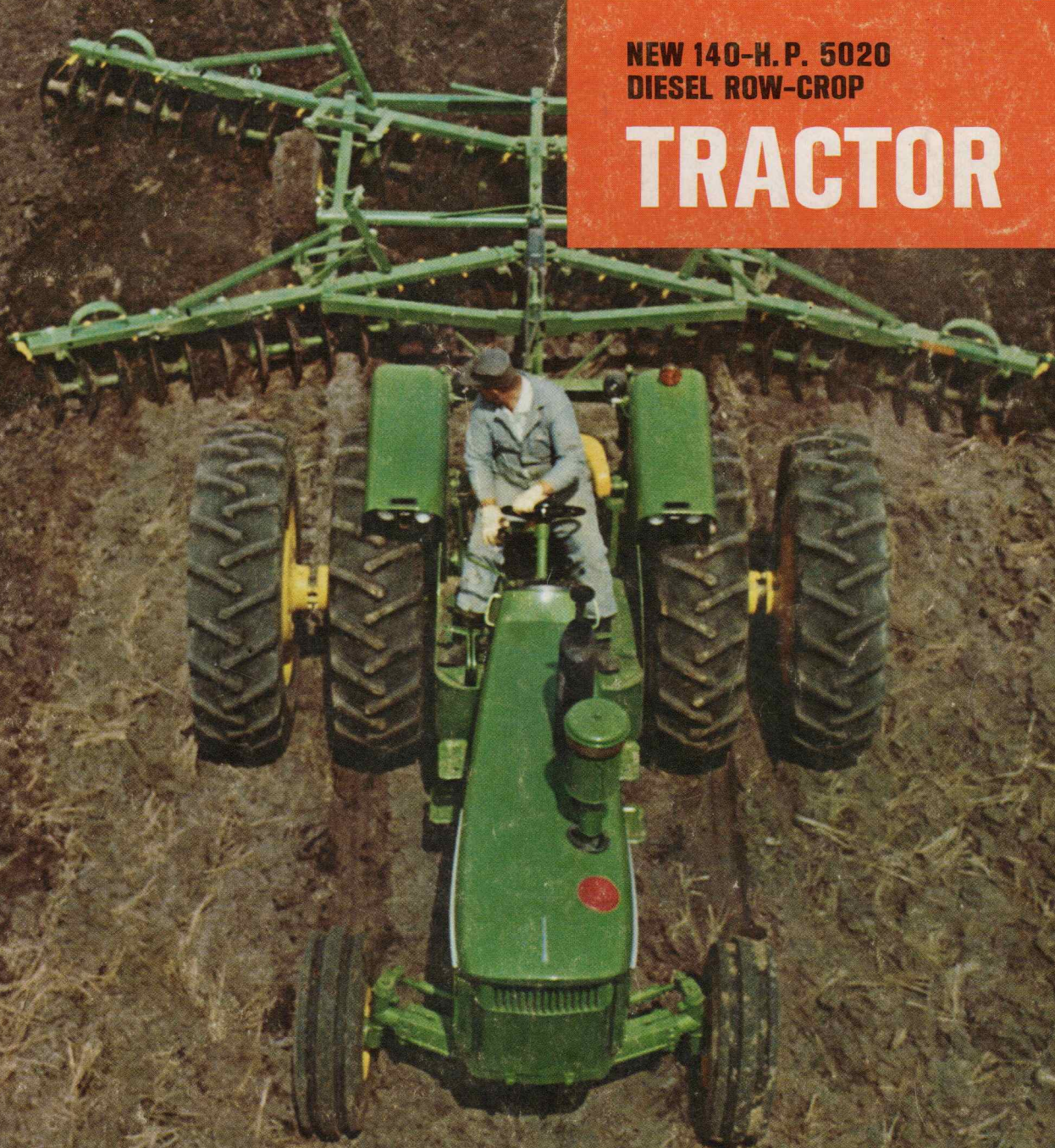




**NEW 140-H.P. 5020
DIESEL ROW-CROP**

TRACTOR

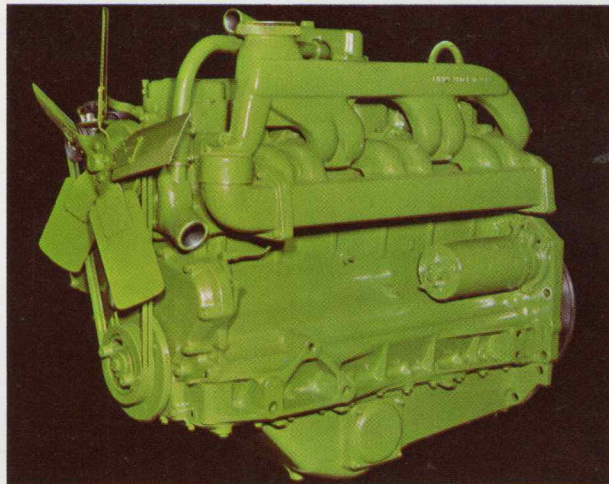


**New 140-H.P.* John Deere 5020 Diesel...
The most powerful row-crop tractor
you can own...bar none**





*Maximum h.p. observed at the PTO at 2,200 engine rpm (factory observed)



140 horsepower . . . observed horsepower . . . fully usable horsepower—that's the new John Deere "5020" Diesel. Here's capacity that emphatically underlines the title "Most powerful row-crop tractor on the market."

Observe this new power for yourself—how it flattens the hills . . . how it utilizes to the fullest the high-speed design of modern equipment . . . how it carries you through tough spots and practically eliminates downshifting.

Project this new power to your future—to fill the void created by scarce labor . . . to turn "untillable" acres into profit producers . . . to lift more of the effort off your shoulders and turn it over to tractor hydraulic power.

Command new "5020" power by taking the wheel for yourself on your farm. 140 horsepower backed by John Deere dependability will make farming more productive, profitable, and pleasurable for you. The facts are on the following pages; the proof is in the driving.

**Full-Crop Performance
earns greater profits for you
all season long**

Remember the old days? The big tractor did the plowing and disking, then retired for the remainder of the season. Tractor Number Two took over to plant, cultivate, and harvest. It's a different story with the John Deere "5020" Row-Crop . . . this tractor finishes what it starts . . . and that's what full-crop performance is all about.



To be sure, the mighty "5020" will plow and disk. But it will also perform 8-row minimum tillage or will straight-plant 12 rows at a time. It will then cultivate these 30-inch rows to the same widths (40-inch, too). At harvest, the "5020" and 38 Forage Harvester will chop two rows of corn or maize or a heavy hay crop into palatable feed.

