

# CURRENT INDUSTRIAL REPORTS SERIES

## 2007 MA333A — FARM MACHINERY AND LAWN AND GARDEN EQUIPMENT (SHIPMENTS)

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of survey

This survey covers firms engaged in the manufacture of farm tractors, farm machinery and equipment, farm irrigation equipment, turf equipment, and lawn and garden equipment.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact listed on the report form or write to the U.S. Census Bureau for additional forms.

#### a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your 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 your own branches should be assigned the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

#### b. Units of measure

Quantity — Report in number of units  
Value — Report in thousands of dollars

#### c. Columnar structure of report

When posting your figures to the report, please be sure to report information in the correct columns.

These are:

Column 1 — Quantity of shipments  
Column 2 — Value of shipments

#### d. Not included in this survey

Contractors' off-highway wheel tractors (2- and 4-wheel) are excluded from this survey. These units are primarily designed to be used for towing all types of scrapers, trailers, wagons, and similar types of towed equipment for use on natural terrain but restricted by State laws or regulations from operating on public highways when attached to towed unit under loaded conditions.

#### 3. Definitions

**WHEEL TRACTORS** (Except contractors' off-highway type, garden tractors, and motor tillers.) Include in this section all wheel tractors except contractors' off-highway type, garden tractors, and motor tillers. Horse power data for farm tractors should be based on power take off (PTO) while the other categories of wheel tractors are based on net engine horsepower (NEHP).

**TURF TRACTORS** — A self-propelled riding vehicle, typified by a low center of gravity, equipped with wide turf-tread tires.

**GARDEN TRACTORS** — Weighing less than 1,200 pounds (basic machine) typically powered by air cooled engines with fewer than 4 cylinders and total piston displacement of under 45 cubic inches. Such tractors are further distinguished from farm tractors in that they usually carry an engine horsepower rating but not a (PTO) horsepower rating.

**LAWN TRACTORS AND RIDING MOWERS** — A self-propelled riding vehicle, generally designed for cutting grass, which is not capable of pulling a plow.

**NET ENGINE HORSEPOWER (NEHP)** — Net flywheel performance as measured by manufacturer, with all standard accessories installed, operated and corrected to 29.38 inches mercury (Hg) and temperature of 85 degrees Fahrenheit.

**PARTS** — Manufactured components essential to the completeness and proper operation of a machine, vehicle, or apparatus. Examples of parts are (1) a wheel for a cultivator, (2) a plowshare, (3) a gear. Report only parts sold for replacement and repairs.

**ATTACHMENTS** — Supplementary devices designed to be attached to vehicle or apparatus that either (1) vary or extend the function of the unit, or (2) add to the convenience or effectiveness of the basic unit. Examples of attachments are (1) a root cutter fastened to a plow, (2) a drilling device applied to a checkrow corn planter.

#### ABBREVIATIONS AND METRIC CONVERSIONS

hp = horsepower = .7457 kilowatts (kW)  
PTO = Power take off type  
NEHP = Net engine horsepower  
gal = gallon = 3.7854 liters (L)  
kgs = kilograms = 2.20462 pounds (lbs)  
inch = 2.54 centimeters (cm)  
l.p.m. = liter per minute  
g.p.m. = gallons per minute  
b.t.u. = British thermal unit  
c.f.m. = cubic feet per minute

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## DEFINITIONS AND SPECIAL INSTRUCTIONS – Continued

