Farm Machinery and Lawn and Garden Equipment: 2001

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SUMMARY OF FINDINGS

During 2001, factory shipments of farm machinery and equipment, including parts and attachments, produced by original equipment manufacturers (OEM), totaled \$11,947.3 million, a 0.3-percent decrease from the 2000 shipments of \$11,989.2 million.

Shipments of farm dairy machines, sprayers, dusters, elevators, farm blowers, and parts totaled \$787.9 million, a decrease of 10 percent from the 2000 total of \$877.4 million. The value of shipments for harvesting machinery and parts increased 18 percent, from \$1,765.7 in 2000 to \$2,084.3 in 2001. Haying machinery and parts increased 14 percent, from \$705.3 in 2000 to \$804.8 in 2001.

The value of shipments for commerical turf and grounds care equipment, including parts, was \$2,013.5 million in 2001, a 10-percent decrease from the \$2,239.1 million reported for 2000.

The value of shipment for consumer lawn, garden, and snow equipment, including parts and attachments, was \$5,757.7 million in 2001, a 7-percent decrease from the \$6,212.8 million in 2000.

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 Richard Hough, 301-763-4823.

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 of Farm Machinery and Lawn and Garden Equipment by Type of Equipment: 1996 to 2001 (Value in millions of dollars)

Product description	2001	2000	1999	1998	1997	1996
Farm dairy machines, sprayers,						
dusters, elevators, and farm						
blowers 1/	787.9	877.4	816.8	993.6	816.6	839.2
Planting, seeding, and fertilizing						
machinery 1/	986.2	897.9	752.4	1,091.1	1,154.6	862.3
Harvesting machinery 1/	2,084.3	1,765.7	1,553.1	3,095.6	3,259.4	2,966.8
Haying machinery 1/	804.8	705.3	638.6	848.0	794.8	670.3
Plows, harrows, rollers, pulverizers,						
cultivators, and weeders 1/	515.9	501.0	464.7	631.2	696.3	542.0
Commercial turf and grounds care						
equipment 2/	2,013.5	2,239.1	1,656.8	1,361.6	1,238.8	1,118.5
Consumer nonriding lawn, garden,						
and snow equipment 3/	2,793.7	2,766.8	3,082.5	2,979.1	3,051.6	2,957.0
Consumer riding lawn, garden,						
and snow equipment 3/	2,964.0	3,446.0	3,388.9	3,276.8	2,942.9	2,861.0

^{1/}A "Parts" category and a 7-digit product class total from Table 2 has 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 "Parts 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: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

		No.			2001				2000	•
Product code	Product description	of cos.		Quantity		Value		Quantity		Value
333111	Farm machinery and equipment, including parts and attachments	(NA)		(X)		11,947,328		(X)		11,989,197
3331111	Wheel tractors (except contractors' off-highway wheel tractors, garden tractors, turf tractors, and motor tillers) and attachments	(NA)		(X)		(D)		(X)		(D)
3331111001	Wheel tractors, farm-type (PTO hp)	(NA)		(X)		(D)		(X)		(D)
3331111006	types4-wheel drive, including tractors with, equal	6		(D)		(D)		(D)		(D)
3331111011	Attachments for wheel tractors, farm-type	4 9		(D) (X)		(D) 30,889		(D) (X)	r/	(D) 31,134
333111C116 3331113	Parts for wheel tractors, farm-type Farm dairy machines, sprayers, dusters, elevators,	14		(X)		(D)		(X)		(D)
3331113	and farm blowers	(NA)		(X)		653,880		(X)		705,470
3331113 pt.	Farm dairy machines and equipment Mechanical installations:	17		(X)	b/	116,533		(X)	a/	119,708
3331113001	Milking machines, complete, suspended and floor-type bucket, single and double	_		(T)		(D)		(7)		(P)
3331113004	units Pipeline milking units, complete, including claws, shells, inflations, air tubes, with	5		(D)		(D)		(D)		(D)
	or without pulsator Other farm dairy machines and equipment	7 15		(D) (X)		(D) (D)		(D) (X)		(D) (D)
	Attachments for farm dairy machines and equipment	6		(X)		(D)		(X)		(D)
	Parts for farm dairy machines and equipment, replacement units only	10		(X)		61,869		(X)		61,871
3331113 pt.	Sprayers and dusters Power sprayers, field and row crop types only:	(NA)		(X)		502,168		(X)		536,654
3331113016 3331113021	Self-propelled	11 19	a/	2,814 6,604		305,423 14,534	a/r/	2,935 7,580	r/	331,505 15,244
3331113024	Power take-off driven, piston pump type	6	a/	779	a/	3,396		864	r/	3,993
3331113028	Nonpiston pump type	11	a/	2,245	a/	6,520	a/	2,842	b/	8,872
3331113032	Other power sprayers, over 4 g.p.m	6		(X)		(D)		(X)		(D)
331113036	Power take-off driven	6	b /	368		3,465	b /	534	b/	4,761
3331113041	Engine-driven		a/	1,002		3,848	b /	1,199	b /	4,672
3331113044	Air carried type power sprayers (field, row crop, and orchard types)	4	c/	548	c /	4,183	r/	559	r/	4,254
3331113048 3331113052	Foggers and mist sprayers portable Hand-pulled and garden-type,4 g.p.m. and	4		(D)	-	(D)		(D)		(D)
	underSprayers, agricultural hand:	10		78,870		10,741	r/	102,744	r/	12,777
3331113056	Under 1 gallon 1 gallon and over:	4		627,376		3,503		756,108		3,799
3331113061	Compressed air or gas	6		6,859,773		99,297		7,885,939		101,813
3331113064	Other, including knapsack, hose end									
0001110000	and flame sprayers and sprayer pumps	7		(X)		20,994		(X)		16,661
3331113068	Dusters, power, hand, all types	6		75,546	h /	792		68,467	0/	856
3331113072 3331113076	All other sprayers Attachments for sprayers and dusters	8 13		(X) (X)	b /	1,154 13,684		(X) (X)	a/	3,373 13,951
333111C223	Parts for sprayers and dusters, replacement	13		(A)		13,004		(A)		13,331
5551115880	units only	28		(X)		69,189		(X)		101,692
3331113 pt.	Farm elevators and blowers Farm elevators, portable:	(NA)		(X)		35,179		(X)		49,108
3331113081	Single and double chain	9		1,882		2,890		1,932		4,223

