes, transport trailers, turf tractors and trucks, sod cutters and sod harvesters, and irrigation systems (excluding agricultural and residential).....	24	142,803	193,656	187,965	a/ 208,167
333111J176	Parts for other commercial turf and grounds care equipment.....	22	(X)	a/ 34,403	(X)	r/ 40,229
333111J181	Attachments for other commercial turf and grounds care equipment.....	14	(X)	a/ 51,319	(X)	a/r/ 51,656
333112	Lawn and garden equipment.....	(NA)	(X)	6,426,004	(X)	7,108,999
3331121 pt.	Consumer nonriding lawn, garden, and snow equipment.....	(NA)	(X)	2,732,463	(X)	a/ 3,056,675
3331121104	Lawnmowers: Push-type: reel (powered and nonpowered) rotary-gas powered.....	12	3,962,094	597,531	b/ 4,696,300	b/ 639,095
3331121106	Rotary, self-propelled, gas-powered.....	15	2,288,100	551,739	2,399,610	a/ 580,523
3331121121	Electric, all types, including battery-powered.....	3	(D)	(D)	(D)	(D)
3331121126	Rotary garden motor tillers.....	12	439,562	119,742	542,341	a/ 150,658
3331121131	2-wheel tractors walking type (excluding rotary tillers).....	4	(D)	(D)	(D)	(D)
3331121136	Snow throwers (snow blowers) (excluding attachment-type): Single stage.....	7	433,565	157,901	532,056	189,919
3331121141	Dual stage.....	7	446,163	254,365	b/ 663,131	b/ 380,885
3331121146	Powered lawn edgers/trimmers: Fixed blade.....	11	a/ 1,149,403	a/ 166,737	1,070,666	164,071
3331121151	Other than fixed blades.....	13	a/ 6,281,588	a/ 475,936	6,232,219	496,495
3331121156	Shredders and shredder-grinders.....	7	a/ 141,052	a/ 44,647	132,659	r/ 41,328
3331121161	Yard vacuums and blowers.....	11	a/ 2,499,519	b/ 242,087	2,798,091	267,136
3331121166	Other consumer nonriding lawn, garden, and snow equipment.....	21	b/ 756,548	b/ 106,052	682,608	108,033
3331123 pt.	Consumer riding lawn, garden, and snow equipment.....	(NA)	(X)	2,994,139	(X)	r/ 3,279,425
3331123108	Lawn tractors and riding mowers: Front engine.....	7	1,541,267	1,724,632	(D)	(D)
3331123125	Rear engine.....	12	a/ 204,083	a/ 386,531	(D)	(D)
3331123141	Garden tractors: Under 16.0 hp (under 12.0 kW).....	2	(D)	(D)	a/ 885	a/ 3,217
3331123155	16.0 hp and over (12.0 kW and over).....	5	(D)	(D)	(D)	(D)
3331123171	Other consumer riding lawn, garden, and snow equipment.....	5	c/ 47,081	179,654	c/ 46,320	148,198
3331127 pt.	Parts and attachments for consumer lawn, garden, and snow equipment.....	(NA)	(X)	a/ 699,402	(X)	a/r/ 772,899
3331127101	Nonriding: Parts.....	33	(X)	b/ 153,309	(X)	r/ 163,601
3331127111	Attachments.....	12	(X)	b/ 48,599	(X)	49,709

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2006		2005	
			Quantity	Value	Quantity	Value
Riding:						
Parts:						
3331127121	For tractors and riding mowers.....	16	(X) a/	174,906	(X) a/	240,861
3331127131	For other equipment.....	5	(X)	4,030	(X)	4,013
Attachments:						
3331127141	Rotary mower decks.....	6	(X)	(D)	(X)	67,682
3331127151	Rotary tiller attachments.....	3	(X)	(D)	(X) a/	6,386
3331127161	Blades, dozer.....	8	(X) c/	17,514	(X) a/	21,561
3331127171	Snow throwers.....	3	(X)	(D)	(X) c/	5,174
3331127181	Carts and wagons.....	8	(X) c/	36,836	(X)	40,885
3331127191	All other attachments.....	20	(X) a/	176,616	(X)	173,027

D Withheld to avoid disclosing data for individual companies. NA Not available. 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 the item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of item is estimated.