### 4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below.

Current Industrial Reports (Form MA333A)	Economic Census - Manufacturing Sector
Item codes (a)	Product codes (b)
6198	3331111100
6217, 6268, 6285	3331114100
6385	3331117100
6585	3331119100
6685	333111A100
6735, 6753 and 6796	333111E100
6825, 6846, 6858, 6865, 6878, 6888, 6898	333111G100
8119, 8145	333111J100
8266	3331121100
8289	3331123100
8307 and 8339	3331127100
6910	333111C110
6959	333111C220
8653	3339228653
8655	3339228655
8657	3339228657

pt = part

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## REFERENCE LIST

Product code	Item code	Item description
FORM MA333A FARM MACHINERY AND LAWN AND GARDEN EQUIPMENT (SHIPMENTS)		
*3331111102	6105	FARM-TYPE WHEEL TRACTORS (Excluding contractors' off-highway wheel tractors, nonfarm (industrial type) garden tractors, turf tractors, and motor tillers) Wheel tractors, farm-type (power take-off hp) (2-and 4-wheel drive)
3331111111	6187	Attachments for wheel tractors, farm type (excluding attachments for tractor chassis shipped as part of front engine design tractor shovel loader/backhoes (NEHP))
3331111100	6198	Total Farm-Type wheel tractors and attachments (Sum of item codes 6105–6187)
FARM DAIRY MACHINES AND EQUIPMENT		
Mechanical installations		
*3331114101	6204	Milking machines, complete; suspended and floor type bucket, single and double units
*3331114104	6208	Pipeline milking units, complete (include claws, shells, inflations, air tubes, with or without pulsator)
*3331114106	6213	Other farm dairy machines and equipment
*3331114108	6216	Attachments for farm dairy machines and equipment – Value only
XXX	6217	Total, farm dairy machines and equipment (Sum of item codes 6204–6216 ) – Value only
SPRAYERS AND DUSTERS (excluding aerial types)		
Power sprayers, field and row crop types only		
*3331114116	6219	Self-propelled
*3331114121	6230	Tractor mounted
Other than tractor mounted		
*3331114124	6240	PTO driven, piston pump type
*3331114128	6245	Nonpiston pump type
*3331114132	6246	Other power sprayers, over 4 g.p.m.
Power sprayers, other than row crop and field types (over 4 g.p.m.) 15.2 l.p.m.		
*3331114136	6247	PTO driven
*3331114141	6249	Engine driven
*3331114144	6250	Air carried type power sprayers (field, row crop, and orchard types)
*3331114148	6251	Foggers and mist sprayers, portable
*3331114152	6258	Hand pulled and garden type 4 g.p.m. and under

\*New or revised for 2007

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## REFERENCE LIST

FORM MA333A		
Product code	Item code	Item description
		SPRAYERS AND DUSTERS (except aerial types) — Continued Sprayers, agricultural hand
*3331114156	6259	Under 1 gallon
*3331114161	6261	1 gallon and over
*3331114164	6262	Compressed air or gas
		Other, including, knapsack, hose end and flame sprayers and sprayer pumps
*3331114168	6263	Dusters, power, hand, all types
*3331114172	6264	All other sprayers — Value only
*3331114176	6265	Attachments for sprayers and dusters — Value only
XXX	6268	Total, sprayers and dusters (Sum of item codes 6219–6265) — Value only
		FARM BLOWERS
3331114192	6274	Farm blowers, including forage blowers, combination grain and forage blowers
3331114194	6282	Attachments for farm blowers — Value only
XXX	6285	Total, farm blowers (Sum of item codes 6274–6282)— Value only
		PLANTING, SEEDING, FERTILIZING MACHINERY
3331117101	6321	Corn planters, corn and cotton planters, and lister planters – pull type and mounted, total rows – mounted
3331117108	6324	Grain drills (fixed frame) all types
3331117111	6340	Transplanters (pull type or mounted) and broadcast seeders (end-gate, mounted and drawn)
		Fertilizer distributors (pull type or mounted) (exclude fertilizer attachments; lawn and garden hand types)
3331117118	6350	Dry (including lime spreaders)
3331117121	6357	Liquid and anhydrous ammonia
3331117128	6361	Manure spreaders, rear discharge
3331117131	6365	Manure spreaders, side discharge
3331117138	6369	Manure pumps, liquid
3331117141	6373	Front and rear tractor mounted loaders (farm type), manure and general utility (except beet and sugar cane loaders)

