

MF debuts 3 forage harvesters

DES MOINES, Ia. — Massey-Ferguson introduces three new forage harvesters that make forage cutting quick and efficient. They are the MF 680, MF 684 and the MF 688 pull-type forage harvesters.

All three forage harvesters can be equipped with row crop, pickup or direct cut headers in a variety of widths to match available tractor horsepower and individual farm management programs.

The MF 680 operates at 540 RPM and is designed for use with tractors with 60 to 115 PTO horsepower. The MF 684 is operated at 1000 RPM for use with tractors in the 60 to 175 PTO horsepower range. The MF 688 also operates at 1000 RPM and is designed for 90 to 250 PTO horsepower tractors.

Cutting Knives

Eight 'C'-shaped cutter-head knives provide uniform cutting and increase crop flow-through from the cutting cylinder to the blower, reducing horsepower requirements. The knives aggressively move the forage material back into the blower and minimize bunching problems.

The 55-degree knife angle on each model provides steeper cutting angle for more scissor-like cutting efficiency. Large openings between the knives increase crop flow into the cutter head.

The helical knives, with two cutting edges, are reversible for longer life. A full-width electric knife sharpener is standard on the MF 684 and MF 688 and optional on the MF 680.

Blower System

An extra large, 139 sq. in. throat opening increases capacity by allowing heavy crop material to



Massey-Ferguson recently introduced three new pull-type forage harvesters, including the MF 680, MF 684 and MF 688 models.

move smoothly into the cutter head. Direct feeding into the blower eliminates augers and spinners for increased efficiency and crop flow.

A large 36-inch diameter blower fan maximizes air flow for minimal plugging risk. For easy and complete access to the blower and cutting cylinder, the blower swings out a full 90 degrees without tools. This feature makes field maintenance and service quick and efficient.

An overrunning clutch protects the tractor's driveline. All three models are shear-bolt protected at the feed rolls and cylinder. Large U-joints and PTO shafts further increase reliability and machine life.

The harvesters, each constructed with a simple rugged design, have fewer moving parts to maximize cutting efficiency and reduce maintenance time.

All models feature a rugged 5-by-5-inch frame construction which stands up to heavy use.

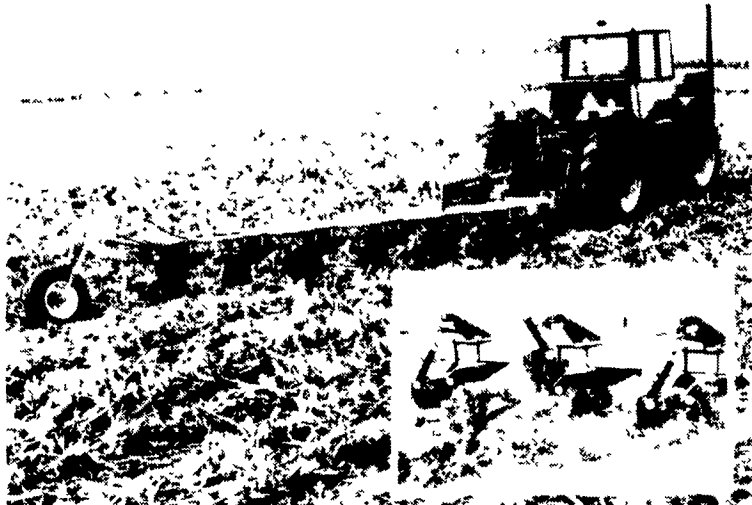
Electric Controls

For operator controls from inside the tractor cab, electric controls for spout rotation, spout deflector and reversible feedroll transmission shift are standard on the MF 684 and MF 688 and optional on the MF 680.

For more information on the MF 680, the MF 684 and the MF 688 pull-type forage harvesters, contact your local Massey-Ferguson dealer.



BUSINESS NEWS...



New safety trip option has been announced by Howard Rotavator for its Paraplow.

Paraplow adds safety trip

MUSCODA, Wisc. — When the Howard Paraplow was launched in mid-1983, it featured shear bolt protection for its soil-loosening "legs." Now the manufacturer, Howard Rotavator Company of Muscoda, Wisc., has announced a new safety trip option for Paraplow customers.

"The new safety trip greatly expands Paraplow territory and applications," says Brian Inverarity, Product Manager, "allowing it to be used in a wider variety of soils and more difficult conditions."