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

. •		No.			2001				2000	
Product	Product description	of			2001				2000	
code		cos.		Quantity		Value		Quantity		Value
3331113088	Auger type Other farm portable and stationary augers	10	c /	5,585		14,346		7,679		20,617
3331113092	Other farm blowers, including forage	11		(X)	a/	10,725		(X)	b /	15,987
	blowers, combination grain and forage blowers	5		(X)		1,433		(Y)	a/r/	1,996
	Attachments for farm elevators and blowers	9		(X)		5,785		(X) (X)	a/1/	6,285
	Parts for farm elevators and for grain and	ŭ		(-2)		0,700		(-2)		0,200
	forage blowers, replacement units only	20		(X)	a/	3,001		(X)		8,383
3331117	Planting, seeding, and fertilizing machinery	(NA)		(X)		858,628		(X)		764,759
3331117001	Corn planters, corn and cotton planters, and lister plant pull-type and mounted (total rows									
0001117000	mounted)	9		(D)		(D)		(D)		(D)
3331117008	Grain drills (fixed frame), all types	11		4,917		94,863		4,961		94,823
3331117011	Transplanters (pull-type or mounted) and broadcast seeders (end-gate, mounted and									
	drawn)	9	a/	8,408	a/	5,222	a/	9,651		6,548
	Fertilizer distributors (pull-type or mounted):	ŭ	•	0,100	α,	0,222	•	0,001		0,010
3331117018	Dry, including lime spreaders	26	a/	25,039		40,052	b/r/	18,407	r/	36,082
3331117021	Liquid and anhydrous ammonia	17	a/	5,964	a/	20,809		7,497		21,092
3331117028	Manure spreaders, rear discharge	12		4,219		28,236		3,986		25,320
3331117031	Manure spreaders, side discharge	6		2,614		29,772		2,684		28,231
3331117038	Manure pumps, liquid	9	a/	894		4,491		767		3,866
3331117041	Front and rear tractor mounted loaders (farm-									
	type), manure and general utility (except beet	10	1 /	00.010	1 /	100 550	,	00 750	,	05 700
2221117049	and sugar cane loaders)	13 9	b/	39,318	b/	109,552	a/	33,753 39,456	a/	95,782
3331117048 3331117051	Row crop unit planters (quantity in rows) Other planting, seeding, and fertilizing	9		43,225		64,394	r/	39,436	r/	48,345
5551117651	machinery	29		(X)		(D)		(X)		(D)
3331117058	Attachments for planting, seeding, and									
333111C229	fertilizing machinery Parts for planting, seeding, and fertilizing	24		(X)		51,804		(X)		49,651
	machinery, replacement units only	66		(X)		127,598		(X)		133,123
3331119 3331119001	Harvesting machinery	(NA)		(X)		1,851,502		(X)		1,533,113
	only (self-propelled and pull-type)	9		(D)		(D)		(D)		(D)
3331119011	Small grain header for combines, all sizes	6		(D)		(D)		(D)		(D)
3331119021	Corn heads, all sizes	6		(D)		(D)		(D)		(D)
3331119031	Other grain-type combines Field forage harvesters:	2		(X)		(D)		(X)		(D)
3331119041	Shear bar, self-propelled type and pull-type			-		-				
3331119051	(basic machines)	3		(D)		(D)	b/	1,743	b/	38,010
	harvester	3		(X)		(D)		(X)		(D)
3331119061	Flail-type (horizontal knives or vertical free-									
	swinging knives or hammers), including	9		(D)		(D)		(D)		(D)
3331119071	discharge spouts Other harvesting machinery, including potato	3		(D)		(D)		(D)		(D)
3331119071	diggers, cane harvesting equipment, and									
	picker-shellers	46		(X)		(D)		(X)		(D)
3331119081	Attachments for harvesting machinery, including			(-)		(-)		()		(-)
	platform and seeder, reel, straw spreaders,									
	load levelers, weed stripper, grate unit, knife									
	grinders, and stalk walkers	21		(X)		96,078		(X)		98,455
333111C22A	Parts for harvesting machinery, replacement			~ n						
	units only	52		(X)		232,771		(X)	r/	232,559
333111A	Haying machinery	(NA)		(X)		726,264		(X)		627,138
333111A 333111A001	Mowers, cutter bar type, including drum and	(11A)		(A)		720,204		(A)		027,100
20011111001	disk	7		4,080		20,423		2,921		13,996
333111A011	Mower-conditioners and windrowers with conditioner auger and draper-type (pull-type									
	and self-propelled)	8		13,556		223,323		12,947		203,554