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FORM MA333A		
Product code	Item code	Item description
		PLANTING, SEEDING, FERTILIZING MACHINERY — Continued
3331117148	6377	Row crop unit planters (number of rows)
3331117151	6379	Other planting, seeding, and fertilizing machinery (except machinery specified above)
3331117158	6384	Attachments; exclude planting attachments for lister, but include fertilizer attachments for plain drills, disc furrowing, grass waterway and check row plant and grass seed attachments — Value only
3331117100	6385	Total, planting, seeding, fertilizing machinery (Sum of item codes 6321–6384) — Value only
		HARVESTING MACHINERY
3331119101	6511	Combines (harvester-threshers), grain types only (self-propelled and pull type)
3331119111	6521	Small grain header for combines, all sizes
3331119121	6531	Corn heads, all sizes
3331119131	6541	Other grain type combines
3331119141	6563	Field forage harvesters Shear bar, self-propelled type and pull type (basic machines)
3331119151	6567	Attachments for shear bar type forage harvesters
3331119161	6570	Flail type (horizontal knives or vertical freeswinging knives or hammers) including discharge spouts
3331119171	6577	Other harvesting machinery, including cane harvesting equipment, potato diggers and picker-shellers
3331119181	6583	Attachments for harvesting machinery (examples: platform and seeder, reel, straw spreaders, load levelers, weed stripper, grate unit, knife grinders, stalk walkers) — Value only
3331119100	6585	Total, harvesting machinery (Sum of item codes 6511–6583) — Value only

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		<b>HAYING MACHINERY</b>
333111A101	6613	Mowers, cutter-bar type (Report mower-conditioners under code 6623 all types) (including drum and disk)
333111A111	6623	Mower-conditioners and windrowers with conditioner auger and draper type (pull type and self-propelled)
333111A121	6631	Rakes, side delivery, cylinder type, finger wheel type, rotary, tedder and combination rotary/tedder type
333111A131	6656	Hay balers, field type, and bale throwing attachments
333111A141	6682	Other haying machinery (except as specified above)
333111A151	6683	Other attachments for haying machinery (example: stripper, bale chute, and knife attachments) (exclude attachments specified above)
333111A100	6685	Total, haying machinery (Sum of item codes 6613–6683) – Value only
		<b>PRIMARY TILLAGE EQUIPMENT – PLOWS</b>
333111E101	6715	Sub-soilers (deep tillage), wide shank
333111E109	6717	Terracing and ditching plows
333111E111	6719	Chisel plows, deep tillage (chisel or sweep type)
333111E119	6721	Pull type Mounted
333111E121	6725	Other plows, except snow plows and plows specified above
333111E159	6727	Middlebusters and disc bedders (excluding planting attachments)
333111E131	6729	Attachments for plows (coulters, jointers, root cutters, sub-soilers, fertilizer distributors, etc.) (exclude lister planting attachments) – Value only
333111E139	6731	Plowshares (pounds of plowshares)
XXX	6735	Total, primary tillage equipment (Sum of item codes 6715–6731) – Value only
		<b>SECONDARY TILLAGE EQUIPMENT - HARROWS, ROLLERS, PULVERIZERS, AND SIMILAR EQUIPMENT</b>
333111E141	6740	Spike-tooth harrow sections and spring-tooth and tine-tooth harrow sections
333111E149	6742	Disc harrows, single, tandem, and offset
333111E151	6744	Combination tillage equipment, roller/harrows, disc or coulter/field cultivators, disc or coulter/spring tooth
333111E158	6746	Blade terracers or scrapers (farm size)
333111E161	6748	Land levelers
333111E169	6750	Other harrows, rollers, pulverizers, and similar equipment (except products specified above)
333111E171	6752	Attachments (examples: folding extension, furrow fillers, drawbars, adapter hitches, gauge wheels, and drawbar attachments) – Value only
XXX	6753	Total harrows, rollers, pulverizers, and similar equipment (Sum of item codes 6740 – 6752) - Value only

