

FARMER'S POCKET LEDGER

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Swedesboro, N. J.

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THE FARMER'S POCKET LEDGER

(Improved Edition)

THIS miniature ledger is presented in the hope that it will be an aid in keeping a daily record of your farming operations. Pages 21 to 52 are especially made up for this purpose. In addition, there are several pages which contain special information of value and oftentimes of immediate need. This information is found on pages 2, 4, 8, 10, 14, 18, 54, 58, 62 and 66. The remainder of the pages briefly describe some of the more important implements in the John Deere full line.

John Deere goods are handled by dealers in almost every town. If you are in need of any farm machinery, call on the John Deere dealer in your town and "see before you buy." John Deere farm implements have been the leaders for nearly a century, and they were never better known nor more widely used than they are today.

John Deere Branches and Distributing Houses in all Important Trading Centers. John Deere dealers everywhere.

USEFUL INFORMATION

A gallon of water equals 231 cubic inches and weighs 8-1/3 pounds. A cubic foot of water equals 7½ gallons and weighs 62½ pounds.

Water expands 1/11 of its bulk in freezing.

One cubic inch of water evaporates into a cubic foot of steam. To evaporate one cubic foot of water requires the consumption of 7½ pounds of coal, or about one pound of coal to a gallon of water. Each nominal horse power of a boiler requires 30 to 35 pounds of water per hour.

One inch of rainfall means 100 tons of water on every acre.

A column of water 2-3/10 feet high equals one pound per square inch pressure. To find the pressure per square inch of a column of water, multiply the height of the column in feet by the decimal .434.

Doubling the diameter of a pipe or cylindrical vessel increases its capacity four times.

Double-riveting is from 16 to 20 per cent stronger than single-riveting.

To find the circumference of a circle, multiply the diameter by 3.1416.

To find the diameter of a circle, multiply the circumference by .31831.

To find the area of a circle, multiply the square of the diameter by .7854.

To find the sides of an equal square, multiply the diameter by .8862.

To find the capacity of cylindrical tanks, square the diameter in inches, multiply by the height in inches, and this product by the decimal .34. Point off four decimals and you have the capacity in gallons.

To find the contents of a pile of cord wood, multiply the length, width and height together and divide the product by 128. This will give you the number of cords.

AMOUNT OF PAINT REQUIRED FOR A GIVEN SURFACE

It is impossible to give a rule that will apply in all cases, as the amount varies with the kind and thickness of the paint, the kind of wood or other material to which it is applied, the age of the surface, etc. The following is an approximate rule: Divide the number of square feet of surface by 200. The result will be the number of gallons of liquid paint required to give two coats; or divide by 18 and the result will be the number of pounds of pure ground white lead required to give three coats.

U. S. GOVERNMENT LAND MEASURE

A township—36 sections, each a mile square.

A section—640 acres.

A quarter section—Half a mile square, 160 acres.

An eighth section, half a mile long, north and south, and a quarter of a mile wide—80 acres.

A sixteenth section, a quarter of a mile square—40 acres.

The sections are all numbered 1 to 36, commencing at the northeast corner.

The sections are divided into quarters, which are named by the cardinal points. The quarters are divided in the same way. The description of a forty-acre lot would read: The south half of the west half of the southwest quarter of section 1 in township 24, north of range 7 west, or, as the case might be, and sometimes will fall short and sometimes overrun the number of acres it is supposed to contain.

NOTE.—In most of the Western states, where all of the land was laid out by the Government, all titles, except in city lots, are passed by description, as under the Government survey, and there a square of 6 miles, or 36 square miles, make one township.

JOHN DEERE STUBBLE PLOW—NA SERIES

Especially suitable for work in old ground which is highly cultivated. Abrupt turn of moldboard pulverizes soil thoroughly. The "NA" is made of the best material for the purpose. Scours perfectly, covers all weeds and trash, and leaves soil in right condition for good seed bed. You can get the size you want.



JOHN DEERE GENERAL-PURPOSE PLOW—GPN SERIES

Shape of moldboard and share adapts this plow for thorough work and light draft in clover, timothy or blue-grass sod, or in old ground. Good also for difficult plowing in heavy, sticky soils. High-quality steel construction. Sizes: 12-, 14- and 16-inch.



JOHN DEERE GENERAL-PURPOSE PLOW—MP SERIES

Widely-used turf and stubble series, adaptable to variety of soils. Moldboard sheds, turns turf completely over and pulverizes old ground thoroughly. Furnished with steel share and landside for loam soil; chilled share and landside for gritty, gravelly soil. Either hard steel or crucible shares. Chilled shares have such variations for proper penetration in different soils. Steel and chilled shares and landsides interchangeable.



JOHN DEERE BLACK-LAND PLOW—BR SERIES

Made especially for stiff, black waxy soil. Extra strong construction throughout. Share has long, sharp point and correct suction, insuring good penetration and steady and light-running. Moldboard shaped properly for good shedding. Extra strong steel frog and high curved, double-beaded steel beam.



JOHN DEERE MIXED-LAND PLOW—B SERIES

Sheds cleanly, turns the furrow slice properly and makes a good seed bed. Moldboard of hardened, soft-center steel is double-shinned to resist wear. Shares in variety to suit different soils can be furnished. High-quality material throughout. Sizes: 8-, 9-, 10-, 12- and 14-inch.



NUMBER OF POUNDS TO THE BUSHEL

Alfalfa.....	60	Hair (Plastering).....	8
Apples (Green).....	56	Hemp Seed.....	44
Apples (Dried).....	24	Hubam Seed.....	60
Barley.....	48	Hungarian Grass Seed.....	45
Beans (White).....	60	Kaffir Corn.....	56
Beans (Castor).....	46	Lime.....	80
Beans (Soy).....	60	Malt.....	38
Bran.....	20	Millet Seed, Common.....	50
Buckwheat.....	52	Millet, Hungarian.....	48
Blue-Grass Seed.....	14	Oats.....	32
Clover Seed.....	60	Onions.....	57
Clover (Sweet).....	60	Orchard Grass.....	14
Corn (Shelled).....	56	Peaches (Dried).....	33
Corn (in Ear).....	70	Peas.....	60
Corn (Pop).....	70	Potatoes.....	60
Corn (Kaffir).....	56	Potatoes (Sweet).....	55
Corn Meal.....	48	Red Top Seed.....	14
Cranberries.....	33	Rye.....	56
Coal, Hard.....	80	Salt.....	65
Coal, Char.....	22	Timothy Seed.....	45
Coke.....	40	Turnips.....	55
Flax Seed.....	56	Wheat.....	60

CISTERN CAPACITY

A cistern ten feet in diameter and nine feet deep will hold 168 barrels.

A cistern five feet in diameter will hold five and two-thirds barrels for every foot in depth.

A cistern six feet in diameter will hold six and three-fourths barrels for every foot in depth.

A cistern eight feet in diameter will hold nearly twelve barrels for every foot in depth.

A cistern nine feet in diameter will hold fifteen and one-half barrels for every foot in depth.

A cistern ten feet in diameter will hold eighteen and three-eighths barrels for every foot in depth.

TIME AT WHICH MONEY DOUBLES AT INTEREST

Rate Per Cent.	Simple Interest	Compound Interest
10	10 years.....	7 years, 100 days
9	11 years, 40 days.....	8 years, 16 days
8	12½ years.....	9 years, 2 days
7	14 years, 104 days.....	10 years, 89 days
6	16 years, 8 months.....	11 years, 327 days
5	20 years.....	15 years, 75 days
4½	22 years, 81 days.....	15 years, 273 days
4	25 years.....	17 years, 246 days
3½	28 years, 208 days.....	20 years, 54 days
3	33 years, 4 months.....	23 years, 164 days
2½	40 years.....	28 years, 26 days
2	50 years.....	35 years, 1 day

JOHN DEERE MIDDLEBREAKER

Extra length of beam, in connection with perfect balance, assures good penetration and steady running. Bottom shaped properly for good work in throwing up medium beds in blackland and other heavy soils. Sheds clean and pulls light. Share one-third thicker than usual. Extra heavy frog. Large adjustable steel root knife. High curved steel beam.



JOHN DEERE-SYRACUSE 1341-1441 SERIES WALKING PLOWS

Built strong; bottom parts designed for sulky and gang use as well. Interchange of chilled and steel wearing parts makes these plows adaptable for any soil conditions. Bottoms of correct shape for general-purpose work. Good penetration; steady - running; durable; heavy malleable frog; rolled foot beam of standard John Deere type. 1341 is left-hand; 1441 is right-hand plow.



JOHN DEERE-SYRACUSE 1371-1471 SERIES SLAT MOLDBOARD CHILLED PLOWS

The slat moldboard construction makes them invaluable in sticky soil. They not only shed satisfactorily in wet conditions, but also turn remarkably well. The slats have the same advantage over a solid moldboard in sticky land as the spading fork has over a solid blade spade. Although the "slat" type is designed especially for use in sticky land, it also does good work in ordinary soil conditions. 1371 is left-hand; 1471 is right-hand plow. This series can be furnished with solid chilled moldboard.



JOHN DEERE-SYRACUSE 1361-1461 SERIES SLOPING LANDSIDE CHILLED PLOWS

They do uniformly good work in gritty or gravelly soils, turf or stubble. Sloping landside of white iron; has a rib along the lower edge which holds the plow to its work, preventing the furrow wall from breaking or caving in. Beams are of steel, guaranteed not to bend or break. Share and landside are chilled extra deep by special Syracuse process. Equipped with full-horn share—provides a new cutting edge on shin with each new share. 1361 is left-hand; 1461 is right-hand plow.

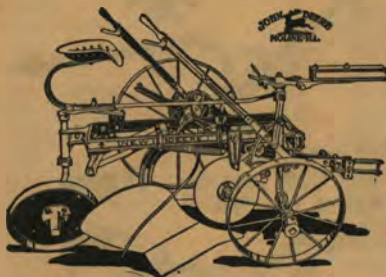


JOHN DEERE - SYRACUSE NO. 821 SERIES TRUSS STEEL - BEAM HILLSIDE PLOWS

Ample throat room and close-fitting joints prevent clogging. Choice of white iron or tempered steel moldboards adapts them to a variety of soils. Steel and malleable iron give maximum strength and unusual light weight. Two-piece truss-style beam will not bend or break. Renewable shoe protects standard and serves as landside.



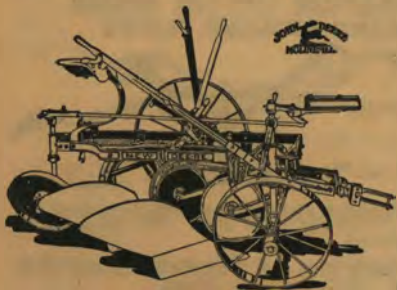
NEW DEERE SULKY PLOW



Used by more farmers than any other plow of its type. Its John Deere steel or Syracuse chilled bottoms are famous for scouring, long wear and good seed beds. Quick-detachable share—loosen one nut to remove share; tighten the same nut and share is on tight. Pulls light because weight is properly distributed and all-wheel-carried—no bottom or landside friction. Powerful foot lift—a boy can operate it. Special steel beam is

hard and stiff. Frame of hard I-beam steel is heavy and strong. Lock washers keep nuts from coming off.

NEW DEERE GANG PLOW



Leading plow of its type for thirty years. John Deere or Syracuse bottoms—a type for every soil. Quick-detachable shares. Pulls light because properly distributed weight is all-wheel-carried—no bottom or landside friction. Powerful foot lift, with auxiliary hand lift lever—a small boy can operate this plow. Double-bail construction—bottoms enter ground point first and maintain uniform depth. Locking device can be set so

that plow floats in frame and rises automatically when plow strikes obstruction. Built of best material throughout—lasts much longer than ordinary plow.