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

		No.			2001				2000	
Product code	Product description	of cos.		Quantity	2001	Value		Quantity	2000	Value
code		cos.		quantity		varae		quantity		varac
333111A021	Rakes, side delivery, cylinder type, and finger wheel type	10	a/	8,743	a/	34,930	a/	9,112		34,602
333111A031	Hay balers, hay stackers, (field type), hay bale loaders, bale throwing attachments	18		22,260		391,459		19,437		322,510
333111A041	Other haying machinery			(X)		(D)		(X)		(D)
333111A051	Other attachments for having machinery (stripper,	10		(V)		(D)		(V)		(D)
333111C22C	bale chute and knife attachments) Parts for haying machinery, replacement units	10		(X)		(D)		(X)		(D)
	only	24		(X)		78,545		(X)		78,113
333111E	Plows, harrows, rollers, pulverizers, cultivators, and	(NIA)		(V)		000 700		(1/2)		200.050
	weeders	(NA)		(X)		398,729		(X)		390,658
333111E pt.	Plows (primary tillage equipment)			(X)		98,420		(X)		129,265
333111E001	Subsoilers, deep tillage			4,242		34,808	,	4,245		34,055
333111E009	Terracing and ditching plows	10		337		668	r/	220		420
333111E011	type): Pull-type	10		915		11,977		914		11,349
333111E011	Mounted			546		2,799	r/	595	r/	3,964
333111E021	Other plows (except snow plows)			(X)	a/	15,063	-/	(X)	1,	33,769
333111E059	Middlebusters and disc bedders			2,752	•	2,729		3,636		4,086
333111E031	Attachments for plows (coulters, jointers, root cutters subsoilers, fertilizer distributors,			·		,		ŕ		·
	etc.), excluding lister planting attachments	23		(X)		25,446		(X)	b/	34,596
333111E039	Plowshares (quantity in thousands of pounds)	6		2,669,211		4,930	r/	5,953,817		7,026
333111C22E	Parts for plows (except plowshares, replacement units only)	21		(X)		42,392		(X)		43,908
333111E pt.	Harrows, rollers, pulverizers and similar equipment (secondary tillage)	(NA)		(X)		183,025		(X)		169,436
333111E041	Spike-tooth harrow sections and spring-tooth	10		16 994		12.000		17 967		19.047
333111E049	and tine-tooth harrow sections	19 22		16,824 $12,111$		13,069 80,026		17,267 11,595		12,947 60,867
333111E049 333111E051	Disc harrows, single, tandem, and offset	22		12,111		80,020		11,393		00,807
	disc or coulter/spring tooth	27	a/	6,538		27,354	r/	7,306		32,511
333111E058	Blade terracers or scrapers (farm-size)		α,	39,849		22,914	r/	46,219		22,511
333111E061	Land levelers			1,335		2,084	•	1,559	r/	2,450
333111E069	Other harrows, rollers, pulverizers, and									
333111E071	similar equipment Attachments for harrows, rollers, pulverizers,	25		(X)		27,710		(X)		27,745
333111C22G	and similar equipmentParts for harrows, rollers, pulverizers, and	14		(X)		9,868		(X)		10,405
	similar equipment, replacement units only	37		(X)		39,884		(X)		36,816
333111E pt.	Cultivators and weeders	(NA)		(X)		117,284		(X)		91,957
333111E079	Corn and cotton type cultivators, shank and									
	sweep type (front and rear mounted)	17	c/	1,694	a/	11,084		1,790	a/	10,227
333111E081	Rotary cultivators, ground and power driven	10		2,918		6,759	r/	2,894	r/	5,958
333111E089	Field cultivators	14		5,862		62,140		5,191		45,247
333111E091	Other cultivators and weeders, including	18		(X)	0/	7,624		(X)	n /	6,320
333111E099	tool bars (basic units) Attachments for cultivators and weeders	10		(A)	a/	7,024		(A)	r/	0,320
333111E033	(front mounting frame, disc weeders, rear									
	section, and drawbars)	22		(X)		29,677		(X)	r/	24,205
333111C22J	Parts for cultivators and weeders, replacement									
	units only	27		(X)		34,866		(X)	r/	29,614
333111G	All other farm machinery and equipment (except									
	parts)	(NA)		(X)		1,387,300		(X)		1,517,987
333111G pt.	Stalk shredders and cutters or rotary mowers									
	(PTO)			(X)	_	234,483	_	(X)	r/	219,518
333111G002	Flail type (without spout)	15	b/	1,164	b/	9,641	b/	1,235	b/	10,637

