



4-225/4-270

FIELD BOSS[®] TRACTORS



The banker in you sees value. The operator sees convenience and comfort. The farmer in you sees that it will earn its keep.

More land, less time. The comfort of White Farm's 4WD makes up

Look at these tractors two ways. First, look at individual components—each is top quality. Then look how the components are assembled—the styling, the fit, the concern for easy maintenance and operator comfort.

Systems compliment each other. Like Cat power and White Farm's exclusive powershift transmission—they give you lugging power and a wide choice of operating speeds.

At the end of the drive train are inboard planetary final drives with heavy-duty axle carriers and induction hardened axles. They work with front and rear differential locks that you engage without stopping.

White Farm is one of the few manufacturers that offer full power 1000 rpm PTO for efficient work in front of a forage harvester, PTO combine and windrower. And the charged hydraulic system is closed center with easy to use lever couplers at the remote valves.

Inside the roomy cab, the sound of the big diesel goes unnoticed. You're protected from sound, dust and jolts. But even though you're sheltered from the elements, you won't lose the feel of the machine.

In front of you, a monitor reports the status of all key functions and another selectable display provides a digital reading of things like ground speed, engine rpm and PTO rpm.

To the right is a logical arrangement of shift levers and hydraulic controls—the most used are the most handy.

Flat glass gives a distortion-free view. Instead of drafty columns of air, the blower and vents pressurize the cab—circulating a constant supply of fresh air. And there's almost unlimited seat adjustments that satisfy the youngest and oldest operators.

The cab, like the tractor's other components, fits you and your operation perfectly.

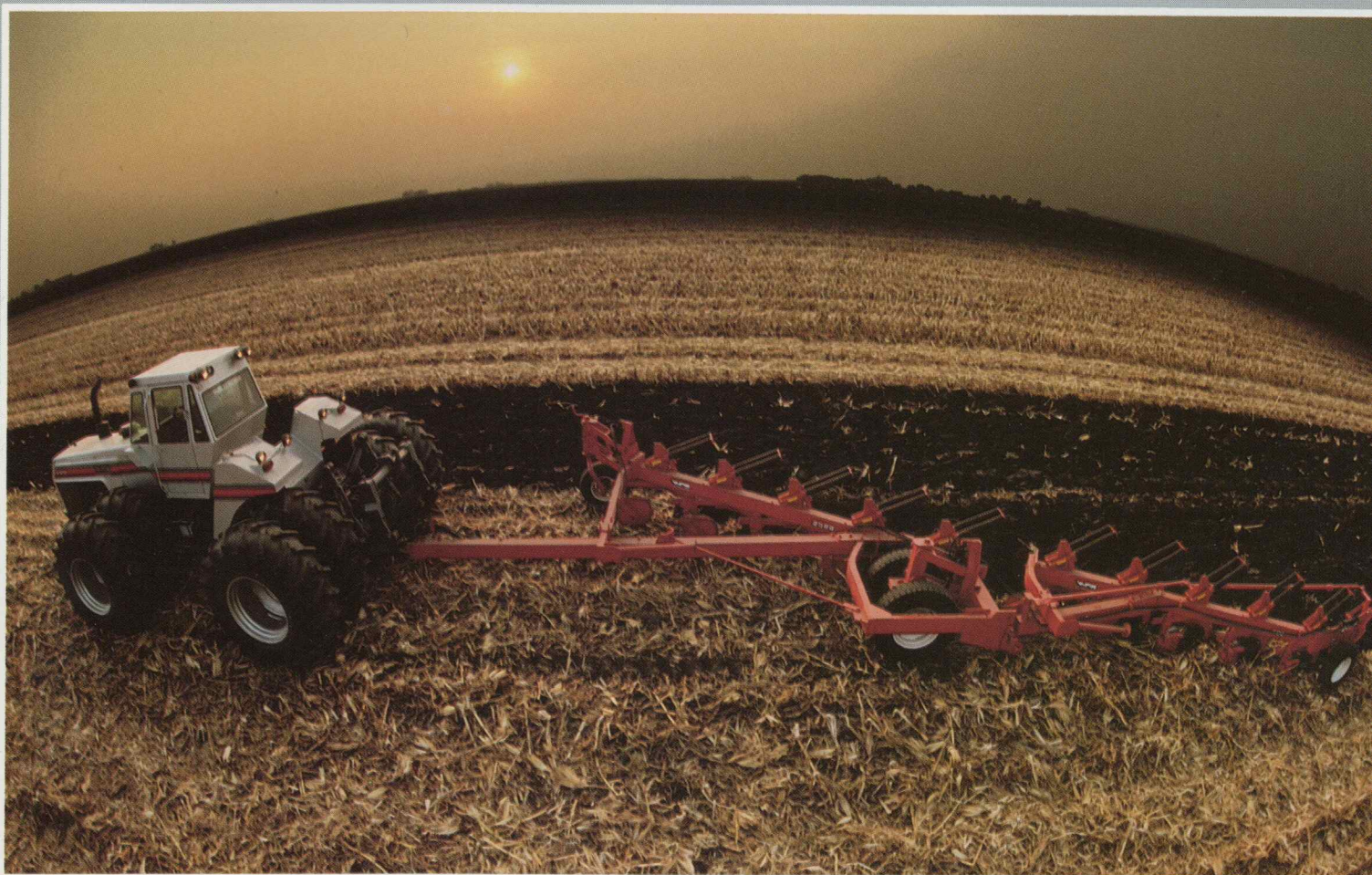
Full view, front and rear. Distortion-free flat glass, convex rear view mirrors and narrow cab posts assure a good look.



