

FORD



4000 Row Crop



DRIVER-DESIGNED

for new convenience

Glance at the Ford 4000 Row Crop. One look tells you it's a tractor designed with driver in mind! Generous-size step plates, conveniently placed. Big, roomy platform. Plenty of foot room, sitting or standing. Upholstered deluxe seat with spring suspension, adjustable to driver's height and weight. Dust and dirt-excluding fenders. Equipment operating controls grouped within a hand space. Shockfree, hydrostatic power steering. Top-notch visibility in all directions. Self-energizing wet disc brakes for straighter stops or shorter pinpoint turns. A tractor you'll want to see and drive! A tractor that updates your power for row crop farming!



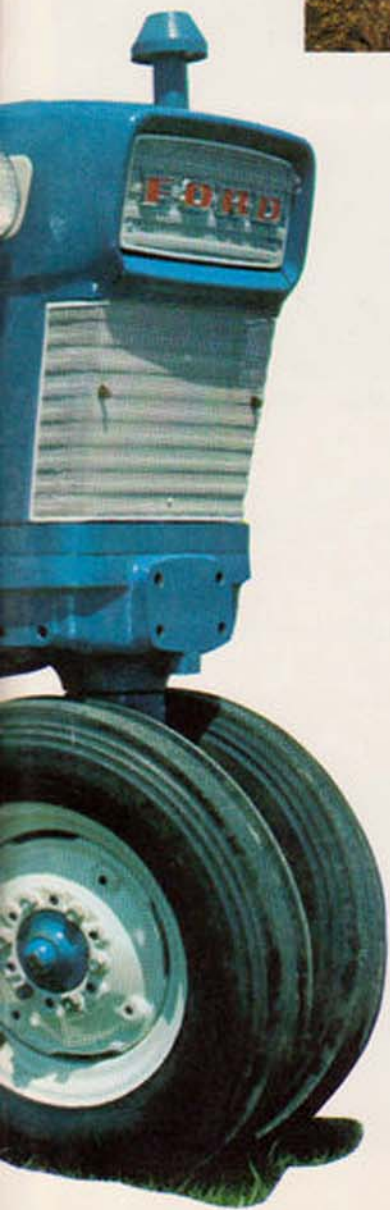
UNCLUTTERED. Walk around a new Ford 4000 Row Crop. Notice the neat, "clean", unified design—absence of exposed hydraulic hose and tubing.



For easier 4-row, 3-4 plow work ZERO IN ON A NEW **FORD** **4000** Row Crop

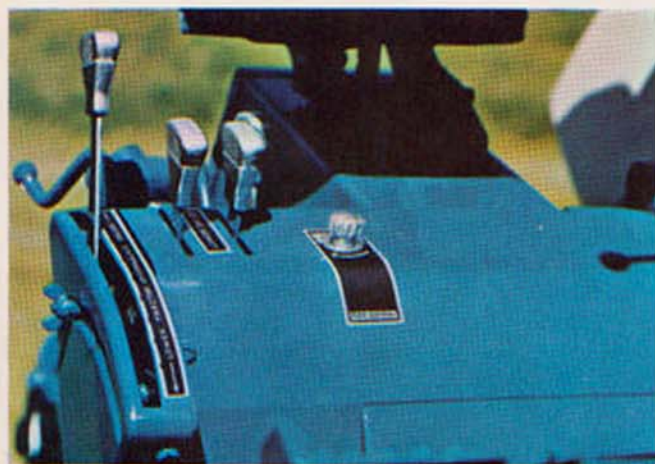
Make a few turns around the field with a new Ford 4000 Row Crop. Try it with a mounted plow—three 16's or four semi-mounted 14's. A wide disc harrow. Let it pull a heavily loaded spreader or wagon in soft fields. You'll notice front-end stability and balanced pull-power unusual in a row crop tractor. This results from the greater weight and strength of Ford's rugged new engines, plus built-in weight where it counts. You'll also notice exceptional lugging ability over a wide range of speeds with these smooth-running engines, gasoline or diesel. You'll appreciate this "hang-onto-the-load" ability on heavy power take-off jobs—forage harvester or two-row corn picker. It's easier to keep PTO at rated speed for top performance of your power-drive equipment.

4000 Row Crop is all-new. Designed to deliver speed and performance required for today's fast-paced, high-production farming. A tractor you'll enjoy driving. A tractor that keeps operating costs down. A tractor you'll be proud to own!