JOHN DEERE NO. 37 STAG SULKY PLOW



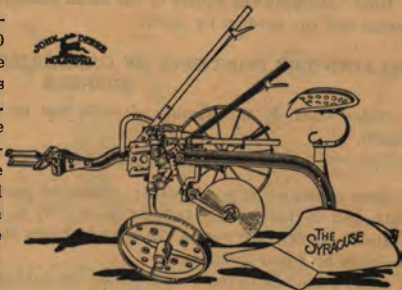
Unusually simple and strong. Frameless. Wheel brackets riveted directly to beam. Beam of special hard and tough John Deere steel will withstand severest conditions. All-wheel-carried—pulls light. Rolling landside rolls rear weight.

Bottoms in type to suit your soil. Quick-detachable share. Hitch-controlled—turns easily to right or left. Easy, simple

lever control. This plow can be equipped with plow bottom, middlebreaking bottom or sweep.

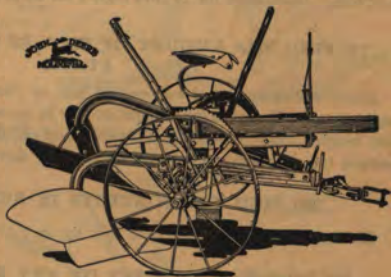
JOHN DEERE-SYRACUSE NO. 210 SULKY PLOW

The 210 is the lightest-pulling plow of its type. The 210 pulls easiest because of the rolling landside which makes it an all-wheel-carried plow. Can be used with either the Syracuse or John Deere clean-shedding bottoms. Suitable for any soil. Runs level and plows at uniform depth even when turning corners. The front furrow caster wheel, controlled by a lever, governs the plow on the turns. Driver's hands are free except when releasing latch at turns. Right-hand or left-hand, with either rolling coulter or jointer.



JOHN DEERE NO. 4 TWO-WAY PLOW

Ideal for plowing hillsides, irregular fields or irrigated land. Leaves no dead furrows or back ridges. Unnecessary to lay out lands. You can begin at one side of the field and plow back and forth until you reach the other side, turning all the soil one way. Patented features make this the easiest plow to control you ever saw. Get on the seat and try it. Sizes: 12-, 14- and 16-inch.



JOHN DEERE STEEL GANG PLOW

Made especially for Pacific-Coast and Inland-Empire territories. Construction is simple; there is nothing to get out of order. All-steel, securely braced, it is extraordinarily strong. Wheels are large and axles heavy, insuring even running and little wear. Three levers, each in easy reach of operator, whether riding or walking. Two-bottom and three-bottom sizes. Rear wheel and seat can be furnished as extras.



TO FIND THE CONTENTS OF BARRELS AND CASKS IN GALLONS

Rule—Multiply the square of the mean diameter in inches by the depth in inches and the product by .0034.

TO FIND THE CONTENTS OF GRANARIES AND WAGON BEDS IN BUSHELS

Rule—Multiply the number of cubic feet by .8 (for greater accuracy, by .8036).

TO MEASURE CORN IN CRIBS

Corn in the ear of good quality, measured when settled, will hold out at $2\frac{1}{2}$ cubic feet to the bushel. Inferior quality, $2\frac{3}{4}$ to $2\frac{1}{2}$ cubic feet.

Rule—At $2\frac{1}{2}$ cubic feet to the bushel, divide the cubic feet in crib by $2\frac{1}{2}$, or multiply by 4 and divide by 9.

At $2\frac{3}{4}$ cubic feet to the bushel, divide the cubic feet in crib by $2\frac{3}{4}$, or multiply by 8 and divide by 19.

At $2\frac{1}{2}$ cubic feet to the bushel, divide the cubic feet in crib by $2\frac{1}{2}$, or multiply by 2 and divide by 5.

TO FIND NUMBER OF BOARD FEET IN A LOG

Subtract 4 feet from the diameter and square the remainder. The result will be the number of board feet in a 16-foot log. Add $\frac{1}{4}$ for 18-foot logs, $\frac{1}{2}$ for 20-foot logs. Subtract $\frac{1}{4}$ for 14-foot logs, $\frac{1}{2}$ for 12-foot logs.

TO FIND THE AMOUNT OF HAY, IN TONS, IN A MOW OR STACK

About 500 cubic feet of well-settled hay, or about 700 of new-mown hay, will make a ton. To estimate amount of hay in mow—ten cubic yards of meadow hay weigh a ton. When hay is taken out of old stacks, 8 or 9 cubic yards will make a ton. Eleven or twelve cubic yards of clover, when dry, will make a ton.

TO FIND THE CONTENTS IN BUSHELS OF A BIN

Multiply the number of cubic feet by .8.

TO FIND THE INTEREST ON ANY SUM FOR ANY TIME

Point off two places from the right of the principal and multiply it by the number of months. One-half the result is the interest at 6 per cent. Deduct one-sixth for 5 per cent; one-third for 4 per cent; add one-sixth for 7 per cent; one-third for 8 per cent, etc.

TO FIND THE VALUE OF ARTICLES SOLD BY THE TON

Multiply the number of pounds by the price per ton, point off three places and divide by 2.

ACREAGE PER MILE OF VARIOUS WIDTHS

Width	Acres	Width	Acres
1 foot.....	0.121	15 feet.....	1.815
5 feet.....	0.605	16 feet.....	1.936
8 feet.....	0.968	18 feet.....	2.178
10 feet.....	1.21	20 feet.....	2.42
12 feet.....	1.452	24 feet.....	2.904
14 feet.....	1.694	25 feet.....	3.025

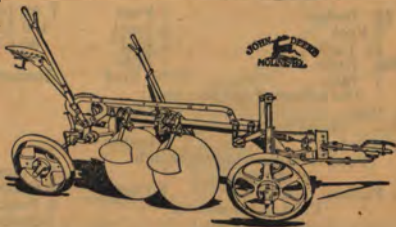
JOHN DEERE NOS. 62-A AND 63-A DISK PLOWS

No. 62-A is a two-disk plow, cutting nine inches per disk; width of cut per disk quickly convertible to eight inches.

No. 63-A is a three-disk plow, cutting nine inches per disk; width of cut per disk quickly convertible to eight inches; can be quickly reduced to two-disk plow, cutting either nine or eight inches per disk. Change in cut per disk and number of disks made by simply loosening clamps and shifting on main frame bar.

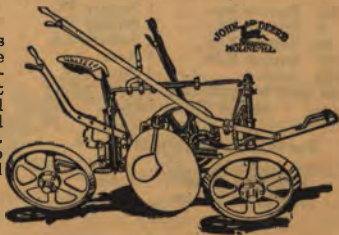
These plows have greater

clearance than usual because main frame bar is above disks. Hitch adjustable to any number of horses. Fully hitch-controlled.



JOHN DEERE SINGLE-DISK PLOW

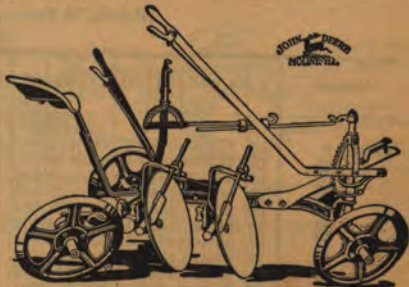
This plow cuts a clean furrow, turns well and thoroughly pulverizes the soil; adjustable scrapers of best design. Does not need excessive weight for penetration—weight of driver and pull of team hold it in ground. Rigid construction—no sagging of frame. Double setting of disks adapts plow to light or heavy soils. High-speed chilled bearings.



JOHN DEERE PONY DISK PLOW

Built for use with small mules or light horses. A little giant for work. Has great penetrating and pulverizing power because disks are set at proper angle and weight of operator and pull of team act together to keep the plow down to its work. Easy and positive lever control. Two settings of disks; will plow any kind of soil. Long-lived disk bearings. Furnished in one- and two-disk sizes.

Width of cut: 8, 9 or 10 inches. Indestructible steel eveners.



JOHN DEERE TRACTOR GRUB BREAKER

This tractor grub breaker is built to stand severe service. Twenty-inch John Deere bottom cuts and turns difficult grub or bog land, any depth up to 10 inches. Share point is protected by being mortised into the heel of an extra heavy cutter. Heavy, solid steel beam will not break or bend. Simply pull the trip rope, and the strong, positive power lift raises the bottom



COMMON MEASURES

Long Measure

12 Inches.....	1 Foot
3 Feet.....	1 Yard
5½ Yards.....	1 Rod
320 Rods.....	1 Mile
1 Mile.....	5280 Feet
The following are also used:	
1 Size.....	1-3 Inch (Used by Shoemaker.)
1 Hand.....	4 Inches (Used in measuring the height of horses.)
1 Fathom.....	6 Feet (Used in measuring depths at sea.)
1 Knot.....	1.15 Miles (Used in measuring distance at sea.)

Square Measure

44 Square Ins.....	1 Square Ft.
9 Square Ft.....	1 Square Yd.
30½ Square Yds.....	1 Square Rd.
160 Square Rds.....	1 Acre
640 Acres.....	1 Square M.
An acre is equal to a square whose side is 208.71 feet.	

Surveyor's Square Measure.

10,000 Sq. Links.....	1 Sq. Chain
10 Square Chains....	1 Acre
10 Chains Square....	10 Acres

Surveyor's Linear Measure

7.92 Inches.....	1 Link
100 Links.....	1 Chain
80 Chains.....	1 Mile

Gunter's Chain is the unit and is 66 feet long.

Dry Measure.

2 Pints.....	1 Quart
8 Quarts.....	1 Peck
4 Pecks.....	1 Bushel
1 Bushel contains 2150.42 cubic inches or approximately 1½ cubic feet.	

Liquid Measure

4 Gills.....	1 Pint
2 Pints.....	1 Quart
4 Quarts.....	1 Gallon
1 Gallon contains 231 cubic inches.	
1 Cubic Ft. equals 7½ gallons.	

Cubic Measure.

1728 Cubic Inches.....	1 Cubic Ft.
27 Cubic Feet.....	1 Cubic Yd.
128 Cubic Feet.....	1 Cord

CAPACITY OF CORN CRIBS. (Dry Corn.)

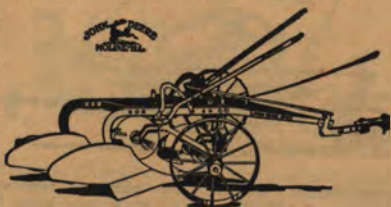
(Height, 10 Feet.)

Length	½	1	12	14	16	18	20	22	24	28	32	36	48	64
Width 6	13	27	320	373	427	480	533	587	640	747	853	960	1280	1707
6½	13	28	333	389	444	500	556	611	667	778	889	1000	1333	1777
6¾	14	29	347	404	462	520	578	636	693	809	924	1040	1387	1849
6½	15	30	360	420	480	540	600	660	720	840	960	1080	1440	1920
7	16	31	373	436	498	560	622	684	747	871	996	1120	1493	1991
7½	16	32	387	451	516	580	644	709	773	902	1031	1160	1547	2062
7½	17	33	400	467	533	600	667	733	800	933	1067	1200	1600	2133
7½	17	34	413	482	551	620	689	758	827	964	1102	1240	1653	2204
8	18	36	427	498	569	640	711	782	853	996	1138	1280	1707	2276
8½	19	38	453	529	604	680	756	831	907	1058	1209	1360	1813	2418
9	20	40	480	560	640	720	800	880	960	1120	1280	1440	1920	2560
10	22	44	533	622	711	800	889	978	1067	1244	1422	1600	2133	2844

The length is found in top line, the width in left-hand column—the height being taken at 10 ft. Thus, a crib 24 ft. long, 7½ ft. wide and 10 ft. high, will hold 800 bushels of ear corn, reckoning 2½ cubic feet to hold a bushel. If not 10 ft. high, multiply by the given height and cut off right-hand figure. If above crib were only 7 ft. high, it would hold 800 x 7, equals 560 (0 bu., etc.). The same space will hold 1-4/5 times as much grain as ear corn. Thus, a crib that holds 800 bushels of ear corn will hold 800 x 1-4/5 equals 1440 bushels of grain.

