

JOHN DEERE QUALITY EQUIPMENT *for* YOUR FARMING OPERATIONS



Tractors

Three-plow size for the heavier farm jobs; two-plow size general purpose

type, for all farm work, including planting and cultivating. Both sizes used for drawbar, belt, and power take-off service.

Engines

A line of enclosed engines that oil themselves. Built in a variety of sizes. Special direct-drive pumping outfit. Pump jacks. Farm concrete mixer.

Wagons and Trucks



Furnished in different types and sizes to meet all farm needs.

Grain Elevators

Three types: portable and stationary types for ear corn and all small grains, including rice; portable type for small grains only. Furnished in different sizes and with equipment for operation with horses or engine power.

Corn Shellers

For hand and power use. Spring and cylinder types.

Grain Drills

Fluted force feed and double-run feed. Single- and double-disk, hoe and shoe furrow openers. All sizes from one-horse size to 25-foot size. Power lift for horse- or tractor-drawn drills. Broadcast seeders, lime sowers, fertilizer grain drills, low down press drills, deep furrow drills and endgate seeders.

Disk Harrows

Single- and double-action types in a variety of sizes for operation with horses or tractor. Special harrows for orchard, vineyard, truck garden and cover-crop work. Stalk cutters, one- and two-row.

Manure Spreaders

Both single-beater endless-apron and three-beater tight-bottom types for use with horses or tractor. Also lime-spreading attachment.



Your—
**JOHN DEERE
DEALER**
IS ALWAYS READY
TO SERVE YOU



Plows

All sizes and types for use with horses or tractors. Mold-board types equipped with genuine John Deere steel or chilled bottoms. Disk plows; middlebreakers; listing plows.

Disk Tillers in three sizes.

Planters

Four-, three-, two- and one-row sizes for planting corn, cotton, peanuts, beets, beans and other seeds. Both walking and riding types. With or without fertilizer attachment. Special 4-row beet and bean planters.

Cultivators

Four-row, three-row, two-row, and one-row styles for surface-planted crops; three-row, two-row and one-row for listed crops. Field cultivators with stiff or spring teeth. Alfalfa cultivators. Special 2-, 3-, and 4-row beet and bean cultivators. Rotary hoes. Rod weeder.

Hay Machinery

High-lift mower; power-driven mowers; side-delivery rake with special features; single- and double-cylinder and rake-bar loaders; overshot stackers; sweep rakes, all sizes; sulky rakes; motor presses; pull-power presses.

Listers

Three-row, two-row, and one-row for planting cotton, corn and other crops. Tractor-drawn and horse-drawn.

Potato Machinery

One-row horse-drawn and two-row tractor- and horse-drawn visible-feed planters, with or without fertilizer attachments. Two-row tractor diggers. One-row diggers—ground drive, engine-drive and tractor-drive. Row-crop sprayers—ground, engine and tractor drive. Disk and blade type potato hoes and hilling attachments. One- and two-row fertilizer distributors. Potato seed cutters.

Harvesting Machinery

Combines and threshers. Grain binders, corn binders, rice binders, corn pickers, for operation with either horses or tractor. Kaffir headers. Riding beet lifters.

John Deere General Purpose Tractor

*Wide-Tread Type for Potatoes
and Other Narrow Row Crops*



with
a Complete Line of
**Practical, Cost-Reducing
Equipment**

*When you buy JOHN DEERE IMPLEMENTS
YOU ARE SURE OF PROMPT REPAIR
SERVICE DURING THEIR LONG LIFE.*



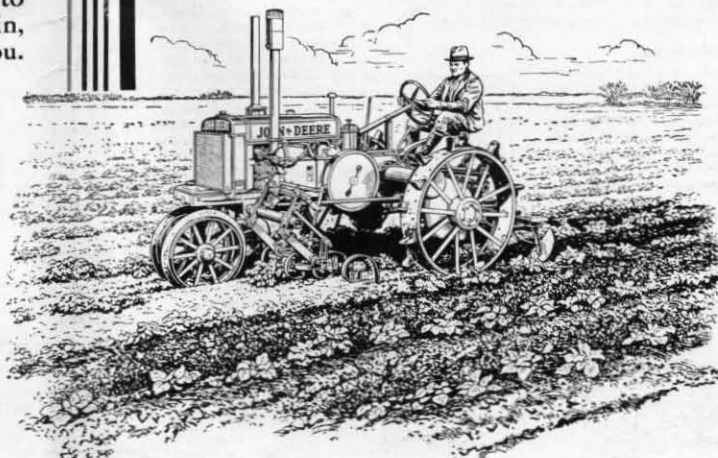
IT'S DIFFICULT TO CONTROL PRICES, BUT IT'S EASY TO CUT COSTS

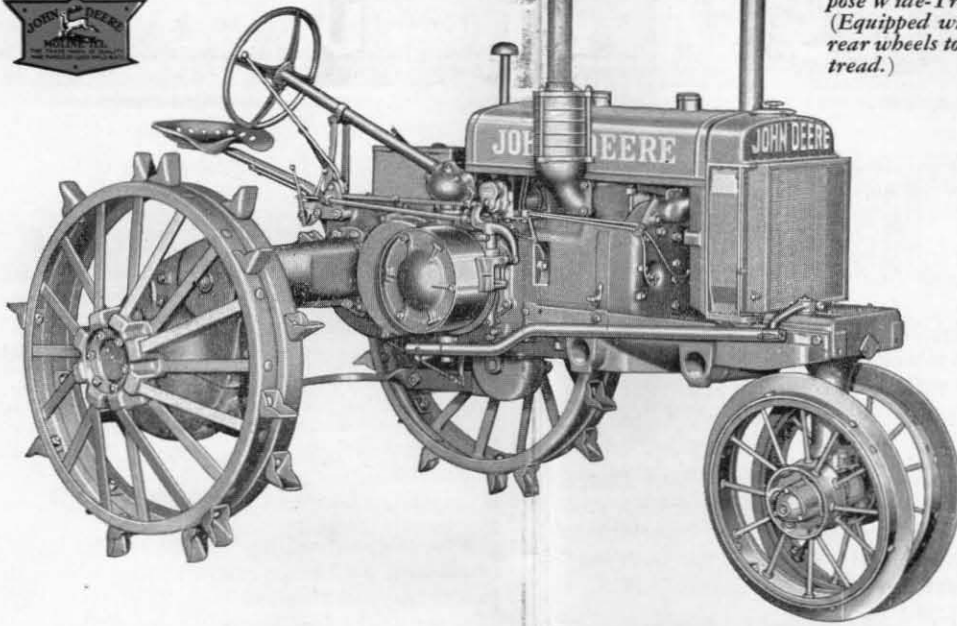
PROGRESSIVE farmers realize the necessity of raising their crops at lower costs. As a result, the farming picture is changing rapidly. Many a farmer today is using machine power to double and triple his daily capacity, to save hard work, to lower production costs.

The General Purpose Wide-Tread Tractor enables the grower of potatoes and other narrow-row crops to utilize mechanical power for *all* of his farm jobs to an extent that never before was thought possible.

With this modern tractor and equipment, he is master of his farming operations, independently carrying them on with greater speed, with greater dependability, and at lower costs.

The following pages illustrate and describe the construction of the General Purpose Wide-Tread Tractor and the equipment that can be profitably used with it, together with the many improvements. A few minutes devoted to reading these pages will give you a better idea of the adaptability of this outfit to your particular needs—how it will fit in, to make farming more profitable for you.





Showing Pulley Side of John Deere General Purpose Wide-Tread Tractor. (Equipped with new inset rear wheels to provide 68" tread.)

JOHN DEERE General Purpose WIDE-TREAD Tractor

The Tractor with the Time- and Labor-Saving Power Lift and Power Take-Off

IN THE John Deere General Purpose Wide-Tread Tractor you get all of the cost-reducing power farming advantages of the John Deere General Purpose Standard-Tread Tractor plus special mechanical features which suit it ideally to use in narrow-row crops.

Not only is the John Deere General Purpose Wide-Tread Tractor designed for efficient, big-capacity operation in planting, cultivating and digging, but its design makes it ideally fitted for all the other farm jobs within its power.

This modern tractor is designed so that its power, weight, economy of operation and durability are perfectly balanced, giving its users the maximum performance as a general purpose outfit.

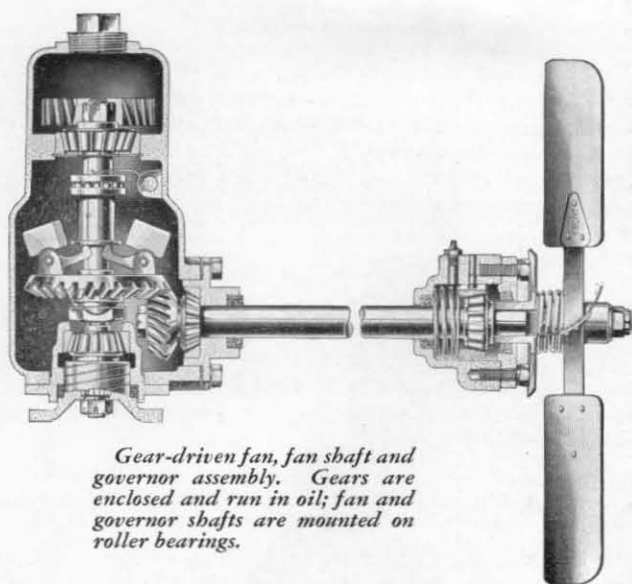
Power Lift—Fourth Power Outlet

The tractor supplies power at the drawbar and at the belt, it has a power take-off, but more than this, it has a *power lift* which starts operating by a mere touch of the foot to lift or lower cultivating equipment. The John Deere power lift operates when the tractor is standing still as well as when it is in motion.