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

	•									
		No.			2001				2000	
Product	Product description	of								
code		cos.		Quantity		Value		Quantity		Value
	Horizontal blade type:									
333111G004	66 inches cutting width and under	27	a/	84,243		54,783	r/	90,508	r/	55,532
333111G006	Over 66 inches up to 100 inches cutting	~ '	u,	01,210		04,700	1,	00,000	17	00,002
0001114000	width	23	a/	48,686		78,942	r/	51,926		75,099
333111G008	Over 100 inches cutting width	17	a/	13,517		91,117		11,668		78,250
333111C22L	Parts for stalk shredders, and cutters or rotary									
	mowers (PTO), replacement units only	28		(X)		34,766		(X)		32,299
333111G pt.	Machines for preparing crops for market or for	~~.		~~				~~		
2221117012	Use		0/	(X) 742	0/	197,160		(X)		258,149
333111G012 333111G014	Feed grinders and crushers, power Feed mixers, farm-size, stationary and	11	a/	142	a/	12,196		1,754		22,749
333111G014	portable	16		3,318		64,474	r/	4,032	r/	70,214
333111G016	Combination grinder-mixers	5		(D)		(D)	17	(D)	17	70,214 (D)
	Dryers (grain, hay, and seed):			(-)		(-)		(_ /		(_)
333111G018	Heated air crop dryers	16	b/	5,698		29,550	a/	6,607		42,416
333111G022	Crop drying fans (over 15,000 c.f.m. at									
	approximately 1-inch pressure)	9		(D)		(D)		(D)		(D)
333111G024	Other machines for preparing crops for									
0004445000	market or for use	37		(X)		68,087		(X)	r/	90,359
333111G026	Attachments for machines for preparing			an.		10.000		an.		10.105
333111C22N	crops for market or for use	15		(X)		13,299		(X)		13,195
333111C22N	Parts for machines for preparing crops for market or for use, replacement units only	38		(X)	a/	34,425		(X)		44,175
	market of for use, replacement units only	36		(A)	a/	34,423		(A)		44,173
333111G pt.	Farm poultry equipment	(NA)		(X)		248,768		(X)		262,168
333111G028	Incubators, quantity represents egg capacity	()		(-)		,		(-)		,
	in thousands	9		54,812		37,496	r/	55,483		37,570
333111G032	Brooders, floor and hanging (gas, electric, oil,									
	coal, wood and battery)	11		124,805		23,924		142,890	r/	26,983
333111G034	Nests and cages	9		2,146,520		30,891		3,384,926	r/	46,392
333111G036	Poultry feeders (trough, hanging, and									
	mechanical) and waterers (except turkey			4 700 400		×0.0×0		0.440.070		07.010
0001110000	feeders and waterers)	11		4,532,130		53,356		6,446,958		65,913
333111G038	Other farm poultry equipment, including turkey waterers, mechanized egg graders,									
	and egg washers	16		(X)		94,886		(X)		75,362
333111G042	Attachments for farm poultry equipment	14		(X)		8,215		(X)		9,948
333111C22P	Parts for farm poultry equipment, replace-			(-)		2,2		(-)		-,
	ment units only	16		(X)	a/	18,841		(X)		20,215
333111G pt.	Hog equipment			(X)		136,421		(X)		111,875
333111G044	Feeding equipment		a/			52,721		119,825		41,659
333111G046	Handling equipment		c/	497,842	b /	41,192	r/	396,002	r/	35,000
333111G048 333111G052	Watering equipment Other hog equipment	17 22	a/	432,952	a/	3,884 37,166		404,169		3,760 30,102
333111G052	Attachments for hog equipment	10		(X) (X)	a/	1,458		(X) (X)		1,354
333111G034 333111C22T	Parts for hog equipment, replacement units	10		(A)		1,436		(A)		1,334
0001110221	only	17		(X)		(D)		(X)		(D)
	<u>J</u>			(-)		(-)		(-)		(_)
333111G pt.	Other barn and barnyard equipment	(NA)		(X)		151,724		(X)		180,812
333111G056	Silo and grain bin unloaders, forage and grain,									
	including sealed storage unloaders (farm-									
	type)	13	c/	13,854		33,262		33,630		42,426
0001116050	Cattle and dairy barn equipment:	0.1		01.017	,	00.570		110 700	,	04.100
333111G058 333111G062	Feeding equipment	31 30	b/	81,817 564,225	a/ b/	20,573 38,025	a/r/	112,762 571,588	a/ b/	24,130 47,517
333111G062	Water equipment		IJ/	367,911	IJ/	27,757	a/1/ r/	359,284	IJ/	26,072
XXX	Other barn and barnyard equipment	34		(X)		27,196	1/	(X)	r/	34,074
333111G068	Attachments for barn and barnyard equipment.	17		(X)		4,911		(X)	r/	6,593
333111C22U	Parts for barn and barnyard equipment,			` '		,- -		. 7		,
	replacement units only	25		(X)		14,982		(X)		16,116
333111G pt.	Farm wagons, and other farm transportation	(NTA)		an.		107 401		an.		1.47 000
	equipment	(INA)		(X)		135,401		(X)		147,929