JOHN DEERE NO. 40 TRACTOR PLOW The "40" Fits the Fordson

The only built-for-the-Fordson plow with the great draft-reducing combination of self-adjusting hitch and rolling landside. The hitch is always automatically right at all depths; the bottoms always run true and level, and all of the weight is wheel-carried; therefore, the "40" pulls exceptionally light. Special steel makes this light-weight plow a giant in strength. Beams guaranteed not to bend or break. Simple, positive power lift.



JOHN DEERE NO. 45 TRACTOR PLOW

A light-weight, light-draft, and strong plow built for use with any "two-plow" tractor. Beams of special hard and tough John Deere steel are guaranteed not to bend or break. Frame connections hot-riveted. John Deere steel or Syracuse bottoms to suit your soil. Quick-detachable shares. Simple, positive power lift—plow rises high and level on all three wheels. Hitch has wide range of adjustment up and down and to the side. For any farmer operating a "two-plow" tractor, the "45" is a mighty satisfactory plow.



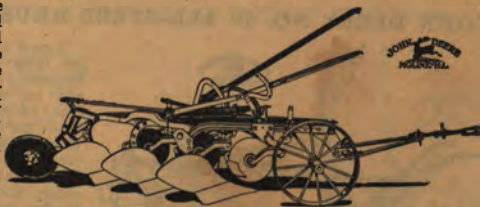
JOHN DEERE NO. 45-A TRACTOR PLOW

The ideal moldboard plow for use with small tractors in plowing orchards. Only 26 inches high when plowing 6 inches deep. Only 37 inches wide. Gets under the low limbs up close to the row. Hitch can be offset so that plow works up close to trees, throwing either to or from the row, while tractor runs out, free from interference with limbs



JOHN DEERE NO. 5 TRACTOR PLOW

Popular for use with medium-sized tractors. Equipped with the John Deere steel or Syracuse chilled bottoms, famous for good work and long wear. Quick-detachable shares. Beams guaranteed not to bend or break. Strong braces and rigid frame connections maintain alignment of bottoms. Land wheel is set back—this plow works at uniform depth in uneven ground. Stiff hitch, adjustable to any make of tractor. Strong, simple and positive power lift raises plow high and level.



JOHN DEERE NO. 26 ORCHARD TRACTOR DISK PLOW



A very popular plow. Unusually low and narrow — gets under the low limbs up close to row without harming trunks or branches. Only 26 inches high when plowing 6 inches deep; only 37 inches wide. Hitch permits setting plow out to right or left of tractor for work close to row. Hitch is stiff — a

great feature — tends to keep plow in furrow when offset, and permits short turns at ends of field. Floating rear end keeps disks from injuring large roots.

JOHN DEERE NO. 82 TRACTOR DISK PLOW



Built especially for the Fordson. Penetrates well because weight of tractor holds front end down, and weight of rear wheels and overhang design of rear frame hold rear end down. Pulls light because front weight is carried on tractor and rear weight rolls cart-like on two rear wheels. Great clearance because frame is above disks—not at the side. Power lift—a big advantage over hand-lift plows. Plow lifts high. Cut quickly convertible to 8, 9 or 10 inches per disk by simple, quick clamp adjustment. Great strength —

none of the complications common to ordinary disk plows.

JOHN DEERE NOS. 16, 17 AND 18 TRACTOR DISK PLOWS



Quickly convertible in size, 10- or 8-inch cut per disk, by means of clamp adjustments. Unusual clearance because frame is above disks instead of at side—a big advantage in trashy conditions. Power lift simple and effective — plow lifts level from all three wheels. Clean-faced disks. No hubs or nobbs to interfere with good work. Disks designed for powerful

penetration. They hold a good cutting edge and are very strong.

JOHN DEERE NO. 10 ALL-STEEL BRUSH BREAKER

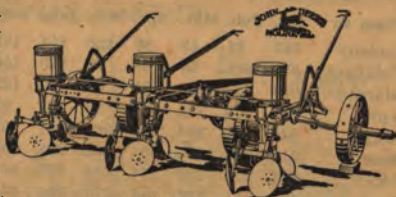


A new and especially popular type of brush breaker. Regularly equipped for horses; can be used with tractor. Cut, 16 inches wide, adjustable narrower, if desired. Depth, two to eight inches, controlled by handy levers. Heat-treated steel beam is much stronger than wood. Husky front truck with 40-inch wheel track—plow will not tip. Good clearance—21

inches from beam to share point; wide space between bottom and wheels. Extra strong bottom and standing cutter.

JOHN DEERE NO. 630 THREE-ROW TRACTOR LISTER

A new, thoroughly proved cost reducer for wheatland plowing and cotton or corn listing. Wheatland style furnished without drill; drilling attachment can be furnished. Row spacing adjustable to 44, 42, 40 and 38 inches. Tractor-plow strength. New style John Deere power lift—heavy-duty type, works better and lasts longer than any other. Accurate John Deere “999” corn drop and picker wheel cotton drop. Disk or shovel coverers. Be sure to see this money-saving three-row lister.



JOHN DEERE NO. 320 TRACTOR LISTING PLOW

The 320 fits the Fordson or any other small tractor. Lists 100 acres in 5-2/3 days, at the rate of 22 miles a day. All weight rolled—pulls light. Stiff hitch gives it handiness of two-wheel cart. Special, hard, tough John Deere steel in beams; strong in every part. Great clearance. Simple, positive power lift. Standard John Deere bottoms.



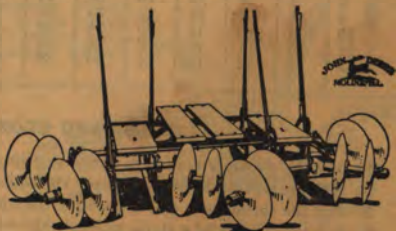
JOHN DEERE NO. 661 LISTING PLOW

A simple, strong, well-balanced two-furrow, horse listing plow. You can level both bottoms quickly, regardless of position of frame, by tilting bail with leveling lever. Handy master lever, with long lifting spring, makes it easy to raise or lower bottoms. Handy screw lever adjusts share points to proper pitch for penetration. Fore-truck eliminates side lashing and relieves horses of neck weight. Drill attachments and tractor hitch can be furnished.



JOHN DEERE THREE-ROW RIDGE BURSTER

A great cost-reducing implement for use with tractors of from 10- to 15-H. P. Permits one man to break down approximately 35 acres of ridges a day. New double-runner type—hugs better, pulls lighter and does better work. Rigidly-braced steel frame is extra strong. Easy lever control of each disk gang. Two-row and one-row styles can also be furnished.



ONE MONTH TO SAME DAY IN ANOTHER

From to	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
January..	365	31	59	90	120	151	181	212	243	273	304	334
February..	334	365	28	59	89	120	150	181	212	242	273	303
March....	306	337	365	31	61	92	122	153	184	214	245	275
April.....	275	306	334	365	30	61	91	122	153	183	214	244
May.....	245	276	304	335	365	31	61	92	123	153	184	214
June.....	214	245	273	304	334	365	30	61	92	123	153	183
July.....	184	215	243	274	304	335	365	31	62	92	123	153
August...	153	184	212	243	273	304	334	365	31	61	92	122
September	122	153	181	212	242	273	303	334	365	30	61	91
October...	92	123	151	182	212	243	273	304	335	365	31	61
November	61	92	120	151	181	212	242	273	304	334	365	30
December	31	62	90	121	151	182	212	243	274	304	335	365

Explanation.—To find the number of days from January 20th to December 20th, follow horizontal line opposite January until you reach the column headed by December, when you will find 334, representing the required number of days, and so on with the other months. During leap year, if February enters into the calculation, add one day to result.

SIX PER CENT INTEREST TABLE

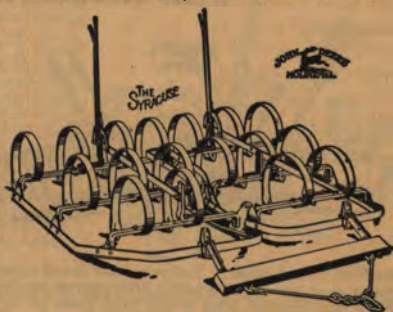
Time	\$1	\$2	\$3	\$4	\$5	\$6	\$10	\$20	\$50	\$100	\$1000
DAYS											
1	0	0	0	0	0	0	0	1	1	2	17
2	0	0	0	0	0	0	0	1	2	3	34
3	0	0	0	0	0	0	1	1	3	5	50
4	0	0	0	0	0	0	1	1	3	7	67
5	0	0	0	0	0	0	1	2	4	8	83
6	0	0	0	0	1	1	1	2	5	10	1 00
7	0	0	0	0	1	1	1	2	6	12	1 17
8	0	0	0	1	1	1	1	3	7	13	1 33
9	0	0	0	1	1	1	2	3	8	15	1 50
10	0	0	1	1	1	1	2	3	8	17	1 67
15	0	1	1	1	1	2	3	5	13	25	2 50
20	0	1	1	1	2	2	3	7	17	33	3 33
25	0	1	1	2	2	2	4	8	21	42	4 17
30	1	1	2	2	3	3	5	10	25	50	5 00
33	1	1	2	2	3	3	6	11	28	55	5 50
63	1	2	3	4	5	6	11	21	53	1 05	10 50
93	2	3	5	6	8	9	16	31	78	1 55	15 50
1	1	1	2	2	3	3	5	10	25	50	5 00
2	1	2	3	4	5	6	10	20	50	1 00	10 00
3	2	3	5	6	8	9	15	30	75	1 50	15 00
4	2	4	6	8	10	12	20	40	1 00	2 00	20 00
5	3	5	8	10	13	15	25	50	1 25	2 50	25 00
6	3	6	9	12	15	18	30	60	1 50	3 00	30 00
7	4	7	11	14	18	21	35	70	1 75	3 50	35 00
8	4	8	12	16	20	24	40	80	2 00	4 00	40 00
9	5	9	14	18	23	27	45	90	2 25	4 50	45 00
10	5	10	15	20	25	30	50	1 00	2 50	5 00	50 00
11	6	11	17	22	28	33	55	1 10	2 75	5 50	55 00
12	6	12	18	24	30	36	60	1 20	3 00	6 00	60 00
MONTHS											

CIRCLES AND GLOBES

- To find the circumference of a circle, multiply the diameter by 3.1416.
- To find the area of a circle, multiply the square of the diameter by .7854.
- To find the surface of a globe, multiply the square of the diameter by 3.1416.
- To find the solidity of a globe, multiply the cube of the diameter by .5236.

JOHN DEERE-SYRACUSE SPRING-TOOTH FLOAT HARROW

Sharp steel teeth penetrate deep, thoroughly pulverizing soil and tearing out all weeds. This harrow is particularly adapted for work in sandy, gravelly or stony ground where deep cultivation is required. Trash and weeds work to center and pass out through opening between sections, preventing loading and choking at this point. Teeth are instantly adjusted by means of convenient levers to meet different soil conditions. Frames and tooth bars are made of channel and angle-bar steel. Teeth are clipped onto bars. Runners have steel protective shoes. Adjustable hitch regulates teeth at the front and rear to work at same depth, regardless of size of team or length of tugs.



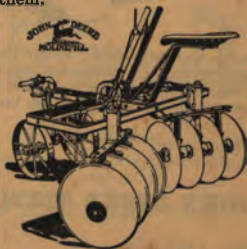
JOHN DEERE-SYRACUSE WEED DESTROYER

Canadian thistle, sow thistle, quack grass and other weeds cost millions of dollars yearly in unnecessary labor and reduced crops. Kill them by using a John Deere-Syracuse Weed Destroyer. The sharp-pointed, deep-penetrating teeth of this destroyer dig up weeds by the roots, tear the underground stems loose from the soil, and leave them on the surface, where they may be gathered up, hauled away and burned. Besides destroying weeds, this implement stirs the soil, making a good seed bed. Frame and tooth bars are made of high-carbon steel. Teeth have no bolt holes to weaken them.



