

## PRODUCTS

### Mower equipped with three blades

A mid-mount mower, equipped with three blades capable of cutting a 60-inch path, is offered by Kubota Tractor Corp. Designed for use with two- and four-wheel drive B-8200



tractor, the mower features one front and two rear anti-scalp rollers and a pantograph linkage mechanism with four suspension points to insure smooth carriage. Cutting height to insure smooth carriage. Cutting height is adjustable at half-inch increments from 1.5 to 4 inches.

Circle No. 170 on Reader Inquiry Card

### Orthene cleared for Maryland use

Orthene Tree and Ornamental Spray has received a 24-C Special Local need registration in Maryland for control of Greenbug in turfgrass.

Orthene should be applied at a rate of one pound active ingredient per acre (1 1/2 acre formulated) or 1/2 ounce per 1,000 square feet, when greenbugs or their damage first appear. Application should be made with sufficient water to obtain good coverage (one to four gallons per 1,000 square feet). Turfgrass should not be mowed for at least 24 hours after application.

Circle No. 171 on Reader Inquiry Card

### Nozzle combats noise pollution

Spraco, Inc., of Nashua, NH, a manufacturer of a full-range of industrial spray nozzles, has introduced a new line of whisper blast-off nozzles. The Spraco-Lechler Whisper Blast Blow-Off Nozzle is a multi-channel, flat jet nozzle, which has been specially designed to attenuate noise, obtain intensive precise blowing power and minimize cost by reducing air consumption and noise levels. The units come with

either 1/4 inch NPT male thread or, alternatively, with steel extension tube and 5/16 inch OD hose nipple ready for clamping to any machine or machine tool.

A two-page flyer is available from Spraco giving detailed information.

Circle No. 172 on Reader Inquiry Card

### New Solo brushcutter joins Multimot program

SOLO Incorporated introduces a new straight shaft brushcutter, Model 109. The design incorporates all features required for commercial applications. The brushcutter 109 is part of the new



SOLO Multimot Program, a line of outdoor power equipment powered by a single 1 1/2-hp two-cycle engine manufactured by SOLO. No tools are needed to switch the engine to a number of different attachments. By activating a single lever, it is accomplished in seconds.

Standard features of the new brushcutter include a heavy duty straight steel drive shaft, bevel gear drive, AV handles, adjustable cushioned carrying strap and mowing head protection shield. A choice of heavy duty monofilament head, three-knife mowing blade and a circular saw blade are available. The brushcutter weighs only 10 pounds.

Circle No. 173 on Reader Inquiry Card

### Ditch Witch offers utility backhoe

Ditch Witch Model A620 utility backhoe mounts to the front of Model 6510

*Continued on page 88*

On June 25, 1876, George Armstrong Custer ignored his scouts' warnings of many Indians gathered at Little Big Horn. So he rode out with 250 men to "surround" 6,000 Indians. This was a serious error.



## Numbers can make all the difference.

It is always a serious error to ignore numbers or talk about them in vague terms. BPA (Business Publication Audit of Circulation, Inc.) guarantees the circulation figures of our member magazines — issue after issue. When you advertise in BPA-audited magazines, you get precise, nonpromotional numbers.

**BPA** We count, so your ads will.

This BPA-audited magazine donated the space for this ad, with creative and production costs contributed by BPA agency and advertiser members.



underground construction equipment. The unit digs to depths of 109 inches, has a 180 degree swing arc and reach of 154 inches. The rear of the vehicle can employ a tranching module, vibratory plow module or combination of both.

Circle No. 174 on Reader Inquiry Card

### Toro introduces pop-up sprinkler head

Toro Irrigation has introduced the new Super 600C 2-inch pop-up sprin-

kler head, designed to meet the heavy demands of commercial irrigation systems.

One of the new head's advantages is a built-in check valve that checks up to 10 feet of elevation, putting a stop to low-head drainage problems.