Table 3. Shipments, Exports, and Imports of Farm Machinery and Equipment: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		Exports of domestic merchandise 1/		Imports for consumption 2/		Apparent consumption	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
2006								
Farm-type wheel tractors 3/.....	(D)	(D)	38,724	1,337,113	167,653	2,396,773	(D)	(D)
Sprayers and dusters (except aerial types) 3/.....	(X)	844,659	(X)	69,762	(X)	25,567	(X)	800,464
Planting machinery and fertilizer distributors, pull-type or mounted 3/.....	(X)	1,034,487	31,176	128,655	209,687	71,480	(X)	977,312
Disc harrows.....	15,608	81,864	1,236	10,513	3,580	2,728	17,952	74,079
Other harrows, rollers, pulverizers, and similar equipment.....	8,874	32,034	3,811	7,314	16,462	8,966	21,525	33,686
Combines.....	9,654	1,787,185	5,300	592,757	919	98,868	5,273	1,293,296
Other harvesting machines.....	4,662	543,077	4,005	81,605	2,434	47,718	3,091	509,190
Field forage harvesters 3/.....	(D)	(D)	781	12,154	1,658	60,711	(D)	(D)
Hay mowers, mower-conditioners and windrowers.....	(D)	(D)	30,807	90,711	46,283	118,404	(D)	(D)
Other haymaking machines.....	24,760	100,980	1,730	50,192	15,481	59,981	38,511	110,769
Balers, including pickup balers.....	22,909	339,631	7,615	137,858	1,957	35,358	17,251	237,131
Other plows.....	(D)	(D)	2,760	13,503	2,413	6,305	(D)	(D)
Cultivators and weeders.....	(X)	(D)	21,311	20,638	267,310	60,711	(X)	(D)
Machinery for preparing animal feed.....	22,605,877	524,466	4,206	50,656	59,741	42,040	22,661,412	515,850
Other machines for preparing crops for market or for use.....	13,237	83,813	2,013	31,859	64,206	10,198	75,430	62,152
Farm poultry incubators and brooders.....	(D)	(D)	13,789	20,301	88,152	7,138	(D)	(D)
Nests and cages (poultry equipment).....	(D)	(D)	100,445	82,719	500,092	35,895	(D)	(D)
Self-propelled irrigation systems, center-pivot.....	(D)	(D)	1,834	58,972	15	34	(D)	(D)
All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over.....	(D)	(D)	(X)	264,566	(X)	63,173	(D)	(D)
Farm wagons and other farm transportation equipment 4/.....	(X)	154,613	(X)	(X)	272,900	20,942	(X)	172,199
Other commercial and turf grounds mowers.....	(D)	(D)	848,554	246,996	1,212,308	220,384	(D)	(D)
Riding turf mowers.....	231,033	1,394,373	21,450	119,333	5,408	7,474	214,991	1,282,514
Snowblowers (snowthrowers).....	879,728	412,266	194,947	134,520	185,676	48,523	870,457	326,269
Powered lawn and hedge trimmers.....	7,430,991	642,673	1,174,256	128,254	2,856,938	200,014	9,113,673	714,433
2005								
Farm-type wheel tractors 3/.....	(D)	(D)	37,763	1,242,818	192,486	2,680,292	(D)	(D)
Sprayers and dusters (except aerial types) 3/.....	(X)	1,042,173	(X)	73,837	(X)	28,958	(X)	997,294
Planting machinery and fertilizer distributors, pull-type or mounted 3/.....	(X)	915,505	27,846	102,980	135,153	99,085	(X)	911,610
Disc harrows.....	23,404	111,632	2,560	8,725	53,206	2,464	74,050	105,371
Other harrows, rollers, pulverizers, and similar equipment.....	r/ 11,023	r/ 49,362	5,138	7,125	18,545	11,292	24,430	53,529
Combines.....	15,811	2,710,488	6,114	634,534	719	57,235	10,416	2,133,189
Other harvesting machines.....	r/ 5,778	r/ 549,125	6,758	143,264	5,110	39,650	4,130	445,511
Field forage harvesters 3/.....	(D)	(D)	752	12,606	1,766	79,901	(D)	(D)
Hay mowers, mower-conditioners and windrowers.....	(D)	(D)	32,375	62,190	48,967	153,213	(D)	(D)
Other haymaking machines.....	r/ 21,201	r/ 91,450	2,039	44,497	18,578	57,891	37,740	104,844
Balers, including pickup balers.....	23,578	343,028	7,977	132,306	4,544	35,468	20,145	246,190
Other plows.....	(D)	(D)	3,585	12,036	3,063	7,828	(D)	(D)
Cultivators and weeders.....	r/ (X)	(D)	24,508	21,587	283,651	66,254	(X)	(D)
Machinery for preparing animal feed.....	(D)	(D)	4,858	44,559	41,514	42,616	(D)	(D)
Other machines for preparing crops for market or for use.....	11,294	70,441	2,437	26,628	55,829	8,390	64,686	52,203

Table 3. Shipments, Exports, and Imports of Farm Machinery and Equipment: 2006 and 2005
 [Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		Exports of domestic merchandise 1/		Imports for consumption 2/		Apparent consumption	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Farm poultry incubators and brooders.....	1,660,103	73,110	69,304	27,177	97,152	4,823	1,687,951	50,756
Nests and cages (poultry equipment).....	2,403,367	41,170	99,324	74,749	563,747	43,643	2,867,790	10,064
Self-propelled irrigation systems, center-pivot.....	21,285	663,630	1,953	50,792	52	314	19,384	613,152
All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over.....	(D)	(D)	(X)	226,963	(X)	51,355	(D)	(D)
Farm wagons and other farm transportation equipment 4/.....	(X)	161,483	(X)	(X)	285,161	20,699	(X)	182,182
Riding turf mowers and flail and gang mowers.....	r/ 268,012	1,557,282	25,526	116,100	4,291	5,295	246,777	1,446,477
Snowblowers (snowthrowers).....	1,195,187	570,804	171,214	110,080	242,769	67,597	1,266,742	528,321
Powered lawn and hedge trimmers.....	7,316,255	663,333	883,413	84,638	2,051,440	157,093	8,484,282	735,788

