

Farm Machinery and Lawn and Garden Equipment: 2004

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SUMMARY OF FINDINGS

During 2004, factory shipments of farm machinery and equipment, including parts and attachments, produced by original equipment manufacturers (OEM), totaled \$16,235.2 million, a 23-percent increase from the 2003 shipments of \$13,124.4 million. Shipments of farm dairy machines, sprayers, dusters, elevators, farm blowers,

and parts totaled \$987.3 million, an increase of 22 percent, from the 2003 total of \$807.1 million. The value of shipments for planting, seeding, and fertilizing machinery, and parts are relatively the same, from \$1,298.9 million in 2003 to \$1,301.4 million in 2004. The value of shipments for harvesting machinery and parts increased 52 percent, from \$1,878.2 million in 2003 to \$2,847.2 million in 2004. Haying machinery and parts decreased 14 percent, from \$1,338.8 million in 2003 to \$1,863.3 million in 2004.

The value of shipments for commercial turf and grounds care equipment, including parts, was \$2,083.6 million in 2004, a 13-percent increase from the \$1,863.3 million reported for 2003.

The value of shipments for consumer lawn, garden, and snow equipment, including parts and attachments, was \$7,447.7 million in 2004, a 7-percent increase over the \$6,975.6 million in 2003.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Investment Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Vance Davis, 301-763-4790

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Table 1. Value of Shipments of Farm Machinery and Lawn and Garden Equipment by Type of Equipment: 1999 to 2004
 [Value in millions of dollars]

Product description	2004	2003	2002	2001	2000	1999
Farm dairy machines, sprayers, dusters, elevators, and farm blowers 1/.....	987	807	742	877	817	994
Planting, seeding, and fertilizing machinery 1/.....	1,301	1,299	851	898	752	1,091
Harvesting machinery 1/.....	2,847	1,878	1,625	1,766	1,553	3,096
Haying machinery 1/.....	1,153	1,339	1,172	705	639	848
Plows, harrows, rollers, pulverizers, cultivators, and weeders 1/.....	632	458	426	501	465	631
Commercial turf and grounds care equipment 2/.....	2,084	1,836	1,697	2,239	1,657	1,362
Consumer nonriding lawn, garden, and snow equipment 3/.....	3,492	3,175	2,609	2,767	3,083	2,979
Consumer riding lawn, garden, and snow equipment 3/.....	3,956	3,801	3,330	3,446	3,389	3,277