JOHN DEERE MODEL A ORCHARD AND GARDEN DISK HARROW

An efficient harrow, adjustable and reversible and adaptable for cultivating hoed crops, orchards, vineyards, gardens and for regular field work. Space between gangs can be varied up to 30 inches. Independent lever controls each gang. Made in 4- and 5-foot cutting widths.



JOHN DEERE MODEL B DISK HARROW

Extremely flexible. Penetrates, pulverizes and packs the soil its entire width. Each gang works independently—one gang can pass over obstructions without lifting the other from its work. Angling levers permit work on hillsides without crowding in any direction. Pivoted yoke controlled by third lever and powerful pressure spring holds gangs to their work in all conditions. No straining or twisting of frame. All-steel riveted construction.



JOHN DEERE PONY TRACTOR DISK HARROW WITH YIELDING LOCK



Use with any standard tractor. Quickly converted into single- or double-action, horse-drawn harrow. Special hitch can be furnished when horses are used. John Deere automatic yielding lock coupling holds rear disks to work. Gangs work inde-

pendent of each other. Entire harrow is not raised from ground when one gang passes over an obstruction. Third lever on front section controls powerful spring and pivoted yoke which hold disks to their work. Aligning device insures thorough work.

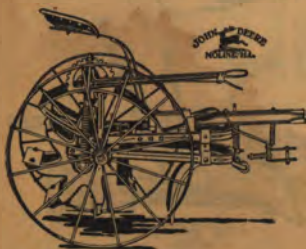
JOHN DEERE MODEL L TRACTOR DISK HARROW WITH YIELDING LOCK



Front and rear sections are angled by independent cranks convenient to tractor operator, without backing or stopping harrow. Automatic yielding lock coupling, an exclusive feature, compels rear disks to cut ridges left by front gangs. Gangs work independently —

soil is worked full width; no binding or twisting of frame. Pivoted yoke and pressure spring controlled by crank allows light or heavy pressure on disks. Aligning device provides means of locking rear disks in position for best work. Adjustable, extra-wide scrapers keep disks clean.

JOHN DEERE STEEL-FRAME STALK CUTTER



This stalk cutter will do good work in all conditions, whether the ground is frozen or muddy. The driver can shift the entire weight of the machine and his own weight as well on the knife head, or lessen the weight, as desired. Powerful springs lessen jar and cause knives to chop instead of crush the stalks. Spring hitch relieves strain on horses. Double-edged knives can be reversed when one side is dull. One lever raises both the knives and the stalk hooks. Furnished in single- or double-row.

JOHN DEERE NO. 999 CORN PLANTER

The John Deere Natural-Drop Seed Plates, sloping hopper bottom, improved metal cut-off and roller knocker insure positive feed and unfailing accuracy. Weight of corn causes seed to move along sloping bottom toward the hopper wall and enter cells of seed plate whether hopper is full or nearly empty. Seed plates can be furnished for handling practically every kind of seed. With the variable drop, two, three or four kernels can be planted in each hill as desired merely by shifting the foot lever. This machine is a combination check-row and drill planter. It can be furnished as drill planter only. Fertilizer attachment and pea attachment can be furnished.



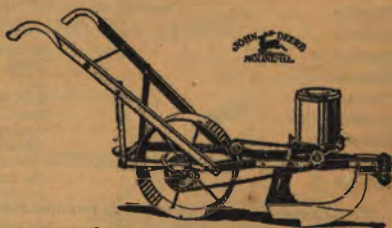
JOHN DEERE NO. 110 COTTON AND CORN PLANTER

The latest model riding planter. The John Deere steel saw-tooth type cotton picker wheel picks out seed one at a time in any quantity desired. Both ground wheels drive seeding mechanism, keeping machine in perfect alignment. Shank has ample adjustment for planting upon highest beds or in listed furrows. Feed is gear-driven. Peanut attachment does not damage peanut seed. Can also be furnished with fertilizer distributor, press wheel, and three-piece middlebreaker bottom.



JOHN DEERE NO. 226 ONE-HORSE CORN DRILL

Simplicity of construction, to a marked degree, distinguishes this machine. It has the same accurate drop as is used on the popular John Deere two-row planters. Frame and drive wheel made of steel—machine is durable and will stand hard usage. Special plates can be furnished for planting practically any kind of corn, peas, beans, etc.



The No. 226 Drill can be furnished with either fertilizer or pea attachments. Pea attachment will plant peas in the same hill with the corn, or alternately with the corn.

JOHN DEERE NO. 155 COTTON AND CORN PLANTER

Plants one cotton seed at a time in any quantity per acre desired. Plants corn, peanuts, peas, beans, sorghum and similar seed—remove cotton spider and insert proper seed plate and cut-off. One corn cut-off handles great variety of seeds. Cotton seeds are picked from hopper by narrow saw-tooth type steel picker wheel. Will plant one seed at a time or more if desired. No clogging—lint and trash removed with the seed. Furnished with runner opener having either gauge shoe or sweep, as shown. Swinging hitch can also be furnished instead of stiff hitch.



NUMBER OF SHRUBS OR PLANTS FOR AN ACRE

Distance Apart	No. of Plants	Distance Apart	No. of Plants	Distance Apart	No. of Plants
3 x3 inches	696,960	4 x 4 feet	2,722	13 x13 feet	257
4 x4 "	392,040	4½x 4½ "	2,151	14 x14 "	222
6 x6 "	174,240	5 x 1 "	8,712	15 x15 "	193
9 x9 "	77,440	5 x 2 "	4,356	16 x16 "	170
1 x1 foot	43,560	5 x 3 "	2,904	16½x16½ "	160
1½x1½ feet	19,360	5 x 4 "	2,178	17 x17 "	150
2 x1 "	21,780	5 x 5 "	1,742	18 x18 "	134
2 x2 "	10,890	5½x 5½ "	1,417	19 x19 "	120
2½x2½ "	6,960	6 x 6 "	1,210	20 x20 "	108
3 x1 "	14,620	6½x 6½ "	1,031	25 x25 "	69
3 x2 "	7,260	7 x 7 "	881	30 x30 "	48
3 x3 "	4,840	8 x 8 "	680	33 x33 "	40
3½x3½ "	3,555	9 x 9 "	537	40 x40 "	27
4 x1 "	10,890	10 x10 "	435	50 x50 "	17
4 x2 "	5,445	11 x11 "	360	60 x60 "	12
4 x3 "	3,630	12 x12 "	302	66 x66 "	10

SUITABLE DISTANCES FOR PLANTING

Apples—Standard.....	30 to 40 feet apart each way
Apples—Dwarf (bushes).....	10 " " " "
Pears—Standard.....	16 " 20 " " " "
Pears—Dwarf.....	10 " " " " "
Cherries—Standard.....	18 " 20 " " " "
Cherries—Dukes and Morrellos.....	16 " 18 " " " "
Plums—Standard.....	16 " 20 " " " "
Peaches.....	16 " 18 " " " "
Apricots.....	16 " 18 " " " "
Nectarines.....	16 " 18 " " " "
Quinces.....	10 " 12 " " " "
Currants.....	3 " 4 " " " "
Gooseberries.....	3 " 4 " " " "
Raspberries.....	3 " 5 " " " "
Blackberries.....	6 " 7 " " " "
Grapes.....	8 " 12 " " " "

To estimate the number of plants required for an acre, at any given distance, multiply the distance between the rows by the distance between the plants, which will give the number of square feet allotted to each plant, and divide the number of square feet in an acre (43,560) by this number. The quotient will be the number of plants required.

MILES TRAVELED IN PLOWING AN ACRE

Width of Furrow, Inches	Miles
10	9-9/10
11	9
12	8-1/4
13	7-1/2
14	7
15	6-1/2
16	6-1/6

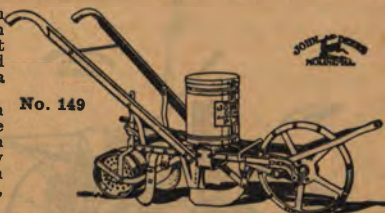
JOHN DEERE COMBINED COTTON AND CORN PLANTERS

For cotton — equipped with the John Deere steel saw-tooth type picker wheel. Picks all lint and trash out of the hopper and plants a single cotton seed at a time, or more, if desired.

For corn — equipped with John Deere natural drop — the accurate dropping mechanism used on the popular two-row John Deere planters in the corn belt. Special plates for peanuts, sorghum and other seeds.

No. 147 has shovel opener and coverers; No. 149, runner opener and knife coverers. Both planters have pitman drive. Press wheel for pea and bean attachment can be furnished.

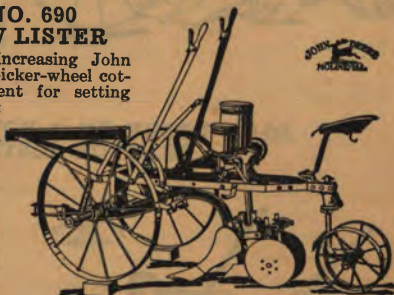
No. 149



JOHN DEERE
MOLINE, ILL.

JOHN DEERE NO. 690 SERIES ONE-ROW LISTER

Has the accurate, yield-increasing John Deere "999" corn drop and picker-wheel cotton drop. Simple adjustment for setting wheels in or out as desired; tilting lever adjusts bottom instantly for proper penetration and suction; tilting bail with leveling lever instantly levels bottom regardless of position of frame; main wheels set forward, carrying front end like a truck—weight of eveners does not affect quality of work; greater clearance than on ordinary listers; quickly-adjustable coverers—disk or shovel type. Pea attachment can be furnished.



JOHN DEERE
MOLINE, ILL.

JOHN DEERE NO. 440 LISTER

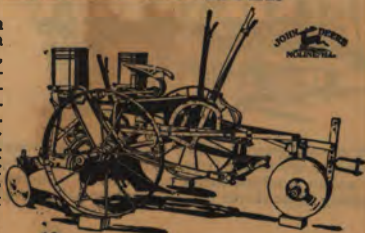
Equipped with the John Deere lister bottom, famous for penetration, shedding, good work and long wear. The John Deere picker wheel handles any grade of cotton seed. The John Deere "999" corn drop is famous for accuracy. Depth of trench easily and accurately regulated with single lever. Beam-leveling device keeps beam level at all depths. Special lever covering control can be furnished as an extra. Drive chain automatically tightened. Extra strong beam. Simple, long-lived subsoiler. Adjustable clevis. Either shovel or disk coverers can be furnished. Wheel-track adjustment from 34 inches narrow to 45 inches wide.



JOHN DEERE
MOLINE, ILL.

JOHN DEERE NO. 660 SERIES LISTER

A new-style, two-row lister with important advantages. You can adjust row-spacing *quickly* to 36, 38, 40 or 42 inches; level both bottoms instantly with one lever, regardless of position of frame; adjust bottoms for proper penetration and suction with handy screw device; regulate depth of covering without leaving seat or stopping team. Cotton drop and corn drop are the most accurate made. Disk or shovel coverers.



JOHN DEERE
MOLINE, ILL.

JOHN DEERE NO. 640 SERIES LISTERS



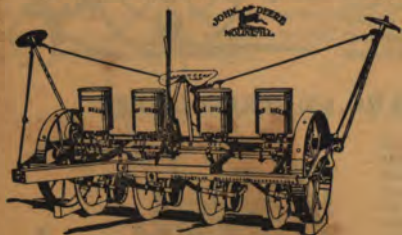
Two-row listers for planting cotton, corn, beans, etc. Cotton drop is the John Deere picker-wheel type that picks out one cotton seed at a time, or more, if desired, and spaces them uniformly. Corn drop is the John Deere "999", famous for its accuracy. Standard John Deere bottoms. Either disk or shovel covers; quickly adjustable. Row-spacing quickly convertible to 36, 38, 40 or 42 inches. Simple lever control; both bottoms are hung on the bail. Tilting this bail with leveling lever levels bottoms, regardless of position of frame. Pea attachment can be furnished.