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

- 1/Source: Census Bureau report, EM 545, U.S. Exports.
- 2/Source: Census Bureau report, IM 145, U.S. Imports for Consumption.
- 3/These figures for manufacturers shipments excludes attachments and parts.
- 4/These figures for manufacturers shipments includes attachments.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 4.

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

Product code	Product description	Export code 1/	Import code 2/
3331111101, 106, 3331123141, 151, 161	Farm-type wheel tractors.....	8701.90.1005 8701.90.1010 8701.90.1015 8701.90.1030 8701.90.1035 8701.90.1040 8701.90.1045 8701.90.1050 8701.90.1055 8701.90.1060 8701.90.1065 8701.90.1070	8701.90.1005 8701.90.1010 8701.90.1015 8701.90.1030 8701.90.1035 8701.90.1040 8701.90.1045 8701.90.1050 8701.90.1055 8701.90.1060 8701.90.1065 8701.90.1070
3331113116, 121, 124, 128, 132, 136, 141, 144, 148, 152, 156, 161, 164, 168, 172	Sprayers and dusters (except aerial types).....	8424.81.1000 8424.81.9030	8424.81.1000 8424.81.9040 8424.81.9090
3331117101, 108, 111, 148	Planting machinery.....	8432.30.0010 8432.30.0090	8432.30.0010 8432.30.0090
3331117118, 121, 128, 131, 138, 141, 151	Fertilizer distributors pull-type or mounted.....	8432.40.0000	8432.40.0000
333111E141, 151, 158, 161, 169	Other harrows, rollers, pulverizers, and similar equipment.....	8432.29.0090	8432.29.0090
333111E149	Disc harrows.....	8432.21.0000	8432.21.0000
3331119101	Combines.....	8433.51.0010 8433.51.0090	8433.51.0010 8433.51.0090
3331119111, 121, 131, 171	Other harvesting machines.....	8433.52.0000 8433.59.0090 8433.53.0000	8433.52.0000 8433.59.0090 8433.53.0000
3331119141, 161	Field forage harvesters.....	8433.59.0010	8433.59.0010

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

Product code	Product description	Export code 1/	Import code 2/
333111A101, 111, 333111G102, 104, 106, 108	Hay mowers, mower-conditioners and windrowers.....	8433.20.0020 8433.20.0040 8433.20.0060	8433.20.0020 8433.20.0040 8433.20.0060
333111A121, 141	Other haymaking machinery.....	8433.30.0000	8433.30.0000
333111A131	Balers, including pickup balers.....	8433.40.0000	8433.40.0000
333111E101, 109, 111, 119, 121, 159	Other plows.....	8432.10.0040 8432.10.0060	8432.10.0040 8432.10.0060
333111E179, 181, 189, 191	Cultivators and weeders.....	8432.29.0040 8432.29.0060 8432.29.0080	8432.29.0040 8432.29.0060 8432.29.0080
333111G112, 114, 116	Machinery for preparing animal feed.....	8436.10.0000	8436.10.0000
333111G124, 118, 122	Other machines for preparing crops for market or for use.....	8419.31.0000 8436.80.0060	8419.31.0000 8436.80.0060
333111G128, 132	Farm poultry incubators and brooders.....	8436.21.0000	8436.21.0000
333111G134	Nests and cages (poultry equipment).....	8436.29.0000 8433.60.0000	8436.29.0000 8433.60.0000
333111G188	Self-propelled irrigation systems, center-pivot.....	8424.81.9010	8424.81.9010
333111G192	All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over.....	8424.81.9020	8424.81.9020
333111G172, 174, 176, 178, 182, 184	Farm wagons and other farm transportation equipment.....	(X)	8716.80.1000
333111J101, 126	Other commercial and turf grounds mowers.....	8433.19.0040 8433.19.0050	8433.19.0040 8433.19.0050
333111J106, 111, 116	Riding turf mowers.....	8433.19.0010 8433.19.0030	8433.19.0010 8433.19.0030

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

Product code	Product description	Export code 1/	Import code 2/
333111J121	Flail and gang mowers.....	8433.19.0020	8433.19.0020
3331121136, 141	Snowblowers (snowthrowers).....	8430.20.0060	8430.20.0060
3331121146, 151	Powered lawn and hedge trimmers.....	8467.89.5030	8467.89.5030

X Not applicable.

1/Source: 2006 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, (2006).

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 farm machinery and equipment have been collected by the Census Bureau since 1920; data on lawn and garden equipment since 1978. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.