The 4-225 meets the needs of many expanding operations. It makes quick work of primary tillage chores, returns for seedbed work and stays busy right through planting, seeding and harvesting. Engine horsepower is 225, P.T.O. horsepower is 195.65.



able, efficient power the difference.



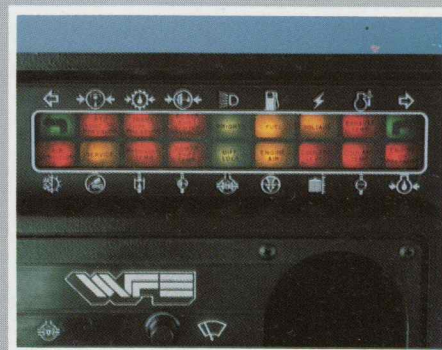
Big tillage chores in big open fields... that's the kind of work the 4-270 was built for. With 270 horsepower, a wide selection of working speeds and a huge fuel tank, you'll watch the acres pass quickly. P.T.O. horsepower is 239.25.



This convenient right-hand console puts the transmission shift lever, powershift lever, throttle, 3-pt. hitch,** and remote hydraulic controls at your fingertips.



A selectable digital display gives you a report on engine and PTO rpm, ground speed, water temp., exhaust temp., oil pressure, fuel level, and voltage.



An electronic warning monitor provides visible and audible alerts for engine and tractor systems. There're also indicators for high beam, turn signals and diff. lock.

Caterpillar and Cat are trademarks of Caterpillar Tractor Co.

**Optional on 4-270

These 4WD's have hard pulling that won't let you bog down.



These White Farm tractors are earning their reputation for performance because of an unstoppable team—the engine and transmission. Caterpillar engines provide responsive power with large displacement and high torque rise. White Farm's exclusive transmission channels the power through a wide range of usable field speeds and on-the-go shifting.

The 4-270

The 4x4 power-shift transmission has sixteen forward and four reverse speeds. Eight of the forward speeds are between two and seven mph—the critical range for field operations.

In each of the main gears you can shift, on-the-go, between four speeds. So you're never trapped too slow, too

fast, underpowered or overpowered. With a single main gear and four power-shift speeds, you can increase speed by 71 percent. When the ground demands, downshift and increase torque by 71 percent. And your link to this efficient transmission, a gated powershift lever, is right beside you.

Just ahead of the powershift lever to your right is the throttle. Shove it ahead and the Caterpillar 3306 DITA engine roars—there's 270 engine, 239.25 P.T.O. horsepower. Hit heavy soil and the Cat engine responds—this turbocharged and aftercooled engine has a torque rise of over 27 percent. And because of its close range governor and variable-timed fuel injection system it pulls and pulls without excessive fuel consumption.

The 4-225

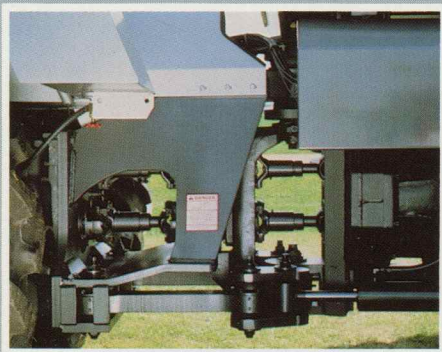
Like the 4-270, this 4WD has an exclusive shift-on-the-go transmission. The White Farm Over/Under Powershift transmission gives you three drive ranges—overdrive, direct drive and underdrive—in each of six forward and two reverse gears. That gives you thirteen speeds between two and seven mph—the working speeds.