This is why *full-crop performance* is so accurately descriptive of the "5020." The "5020" will do all the jobs you plan to do plus some you thought you couldn't do. A demonstration will prove to you that this tractor will pay its own way *full time* on your farm. Drive one soon and see for yourself how a "5020" will pay its way all season long.

The "5020" with RG1230 Cultivator chases weeds out of 12 rows of 30-inch corn fast



**5020 power spells
new speed...
new lugging ability...
a practical way to get
big jobs done fast**

The sight of eight bottoms moving at 4-1/2 to 5-1/2 mph has just got to be exciting—and revealing. Relate it to your disking jobs or to your plans to go the minimum-tillage route. This is the premise and the promise of the John Deere “5020” Row-Crop Tractor.

Horsepower should not be a matter of showing up your neighbor, but rather in showing up *yourself* in the profit column at the end of the year. This is the “5020” philosophy—more work done per hour or per day (however you measure), fewer tractors to own, and fewer operators to hire, the



best use made of the good-weather days. With a "5020," you can hardly help but become a winner in any direction.

More "5020" philosophy—why be saddled with a "brute" when a lively, easy-to-handle power unit can do the job faster and better. And in the economy column from either end, fuel or upkeep, the "5020" will do you proud. True, it takes some fuel at a fill (68 gallons), but it keeps you going *longer* between stops, lugs you through the tough spots without hesitation, and just take a look back and see what you've done, by day or per tank, and

you can pat yourself on the back for a wise buying decision that will pay big dividends.

The "5020" was designed for a serious purpose—that of helping row-crop farmers with big acreages to cut the corners on heavy work loads. It can kick high operating costs right in the pants insofar as its own care is concerned and makes going to big equipment synonymous with going to big savings. Time, fuel, manpower, efficient use of equipment investments—all turn up in the black ink when you farm with a new 140-h.p. John Deere "5020" Diesel Tractor.

The "5020" and two 4-bottom F650AH Plows make short work out of big tillage jobs.



