

## LETS YOU USE ONE-THIRD MORE AIR WITHOUT BLOWING GRAIN OUT THE BACK

# Air Foil Chaffer For Combines

"I've tested it. I know it works," says combine expert Ray Stueckle, Caldwell, Idaho, who together with B and D Equipment, of Craig, Sask., has introduced a new air foil chaffer for combines. "It permits the operator to use at least one-third more air without blasting grain out the back of the machine," explains Stueckle, author

of the popular book, "Combine Settings for Better Harvesting," which has been featured in previous issues of FARM SHOW. "Our new air foil chaffer won't correct the feeding of a combine, and won't thresh the grain, eliminate cracked kernels or reduce walker loss. However, once those things have been taken care of in the

## "AUTOMATICALLY ADJUSTS ENGINE AND GROUND SPEED TO CROP CONDITIONS"

# New Combine Governor "Saves 1 Bu./Acre"

"You can compete successfully with this control unit for a short time but not hour after hour, day after day," says Mike Matsuda, Buckeye, Colo., one of the first farmers anywhere to operate with the new "Harvstmor" control that automatically adjusts combine engine and ground speed to match crop and ground conditions.

Matsuda installed the new control on his International 1440 combine last summer. "Because it maintains a constant flow of material through the machine regardless of crop density, it frees you up to concentrate on other things, such as row alignment and cutter head height when working in downed corn. Inexperienced operators can set the Harvstmor for optimum, automatic control of the machine even in the most difficult harvesting conditions," he explains.

The Woodward Governor Com-

pany, an engine control company in Fort Collins, Colo., that's been in business for more than 100 years, builds the control unit. Company representative Dale Tegtmeier told FARM SHOW, "There are monitors on the market that warn operators about changing conditions but our Harvstmor control system is the first to adjust the machine automatically. Unlike the farmer, who will eventually get tired and make mistakes, our unit works as well during the 15th hour as the first, saving a bushel per acre or more."

The Harvstmor consists of an electronic engine speed measuring device and a small hydraulic actuator that adjusts the hydraulic transmission in response to variations in engine speed. As material flow increases or decreases, the engine monitor senses changes in engine

## ADJUSTS HERBICIDE FLOW TO AMOUNT OF WEEDS PRESENT

# New Valve Control For Rope-Wicks

If you own a gravity flow rope-wick applicator and need control over the amount of herbicide delivered by the wicks, this new solenoid-valve attachment from Wick Applicators Co., Greenville, Miss., may be the answer.

"The control is a 12V, solenoid-equipped ventilation tap. After filling the applicator tank with herbicide, you screw the control into the fill hole. The solenoid-valve works off the tractor's light switch," explains inventor John Dale. "When you want to wet the wick, just turn on the tractor's light switch. The solenoid opens the ventilator valve which permits more air to enter, thus allowing the herbicide to flow freely through the wicks. A lot of farmers

just leave the fill cap on the applicator loose to allow air to enter. But that can also permit dripping in light weed cover. With our electrical control, you can open or close the ventilator at will, right from the tractor seat.

"Where weeds are thin, the tractor operator hits the control switch to close the valve. This creates a partial vacuum in the reservoir which restricts the rate of herbicide flow to the wicks, thus minimizing dripping on the crop below. Where weeds are thick, the operator opens the valve to speed up the flow rate and ensure adequate wetting of the wick," Dale points out.

A separate solenoid-valve is

proper place, the new chaffer will add the finishing touch by virtually eliminating shoe loss and, in the process, allow you to deliver clean grain to the bin or elevator.

"Parallel louvers across the underside of the chaffer control the angle of air flow, directing air almost straight up to provide a layer of air on which chaff floats out the back of the combine. At the same time, heavier weight kernels drop through the turbulent air and fall through the screen," explains Stueckle. "The new chaffer does an excellent job of cleaning up trashy soybeans, small grains or corn."