The power take-off and power lift are distinctive and original features in tractor operation developed and contributed by John Deere. In giving to the world these labor-saving, time-saving features, the efficiency of the General Purpose Tractor is advanced to a point never before thought possible by farmers generally.

Better Performance—Greater Value Than Ever with These Improvements

1. Improved Air Cleaner (air is *DOUBLE-Cleaned*.)
2. Fuel Filtered Twice
3. Special Combination Oil Filter and Pressure Indicator
4. Combination Muffler and Spark Arrester
5. Special Crank Case Breather and Ventilator
6. New Radiator Guard
7. Adjustable Radiator Curtain
8. Improved Governor
9. "Easy-on" Fuel Filler Caps



Gear-driven fan, fan shaft and governor assembly. Gears are enclosed and run in oil; fan and governor shafts are mounted on roller bearings.

Because it has both of these features, the John Deere has the ability to do more acres of work per day, and the work will be done better because the operator is relieved of a great amount of labor and the necessity of making many adjustments.

Simple, Two-Cylinder Engine Supplies Smooth, Economical Power

A simple, two-cylinder, heavy-duty engine supplies the John Deere Tractor with its economical power. Certain improvements recently made in this engine add materially to the general performance of the tractor.

The John Deere Burns Low-Cost Fuel —a Money-Saving Advantage

The John Deere two-cylinder engine, because of its simplicity of design is especially adapted to the burning of low-cost fuels. Using low-cost fuel saves John Deere owners hundreds of dollars.

The fuel is preheated before it enters the cylinders. Because of the short distance the fuel mixture travels in reaching the cylinders, condensation is prevented; thus low-grade fuel is burned efficiently.

Fuel Is Cleaned Before Entering Carburetor

A fuel filter is standard equipment. By means of this extra safeguard, all foreign matter is eliminated from the fuel before it is admitted to the carburetor.

Strong, Well-Balanced Construction

Sturdiness is built into every part of the engine to give maximum service in heavy-duty work. For ex-

ample, the crankshaft is 3" in diameter. Only two main bearings are required. These are extra wide, $3\frac{1}{4}$ ", and only a short distance apart, $13\frac{1}{2}$ ". There is no springing of the crankshaft under the heaviest loads.

The simple, heavy-duty engine in this General Purpose Wide-Tread Tractor meets all the requirements of balance, flexibility, and smooth, steady power.

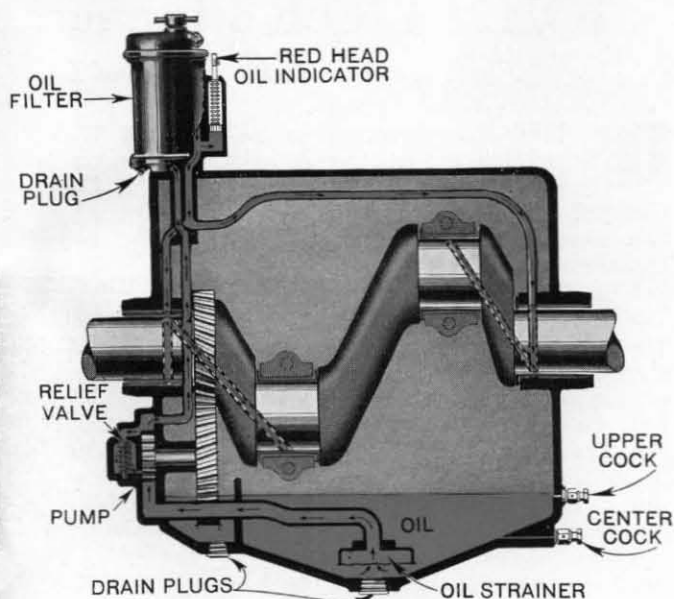
Enclosed Operating Parts Automatically Oiled

All of the important working parts on the John Deere General Purpose Wide-Tread Tractor are completely enclosed within a dust-proof case. (See Cross-Sectional View on Page 6.)

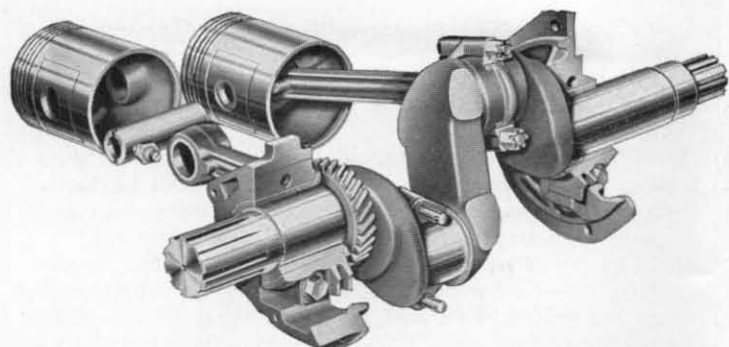
Oil reservoirs are provided in the case. Parts operating in oil carry oil to all other parts within the case, insuring thorough, automatic lubrication. It requires only a few minutes to get this tractor ready for use.

Full-Force-Feed-Pressure Lubrication System

The efficient oiling system in the John Deere is an important factor in maintaining the continuous full power supplied by the rugged engine with a minimum of wear and adjustment.



This shows the full pressure oiling system which thoroughly lubricates all parts of the engine. The gear-type pump forces oil under pressure to main bearings from where it is led through drilled crankshaft to the connecting rod bearings and through the drilled connecting rods to the wrist pin bearings, pistons and cylinder walls. All other parts are lubricated by oil thrown from connecting rod bearings.



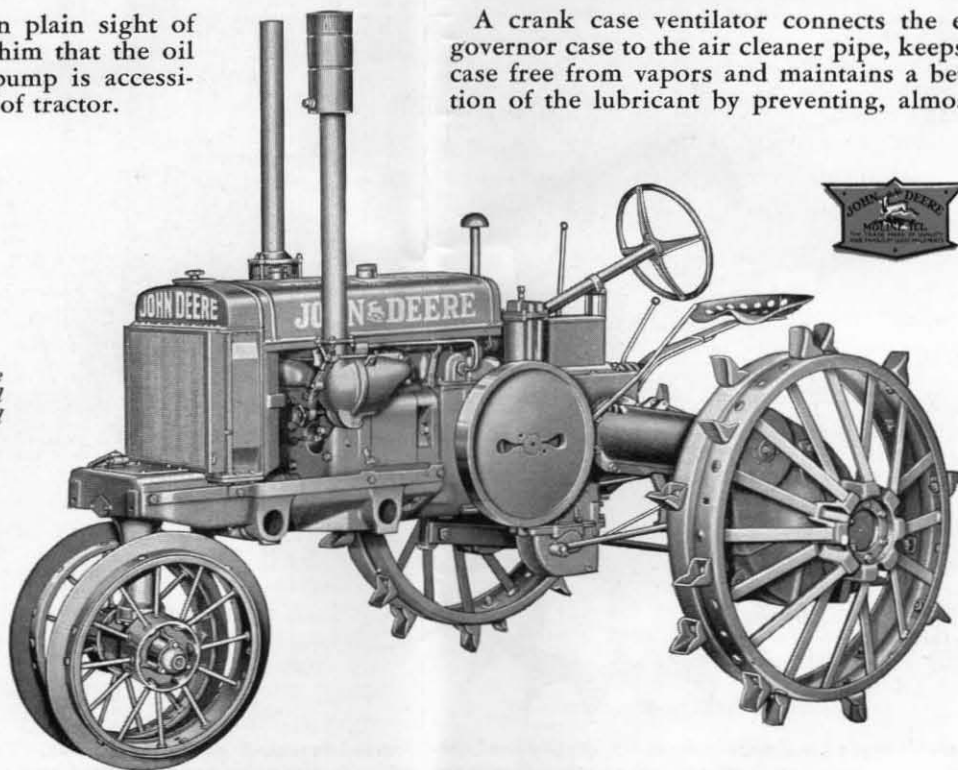
This shows the sturdiness of the crankshaft, bearings, connecting rods and pistons. Note the compact arrangement of main bearings; short distance between bearings; entire construction is compact, rugged and substantial.

Oil is forced under pressure to the main bearings, to connecting rod bearings, to the piston pins through the connecting rods, and through an additional oil pipe to the governor housing for the lubrication of all governor parts. This oil pressure is sufficient to prevent metal-to-metal contact of the crankshaft with main or connecting rod bearings, and the piston pin with connecting rod.

Oil thrown from the connecting rod bearings thoroughly lubricates all other parts of the engine.

An oil indicator in plain sight of the operator shows him that the oil is circulating. Oil pump is accessible from the outside of tractor.

Showing Flywheel Side of John Deere General Purpose Wide-Tread Tractor.



Oil Filter

An oil filter of unique design with all-metal filtering element removes all foreign particles from the oil, insuring maximum lubricating quality. Special attention has been given to the design of this filter to make it quickly accessible and easy to clean. Nothing can happen to this filter to hinder the flow of oil.

Air Thoroughly Cleaned Before It Reaches Engine

The air enters the auxiliary cleaner high above the hood where all heavy dust is removed. The fine dust remaining is removed as the air passes through the oil-soaked filter core.

This filter core is 6" in diameter and $5\frac{3}{4}$ " thick, giving ample capacity to insure thorough cleansing of all air that enters.

The importance of dust-free air upon the working life of the tractor cannot be over-emphasized, and the efficient, careful design of this feature is just another indication of the pains taken to insure long, economical service in farm work.

"Breather" and Ventilator Keep Crank Case Free from Gases and Vapors

A crank case ventilator connects the end of the governor case to the air cleaner pipe, keeps the crank case free from vapors and maintains a better condition of the lubricant by preventing, almost entirely,



dilution and the formation of sludge. This also makes it possible to burn low-grade fuels more efficiently than ever.