The Paraplow is a unique tillage tool used by both conservation-till and no-till farmers to loosen the soil underground while leaving the surface undisturbed. Its legs slice into the ground at a 45-degree angle and fracture soil by lifting it from beneath. As the soil flows over each leg, compaction is broken uniformly to the full 14" working depth, vertical pores are restored to facilitate water movement, and residues are kept on the surface to control erosion.

Two Paraplow Series are offered: the fully mounted 1100 with 3 or 4 legs (60" and 80" wide) and the semi-mounted 1800 with 5 or 6 legs (100" and 120" wide). A choice of high-clearance "trash type" or

clean-surface "pasture-type" legs is also offered.

"With the new trip leg," Inverarity adds, "the convenience and time-savings are tremendous. No longer does the farmer have to climb off the tractor to change a shear bolt."

The new trip is a spring-loaded, toggle type which lets the leg pivot backward to an above-ground position when an obstacle is encountered. All the operator has to do then is hydraulically raise the PARAPLOW. The weight of the leg and the spring action automatically return the leg to its working position. The PARAPLOW is then lowered back into the ground and operations can continue.

The trip is available as an option to the standard shear bolt on new models, or as a conversion kit for models already in the field with shear bolts. The new assembly adds about 60 lbs. to each leg. Both "trash" and "pasture" legs can be trip-protected.

For more information on the Paraplow or new safety trip option, contact Howard Rotavator Company, 102 Howard Avenue, P.O. Box 7, Muscoda, WI 53573. Telephone (608) 739-3106.

Woodland conferences set

MECHANICSBURG — The Pennsylvania Forestry Association will be sponsoring three regional programs for woodland owners in 1984:

Northeastern Pa. - Saturday, July 28, Pocono Hershey Resort - White Haven, Pa.

Southcentral Pa. - Saturday, Sept. 15, Ramada Inn - Breezewood, Pa.

Southeastern PA - Saturday, Sept. 29, Holiday Inn - Lancaster, Pa.

Subjects which will be covered include: forest management practices for timber production and unproved wildlife habitat; how to sell timber; factors that determine the value of standing timber; where to find forestry assistance; and more.

Because of limited space, pre-registration will be necessary. Programs are scheduled to begin at 9:15 a.m. and end at 2:30 p.m.

Coffee and donuts will be available in the morning and a hearty buffet lunch will be served at noon. The cost of registration is only \$15 for the conference in Northeastern Pa., and \$12 for the two conferences in the Southeastern and Southcentral Pennsylvania. A special reduced rate is also available for additional family members. In addition to the buffet lunch and refreshments, registration fees also include a Woodland Owner's Information Packet full of useful and informative forestry information. The program is open to the public and will be an excellent opportunity to learn more about your forestland

For more information and registration forms, contact the Pennsylvania Forestry Association, 410 East Main Street, Mechanicsburg, PA. 17055; phone (717) 766-5371. Registration forms for all 3 conferences are available.

Fleur de Lait expands

NEW HOLLAND — Ground-breaking ceremonies took place recently in Fleur de Lait Foods, Ltd. in New Holland for a 15,000 square foot refrigerated warehouse as part of an expansion program of the company's present facilities.

According to President Clifford Marquart, "the new facility is part of a significant plan of growth for the company and represents a continuing commitment to Lancaster County with its abundant supply of quality milk."

Formerly Zausner Foods, Fleur de Lait is a subsidiary of Bongrain International and has been located at the New Holland site since 1963. Under new management for the past five years, Fleur de Lait now

manufactures a line of specialty cheeses and gourmet dairy products that are distributed nationally. Two of the most successful products are Creme de

Neufchatel spreadable cheeses available in fourteen flavors and New Holland Low Salt/Reduced Fat semi-soft cheese available in five flavors.

New Polled Hereford member

KANSAS CITY, Mo. — Ann Hutschenreuter, R2 Airville, recently has become a junior member of the American Polled Hereford Association, according to an announcement from the beef breed's national headquarters in Kansas City, Mo.

Junior memberships have been given to thousands of boys and girls in every state in the nation by the American Polled Hereford

Association, entitling them to reduced fees and certain privileges the same as adult members.

"The American Polled Hereford Association is the national promotion and registration organization for Polled Herefords, fastest growing major beef breed in the world. There are over 250,000 owners and breeders of Polled Herefords in the U.S.



Standing left to right: Debi Sindall, Plant Administrations Manager; Ron Fox, Superintendent Cheese Production; Alan Tobie, Purchasing Manager; Philippe Jallon, Vice-President; Cliff Marquart, President; Eugene Lowry, Mayor of New Holland; Jeff Gehman, Distribution Manager.