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lection of drought tolerant cultivars. Subirrigation uses the same amount of water as surface irrigation Kneebone pointed out. He also said use of moisture sensors in the soil can save up to 50% of water used for irrigation.

Dr. Bob Shearman of the University of Nebraska said heat stress in turfgrass can be reduced by increasing the cutting height, air movement over the turf, syringing, control of thatch accumulation, and less fertilization. By cutting the grass an inch higher surface temperatures are reduced four or more degrees.

Dr. James Beard of Texas A&M University told delegates that wind speed has a greater effect on ball roll than any management practice. Beard disputed whether double cutting greens increases roll. He recommended topdressing after coring, removal of dew on greens, selection of fast turfgrasses, and alternate mowing.

Dr. John Madison, professor emeritus of the University of California outlined the pro's and con's of sand topdressing. This procedure helps control thatch; provides a truer, faster put-

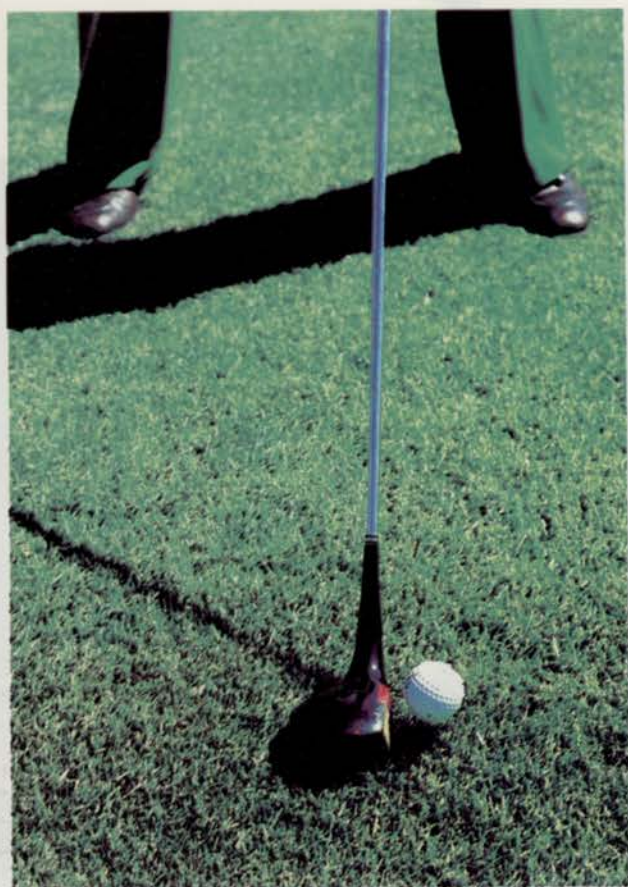
ting surface; and allows for deeper rooting. The drawbacks include application rates for chemicals must be carefully adjusted, handling of large volumes of sand, interface problems between soil and sand layers, and localized dry spots. Madison recommended frequent light applications of sand over fewer heavy applications. He said up to 50 applications per year may be necessary in some locations. The size of the sand particle is also critical.

Dr. Roy Goss of the Western Washington Extension Center showed delegates that material from the explosion of Mount St. Helens is very similar to present soils, lacking primarily organic matter. Goss said one cubic mile of material now coats more than 600,000 acres of land in the area. Trials have indicated that bentgrasses, fescues and ryegrasses will succeed on the ash with less success with bluegrasses.

Dr. Paul Rieke of Michigan State University compared wetting agents available to turf managers. He recommended irrigation prior and following application of wetting agents. **WTT**

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This unretouched photo from California demonstrates an advantage of including 20% Citation with an improved blend of bluegrasses. On the left is 100% Kentucky bluegrass damaged by Fusarium blight. On the right the Citation-bluegrass mixture shows little or no damage.



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Banvel



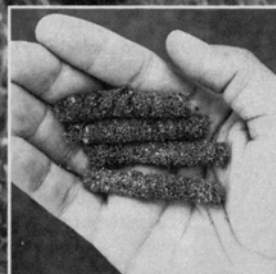
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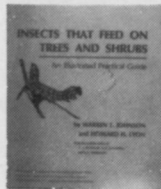
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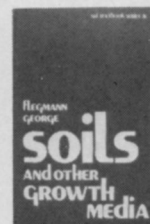
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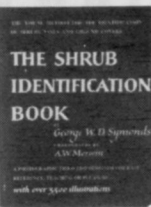
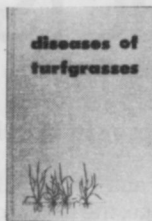
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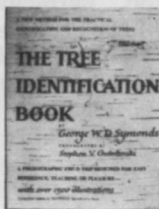


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Rubberized belting flaps inside the hopper minimize seepage around the conveyor belt when high-content sand is applied to fine turf areas. This feature is also effective when sand and salt are applied to icy sidewalks and driveways.