The 4-225 is powered by a Caterpillar 3208T engine that develops 225 engine horsepower, 195.65 P.T.O. horsepower. The 636 cu. in. turbocharged engine is a compact V8 with 24 percent torque rise. It's recognized worldwide as an easy maintenance engine with superior fuel economy.

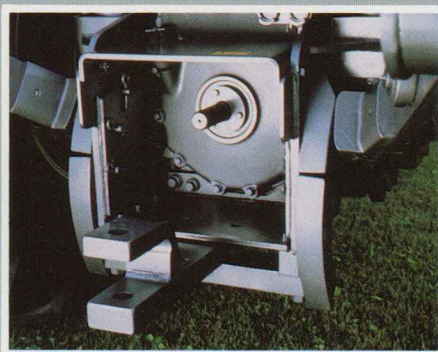
power and a transmission



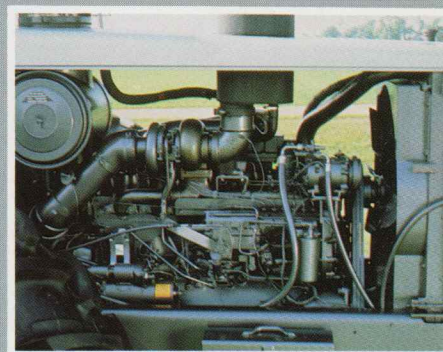
Here's where you need White Farm lugging power and on-the-go shifting... bringing big tillage tools through the valleys and over the hills. The 4-270 is rated at 270 engine horsepower with torque rise of over 27 percent. P.T.O. horsepower is 239.25.



This center carrier gives smooth transmission of the 4-270's full power through tight turns and ditches.



You get a "live," full power PTO because of White Farm's unique in-line drive system. Most manufacturers can't offer it.

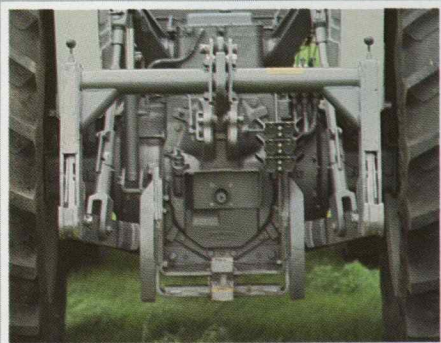


These Cat engines are known for their dependability and ease of maintenance. Removable side panels make daily servicing quick and easy.



A logical arrangement of shift and hydraulic levers are just beyond your right-hand armrest. The levers you use most are most handy.

These tractors are packed with earn their keep every day.



Draft control three-point hitch (4-225)



Four front and six rear lights on 4-225—
eight rear lights on 4-270



94- (4-225) or 230- (4-270) gallon
fuel tank



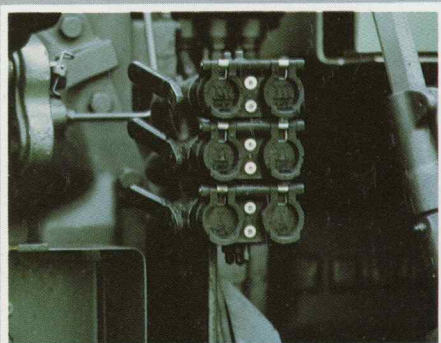
Fully equipped modular ROPS cab



Heater and air conditioner



Power hydraulic and wet disk brakes



Two (4-225) or three (4-270) valves and
lever couplers



Duals with cast iron and pressed
steel wheels

Specifications

Engine Features

Full pressure lubrication system with full-flow filters
and oil cooler
Pressure cooling system with centrifugal pump,
thermostatic control
Dry-type dual element air filter with aspirated precleaner
Automatic ether starting aid (4-270)

