PRODUCTS

New granular battles mole crickets, white grubs

Chipco 5G insecticide effectively battles mole crickets and white grubs, Rhone-Poulenc says.

The 5 percent granular product was recently registered for control of the pests and other sub-surface turfgrass bugs on home lawns and commercial turf such as golf courses and sod farms.

The product is also registered for control of chinch bugs, black turfgrass ataenius beetles, bluegrass billbugs, sod webworms and nematodes.

To control mole crickets, apply at the rate of 4.5 lbs. per 1000 sq. ft. or 200 lbs. per acre. Irrigate immediately after application to increase safety and efficacy.

For white grub control, apply at the rate of 2.25 lbs. per 1000 sq. ft. or 100 lbs. per acre. Irrigate immediately afterward.

Circle No. 201 on Reader Inquiry Card

Hybrid flower shrubs hardy and are easy to maintain

The Meidiland family of hybrid

flowering shrubs is especially bred for color, texture, hardiness and low maintenance.

The Conard-Pyle Co.'s new family of hybrid flower shrubs is now available in five varieties, consisting of three hedge types and two ground covers.

The Pink Meidiland, Bonica and Ferdy provide upright growth that is well suited for hedges or barriers, masses for color and texture and as free standing plants.

The groundcover varieties are the White and Scarlet Meidiland, which provide a dense carpet of foliage and blooms that cover slopes and banks well, says Conard-Pyle.

Circle No. 202 on Reader Inquiry Card

Aerator goes the extra foot

The Olathe Model 71 Deep Shatter Aerator is designed for heavilycompacted, high traffic areas. It is useful in loosening compaction below levels reached by conventional coring machines.

Vibrations have been recorded down to one foot below the surface, at a blade depth of 41/2 inches. Other features include PTO-powered, ratchet PTO shaft for drive line protection, 42 blades on seven inch centers, adjustable in 5/8 inches from 41/2 inches deep to one inch positive. Seeder and dragmat are optional.



Circle No. 203 on Reader Inquiry Card

Hand-held blower has many features

Maruyama's new commercial handheld blower moves 400 cu. ft. per minute at 140 mph. The 21.2 cc engine, built to commercial specifications, features a chrome cylinder and heavy duty ball bearings.

The primer-type carburetor and electronic ignition permit easy starting. The variable throttle also features high, medium and low settings so that the operator can set it to run without continually working the throttle itself.

Optional vacuum attachments are available, making this a versatile blower/vac.

Circle No. 204 on Reader Inquiry Card

Wheel loader has operator in mind

The new JI Case Model 621 wheel loader was designed with the operator in mind, the company says. Two of the features designed into it are a 359 cu. in. turbocharged engine and an operator compartment with a four-level systems monitor.

The 621 has working speeds of 4.1 and 7.4 mph and a maximum road speed of 23.9 mph. A simple twist-grip lever gives the operator precise control of speed, power and direction. Its heavy duty loader arms provide a breakout force of almost 25,000 lbs. when equipped with a 2.25 cu. yd. bucket. It's Z-bar loader linkage increases performance and component durability, the company notes.

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Circle No. 132 on Reader Inquiry Card



The Model 621 lifts more than 10,000 lbs. to full height, and has a dump clearance of 9 ft. 4 in.

Circle No. 205 on Reader Inquiry Card

Hydraulic reel mower has 3 cutting units

The Huxley TR84M hydraulic reel mower is equipped with three cutting units that give it a maximum working width of 2.13 meters.

The two forward units can be folded vertically for safe, convenient transport or to assist operation in confined areas.

Circle No. 206 on Reader Inquiry Card

Mower has 135-inch reach to each side

The Micro-Mower model MP135T is available for tractors from 19- to 30-inch horsepower. Reaching 135 inches horizontal either left or right side, the mower's cutting is controlled via electric/over hydraulic valve from tractor seat.

There is a choice of a 52-inch multipurpose or 44-inch finish flail cutting heads. In addition, a three-point hitch with mounting stabilizers is included.

Circle No. 207 on Reader Inquiry Card

Maxi System offers Flo-Manager feature

Rain Bird's Maxi System IV computer control system features the Flo-Manager. The Flo-Manager manages the water flow demand placed on the pumping system while maintaining flow rates throughout the course to be consistent with piping network capacities. Rain Bird says this results in a balance that lets the system operate consistently at maximum capacity and efficiency, while also staging pumps to eliminate shock, surge and overloading.

Circle No. 208 on Reader Inquiry Card

Fungicide gets EPA approval

Ciba-Geigy has obtained label approval for its Pace fungicide, which the company says provides superior control of Pythium blight and yellow tuft in all turfgrasses, and downy mildew in St. Augustinegrass.