This forced circulation of clean air through the crank case immediately removes all gases and vapors, resulting in a clean crank case. Low-cost fuel can be burned without any harmful effects to the engine parts.

Improved Cooling System

The John Deere engine is water cooled by the simple thermo-siphon principle, using a tubular radiator. This provides heat control in the simplest, most effective way. This system does away with fan belt and water pump.

Radiator is mounted high above the cylinders, inducing a rapid circulation of water in the same manner that a high chimney gives good draft to a stove.

The cooling system has been improved to permit an even more rapid circulation of water than before. Adequate flow of water to all portions of the cylinder block and around valve ports is assured.

After starting the engine, the cylinders warm up quickly before water circulation begins, and the right operating temperature is constantly maintained regardless of load or atmospheric conditions.

Gear-Driven Fan and Enclosed Governor

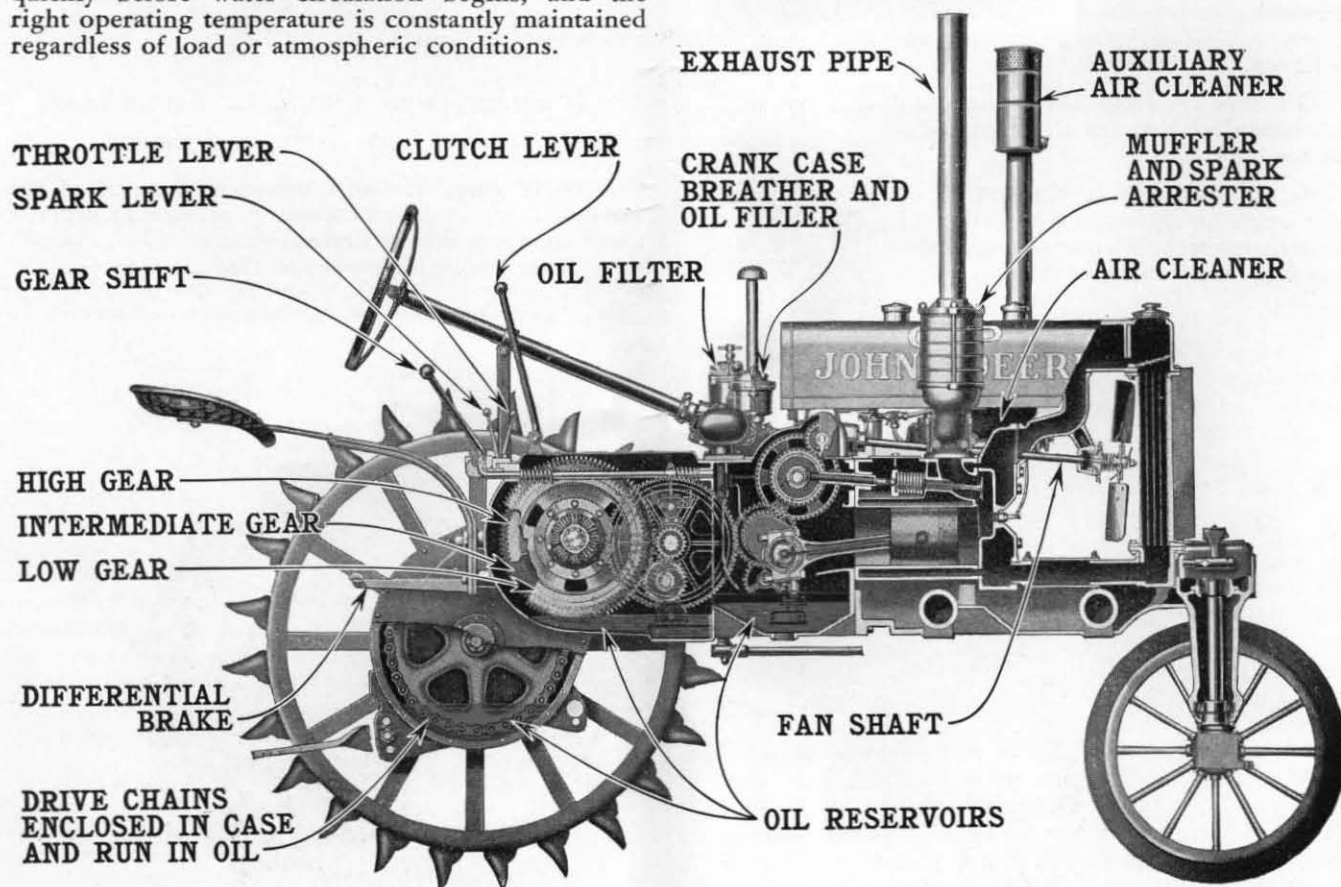
The illustration on page 4 shows the fan, fan shaft and governor with parts cut away to show bearing construction.

The improved governor on the John Deere is sensitive, steady in its action, and responds perfectly to varying loads. The governor, governor shaft and gears are completely enclosed and operate in oil.

The fan is positively driven through gears. A slip clutch on the fan prevents strain on parts when starting. The fan shaft and governor shaft are mounted on roller bearings. These parts require no attention except the front fan bearing which is oiled through a special fitting with the pressure grease gun.

Easy to Keep in Good Running Order

While all of the working parts are completely enclosed, they are easy to get at from a standing position, and all adjustments are easy to make on the farm. You won't need to hire a mechanic to keep the John Deere in good running order.



This cross-sectional view shows the simplicity of the John Deere General Purpose Wide-Tread Tractor. The parts shown in red, excepting front wheel bearings, are automatically oiled within the dust-proof case.

Easy to Steer

The steering control on the John Deere General Purpose is built for the kind of service you want—to insure easy, accurate steering for years to come.

The worm and gear in the steering control are made of steel, with machine-cut teeth, and are heat-treated and hardened. The thrust on the worm is carried on roller bearings. Each joint in the steering mechanism is provided with a take-up adjustment that can be quickly and easily made to maintain original quick, positive guiding action.

The balls on the steering arms and the sockets in the drag link and tie rod are machined accurately, fit perfectly and are hardened to reduce wear. All joints are provided with fittings for pressure oiling and can be effectively lubricated with the grease gun furnished.

The front wheels are easily and permanently controlled through two hardened, forged steel gears enclosed in a dust-proof housing in the front pedestal. These gears operate constantly in a bath of oil.

Differential Brakes Permit Short Turns

The John Deere General Purpose is provided with a differential brake on each drive wheel, making it possible to turn in an 8-foot radius to either right or left. (See illustration above.)

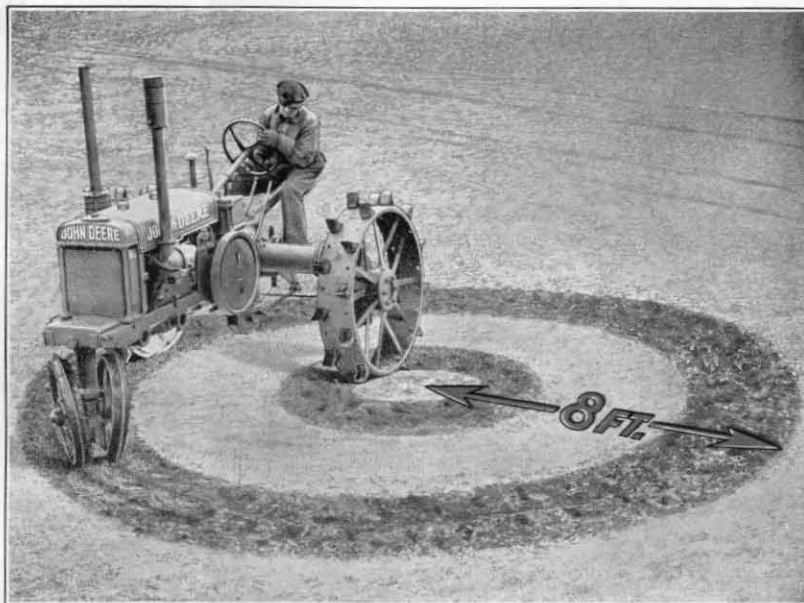
This feature is a big advantage particularly in planting, cultivating and mowing.

These brakes also serve in locking the drive wheels when operating belt machinery.

Power-Saving Transmission

Only two spur-gear reductions are used to transmit power to the double-roller chain final drive. Parallel shafts mounted on ball and roller bearings are held in permanent alignment by the rigid, one-piece case.

The location of the engine on the John Deere is such that the power from the engine to the double-roller-chain final drive is transmitted in a direct line through straight spur-gears. Loss of power through end-thrust, binding, or improper meshing of gears is entirely overcome. This construction makes possible simpler design—fewer friction-making parts. (See cross-sectional view, on opposite page.)



Differential brakes make it possible to turn in an 8-ft. radius, either to right or left.

Double-Roller-Chain Final Drive

The double-roller-chain final drive is another reason for the superior performance of the John Deere Tractor. The large number of teeth engaged reduces pressure and prevents wear. (See page 6.) The chain and drive wheel both pull forward; the slack side of the chain, running in oil, not only lubricates itself, but carries oil over the sprockets and lubricates other parts of the transmission; very little power is lost in the final drive.

This high-grade roller chain, made of hardened steel, has a breaking strength of 30,000 pounds, but in operation it is given a working load of only about 3,000 pounds. It will more than last the life of the tractor.

Roller and Ball Bearings

The purpose of good bearings is to reduce friction. The John Deere is fully equipped with roller and ball bearings. For example, the rear axles, the differential shafts, the spline shaft, the front wheels, the fan shaft, the governor shaft, the belt pulley, all are mounted on either roller or ball bearings. All bearings operate in oil and are fully protected from dust and dirt.

Weight of Tractor Properly Distributed

Careful attention has been given to the balance or weight placement of the John Deere General

Purpose Tractor. Good stability is assured under widely-varying operating conditions. In emergencies, where it is desired to utilize the full power of the tractor, this feature is especially appreciated.

