

# Combo-Mulch Finisher Addresses Soil Compaction

RACINE, Wis. — The Case International 4200 Combo-Mulch Finisher from J I Case combines secondary tillage needs in a single pass, cutting time and reducing soil compaction, as well as fuel and labor expenses.

The 4200 comes in six sizes from 11 feet 10 inches to 34 feet 1 inch. It is available in six configurations — two rigid and four folding. All models transport at 15 feet 11 inches or less, one of the narrowest transport widths on combination secondary tillage machines in the industry, according to Kurt Schenck, Case product manager-implements.

Regardless of size, the 4200 features a minimum 40-inch "settling zone" between the disc gang and the first cultivator rank that allows the soil to settle before herbicide application and eliminates the need for shields at recommended operating speeds.

The basic machine consists of one row of disc blades with a four-rank field cultivator. Massive mainframe components of welded rectangular tubing allow the 4200 to withstand the faster working speeds customary with today's high-horsepower tractors.

Mechanical depth control of the gangs is easily adjusted from 2 inches below to 5.5 inches above the sweep point. This gives operators the option of raising gangs to control the retention of surface residue or to use the 4200 as a field cultivator — an option, Schenck noted, that is often not offered by other manufacturers.

Pre-assembled, spring-cushioned gangs are set at 10-degree angles and work in conjunction with the 20-inch Earth Metal®, crimped-center disc blades for aggressive cutting action to create a smoother seedbed. The spring-cushion assembly on each gang

prolongs the life of the entire gang by "springing" over obstacles in the field. Independent spring-cushioning gives customers the option of installing hydraulic depth control without affecting the machine's cushioning ability.

Shank spacing is set at 6.7 inches with 7.5-inch sweeps for optimum soil preparation and chemical incorporation.

The standard self-leveling hitch assures consistent depth control from the front to the rear of the 4200 and is adjusted with the hand crank provided. Walking beam

axles that promote even stirring depth are also standard on the main frames and wings of all models except the 4221, which is equipped with single-axle wing wheels.

Six leveling attachments are available: three-bar adjustable coil tine harrow, five-bar adjustable spike harrow, single-bar peg harrow, double rolling basket, Bervac harrow, and Fuerst harrow. The unit can be ordered without a leveling attachment so it can be retrofitted regionally.



As the name implies, the Case International 4200 Combo-Mulch Finisher combines mulching and finishing into one operation to provide significant savings in time, fuel, and labor. It comes in six sizes and six configurations, all of which transport at 15 feet 11 inches or less.

## Longwood Fellowships Announced

NEWARK, Del. — The University of Delaware's Longwood Graduate Program in Public Horticulture Administration has awarded five fellowships for 1993.

Ellen S. Bennett, Carl Haefner, Patrick Larkin, Elayna Singer, and Barbara Skye will receive tuition and a stipend while they pursue their master's degree.

The Longwood Graduate Program trains professional managers and leaders in public horticulture for careers in garden management, curatorship, education, and design. The program is a cooperative effort between the university's College of Agricultural Sciences and Longwood Gardens, an internationally renowned public garden in Kennett Square, Pa.

Bennett, a native of Alexandria, Va., graduated from Virginia Polytechnic Institute and State University (VPI) with degrees in biology and horticulture. While attending VPI, Bennett was the horticulture extension technician in the office of consumer horticulture. She is interested in the psychological benefits that plants

hold for humans.

Haefner of Oyster Bay, N.Y., was an education intern and grounds maintenance intern at Planting Fields Arboretum. He holds a degree in horticulture from Cornell University, where he was named the 1992 Outstanding Senior Undergraduate in Horticulture by the American Society for Horticultural Science. His interests include visitor education, continuing education and community outreach.

Larkin has a degree in horticulture with a minor in psychology from VPI, where he served as

arboretum manager while still a student. A native of Lynchburg, Va., Larkin was a horticulturist and landscape designer for a landscaping firm there before entering the Longwood Program.

Singer, who is from the Chicago area, received a degree in cultural anthropology with a minor in elementary education from the University of Wisconsin. She was an education intern at both the Scott Arboretum of Swarthmore College and the University of Pennsylvania's Morris Arboretum. Singer is interested in plants with ornamental winter characteristics and in the use of native and edible

plants.

Skye, a Carthage, N.Y., native, has a degree in landscape architecture from the College of Environmental Science and Forestry at State University of New York in Syracuse. She was the environmental marketing consultant for Woodward-Clyde Consultants in Plymouth Meeting, Pa. Skye also has worked as an estate gardener/drafter for the National Trust property at Tintinhull House in England and as a landscape designer in Vermont. Her interests are plant exploration and ethnobotany.

## Bull Test Program Begins

UNIVERSITY PARK (Centre Co.) — A total of 75 bulls arrived at the Pennsylvania Department of Agriculture's Meat Animal Evaluation Center recently as part of the center's 21st annual bull testing program.

This group of bulls, born from January 1 to April 15, 1993, will be given a 21-day adjustment period, and then weighed onto official test. The animals will be

weighed again every 28 days throughout the 112-day testing period. The bulls are all on pinpointer feeders to calculate individual feed efficiencies in addition to average daily gain and lifetime weight per day of age.

At the end of the test, all bulls must pass a comprehensive breeding soundness exam and a structural correctness evaluation. They also will be scanned ultrasonically

to determine backfat thickness and loin eye area. Adjusted yearling weights will be calculated, and expected progeny differences (EPDs) made available for the bulls selected for sale in Pennsylvania's 21st Performance-tested Bull Sale. This sale is scheduled for Friday, March 25, 1994, at the Ag Arena at Penn State's University Park Campus.

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