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FORM MA333A		
Product code	Item code	Item description
<b>CULTIVATORS AND WEEDERS SECONDARY TILLAGE</b>		
333111E179	6770	Corn- and cotton-type cultivators (shank and sweep types, front and rear mounted)
333111E181	6780	Rotary cultivators, ground and power driven
333111E189	6790	Field cultivators
333111E191	6794	Other cultivators and weeders, including tool bars (basic units)
333111E199	6795	Attachments for cultivators and weeders (front mounting frame, disc weeders, rear section, and drawbars) – Value only
XXX	6796	Total, cultivators and weeders (Sum of item codes 6770–6795) – Value only
<b>ALL OTHER FARM MACHINERY AND EQUIPMENT</b>		
Machines For Preparing Crops For Market Or For Use		
333111G112	6811	Feed grinders and crushers, power
333111G114	6813	Feed mixers (farm size), stationary and portable
333111G116	6814	Combination grinder-mixers
Driers (grain, hay, and seed)		
333111G118	6817	Heated air crop driers
333111G122	6819	Crop drying fans only (over 15,000 c.f.m. at approximately one inch pressure)
*333111G125	6822	Other machines for preparing crops for market or for use including cotton ginning machinery (except those specified above)
333111G126	6824	Attachments – Value only
XXX	6825	Total, machines for preparing crops (Sum of item codes 6811–6824) – Value only
<b>Farm Poultry Equipment</b>		
333111G128	6831	Incubators (report total egg capacity of all incubators shipped)
333111G132	6834	Brooders, floor and hanging, gas, electric, oil, coal, wood and battery
333111G134	6836	Nests and cages
333111G136	6838	Poultry feeders (trough, hanging, and mechanical) and waterers (except turkey feeders and waterers),
333111G138	6844	Other farm poultry equipment, including turkey waterers, mechanized egg graders, egg washers
333111G142	6845	Attachments for farm poultry equipment – Value only
XXX	6846	Total, farm poultry equipment (Sum of item codes 6831–6845) – Value only

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FORM MA333A		
Product code	Item code	Item description
		Other Barn And Barnyard Equipment
333111G156	6851	Silo and grain bin unloaders, forage and grain including sealed storage unloaders (farm type)
		Cattle and dairy barn equipment
333111G158	6852	Feeding equipment
333111G162	6853	Handling equipment
333111G164	6855	Water equipment
333111G166	6856	Other barn and barnyard equipment. (Do not include construction items such as partitions, doors, windows, pillars, etc.) (Excludes equipment specified above.)
333111G168	6857	Attachments – Value only
XXX	6858	Total, barn and barnyard equipment (Sum of item codes 6851–6857) – Value only
		Irrigation Systems
		Self-propelled irrigation systems
333111G188	6860	Center-pivot (report quantity in equivalent systems)
333111G192	6861	All other systems using 100 feet flexible hose feeder line and over
XXX	6865	Total, Self-propelled Irrigation Systems (Sum of item codes 6860 and 6861) – Value only
		Hog Equipment
333111G144	6870	Feeding equipment
333111G146	6871	Handling equipment
333111G148	6872	Watering equipment
333111G152	6874	Other hog equipment (except equipment specified above)
333111G154	6875	Attachments for hog equipment – Value only
XXX	6878	Total, hog equipment (Sum of item codes 6870–6875) – Value only
		Farm Wagons And Other Farm Transportation Equipment
333111G172	6880	Wagons (chassis only) and trailer gears (exclude motor trucks) 4 wheel
		Boxes and racks for mounting on wagons, and trailer gears
333111G174	6881	Manual unloading or dump
333111G176	6882	Gravity unloading (grain type only)
333111G178	6883	Power unloading
333111G182	6884	Boxes with integral running gear, grain and forage types