Hand Operated, Dry Plate Clutch

The power of the engine is engaged by means of a dry plate clutch, which is easy to operate from the tractor seat or from the ground. The clutch can be so engaged as to pick up the maximum load gradually and positively. It locks in or out, not only making it safer, but requiring only one man to back the tractor up to machines when attaching to drawbar.

The clutch facings are inexpensive and are practically the only clutch parts that ever need replacing. These facings *float* in the clutch—they are not fastened with

rivets—and therefore can be quickly and easily replaced.

In adjusting the clutch there are only three studs with nuts through which the adjustment is made. You can adjust the clutch from a standing position from the outside—a simple, quick, easy job.

Belt Pulley Mounted on Crankshaft

The pulley is a part of the engine. Mounted on the crankshaft, it delivers every available ounce of engine power to the belt. It is on the right side of the tractor in plain view of the operator, running in the right direction for a crossed belt.

The lower side of pulley is 26 inches from the ground, which provides ample clearance above the ground. The pulley can be left on the tractor regardless of the work that is being done.

Easy to Operate

Getting up on the comfortable seat you find all of the controls on tractor and the equipment within easy reach.

With the hand-operated clutch you have perfect control of the tractor's power, utilizing it at the speed desired for the job that is being done. It does not require an experienced operator to get highly satisfactory results with this outfit.

Three Forward Speeds, One Reverse

Three forward speeds, $2\frac{1}{4}$, 3 and $4\frac{1}{8}$ miles per hour, are provided to meet every operating condition.

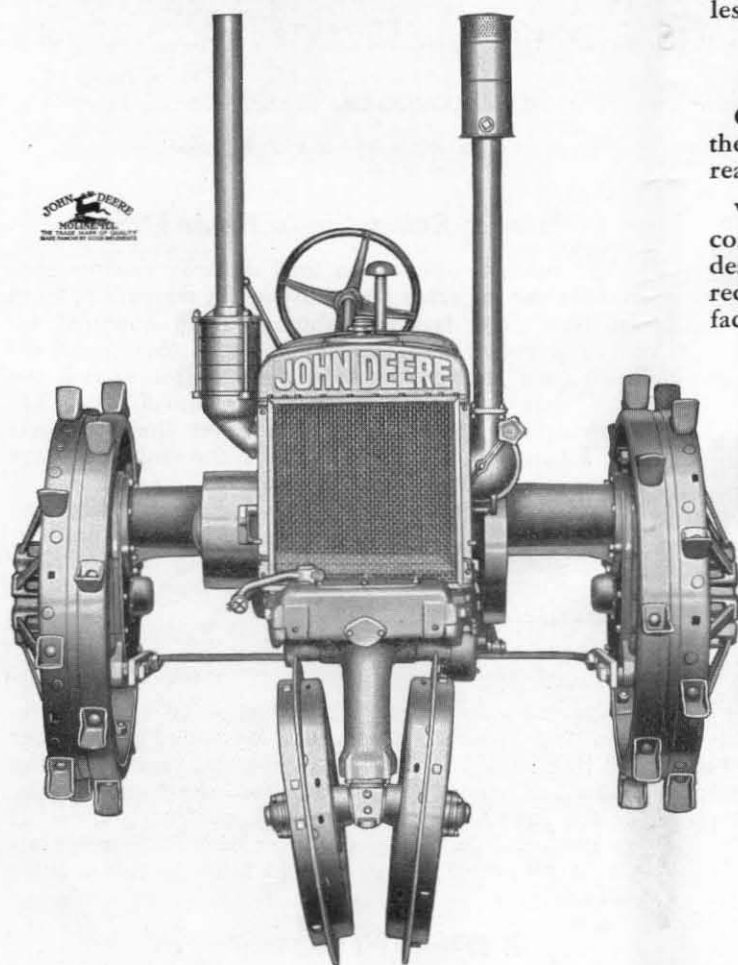
Muffler and Radiator Guard and Curtain

The muffler now furnished as regular equipment further adds to the operator's comfort by materially deadening the sound of the exhaust. The quiet, smooth operation of the John Deere engine wins quick approval. This muffler also acts as a spark arrester. Its outlet is high above the engine so that all fumes from the engine are carried well up over the operator's head.

The muffler and the specially-designed radiator guard and curtain can be seen on the views of the tractor on pages 3 and 5.

The advantage of a radiator guard to prevent damage to the radiator fins and tubes from stalks, brush, and the like, is generally appreciated.

The radiator curtain is a valuable accessory in the controlling of engine temperature.



Front view John Deere General Purpose Wide-Tread Tractor. This view shows the inset construction of the rear wheels. In cultivating the drawbar is removed, thus giving plenty of rear axle clearance.

ONE-MAN, POWER-LIFTED WORKING EQUIPMENT DESIGNED FOR EXCLUSIVE USE WITH THE JOHN DEERE GENERAL PURPOSE WIDE-TREAD TRACTOR

ON THE pages that follow, you will find illustrated and described some of the special working equipment built by John Deere for use with the General Purpose Wide-Tread Tractor. As in the tractor, important improvements have been made in this equipment, resulting in greater strength and durability, better performance and better work.

Although space does not permit showing all of the John Deere equipment that can be used with this versatile tractor, you are sure of finding, in the complete John Deere line of power-operated equipment, just the right outfit for quick, dependable, and low-cost handling of every important job on your farm.

The New GP-250 Series Power-Lifted Cultivators

Cultivating is always one of your biggest jobs, but you will find it easy to keep ahead of the weeds and the weather with one of these two-row, one-man-operated outfits on your place.

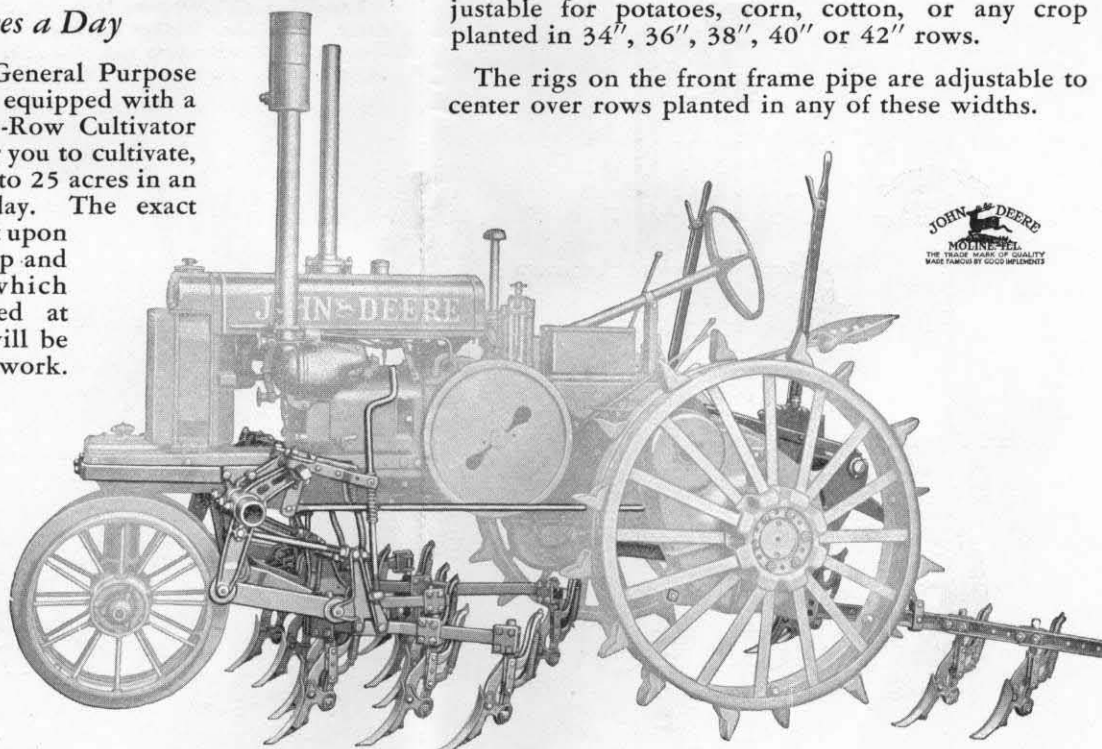
15 to 25 Acres a Day

The John Deere General Purpose Wide-Tread Tractor equipped with a GP-250 Series Two-Row Cultivator makes it possible for you to cultivate, thoroughly, from 15 to 25 acres in an ordinary working day. The exact acreage is dependent upon the height of the crop and field conditions, which determine the speed at which the tractor will be operated for the best work.

Cultivators Adjustable for Five Different Row Widths

The John Deere GP-250 Series Cultivators are adjustable for potatoes, corn, cotton, or any crop planted in 34", 36", 38", 40" or 42" rows.

The rigs on the front frame pipe are adjustable to center over rows planted in any of these widths.



GP-256 John Deere Two-Row Power-Lifted Cultivator, adjustable for 34", 36", 38", 40" and 42" rows. Note the outstanding simplicity that marks all cultivators of the John Deere GP-250 Series. This GP-256 Cultivator has round-shank, open-sleeve, spring-trip rigs. Front rigs carry 11 shovels; rear rigs, 4 shovels. John Deere-Syracuse Hilling Attachment can be used instead of rear rigs. Vine turners can be furnished, if desired.

