



BUSINESS NEWS...

*Doane publishes
ag computing directory*

ST. LOUIS, Mo. — An all-new Doane's Agricultural Computing Directory tells farmers the what, where, how and who of farm computers and software. It contains descriptions of some 600 agricultural software packages, the most useful microcomputers for farmers and ranchers, electronic ag information services, a state-by-state list of computer experts to contact at state universities, and the editor's own insights on how to select the right software and hardware for farm or ranch use.

"It's the result of the most thorough search to date for ag software, useful electronic services and farm computer experts," according to Scott Watson, editor of this new Directory and editor of Agricultural Computing newsletter. "It will be helpful to farmers in selecting computer software and is the starting place for them to learn what software and hardware are available for their needs."

The listing of 600 software packages offered by more than 150

companies is categorized by the type of job performed. The explanation of each package includes the price, where to buy it, and the hardware needed to run it.

Only those microcomputers for which considerable agricultural software exists or is being developed are included, with specifications for each.

The list of computer networks and on-line information services gives the type of service available, primary use, and who to contact. The university and extension service contacts that are listed are qualified and interested in helping farmers and ranchers with their computer problems. Types of software available from each state university are also outlined.

The feature articles provide expert advice by the editor on buying a computer, how to select the right software and how to pick peripherals for on-farm use.

The Directory, which sells for \$10, is available from Doane Publishing, 11701 Borman Drive, St. Louis, Missouri 63146, phone (314) 569-2700.

New from Hesston: tractors and mower-conditioner

HESSTON, Kan. — Hesston's Model 70-66DT (62 PTO hp) and 80-66DT (70 PTO hp) high-clearance four-wheel-drive tractors are ideal for use in vegetables, rice, tobacco and other specialized crops. Both feature new Fiat four-cylinder diesel engines offering increased torque reserve, lower fuel consumption and clean burning. Drawbar height is 25.7 inches.

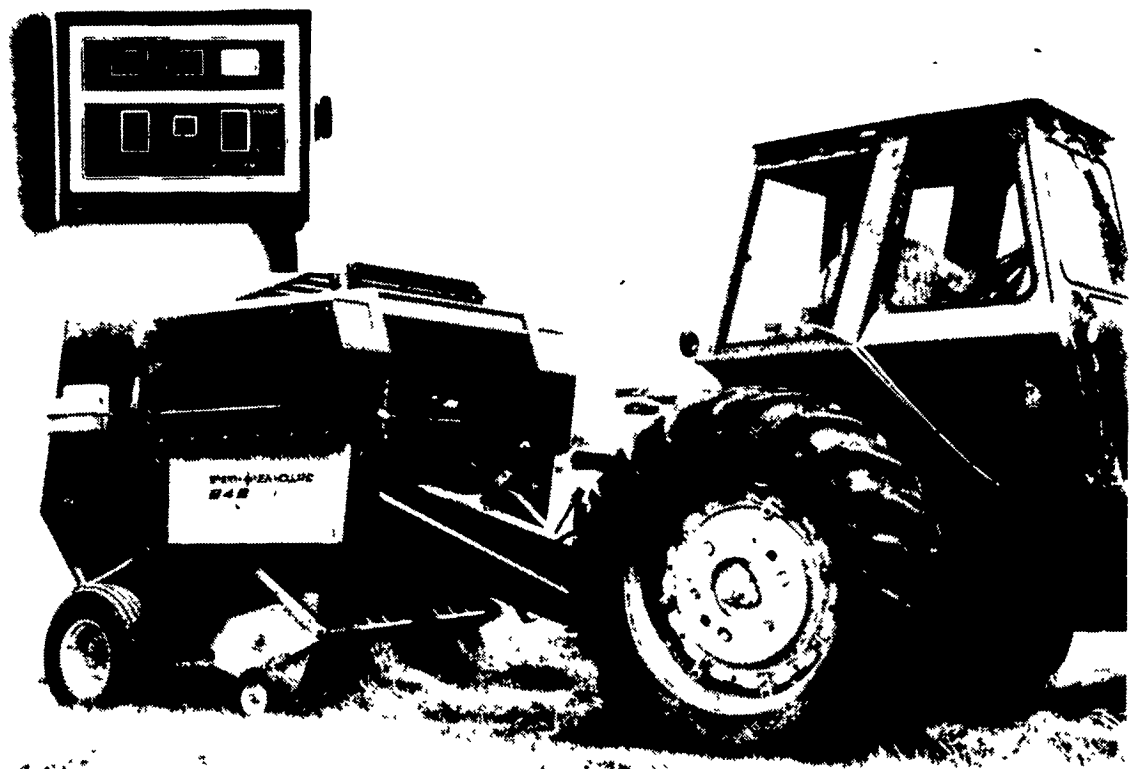
These diesel engines have been equipped with a redesigned, high-strength crankshaft. The latest in laser and computer technology was used in designing the new engine head, which utilizes "Spiral" intake ducts for increased air intake. This produces extra turbulence necessary for improved fuel/air mixture. Redesigned pistons, with a new Omega profile combustion chamber, produces increased

atomization of fuel and air to further enhance fuel economy.