JOHN DEERE NO. 1 POWER-LIFT TRACTOR LISTER



A strong, light-draft, two-row lister that can be used with either horses or tractor. Easily pulled by six horses or tractor of 8-H. P. Adjustable for shallow or deep listing or re-listing. Simple, positive power lift raises bottoms high. Bottoms, 14-inch cut, with extra heavy share. Beams of special John Deere steel, extra strong. Accurate drop. Plates can be furnished as required for seed-spacing or kind of seed.

JOHN DEERE FOUR-ROW BEET AND BEAN PLANTER



Save valuable time during the planting season with the four-row beet and bean planter. Seed can be planted in uniform rows of 20, 22, 24, 26 or 28 inches, or in wide and narrow rows 16 and 24, 16 and 26, 18 and 24, 18 and 26 inches. Has large hoppers and very accurate seed-dropping mechanism, being equipped with John Deere Natural - Drop Seed Plates. Planting depth regulated by adjustable press wheels. Plants at even depth

in uneven ground. The machine is automatically thrown out of gear when runners are raised from ground. Telescoping frame makes compact machine—entire machine easily narrowed or widened. Fertilizer attachment and irrigating attachment can be furnished if wanted.

ADDRESSES

Name

Street and No.

City and State

Name

Street and No.

City and State

Name

Street and No.

City and State

Name

Street and No.

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City and State

JOHN DEERE-VAN BRUNT ONE-HORSE DRILL

Plain or Fertilizer

For planting between rows of corn or for small plots of ground. Adjustable for 6-, 7- and 8-inch rows. Swinging outer disks prevent damage to corn, but insure planting all the ground. Adjustable gate force-feed; guaranteed disk bearings. Grass-seeder attachment can be furnished if wanted.



JOHN DEERE-VAN BRUNT GRAIN DRILLS

Single-Disk, Double-Disk, Shoe or Hoe Type

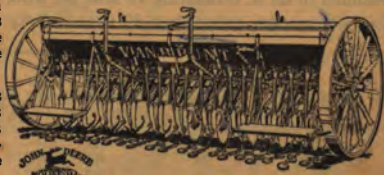
Handle any size seed from alfalfa to bearded oats, beans and corn. No choking up in the grain box—the adjustable gate force-feed prevents this.

No clogging up—metal tubes from grain box to furrow openers and closed-delivery disk boots protect seed until placed at bottom of furrow. Adjustable spring-pressure furrow openers insure furrows of equal depth. Scrapers keep the disks clean at all times.

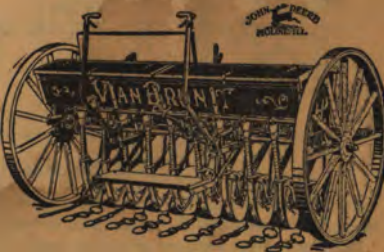
Seed is covered—tilting lever enables the operator to set the disk boots to cover the seed, whether a large or small team is used, up hill or down.

Standard sizes and styles—can be furnished with grass-seeder attachment, tractor hitch and power lift.

The Van Brunt Drill can be furnished with spring-trip hoes. Upon striking an obstruction, these hoes spring back, pass over, and then return to working position without breaking.



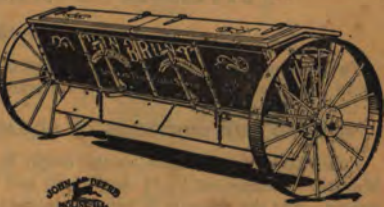
Single-Disk Grain Drill



Single-Disk Fertilizer Drill

JOHN DEERE-VAN BRUNT LIME AND FERTILIZER SOWER

Covers 8 feet of ground; carrying capacity, 10 bushels. Direct wheel drive—each wheel drives half the machine. Wood or steel wheels. Rotary wing feed. Distributes crushed lime-rock, slacked lime, all brands of commercial fertilizer, dry wood ashes, etc., in quantities from 150 to 8,000 pounds per acre. Effective revolving agitators furnished when ordered.



CAPACITY OF A SILO

A silo, properly filled—that is, if the contents are made compact throughout—contains one ton of silage for every fifty cubic feet of space. To illustrate the economy of a silo to store stock feed as compared with a barn, a ton of hay requires 400 cubic feet of space. A farmer can easily figure how much a silo will contain by the following rules:

Multiply the square of the diameter by 0.7854, that will be the area of the circular floor. Multiply the area of the floor by the height, that will give the number of cubic feet. One cubic foot of silage weighs 40 pounds. Multiply the cubic feet by 40, and the result is the number of pounds of silage the silo will contain. Divide that by 2,000 to find the number of tons.

Example—If a silo is 16 feet in diameter and 26 feet high, $16 \times 16 \times 0.7854$ equals 201.1 square feet; 201.1×26 equals 5,228.6 cubic feet; 5,228.6 cubic feet multiplied by 40 pounds would make 209,164 pounds of silage, or a little more than 104 tons.

The following table gives the size of a silo, capacity in tons, number of acres required to fill it, estimating 15 tons per acre, and the number of cows it will feed six months, giving them 40 pounds daily:

Diameter	Depth	Capacity in Tons	Acres to Fill, 15 Tons to Acre	Cows It Will Keep 6 Months, 40 Lbs. per Day
10	20	28	3	8
12	20	40	3	11
12	24	49	3-2/5	13
12	28	60	4	15
14	22	61	4-1/2	17
14	24	67	4-2/5	19
14	28	83	5-2/3	22
14	30	93	6	23
16	24	87	6-2/5	24
16	26	97	7	26
16	30	119	8	30
18	30	151	10-1/5	37
18	36	189	12-1/3	45

LUMBER MEASURE

To find the contents of boards, in square feet. Rule—Multiply the length (in feet), by the width (in inches), and divide the product by 12.

Example—Find contents of 16-foot board, 9 inches wide.

$$9 \times 16 = 144 \div 12 = 12 \text{ square feet. Ans.}$$

To find the contents of scantlings, joists, etc., in square feet.

Rule—Multiply the length, thickness and width together, and divide product by 12.

Example—Find contents of 18-foot joist, 2 x 8.

$$2 \times 8 \times 18 = 288 \div 12 = 24 \text{ square feet. Ans.}$$

LAND MEASURE

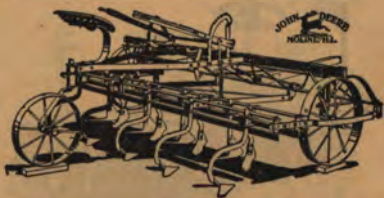
To find the number of acres in a tract of land. Rule—Divide the number of square rods by 160; of number of square chains by 10.

TO FIND THE CONTENTS OF SQUARE TANKS IN GALLONS

Rule—Multiply the depth by the height in order to secure the cubic feet. Multiply the cubic feet by $7\frac{1}{2}$ (exact 7.48) and the result will be the number of gallons. For the contents in barrels, multiply the cubic feet by .2375.

JOHN DEERE THREE- AND FOUR-ROW BEET AND BEAN CULTIVATORS

Unusual strength and ease of adjustment and operation are the outstanding features on the John Deere Beet and Bean Cultivators. The tool bars are made of a flat top bar and heavy tee iron bottom bar. The tools can be clamped either to front or rear of tool bars, and are held rigidly in place by unusually strong clamps. Pivoted wheel dodge operated by the feet. Double tool bars regular equipment. Large variety and many sizes of tools can be furnished.



JOHN DEERE NO. 21 BEET LIFTER

Loosens the dirt and lifts the beets $\frac{3}{4}$ to $1\frac{1}{4}$ inches, leaving them upright and easy to gather. Does not throw beets on top of ground, leaving them exposed to the elements. Tongue truck relieves neck weight. Double-pointed lifting blades give twice the length of service—shaped correctly, do not injure beets. Tilting lever permits instant change of suck of lifting blades. Quick, easy dodge. Two horses handle the John Deere under ordinary conditions.



JOHN DEERE ONE-HORSE CULTIVATORS

Popular for years among market gardeners. So handy in operation that they make hoeing unnecessary. Expanding lever for narrowing or widening cut adapts them for great variety of row crops. All parts substantially made. Shanks, drop-forged from steel plates, have great strength without excessive weight and are adjustable to different angles. Long wood handles are adjustable for height, and have comfortable hand-grips. John Deere shovels do good work, have perfect polish, scour well, have proper set and suction, are well sharpened, and give extra long service.

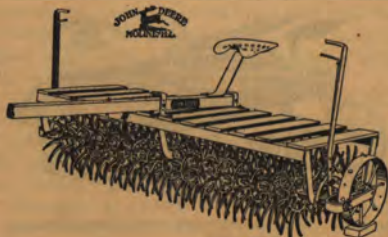


JOHN DEERE ALFALFA CULTIVATOR

Constructed especially for cultivating alfalfa, breaking up the top layer of soil, which becomes packed and hardened. Lighter draft, and cultivates more thoroughly in alfalfa than any other machine. Tooth bars are hung independently in frame and controlled individually by spring pressure. Size: $6\frac{1}{2}$ feet wide. Seeder attachment can be furnished if wanted.



JOHN DEERE ROTARY HOES

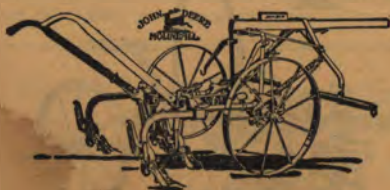


For early cultivation of all kinds of row crops, small grain, alfalfa, etc. Strong, easy-pulling, easily operated.

Can be furnished with poles for either two- or three-horse hitch or with tongue truck for horse or tractor hitch. Eleven-foot flexible three-row hoe with either four-horse or tractor hitch.

Two sizes: Eight-foot, two-row, and flexible eleven-foot, three-row.

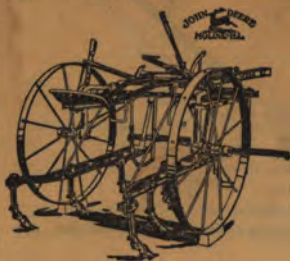
JOHN DEERE DF WALKING CULTIVATOR



Balanced frame, with correct attachment for lifting springs — light or heavy rigs handle easily — pole does not fly up when heavy rigs are raised. Connecting point between lifting spring yoke and beam coupling can be raised or lowered for penetration to suit

soil conditions. Simple depth-regulating device. Hugging device makes it easy to keep rigs parallel with row, no matter how shovels are set. High, adjustable arch.

JOHN DEERE KC CULTIVATOR



Every adjustment made quickly and accurately from the seat with handy levers. Lower the rigs with the master lever; shovels penetrate level. Space them with spread lever; they spread equally at front and back. Get exact depth desired with independent levers. Regulate for uniform depth of front and rear shovels when cultivating up or down slope, with tilting lever. Rigs always work parallel—shovels always point straight ahead and cut out full width—no weeds “get by”.

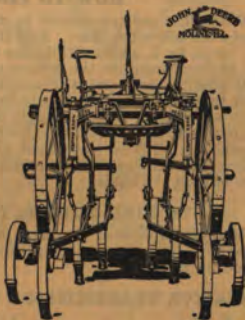
JOHN DEERE VB CULTIVATOR Leverless



Turning a convenient tail nut within handy reach of the operator adjusts depth quickly and easily. Specially-designed coupling sleeve makes the VB balance properly without adjustment of the lifting springs. Wheels are extra strong with dust - proof and oil - tight boxes. Various style rigs and shovels can be furnished.

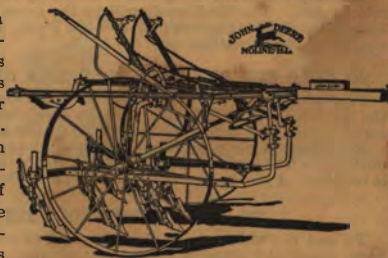
JOHN DEERE KH CULTIVATOR

Especially designed for use in narrow or wide rows in the East. Wheel track quickly adjustable to 34, 36, 38, 40, 42, 44 or 46 inches. Shanks on the eight-shovel rigs can be adjusted for work in rows as narrow as 28 inches, or as wide as 48 inches. Easy control to meet all field conditions by means of master lever, independent depth levers, tilting lever and spacing lever. Quick dodge—pedal guide pivots wheels and shifts rigs. Open framework through center gives good view of work ahead of shovels. Strongly built—frame does not sag; wheels do not spread.