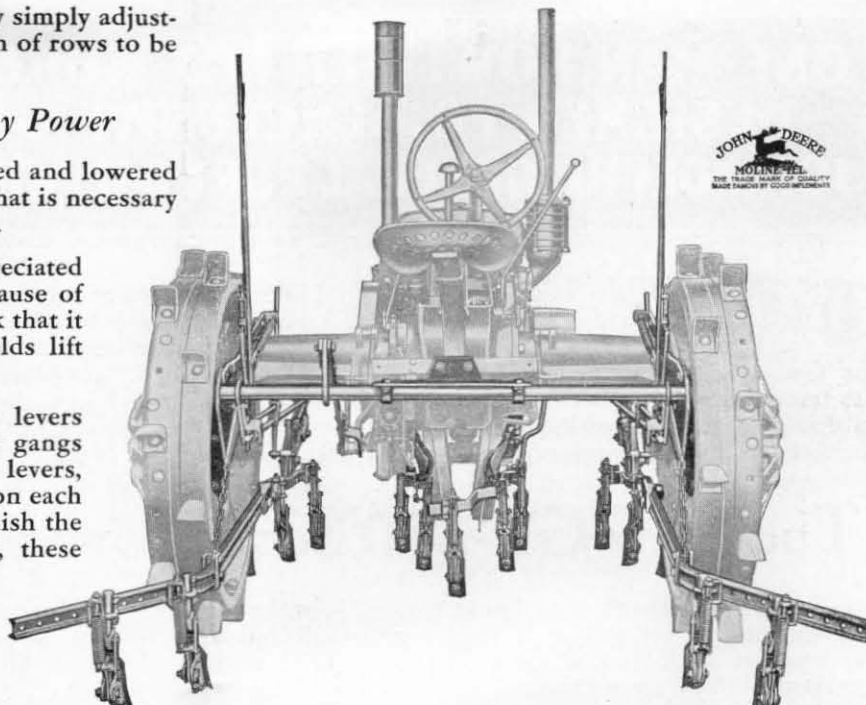
Changes in the rear rigs are made by simply adjusting the shanks to conform to the width of rows to be cultivated.

Rigs Raised and Lowered by Power

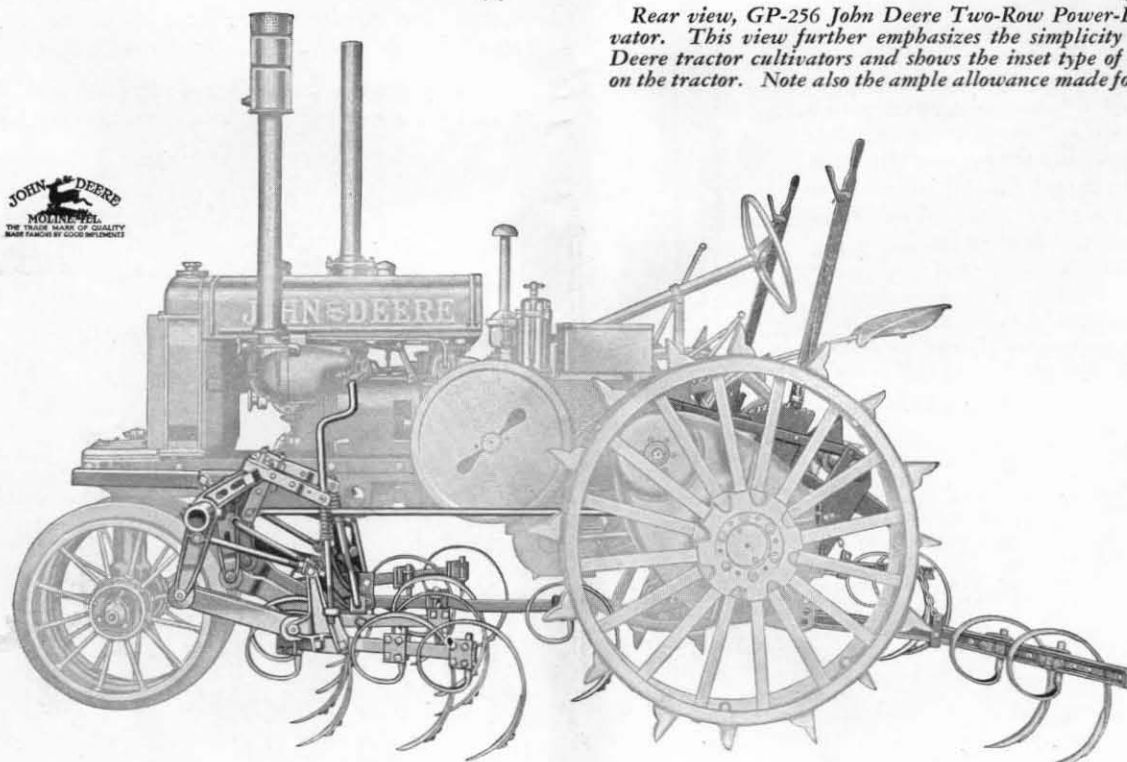
All of the cultivator rigs can be raised and lowered by the power lift on the tractor. All that is necessary is simply to touch the handy foot trip.

This is an outstanding feature, appreciated by every owner of a John Deere because of the vast amount of time and hard work that it saves at the row ends. Rigs and shields lift high and level.

In addition, there are two handy levers which can be used for lifting the rig gangs for each row separately. These two levers, which are conveniently located, one on each side of the tractor operator, also furnish the depth control. Like the power lift, these levers operate either while the outfit is standing still or in operation.



Rear view, GP-256 John Deere Two-Row Power-Lifted Cultivator. This view further emphasizes the simplicity of the John Deere tractor cultivators and shows the inset type of wheels used on the tractor. Note also the ample allowance made for clearance.



GP-254 John Deere Two-Row Power-Lifted Cultivator. As you will note, this outfit has spring-tooth rigs instead of spring-trip. Can be used with front section only, (consisting of four rigs with 11 spring-tooth shovels) or with both front and rear sections. Rear section is made up of two rigs, each having 2 spring-tooth shovels. John Deere-Syracuse Hilling Attachment can be used instead of rear rigs. Vine turners can be furnished, if desired.

Rigs Have Independent Adjustment

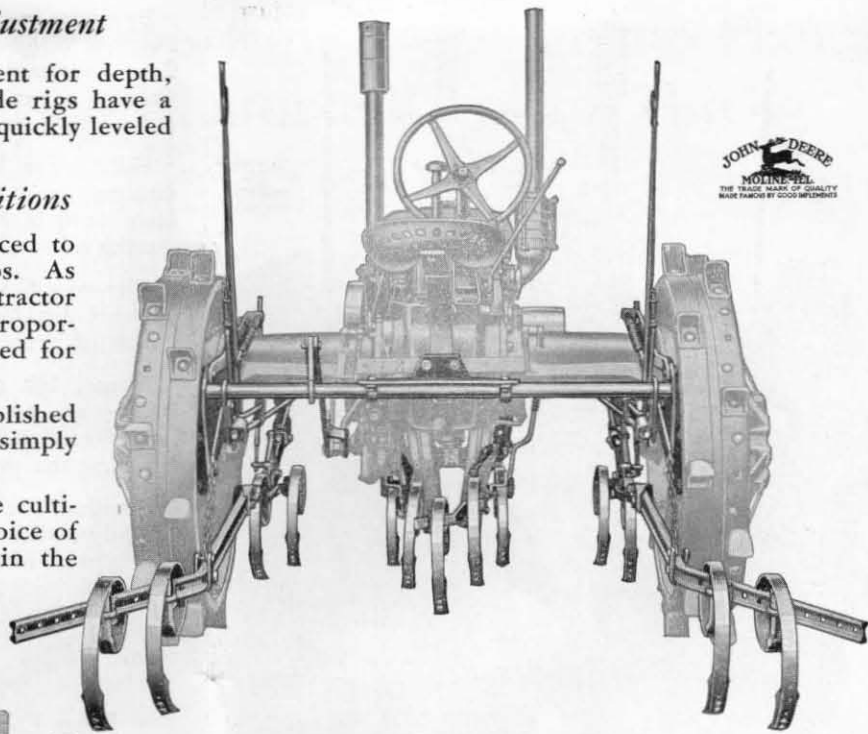
Each rig has independent adjustment for depth, leveling and tilting. The two outside rigs have a screw crank adjustment so they may be quickly leveled to conform with the inside rigs.