Engine Specifications

	4-270	4-225
Model	3306 DITA 6-cylinder in- line Cat diesel, Direct injection, turbocharged and aftercooled	3208T V-8 Cat diesel, Direct injection and turbocharged
Displacement	638 cu. in. (10.45L)	636 cu. in. (10.4L)
Engine horsepower (Kw)	270 (201)	225 (168)
Drawbar horsepower (Kw)	207.98 (155.2)	168.78 (125.9)
PTO horsepower (Kw)	239.25 (178.5)	195.65 (145.9)
Compression Ratio	15.0:1	16.5:1
Bore & Stroke	4.75 x 6.0 in. (12.07 x 15.24 cm)	4.5 x 5.0 in. (11.4 x 12.7 cm)
Governed Speed Range	875-2330 rpm	800-2600 rpm
Rated speed	2100 rpm	2600

Drive Train

19 $\frac{3}{4}$ in. (501.7 mm) power hydraulic wet disc brakes,
self adjusting
Differential lock engaged on-the-go
Inboard planetary final drives (4), 116-in.
(2946 mm) axles

4-270

Multiple plate wet clutches (4)
4 X 4 Powershift transmission (standard)
• 16 speeds forward, 4 reverse
• 4-speeds manual, 4-speeds powershift
• Constant-mesh helical gears

4-225

13" dual plate cera metallic clutch
3 x 6 Over/Under powershift
• 18 speeds forward, 6 reverse
• 6 speed manual, 3 speed powershift
• Constant-mesh helical gears

Shipping Weight (less operator & fuel)

4-270	29,060 lbs	(13,182 kg)
4-225	22,760 lbs	(10,324 kg)

Hydraulics

4-270

One 27 GPM charged closed center pump (@2100 rpm)
Three remote detent valves with lever couplers 2250 psi
(15520 kPa) system pressure

4-225

One 25 GPM charged closed center pump (@2600 rpm)
Two remote detent valves with lever couplers 2250 psi
(15520 kPa) system pressure

Hitch

4-270

Wide swinging drawbar

4-225

Cat. III Draft Control 3-pt. hitch with swinging
drawbar and Cat. III Quick Coupler or Cat. II-IIIIN
Quick Coupler

Power take-off

Independent "live" 1000 rpm full power, 1.75" shaft

no-cost extras that

Electrical

12 volt system with 90 amp alternator
Three (4-270), Two (4-225) low-maintenance batteries (12 volt)
Two grille-mounted dual beam headlights
Two cab-mounted front floodlights
Six (4-225) or eight (4-270) rear floodlights
Two tail lights
Four amber flashing lights with turn signals

Instrumentation

Selectable digital display for: engine rpm, PTO rpm, ground speed, engine oil pressure, coolant temperature, voltmeter, fuel level and exhaust temperature
Hourmeter
15-channel monitor (warning lights with alarm) for: engine oil pressure, coolant temperature, coolant level, engine air filter restriction, exhaust temperature, power shift oil temperature, power shift clutch pressure, power shift oil filter restriction (4-270 only), hydraulic oil temperature, hydraulic oil filter restriction, front final drive and transmission oil pressure, rear final drive oil pressure, low fuel level, battery voltage, air conditioner freon pressure.
Indicator lights for: differential lock, right & left turn signals, and high beam headlights

Optional Equipment

4-270

Cat. IV draft control 3-pt. hitch with Cat. III Quick Coupler with swinging drawbar
Fourth remote detent or float valve
Coolant heater; Swivel seat
AM/FM radio; AM/FM stereo; AM/FM/8-track; AM/FM/cassette (field installed)

4-225

Cat. II-IIIIN quick coupler with swinging drawbar
Third remote detent or float valve
Rear wheel guard fuel tanks—78 gallon
Heavy duty, wide swinging drawbar
Ether starting aid
Coolant heater; Swivel seat
AM/FM radio; AM/FM stereo; AM/FM/8-track; AM/FM/cassette (field installed)

Travel Speeds

4-270 @ 2100 RPM with 18.4-38 R1 tires

Gear	Power Shift Range							
	A		B		C		D	
	MPH	KPH	MPH	KPH	MPH	KPH	MPH	KPH
1	1.9	3.0	2.2	3.6	2.7	4.3	3.2	5.1
2	3.4	5.5	4.1	6.6	4.9	7.9	5.8	9.4
3	6.4	10.2	7.6	12.3	9.2	14.5	10.8	17.4
4	11.7	18.8	14.0	22.6	16.9	27.1	19.9	32.1
R	2.9	4.7	3.5	5.7	4.2	6.8	5.0	8.0