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FORM MA333A		
Product code	Item code	Item description
		Farm Wagons And Other Farm Transportation Equipment — Continued
333111G184	6885	Other farm transportation equipment (except equipment specified above)
333111G186	6887	Attachments (example, inclined conveyor) — Value only
XXX	6888	Total, farm wagons, and other farm transportation equipment (Sum of item codes 6880–6887) — Value only
		Stalk Shredders And Cutters Or Rotary Mowers (PTO)
333111G102	6891	Flail type (without spout)
		Horizontal-blade type
333111G104	6893	66 inches cutting width and under
333111G106	6894	Over 66 inches and up to 100 inches cutting width
333111G108	6895	Over 100 inches cutting width
XXX	6898	Total, stalk-shredders and cutters or rotary mowers (pto) (Sum of item codes 6891–6895) — Value only
		COMMERCIAL TURF AND GROUNDS CARE EQUIPMENT, INCLUDING PARTS AND ATTACHMENTS
		Commercial Turf And Grounds Mowing Equipment
333111J101	8101	Powered nonriding mowers
333111J106	8103	Riding reel-type turf mowers (including greens mowers)
333111J111	8107	Riding rotary turf mowers
333111J116	8109	Gang rotary cutting units, reel and rotary (individual sections)
*333111J123	8114	Other mowing equipment, including flail mower cutting units, including gang
333111J131	8117	Parts for commercial turf and grounds mowing equipment — Value only
333111J136	8118	Attachments for commercial turf and grounds mowing equipment — Value only
XXX	8119	Total, commercial turf and grounds mowing equipment (Sum of item codes 8101–8118) — Value only
		Other Commercial Turf And Grounds Care Equipment (except mowing equipment)
333111J146	8125	Seeders, spreaders, and top dresser attachments
333111J151	8127	Aerators, spikers, and pluggers
333111J156	8129	Dethatchers
333111J161	8131	Power brooms, blowers, vacuums, and sweepers
*333111J175	8137	Other commercial turf and grounds care equipment (including trap rakes, transport trailers, turf tractors and trucks, sod cutters and sod harvesters, and irrigation systems (except agricultural and residential)
333111J176	8141	Parts for other commercial turf and ground care equipment (except mowing equipment) — Value only

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## REFERENCE LIST – Continued

FORM MA333A		
Product code	Item code	Item description
		Other Commercial Turf And Grounds Care Equipment (except mowing equipment) – Continued
333111J181	8143	Attachments for other commercial turf and ground care equipment (except mowing equipment) – Value only
XXX	8145	Total, other commercial turf and grounds care equipment (except mowing equipment) (Sum of item codes 8125–8143) – Value only
		<b>CONSUMER NONRIDING LAWN, GARDEN, AND SNOW EQUIPMENT</b>
		Lawnmowers
3331121104	8202	Push type: reel (powered and nonpowered) and rotary – gas powered
3331121106	8212	Rotary: self-propelled, gas powered
3331121121	8215	Electric, all types, including battery powered
3331121126	8220	Rotary garden (motor) tillers
3331121131	8230	2–wheel tractors, walking type (except rotary tillers)
		Snow throwers (snow blower) (except attachment type)
3331121136	8241	Single stage
3331121141	8242	Dual stage
		Powered lawn edgers/trimmers
3331121146	8250	Fixed blade
3331121151	8252	Other than fixed blades
3331121156	8261	Shredders and shredder-grinders
3331121161	8263	Yard vacuums and blowers
3331121166	8265	Other consumer nonriding lawn, garden, and snow equipment
XXX	8266	Total, consumer nonriding lawn, garden, and snow equipment (Sum of item codes 8202–8265) – Value only
		<b>CONSUMER RIDING LAWN, GARDEN, AND SNOW EQUIPMENT</b>
		Lawn tractors and riding mowers
*3331123108	8273	Front engine
*3331123125	8276	Rear engine