These high-clearance models operate with a 12-speed constant-mesh transmission (12F/4R) with synchronized speeds in each range. An optional creeper speed reduction unit is also available. Hydrostatic power steering is standard, as is a fully independent PTO (540 rpm). They also offer proportional ground speed.

"Our new high-clearance tractors have been designed with the latest in farm technology, and they are equipped with efficient Fiat-built engines," said Product Sales Manager Ken Garrett. "The new design and special features should serve this particular market well."

The three-point hydraulic lift offers the same advanced features as Hesston's new 66 Series trac-



Sperry New Holland's new Model 848 round baler makes a bale four feet wide by four and one-half feet in diameter. The unit can be equipped with the company's new Memory Wrap system (inset).

**Sperry New Holland
unveils 4-foot round baler**

NEW HOLLAND — A new chain-type round baler from Sperry New Holland makes a bale four feet wide and four and a half feet in diameter. The bales, made by the new Model 848, weigh approximately 850 pounds at normal density and moisture contents.

Options for the new baler include a choice of three wrapping systems--manual control, hydraulic control or the new electronically controlled Memory-Wrap system. Other options are a bale kicker, reverse drive, bale

counter, chain oiler and full bale alarm.

Users say the new baler can bale at rates comparable to larger machines if equipped with the new Memory-Wrap system. Bales are dense and uniform in appearance because the narrower bale chamber is easy to fill uniformly. Performance in fescue and other grass hay is exceptional.

The Memory-Wrap system allows the operator to select both the amount of twine and twine placement on the bale. Once programmed, the Memory-Wrap

repeats, the programmed cycle indefinitely or until reprogrammed.

In addition to solving transport width restrictions, the 4-foot bale size of the new Model 848 is expected to appeal to round bale silage makers.

Increasingly, humid area hay makers are turning to round bale silage for the rain-prone first cuttings and the hard-to-dry final cutting of the season in the late autumn. The Model 848 bale is a convenient size for round bale silage stored in plastic bags.



Hesston Model 1150 HaySaver Mower-Conditioner.

tors. The exclusive Lift-O-Matic three point provides push-button control of lifting/lowering without using control levers or disrupting preset depth. Lift-O-Matic's "memory" automatically returns to correct depth. The open-center design provides draft, position and mixed control for fast, accurate response. A lower-link flexion-bar sensing system has been incorporated, plus a special control valve which regulates lift lowering speed.

Special drivelines allow use of 38-inch tires all around. The front axle is mechanically-driven and centrally located. The differential is designed with planetary final drives in hubs. Turning radius without brakes is 214 inches (4WD engaged). Wheelbase is 80.7 inches.

Also debuting is an all-new, high-capacity mower-conditioner designated as the 1150 model. This newly designed machine leaves a full-width 110-inch swath behind the giant capacity of 12- or 14-foot cutting widths.

Requiring minimum tractor power of 60 hp, the new 1150 model utilizes less horsepower (approximately 15 percent) than current 12- or 14-foot auger headers. And capacity has been shown to be equal to and often greater than comparable auger headers in tough, heavy crops.

The new rubber-on-steel HayWringer conditioner lays down a full-width swath or easily changes to windrowing with no tools or extra parts. Its simple design eliminates gearboxes and U-joints found on other wide mower-conditioners, thus minimizing maintenance. The



Hesston Model 80-66 (70 PTO hp) 4WD High-Clearance Tractor.

heavy-duty camtrack-driven reel (4 bats) uses parts common to other Hesston machines to reduce price and simplify upkeep. A fifth or sixth reel bat may be added.

The 1150's unique sickle drive mechanism requires minimal adjusting and upkeep.

The transport width of the machine is 162 inches. Hydraulic tongue-swing simplifies changing

from field to roading.

Hesston's HayWringer conditioner design provides thorough crimping of stems for fast drying and, in turn, minimizes stripping range of conditioning action. It can be set with precise gap to save more leaves or it can be tightened down until the rolls actually engage for extra aggressive conditioning.



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