Fine job-matched speeds keep pace with your every requirement

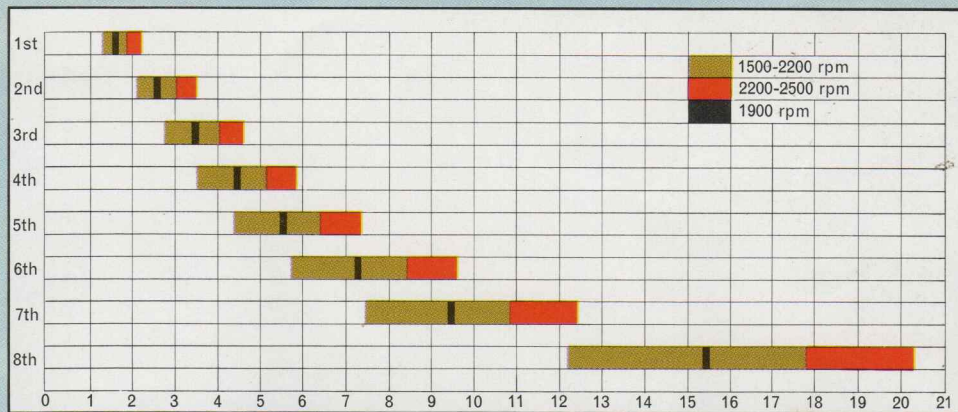
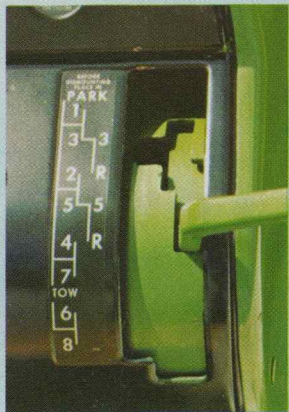
Rest assured—besides power, the speeds are there, too! Naturally, the big “5020” is no “laggard,” tillage speeds from 4-1/2 to 5-1/2 mph are provided . . . but so, too, are there fine ground-travel speeds for powershaft work. Now, if you're in a hurry, you can scoot between jobs up to 20 mph.

Thus, you have a full range of speeds for every job and a good go-home gear to boot.

The Syncro-Range Transmission is the answer. It's not new; just merely unbeaten for providing speeds that fit a job to the nth degree. It works hand-in-hand with the variable-speed Diesel to pinpoint ground-travel speed to your needs.

Incidentally, this same transmission provides on-the-go shifting in each of the four ranges . . . and direction-reverser action. One lever does it all. And with “5020” lugging power, you'll most generally pick a gear and stay with it for the length of your operation. A fine “5020” feature.





5020 power is a natural for once-over 6- or 8-row minimum tillage planting combinations.







Big-capacity hydraulic system provides power on demand for giant-sized equipment

You'll never be caught short on hydraulic capacity with a "5020" Row-Crop Tractor. A fast-acting, high-pressure, closed-center "live" hydraulic system provides smooth power on demand when and where you need it to control giant "5020"-size equipment. Convenient controls enable you to raise, lower, and precision-adjust large equipment with fingertip ease.

The system is powered by a unique variable-displacement pump, which in addition to equipment control, provides power for steering, braking, and engaging the differential lock. The transmission-differential case serves as the reservoir, insuring plenty of hydraulic oil for all functions. Oil is filtered before it reaches the pump. An oil cooler maintains viscosity for proper lubrication.

You can equip the "5020" with one or two remote cylinders to control single or double hookups of drawn equipment or equipment with more than one hydraulic function. A position-responsive rockshaft with Quik-Coupler Hitch, described on the following page, is also available to enable you to utilize "pick-up-and-go" equipment on a truly king-sized scale.

How far "5020" hydraulic power goes is shown at the left. Quik-Coupler raises the plow hitch . . . remote cylinders lift the front and rear of the plow independently . . . the plow bottoms and standards are reset quickly and automatically after hitting an obstruction. Add to this, hydraulics for steering, braking, and engaging the differential lock, and you'll see that the "5020" offers quite a hydraulic package.

This 8-bottom F355H Semi-Integral, Power-Reset Plow takes full advantage of "5020" power and hydraulics

Quik-Coupler Hitch offers pick-up-and-go farming on a big scale

A position-responsive rockshaft with Quik-Coupler Hitch enables you to utilize giant-capacity 3-point equipment, both Category 2 and 3. Tractor and implement become a close-knit working unit that is second to none for transporting and maneuvering. Attaching and detaching implements is fast and easy; in most cases, you need not leave the tractor.

Load, Depth, and Load-and-Depth Control enable you to match hydraulic response to the implement, job, and soil condition for consistent, top-quality work. Simple adjustments are provided for fore-and-aft and side-to-side leveling, and for lateral float for those implements equipped



with gauge wheels. Lower-link sensing transmits accurate signals from the implement to the hydraulic system; light and heavy equipment is controlled with equal efficiency. Equipment can be raised or lowered quickly and precision-controlled with a single lever.