GROUPED EQUIPMENT CONTROLS

bring you new operating ease



This closeup view shows convenient grouping and location of hydraulic controls.

CONSOLE CONVENIENCE. All hydraulic controls are grouped within relaxed, easy reach by driver's right hand (photo, above). (1) Touch-control lever for raising, lowering and adjusting implement depth. (2) Optional controls for remote cylinders. (3) Lever for selecting draft or position control. (4) Flow control.

DOUBLE-ACTING DRAFT CONTROL. New Ford draft control provides more uniform draft regulation with top link of three-point linkage in *either* compression or tension. Consequently, heavy equipment such as a three-bottom, fully-mounted plow does not "bury" itself if weight of equipment and load overcome top link compression when working in soft soil. You get more uniform draft reaction, with light or heavy implements, in all types of soil conditions.

POSITION CONTROL. Maintains soil-working implements at selected position in relation to tractor regardless of draft. Holds hitch-mounted spray booms and similar equipment at selected height.

FLOW CONTROL. Enables operator to adjust speed of draft control reaction. "Smooths out" variations in implement depth as draft varies in changing soil conditions.

REMOTE CONTROL. Optional remote control couplings are housed under the rear seat for easy



Two-circuit, quick-disconnect remote-control couplings. When not in use, couplings are protected by a hinged door.

access and maximum protection. Open-center, single- or two-spool valves provide feathering action from closed to fully open positions. May be set for "float." Automatically return to neutral when cylinders reach fully raised or lowered positions. Provides two circuits for single- or double-acting cylinders. With two-spool valves you can control right and left front cultivator gangs individually, or combinations of two trailing implements.

LIVE POWER. Hydraulic pump on Ford 4000 is "live." You have hydraulic power whenever engine is running, whether engine clutch is engaged or disengaged. This pump supplies hydraulic power at 2,500 pounds per square inch for all implement control operations. A separate pump is provided for power steering.

Hydrostatic Power Steering

Ford 4000 Row Crop power steering is completely hydraulic. Turning the steering wheel meters oil to the double-acting steering cylinder. Turn speed is in direct proportion to speed with which steering wheel is turned. Design of system prevents front wheel drift, buffers road shocks, aids precision control. And you can steer when the engine is not running.



POWERFUL NEW ENGINES

lug smoothly over wide rpm range

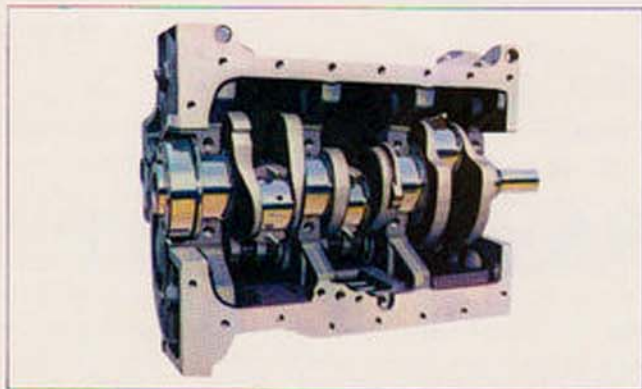
Put a Ford 4000 Row Crop under heavy load. Let it lug down . . . down . . . *down!* Even then, the husky engine keeps pulling smoothly, quietly, steadily. Three-cylinder design gives you the smoothness you've come to expect only in a six. But three-cylinder design permits tremendous strength in the block to increase engine life. There are fewer but stronger parts in a more rigid engine.

These new Ford engines were designed first with strength for diesel service. Strength fully retained in the gasoline model. Massive block resists distortion and vibration. Big-diameter crankshaft can't "whip"

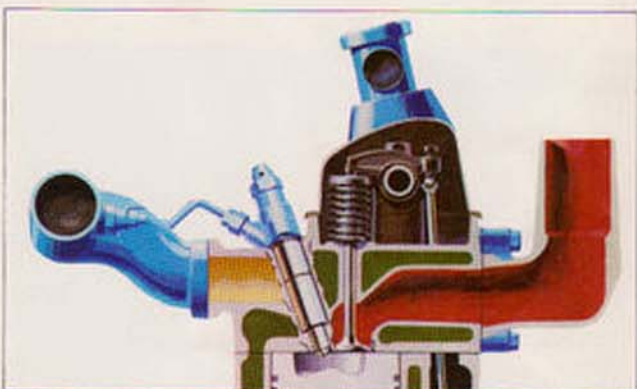
under maximum torque loads. Swirl-chamber pistons help burn fuel more efficiently.