JOHN DEERE RC CULTIVATOR

This hammock-seat John Deere machine makes cultivating easy. All depth adjustments can be made while the shovels are in the ground. Balance lever prevents the pole from flying up. Tread can be varied fourteen inches. Strong construction insures long life. Frame is of I-bar steel. High wheels have broad, concave tires and oil-tight, dust-proof boxes. Various style rigs and shovels can be furnished.



JOHN DEERE NO. 223 DISK CULTIVATOR

With this cultivator you can dodge around the young plants in uneven rows, and do a thorough job of cultivating without damaging the roots. The dodging is done by means of foot rests, which are attached directly to the disk gangs. Exceptionally long drawbars make dodging easy. For shallow cultivation. Kills all the weeds. Instant adjustment for angling or tipping gangs to meet all conditions. Gangs can be reversed for either throw-in or out-throw without taking them off. Shovel equipment and spring tooth attachment can be furnished.



BELTING POINTERS

HOW TO FIND LENGTH REQUIRED

When it is not convenient to measure with the tape-line the length required, apply the following rule: Add the diameter of the two pulleys together, divide the result by 2, and multiply the quotient by $3\frac{1}{2}$; then add this product to twice the distance between the centers of the shafts, and you have the length required.

If possible to avoid it, connected shafts should never be placed one directly over the other, as in such case the belt must be kept very tight to do the work.

It is desirable that the angle of the belt with the floor should not exceed 45 degrees. It is also desirable to locate the shafting and machinery so that belts should run off from each shaft in opposite directions, as this arrangement will relieve the bearings from the friction that would result when the belts all pull one way on the shaft.

TO FIND THE BELT SPEED IN FEET PER MINUTE

Multiply diameter of pulley in inches by 3.1416. This gives circumference of pulley, and this result multiplied by number of revolutions will give you belt speed in inches.

RELATIVE TRANSMISSION OF H. P. FOR ANY GIVEN THICKNESS OF BELT

The horse power for a given speed will be directly proportioned to the width of the belt; that is, a 4-ply belt, 16 inches wide, running at a certain speed, will transmit eight times as much power as a 4-ply belt 2 inches wide, running at the same speed, and a belt 100 inches wide, ten times as much as a 10-inch belt of the same thickness, running at the same speed, etc.

TO FIND THE H. P. THAT ANY GIVEN BELT WILL ECONOMICALLY TRANSMIT

Multiply the width of the belt in inches by its speed in feet and divide the result by 800. The final result will be the horse power for a 4-ply belt. For a 6-ply belt, divide this result by 600; for 8-ply, divide this result by 400; for 10-ply, divide this result by 350.

TO FIND THE PLY OF A BELT OF A GIVEN WIDTH REQUIRED

To economically transmit a given horse power at a given belt speed, multiply the given horse power by 800 and the given width in inches by the given belt speed in feet, and divide the first result by the second.

If the final result is one, or nearly one, a 4-ply belt is required; if one and one one-half, a 6-ply belt is required; if one and three-quarters to two, an 8-ply belt is required; if two to two and one-quarter, a 10-ply belt is required.

TO FIND WIDTH OF BELT REQUIRED

To find the width of a 4-ply belt required economically to transmit a given horse power at a given belt speed per minute: Multiply the given horse power by 800, and divide the results by the given belt speed.

To find the width of a 6-ply belt required: Multiply the horse power by 600; divide the result by belt speed.

To find the width of an 8-ply belt required: Multiply horse power by 400; divide result by belt speed.

To find the width of a 10-ply belt required: Multiply horse power by 350; divide result by belt speed.

TO FIND SPEED AND DIAMETER OF PULLEYS

The product of the diameter and speed of the driving pulley equals the product of the diameter and speed of the driven pulley; consequently, if the speed and the diameter of the driving pulley are given, multiply them together and divide by the diameter of the driven pulley to find the speed of the driven; or divide by the speed of the driven pulley to find its diameter.

Example—The drive pulley on a tractor is $9\frac{1}{2}$ inches in diameter and runs at 1,000 R. P. M.; what size pulley must be used on a thresher cylinder shaft that must run at 1,100 R. P. M.

$9\frac{1}{2}$ times 1,000 equals 9,500; divided by 1,100, equals 8.64. Since pulleys are made only in certain standard diameters, use either the next size larger, 9" diameter, and raise the engine speed slightly, or use $8\frac{1}{2}$ " pulley, considering that the slight slippage will reduce the effective speed to the correct number of revolutions per minute.

Example—At what speed will a rock crusher run, if its 6-inch pulley is belted to a $9\frac{1}{2}$ -inch pulley on a tractor with an R. P. M. of 1,000?

$9\frac{1}{2}$ times 1,000 equals 9,500; divided by 6, equals 1,583 R. P. M.

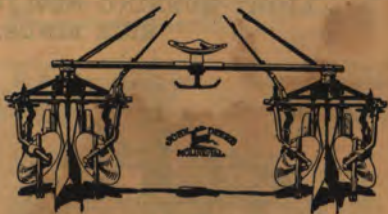
JOHN DEERE NH TWO-ROW CULTIVATOR

John Deere Two-Row Cultivators are famous for their good work and easy operation. When you are on the NH, the type built especially for checked corn, you can see three hills at once — the hill you are cultivating, the hill just ahead, and the hill just finished. Other popular features are the handy spacing lever with which you can space the rigs in or out as you drive along, and a handy tilting lever with which you can tilt the rigs forward or back. As easy to operate as a single-row. Furnished with four-horse hitch and tongue truck, or with three-horse hitch.



JOHN DEERE NO. 400 SERIES TWO-ROW LISTED CORN CULTIVATOR

Follows the trenches perfectly and has these distinctive advantages—easier adjustments; a variety of tillage equipment to meet every requirement; the kind of work you want, regardless of which type of equipment you use. Non-rocking bolster plate prevents any tendency of gangs to climb ridges. When you see the tillage equipment—how easily and quickly any type of equipment can be put on and how quickly you can make any desired adjustment, you will be sure to want a John Deere "400".



HANDY FARM MIXER

Just the machine for mixing your own concrete on the farm. Make your own concrete walks, steps, feeding and well platforms, stable, chicken - house and hog-house floors, make your own fence posts, etc. Saves hard back-breaking work. Mixes thoroughly a wheelbarrow-load per minute. Operated by hand or light engine power. Easily loaded and dumped. All metal construction — lasts for years. Simple, positive gear drive. No moving parts in drum. Drum tilts both ways. Mix is always in full view. No farm job too small or too large for this machine. Can be furnished mounted on truck with or without engine.



LIGHT-RUNNING NEW JOHN DEERE GRAIN BINDER



curate work for a long time. A strong rugged binder that meets the demands of power farming and unusual conditions.

The only real quick-turn tongue truck. No neck weight on horses. No wood stub tongue to rot or break. Flexibly-mounted axle enables wheels to follow uneven ground, keeping binder running straight and relieving side draft. Stiff pole, tractor hitches, power drive and other standard equipment can be furnished. Sizes: 6-, 7- and 8-ft., also 10-ft. tractor binder.

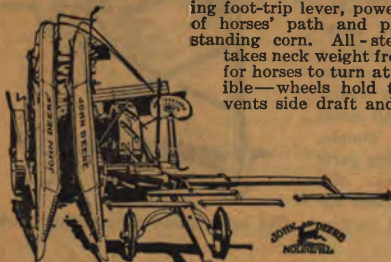
Roller, oil-soaked maple and self-aligning bearings, improved cutting parts, smooth delivery of grain to packers, and oil holes that will not be overlooked make the John Deere exceptionally light-running. Elevators adjust themselves to handle light or heavy grain—no choking. A sure-tying knotter—all parts that are subject to wear case-hardened, insuring ac-

LIGHT-RUNNING NEW JOHN DEERE RICE BINDER



Designed in the rice fields. Harvests the rice where it seems no binder could go. Light-running, strong, ample traction, great-capacity elevators and accurate long-lived knotter. Wheels and outer end of platform shielded. Effective mud scraper. All sheet-steel parts galvanized. Tractor hitch, power-drive attachment, stiff pole can be furnished. Sizes: 6-, 7- and 8-foot cuts.

JOHN DEERE CORN BINDER



This binder is unusually easy to operate. By pressing foot-trip lever, power carrier delivers bundles free of horses' path and practically at right angles to standing corn. All-steel quick-turn tongue truck takes neck weight from horses and makes it easy for horses to turn at ends. Axle of truck is flexible—wheels hold to uneven ground, which prevents side draft and sluing on side hills. Wide

range of adjustment, seventeen roller and ball bearings, perfect delivery of cut corn to binder attachment, and unusual strength throughout, are other important features. Stiff pole and tractor hitches can be furnished.

JOHN DEERE

CORN PICKER

Picks cleanly, is light draft, operates easily and wears long. Safety slip clutches on all main units prevent breakage. Operated with horses or tractor.

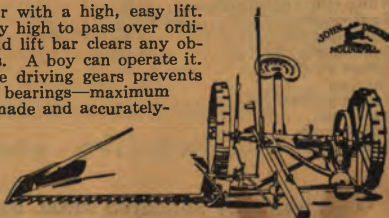
Regular attachments: Tongue truck with five-horse strung-out evenner. Wagon-box elevator.

Special attachments: Tractor hitch with one-man control from seat of tractor. Wagon hitch for tractor use only. Power-drive attachment with offset tractor hitch and one-man control.



JOHN DEERE HIGH-LIFT MOWER

An extremely simple mower with a high, easy lift. Bar raised with foot lift amply high to pass over ordinary obstructions. With hand lift bar clears any obstruction doubletrees will pass. A boy can operate it. Special arrangement of simple driving gears prevents side strain and undue wear on bearings—maximum power delivered to carefully-made and accurately-fitted knife. Location of pinion on crank shaft prevents end thrust. Bar attached to wide yoke with large steel pins. Twenty-one-point clutch insures instant starting. Cutter bar floats and has great flexibility. All adjustments and repairs quickly and easily made with ordinary tools. Can be furnished with all-steel quick-turn tongue truck. One-horse mowers and rubber-tired road mowers also furnished. Sizes: Regular Frame, No. 1, 3½-, 4½- and 5-foot cut; Big Frame, No. 2, 3½- to 7-foot cut; One-Horse, 3½- and 4-foot cut.



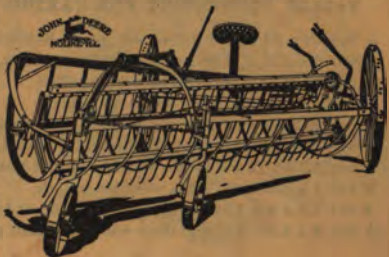
NEW JOHN DEERE SULKY RAKE

The rake that gives years of service. Wheels interchangeable, and dump rods reversible, giving extra wear without repair expense. Wheels have proper pitch and gather. Steel truss rod reinforces rake head—prevents sagging. Tooth holders accommodate large or small number of teeth. Adjustments provided to keep rake in perfect working order. Tripping device is positive and simple. Set of teeth quickly changed with adjusting lever bar. This rake is easy to operate and does a real job of raking. Sizes: 8-, 9-, 10-, 11- and 12-foot. Tongue truck and special heavy-duty wheels and teeth can be furnished.



JOHN DEERE SIDE-DELIVERY RAKE

Air cures hay without loss of color, foliage or feeding value when used according to the John Deere Way of Air-Curing Hay. Rake follows mower while leaves are still active and lays the hay in loose, fluffy windrows, leaves inside, butts out. Inclined frame gives greater capacity as volume of hay increases. Curved teeth lift hay gently—no dragging or threshing. All adjustments are made from the seat.