New power weight-transfer hitch for drawn equipment automatically and hydraulically transfers weight from the front of the tractor to the drive wheels to maintain traction in difficult conditions. Sensing is handled through the lower links; action is the same as Load-and-Depth Control. This new hitch can be factory- or field-installed on "5020s" equipped with rockshaft and hitch.



The Quik-Coupler Hitch is as sturdy as it looks; can be quickly adapted to Category 2 or 3 equipment.



The new 8-row F998 Disk Bedder demonstrates the big-equipment capacity of the Quik-Coupler Hitch.

**With hydraulic muscle,
the big 5020 handles as
easily as the family car**

Any tractor that permits you to do more work, better work, and take life easier at the same time deserves your serious consideration. The "5020" Row-Crop is such a tractor. In addition to the hydraulic ease of controlling equipment, described on previous pages, both hydraulic power steering and power brakes are provided as an integral part of the hydraulic system—and as regular equipment.

Together, power steering and power brakes spell out superb handleability that's fast, accurate, positive and dependable. On any job, in any condition, you'll maneuver the "5020" with ease, make tight and almost effortless turns at row ends. One



hand, even one finger on the steering wheel . . . a light touch on either brake pedal unleashes tremendous hydraulic force to carry out your bidding. You'll be amazed that any tractor so powerful as the "5020" can handle so easily—and you'll find yourself comparing the handleability of the "5020" with that of your family car.

For the technically minded, the power steering unit is totally hydrostatic with no mechanical connection between the steering wheel and the front wheels. Power brakes are differential and can be operated individually or simultaneously. A special valve directs equal braking power to each wheel

for smooth, safer, straightline stops every time.

The "5020" Row-Crop is a family tractor—one that you, your wife, son, an elderly member of the family, or the hired man can operate with ease. You'll find the hours spent on a John Deere "5020" Row-Crop among the most pleasant you've ever spent on a farm tractor.

Steering, braking, raising the planter and Hydro-Markers are handled by "5020" hydraulic power.



**An independent PTO
for 1,000-rpm equipment
efficiently delivers
smooth, unflinching power**

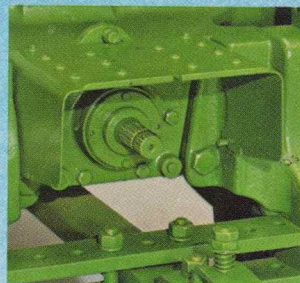
Shown below are two of the most compatible John Deere products that you can own—the 38 Forage Harvester, a unit truly designed for large-tractor operation, and the “5020” Row-Crop. They’re joined as a working unit by the Independent 1,000 rpm Power Takeoff . . . a positive indication of their ability to wade in and work the heaviest crops.

The 1,000 rpm PTO of the “5020” is ideally suited for this operation. It has not only the ability to transmit the tremendous power of the tractor, but the strength to withstand high torque loadings. Power is delivered with unwavering dependability.



Combined with the fine travel speeds of the Syncro-Range Transmission (even neutral is a speed on PTO operations), this PTO permits you to work the heaviest stands without clogging delays. You can start or stop tractor travel, change speed selection, operate the hydraulic system—all without interfering with PTO operation. Hydraulic power is used to engage and disengage the PTO for your convenience. This PTO helps establish the "5020" as a *full-crop tractor*—one which will serve you well right through the harvest. PTOs are busier than ever—and the "5020" is ready!

This 21-spline 1,000 rpm powershaft is a sign of modern times and high-horsepower tractors. Only a shaft operating at this speed can be expected to perform reliably under heavy torque loads. Therefore, a 540 rpm PTO is not offered for the "5020."



This chopping team radiates big-capacity snout to spout.



**Power differential lock
can be engaged
on the go hydraulically**

Still another practical application of John Deere hydraulics is the power differential lock. At any time—standing still or on the go under full load—this lock can be engaged or disengaged hydraulically. Across thick stubble or cover crop, in mud or loose sand, on in-furrow plowing jobs where land-wheel slippage can oftentimes occur, in *any* poor traction condition, the differential lock more than pays its way in the elimination of power- and fuel-wasting “spin-out” of a drive wheel.

