

"Two-Way" Plow

The Wye "Double-Digger" teams a moldboard plow together with a rotary chisel in order to dig out subsoil and mix it with topsoil.

Developed at Wye College, London, the new tillage tool has been tested at experimental test stations around the world, including Purdue University in Indiana.

The Double-Digger consists of a rotating chisel plow and a 1-bottom plow. The rotating chisel digs down to a depth of 20 in., pulling up subsoil in the furrow opened up by the plow on its previous pass. Immediately behind, working at a depth of 9 in., the moldboard turns a layer of topsoil over the worked-up subsoil.

According to researchers at Wye College, the new tool breaks through the hardpan in most soils, improving soil drainage and improving water availability by promoting deeper root penetration. It's also designed to enrich the soil by bringing up deep subsoils and mixing them with depleted topsoils, boosting yields and improving crop quality and uniformity. Researchers point out that the chisel actually provides forward tractor thrust, helping pull the plow along.

Contact: FARM SHOW Followup, The Wye Double-Digger Co. Ltd., Venture, Plain Road, Smeeth, Ashford, Kent TN25 6QU England.

Step Slope Monitor

Tractor rollovers are a frequent occurrence in the highland country of Scotland where farmers often farm land that's so steep it's difficult to stand up much less negotiate a tractor. The Scottish Institute of Agricultural Engineering (SIAE) has developed a slope monitor that sets off an alarm when hill-sides are too steep to handle.

The Institute's slope alarm gives an estimate of the downhill slope on which sliding

will occur. The operator carries out a simple braking test on a safe area of the field before starting work. Depending on how quickly the tractor brakes, the instrument will calibrate itself with a maximum safe slope for these conditions.

Contact: FARM SHOW Followup, SIAE, Bush Estate, Penicuik, Midlothian, EH26 0PH (ph 031 445-2147).

First-Of-Its-Kind Combine Yield Monitor

A new farmer-built yield monitor that mounts in the combine grain tank and measures yields on the go is now on the market in Great Britain.

Developed by Jeff Claydon and manufactured by Shelbourne Reynolds Engineering, Suffolk, England, the new "Yieldometer" lets you measure the yields of any size field while you're harvesting without unloading into wagons or through yield meters that mount on the unloading auger.

The Yieldometer paddle wheel volume measurer mounts in the grain tank below a special-built grain flow channel that ensures a steady flow of grain. On most combines, the cross auger must be reworked so that it fills the Yieldometer as grain comes into the combine. The measuring paddle wheel is power-driven, preventing bloc-

kages as it measures grain. A sensor mounted on the wheels of the combine measures area traveled, which is displayed continuously, along with the bushels measured, on a monitor in the cab. A sensor on the header turns the area sensor off when the header is lifted.

Keith Shelbourne of Shelbourne Reynolds Engineering says the new Yieldometer, which Claydon has been using on his East Anglian grain farm since 1980, will fit any combine with some modification to the tank and cross auger. In Britain, it sells for about \$3,300, installed.

For more information, contact: FARM SHOW Followup, Shelbourne Reynolds Engineering, Ltd., Shepherds Grove Industrial Estate, Stanton, Bury St. Edmunds, Suffolk, England (ph 0359 50415).

Motorized "Scarecrow"

"Stationary scarecrows no longer work for us," says John Caldwell, Angus, Scotland, who invented a motorized scarecrow that birds can't ignore.

The worst pest birds in Scotland are pigeons but Caldwell says his motorized "Rape Ranger" scares any bird. The cart has three wheels and sports a 10-ft. high orange-suited man-like figure with rubber boots and a squirrel head. The cart has a 3.5 hp. gas engine with three forward gears and reverse.

Key to the unique scarecrow is its guidance system. A small dia. wire is laid out in a circle over the field, usually a 50 to 60 acre area. The wire feeds through an eyelet at the end of a rod that attaches to the pivoting front wheel of the cart.

The cart moves at speeds varying from a "half-walk" to 7 mph, burning 1/2 pint of gasoline



every two hours. A boom cannon mounted on the bed of the cart, or an amplified tape recorder, helps scare birds even more. The Rape Ranger sells for \$1,100.

Contact: FARM SHOW Followup, Caldwell, Grange of Conon, Arbroath, Angus, Scotland DD11 3SD (ph 02416 202).

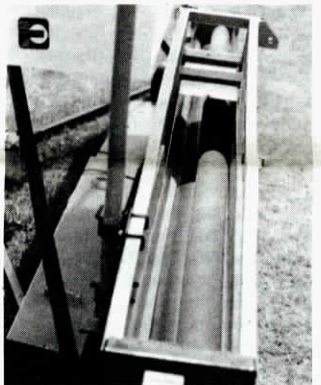
"Printing Press" Weed Wiper

"It's the most advanced design yet for a weed wiper," says Jim Gordon, about his new "printing press" roller-type weed wiper that's unique because it uses a smooth plastic-coated roller to apply chemicals like Roundup to tall-growing, above-the-crop weeds.

Chemical is applied to the smooth 12-in. dia. roller by a smaller dia. carpet-covered roller that rides just above it and acts like the inking roller on a printing press.

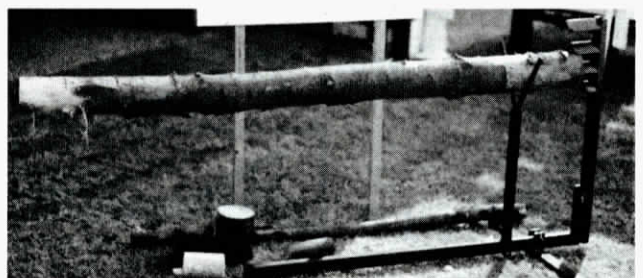
"We use a special thickening agent in the chemical that makes it thicker and easier to apply. It doesn't drip, there's no drift and it sticks to the foliage better," he notes.

Because the roller is smooth, chemical comes off it more easily when it comes in contact



with leaves, coating them like an ink roller coats paper.

Contact: FARM SHOW Followup, WRP, Ltd., 5 Perry Road, Park Row, Bristol, England BS1 5BQ (ph 0272 294349).



Universal Log Support

If you cut a lot of wood you'll be interested in this log holding idea developed in England.

The Smallford log support consists simply of a Y-shaped fork and four support points for varying size logs. The end of the log is fitted under a support point and held there tightly by

the rest of the log, which dangles out past the Y-fork.

The log support sells for \$54. Contact: FARM SHOW Followup, Smallford Planters Ltd., Hatfield Road, St. Albans, Herts. AL4 0LN England.

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