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: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
333111	Farm machinery and equipment, including parts and attachments.....	(NA)	(X)	16,235,180	(X)	13,124,444
3331111	Wheel tractors (except contractors' off-highway wheel tractors, garden tractors, turf tractors, and motor tillers) and attachments.....	(NA)	(X)	(D)	(X)	(D)
3331111101	Wheel tractors, farm-type (PTO hp).....	(NA)	(X)	(D)	(X)	(D)
3331111106	2-wheel drive, including front wheel assist types.....	9	(D)	(D)	(D)	(D)
3331111111	4-wheel drive, including tractors with, equal size tires, front and rear.....	5	(D)	(D)	(D)	(D)
333111C116	Attachments for wheel tractors, farm-type.....	12	(X)	a/ 82,673	(X)	a/ 69,785
333111C116	Parts for wheel tractors, farm-type.....	14	(X)	(D)	(X)	(D)
3331113	Farm dairy machines, sprayers, dusters, elevators, and farm blowers.....	(NA)	(X)	832,593	(X)	698,595
3331113 pt.	Farm dairy machines and equipment.....	14	(X)	120,997	(X)	a/ 100,903
3331113101	Mechanical installations: Milking machines, complete, suspended and floor-type bucket, single and double units.....	5	(D)	(D)	(D)	c/r/ 1,004
3331113104	Pipeline milking units, complete, including claws, shells, inflations, air tubes, with or without pulsator.....	5	(D)	(D)	(D)	(D)
	Other farm dairy machines and equipment.....	12	(X)	54,641	(X)	a/ 45,489
	Attachments for farm dairy machines and equipment.....	3	(X)	(D)	(X)	(D)
	Parts for farm dairy machines and equipment, replacement units only.....	7	(X)	(D)	(X)	a/ 35,996
3331113 pt.	Sprayers and dusters.....	(NA)	(X)	674,642	(X)	a/ 567,365
	Power sprayers, field and row crop types only:					
3331113116	Self-propelled.....	12		3,644		3,036
3331113121	Tractor mounted.....	20	b/ 4,555	a/ 23,013	b/r/ 3,963	b/ 339,360
	Other than tractor mounted:					
3331113124	Power take-off driven, piston pump type.....	6	c/ 381	a/ 2,240	b/ 537	a/ 2,158
3331113128	Nonpiston pump type.....	11	b/ 1,717	b/ 7,927	b/ 1,102	a/r/ 6,072
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.....	6	c/ 335	c/ 2,469	b/r/ 303	b/ 2,191
3331113141	Engine-driven.....	14	a/ 1,187	b/ 4,696	b/r/ 1,123	b/r/ 5,202
3331113144	Air carried type power sprayers (field, row crop, and orchard types).....	5	c/ 1,262	b/ 5,360	c/ 590	c/ 4,104
3331113148	Foggers and mist sprayers portable.....	4	(D)	(D)	(D)	(D)
3331113152	Hand-pulled and garden-type, 4 g.p.m. and under.....	9	118,738	18,542	(D)	(D)
	Sprayers, agricultural hand:					
3331113156	Under 1 gallon.....	4	785,931	3,608	766,046	3,422
	1 gallon and over:					
3331113161	Compressed air or gas.....	7	10,542,793	121,201	r/ 9,478,347	122,482
3331113164	Other, including knapsack, hose end and flame sprayers and sprayer pumps.....	8	(X)	19,071	(X)	18,470
3331113168	Dusters, power, hand, all types.....	7	(D)	b/ 742	(D)	a/ 631
3331113172	All other sprayers.....	6	(X)	a/ 518	(X)	a/r/ 830
3331113176	Attachments for sprayers and dusters.....	16	(X)	25,650	(X)	15,344
333111C223	Parts for sprayers and dusters, replacement units only.....	28	(X)	114,881	(X)	r/ 69,110
3331113 pt.	Farm elevators and blowers.....	(NA)	(X)	b/ 36,954	(X)	c/ 30,327
	Farm elevators, portable:					
3331113181	Single and double chain.....	7	(D)	c/ 8,273	c/ 3,566	c/ 6,823
3331113188	Auger type.....	5	c/ 5,274	b/ 13,646	c/ 5,925	b/ 11,394
	Other farm portable and stationary augers and elevators.....	7	(X)	b/ 11,424	(X)	b/ 9,456
3331113192	Other farm blowers, including forage blowers, combination grain and forage blowers.....	6	(X)	2,746	(X)	b/r/ 1,954
	Attachments for farm elevators and blowers.....	3	(X)	36,954	(X)	r/ 30,327
	Parts for farm elevators and for grain and forage blowers, replacement units only.....	5	(X)	1,442	(X)	r/ 970