Easy to Meet Field Conditions

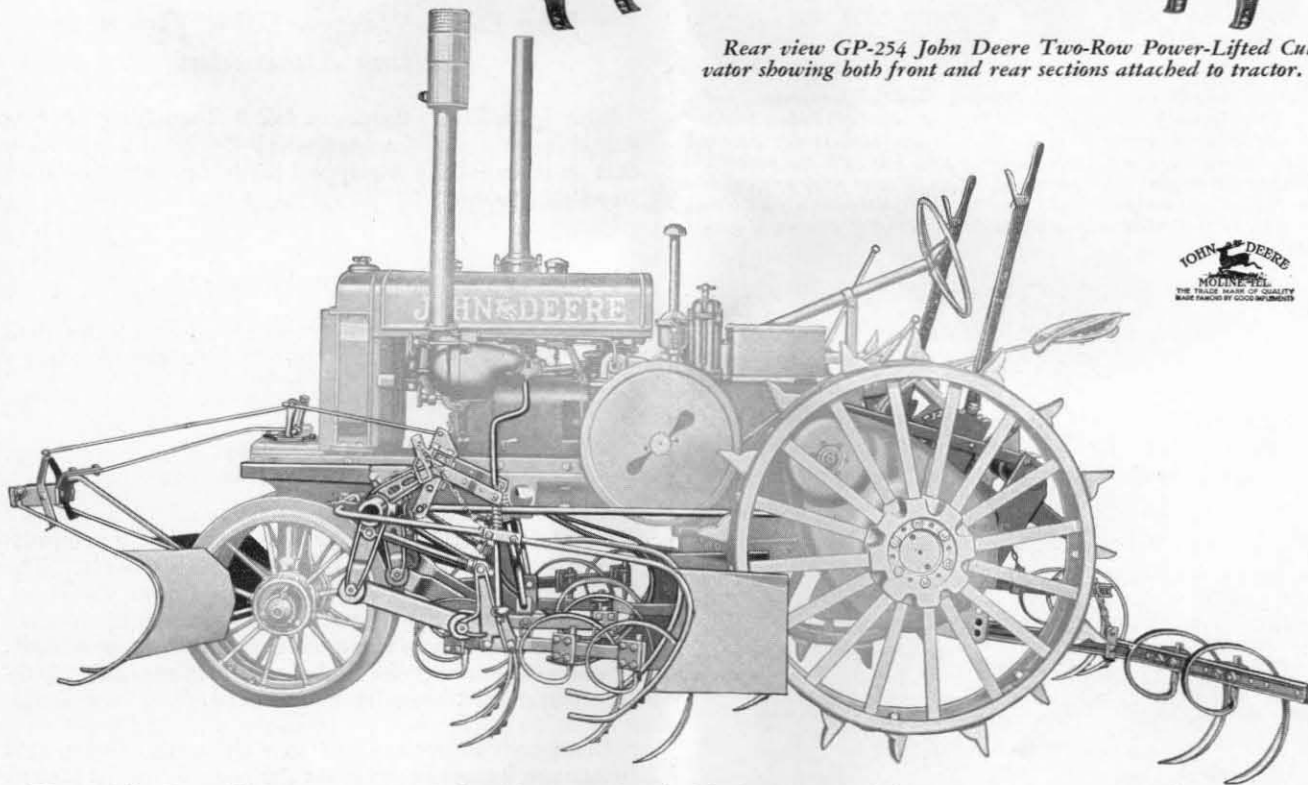
The speed of the tractor can be reduced to do good work in small or weedy crops. As the crop progresses, the speed of the tractor and acreage per day can be increased proportionately. Ample clearance is provided for all crops in these outfits.

Dodging in crooked rows is accomplished as easily as with a horse cultivator by simply steering the tractor.

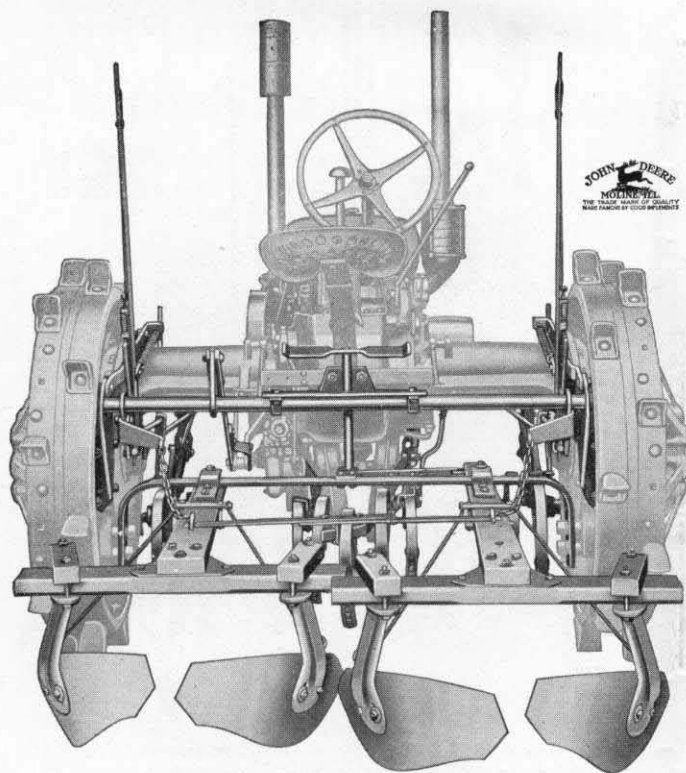
A platform is a regular part of the cultivator, so that the operator has the choice of standing on the platform or sitting in the tractor seat. Either position is handy for operating the outfit.



Rear view GP-254 John Deere Two-Row Power-Lifted Cultivator showing both front and rear sections attached to tractor.



GP-254 John Deere Two-Row Power-Lifted Cultivator equipped with vine turners. These vine turners consist of three units which attach directly in front of the tractor wheels. The vine turners float along under the potato or other vines and through a semi-circular loop with shield attached, turn the vines gently to the side away from the wheels. The vine turners lift and drop with the cultivator rigs when power lift is operated.



GP-253 John Deere Two-Row Power-Lifted Cultivator equipped with John Deere-Syracuse GP-7 Hilling Attachment (Potato Hoe.) This attachment has proved immensely popular among potato growers because of the effective way in which it hills the potatoes at the same time they are cultivated. Can be used with any cultivator of the John Deere GP-250 Series. This same hilling attachment can be furnished with disk billers instead of blades, if preferred.

Equipment

Rig styles for the GP-250 Series Cultivators are described under the illustrations of the various outfits. Cultivator shields are furnished as regular equipment.

Hilling attachment can be furnished for all of the cultivating outfits shown, if desired. The hilling attachment or potato hoe, as it is often called, is used for hilling potatoes at the same time that you cultivate.

John Deere-Syracuse GP-7 Two-Row Hilling Attachment

The John Deere-Syracuse GP-7 Two-Row Hilling Attachment or Potato Hoe is a practical, field-proved, new idea in power farming equipment.

By its use in connection with the John Deere General Purpose Wide-Tread Tractor and GP-250 Series Two-Row Cultivators, a complete cultivating and hilling operation can be accomplished with speed and efficiency, two rows at a time.

Field tests have proved the adaptability of this equipment to a variety of conditions, and those who have used it are enthusiastic in their praise of the quality of work it will do.

The two beams, each carrying two blades, are adjustable on the tractor drawbar to conform with width of row.

Power lift on tractor raises and lowers beams. Beams are staggered, permitting the blades on left hand beam to be ahead of those on right hand beam, insuring the proper clearance in center.

Standards are of strong, ribbed "Syracuse" iron and are adjustable on cross beams to regulate the width and type of hill preferred.

Blades are of high quality plow steel and are equipped with a tilting adjustment for regulating penetration.

John Deere-Syracuse GP-8 Two-Row Hilling Attachment

The John Deere-Syracuse GP-8 Two-Row Hilling Attachment is the same as the GP-7 with the exception that it is regularly equipped with 18-inch disks instead of blades.

Interchangeable Parts

The blade-type hoe may be changed to the disk type, or vice-versa, by purchasing the necessary parts.

Vine Turners

Vine turners can be furnished for all cultivators of the GP-250 Series, each set consisting of three units which connect in front of the tractor wheels. The John Deere vine turners float along under the vines, and through a semi-circular loop with shield attached turn the vines gently to the side, away from the wheels. These vine turners lift and drop with the cultivating rigs when the power lift is operated.

In spraying, as well as in cultivating, these vine lifters can be used to protect the vines from the tractor wheels. All that is necessary is to remove the cultivator rigs, leaving the frame and vine turners intact on the tractor.

John Deere-Hoover Two-Row *Visible* Potato Planter with Fertilizer Distributor and Tractor Hitch



John Deere-Hoover Two-Row Potato Planter with Fertilizer Distributor and Tractor Hitch. Note special quick-turn sliding hitch below.



*Strongly Built; Well-Balanced; Accurate in Both
Planting and Fertilizing*

Here is the famous John Deere-Hoover Two-Row Potato Planter with Fertilizer Distributor. Teamed up with the John Deere General Purpose Wide-Tread Tractor this equipment provides the large potato grower with a swift, accurate planting outfit.

Double Trip Automatic Seed Control Insures Accurate Planting

An exclusive John Deere-Hoover feature—the *double trip* automatic seed control—automatically controls the quantity of seed in the picking chamber so that the concaves and picker points will operate to the best possible advantage for accuracy in planting. One lever controls the furrow opener and disk coverers of each unit. Planter can be set for various planting depths; spring pressure keeps the furrow openers at the proper depth; the covering disks are adjustable as to width, angle and depth.

Easy to Change Dropping Distance

Changing the dropping distance is very simple; sprocket wheels for various spacings can be furnished as follows: 7, 8, 9, 11, 13, 14½, 16, 17½, 19½, 22, 24 and 30 inches. These sprockets can be applied without dismantling machine or removing drive wheels.



The John Deere-Hoover Quick-Turn Sliding Hitch—an exclusive John Deere-Hoover feature—permits quick, short turns at row ends.

Puts Fertilizer Where Desired— Mixes Thoroughly with Soil

The Hoover Fertilizer Attachment puts the fertilizer where it will do the most good for the growing crop without the possibility of injuring the seed.

The fertilizer is released over revolving disks and enters galvanized steel tubes which convey it to both sides and in front of the furrow opener. After the fertilizer is deposited in the furrow and on the ridge left by the double disks, the furrow opener shoe splits this ridge, causing the soil and fertilizer to become thoroughly mixed. This prevents any fertilizer from coming in contact with the seed.

Each hopper holds approximately 300 pounds of fertilizer. The quantity of fertilizer can be regulated so that any desired amount from 200 to 3,400 pounds per acre can be used. Special attachment to distribute from 75 to 3,400 pounds per acre can be furnished. The mechanism operating the fertilizer attachment automatically throws out of gear when the furrow opener is raised.

Each Half of the Two-Row Machine Acts Independently of the Other

Each half of the John Deere-Hoover Two-Row operates independently of the other. This enables the operator to control the depth of planting to suit the uneven conditions of the ground. Both of the controlling levers are within easy reach of driver.

