

## Check For Mites

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Jersey.

Early season reports this year from crop consultants and extension agents indicate that the winter of 2003 has not had any detrimental affect on the over-wintering adults and that eggs have already been laid and hatched. Timothy hay producers are urged to check all stands of timothy for symptoms of infestations and to be prepared to apply proper control materials in a timely manner.

### Biology

Unlike most crop pests, the cereal rust mite prefers colder

conditions to summer weather. The mites over-winter in the crown area of timothy plants as adults and eggs. Maryland has recorded breeding activity as early as January.

Each female can lay 20 to 30 eggs that rapidly reach maturity in 16-18 days. As a result, populations can rapidly increase.

Eggs and young larva are found on the higher leaves. Adults move down into the plant crown where they prefer to feed on the youngest growth. As the mites mature they will move out and then "stand up" on their tails and are dispersed by winds. The mites have such a great pref-

erence for timothy that if they land on a different species of plant, they will stand up and move again.

By mid-April, mite populations are rapidly building. By May, signs of heavy feeding can be noted by looking for the curled or drought characteristic. When summer temperatures arrive, the mite enters a dormancy period and is rarely observed on regrowth.

### Scouting

Growers of timothy should begin to monitor their stands of timothy for this pest. Scouting procedures have not been fully developed, but producers can collect representative samples from across their field. Hand lenses are avail-

able from most camera stores or mail order catalogs. A minimum of 20-power is recommended. Look for the mite on the surface side of the leaf. Immature and adult mites are similar in shape, like a "rice kernel." Eggs can be seen in many cases. The egg resembles an extremely small, round ball and will be evident across the leaf surface. Most mites and eggs will be seen in between the veins on the leaf.

Remember that because of population dynamics, a few mites can rapidly develop into an economic problem. If you do not have access to a hand lens, look for curled leaves.

### Identification

The cereal rust mite is an

extremely small pest, actually one-sixteenth the size of a spider mite. You cannot observe them without a magnifying lens. The mites are shaped like a grain of rice, soft bodied, with four legs located near the head of this critter. They can move fairly easily up and down the leaves of the timothy plant but they prefer to feed on the youngest tissue of the plant. They are not commonly found on other grass species.

The cereal rust mite feeds on single cells at the base of the grooves between the veins on the timothy leaves. The mite inserts a "needle-like"

(Turn to Page E27)

# QUALITY RHINO EQUIPMENT IN STOCK AT BINKLEY & HURST BROS. INC.

## 3 Pt. Rotary Tillers, All Types of Mowers



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**BROADCASTER SPREADER**  
Poly Hopper with Stainless Steel Bottom



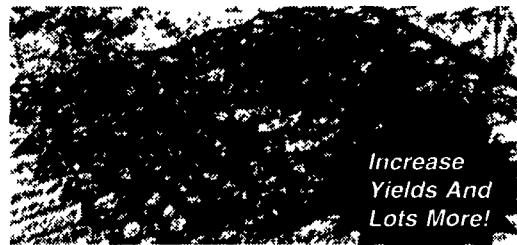
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Salt-Fertilize - Seeding

- All models feature a stirring agitator as standard equipment
- Our steel hopper and tubular frame are designed for long life
- Optional plastic hopper for corrosion resistance
- Three spreading patterns to select from. Simple to operate levers are used to obtain an accurate and uniform spread in the desired direction
- Spreading discs with four adjustable vanes are used to assure maximum efficiency and uniform spread for different types of fertilizer and seeds
- Heavy-duty gearbox that has an oil-pressed steel housing and 11 gear ratio

Model	1200
Hopper Capacity (Approx.)	
Bushels	12.7
Cubic Feet	16
Hopper Style	Plastic
Spreading Width	
Powdered	16' 5" - 26' 4"
Granular	39' 6" - 52' 8"
Spreading Speed	2 to 9 MPH
Maximum Load Capacity	1100 lbs
Unit Weight (lbs)	115
Minimum PTO Power	8 - 10 HP

### Binkley & Hurst Bros. Inc Offers This Low Cost Harrow Fueust Flex-i-ble Tine Harrow

Aerates and scarifies to stimulate growth, improve moisture penetration. Breaks up manure to speed decomposition, reduce parasites. Works in seeds after reseeding. Maintains rings and tracks. 4 to 42 ft widths. Adjustable penetration. Low maintenance.



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**HERBICIDE INCORPORATION:** Independent research using black light photography proves the Fuerst Harrow behind your disk or cultivator gives you "near perfect" incorporation in one pass - better than implements costing several times more! Shreds trash as it prepares & levels seedbeds.

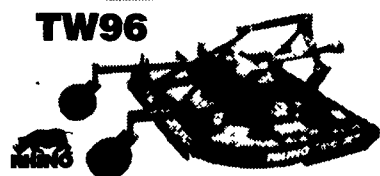
**BROADCASTING SMALL GRAINS AND GRASSES:** University of Illinois found overseeding by broadcasting followed by a Fuerst Harrow a superior combination, out-performing equipment costing more than 10 times as much. Pulled behind the broadcaster, it covers seed to desired depth in one time-saving operation

**SHREDS STALKS:** Shreds and spreads stalks in spring ahead of no-till and ridge-till planting.

4 to 42 ft widths. Flexes to cover every inch at 6-8 mph. No maintenance. Easy to use and store. Insist on the original "Spreading Action" ® tines.