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004			2003		
			Quantity	Value	Quantity	Value		
3331117	Planting, seeding, and fertilizing machinery.....	(NA)	(X)	1,146,626	(X)		859,336	
3331117101	Corn planters, corn and cotton planters, and lister plant pull-type and mounted (total rows mounted).....	7	(D)	(D)	(D)		(D)	
3331117108	Grain drills (fixed frame), all types.....	13	4,155	99,264	16,927		88,935	
3331117111	Transplanters (pull-type or mounted) and broadcast seeders (end-gate, mounted and drawn).....	6	a/ 6,922	4,129	a/ 7,088	r/	3,902	
	Fertilizer distributors (pull-type or mounted):							
3331117118	Dry, including lime spreaders.....	25	c/ 9,470	b/ 47,980	c/ 8,695	c/	40,605	
3331117121	Liquid and anhydrous ammonia.....	17	a/ 5,377	24,989	a/ 5,149		19,250	
3331117128	Manure spreaders, rear discharge.....	15	7,697	41,569	5,928		33,277	
3331117131	Manure spreaders, side discharge.....	3	a/ 2,161	a/ 31,661	r/ 1,559	r/	21,180	
3331117138	Manure pumps, liquid.....	7	b/ 662	a/ 2,880	b/ 585	a/	2,691	
3331117141	Front and rear tractor mounted loaders (farm- type), manure and general utility (except beet and sugar cane loaders)	13	a/ 70,184	167,779	a/ 55,439		126,838	
3331117148	Row crop unit planters (quantity in rows).....	14	(D)	56,460	(D)		45,901	
3331117151	Other planting, seeding, and fertilizing machinery.....	25	(X) a/	354,834	(X) a/		256,109	
3331117158	Attachments for planting, seeding, and fertilizing machinery.....	23	(X)	46,114	(X)		41,145	
333111C229	Parts for planting, seeding, and fertilizing machinery, replacement units only.....	66	(X)	135,074	(X)		94,727	
3331119	Harvesting machinery.....	(NA)	(X)	2,637,222	(X) a/		1,700,299	
3331119101	Combines (harvester-threshers), grain-types only (self-propelled and pull-type).....	11	10,457	1,635,214	r/ 8,283	r/	1,117,319	
3331119111	Small grain header for combines, all sizes.....	8	12,201	235,094	8,471		129,137	
3331119121	Corn heads, all sizes.....	7	3,876	132,050	2,357		70,231	
3331119131	Other grain-type combines.....	2	(X)	(D)	(X)		(D)	
	Field forage harvesters:							
3331119141	Shear bar, self-propelled type and pull-type (basic machines).....	3	971	30,602	801		20,074	
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	150	1,828	a/ 113	b/	1,355	
3331119171	Other harvesting machinery, including potato diggers, cane harvesting equipment, and picker-shellers.....	44	(X) a/	456,282	(X)		278,509	
3331119181	Attachments for harvesting machinery, including platform and seeder, reel, straw spreaders, load levelers, weed stripper, grate unit, knife grinders, and stalk walkers.....	24	(X)	137,153	(X)		75,983	
333111C22A	Parts for harvesting machinery, replacement units only.....	49	(X)	210,002	(X)		177,919	
333111A	Haying machinery.....	(NA)	(X) a/	1,030,604	(X) b/r/		1,166,965	
333111A101	Mowers, cutter bar type, including drum and disk.....	9	(D)	(D)	(D)		(D)	
333111A111	Mower-conditioners and windrowers with conditioner auger and draper-type (pull-type and self-propelled).....	9	16,901	266,962	19,457		313,337	
333111A121	Rakes, side delivery, cylinder type, and finger wheel type.....	11	8,131	38,494	9,005		39,766	
333111A131	Hay balers, hay stackers, (field type), hay bale loaders, bale throwing attachments	13	19,851	385,876	21,128		410,481	
333111A141	Other haying machinery.....	18	(X) b/	48,911	(X) b/r/		30,569	
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)	122,089	(X)		171,881	
333111E	Plows, harrows, rollers, pulverizers, cultivators, and weeders.....	(NA)	(X)	505,128	(X)		359,865	
	Plows (primary tillage equipment).....	(NA)	(X)	101,033	(X) r/		85,552	
333111E101	Subsoilers, deep tillage.....	23	3,654	38,824	r/ 3,673	r/	32,525	
333111E109	Terracing and ditching plows.....	11	b/ 588	a/ 1,674	b/r/ 437	a/r/	1,296	