Pace is packaged in water-soluble

bags and sold in GreenPaks. Each GreenPak contains two one-pound bags, enough to treat a 5,000 square-foot golf green. The recommended rate is 6.3 oz. per 1,000 sq. ft. in three to



five gallons of water.

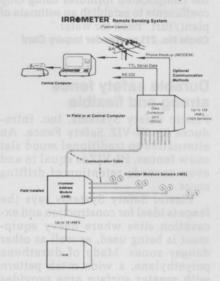
The water soluble packets dissolve within three minutes.

Circle No. 209 on Reader Inquiry Card

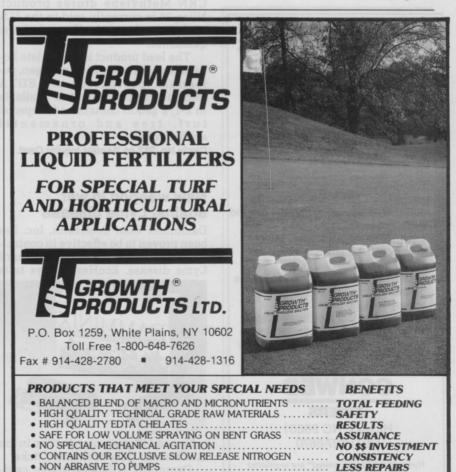
Remote sensing system helps save water

The Irrometer Co. of Riverside, Calif., now markets its new generation of soil moisture sensing equipment. Irrometer says the Remote Sensing System utilizes the true tensiometric method of soil moisture measurement which has been the industry standard for more than 60 years.

From a central location, the system



reports on demand the soil moisture status at various locations throughout continued on page 90



CAN BE MIXED AND SPRAYED WITH FUNGICIDES

SAVES TIME

the landscape or golf course.

An added feature is information on problem "locations" which are being severely under-irrigated and causing the Irrometers to break suction due to irrigation problems.

It also eliminates the inaccuracies of weather-based estimates of ET and the complicated formulas using crop coefficients to establish an estimate of plant/turf "need for water."

Circle No. 211 on Reader Inquiry Card

Durable safety fence strong and flexible

Plastic Safety Systems, Inc. introduces its HI-VIZ Safety Fence. An alternative to traditional wood slat snow fences, HI-VIZ is equal to and even exceeds retention of drifting snow.

Plastic Safety Systems says the fence is ideal for construction and excavation sites where heavy equipment is being used, as well as other danger zones. Made of durethene polyethylene, a wide mesh pattern with greater surface area provides high visibility.

The HI-VIZ fence is acid and salt resistant. Available in 100 foot rolls.

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Circle No. 212 on Reader Inquiry Card

Growth Products line expands in 1989

Growth Products of White Plains, N.Y. has expanded its professional liquid slow-release fertilizer line. Four new products are available in addition to the exclusive Nitro-26 CRN Methylene diurea product. Nitro-26 is currently sold in the U.S. and Canada in bulk and drum quantities.

The lead product is a complete liquid blend of slow release nitrogen, potassium, phosphorus and EDTA micronutrients. Product is available in 2-1/2 gallon containers for special turf, tree and ornamental applications.

Circle No. 213 on Reader Inquiry Card.

New weapon in war against Lyme disease

Damminix from EcoHealth, Inc. has been proven to be effective in controlling the deer tick, the main carrier of Lyme disease. EcoHealth says tests



achieved a 97 percent reduction in the incidence of ticks or infected ticks.

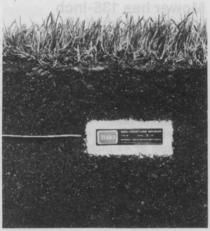
Damminix is biodegradable cardboard tubes filled with cotton balls that have been soaked in permethrin, a mild insecticide. The tubes are placed in a grid pattern in the affected area in the spring and late summer. Mice gather the cotton balls for nesting material. In the nest, the treated cotton kills the ticks feeding on the

Circle No. 214 on Reader Inquiry Card

Moisture sensing system cuts water consumption

Toro's Irrigation Division says its new Soil Moisture Control System effectively reduces irrigation water consumption by an average 50 percent while maintaining excellent turf quality.

The system is designed to tell the irrigation controller when to stop irrigating rather than when to start. A



Cuming-type 4-EC ceramic soil sensor is completely inert, self-compensating, permanently calibrated and maintenance free. The sensor is manufactured to dehydrate at a preset tension level close to the soil's moisture capacity.. This changes the sensor's output, which sends a signal to the irrigation controller when the soil is moist enough.

Circle No. 215 on Reader Inquiry Card

Hustler 275 cuts down tall, wet grass

The Hustler 275 from Excel features a 23-hp, air-cooled Kohler engine. The fully pressurized lubrication system ensures continuous protection of critical engine parts for long service life. Improvements include new Ross ME high-torque motors with 13/8 shaft and an improved bearing for longer wear. A 10 micron filter replaces the 25 micron filter on the hydraulic system for even better protection of the drive

The 275 utilizes the Dual-Path hy-

drostatic drive system and one hand hydraulic steering that provides total control of speed, forward and reverse, braking and turns without the use of clutch or brake pedals. Twin lever steering allows 360-degree turns without scuffing the turf.