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

	•									
		No.			2001				2000	
Product	Product description	of								
code		cos.	(Quantity		Value		Quantity		Value
0004446070	W (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
333111G072	Wagons (chassis only) and trailer gears,	20		10.000		40.007	- /	10.010	L/	40 400
	excluding motor trucks, 4-wheel	29		19,086		43,327	a/	19,913	b/	42,486
	Boxes and racks for mounting on wagons									
2221110074	and trailer gears:	0		1 1 4 9		2 564	/	1 999	/	2 402
333111G074	Manual unloading or dump	8 7		1,142		3,564	r/	1,232 5,207	r/	3,482 8,274
333111G076	Gravity unloading, grain-type only			4,783		6,901	- /	,	a/	,
333111G078	Power unloading	16		2,213		22,456	a/	3,235	a/	29,203
333111G082	Boxes with integral running gear, grain-	12		2,965		10.959		3,325		22,522
2221110004	and forage-types Other farm transportation equipment	18		2,903 (X)		19,852 37,903			r/	40,740
333111G084 333111G086	Attachments for farm transportation	10		(A)		37,903		(X)	1/	40,740
3331110000	equipment	11		(X)	a/	1,398		(X)	a/	1,222
333111C232	Parts for farm transportation equipment,	11		(A)	a/	1,336		(A)	a/	1,222
3331110232	including operator cabs for farm tractors	31		(X)		(D)		(X)		(D)
	merading operator cabs for farm tractors	01		(21)		(D)		(21)		(D)
333111G pt.	Irrigation systems	(NA)		(X)		283,343		(X)		337,536
333111G088	Self-propelled irrigation systems, center-pivot	(1471)		(21)		200,040		(11)		007,000
0001114000	(quantity is in ten-tower equivalents)	6		8,368		258,267		9,871		303,801
333111G092	All other systems using 100-feet flexible hose	Ū		0,000		200,207		0,071		000,001
000111d002	feeder line and over	9		(X)	a/	25,076		(X)	r/	33,735
333111C22V	Parts for irrigation systems, replacement units	Ü		(22)	u,	20,010		(11)	• ′	00,700
0001110221	only	8		(X)		(D)		(X)		(D)
	0111 /	Ü		(22)		(2)		(11)		(2)
333111J	Commercial turf and grounds care equipment,									
	including parts and attachments	(NA)		(X)		2,013,513		(X)		2,239,097
		()		(-)		,,.		(-)		,,
333111J pt.	Commercial turf and grounds mowing equipment	(NA)		(X)		1,713,373		(X)		1,867,106
333111J001	Powered nonriding mowers	18	b/	118,671		186,284	b/r/	125,658	r/	195,886
333111J006	Riding reel-type turf mowers, including									
	greens mowers	5		(D)		(D)		(D)		(D)
333111J011	Riding rotary turf mowers	20	a/	133,180		901,271	a/r/	136,420	r/	872,552
333111J016	Gang rotary cutting units, reel and rotary,									
	individual sections	8		(D)		(D)		(D)		(D)
333111J021	Flail mower cutting units, including gang	7		(D)		(D)		(D)		(D)
333111J026	Other mowing equipment	9		(X)		44,692		(X)		58,010
333111J031	Parts for commercial turf and grounds									
	mowing equipment	35		(X)		145,412		(X)		135,599
333111J036	Attachments for commercial turf and									
	grounds mowing equipment	22		(X)		43,155		(X)		41,064
333111J pt.	Other commercial turf and grounds care									
	equipment			(X)		300,140		(X)		371,991
333111J041	Sod cutters and sod harvesters	3		(D)		(D)		(D)		(D)
333111J046	Seeders, spreaders, and top dresser attach-	10		070 075		07.710		1 070 005	,	00.070
0001111051	ments	10		879,075		27,512		1,072,095	r/	32,376
333111J051	Aerators, spikers, and pluggers	15		11,720		25,131		18,601	r/	42,586
333111J056	Dethatchers	11		7,262		4,998		8,769		6,377
333111J061	Power brooms, blowers, vacuums, and	10		17 400		05 004		10.000		05 001
0001111000	sweepers	16		17,499		25,304		18,363		25,601
333111J066	Irrigation systems (except agricultural and	2		(D)		(D)		(D)		(D)
2221111071	residential)	2		(D)		(D)		(D)		(D)
333111J071	Other commercial turf and grounds care									
	equipment, including trap rakes, transport trailers and turf tractors and trucks	24		(X)		140,167		(X)		173,772
333111J076	Parts for other commercial turf and grounds	24		(A)		140,107		(A)		173,772
5551115070	care equipment	23		(X)		16,795		(X)		17,083
333111J081	Attachments for other commercial turf and	23		(A)		10,793		(A)		17,003
5001113001	and grounds care equipment	17		(X)		40,740		(X)		43,142
	and grounds out equipment minimum.	1,		(21)		10,740		(21)		10,142
333112	Lawn and garden equipment	(NA)		(X)		5,757,675		(X)		6,216,592
	8m don edarbment	(* · · · · · · · · · · · · · · · · · · ·		(22)		5,. 51,010		(z*)		0,220,002
3331121 pt.	Consumer nonriding lawn, garden, and snow									
· r ··	equipment	(NA)		(X)		2,641,123		(X)		2,594,609
	1 - F	(- · · · · ·)		()		-,1,120		(-1)		,,