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 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004			2003			
			Quantity		Value	Quantity		Value	
	Chisel plows, deep tillage (chisel or sweep type):								
333111E111	Pull-type.....	10	1,399		26,063	r/	1,032	r/	17,225
333111E119	Mounted.....	12	b/ 554	b/	576	a/r/	512	a/r/	446
333111E121	Other plows (except snow plows).....	13	(X)		13,842		(X)	r/	9,073
333111E159	Middlebusters and disc bedders.....	15	b/ 3,134	b/	3,430	b/r/	2,870	a/r/	3,256
333111E131	Attachments for plows (coulters, jointers, root cutters subsoilers, fertilizer distributors, etc.), excluding lister planting attachments.....	22	(X)		14,282		(X)	r/	18,441
333111E139	Plowshares (quantity in thousands of pounds).....	5	a/ 10,310	c/	2,342	a/r/	12,558	b/r/	3,290
333111C22E	Parts for plows (except plowshares, replacement units only).....	18	(X)		36,762		(X)	r/	30,579
333111E pt.	Harrows, rollers, pulverizers and similar equipment (secondary tillage).....	(NA)	(X)	a/	278,041		(X)	a/	186,848
333111E141	Spike-tooth harrow sections and spring-tooth and tine-tooth harrow sections.....	18	c/ 16,108	b/	7,396	a/	15,785		7,153
333111E149	Disc harrows, single, tandem, and offset.....	21	a/ 14,093		116,364	a/	12,579	a/	76,029
333111E151	Combination tillage equipment, roller/harrows, disc or coulters/field cultivators, disc or coulters/spring tooth.....	25	b/ 6,061		48,982	c/	5,201		27,326
333111E158	Blade terracers or scrapers (farm-size).....	35	b/ 47,802	b/	31,591	a/r/	44,199	a/	27,411
333111E161	Land levelers.....	10	4,680		16,565		3,528	a/	9,925
333111E169	Other harrows, rollers, pulverizers, and similar equipment.....	26	(X)		43,611		(X)		27,163
333111E171	Attachments for harrows, rollers, pulverizers, and similar equipment.....	15	(X)	b/	13,532		(X)	c/	11,841
333111C22G	Parts for harrows, rollers, pulverizers, and similar equipment, replacement units only.....	34	(X)		55,176		(X)	r/	41,849
333111E pt.	Cultivators and weeders.....	(NA)	(X)		126,054		(X)	a/r/	87,465
333111E179	Corn and cotton type cultivators, shank and sweep type (front and rear mounted).....	15	c/ 1,001	a/	5,194	c/	864	a/	4,615
333111E181	Rotary cultivators, ground and power driven.....	6	(D)	c/	7,087	c/	3,378	c/r/	6,959
333111E189	Field cultivators.....	15	b/ 5,948		66,380	b/	4,843		45,161
333111E191	Other cultivators and weeders, including tool bars (basic units).....	18	(X)		(D)		(X)		(D)
333111E199	Attachments for cultivators and weeders (front mounting frame, disc weeders, rear section, and drawbars).....	19	(X)		(D)		(X)	b/	26,109
333111C22J	Parts for cultivators and weeders, replacement units only.....	25	(X)		35,045		(X)	a/	26,039
333111G	All other farm machinery and equipment (except parts).....	(NA)	(X)		2,174,768		(X)		2,028,041
333111G pt.	Stalk shredders and cutters or rotary mowers (PTO).....	38	(X)	a/	256,019		(X)	a/	221,098
333111G102	Flail type (without spout).....	12	a/ 2,267	a/	15,600	a/r/	1,961	a/r/	13,439
	Horizontal blade type:								
333111G104	66 inches cutting width and under.....	24	c/ 84,832	b/	52,315	b/	83,614	b/	49,443
333111G106	Over 66 inches up to 100 inches cutting width.....	21	b/ 56,182	a/	76,544	a/	53,817	a/	67,253
333111G108	Over 100 inches cutting width.....	17	a/ 14,349	a/	111,560		11,755		90,963
333111C22L	Parts for stalk shredders, and cutters or rotary mowers (PTO), replacement units only.....	27	(X)	a/	37,773		(X)		32,895
333111G pt.	Machines for preparing crops for market or for use.....	(NA)	(X)		237,373		(X)	r/	221,135
333111G112	Feed grinders and crushers, power.....	13	b/ 1,137		44,121	b/	1,038		42,818
333111G114	Feed mixers, farm-size, stationary and portable.....	14	2,664		63,399		2,333		52,333
333111G116	Combination grinder-mixers.....	3	(D)		(D)		(D)		(D)
333111G117	Cotton ginning machinery.....	(NA)	-		-		-		-
	Dryers (grain, hay, and seed):								
333111G118	Heated air crop dryers.....	15	b/ 5,478	b/	44,717	b/	5,084		38,831
333111G122	Crop drying fans (over 15,000 c.f.m. at approximately 1-inch pressure).....	7	6,158		5,768		6,767		5,669
333111G124	Other machines for preparing crops for market or for use.....	32	(X)		67,515		(X)	r/	70,369
333111G126	Attachments for machines for preparing crops for market or for use.....	12	(X)		7,758		(X)		7,395