Three new nozzle sets (3.0, 6.0 and 9.0 GPM) allow for compatible precipitation rates on part-circle and full-circle sprinklers. Maximum radius of 52 feet covers large turf areas and reduces the number of sprinkler heads required. Radius adjustment, up to 25

## Cut the Cost of Soil Management...

No other product can give you the results and still cut soil management costs like PENE-TURF Soil Treatment. PENE-TURF costs only about \$8 an acre to apply...you can treat **twice** the acreage at less than **half** the cost of similar products!

And what results! Golf course superintendents and professional turf managers across the nation are finding that PENE-TURF improves aeration...helps establish better rooting...eliminates wet **and** dry spots...helps curb erosion...and so much more.

Find out for yourself...write or call today for **FREE** information about PENE-TURF...the **best** solution for soil management.

Dealerships available in some areas.  
Write or call today!



## ...use PENE-TURF.



FOUR STAR  
AGRICULTURAL  
SERVICES, INC.

110½ East Wabash St. • Bluffton, IN 46714 • (219) 824-5384

Circle No. 123 on Reader Inquiry Card



percent reduction, and adjustable arc part-circles, permit design and installation flexibility.

The Super 600C — heavy-duty version of Toro's field-proven Super 600 sprinkler — operates effectively even in sandy and dirty water. It has a small set screw for its locking cap, providing even greater vandal-resistance. Its sealed-in gear drive assembly assures smooth, quiet operation.

Circle No. 175 on Reader Inquiry Card

### Improves soil penetration

Sinak Co.'s Agridyne soil conditioner will enhance the abilities of fertilizers and herbicides by lowering the surface and sub-surface vicinal tension and neutralizing the interfacial tension of water to improve soil penetration. Agridyne is non-toxic, non-phytotoxic, non-caustic, non-flammable and biodegrades within three to six months

Continued on page 91



# ARM YOURSELF FOR THE BUSY MONTHS AHEAD

... with vital marketing data gathered by our experts in these proven research techniques:

- WATS Telephone
- Focus Groups
- Direct Mail
- Personal Interviews

We provide top quality in-house printing, mailing, tabulating, data processing, and analytical systems.

**Count on us for your special research needs.**

**Free cost estimates.**

**Infometrics**  
**National Research Center**  
 A SERVICE OF HARCOURT BRACE JOVANOVIĆ PUBLICATIONS  
 131 West First Street  
 Duluth, Minnesota 55802  
 Ph: (218) 727-8511

## PRODUCTS from page 88

after dilution with water. Available in 4 oz., 1 gallon, and 55 gallon drums, the natural pH surfactant has a dilution rate of 12,000 to 1 with water.  
 Circle No. 176 on Reader Inquiry Card

### Pole pruner has ratchet-cut action

American Standard Company has introduced the Florian pole pruner that has exclusive ratchet-cut action. Optional extenders to 14 feet permit reaching high branches. The pruner has exclusive Ratchet Cut action that does the hard work as the handles are opened and compressed by using a rope. The device comes with Teflon-coated hardened steel blades and a choice of wood or fiberglass handles.

Circle No. 177 on Reader Inquiry Card

### Mower provides convenient access

F. D. Kees' 21-inch mower, designed for commercial use, combines rear discharge with minimum deck width for convenient access to hard-to-reach places. Powered by a System 2, 4 hp engine, the mower is equipped with greasable double ball bearing



wheels. Cutting height adjustments are from 1 1/4 to 3 3/4-inches, and special Lo-tone muffler provides quiet operation.  
 Circle No. 178 on Reader Inquiry Card

### Co-molder wiper seal eliminates flow-by

Model 1806 six-inch pop-up sprinkler from Rain Bird Sprinkler Corp. clears ground covers, low scrubs and taller turf grass. The seal cleans the nozzle

*Continued on page 92*

## Scientific Guide To Pest Control Operations

by Dr. L.C. Truman  
 Dr. G.W. Bennett and  
 Dr. W.L. Butts



Domestic: \$32.50\* (hardcover)  
 Foreign \$37.50\* (hardcover)

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS is designed to provide a sound basis for studying the scientific aspects of pest control and promote technical competence. It places emphasis on urban and industrial pest problems. This volume also covers the laws and regulations concerning the pest control industry.