Table 2. Manufacturers' Shipments of Farm Machinery and Lawn and Garden Equipment by Type: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

D 1 .		No.		2001				2000	
Product code	Product description	of cos.	Quantity		Value		Quantity		Value
	Lawnmowers:								
	Push-type: reel (powered and nonpowered)								
	rotary-gas powered	15	3,765,178		535,251		4,089,841		562,452
3331121006	Rotary, self-propelled, gas-powered	16	2,194,081		605,637	r/	2,164,420	r/	584,253
3331121021	Electric, all types, including battery-powered	5	(D)		(D)		(D)		(D)
3331121026	Rotary garden motor tillers	11	398,890		107,387	r/	481,029		171,763
3331121031	2-wheel tractors walking type (except rotary								
	tillers)	2	(D)		(D)		(D)		(D)
	Snow throwers (snow blowers) (except attach-								
	ment-type):								
3331121036	Single stage	6	438,045		129,781	r/	344,280	r/	98,509
3331121041	Dual stage	6	436,720		263,527	r/	343,275	r/	194,429
	Powered lawn edgers/trimmers:								
3331121046	Fixed blade	11	576,630		77,487	r/	586,688	r/	91,512
3331121051	Other than fixed blades	11	7,862,561		504,960	r/	8,135,924	r/	469,474
3331121056	Shredders and shredder-grinders	4	(D)		(D)		(D)		(D)
3331121061	Yard vacuums and blowers	7	3,048,013		242,470	r/	2,959,942	r/	210,581
3331121066	Other consumer nonriding lawn, garden, and								
	snow equipment	13	(X)	c/	99,619		(X)	r/	98,127
3331123 pt.	Consumer riding lawn, garden, and snow	~~~	~ n				~~		
	equipmentLawn tractors and riding mowers, front engine:	(NA)	(X)		2,385,160		(X)		2,802,671
3331123001	Under 10.0 hp (under 7.5 kW)	4	(D)		(D)		(D)		(D)
3331123011	10.0 hp and over (7.5 kW and over)	8	1,342,977		1,578,861	r/	1,490,704	r/	1,779,458
	Lawn tractors and riding mowers, rear engine:				, ,		, ,		, ,
3331123021	Under 10.0 hp (under 7.5 kW)	5	(D)		(D)		(D)		(D)
3331123031	10.0 hp and over (7.5 kW and over)	11	103,400		160,473		127,488		204,250
	Garden tractors:								
3331123041	Under 16.0 hp (under 12.0 kW)	6	6,183		19,837		9,204		27,390
3331123051	16.0 hp to 19.9 hp (12.0 kW to 14.9 kW)	6	(D)		(D)		(D)		(D)
333113061	20.0 hp and over (15.0 kW and over)	10	114,518		319,626	r/	176,147		492,331
3331123071	Other consumer riding lawn, garden, and								
	snow equipment	6	(X)		(D)		(X)		(D)
3331127 pt.	Parts and attachments for consumer lawn,								
	garden, and snow equipment Nonriding:	(NA)	(X)		731,392		(X)		819,312
3331127001	Parts	29	(X)		117,313		(X)		130,916
3331127011	Attachments	12	(X)		35,245		(X)	r/	41,250
	Riding:		()				(-)		,
3331127021	Parts:	21	(X)		210.041		(X)		366.892
	For other againment	7	` ,	0/	319,941		` ,	/	,
3331127031	For other equipment Attachments:	,	(X)	a/	6,507		(X)	r/	5,398
3331127041	Rotary mower decks	10	(X)		56,216		(X)	r/	73,274
3331127051	Rotary tiller attachments	9	(X)		(D)		(X)		(D)
3331127061	Blades, dozer	9	(X)		21,388		(X)	r/	23,021
3331127071	Snow throwers	9	(X)		(D)		(X)		(D)
3331127081	Carts and wagons	12	(X)	a/	29,895		(X)		29,248
3331127091	All other attachments	23	(X)		124,150		(X)		124,466

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part. 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.