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
333111C22N	Parts for machines for preparing crops for market or for use, replacement units only.....	35	(X)	39,486	(X)	37,196
333111G pt.	Farm poultry equipment.....	(NA)	(X)	370,054	(X) r/	303,430
333111G128	Incubators, quantity represents egg capacity in thousands.....	8	c/ 49,528,012 b/	53,803	c/ 44,682,853 b/t/	48,299
333111G132	Brooders, floor and hanging (gas, electric, oil, coal, wood and battery).....	11	(D) a/	37,828	(D) a/r/	39,399
333111G134	Nests and cages.....	8	(D)	51,355	(D) a/r/	31,399
333111G136	Poultry feeders (trough, hanging, and mechanical) and waterers (except turkey feeders and waterers).....	13	c/ 2,914,562	124,485	a/ 2,131,091	64,212
333111G138	Other farm poultry equipment, including turkey waterers, mechanized egg graders, and egg washers.....	18	(X)	94,130	(X)	112,713
333111G142	Attachments for farm poultry equipment.....	10	(X)	8,453	(X)	7,408
333111C22P	Parts for farm poultry equipment, replacement units only.....	14	(X) a/	15,048	(X) a/	13,694
333111G pt.	Hog equipment.....	(NA)	(X)	107,545	(X)	104,262
333111G144	Feeding equipment.....	26	a/ 148,199	42,475	b/ 67,572 a/r/	18,285
333111G146	Handling equipment.....	13	a/ 409,337	33,481	a/ 393,538	25,838
333111G148	Watering equipment.....	15	353,541	4,074	353,910	4,184
333111G152	Other hog equipment.....	21	(X) a/	26,258	(X)	54,937
333111G154	Attachments for hog equipment.....	10	(X)	1,257	(X)	1,018
333111C22T	Parts for hog equipment, replacement units only.....	15	(X)	(D)	(X)	(D)
333111G pt.	Other barn and barnyard equipment.....	(NA)	(X) a/	264,727	(X) a/	348,078
333111G156	Silo and grain bin unloaders, forage and grain, including sealed storage unloaders (farm-type).....	13	a/ 2,705	22,461	(D)	(D)
	Cattle and dairy barn equipment:					
333111G158	Feeding equipment.....	31	99,372 a/	56,235	(D) a/	51,964
333111G162	Handling equipment.....	32	a/ 1,017,207 a/	63,036	a/ 800,957 a/r/	48,841
333111G164	Water equipment.....	22	471,217 b/	50,146	a/ 429,131 b/	41,245
333111G166	Other barn and barnyard equipment.....	34	(X) a/	26,015	(X)	20,935
333111G168	Attachments for barn and barnyard equipment.....	19	(X)	46,834	(X) r/	39,779
333111C22U	Parts for barn and barnyard equipment, replacement units only.....	24	(X)	11,304	(X)	10,439
333111G pt.	Farm wagons, and other farm transportation equipment.....	(NA)	(X)	152,067	(X) a/	128,466
333111G172	Wagons (chassis only) and trailer gears, excluding motor trucks, 4-wheel.....	25	(D)	31,972	(D) a/	32,799
	Boxes and racks for mounting on wagons and trailer gears:					
333111G174	Manual unloading or dump.....	7	1,928	6,170	1,750	6,712
333111G176	Gravity unloading, grain-type only.....	7	5,422	9,970	5,089	6,317
333111G178	Power unloading.....	10	a/ 2,609	31,426	r/ 2,247 r/	23,929
333111G182	Boxes with integral running gear, grain- and forage-types.....	12	a/ 3,571	32,660	3,215	26,695
333111G184	Other farm transportation equipment.....	17	(X) a/	37,808	(X) a/	30,601
333111G186	Attachments for farm transportation equipment.....	8	(X)	(D)	(X)	1,413
333111C232	Parts for farm transportation equipment, including operator cabs for farm tractors.....	30	(X) b/	91,951	(X) b/	64,870
333111G pt.	Irrigation systems.....	(NA)	(X)	786,983	(X)	701,572
333111G188	Self-propelled irrigation systems, center-pivot (quantity is in ten-tower equivalents).....	7	c/ 22,651	691,394	21,177	619,313
333111G192	All other systems using 100-foot flexible hose feeder line and over.....	8	(X)	(D)	(X)	(D)
333111C22V	Parts for irrigation systems, replacement units only.....	8	(X) b/	82,021	(X) b/	70,881
333111J	Commercial turf and grounds care equipment, including parts and attachments.....	(NA)	(X)	2,083,588	(X)	1,836,294
333111J pt.	Commercial turf and grounds mowing equipment.....	(NA)	(X)	1,704,428	(X)	1,512,763
333111J101	Powered nonriding mowers.....	18	a/ 84,472 a/	137,226	a/ 70,873	119,798

