

## Tractors Follow Lead Of Magnum, Maxxum Models

RACINE, Wis. — J I Case has announced the introduction of a new line of Case International tractors that range from 42 to 85

PTO horsepower.

The new 3200/4200 Series tractors follow the lead, in styling and productivity features, of the popu-

lar Case International Magnum™ and Maxxum® tractor lines.

The new line replaces Case International 95 Series tractors with

the 3220, 3230, 4210, 4230 and 4240, rated at 42, 52, 62, 72 and 85 PTO horsepower, respectively. All the new models feature improved cooling, transmission, clutch and chassis. Cab versions feature new right-hand controls and other enhancements.

"These new tractors are powerful, versatile performers," said Steve Warner, J I Case product manager, mid-sized tractors. "They will more than meet the needs of full-time farmers and ranchers doing feedlot, loader and hay chores, and of grain farmers looking for PTO capabilities for dependable mowing, auger and other utility work."

One important feature Warner noted is the exceptional cooling that extends engine life on the new tractors. The large front and side grill-screen area provides high air intake. A new flare-tip fan optimizes air flow through the heavy-duty radiator, while the shroud on the fan provides a tight seal that keeps trash out of the radiator compartment and further increas-



The 72-horsepower 4230 is one of a new line of Case International tractors that range from 42 to 85 PTO horsepower. The 3200/4200 Series tractors follow the lead in styling and productivity features, of the popular Case International Magnum™ and Maxxum® tractor lines. All five models in the line feature improved cooling, transmission, clutch, and chassis.

es air flow through the radiator for better cooling. A new full-width air conditioning condenser ensures uniform air flow.

## Conference To Feature Ostrich

NAZARETH (Northampton Co.) — Ostrich expert Dr. Thomas N. Tully Jr. will be the featured speaker at the Penn/Jersey Alternative Animal Conference on April 15-16 at the Days Inn in Allentown.

Tully is on the faculty at Louisiana State University School of Veterinary Medicine, teaching in the zoo and exotic animal section of the department of veterinary clinical sciences.

His presentation will cover the Ratite family, including Ostrich, Emu, and Rhea. He will touch on all areas of management, including health, nutrition, reproduction, housing, and breeding.

Other experts at the conference speaking in concurrent sessions and their topics are George Faison, Jersey City, N.J., will cover the marketing of specialty meats. Dr. Duncan Hilchey, Cornell University, will discuss evaluation of alternative animal enterprises for profitability. Josef Kerckerinck, Chaumont, N.Y., will present raising deer as an alternative for small farms. Penn State Extension Agent Chet Hughes will share information on minor cattle breeds.

Mini-donkey will be discussed by Cecilia Uhlmann from Dover, Del. William Trace is the president of the Pennsylvania Game Bird Breeders Association and he will cover raising game birds as an alternative. Llamas will be discussed by Carolyn Blalock from California. Phillip Metzger, USDA, will present information on cooperative marketing as an opportunity to maximize income.

New Jersey Extension Agent Robert Mickel has experience in local zoning and ordinances he will share. The final speaker will

be Roger Cocivera, vice president of Penn Linen and Uniform Services, with an inspirational message, "How To Do It!"

The conference begins Friday evening and runs through to Saturday afternoon. A feature on Friday

evening will be a hospitality room featuring exotic dishes made from exotic species. Registration deadline is April 8. For more information and a brochure, contact the Northampton County Extension Office, (610) 746-1970.

## Soil Moisture Key To Seed Germination

GOLDEN VALLEY, Minn. — Adequate soil moisture is vital to achieving maximum germination in corn fields, said Win Johnson, Northrup King Co. senior agronomist in the western U.S.

Johnson said that seed with good vigor contains an ample supply of key sugars. When the seed absorbs water, it reacts with these sugars, immediately triggering germination. Experts believe seeds that are slow to germinate suffer from a shortage of these important sugars.

A seed must absorb about 50 percent of its weight in water to achieve good germination, the Northrup King agronomist said. When planting corn on irrigated ground, soil moisture should be in

the range of 70 percent to 100 percent of field capacity for rapid seed absorption of water. Soil moisture in the 10 percent to 12 percent range is typically too dry for germination.

To determine if soil moisture is adequate, Johnson suggests growers squeeze a handful of soil. If the soil sticks together, moisture levels are probably about right for planting. If the soil is muddy, it's probably too wet for planting. If it falls apart, it is too dry to germinate seed satisfactorily.

Many growers plant by the calendar. Johnson advises growers to plant as early as possible and suggests that conditions are best when the soil temperature is 55 degrees Fahrenheit at four inches deep at 8 a.m.

Ideal seeding depth also depends on soil conditions, he says. In cold, moist soils, planting shallow at one to one-and-one-half inches is generally sufficient. However, even in drier soils, two to two-and-one-half inches is considered maximum depth. Johnson explains that when planted deeper, the seed may not be able to push the coleoptile out of the ground.

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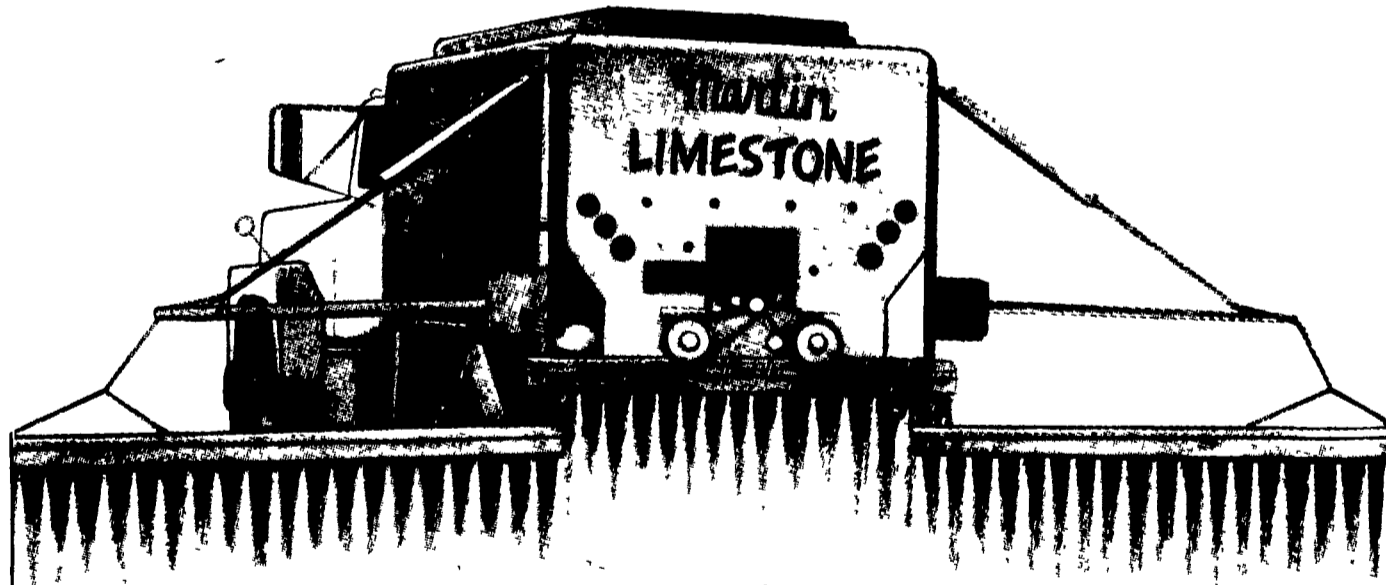
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