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A cost analyzer from Reinco called Pocket Pal® enables a seeding-mulching contractor to figure costs of material and labor quickly and accurately. Constructed of heavy duty vinyl and pocket-sized, the analyzer is water-proof and mar-proof and requires no wires or batteries. It figures jobs from 1,000 square feet to 10 acres or more in seconds.

Write No. 702 on reader service card

A system of nozzles and nozzle tubes, the Erocon super nozzle system from EROCON-Pacific uses the laminar flow principle to improve movement when applying water, or water-based slurries, for hydraulic-seeding and fire-fighting. The system changes violent turbulence created in the centrifugal pump to straight-line stream flow. It reduces friction further



with the smooth inside of its nozzle parts.

There are six nozzles and two nozzle tubes—one for long range, the other for mid range. Brass threads on the tubes eliminate potential nozzle blowout due to high pressures in the hydraulic-seeding process.

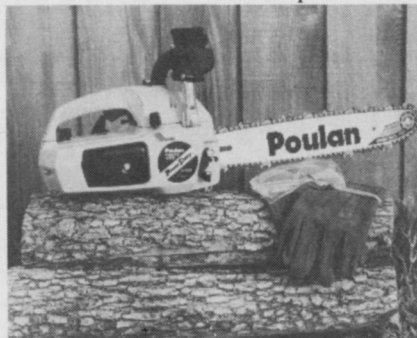
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A one-man operated herbicide sprayer called the Swinglok applies bareground herbicides under guard-rails, signs, and on shoulders; treats right-of-ways; and laces foliage with soil active herbicides to control brush. The Cibolo Manufacturing product attaches to the front bumper of the vehicle and uses various booms. Its spray swath consists of four 9-foot sections which allows for selective spraying up to 36 feet in the ROW.

Two models are available: model A, which will spray one herbicide solution in a single pass down the roadside, and Model BS, which allows the operator to spray two different herbicide solutions in separate operations either independently or simultaneously.

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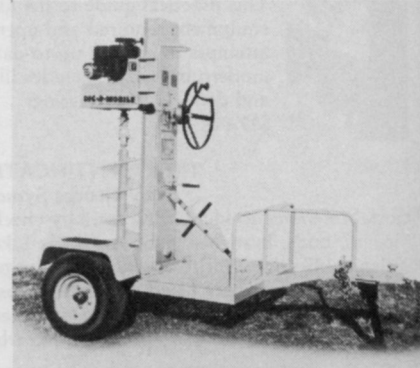


maintenance time to less than 25 seconds with a sharpening device on the moving chain. The Micro-25 16 inch is a lightweight saw with a bar and chain long enough to tackle most jobs. And the Micro-25-CVA, which is also available with a 16-inch bar, reduces vibration.

All three saws feature a "kickback-reducing" system for safety that includes a Control Tip bar, a hand guard, and a rear hand placed directly behind the forward hand for better control.

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The super nozzle system developed by Erocon-Pacific Corp. uses the laminar flow principle of movement to provide a significant improvement in the application of water-based slurries used for hydraulic seeding and fire fighting. This system modifies violent turbulence, created in the centrifugal pump, to straight-line stream flow as it leaves the nozzle tip.

It consists of two nozzle tubes and six different nozzles. The chemical resistant tubes are designed, one for long range and the other for mid range. Brass threads on the tubes eliminate potential nozzle blow-out due to the high pressures used in the hydraulic seeding process. Different combinations of nozzles and tubes provide smoother application of water slurries at different distances. System is available for new equipment or as replacement for present nozzles.

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A componentized power train is featured on JCB 3C and 3D backhoe loaders. Designed for easy access to major drive train components, the new

Continues on page 100

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University tests suggest that although water-soluble nitrogens may be cheaper on a pound-for-pound basis, it may be more economical to use slow release nitrogen products on turf because of leaching or volatilization of the water-solubles.

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MARCH 1981/WEEDS TREES & TURF 99



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Products from page 98



train reduces repair time and cost. A heavy duty industrial torque converter provides smooth operation. The reversing shuttle means instant forward/reverse direction changes for fast backfilling and loading.

This model's transmission disconnect provides on-the-go shifting capabilities, which reduces travel time to the job site and improves loading performance. It can be used also as an inching pedal when loading trucks.

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Write No. 709 on reader service card

Stoller Chemical has just received EPA clearance for a 4-pound flowable Maneb formulation. Label recommendations include control of most diseases of ornamentals, turf, and grasses. Low rates give effective control under severe disease conditions. It mixes readily and is compatible with most insecticides, including spray oils.

Other advantages of Maneb include activity against a wide range of fungal organisms, protection of emerging seedlings from fungal blights, and prevention of rot and decay of stems and foliage.

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Continues on page 102

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