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[Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
333111J106	Riding reel-type turf mowers, including greens mowers.....	4	(D)	(D)	(D)	(D)
333111J111	Riding rotary turf mowers.....	22	(D)	1,081,051	a/ 127,230	858,158
333111J116	Gang rotary cutting units, reel and rotary, individual sections.....	7	31,782	63,535	45,152	75,387
333111J121	Flail mower cutting units, including gang.....	5	(D)	(D)	701	6,846
333111J126	Other mowing equipment.....	5	c/ (X)	c/ 41,735	(X)	42,439
333111J131	Parts for commercial turf and grounds mowing equipment.....	35	(X)	187,362	(X)	152,304
333111J136	Attachments for commercial turf and grounds mowing equipment.....	19	(X)	67,227	(X)	65,764
333111J pt.	Other commercial turf and grounds care equipment.....	(NA)	(X)	a/ 379,160	(X)	a/ 323,531
333111J141	Sod cutters and sod harvesters.....	5	(D)	(D)	(D)	(D)
333111J146	Seeders, spreaders, and top dresser attachments....	10	(D)	a/ 24,032	(D)	a/ 24,484
333111J151	Aerators, spikers, and pluggers.....	13	b/ 15,621	b/ 36,796	b/ 13,933	b/ 25,490
333111J156	Dethatchers	11	(D)	10,285	(D)	12,365
333111J161	Power brooms, blowers, vacuums, and sweepers.....	14	17,754	25,543	18,330	30,738
333111J166	Irrigation systems (except agricultural and residential).....	2	(D)	(D)	(D)	(D)
333111J171	Other commercial turf and grounds care equipment, including trap rakes, transport trailers and turf tractors and trucks.....	24	(X)	a/ 162,804	(X)	a/ 141,316
333111J176	Parts for other commercial turf and grounds care equipment.....	22	(X)	a/ 40,957	(X)	a/ 32,666
333111J181	Attachments for other commercial turf and and grounds care equipment.....	15	(X)	52,387	(X)	40,779
333112	Lawn and garden equipment.....	(NA)	(X)	7,447,785	(X)	6,975,624
3331121 pt.	Consumer nonriding lawn, garden, and snow equipment.....	(NA)	(X)	3,320,048	(X)	r/ 2,989,566
3331121104	Lawnmowers: Push-type: reel (powered and nonpowered) rotary-gas powered.....	17	4,611,567	615,947	3,755,788	520,155
3331121106	Rotary, self-propelled, gas-powered	18	2,593,717	617,699	2,104,733	524,391
3331121121	Electric, all types, including battery-powered.....	6	(D)	30,784	(D)	77,952
3331121126	Rotary garden motor tillers.....	18	(D)	(D)	(D)	(D)
3331121131	2-wheel tractors walking type (except rotary tillers).....	3	(D)	(D)	(D)	(D)
3331121136	Snow throwers (snow blowers) (except attachment-type): Single stage.....	9	(D)	131,705	388,903	128,487
3331121141	Dual stage.....	8	746,387	478,586	r/ 608,974	r/ 396,666
3331121146	Powered lawn edgers/trimmers: Fixed blade.....	13	2,043,984	292,897	r/ 2,111,382	r/ 302,292
3331121151	Other than fixed blades.....	15	6,347,952	508,433	6,261,156	r/ 461,119
3331121156	Shredders and shredder-grinders.....	9	199,266	61,056	192,603	56,830
3331121161	Yard vacuums and blowers.....	13	3,877,415	336,851	r/ 2,715,893	r/ 271,742
3331121166	Other consumer nonriding lawn, garden, and snow equipment.....	21	(X)	(D)	(X)	(D)
3331123 pt.	Consumer riding lawn, garden, and snow equipment.....	(NA)	(X)	3,207,044	(X)	a/ 3,044,714
3331123101	Lawn tractors and riding mowers, front engine: Under 10.0 hp (under 7.5 kW).....	1	(D)	(D)	(D)	(D)
3331123111	10.0 hp and over (7.5 kW and over).....	11	1,693,404	2,017,590	1,692,098	b/ 2,010,688
3331123121	Lawn tractors and riding mowers, rear engine: Under 10.0 hp (under 7.5 kW).....	3	(D)	(D)	(D)	(D)
3331123131	10.0 hp and over (7.5 kW and over).....	14	131,759	210,980	123,862	193,964
3331123141	Garden tractors: Under 16.0 hp (under 12.0 kW)	5	1,394	4,705	1,457	4,966
3331123151	16.0 hp to 19.9 hp (12.0 kW to 14.9 kW).....	7	(D)	(D)	(D)	(D)
333113161	20.0 hp and over (15.0 kW and over).....	13	209,602	555,033	192,882	501,724
3331123171	Other consumer riding lawn, garden, and snow equipment.....	5	(X)	(D)	(X)	36,020
3331127 pt.	Parts and attachments for consumer lawn, garden, and snow equipment.....	(NA)	(X)	920,693	(X)	941,344