**SIZES IN STOCK: 8' AND 12'**  
**ASK FOR AMOS SR!**

### TW96



Medium-Duty Cutter with Heavy-Duty Features!

96" Cut; 120 HP Center Gearbox, 90 HP Outboard Gearboxes, Pan Blade Carriers; Updraft Blades; Cat 4 Driveline; Slip Clutch Protection, Lift or Pull-Type; 540 or 1000 RPM; Replaceable Skid Shoes; Rated for 2" Diameter Material, Safety Deflectors Standard.



### TW120

The TW120 cuts a 120" swath of material. The center gearbox, rated at 120 HP, transfers power to the 100 HP outboard gearboxes. Torque dampeners on both sides of the center gearbox help prevent driveline and gearbox damage caused from sudden shockloads. Massive 2-3/8" diameter output shafts in the outboard gearboxes help provide optimum service. The pull-type and semi-mount units require a 50 HP (min) tractor and the lift-type unit requires a 60 HP (min) tractor (with adequate front weights)

TW120 - 10' Cut • TW84 - 7' Cut

### SE15



Rhino Batwing Cutter With 180 HP Gear Boxes

Heavy-Duty Features!

15' Cut, 540 or 1000 RPM, Cat 5 Main Driveline, Cat 4 or 5 Wing Drivelines, Pan Blade Carriers, 6' Blade Overlap, Mechanical Level-Lift Axle, 10-Gauge Deck, 1/4"x10-1/2" Side Skirts, Full Swivel Clevis Hitch, Replaceable Skid Shoes, Wing Operation 90° Up and 22° Down, Rated for 2" Diameter Material Fully-Shielded Drivelines, Safety Deflectors Standard 15 Foot and 20 Foot Models In Stock. Also FL15 Model to Cut 4" Diameter Material



### CY72

Extra Tough Cutter for Extra Tough Cutting Jobs!

72" Cut, 540 or 1000 RPM, CAT II Heavy-Duty Three-Point Hitch, 140 HP "Rhino-Built" Gearbox (1000 RPM), Cat 4 Shielded Driveline, Slip Clutch Protection, Heavy-Duty Pan Blade Carrier, 3/16" Deck, 1/4"x9" Side Skirts, 1/2"x4" Updraft or Flat Blades, Rated for 4" Diameter Material, Safety Deflectors Standard

6 Foot Cut



### SE's

Tough and Economical Family of Cutters!

5', 6' and 7' Models, 540 RPM, Shear Bolt or Slip Clutch Protection, Pan Blade Carriers, Updraft Blades, CAT I Three-Point Hitch, CAT II Three-Point Hitch (SE7), Rated for 1" Diameter Material, Safety Deflectors Standard

5, 6, 7 and 8 Foot

### UNIVERSAL QUICK ATTACH SKID LOADER MOWER SM60



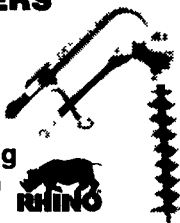
The SM60 skid steer mower from Servis-Rhino® and your skid steer loader can tackle a range of industrial, commercial, and agricultural mowing jobs

Cutting Width: 60"

The skid steer loader must be equipped with an operator front protective door. Contact your skid steer manufacturer or an authorized dealer for equipping your loader with a protective door.

### QUALITY 3 PT. POST HOLE DIGGERS w/AUGERS

Double Flighting and Slip Clutch with 9" Auger



### SE8 In Stock



The Rhino® SE8 is an economical rotary mower designed to help maintain larger acreages of grass, weeds, stalks, or material up to 1" in diameter.

The streamlined, close-coupled design allows economical operation on tractors as small as 30 horsepower on the SE8. The 85 HP center gearbox and 60 HP outboard gearboxes are protected from sudden shockloads by a slip clutch on the main driveline and torque dampeners on the side driveshafts. Pan blade carriers help the unit glide over field obstacles and updraft blades with a 4" blade overlap provide a clean cut

### SR15



Rhino Batwing Cutter With 180 HP Gear Boxes

Heavy-Duty Features!

15' Cut; 540 or 1000 RPM, Cat 5 Main Driveline, Cat 4 or 5 Wing Drivelines, Pan Blade Carriers, 6' Blade Overlap; Mechanical Level-Lift Axle, 10-Gauge Deck, 1/4"x10-1/2" Side Skirts, Full Swivel Clevis Hitch, Replaceable Skid Shoes, Wing Operation 90° Up and 22° Down; Rated for 2" Diameter Material Fully-Shielded Drivelines, Safety Deflectors Standard 15 Foot Models In Stock

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Narrow Transport Width. The 2160 can be folded into a transport width of 113" for easier travel on roads and through gates. Replaceable, full-length skid shoes are standard to help prevent wear to the deck main-frame. The 3/16" pan blade carrier is reinforced with a 3/4" steel plate in the bottom of the pan for added strength and momentum. The deck side skirts are 1/4" x 9-1/4" to handle large volumes of material. Front and rear rubber safety deflectors are standard equipment

Servis® 1948 Hydraulic Boom Flail Cutters are designed for mowing grass and cutting brush in hard-to-reach areas including roadsides, ditchbanks, ponds, and fence rows. Large model with up to 18'8" horizontal reach and up to 4" diameter brush cutting

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Providing the Best  
In Quality and  
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Sizes In Stock: ST 55", ST 63", SM 61" SM 70", SM 81", SH 90"

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