

**PUT A PAIR OF \$95 MATERIAL-MOVING PADDLES ON THE PLATFORM AUGER**

## Low-Cost Way to Boost Capacity Of Your Conventional Combine

Putting a pair of \$95 material-moving paddles on the platform auger could boost capacity of your conventional combine up to 25% or more, and reduce grain loss to practically zero.

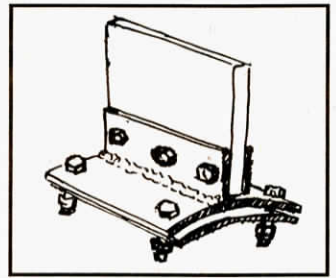
So says Montana farmer Don Hicks, of Geraldine, who teamed up with neighbor Ray Wishman to develop Feedmaster bolt-on paddles (each 4 in. high and 6 in. wide) that help move material onto the feeder chain. "We're recommending them for all

makes of conventional combines," says Hicks. "It only takes two paddles to solve the universal feeding problem and give your conventional combine the nearly comparable harvesting capacity and efficiency of a rotary.

"For years we had feeding difficulty with our Massey 510 combines, especially when we encountered short or weak straw. We discovered that the problem with this and other conventional combines is related to a

universal problem —poor flow of crop material from the platform auger to the feeder house and chain. When we equipped 510's with prototype Feedmaster paddle attachments to help move slugged material along, capacity was increased by about 30% and grain loss over the sieves was practically eliminated," says Hicks.

He and Wishman are now manufacturing and marketing their new Feedmaster paddles at \$95 per set of two, including mounting



brackets and bolts but not UPS delivery. Individual paddles (4 in. high and 6 in. wide) are made of a special flexible, abrasion-resistant plastic.

For more information, contact: FARM SHOW Followup, Ray Wishman, Box 247, Geraldine, Mont. 59446 (ph 406 737-4342).



Vacuum fan sucks bugs up into 4-row machine through large plastic tubes.

## "Beetle Eater" Blows & Sucks Bugs Off Plants

"We've totally eliminated the need for chemicals," says Jimmy Szyal, the Florence, Mass., inventor of the tractor-powered "Beetle Eater" that blows bugs off crops and then sucks them up to kill them.

Szyal got the idea when a local potato grower came to him for a machine that would get rid of beetles in his potato fields without the use of chemicals. His prototypes have worked so well he's now testing the machine on insects in other crops.

"When I first built the machine I had trouble because I tried to pull bugs off the plants only using vacuum. The problem was that bugs hide under leaves or down in the middle of the plant. That's when I got the idea of blowing them off the plant before sucking them up," says Szyal. He says the Beetle Eater now gets 85 to 90% of all bugs in the crop, which is as good or better than the chemicals commonly used on potatoes.

Two large, pto-powered 28-in. dia. fans provide the blowing and sucking power. One fan blows air to each of the four rows through a 3 by 10-in. rectangular duct while the other sucks air in from the four rows through a 12-in. dia. flexible plastic tube.

Air travels at about 300 mph coming out of the blower tubes, blasting up under the plants. As the insects are dislodged, they're blown toward the large vacuum tube that's positioned over the top of the row. Bugs are sucked through the tube and right into the fan blades which kill the bugs and then blow them back out onto the field.

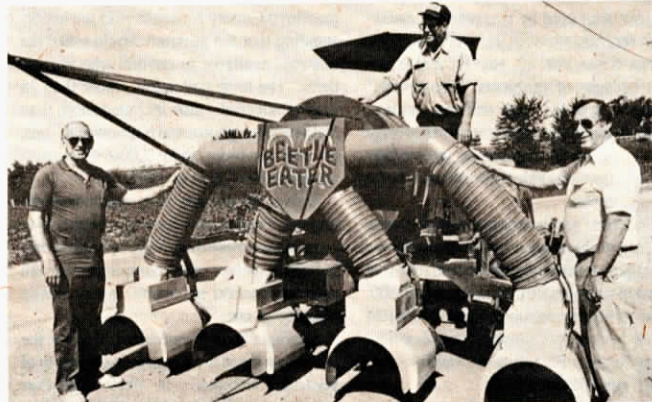
"We can get right down close to the ground so we remove beetles off the entire

plant. Requires only about a 60-hp. tractor and we can travel fast at 6 or 7 mph," says Szyal.

This summer Szyal has been testing his two 4-row prototypes in soybeans, edible beans, pepper, cotton and other crops, in addition to potatoes. "We think it'll compete effectively with chemicals in many different crops. There's very little to maintain or go wrong on the machine. Interest has been tremendous by everyone who's seen it work," he says.

The Beetle Eater is patented and Szyal is looking for a manufacturer.

For more information, contact: FARM SHOW Followup, James Szyal, 88 N. Main St., Florence, Mass. 01060 (ph 413 584-2859).



The "Beetle Eater" requires only a 60 hp. tractor and works at speeds of 6 to 7 mph.



Elevated ATV rig converts back to regular use in minutes, according to Jorgenson.

## "Clean Bean" Machine Made From 3 Wheeler

"It's one way to turn accident-prone 3 wheelers into a safe and practical alternative use," says Minnesota farmer Mike Jorgenson, of Montevideo, who teamed up with local blacksmith Jim Adolph to turn a 175 cc Kawasaki 3-wheel ATV into a "clean bean" machine for spraying soybeans and other row crops.

"One person working alone with this rig can spray 40 acres of a moderately infested

field in two hours," Jorgenson points out. "Two quarts of Roundup and 25 gals. of water will cover about 80 acres for a total cost of only 40 cents per acre."

Jorgenson notes that travel speed of the converted 3 wheeler is infinitely variable up to 35 mph. "We raised the machine about 36 in., reduced the transmission ratio to slow field speed and equipped the rear wheels with belt drive.

"Total cost of the conversion was right at \$1,000. We incorporated features that allow the 3-wheeler to convert from spraying to regular use, or vice versa, in a matter of minutes. If I had it to do over, I'd convert to a spray rig and leave it in that configuration permanently, which would reduce total conversion cost - including the spray tank, pump and wand - to about \$600. Most any 3-wheeler with a 175 cc or larger engine and 4 forward speeds would be a candidate for this conversion."

Jorgenson and Adolph plan to offer custom conversions, or kits for do-it-yourself conversions.

For more information, contact: FARM SHOW Followup, Mike Jorgenson, Rt. 1, Box 133, Montevideo, Minn. 56265 (ph 612 793-6782).