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2004 and 2003
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2004		2003	
			Quantity	Value	Quantity	Value
	Nonriding:					
3331127101	Parts.....	38	(X)	128,329	(X)	135,919
3331127111	Attachments.....	16	(X)	43,767	(X)	49,104
	Riding:					
	Parts:					
3331127121	For tractors and riding mowers.....	23	(X)	(D)	(X)	(D)
3331127131	For other equipment.....	5	(X)	(D)	(X)	(D)
	Attachments:					
3331127141	Rotary mower decks.....	9	(X)	96,301	(X)	95,676
3331127151	Rotary tiller attachments.....	5	(X)	6,991	(X)	6,833
3331127161	Blades, dozer.....	13	(X)	27,886	(X)	29,011
3331127171	Snow throwers.....	5	(X)	18,579	(X)	29,654
3331127181	Carts and wagons.....	10	(X)	47,134	(X)	38,701
3331127191	All other attachments.....	24	(X)	170,188	(X)	140,600

- Represents zero. 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: 2004 and 2003
 [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
2004								
Farm-type wheel tractors.....	(D)	(D)	29,894	1,000,736	214,346	2,373,556	(D)	(D)
Sprayers and dusters (except aerial types).....	(X)	648,992	(X)	69,367	(X)	32,456	(X)	612,081
Planting machinery and fertilizer distributors, pull-type or mounted.....	(X)	1,100,512	27,846	102,980	135,153	99,085	(NA)	1,096,617
Disc harrows.....	14,093	116,364	1,733	6,815	13,520	2,996	25,880	112,545
Other harrows, rollers, pulverizers, and similar equipment.....	87,201	148,145	5,015	5,679	31,642	15,178	113,828	157,644
Combines.....	(D)	(D)	5,325	528,920	993	38,428	(D)	(D)
Other harvesting machines.....	21,144	830,720	4,378	114,765	2,937	36,217	19,703	752,172
Field forage harvesters.....	1,121	32,430	675	9,108	2,149	65,253	2,595	88,575
Hay mowers, mower-conditioners and windrowers.....	182,390	764,102	42,523	60,359	67,116	165,242	206,983	868,985
Other haymaking machines.....	(X)	(D)	1,353	21,694	22,513	58,301	(NA)	(D)
Balers, including pickup balers.....	19,851	385,876	6,068	91,747	4,097	35,338	17,880	329,467
Other plows.....	(X)	84,409	4,071	9,855	3,739	6,805	(NA)	81,359
Cultivators and weeders.....	13,640	85,559	11,640	17,072	22,069	58,067	24,069	126,554
Machinery for preparing animal feed.....	(D)	(D)	3,816	38,240	80,068	42,004	(D)	(D)
Other machines for preparing crops for market or for use.....	(D)	(D)	2,572	24,787	22,320	3,462	(D)	(D)
Farm poultry incubators and brooders.....	(X)	91,631	22,260	13,510	110,257	7,690	(NA)	85,811
Nests and cages (poultry equipment).....	(X)	51,355	69,643	55,676	880,407	63,806	(NA)	59,485
Self-propelled irrigation systems, center-pivot.....	22,651	691,394	1,682	44,136	119	460	21,088	647,718
All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over.....	(D)	(D)	(X)	228,574	(X)	46,610	(X)	(D)
Farm wagons and other farm transportation equipment.....	35,227	150,006	-	-	341,263	19,898	12,123	169,904
Riding turf mowers and flail and gang mowers.....	(D)	(D)	25,181	90,484	3,105	5,921	(D)	(D)
Snowblowers (snowthrowers).....	1,135,816	610,291	142,508	86,590	276,736	85,274	1,270,044	608,975
Powered lawn and hedge trimmers.....	8,391,936	801,330	633,857	63,409	1,478,631	112,616	9,236,710	850,537
2003								
Farm-type wheel tractors.....	(D)	(D)	22,125	814,123	163,612	1,749,987	(D)	(D)
Sprayers and dusters (except aerial types).....	(X)	552,021	(X)	51,849	(X)	24,363	(X)	524,535
Planting machinery and fertilizer distributors, pull-type or mounted.....	(X)	818,191	19,447	92,161	84,943	70,875	(NA)	796,905
Disc harrows.....	12,579	76,029	948	4,417	39,200	1,580	50,831	73,192
Other harrows, rollers, pulverizers, and similar equipment.....	74,862	98,978	4,239	5,117	53,605	16,923	124,228	110,784
Combines.....	(D)	(D)	4,190	395,386	4,509	36,349	(D)	(D)
Other harvesting machines.....	14,535	484,169	2,729	60,191	4,918	44,997	16,724	468,975
Field forage harvesters.....	914	21,429	1,007	12,173	2,065	60,463	1,972	69,719
Hay mowers, mower-conditioners and windrowers.....	180,356	839,616	16,666	43,190	63,705	137,181	227,395	933,607
Other haymaking machines.....	(X)	(D)	1,532	23,895	12,896	35,505	(NA)	(D)
Balers, including pickup balers.....	21,128	410,481	9,799	149,092	8,771	36,144	20,100	297,533
Other plows.....	(X)	63,821	4,956	10,306	19,582	4,589	(NA)	58,104
Cultivators and weeders.....	11,652	61,356	12,974	14,129	149,638	49,940	148,316	97,167