4-225 @ 2600 RPM with 18.4-38 R1 tires

Gear	Power Shift Range					
	Under		Direct		Over	
	MPH	KPH	MPH	KPH	MPH	KPH
1	2.0	3.2	2.5	4.0	2.9	4.7
2	2.6	4.2	3.3	5.2	3.8	6.1
3	3.5	5.6	4.3	6.9	5.1	8.2
4	4.6	7.4	5.6	9.0	6.6	10.6
5	6.7	10.8	8.2	13.2	9.7	15.6
6	11.7	18.8	14.2	22.9	16.9	27.2
1R	2.3	3.8	2.9	4.6	3.4	5.5
2R	4.1	6.6	5.0	8.0	5.9	9.5

Modular Cab

Integral R.O.P.S. frame
Air conditioner and heater
Pressurizer (blower) with filter
Adjustable suspension armrest seat
Deluxe upholstered interior
Hydrostatic power steering with tilt-telescoping wheel
Windshield wiper, domelight, cigar lighter, ash tray, rear view mirrors, instrument and control lights, tinted glass

Dimensions

4-270 with 18.4-38R1 or 24.5-32 tires

Wheel Base	129.5 in.	(329 cm)
Length with Hitch	273 in.	(693 cm)
Height to Top of Cab	127 in.	(323 cm)
Axle Width	116 in.	(295 cm)

4-225 with 18.4-38R1 tires

Wheel Base	118 in.	(300 cm)
Length W/O Drawbar Hitch	244 in.	(620 cm)
Height to Top of Cab	123 in.	(312 cm)
Axle Width	116 in.	(295 cm)

Ground Clearance

4-270 with 18.4-38 or 24.5-32 tires

Front Frame	20 in.	(51 cm)
Articulation Center	18 in.	(46 cm)
Under Drawbar	16 in.	(41 cm)

4-225 with 13.4-38 tires

Articulation Center	18 in.	(46 cm)
Under Drawbar	17 in.	(43 cm)

Tire Sizes

Duals (cast iron wheels inside, steel outside)		
	4-270	4-225
18.4-38, 8 ply, R1 (standard)	X	X
18.4R-38, 8 ply, R1 Radial	X	X
18.4-38, 8 ply, R20		X
18.4-42, 10 ply, R1	X	X
20.8-38, 8 ply, R1	X	X
20.8R-38, 8 ply, R1 Radial	X	X
20.8-38, 8 ply, R20	X	X
24.5-32, 10 ply, R1	X	
24.5R-32, 10 ply, R1 Radial	X	
Singles (cast iron wheels)		
18.4-42, 10 ply, R1		X
20.8-38, 8 ply, R1		X
20.8-38, 8 ply, R20		X
23.1-34, 8 ply, R1		X
23.1-34, 8 ply, R20		X
24.5-32, 10 ply, R1	X	X
24.5-32, 10 ply, R20	X	X
30.5L-32, 10 ply, R1	X	X
30.5L-32, 10 ply, R20		X

Wheel Treads

24.5-32 10 Ply Singles	66 in.-124 in. (168-315 cm)	
18.4-38 8 Ply Duals	4-270	4-225
	Inner	60 in.-77 in. (152-196 cm)
	Outer	111 in.-124 in. (282-315 cm)

Capacities

4-270	U.S. Measure	Metric	Imperial
Fuel	230 gal.	870.6L	191.5 gal.
Cooling System	12 gal.	45.4L	10.0 gal.
Crankcase W/Filter	29 qt.	27.4L	24.1 qt.
Trans., Front Drive, 4 x 4	22 gal.	83.3L	18.3 gal.
Hydraulics, Rear Drive	23 gal.	87.1L	19.2 gal.

4-225	U.S. Measure	Metric	Imperial
Fuel	94 gal.	355.8 L	78.3 gal.
Cooling System	11 gal.	41.6 L	9.2 gal.
Crankcase W/Filter	20 qt.	19 L	16.7 qt.
Trans., Front Final Drive	23 gal.	87.1 L	19.2 gal.
Hydraulics, Rear Final Drive	23 gal.	87.1 L	19.2 gal.
3 x 6 Power Shift	6 qt.	5.7 L	5.0 qt.

Manufacturer reserves the right to change design and/or specifications without notice or obligation.



Service support that keeps you moving ahead.

At the dealership and at the factory, there's a full service team ready with an inventory of parts and a storehouse of product knowledge.

White Farm dealers can also tap into the White Information Network—a computerized parts retrieval system. It's your assurance that you'll get the right part without delay.

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Division of **ALLIED PRODUCTS CORPORATION**

Form No. FP88-330 15M88
Printed in U.S.A.