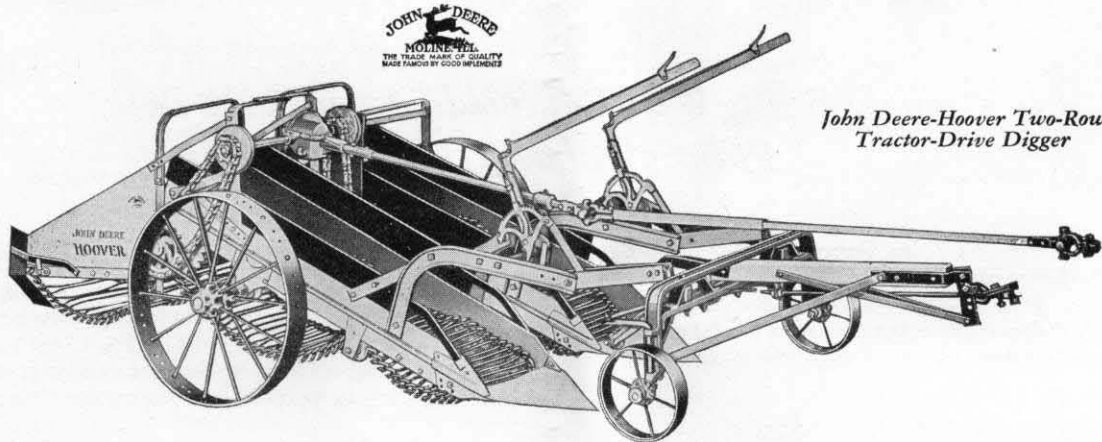
Adjustable for Different Width Rows

Four sizes of frames are furnished, each with three different adjustments of row widths—one having adjustment to 28"—30"—32", another 32"—34"—36", another 36"—38"—40", and still another 38"—40"—42".

Strongly Built; Well Balanced; Light Draft

This planter is made with a solid reinforced angle- and channel-steel frame which carries all the center weight without placing additional strain on the axle.

The extremely light draft of the John Deere-Hoover is accounted for by the large wheels with six-inch tires, the light weight of the planter, and the proper design of the picking mechanism.



John Deere-Hoover Two-Row Tractor-Drive Digger

John Deere-Hoover Two-Row Tractor-Drive Digger

The Two-Row Digger, shown above, provides the great capacity necessary for low-cost potato harvesting with tractor power.

The two heavy-duty units are mounted independently of each other upon a heavy, 2-inch, cold-rolled steel axle and controlled independently by convenient, easily-operated levers within reach from the tractor seat.

This digger has the strength you should have in power equipment. Heavy, double angle steel frame is, by far, the strongest ever built into a potato digger. Elevator flights are of special design—heat treated for greater strength. Heavy, broad, crucible-plow-steel shovel has ample strength to dig potatoes as deep as any mechanical planter will plant them.

Two-Row Digger at Work



Digging time and labor costs are greatly reduced with this tractor-drawn outfit.

Power Take-Off Supplies Adequate, Steady Power

The power take-off attachment which attaches to the power take-off on the tractor, operates the elevating and separating mechanisms. Two adjustable automatic release clutches for the elevator drive—one for each drive chain—provide the safety factor to prevent damage to parts in case elevator should become clogged.

Depth Control

Proper depth is maintained at all times by two wheel front trucks which act as gauge wheels, insuring even depth under irregular surface conditions.

Places Potatoes in Single Row If Desired

The John Deere-Hoover Two-Row Tractor-Drive Digger can be adjusted to place the potatoes in a single row or in two rows, as desired.

A Light-Draft Digger

Draft is exceedingly light owing to the absence of all non-essential moving parts and the high 36-inch wheels with wide tires.

Built in Standard Lengths and Widths

The John Deere-Hoover Two-Row Tractor-Drive Digger is built in 7- and 8-foot lengths and 22- and 24-inch widths for row widths ranging from 34 to 40 inches. With the popular types of separating mechanisms—rod elevator, riddle elevator, agitating rear rack and extension elevators—this digger is adaptable to the varied conditions of potato-growing sections.

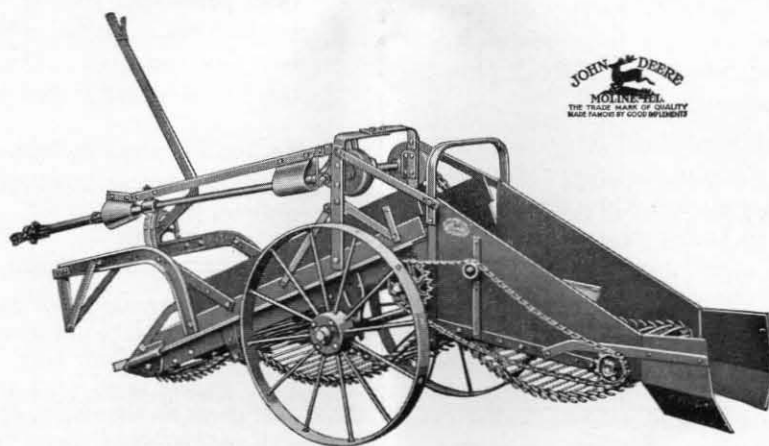
Rolling coulters, stone guards, and earth spreading attachments can be furnished as extras if desired.

The John Deere-Hoover One-Row Tractor Drive Digger

The one-row digger, illustrated below, has the same general features of strength and efficiency as the two-row digger. The power take-off attachment is mounted right on the digger and transmits the power from the power take-off on the tractor to operate the digger elevator. Adequate, steady power is provided, resulting in excellent separation of vines and trash from the potatoes.

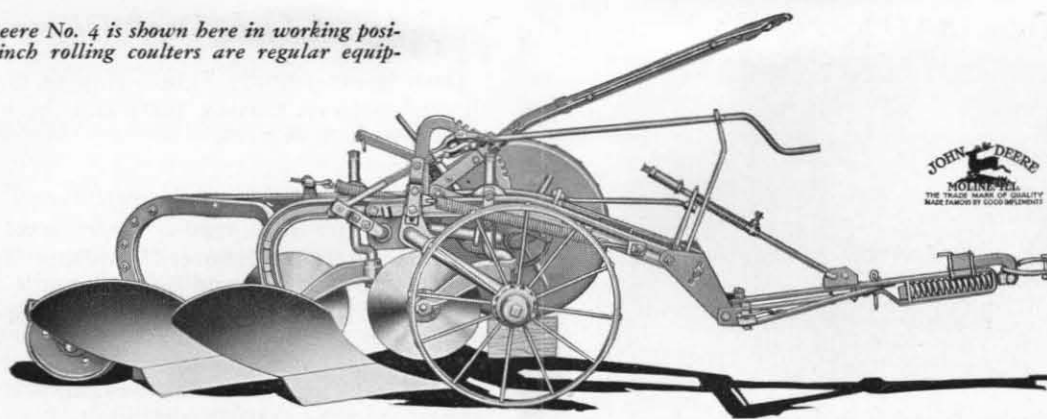
Convenient depth control lever, placed within easy reach of the tractor seat, makes this strictly a *one-man* outfit.

Can be furnished with or without single roller or two-wheel front truck.



John Deere-Hoover One-Row Tractor-Drive Potato Digger.

The John Deere No. 4 is shown here in working position. Fifteen-inch rolling coulters are regular equipment.



John Deere No. 4 Tractor Plow

—a Strong, Light-Draft, Two-Bottom Plow, Ideally Suited for Use with John Deere General Purpose Tractors

Brings You These Valuable John Deere Plow Features

1. *Genuine John Deere Steel* or John Deere-Syracuse *deep chilled bottoms*, famous for long life and good work wherever moldboard plows are used.
2. *Quick-Detachable Shares*, strong and close-fitting. Loosen one nut to remove share; tighten same nut and share is on tight *and stays tight until you remove it*.
3. *Greater Strength* in every vital part. The No. 4 will give years of satisfaction in even your most difficult plowing conditions.
4. *Constant Power Lift*: Regardless of depth of plowing, bottoms rise to the same high position when lifted out of the ground. Lift parts are simple, sturdy and long-lived.
5. *Greater Clearance*: 23 inches from share-points to beams. Fore-and-aft clearance in proportion.
6. *Easy Operation*: All controls are within easy reach from tractor seat regardless of plowing depth. Master lever is adjustable.
7. *Cushion Spring Release Hitch* protects both plow and tractor when a field obstruction is met or when the strain becomes too great. Pin-break hitch can be furnished if desired.
8. *Rolling Landside* rolls rear weight on greased bearing. No dragging friction on bottoms.

Sizes:

2-Bottom, 12-Inch, 24-Inch Cut. 2-Bottom, 14-Inch, 28-Inch Cut. 2-Bottom, 16-Inch, 32-Inch Cut.

Remember, this tractor will not only do all the jobs illustrated on these pages, but it will pull the harrow, the baying and harvesting machinery, operate belt machinery—in fact it will do all jobs on the farm that are within its power range.

What Potato Growers Say

about the John Deere General Purpose Wide-Tread Tractor



"Larger Crop—Better Quality"

Although this was considered an adverse growing season for potatoes, I never grew a larger crop per acre or produced as good quality as this year. I believe these results were due largely to the looser seed bed and better cultivation which the tractor made possible.

GEORGE J. BROWN, Presque Isle, Maine.

"One Man Handles Tractor and Cultivator with Ease"

I bought my John Deere Wide-Tread Tractor in March of 1930. The features that particularly appeal to me are the power take-off, the power lift, short turning and the ability to do general farm work. One man handles the tractor with cultivator and hoe in potatoes with perfect ease. The two-row digger does a fine job; also the power take-off mower.

W. H. WINSLOW AND SONS,
By A. P. Winslow,
Presque Isle, Maine.

"Most Satisfactory"

This tractor has been the most satisfactory piece of machinery I have ever owned. It has operated at unusually low costs and given satisfaction in every way.

L. J. JONES, New Church, Virginia.

"Great Saver of Time, Money and Labor"

We certainly are well pleased with the performance of our John Deere Wide-Tread Tractor. It surely is a great saver of time, money and labor, and we would not want to farm again without one.