Operation is fast and simple. Depressing a con-



venient pedal on the platform causes hydraulic pressure to lock all differential components together to function as a unit. Power is delivered to both wheels to keep you on the move. A heavy-duty, wet-type clutch in the differential insures smooth, positive engagement. A touch of either brake pedal frees the differential for normal operation. The John Deere Power Differential Lock is another step forward toward the goal of greater production and profit of non-stop farming. It's a feature that definitely belongs on your new "5020."



Depressing this differential-lock pedal can help keep you out of trouble and on the move in difficult conditions.

The power differential lock is ideally suited for working this 16½-foot "TW" Disk Harrow over slick corn stubble.







You will enjoy an exclusive blend of John Deere comfort and convenience

Comfort and convenience are tangible features that show up in your profit column. There is no question that an alert operator can work longer hours and do more work, more efficiently, without excessive fatigue. The "5020" Row-Crop is an outstanding example of this type of design.

More Pleasure for You

It starts with mounting. Convenient steps and handholds are provided to enable you to mount and dismount with greater ease. Aboard, you sit in the comfort of the famous John Deere posture seat (regular equipment) with plenty of room to stretch out, and move about on the spacious, uncluttered platform. Controls are right where you'd expect them and divided between right- and left-hand operation for greater convenience. Directly ahead, showcased on a non-reflective black panel, are the instruments and gauges that relay vital operating information at a glance. Transmission and hydraulic controls are located to keep the platform area clean. You're seated just ahead of the rear axle where any pitching action over rough ground will least affect you. The high-centered location of the seat plus the tapered hood provides an excellent view in all directions. One day at the wheel, and you'll agree that the "5020" is an extremely easy and enjoyable tractor to ride and operate. Try it soon and see what real tractor comfort is like.

This large, open platform invites you to board the "5020" Row-Crop.

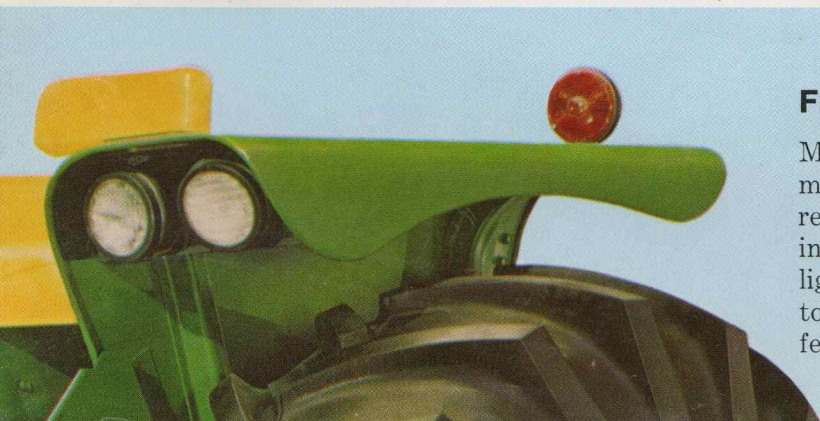
JOHN DEERE ROLL-GARD CAB

This Roll-Gard Cab for the "5020" Row-Crop blends comfort, safety, and function into a single neat package. The cab is designed around the John Deere Roll-Gard which surrounds you with a protective frame of steel. Provision for a 60-inch rear-wheel tread enables you to work the "5020" in 30-inch rows. A pressurizer, windshield wiper, complete field, road, and safety lighting, and large areas of tinted safety glass are regularly furnished. A hot-water heater and defroster are available. See your John Deere dealer for full details on this John Deere Roll-Gard Cab.



ADJUSTABLE FRONT AXLE

Heavy-duty adjustable front axles (regular or extra-wide) provide a variety of tread settings enabling the "5020" to fit almost any row.



FENDERS AND LIGHTS

Modern styled fenders offer you protection from mud and dirt, prevent accidental contact with the rear wheels. The finest in field and highway lighting is incorporated into these fenders. The inner light projects a powerful beam ahead of the tractor; the outer light floods the work area. Note the fender-mounted warning lamp regularly furnished.

SPECIFICATIONS (Specifications and design subject to change without notice)

PERFORMANCE:

Syncro-Range.....140 maximum observed h.p. measured at the PTO at 2200 engine rpm (factory observed)

SHIPPING WEIGHT With equipment for average field service.....14,480 lbs.