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS is written for owners, supervisors, servicemen, salesmen, students, persons preparing for state certification under the EPA/state programs for commercial pesticide applicators, and people interested in structural pest control.

The SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS - a *must* for anyone involved in the field of pest control!

Return this coupon to: Book Sales  
 Harcourt Brace Jovanovich Publications  
 One East First Street, Duluth, MN 55802  
 Domestic: \$32.50\* (hardcover)  
 Foreign \$37.50\* (hardcover)

YES! Please send me \_\_\_\_\_ copy(ies) of the SCIENTIFIC GUIDE TO PEST CONTROL OPERATIONS.

A check or money order for \_\_\_\_\_ is enclosed.  
 Please charge to my Visa, Master Card, or American Express (circle one)  
 Account Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

\*Please add \$3.00 per order plus \$1.00 per additional copy for postage and handling.

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Phone \_\_\_\_\_

WTT 43

Quantity rates available upon request.

Please allow 6-3 weeks for delivery

stem as it comes up, flushes debris away as it retracts, and keeps debris from entering unit at the nozzle/wiper seal interface. Flow-by is arrested at a low 8 psi, a filter screen is under the nozzle, and a full range of nozzle types are available.

Circle No. 179 on Reader Inquiry Card

### Skid steer loader for landscaping use

Convenience, power and comfort features are incorporated in the design of

the new 4510 skid steer loader according to the Gehl Company, West Bend, Wi.

The 4510 has been engineered so landscapers can make fast attachment changes without leaving the cab. The new Hydro-Lock feature allows use of loader hydraulics to switch from the dirt and rock teeth attachment to the utility bucket to the backhoe or to any other attachment in the versatile, full-line.

Designed to be up and away from dirt and debris, the tilt cylinders are in-



dustrially rated and self-leveling load action — a standard feature unique to Gehl skid loaders designed to keep loads even throughout the lift cycle. The 4510 is SAE-rated at 1150 pounds with the Ford industrial gas engine and at 1225 pounds with the Perkins diesel. Both engines are water cooled.

Maintenance and clean-up are made convenient in the 4510 with a swing-away grill, roll-back overhead guard and quick-clean engine compartment and cab.

Circle No. 180 on Reader Inquiry Card

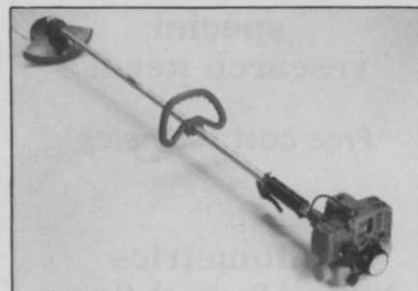
### UL approves Stihl chainsaws

Stihl chain saw models have been awarded approval status by Underwriters Laboratories of Northbrook, Ill. Any Stihl product designated as "Listed by Underwriters Laboratories, Inc.," meets the standards of that testing organization. UL approved packages can display the UL symbol on nameplates, packaging, advertising, sales promotion literature and point-of-sale materials.

Circle No. 181 on Reader Inquiry Card

### Tanaka markets new brushcutter

Tanaka has introduced a new brushcutter, model TBC-215. This 20cc solid shaft gear-driven unit is designed to fit



the needs of the professional landscape gardener.

Standard features include transistorized electronic ignition carrying a five-year warranty, safety blade guard, .095 nylon line, automatic feed head, a

*Continued on page 100*

← Circle No. 148 on Reader Inquiry Card

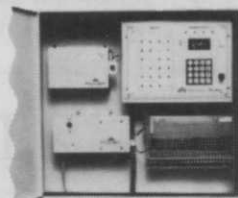
## The Wonderful World of Computers Brings Beauty to Irrigation

Model 39600



Controllers that "Talk" to you... and each other.

Model 39625



Model 39624



Program and Command with only one finger.