 $Table\ 3.\ Shipments,\ Exports,\ and\ Imports\ of\ Farm\ Machinery\ and\ Equipment:\ 2001\ and\ 2000\ [Quantity\ in\ units.\ Value\ in\ thousands\ of\ dollars]$

Product description	Manufacturers' shipments		Exports of d merchand		Imports for consumption 2/		
	Quantity		Value	Quantity	Value	Quantity	Value
2001							
Farm-type wheel tractors Sprayers and dusters (except aerial	(D)		(D)	30,578	736,133	103,690	1,292,944
types) Planting machinery and fertilizer	(X)		488,484	(NA)	36,920	(NA)	33,993
distributers, pull-type or mounted Disc harrows	(X) 12,111		806,824 80,026	17,714 1,011	64,448 5,029	212,866 43,357	41,505 2,331
Other harrows, rollers, pulverizers,							
and similar equipment	68,096		93,131	4,558	5,988	6,572	11,631
Combines	(D)		(D)	4,437	298,851	9,466	129,805
Other harvesting machines	18,589		581,362	2,060	53,440	10,790	50,359
Field forage harvesters	1,008		21,597	1,244	13,058	1,400	39,503
Hay mowers, mower-conditioners							
and windrowers	165,246		478,229	19,123	60,184	54,736	117,260
Other haymaking machines	(X)		(D)	2,171	31,332	8,907	19,601
Balers, including pickup balers	22,260		391,459	7,462	101,387	3,553	22,584
Other plows	(X)		68,044	2,186	6,658	29,069	5,180
Cultivators and weeders Machinery for preparing animal	14,191		87,607	20,490	18,875	217,193	36,542
feedOther machines for preparing	(D)		(D)	7,660	48,609	7,698	31,174
crops for market or for use Farm poultry incubators and	(D)		(D)	5,566	27,738	46,187	8,681
brooders	(NA)		61,420	40,036	20,987	61,718	6,688
Nests and cages (poultry equipment) Self-propelled irrigation systems,	(X)		30,891	67,841	55,388	312,486	15,193
center-pivot	8,368		258,267	1,924	37,497	166	390
All other self-propelled irrigation systems using 100 feet flexible							
hose feeder line and over Farm wagons and other farm	6,040		25,076	(NA)	169,749	(NA)	24,299
transportation equipment Riding turf mowers and flail and	36,787		134,003	-	-	118,221	10,139
gang mowers	(D)		(D)	21,224	61,876	2,914	1,053
Snowblowers (snowthrowers)	874,765		393.308	62,811	33,972	31,217	21,706
Powered lawn and hedge trimmers	8,439,191		582,447	1,198,565	80,960	4,007,986	216,718
2000							
Farm-type wheel tractors Sprayers and dusters (except aerial	(D)		(D)	32,788	722,072	109,925	1,383,860
types)Planting machinery and fertilizer	(X)	r/	522,703	(NA)	34,070	(NA)	29,419
distributers, pull-type or mounted	(X)	r/	751,190	18,739	64,688	133,695	33,603
Disc harrows	11,595		60,867	1,096	5,841	67,563	2,113
Other harrows, rollers, pulverizers, and similar equipment	77 957		09 164	5 116	5,480	14 245	9,457
Combines	77,257 (D)		98,164	5,116 4,830	349,934	14,345 1,263	9,457 108,237
Other harvesting machines			(D) 493,708	4,830 2,407	,		
Field forage harvesters	15,585				52,456	5,755 799	44,756
	1,798		38,773	1,266	14,889	799	47,597
Hay mowers, mower-conditioners and windrowers	171,205		437,068	19,852	52,360	58,229	103,735
Other hazmaking machines	an		(D)	0.100	0.4.000	7.010	14 500
Other haymaking machines	(X)		(D)	2,106	24,808	7,016	14,529
Balers, including pickup balers	19,437		322,510	10,990	92,296	2,661	15,558
Other plows	(X)		87,643	3,959	11,708	34,958	3,363

