

# What's New . . .

**Combine Monitors**  
**OAK BROOKE, Ill.** - Electronic performance monitors are the hottest items in farm machinery today.

They enable the farmer to increase his productivity by assuring him of optimum performance - day and night - and by substantially cutting downtime.

They help reduce repair costs.

And they save a tremendous amount of aggravation by forewarning the farmer that an equipment problem may occur, and by pinpointing the cause of the problem rather than

force the farmer to search for it all over the machine.

At the same time, improvements in and capabilities of performance monitors are expanding rapidly.

In mid-1975, White Farm Equipment Company was among the first manufacturers to offer a choice of performance monitors on its combines. The company made a seven-function monitor standard equipment on its larger machines. White Farm Equipment also provides a four-function electronic tachometer as standard equipment.

Essentially, what the four-

channel electronic tachometer does is "keep watch" over these functions: Threshing cylinder RPM, The combine's ground speed, Engine RPM, Cleaning fan speed.

Without ever leaving the cab, the farmer can maintain a visual check on the condition of the grain, both in the grain tank and in the return elevator. If anything appears to be out of the ordinary, he can monitor each of the four machine functions, simply by turning a dial.

If an adjustment is necessary, he can change the fan speed, change the cylinder speed, or make a concave adjustment instantaneously - and precisely - without leaving the cab and without ever stopping the machine.

That way, the farmer can prevent crop losses caused by machine adjustments that are inaccurate for the current crop conditions, which often vary hour-to-hour.

In previous years, farmers used to gauge the performance of a machine by its sound. Most of today's machines are equipped with cabs which make this practice impractical.

The new seven-channel monitor assists the farmer in detecting those machine variations, and even tells him where the variation is occurring. It watches over the: Clean grain elevator drive, Tailings return elevator drive, Straw walker drive, Straw walker overload, Cleaning fan drive, Cleaning shoe drive, and Crop chopper drive.

All of these functions are important to coordinated capacity - and top productivity.

During operation the operator will bring the machine to operating speed and a green light on the monitor will go on to indicate that everything is functioning correctly. The green light will stay on throughout harvesting unless one of the six shaft speeds slows down.

With the White monitor, a reduction of 20 per cent in shaft speed causes a horn to sound, and a red light signals the source of the trouble. With other monitors, the reduction in shaft speed must amount to 26-30 per cent before the operator receives a warning. In any event, the operator - thus warned - can correct the slow-down before a belt breaks and the machine gets plugged.

If the clean grain elevator drive begins to slow down, for example, it will worsen until the drive belt fails. This will result in plugging the elevator and the cross auger, and can cause a great deal of downtime, as well as a trip to town for parts.

With a monitor installed, the buzzer and red light would alert the operator and indicate the source of the problem before the failure occurred. In most cases, the operator would simply tighten the drive belt and continue harvesting.

Of course, belts will continue to stretch and wear, and eventually wear out; but a good belt - with proper tension - will have a better chance of lasting several seasons.

Most operators, once accustomed to using a performance monitor, will run their machines to the red

light limit when they begin harvesting, and then back them off a little so that the green light appears. That way, they are assured that their equipment is operating at peak performance.

The benefit of using a performance monitor, in terms of productivity, can vary tremendously. At 10 to 15 per cent increase in productivity might be a reasonable expectation.

Performance monitors are a new and useful tool for farmers. Many manufacturers now offer them as standard equipment, and almost all of them offer them as optional equipment.

Farmers who are looking for increased productivity and reduced costs will give them careful consideration.

## KOCIDE FUNGICIDE

**HOUSTON, Texas** - Kocide Chemical Corporation announces new and improved Kocide 101, a fixed copper, wettable powder agricultural fungicide currently registered on some 40 food crops.

According to Dr. Graham A. Stoner, vice-president marketing and development for Kocide Chemical, for-

mulation changes in new 101 substantially improve performance of the material. "The quantity of surfactants and dispersants has been increased so that new and improved Kocide 101 gives better performance in the spray tank and better coverage on plant surfaces."

Kocide's Research and Development Department has worked for some time on improving the formulation of the company's well known and widely accepted fungicide. "What we've really accomplished with the improved formulation," said Stoner, "is a product that gives more consistently effective disease control, even though the old formulation gave excellent protection."

Improved Kocide 101 still contains the same highly active microporous copper hydroxide as before in the form of literally millions of unique, needle-like particles that provide an available surface area four times greater than other copper fungicides. Field tests conducted on new and improved Kocide 101 showed that it consistently outperforms all other copper fungicides.

## Turkeys at record high

**HARRISBURG** - Pennsylvania farmers are expected to raise a record 3,343,000 turkeys in 1976, 18 per cent above last year and 13 per cent above the previous high of 2,951,000 raised in 1974.

Heavy breed turkeys raised in 1976 are expected to total 2,774,000, up 20 per cent from the 2,313,000 in 1975. Light breed turkeys raised during 1976 are estimated at 569,000, an eight per cent increase from the number raised a year ago.

Nationally, a record 137.9 million turkeys are expected to be raised in 1976. This level is 11 per cent above last year and four per cent above the previous high of 132.2 million raised in 1973.

Heavy breed turkeys raised in 1976 are expected to total nearly 120.2 million, up 10 per cent from the 109.3 million raised in 1975. Light breed turkeys raised during 1976 are estimated at 17.8 million, a 19 per cent increase from the number raised a year ago.

Turkeys poults hatched from September 1975

through July 1976 were 12 per cent above the corresponding period a year earlier. Heavy breeds were up 10 per cent and light breeds up 19 per cent. Turkey eggs in incubators on August 1, 1976 were eight per cent below the number in incubators a year ago.

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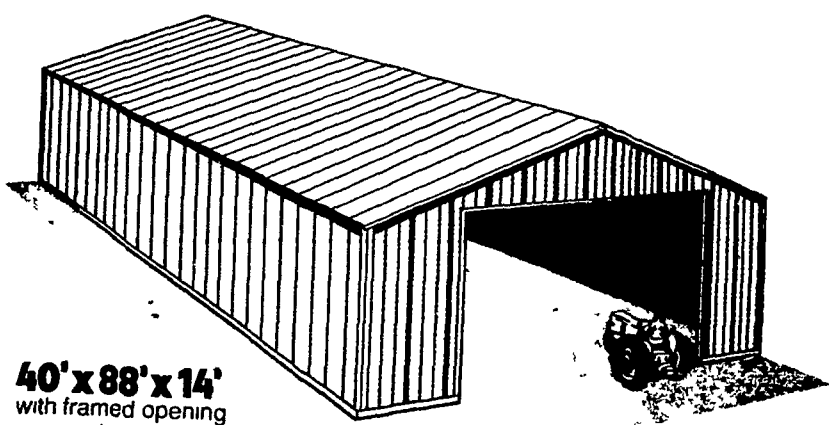
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