

## Hesston Introduces Heavy Duty Baler

CAROL STREAM, IL — For producers who put up a large number of small square bales, Hesston Corporation recently introduced the Model 4590 Center Line Baler.

The center line system moves the hay through the baler in a straight line from windrow to finished bale. This concept eliminates the high maintenance of the cross-conveyor systems used in conventional balers.

A wide, low-profile Maxi-Sweep pickup positioned squarely in front of the Model 4590 picks up the complete windrow. Gauge wheels on both sides allow the Maxi-Sweep's 112 tines on four tine bars to ride close to the ground, yet avoid damage.

A heavy, high-speed plunger is mounted on eight sealed ball bearing rollers. Running at 100 strokes per minute, a short stroke of 21.65 inches reduces plunger wear.

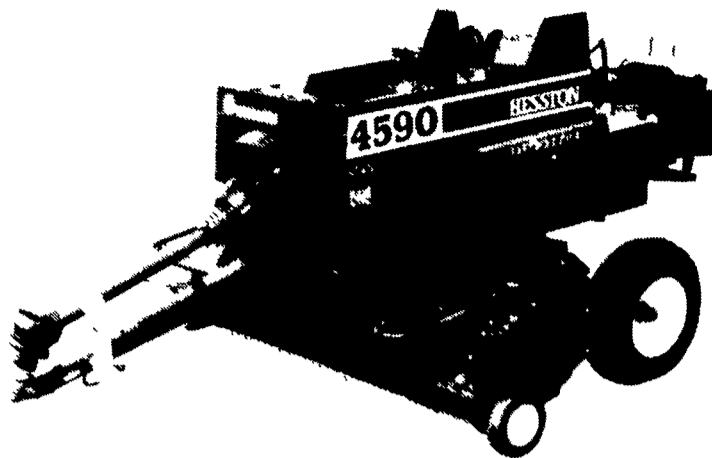
Extension spring bale tensioning assures consistent bale weight and density. Bale size can be set from 12 inches to 52 inches long. A positive bale length mechanism monitors length.

Knotters tie secure knots with either plastic or sisal twine. An optional wire twister is available. Excellent ground clearance protects needles.

Extremely maneuverable, field and road positions are the same on this wide baler. A constant velocity drive line allows sharp cornering without PTO shaft damage.

The Model 4590 joins the line of Hesston Center Line Balers, including the Model 4550 and Model 4570.

More information on the Hesston Center Line Balers can be



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obtained by contacting Art Hamerstrom, Hesston, 245 East North Avenue, Carol Stream, IL 60188.

## New Barley Resists Virus

UNIVERSITY PARK (Centre Co.) — A new winter barley cultivar developed by a Penn State researcher is highly resistant to a virus that threatens cereal crops worldwide. The virus reduces yields of susceptible barley varieties up to 50 percent.

"Barley yellow dwarf virus is probably the most widely distributed viral pathogen of small grains," said Dr. Marvin L. Risius, Penn State professor of agronomy. Pennco showed strong resistance to the virus in a recent study funded in part by the Pennsylvania Foundation Seed Cooperative.

Risius and Dr. Frederick E. Gildow, associate professor of plant pathology, conducted laboratory and field experiments, comparing viral resistance to Pennco to four other popular cultivars: Barsoy,

Maury, Venus, and Wysor.

Healthy plants of each cultivar were infested with virus-carrying aphids, then tested several weeks later for virus content and effects on grain yield. Viral levels were lowest in leaf tissue of Pennco and highest in Barsoy, the most susceptible cultivar.

The virus had little effect on grain yield of Pennco, Venus, and Wysor but significantly reduced yields of Barsoy and Maury.

Symptoms of barley yellow dwarf virus are not easily recognized and are often attributed to nutritional disorders or poor growing conditions. Barley plants infected with the virus usually have yellowed leaves, which may become red or purple. The degree of dwarfing depends on the plant's growth stage when infected.

David Kradel Herbert Jordan Milton Madison

Penn State

## Poultry Pointers



Herbert Siegel Donald Singletary Morris Mast

POULTRY INDUSTRY OUTLOOK

Milton Madison

The general economic trends have changed little from last year. Economic growth has continued at a slightly slower rate. Gross national product growth for 1990 is projected to be 2 percent. The economy's slow growth will enter its eighth consecutive year.

During the first quarter of 1990, inflation has been high relative to last year. Much of this inflation has been the result of unusual items. Cold weather in December brought higher fuel oil, fruit, and vegetable prices, while higher apparel prices hit in March. Inflation for April 1990 was 0.2 percent and the average for the previous 12 months was 4.7 percent.

While this is slightly higher than the last two years, it is much more reasonable than rates seen in the early 1980s. An inflation rate very similar to the last two years is expected for 1990.

Feed costs were lower by 5 cents per dozen for layers, 3 cents per pound for broilers, and nearly 5 cents per pound for turkeys during the first quarter of 1990. Recent substantial increases in corn prices have brought costs near levels of last year.

While corn prices are projected to be slightly higher during the next few months, soybean prices are projected to weaken as Brazilian supplies become available to

world markets. Lower corn storage levels have made feed prices increasingly sensitive to weather-related problems as this year's corn crop was being planted and starts to grow. Feed costs for the year will be slightly higher than last year because costs will not decline the last half of the year as much as they did last year.

### Broilers

Broiler production through May has been 7 percent above 1989 levels. Hatch figures were up 7 percent for January through March and up 8 percent in April. Eggs in incubators May 1 were up 5 percent. Production will be up 7 percent from 1989; wholesale prices will be lower than 1989 at 55 cents per pound. With higher feed costs, profits will be 5 cents per pound, down from last year's 10 cents per pound.

### Eggs

Production was unchanged in the first quarter but will be above last year's level for the rest of this year. The production flock was relatively old because of molting but flock replacements have been and will continue to be widespread.

The hatch in April was up 3 percent but was 16 percent higher in January through March. Production increases will lead to an egg price of 74 cents per dozen for 1990. This will give producers a 5 cent profit if corn and soybeans have a good growing season.

## Hardy Introduces New Corn Variety

CAMP HILL (Cumberland Co.) — Beachley-Hardy Seed Company has introduced Hardy Brand HB6270, a grain producing hybrid, according to Frank Welch, marketing director.

HB6270 is a full season hybrid for this region. Early trials have shown excellent yields for shelling or picking for this single cross, companion to Hardy's 797XS.

The new "Hardy Brand Corn Guide," which outlines all the varieties with specific information for every maturity range, is available through your local Hardy Brand dealer or by calling Beachley Hardy Seed Company at (717) 737-4529.

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