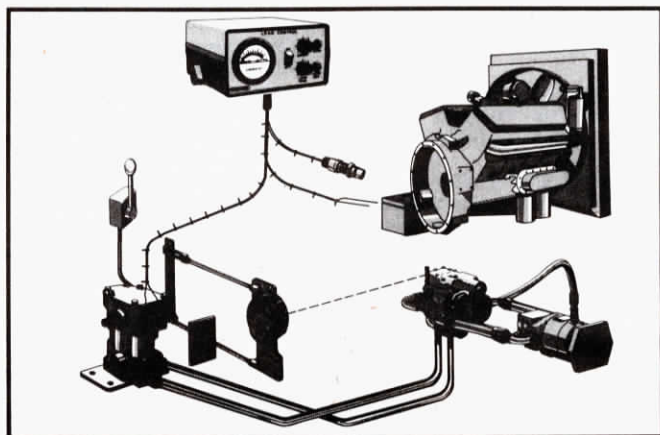
Standard models are available for 1440, 1460, 914 and 915 IH combines;

Deere's 6600, 6620, 7700 and the 7720; and the new Allis Chalmers N5, N6 and N7 rotaries. Models to fit most other combines will be available on special order.

Approximate cost of the new-style air foil chaffer is "about the same as the retail cost of a new standard chaffer," says Stueckle.

For more details, contact: FARM SHOW Followup, Ray Stueckle, R and H Machine, P.O. Box 1323, Caldwell, Idaho 83605 (ph 208 459-1508, or 1507).

In Canada, contact: FARM SHOW Followup, B and D Equipment, Box 222, Craik, Sask. SOB OYO (ph 306 734-2480).



When the Harvstmor control unit senses a decrease in engine speed in heavy crop areas, it automatically slows ground speed, maintaining a constant flow of material through the combine. A load monitor mounts in the cab.

speed and signals the actuator to adjust ground speed up or down as required to re-establish the desired pre-set level. "The control works so well that in most cases the operator will not detect a change in engine speed on the tachometer. All he'll notice is the change in ground speed," explains Tegtmeier.

To set the Harvstmor, the operator starts harvesting with all units turned off. Once the engine is running at the desired rpm level, the component controls are actuated and adjusted so that only a slight change is noticed in engine rpm's in the field. At this point, with the Harvstmor in control,

you can move the manual hydrostatic transmission level all the way forward to the maximum position and leave it there. To slow down or stop, you simply override the controls by pulling back on the lever.

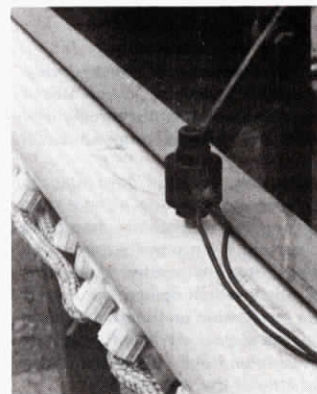
The Harvstmor control unit fits any hydrostatic combine or forage harvester and, according to Tegtmeier, most farmers can handle installation themselves. It sells for \$1,600.

For more information, contact: FARM SHOW Followup, Woodward Governor Company, 1000 Drake Road, Fort Collins, Colo. 80522 (ph 303 482-5811).

needed for each closed wick wing, according to Dale. The control is for gravity flow systems only. "We believe this is the simplest and most inexpensive system since no pumps are required as in pressurized or evacuated systems," Dale explains.

The kit includes a normally-closed 0.5 amp., 12V stainless steel solenoid-valve, copper wire, a trailer light connector that won't pull loose in thick weeds and simple instructions. The kit can be retro-fitted to equipment already mounted on a tractor in less than 20 minutes. Cost of the kit is \$35.

For more information, contact: FARM SHOW Followup, Wick Applicators Co., P.O. Box 1841, Greenville, Miss. 38701 0017 (ph 601 332-5840).



Electric valve lets more or less air into applicator to control herbicide flow.