This stronger, tougher construction pays you dividends in other ways, too. Longer periods between engine oil and oil filter changes. Chrome-faced piston rings with top ring held in hardened, heat-resistant ring-groove insert. Valve seat inserts and rotators reduce valve wear and keep compression up.

In long-life strength, in smoothness of operation, in lugging ability, in fuel economy, these new engines offer you a new high level of performance in a row crop tractor.

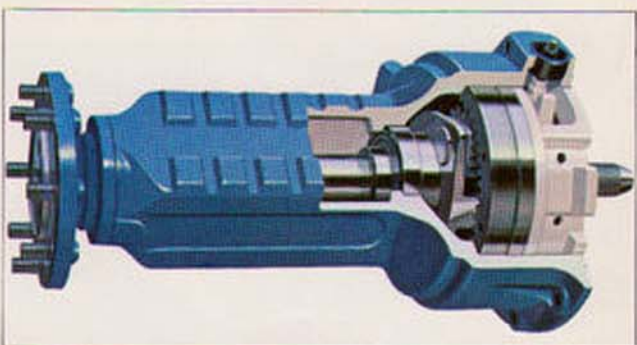


TOUGH! Ford takes advantage of three-cylinder design to put bigger, stronger moving parts in a shorter, more rigid engine. Size for size, these engines must be ranked with the strongest, longest-lasting ever built.



OPPOSED MANIFOLDS. Intake on the right, exhaust to left—permit larger, straighter air passages. And Ford's big-bore design makes room for larger valves. It all adds up to deeper breathing engines that lug better, make your fuel dollars go farther.

In detail after detail, Ford builds longer life into 4000 Row Crop engines. Piston rings (except bottom compression ring) are chrome-faced. Hardened insert in top ring grooves. Positive rotators for exhaust valves. Nodular iron rocker arms. Massive, forged I-beam connecting rods. Large bearing inserts. Precision-bored cylinders with no sleeves to impede cooling.



PLANETARY FINAL DRIVE. Cutaway shows heavy-duty construction of final drive and rear axle housings. Final speed reduction is through husky planet gearsets—dividing stress on transmission and differential gears by three.

DISC BRAKES SEALED IN OIL. Mounted ahead of final reduction planet, 4000 disc brakes provide a new ease and sureness of braking action. Special alloy discs act against fixed steel discs in a bath of oil for smoother, self-energizing action at all ranges of pedal pressure, with minimum maintenance.

Match your 4000 ROW CROP with efficient, fast working FORD EQUIPMENT

The Ford 4000 Row Crop is equipped with Category I or II three-point linkage with flexible link ends. Mounting bosses cast into the rugged, beam-strong chassis provide for quick attachment of front-mounted cultivators, one- and two-row corn harvesters and other equipment. The three-point linkage provides lifting power for such implements as ten-foot tandem disc harrow, four-row planters, three-bottom plow, two-furrow roll-over plow and other equipment of similar capacity.

The Ford line also includes two types of rear-mounted mowers, trailing and mounted side-delivery

rakes and three sizes of balers. The pitman-drive mower is one of the nation's most popular, noted for smooth operation, clean mowing and long life. The 515, a pitmanless model, permits quiet, efficient mowing at tractor speeds up to seven miles per hour on favorable terrain.

Swinging drawbar, without interference to the three-point hitch, provides for quick coupling and short turns with pull-type equipment. Many types of trailing equipment are available through your Ford tractor and equipment dealer to meet farming practices and requirements in your area.



THREE-POINT HITCH WITH FLEXIBLE LINK ENDS

Length of the lift links on the Ford 4000 Row Crop are matched to the higher clearance of this tractor. You can interchange three-point implements and equipment between Row Crop and All Purpose models without modification. Flexible lower link ends extend several inches merely by pulling a pin. This makes it easy to line up the link ends of the hitch with the link pins on heavy equipment. Backing the tractor after the hookup is made automatically relocks the flexible ends. Category I conversion hitch parts are included as standard equipment for use with mowers, rakes and other lighter equipment.



SMOOTH HYDRAULIC CONTROL FOR INDEPENDENT PTO

The 4000 Row Crop may be specified with either power-shift, ten-speed Select-O-Speed or manual-shift, eight-speed transmission. Both are equipped with fully independent power take-off. PTO can be stopped or started with the tractor either standing still or on the go.