DONAHUE BROS., Southold, New York.

"No Trouble—No Repair Cost"

I wouldn't be without my John Deere. It gives me no trouble; I've had no repair cost; and it has good power. I can get my work done better and quicker than I could with horses. Saved one man's wages all last summer.

WM. ASHLEY, Presque Isle, Maine.

"Good Work"

I used a John Deere General Purpose Wide-Tread Tractor on most all of the work on about 40 acres of potatoes in 1930. I like the good work done by the tractor, the time and labor it saves, and the fact that it enabled me to more than double my acreage.

C. E. SARGENT, Atkinson, Maine.



First cultivation with John Deere Two-Row Tractor Cultivator and GP-7 Hoe on the H. L. Baker farm near Bath, Maine.



50 acres of potatoes on the farm of Eugene Rich, Charlestown, Maine, planted with a John Deere-Hoover Planter and cultivated with a John Deere Two-Row Cultivator and GP-7 Hoe.

"O. K. in Every Respect"

I am more than pleased with my John Deere General Purpose Wide-Tread Tractor and have found it O. K. in every respect.

I have cultivated and hoed my 52 acre field of potatoes in two days of working time. I did all my haying with it and am now threshing with it. Have used it to haul my spreader, and have never had a minute's trouble or a cent's repair expense on it.

J. E. BUBAR, Ft. Fairfield, Maine.

"Never Got a Better Yield"

Although this is considered a very poor potato year (1930) I never got a better yield per acre. I consider the deep cultivation I got with my John Deere Wide-Tread Tractor is largely responsible.

We have averaged about 14 to 15 gallons of fuel oil per day, which can be purchased in this locality at just about one-half the cost of gasoline. We find the tractor has a world of power and is satisfactory in every way.

F. L. SCOTT, Presque Isle, Maine

"No Trouble"

I have had no trouble so far, and any one who is using John Deere tractors that I talked to seems satisfied.

FREEMAN FISHER, Ft. Fairfield, Maine.

"Likes Simplicity of John Deere"

We can get the soil fitted better and crops planted, cared for, and harvested better. The simplicity of the John Deere makes it possible for man operating tractor to make adjustments without calling in expert help.

FRANK H. BARNEY, Gerard, Pennsylvania.

"Ideal for Potato Grower"

I find that the John Deere Wide-Tread is the ideal tractor in every respect for the potato grower. I like this tractor better and better every time I work with it.

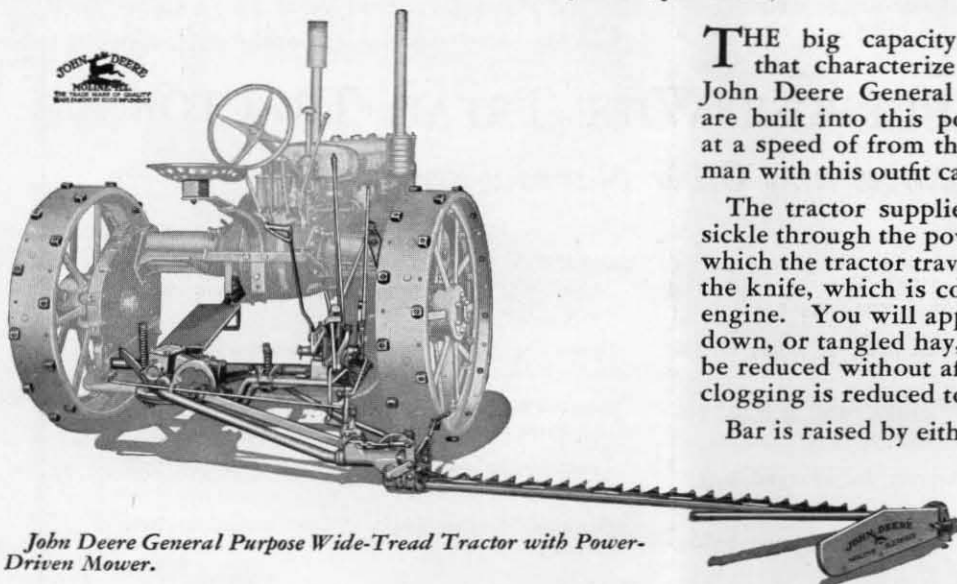
PETER POWERS, Presque Isle, Maine.



Digging the 1930 potato crop on the farm of Mr. A. L. Snowman, near Pittsfield, Maine. The John Deere General Purpose Wide-Tread Tractor and the Two-Row John Deere-Hoover Potato Digger, operated by power take-off on the tractor, averaged an acre every two hours, digging an average of 103 barrels to the acre. Mr. Snowman says, "the John Deere Wide-Tread Tractor with the complete potato equipment went through the season with practically no expense or delay for repairs. In my estimation the John Deere organization has developed an outfit that is unsurpassed."

Power-Driven Mower Attachment for John Deere General Purpose Wide-Tread Tractor

(Cuts a 7-foot Swath)

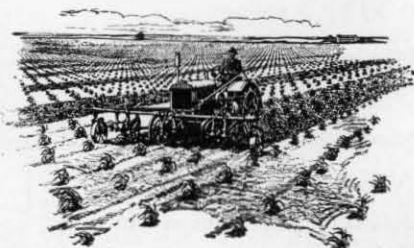


THE big capacity and outstanding performance that characterize the other attachments for the John Deere General Purpose Wide-Tread Tractor are built into this power-driven mower. Traveling at a speed of from three to four miles per hour, one man with this outfit can cut from 25 to 30 acres a day.

The tractor supplies the power for operating the sickle through the power take-off. The gear speed at which the tractor travels has no effect on the speed of the knife, which is controlled by the R. P. M. of the engine. You will appreciate this advantage in heavy, down, or tangled hay, because the speed of travel can be reduced without affecting the speed of the knife—clogging is reduced to a minimum.

Bar is raised by either foot- or hand-lift.

John Deere General Purpose Wide-Tread Tractor with Power-Driven Mower.



Cultivating three rows at a time with the General Purpose Standard-Tread Tractor and three-row cultivator.

There's a John Deere Tractor to Meet Every Farm Need

The John Deere General Purpose Standard-Tread Tractor with three-row planter and three-row cultivator is ideal equipment where bigger capacity per day is desired. You can plant from 30 to 40 acres a day, cultivate from 25 to 40 acres a day, operate a 24-inch John Deere separator with attachments and do all other jobs within the tractor's power range.

The John Deere Model D, for the heavier farm work, has plenty of power to pull three 14-inch bottoms under difficult conditions and four bottoms under many conditions. It will operate a 28-inch separator with all attachments and other drawbar and belt machinery in proportion.

**REMEMBER—All Types of John Deere Tractors
Successfully Burn Low-Cost Fuel**



Plowing from 12 to 15 acres a day with the John Deere Model D Tractor and John Deere tractor plow.

SPECIFICATIONS

GENERAL PURPOSE WIDE-TREAD TRACTOR *for Potatoes and Other Narrow-Row Crops*

CAPACITY. Suitable for two 14" plows, 22" thresher or John Deere 24" Thresher, 2-row planter, 2-row cultivator, 2-row digger.

SPEED. Low, $2\frac{1}{4}$; intermediate, 3; high, $4\frac{1}{8}$; reverse, $1\frac{1}{4}$ M.P.H.

ENGINE. 6" bore, 6" stroke, 950 R.P.M. 2 cylinder "L" head type horizontal.

CRANKSHAFT. 3" diameter drop forged long bearings.

CONNECTING ROD. Drop forged, two bolt type.

LUBRICATION. Force-feed, geared pump.

CARBURETOR. Double nozzle type with air choke.

AIR CLEANER. Oil filter type with vertical air stack.

IGNITION. High-tension magneto, with enclosed impulse starter.

COOLING. Tubular radiator, thermo-siphon.

AIR FAN. Gear driven, no belts.

GOVERNOR. Enclosed, flyball type.

CLUTCH. 10" dry disks, locking in and out.

BELT PULLEY. 13" diameter x $6\frac{1}{2}$ " face, 950 R.P.M.

BELT SPEED. 3200 feet per minute.

TRANSMISSION. Spur gear, selective type, 3 speeds forward, 1 speed reverse.

GEARS. Forged steel cut teeth and heat treated.

FINAL DRIVE. Enclosed roller chains.

DRIVE AXLE. $2\frac{1}{2}$ " diameter high carbon steel.

BEARINGS.

Main: $3\frac{1}{4}$ " long, removable bronze back babbitt lined.

Connecting Rod. $2\frac{3}{4}$ " long, removable bronze back, babbitt lined.

Front Wheels and Rear Axles. Tapered roller (8); front bolster tapered roller (2).

Transmission and Belt Pulley. Roller (1), ball (4), tapered roller (2).

Fan and Governor Shaft. Taper roller (4), ball thrust (1).

FUEL.

Fuel tank capacity 16 gallons.

Gasoline tank capacity 2 gallons.

WATER CAPACITY. 9 gallons.

LENGTH. Overall, $117\frac{1}{2}$ inches.

WIDTH. $85\frac{1}{2}$ inches.

HEIGHT. 58 inches at radiator cap.

TURNING RADIUS. 8 feet.

DRAWBAR HEIGHT. Adjustable vertical $5\frac{1}{2}$ ", horizontal 36".

DRAWBAR CLEARANCE IN HIGH POSITION. 12".

WHEEL BASE. $78\frac{5}{16}$ ".

REAR WHEEL TREAD. (Center to center,) 68" with special inset wheels; 74" with C-1538 solid-tire, 44x10 wheels; 77" with skeleton-type wheels.

POWER TAKE-OFF. For front or rear connections, rotates clockwise, 520 R.P.M. Separate gear shift.

JOHN DEERE GENERAL PURPOSE WIDE-TREAD TRACTOR