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## REFERENCE LIST — Continued

FORM MA333A		
Product code	Item code	Item description
		CONSUMER RIDING LAWN, GARDEN, AND SNOW EQUIPMENT— Continued  Lawn tractors and riding mowers— Continued  Garden tractors Under 16.0 hp (under 12 kW) 16.0 hp and over (12 kW and over)
3331123141 3331123155	8280 8281	
3331123171	8285	Other consumer riding lawn, garden, and snow equipment
XXX	8289	Total, consumer riding lawn, garden, and snow equipment (Sum of item codes 8273—8285) Value— only
		PARTS AND ATTACHMENTS FOR CONSUMER RIDING AND NONRIDING LAWN, GARDEN, AND SNOW EQUIPMENT  Parts and Attachments For Consumer Nonriding Lawn, Garden, and Snow Equipment
3331127101 3331127111	8301 8303	Parts Attachments
XXX	8307	Total, parts and attachments for consumer nonriding lawn, garden, and snow equipment (Sum of item codes 8301—8303) — Value only
		Parts and Attachments For Consumer Riding Lawn, Garden, and Snow Equipment  Parts For tractors and riding mowers For other equipment (except tractors and riding mowers)
3331127121 3331127131	8311 8313	
3331127141 3331127151 3331127161 3331127171 3331127181 3331127191	8325 8327 8329 8331 8333 8335	Attachments Rotary, mower decks— Value only Rotary tiller attachments— Value only Blades, dozer— Value only Snow throwers— Value only Carts and wagons— Value only All other attachments— Value only
XXX	8339	Total, parts and attachments for consumer riding lawn, garden, and snow equipment (Sum of item codes 8311—8335) — Value Only
		FARM ELEVATORS  Farm conveyors, elevators, and stackers Single and double chain Auger type
*3339228653 *3339228655	8653 8655	
*3339228657	8657	Other farm elevators, conveyors, and stackers
*3339228600	8659	Total farm conveyors, elevators, and stackers (Sum of item codes 8653—8657)

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## REFERENCE LIST – Continued

FORM MA333A		
Product code	Item code	Item description
		PARTS FOR FARM MACHINERY, FOR SALE SEPARATELY
		Parts for farm-type wheel tractors:
*333111C110	9910	Parts for farm-type wheel tractors (excluding operator cabs and parts for tractor chassis shipped as part of front engine design tractor shovel loader/backhoes)— Value only
		Other parts for farm machinery, including operator cabs (excluding parts for wheel tractors) ( Report Value Only):
*333111C221	9921	Parts for farm dairy machines and equipment— Value only
*333111C223	9923	Parts for sprayers and dusters— Value only
*333111C225	9925	Parts for farm blowers— Value only
*333111C227	9927	Parts for planting, seeding, and fertilizing machinery— Value only
*333111C229	9929	Parts for harvesting machinery— Value only
*333111C22A	9931	Parts for haying machinery— Value only
*333111C22B	9933	Parts for plows excluding plowshares— Value only
*333111C22D	9935	Parts for harrows, rollers, pulverizers, and similar equipment— Value only
*333111C22E	9937	Parts for cultivators and weeders— Value only
*333111C22G	9939	Parts for machines preparing crops— Value only
*333111C22H	9941	Parts for farm poultry equipment— Value only
*333111C22J	9943	Parts for other barnyard equipment— Value only
*333111C22K	9945	Parts for self-propelled irrigation systems (sold separately)— Value only
*333111C22L	9947	Parts for hog equipment— Value only
*333111C22M	9949	Parts for farm wagons and other farm transportation equipment, including operator cabs for farm tractors— Value only
*333111C22N	9951	Parts for stalk shredders and cutters or rotary mowers (PTO)— Value only
*333111C220	9959	Total other parts for farm machinery, including operator cabs (excluding for wheel tractors) (Sum of item codes 9921—9951)

\*New for 2007