With both transmissions, the PTO is engaged and disengaged by a smooth-acting hydraulic clutch. You can "feather" the control to start heavy PTO loads with maximum smoothness and minimum strain on engine and PTO drive train. With Select-O-Speed, the PTO control (left) is of push-pull type, conveniently located on the tractor instrument panel. *Optional* with Select-O-Speed is independent PTO, 540/1,000 rpm, with ground drive feature.



CHAMPIONSHIP TWO-ROW PICKER. Capacity? Clean picking? You bet! In the 1965 National corn picking contest Ford two-row pickers took first, second, third and fourth places. And in corn yielding 161 bushels to the acre! This was the sixth time in seven years that Ford pickers won first place in this "world's series" of corn picking contests.

Small diameter, offset rolls snap clean with less grabbing. Drop ears directly in elevator. No unnecessary husking or shelling. With power-shift Select-O-Speed you can match picking speed to crop conditions, on-the-go. Speed up in light stands. Slow down and save corn in heavy yields. All without stopping the tractor.

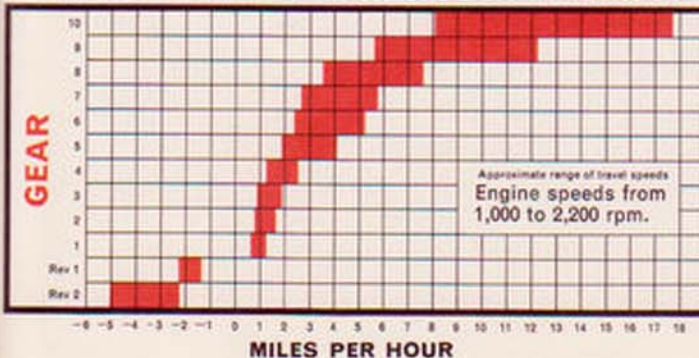
WIDE-RANGE TRANSMISSIONS

TEN-SPEED POWER SHIFT. This most modern of all tractor transmissions may be specified on Ford 4000 Row Crop at surprisingly low cost. With ten-speed Select-O-Speed you power-shift instantly, *on-the-go*, without clutching. You match tractor travel speed to the load and equipment operating conditions with no stops. Safer, too: start heavy loads in a low-speed, high-pull gear, then shift up, *on-the-go*.

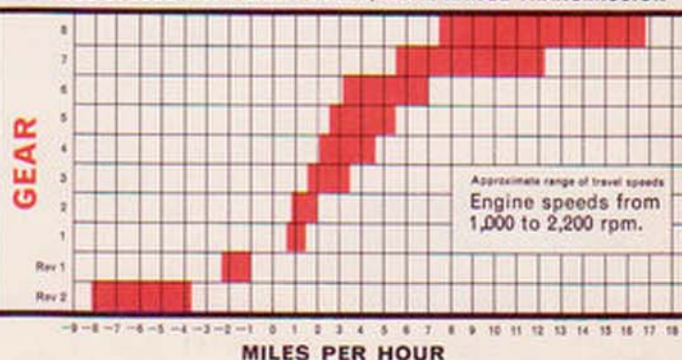
EIGHT-SPEED. This efficient manual-shift transmission provides eight speeds forward, two reverse. Four speeds in the low range, four in the high range, and one reverse in each range. Low range provides gears for heavy pulls such as plowing, subsoiling, discing and other heavy field work, or for slow-speed precision work such as vegetable transplanting. High-range speeds are matched to faster-paced work such as light discing, planting, cultivating, mowing, raking, rotary hoeing and road hauling or transport.



TRAVEL SPEEDS WITH TEN-SPEED SELECT-O-SPEED TRANSMISSION



TRAVEL SPEEDS WITH EIGHT-SPEED, DUAL RANGE TRANSMISSION



FORD 4000 ROW CROP



WIDE ADJUSTABLE FRONT AXLE—wheel tread adjustable from 56 to 88 inches. Equipped with 6.00-16-inch, F2, 4-ply tires. Under-axle row clearance is 24 inches. Also may be equipped with optional 7.50-15-inch, 6-ply R-2.

SINGLE FRONT WHEEL—axle interchangeable with dual wheel pedestal. Equipped with 9.00-10-inch, F3, 8-ply tire.