ENGINE.....6-cylinder, variable-speed, wet-sleeve, valve-in-head.
 Governed speed range, 800 to 2500 RPM Operating speed range, 1500 to 2200 RPM Transport speed max., 2500 RPM
 Bore and stroke, 4.75 in. x 5 in. Compression ratio, 16.5 to 1 Displacement, 531 cu. in.
 Lubrication system.....Full-pressure, full-flow w/bypass. Micronic paper element.
 Cooling system.....Pressure w/centrifugal pump & thermostatic heat control.
 Air cleaner.....Dry-type w/restriction indicator.

CAPACITIES: (U.S. Measures)

Fuel tank.....68 Gallons Cooling system.....33 Quarts Crankcase (Includes filter).....20 Quarts
 Transmission, differential, and hydraulic system (At service intervals).....16 Gallons

POWER TAKE OFF.....Independent 1000 rpm rear; Hydraulic assist, wet-disk.

TRANSMISSION.....Constant-mesh, helical-gears, range-synchronized; 8 FWD, 2 REV.

CLUTCH.....Foot-operated, spring-loaded, dry-disk.

HYDRAULICS.....Closed-center, constant-pressure, variable-displacement system.

STEERING.....Full-power, hydrostatic-type. Provision for manual operation.

BRAKES.....Full-power, wet-disk type, foot-operated individually or simultaneously. Provision for manual operation.

DIFFERENTIAL LOCK.....Foot-operated, multiple wet-disk, hydraulically actuated.

ELECTRICAL SYSTEM.....12-volt lighting, accessories and starting.

INSTRUMENT PANEL.....Speed-hour meter, fuel gauge, engine temperature gauge, engine oil pressure light, alternator light, air cleaner light; light-switch; safety key-start switch; cigar lighter.

FRONT TIRES.....9.50 x 20, 8 ply, F-2; 11.00 x 16, 8 ply, F-1 or F-2; 18.4 x 16A, 6 ply, R-3; 14L-16A, 6 ply, F-2.

REAR TIRES.....24.5-32, 10 ply, R-1 or R-2-0; 18.4-38, 12 ply, R-1; 20.8-38, 10 ply, R-1.

DOUBLE REAR TIRES..24.5-32, 10 ply, R-1; 18.4-38, 8 or 12 ply, R-1; 20.8-38, 10 ply, R-1; Cane and rice tires available.

DIMENSIONS:

Wheelbase.....Narrow Tread—102.5", Wide Tread—105.3"
 Over-all length.....172.3"
 Over-all width.....Regular Axle—108.3", Long Axle—120", Dual Wheel Axle—125.75"
 Over-all height.....98.3"
 Height to steering wheel.....82.4"
 Turning radius (Brakes applied).....13 ft.
 Minimum crop clearance
 Front axle.....20"
 Rear axle.....29.7"
 Rear axle housing.....26.7"
 Drawbar clearance.....16"
 Front wheel treads (9.50—20 Tires)
 Adjustable axle.....64.5" to 81.5"
 Wide adjustable axle.....71" to 88"
 Rear wheel treads (18.4-38 Tires)
 Regular axle.....60" to 120"
 Long axle.....60" to 132" (Duals only)

GROUND SPEEDS (mph) (with 24.5-32 or 18.4-38 tires)

	Operating Range (1500-2200 engine rpm)	ASAE PTO Speed (1900 engine rpm)	Transport Speed* (2500 engine rpm)
1st	1.3- 1.9	1.7	2.2
2nd	2.1- 3.1	2.6	3.5
3rd	2.8- 4.0	3.5	4.6
4th	3.5- 5.2	4.5	5.9
5th	4.4- 6.5	5.6	7.3
6th	5.8- 8.5	7.3	9.6
7th	7.5-10.9	9.4	12.4
8th	12.2-17.9	15.4	20.3
**Rev. 1	2.7- 3.4		
**Rev. 2	4.3- 5.4		

*Controlled by foot throttle **1500-1900 engine rpm.



Big Jobs...Big Equipment...Big Ideas The New John Deere 5020 Diesel can handle them all

The big difference that 140 h.p. can make on your farm will become readily apparent when you take the wheel of a new John Deere "5020" Diesel Row-Crop Tractor. Your John Deere dealer has a standing offer to deliver a new "5020" to your farm for a free demonstration. Field-test this modern power unit on every count—lugging ability, economy, comfort, handleability, convenience. Take full measure of the many modern features and the

extra value built into this tractor. By whatever standards you judge a tractor, you'll find the "5020" far ahead of the pack in every respect. Only by experiencing "5020" performance in the field can you project the new earning ability that this tractor offers you. Stop in or call your John Deere dealer soon. Credit plan terms are available to pave your way to ownership.