Circle No. 216 on Reader Inquiry Card

Park equipment out in new catalogue

Natural Structures, builders of park equipment and site furnishings, has issued its new catalogue for 1989. Featured are the new "High Tech Look" of beautiful and bright colors in durable round or square steel post modular play systems.

Also featured are a wide selection of independent play components,

climbers, outdoor fitness centers, courses and recreation courts.

Circle No. 217 on Reader Inquiry Card

Bale chopper delivers fast, efficient mulching

The Agrimetal Landscape King bale chopper is powered by a rugged 11-hp Honda OHV engine. It quickly and uniformly chops mulch, which is distributed by a powerful blower. A flexible hose allows precise placement of mulch. Chops and blows a bale in less than one minute.



Circle No. 218 on Reader Inquiry Card

Exmark intermediates powered by Kawasakis

Exmark Manufacturing Company, Inc. now offers a 14-hp Kawasaki engine on its 48" and 36" commercial



mowers. The four-stroke, air-cooled, overhead valve engine with recoil starter features full-pressure lubrication for consistent operation, even with extended mowing on slopes and hills. An optional oil filter kit keeps engine oil cleaner.

Circle No. 219 on Reader Inquiry Card

Security is yours with Customline gates

Customline, Inc. manufactures security gates and fences for light industrial, commercial or residential use. Each piece is factory tested, and guaranteed against defective materials and workmanship. The V-series offers heavy duty electric locks for swinging or sliding gates, or with ground level wheels fabricated from solid steel.



Circle No. 220 on Reader Inquiry Card

Be creative with retaining walls from Keystone

The Keystone Retaining Wall Systems combine proven soil stabilization technology of geogrids as an integral part of its design.

Based in Minnesota, the company has licensed manufacturers in 48 major metropolitan areas who provide the product throughout the United States and Eastern Canada.

According to Keystone, the sys-

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Circle No. 106 on Reader Inquiry Card

tems are considered by landscape design engineers to be the premier retaining wall product offering unlimited design characteristics, structural integrity, ease of installation, durability, economy, and a curval lineal, split face, natural appearing product.

Circle No. 221 on Reader Inquiry Card

Walk greensmower brand new from Toro

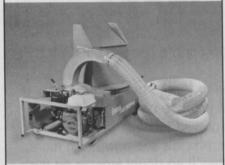
Toro reports that its new walk greensmower features the smallest clip of any walk greensmower on the market, allowing for a more uniform cut.

The Greensmaster 1000 clips as small as .16 inch, thanks to its 11-blade design. The mower is also designed with a loop handle for operator comfort and proper weight distribution.

The Greensmaster is powered by a 3 1/2-hp Kawasaki engine, and the drive system features the latest cog belt design, which reduces service time.

Cutting height can be adjusted to tournament height, ³/₃₂ inches. A grooming reel attachment and variety of rollers are available.

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Circle No. 122 on Reader Inquiry Card



Circle No. 222 on Reader Inquiry Card

Grooming mower stands up to grass

The new Land Pride Air Tunnel Grooming Mower combines superb mowing quality, structural strength and operator convenience. The Air Tunnel system lifts grass for superior clipping and discharge. Heavy duty high speed blades turn at 15,000 square feet per minute for aggressive cutting. Four-wheel design, floating



hitches and swivelling top-link follow terrain evenly. Ground wheel options include two wheels and front roller, two ground wheels only and four ground wheels for "the best in contour mowing."

Land Pride says the unit's welded tubular steel chassis absorbs the shock of severe mowing conditions. A single, durable continuous belt drives all three austempered blades. A clevis hitch makes for easy hookup, while in-and-out hitch blocks allow the mower to stay close to the tractor.

Circle No. 223 on Reader Inquiry Card

Turf brush for better dressing

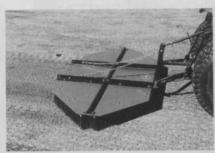
Gandy's Sweep Master turf brush is a newly designed tool for improved top dressing incorporation and more ef-

fective surface maintenance on golf courses and athletic fields.

The unit measures 40" x 78" and includes eight individual brushes set in a double diamond pattern. The upper framework is made of 11-guage steel with 3/8" angle crossmembers.

Gandy says the Sweepmaster is designed to give improved blending of soil amendments and reduce chatter or jumping during its sweeping actions, leaving a clean appearance on greens, tees, clay tennis courts, sand areas and athletic fields.