POWER ADJUSTED REAR WHEELS—tread width is adjustable from 56 to 90 inches without reversing rims on wheel discs. Dual rear wheels also may be mounted on power adjusted wheels.

Options and accessories for all operating preferences

In addition to choice of engine, transmission, and PTO, the 4000 Row Crop may be equipped with a variety of options and accessories to match specific preferences and specialized farming requirements. Factory installed options include: Differential lock. Single

front wheel axle. Wide adjustable front axle. Hydraulic remote control. Power-adjusted rear wheels. Other equipment such as air pre-cleaner, etc., can be installed by your Ford tractor and equipment dealer, either at delivery, or at any later date.

SPECIFICATIONS

ENGINE	4000	
	Diesel	Gasoline
Horsepower*	46.7	46.3
No. of Cylinders	3	3
Displacement, cu in.	201	192
Bore & Stroke, in.	4.4 x 4.4	4.4 x 4.2
Compression ratio	16.5:1	8:1
Governed rpm	2,200	2,200
Piston speed, fpm (at rated rpm)	1,613	1,540

*Maximum observed PTO hp with eight-speed transmission.

ELECTRICAL SYSTEM. 12-volt, 80 amp-hr battery (gasoline), 128 amp-hr battery (diesel). Generator capacity, 22 amp. Positive engagement safety starter. Cold start kit.** Two dual headlights and taillights.

POWER TRAIN. Eight-speed, dual range transmission; dry disc, single plate clutch, 11-in. dia. Power-shift ten-speed Select-O-Speed.** Double-reduction inboard planetary final drive. Differential lock**.

CAPACITIES & DIMENSIONS

Wheelbase, in.	91
Tricycle	99.5
Wide adjustable front axle	13:7
Length overall, in.	52 to 80
Wheel tread, in.	56 to 90
Manual adjusted rear wheels	
Power adjusted rear wheels	

Adjustable wide front axle	56 to 88
Height to top of hood, in.	64.3
Turning radius, brakes locked, ft (Dual front wheels)	8.7
Row crop clearance, in.	
Rear	25
Wide front axle	24
Rear axle capacity, lb.	9,000
Fuel tank, gal.	16
Transmission, 8-gear, qt.	17
Transmission, 10-speed, qt.	13.3
Differential, qt (incl. hydraulic system)	26.3
Cooling system, qt.	14.0
Shipping weight, approx. lb.	4,990
Hydraulic pump, gpm	5.4 at 2,500 psi
Linkage lift capacity, lb	3,200
24 in. behind link ends	2,000

STEERING. Power, full hydrostatic.

POWER TAKE-OFF. Fully independent, hydraulic clutch controlled. Standard 540 rpm at 1,810 engine rpm. Standard 540/1,000 rpm** at 1,900 engine rpm. Ground drive PTO feature available with Select-O-Speed transmission.

HYDRAULIC SYSTEM. Engine-driven pump delivers constant hydraulic power whenever engine is running.

IMPLEMENT MOUNTING LINKAGE. Category

II 3-point hitch with dual-acting draft control that reacts with top link in either compression or tension. Flexible link ends. Category I attaching parts.

TIRES

Front:	Tricycle Dual or Wide Adjustable	
	Standard 6.00 x 16	4-ply F2
	Optional 7.50 x 15	6-ply F2
Single Wheel	Tricycle 9.00 x 10	
		8-ply F3
Rear:	Standard 12.4 x 38	
		4-ply R1
	Optional 13.6 x 38	4-ply R1
	Optional 13.6 x 38	6-ply R2

OTHER STANDARD EQUIPMENT. Tachometer. Fuel gauge. Instrument panel illumination. Oil pressure and generator warning lights. Water temperature gauge. Tool box. Dual fuel filters (diesel). Deluxe cushioned seat with suspension system.

OTHER SPECIAL EQUIPMENT** Power adjusted wheels. Swinging drawbar. Swinging drawbar clevis. Fixed drawbar. Linkage drawbar. Linkage stabilizers. Air pre-cleaner bowl and long stack. Horizontal exhaust. Implement work light and switch. Implement warning light. PTO guard. Cold and very cold start kits (diesel). Weights: rear wheel, front wheel, bumper, PTO belt pulley. Remote cylinder control valves, one- and two-spool. Remote hydraulic cylinders. Canvas top cab.

**Available at additional cost.

Design, materials and/or specifications are subject to change without notice and without liability therefor.

YOUR FORD TRACTOR AND EQUIPMENT DEALER