Table 3. Shipments, Exports, and Imports of Farm Machinery and Equipment: 2004 and 2003
 [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
Machinery for preparing animal feed.....	(D)	(D)	4,424	34,640	79,795	34,900	(D)	(D)
Other machines for preparing crops for market or for use.....	(D)	(D)	3,572	21,043	46,071	5,453	(D)	(D)
Farm poultry incubators and brooders.....	(X)	87,698	14,879	9,353	88,606	1,598	(NA)	79,943
Nests and cages (poultry equipment).....	(X)	31,399	84,844	55,617	110,696	18,463	(NA)	(5,755)
Self-propelled irrigation systems, center-pivot.....	21,177	619,313	1,609	34,961	107	704	19,675	585,056
All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over.....	(D)	(D)	(X)	185,581	(X)	44,881	(X)	(D)
Farm wagons and other farm transportation equipment.....	32,697	127,053	-	-	274,056	15,618	12,123	142,671
Riding turf mowers and flail and gang mowers.....	(D)	(D)	23,877	69,037	11,684	5,785	(D)	(D)
Snowblowers (snowthrowers).....	997,877	525,153	65,553	42,096	136,391	54,204	1,068,715	537,261
Powered lawn and hedge trimmers.....	8,372,538	763,411	550,113	52,117	1,447,059	97,601	9,269,484	808,895

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. 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.

Note: For comparison of North American Industry Classification System (NAICS)-based product codes, 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: 2004

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: 2004

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.....	8716.80.1000	8716.80.1000
333111J101, 126	Other commercial and turf grounds mowers.....	8433.19.0040 8433.19.0050	8433.19.0040 8433.19.0050

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

Product code	Product description	Export code 1/	Import code 2/
333111J106, 111, 116	Riding turf mowers.....	8433.19.0010 8433.19.0030	8433.19.0010 8433.19.0030
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

1/Source: 2004 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, (2004).

Appendix.

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

GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

EXPLANATION OF GENERAL TERMS

Capacity. The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

Consumption. Materials used in producing or processing a product or otherwise removing the product from the inventory.

Exports. Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

Interplant transfers. Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

Inventories. The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

Net receipts. Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

Production. The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

Quantities produced and consumed. Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

Stocks. Total quantity of ending finished inventory.

Unfilled orders (backlog). Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

HISTORICAL NOTE

Data on 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.