The basic brush unit may be ordered alone for suspension under utility tractors, or with optional 3-point hitch or trailer wheels. The trailer version has wheels which flip up to



rest on the upper framework and make it handy to move during storage.

Circle No. 224 on Reader Inquiry Card

Self-propelled seeder

The new Brouwer Seeder/Overseeder is a self-propelled unit for seeding, overseeding and fertilizing. The optional fertilizer hopper and overseeder attachments are easily attached. The unit is powered by a Honda 5-hp engine with a heavy duty chain and gear drive for excellent traction in a variety of conditions.

Gear driven, contra-rotating blades and guides place the seed precisely, in adjustable depth slits that are 1 ½



inches apart. Offset wheels then cover the seed for the best possible germination conditions. The operating width is 22 inches and the seed flow is calibrated for efficient distribution.

Circle No. 225 on Reader Inquiry Card

Portable pump runs on a Briggs/Stratton

The Otterbine floating, portable pump is now available with the 8-hp, 4-cycle Briggs & Stratton I/C engine. The engine has a five-year warranty, and is equipped with an extra-capacity dual element air cleaner, commercial quality ball bearings, cast iron sleeves and Cobalite exhaust valves and coate

Warranty on the engine's Magnetron electronic ignition is five years. The pump delivers up to 410 GPM. It's self-priming, can run dry safely, and operates in three inches of water.



Circle No. 226 on Reader Inquiry Card

One good turner carries it weight

Agrotec tracking wagons are available in three sizes, each equipped with front and rear axle steering which allows for sharper, tighter turns to eliminate cut off corners and damaged



plants and containers. The frame is made of heavy guage steel, steam cleaned, primed and painted with high gloss green enamel paint. Four bolt cast iron hubs and large terra tires also allow for much larger loads than other standard tracking wagons.

Circle No. 227 on Reader Inquiry Card

Kubota's newest tractor equipped with Glideshift

Kubota Tractor Corporation's L2850 utilizes a Glideshift transmission for easy no-clutch shifting through eight forward and reverse speeds. Engine and clutch stress is reduced, and operator fatigue is minimized.

The 4-wheel drive tractor is



powered by a four-cylinder, liquidcooled diesel engine with 27 PTO horsepower and 34 gross horsepower. Circle No. 228 on Reader Inquiry Card

Quick-change tractor becomes turf mower

The John Deere 86-inch reel mounted mower package turns a compact tractor into a turf mower. It includes three 30-inch hydraulically-driven mowers that can be attached to a John Deere model 755 or 855 compact utility tractor.



For other jobs, the rear sub-frame can be removed in minutes to expose a rear PTO and drawbar. The hydraulic reel drive pump is powered by the tractor's mid-PTO. Reels turn at about 940 rpm for a consistent cut. Reels are raised and lowered by the tractor's open center hydraulic system. Both tractors are powered by a 3cylinder diesel engine. The 20-hp 755 delivers 15-hp at the PTO; the 24-hp 855 delivers 19 hp at the PTO.

Circle No. 229 on Reader Inquiry Card

New riding mowers for heavy duty use

Ransomes, Inc. has introduced a new line of commercial riding mowers for heavy-use applications. Designated as the Jaguar 4000 line, Ransomes believes the four mowers incorporate the best in rotary mowing technology. The Jaguar 4000 has mowing decks of 61" or 74". The larger deck has a unique, deep-draft design which helps assure that all clippings are discharged out the chute, minimizing unsightly clumps.

A single-pedal hydrostatic control is standard on the units. The low effort foot pedal controls all forward and reverse movement and eliminates the need for cruise control. An automatic differential lock provides drive wheels with steady pulling power on the straightaway, while reducing the torque on the inside wheel during turning.

Mitsubishi and Onan engines are available.



Circle No. 230 on Reader Inquiry Card

ZTR mower with Unistat direct drive

A heavy duty zero turning radius mower called the Commercial Clipper is new from Shivvers Incorporated of Corydon, Iowa. The mower features the Unistat direct drive hydrostat on each power wheel. All-inone direct drive hydraulic transmission increases reliability and efficiency. It is backed with a 4-year, 4,000-hour commercial service limited warranty.

Circle No. 231 on Reader Inquiry Card

New trimmer, brush cutter lightweight with options

The new Robin model NB351 grass trimmer/brush cutter is now available from Carswell Import & Marketing Associates. The straight shaft trimmer is built to professional and commercial standards and weighs only 15.8 lbs.

The new model features a 34.4 cc (1.8 hp) high performance Robin-built engine and an anti-vibration drive shaft with a 14:17 gear ratio. Standard equipment includes the dual-feed nylon cord trimmer head that cuts a 16-inch swath, a 10-inch saw blade, blade guard, tool kit, quick-release shoulder harness and instruction manual.

Optional accessories include 10inch eddy blade, 10-inch star blade and safety blade.

Circle No. 232 on Reader Inquiry Card