### You Gotta See it to Believe it

#### Video Central Controller

Standard typewriter keyboard with Question and Answer programming visible on the screen. Features: 6 separate schedules from 1 to 14 days, automatic independent syringe program, up to 12 irrigation start times per day, 99 irrigation groups for flexible valve control and manual independent valve control. Single finger programming.

#### Pedestal or Wall Mount Field Controllers

Can be installed indoors or outside and operated as a stand alone controller or with the central controller. Features: 24 stations of 4 modules of 6 stations each, all modules can be operated at once or at different times, any combination of modules can be used to give 6, 12, 18 or 24 station controller(s), 4 separate start times for each module, station time 0 to 59 minutes in one minute increments or 1 to 9 hours in one hour units and separate syringe timing override.

Wall or pedestal mount field controllers can be used as separate and independent controllers and the video central unit added later. Because these units "talk" to each other, programming can take place in the field or from the central location.

Built-in rechargeable batteries for program retention in case of power disruption.



**Royal Coach/Buckner®**

4381 N. Brawley, Fresno, CA 93711  
(209) 275-0500 TWX 910 362 1167

four-tooth blade and rubber isolated engine mount.  
Circle No. 182 on Reader Inquiry Card

**New sod exclusively for Southern California**

Southland Sod Farms announces a water-conserving turfgrass called Marathon Hybrid Tall Fescue.

Werner Gramckow, president and founder of Southland Sod Farms explains, "For years, the turf industry has sought to fill the need for an at-

tractive grass variety that can flourish in the hot, dry weather of Southern California.

"Toward this end, in 1981, we began testing a number of hybrid tall fescues to determine their suitability for this region. Limited test quantities were grown and installed in actual landscapes in Camarillo, Simi Valley, Chino, Lancaster, Sherman Oaks, Irvine, Anaheim, Newport Beach and San Diego.

"The results are now in and we are very excited to announce that a 100

percent pure hybrid tall fescue sod, which we named Marathon, is now available in large production quantities in Southern California. We believe that Marathon represents the most dramatic breakthrough the turf industry has seen in many years.

On the surface, Marathon looks similar to popular bluegrass varieties. But, the growers say, the difference in per-



formance between these two varieties is significant.

Because Southern California is really too hot during the summer for bluegrass mixes and too cool in the winter for bermudas, Marathon Hybrid Tall Fescue is a possible solution. Marathon stays green year-round without the rust disease found with blue grass varieties and it doesn't have winter dormancy or the thatch build-up problem of the Bermudas.

The manufacturer lists three characteristics that make Marathon superior to any other sod variety now available in Southern California:

- because of Southern California's limited water supply, it conserved water.
- its efficient root system draws moisture and nutrients up from up to six times the depth of shallow-rooted bluegrass varieties.

- Marathon is highly disease resistant, durable and heat resistant. It requires less fertilizer than other lawn varieties.

Marathon Sod is in full production at Southland Sod Farms located in Camarillo, CA. It is available now from Southern California nurseries and licensed landscape contractors.

Circle No. 183 on Reader Inquiry Card

Forecast:  
Peace  
of Mind  
Fertilizing

★ **EXTRA** ★

Forecast:  
Peace  
of Mind  
Fertilizing

Milorganite . . . America's Foremost Naturally Organic Fertilizer

**Naturally Organic Milorganite is more than just a simple source of nitrogen.**



**Agronomic Value vs Synthetics**

- No matter how hard scientists have tried, they have failed to match synthetic nitrogen to release with natural growth patterns.
- Granulation does make a difference . . . s-l-o-w nitrogen release does the job.
- Milorganite does offer some disease suppression properties.
- Milorganite does not burn and is almost impossible to over-apply.

**Fertilize Nature's Way With Milorganite.**

**It's a shame to call it just fertilizer.**



**MILWAUKEE METROPOLITAN SEWERAGE DISTRICT**  
735 N. Water Street  
Milwaukee, WI 53202

Circle No. 133 on Reader Inquiry Card