RELATIVE HARDNESS OF WOOD

Taking shellbark hickory as the highest standard of our forest trees, and calling that 100, other trees will compare with it for hardness as follows:

Shellbark hickory.....	100
Pignut hickory.....	96
White oak.....	84
White ash.....	77
Dogwood.....	75
Scrub oak.....	73
White hazel.....	72
Apple tree.....	70
Red oak.....	69
Yellow oak.....	69
White beech.....	65
Black walnut.....	65
Black birch.....	62
White elm.....	58
Hard maple.....	56
Red cedar.....	56
Wild cherry.....	55
Yellow pine.....	54
Chestnut.....	52
Yellow poplar.....	51
Butternut.....	43
White birch.....	43
White pine.....	30

TO PROTECT POLISHED STEEL OR IRON FROM RUST

Go over the surface with paraffin, or steep the iron for a few moments in a solution of soda acidulated with hydrochloric acid. The result is a blue-black coating not affected by air or water.

RULE TO CALCULATE THE HORSE POWER OF AN ENGINE

This rule will prove correct for all ordinary engines, but there may be a very slight variation in the case of an extra long or extra short stroke.

Rule—Multiply the diameter of the cylinder in inches by itself; in other words, square the diameter in inches, and divide by four.

LAND MEASURE

To find the number of acres in a body of land, multiply the length by the width (in rods), and divide the product by 160. When the opposite sides are unequal, add them, and take half the sum for the mean length or width.

TABLES CONVENIENT FOR TAKING INSIDE DIMENSIONS

A box 24 x 24 x 14.7 inches will hold a barrel of 31½ gallons.

A box 15 x 14 x 11 inches will hold 10 gallons.

A box 8½ x 7 x 4 inches will hold a gallon.

A box 4 x 4 x 3.6 inches will hold a quart.

A box 24 x 28 x 16 inches will hold five bushels.

A box 16 x 12 x 11.2 inches will hold a bushel.

A box 12 x 11.2 x 8 inches will hold a half bushel.

A box 7 x 6.4 x 12 inches will hold a peck.

A box 8.4 x 8 x 4 inches will hold a peck, or four dry quarts.

A box 6 x 5.6 x 4 inches deep will hold a half gallon.

JOHN DEERE DOUBLE - CYLINDER HAY LOADER

Does better work in any kind of hay, rakes cleaner, delivers the hay in better condition, and has a greater capacity than any other loader on the market. It is easiest to operate, and saves time and labor.

Handles hay gently from ground to top of load. Spring-floated gathering cylinder follows uneven surface of field. Gets all the clean hay; leaves the trash. Handles the lightest swath or heaviest windrow; light draft. All-steel frame with hot-riveted corner plates. Hinged carrier can be adjusted up or down by the man on load. Makes loading easy in windy weather.

Can be furnished with either forecarriage or tongue truck.



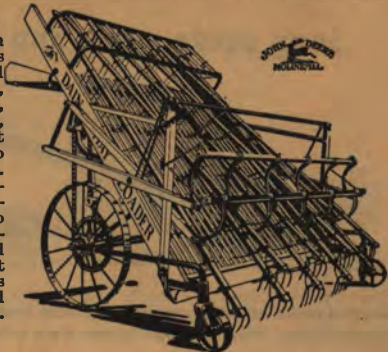
JOHN DEERE SINGLE - CYLINDER HAY LOADER

Very light draft and minimum number of working parts. Single drum mounted directly on the axle. Hinged carrier makes loading easy in windy weather. Furnished regularly with forecarriage—no lifting is necessary when coupling to wagon. Extra strong, well-braced frame with hot-riveted corner plates. Gets all the hay when properly raked into windrows. Handles alfalfa, clover and beans without knocking off valuable foliage parts. Capacity ample for all side-rake windrows.

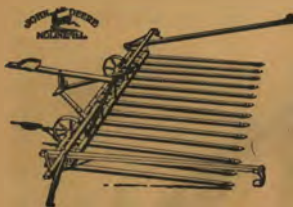


JOHN DEERE-DAIN RAKER-BAR HAY LOADER

Forced delivery; one man can easily build the load. Strokes of ground rakes overlap and save all the hay. Smooth, steady strokes; hay is lifted, not dragged. Large capacity, independent raker bars adjust themselves automatically to light swath or heavy windrow. Raker bars operated by hammock-mounted pitmans, no revolving shafts over deck to wind hay. Malleable, one-piece sloping shoulder ground rakes. Self-cleaning; do not wind the hay. High wheels and straight chain drive, geared at proper speed for best work.



JOHN DEERE-DAIN TRUSS-FRAME SWEEP RAKE



Easily gathers and carries large quantities of hay. Rake is flexible, and tongues are hinged, allowing teeth to follow meadow surface closely, raking clean without jerking horses' necks. Driver can balance weight of teeth by means of sliding seat. Teeth are oil-soaked and have heavy metal points, insuring long life. Twelve feet wide with eight-foot teeth.

The alfalfa rake is specially constructed to handle bigger and heavier loads, and the special 21-inch alfalfa head greatly increases the capacity.

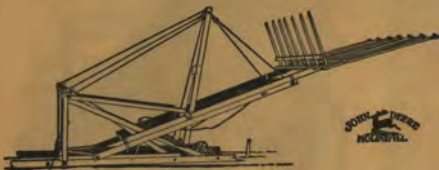
JOHN DEERE-DAIN POWER-LIFT RAKE



A perfect carrying rake. Horses furnish power for lifting teeth to carrying position. Automatic foot levers lock teeth when raised or lowered. Horses walk back of the teeth so that hay can be gathered close to fences or ditches. Teeth points can be held close to the ground. They gather hay properly from swath, windrow or cock.

Cushion springs allow teeth to yield and pass over obstructions. Caster wheels make rake easy to guide. Also furnished in the Alfalfa Power-Lift and Jumbo Power-Lift sizes. The Alfalfa Rake is designed to handle a larger quantity of hay than the regular, and the Jumbo has an even greater capacity than the Alfalfa type.

JOHN DEERE NOS. 1 AND 2 HAY STACKERS



Simple in operation—strong. Adjustable stop cables and long compression spring insure proper delivery. Center of stack is always higher and firmer to shed rain. Delivery height easily adjusted. Only one stake at rear end is needed to hold down

stacker under ordinary conditions. Cable brake holds up stacker head when transporting. New type hay retainers are strong and effective.

JOHN DEERE PULL-POWER HAY PRESS

Sizes—14 x 18, 16 x 18 and 18 x 22. A self-feed, pull-power press, practically all steel, simple, powerful and durable. Large capacity and light draft. Pull power is easy on the horses and delivers bale to the front out of the way of the dust and dirt. Self-feed and powerful action of plunger produce neat, well-pressed bales, the kind that bring the best price and take the least space. Capacity, $\frac{1}{2}$ to 1 $\frac{1}{2}$ tons per hour.



JOHN DEERE ONE-HORSE PULL-POWER PRESS

Is 14 x 18 size only. Built along same lines as the two-horse, with pull power, positive return, etc., but lighter, and is made in hand-feed only. Capacity, $\frac{1}{2}$ to 1 ton per hour.

JOHN DEERE MOTOR PRESS

For either private or custom work. Eccentric gear drive gives increased leverage on compression stroke and a quick return of the plunger—the reason why this press will turn out more and better bales in less time than any other make of press. Improved block dropper, automatic tucker, positive self-feed and powerful plunger with its rocking action makes neat, well-pressed bales rapidly and easily without any sudden jar or shock. Engine extension can be furnished when desired. Quickly attached, with engine always properly lined up. 14 x 18-, 16 x 18- and 18- x 22-inch bales.



JOHN DEERE JUNIOR MOTOR PRESS

A light-weight outfit for individual use. Size, 14 x 18; capacity, 1 to 2 tons per hour. Driven by portable engine, light tractor or engine mounted on the press. No clutch necessary — sliding engine base makes it possible to start engine light and gradually tighten the belt to start the press. Eccentric gears give extra power on working stroke; quick return on idle stroke. Automatic tucker; improved block dropper.



WOOD FOR FUEL

In regard to the relative values of woods as heat-producers, different woods vary some by different methods of experimenting. The most accurate would be their value as steam-producers. The following test was made from a fire tubular, horizontal boiler:

Shellbark hickory.....	100
Pignut hickory.....	95
White oak.....	84
White ash.....	77
Dogwood.....	75
Scrub oak.....	73
White hazel.....	72
Apple tree.....	70
Red oak.....	67
White beech.....	65
Yellow oak.....	60
Hard maple.....	59
White elm.....	58
Red cedar.....	56
Wild cherry.....	55
Yellow pine.....	54
Chestnut.....	52
Yellow poplar.....	51
Butternut.....	43
White birch.....	43
White pine.....	30

These figures are from air-dried wood. No accurate result could be obtained from green wood, as it is not in a proper condition, and would vary considerably from any figures made.

COMMODITY WEIGHTS AND MEASURES

A pint's a pound—or very nearly—of the following: Water, wheat, butter, sugar, blackberries.

A gallon of milk weighs 8.6 pounds; cream, 8.4 pounds; 46½ quarts of milk weigh 100 pounds.

A keg of nails weighs 100 pounds. A barrel of flour weighs 196 pounds; of salt, 280 pounds; of beef, fish or pork, 200 pounds; cement (4 bags), 376 pounds.

Cotton in a standard bale weighs 480 pounds. A bushel of coal weighs 80 pounds.

A barrel of cement contains 3.8 cubic feet; of oil, 42 gallons.

A barrel for dry commodities contains 7,056 cubic inches, or 105 dry quarts.

A bushel leveled contains 2,150.42 cubic inches; a bushel heaped = 2,747.7 cubic inches. (Used to measure apples, potatoes, shelled corn in bins.)

A peck contains 537.605 cubic inches. A dry quart contains 67.201 cubic inches.

An acre contains 4,840 square yards, or 43,560 square feet. A square acre measures 208.71 feet on each side.

A board foot = 144 cubic inches; a cord contains 128 cubic feet.

WEIGHTS AND VOLUMES OF WATER

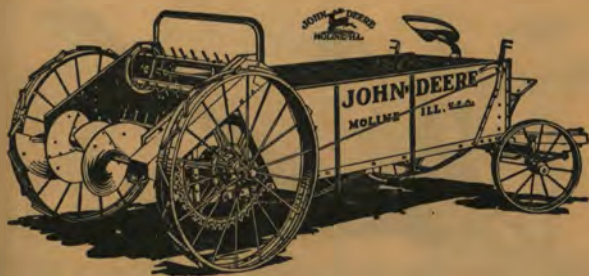
One cubic inch of water weighs .03617 pounds. One cubic foot weighs 62.5 pounds.

One cubic foot = 7.48052 gallons. One pint (liquid) weighs 1.044375 pounds. One gallon weighs 8.355 pounds. One gallon = 231 cubic inches. One liquid quart = 57.75 cubic inches.

FOREIGN MONEY TABLES

English: 4 farthings = 1 penny (d); 12 pence = 1 shilling (s); 20 shillings = 1 pound (£); 21 shillings = 1 guinea. **French:** 100 centimes (c) = 1 franc (fr). **German:** 100 pfennige (pf) = 1 mark. **Dutch:** 100 cents = 1 florin or guilder. **Italian:** 100 centesimi = 1 lira. **Spanish:** 100 centimos = 1 peseta.

NEW JOHN DEERE SPREADER



The new spreader with the beater on the axle and the box-roll turn is a three-beater tight-bottom type. Beater-on-the-axle construction gives the John Deere a low, easy-loading box and, at the same time, permits using a box deeper than on any other make. The box is slightly wider at the beater end than at the front—friction between the load and sides of box is greatly reduced.