Table 3. Shipments, Exports, and Imports of Farm Machinery and Equipment: 2001 and 2000 [Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		's'	Exports of d merchand		Imports consumpt	
	Quantity		Value	Quantity	Value	Quantity	Value
Cultivators and weeders Machinery for preparing animal	13,561	r/	67,752	14,792	18,308	203,368	35,844
feedOther machines for preparing	(D)		(D)	5,266	41,615	67,397	27,216
crops for market or for use Farm poultry incubators and	(D)		(D)	3,441	22,162	48,465	9,640
brooders	(NA)		64,553	26,960	13,950	38,648	2,760
Nests and cages (poultry equipment) Self-propelled irrigation systems,	(X)	r/	46,392	115,289	67,956	200,895	11,968
center-pivot	9,871		303,801	2,420	42,738	69	558
All other self-propelled irrigation systems using 100 feet flexible							
hose feeder line and over	7,846	r/	33,735	(NA)	192,811	(NA)	21,242
Farm wagons and other farm							
transportation equipment Riding turf mowers and flail and	39,778	r/	146,707	-	-	102,351	12,652
gang mowers	(D)		(D)	18648	61,839	3,484	2,155
Snowblowers (snowthrowers)	687,555	r/	292,938	69,200	38,339	12,751	10,130
Powered lawn and hedge trimmers	8,722,612	r/	560,986	1,354,900	89,604	4,353,832	206,968

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

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

^{1/}Source: Census Bureau report, EM 545, U.S. Exports. 2/Source: Census Bureau report, IM 145, U.S. Imports for Consumption.

Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3331111001, 006, 3331123041, 051, 061	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 8701.90.1065	8701.90.1005 8701.90.1010 8701.90.1015 8701.90.1030 8701.90.1035 8701.90.1040 8701.90.1045 8701.90.1050 8701.90.1060 8701.90.1065 8701.90.1065 8701.90.1070
3331113016, 021, 024, 028, 032, 036, 041, 044, 048, 052, 056, 061, 064, 068, 072	Sprayers and dusters (except aerial types)	8424.81.1000 8424.81.9030	8424.81.1000 8424.81.9040 8424.81.9090
3331117001, 008, 011, 048	Planting machinery	8432.30.0010 8432.30.0090	8432.30.0010 8432.30.0090
3331117018, 021, 028, 031, 038, 041, 051	Fertilizer distributors pull-type or mounted	8432.40.0000	8432.40.0000
333111E041, 051, 058, 061, 069	Other harrows, rollers, pulverizers, and similar equipment	8432.29.0090	8432.29.0090
333111E049	Disc harrows	8432.21.0000	8432.21.0000
3331119001	Combines	8433.51.0010 8433.51.0090	8433.51.0010 8433.51.0090
3331119011, 021, 031, 071	Other harvesting machines	8433.52.0000 8433.59.0090 8433.53.0000	8433.52.0000 8433.59.0090 8433.53.0000
3331119041, 061	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: 2001

Product code	Product description	Export code 1/	Import code 2/
333111A001, 011, 333111G002, 004, 006, 008	Hay mowers, mower-conditioners and windrowers	8433.20.0020 8433.20.0040 8433.20.0060	8433.20.0020 8433.20.0040 8433.20.0060
333111A021, 041	Other haymaking machinery	8433.30.0000	8433.30.0000
333111A031	Balers, including pickup balers	8433.40.0000	8433.40.0000
333111E001, 009, 011, 019, 021, 059	Other plows	8432.10.0040 8432.10.0060	8432.10.0040 8432.10.0060
333111E079, 081, 089, 091	Cultivators and weeders	8432.29.0040 8432.29.0060 8432.29.0080	8432.29.0040 8432.29.0060 8432.29.0080
333111G012, 014, 016	Machinery for preparing animal feed	8436.10.0000	8436.10.0000
333111G024, 018, 022	Other machines for preparing crops for market or for use	8419.31.0000 8436.80.0060	8419.31.0000 8436.80.0060
333111G028, 032	Farm poultry incubators and brooders	8436.21.0000	8436.21.0000
333111G034	Nests and cages (poultry equipment)	8436.29.0000 8433.60.0000	8436.29.0000 8433.60.0000
333111G088	Self-propelled irrigation systems, center-pivot	8424.81.9010	8424.81.9010
333111G092	All other self-propelled irrigation systems using 100 feet flexible hose feeder line and over	8424.81.9020	8424.81.9020
333111G072, 074, 076, 078, 082, 084	Farm wagons and other farm transportation equipment	8716.80.1000	8716.80.1000
333111J001, 026	Other commercial and turf grounds mowers	8433.19.0040 8433.19.0050	8433.19.0040 8433.19.0050
333111J006, 011, 016	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: 2001

Product code	Product description	Export code 1/	Import code 2/
333111J021	Flail and gang mowers	8433.19.0020	8433.19.0020
3331121036, 041	Snowblowers (snowthrowers)	8430.20.0060	8430.20.0060
3331121046, 051	Powered lawn and hedge trimmers	8467.89.5030 8508.80.0070	8467.89.5030 8508.80.0070

1/Source: 2001 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, (2001).

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.