The New John Deere saves labor because its box is low from the front to the rear and pulls lighter because of high drive wheels, combined with roller bearings and fewer moving parts. It does better work because the beaters are low down—side winds will not cause the manure to drift. Lasts longer because of simplicity of design, and high-grade materials and workmanship.

JOHN DEERE SPREADER



The spreader with the beater on the axle. Endless apron type. This patented construction makes these important advantages possible: Box of spreader is lower and drive wheels are higher than others—easier to load and pulls lighter. Does better work because the beater is near the ground—manure is not thrown high—side winds do not cause drifting. Revolving rake prevents bunching without increasing draft. Lasts longer. Gives years of extra service at mighty low cost.

JOHN DEERE BRIDGE-TRUSSED SAGLESS ELEVATOR



An all-steel elevator for quick transporting from one crib or bin to another. Bridge-trussed construction—a marked improvement in elevator construction—prevents sagging, heavy draft and undue wear. Roller bearings lighten draft. Wagon dump easily and quickly controlled by operator. Release of brake lowers wagon by gravity—no power required. All-steel construction insures years of satisfactory low-cost service—operated by either horses or engine. Furnished in practically any length required.

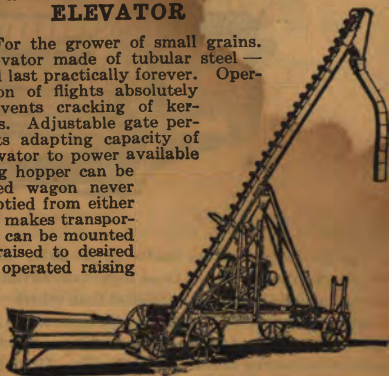
JOHN DEERE INSIDE-CUP ELEVATOR

The elevator for permanent installation in your corn crib and granary. Handles all kinds of grain, including rice and ear corn. Easy to install—no heavy built-up sections to hoist into place—no experts required. Light draft—roller bearings in both head and boot sections. Cross conveyor covered with trap door is placed beneath driveway—floor free from obstruction when elevator is not in use. Portable dump simple and effective. Elevator operated with horses or engine power. Furnished in practically any height and style required.

JOHN DEERE TUBULAR STEEL PORTABLE ELEVATOR

For the grower of small grains. Elevator made of tubular steel—will last practically forever. Operation of flights absolutely prevents cracking of kernels. Adjustable gate permits adapting capacity of elevator to power available

—a special feature. Receiving hopper can be raised—backing up of loaded wagon never necessary. Wagon can be emptied from either side of hopper. Portable truck makes transportation quick and easy. Engine can be mounted directly on truck. Elevator raised to desired height by simple and easily-operated raising device.



JOHN DEERE ONE- AND TWO-HOLE HAND CORN SHELLERS



The all-steel one-hole hand sheller with pivoted bearings makes a very durable and light-running sheller. The two-hole sheller has all-steel frame with wood body. Easy-running enough for hand power, and sturdy enough for operation with small engine. Both shellers will shell all kinds of corn clean from the cob—the blast fan removes the chaff. Capacity: No. 1-A, 10 to 20 bushels; No. 2, 20 to 30 bushels per hour.



A short elevator for sacking the shelled corn can be used on the two-hole sheller.

JOHN DEERE NO. 5 CYLINDER CORN SHELLER



Built especially to meet shelling conditions where mechanical corn pickers or lax methods of hand-picking leave the corn with excessive shuck. Special construction permits short-chain drives direct from main shaft without the use of any gears. This means quiet-running; only 50 per cent of the chain required on other makes of shellers of this class, and elimination of extra bearings. Genuine Marseilles shelling device shells clean, runs easy and is durable. Capacity, 100 to 150 bushels per hour; speed, 550 to 575 R. P. M.; power required, 8- to 10-H. P.

JOHN DEERE NO. 9 CYLINDER CORN SHELLER



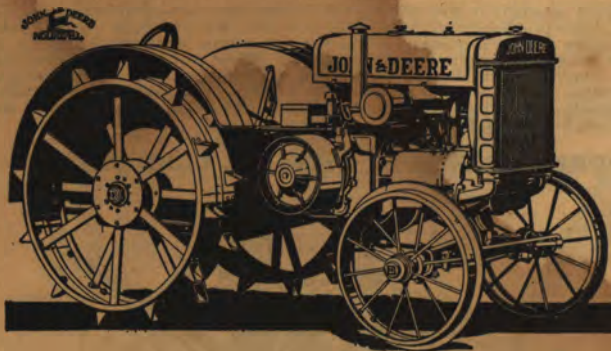
The ideal sheller for large corn-growers or for neighborhood use. Turns out from 250 to 400 bushels of thoroughly-cleaned corn per hour with only a 16-H. P. engine. Adjustable staves at both ends of cylinder permits shelling of all kinds of corn—breaks fewer cobs. Handles either husked or snapped corn. Snapped corn capacity, 70 to 100 bushels per hour. Suction fan and vibrating shoes separate husks and other foreign matter from corn. Swivel feeder set at any angle within half circle—fewer settings necessary. Built of steel—will last for years.

JOHN DEERE - MARSEILLES CYLINDER SHELLERS



Built especially for the job sheller man. Noted for big capacity, thorough shelling and clean, marketable condition in which they deliver the shelled corn. Shelling cylinder has staves that are adjustable at both ends, which permits thoroughly shelling large or small, tough or dry corn, with minimum breakage of cobs—one ear can be shelled as clean as if the cylinder was full. Vibrating shoes and blast fan clean corn thoroughly. Tailing elevator prevents loss of corn in cob pile. Husks and dirt separated from cobs. Swinging feeder—an exclusive feature—saves frequent setting. Built to last for years. Capacity, 600 to 1,100 bushels per hour. Horse power required, 24 to 28.

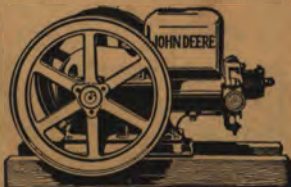
JOHN DEERE MODEL D 15-27 FARM TRACTOR



Ideal power for field, orchard and belt work. Unusually compact — only 56" high, 63½" wide, and 109" long—easy to handle. Extremely simple—from 500 to 1,500 fewer parts than most tractors. Light weight — hundreds of pounds lighter than most tractors of same size. Simple, two-cylinder, low-speed, kerosene-burning engine. Working parts, including engine, are completely enclosed in dust-proof case and operate in clean oil. All parts easy to inspect and adjust from a standing position. Belt pulley on crank shaft—no power wasted. Equipped with oil-type air-filter.

JOHN DEERE TYPE E FARM ENGINE

Contains the greatest improvements in engine-building made in years. All important working parts fully enclosed in dust-proof case are oiled automatically. No sight-feed oilers to watch—no grease cups to fill—oil reservoir requires attention only when fuel supply is replenished. No gears exposed or extending shafts on which clothing can be caught—a safe engine to operate. Extremely simple in construction—easy to start. Wearing parts on valve line and governor hardened to resist wear. Runs for years without adjustments or repairs. Magneto-equipped. Furnished in 1½-, 3- and 6-H. P. mounted on skids or on portable truck.



JOHN DEERE DIRECT-DRIVE PUMPING OUTFIT

Consists of John Deere 1½-H. P. Engine and John Deere Direct-Drive Pump Jack as illustrated. A compact outfit—no belts or gears for the stock to get into. Power to drive jack taken from flywheel of engine. Both jack and engine automatically oiled. Requires no attention.

John Deere Pump Jack

This jack can be furnished separately for operation with belt for either gas-engine or electric power. Worm and gear on jack fully enclosed. Supplies a constant and even flow of water.



JOHN DEERE FARM TRUCKS

Wood or Steel Wheels

In price, strength, draft and finish, John Deere farm trucks give exceptional satisfaction. They stand hard usage year after year because they are built right and in a factory that has an established reputation for making only the best wagons and trucks. Careful workmanship; only air-seasoned hard wood is used in their construction.

The John Deere wagon line includes: One- and two-horse farm wagons and gears, oil-pipe and teaming gears, log wagons and lumber gears, dump carts, beet gears and cane gears, rack beds, cotton beds, coal beds, shoveling boards and hand carts.



JOHN DEERE FARM WAGON



The John Deere Wagon is light-running and durable. Gears are built of *selected air-seasoned* oak and hickory; all material for beds is of the highest grade, carefully seasoned under cover. Equipped with heavy malleable fifth-wheel bolster plate with corrugated coupling; extra heavy sand- and dust-proof

skeins; full-clipped gears; heavy malleable pole housing on slip-tongue wagons; deep hind bolster; heavy cast-iron reach box; heavy self-centering box rods; angle-steel grain cleats; heavy oak bottom cleats; a guaranteed wagon that will give years of real service. The guarantee is reproduced on the tool box of every wagon sold. You'll find the specifications written in this guarantee, to protect you.

JOHN DEERE TRIUMPH WAGON



An attractive, light-running wagon of moderate price having many of the features to be found on the more expensive John Deere wagons, among them the sand- and dust-proof skeins and malleable fifth-wheel bolster plate with corrugated coupling. Clipped gears; square wood front hounds. Wheels are built

strong of high-grade material; all wood stock is thoroughly air-seasoned; oak or hickory spokes; box is firmly braced and strengthened with cross cleats and straps.

JOHN DEERE TRIUMPH WAGON BOX



Highest-grade wagon box on the market. Staple style with wide center panel reinforcements. Bottoms of high-grade narrow boards, tongued and grooved. Boxes of 10-foot 6-inch length have five hard-

wood bottom cross cleats; five box straps extending from lower side board down through bottom cross cleats; double bottoms over both bolsters; up-and-down tie rods; angle-steel grain cleats. Beveled edge top irons full length top edge of lower, top and tip-top sides, and full width of endgate. Ten- and twelve-foot boxes have four hardwood bottom cleats; no grain-tight iron liners, top box fasteners or reinforced bottom. High-grade finish; heavy anti-spreader chains.



John Deere Factories

And What They Make:

John Deere Plow Works, Moline, Illinois.

Steel Plows of all styles, Cultivators, Harrows and Listers.

Deere & Mansur Works, Moline, Illinois.

Corn Planters, Cotton Planters, Disk Harrows, Beet Tools and Stalk Cutters.

John Deere Wagon Works, Moline, Illinois.

Farm, Mountain and One-Horse Wagons, Trucks, Log Wagons, Oil-Pipe and Teaming Gears, Dump and Hand Carts.

John Deere Harvester Works, East Moline, Illinois.

Grain Binders, Corn Binders, Rice Binders, Corn Pickers, Combines, Mowers and Self-Dump Rakes.

John Deere Spreader Works, East Moline, Illinois.

Manure Spreaders, Corn Shellers and Grain Elevators of all types for the Farm.

John Deere Tractor Company, Waterloo, Iowa.

Farm Tractors, Stationary and Portable Engines, Concrete Mixers for the Farm.

Van Brunt Manufacturing Company, Horicon, Wis.

Grain Drills and Seeders of all kinds, Lime and Fertilizer Sowers and Stiff- and Spring-Tooth Field Cultivators.

Dain Manufacturing Company, Ottumwa, Iowa.

Side-Delivery and Sweep Rakes, Hay Loaders, Hay Stackers, Hay Presses, Feed Mills, Corn Cutters and Kafir Headers.

Syracuse Chilled Plow Co., Inc., Syracuse, N. Y.

Chilled Plows, Spring-Tooth Harrows, Potato Machinery, Grape and Berry Hoe, Hand Trucks, Wheelbarrows, Contractors' Plows and Drag Scrapers.

Union Malleable Iron Company, East Moline, Ill.

Malleable Iron Castings for John Deere Factories, Clevises and Specialty Castings and Heald's Riveted and Detachable Chains.

John Deere Mfg. Co., Ltd., Welland, Ont., Canada.

Hay Tools, Spreaders, Stiff- and Spring-Tooth Field Cultivators and Grain Drills for Canadian Trade.

**Standardize on John
Deere Implements—
they work better and
last longer, and you
are sure of prompt re-
pair service through-
out their long life.**



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