we've got the bases covered

Tractors. And speaking of the 55 Series, there's a new member in this family, too. The 33-horsepower 955. This new hydrostatic model comes with all the same features that made our 55 Series a big success. Plus one more feature you've been asking for. More power.

See the full line of John Deere tractors soon. Or write John Deere, Dept. 67, Moline, IL 61265. After you see them we think you'll agree, when it comes to compact tractors, we've got the bases covered.

Nothing Runs Like a Deere

New 70 Series operator's station features a roomy platform for an uncluttered working area.
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ABOUT HYDRO-MULCHING

Bowie Industries invented the Hydro-Mulcher®. And whether you specialize in large or small projects, Bowie makes a Hydro-Mulcher that will save you money. The Bowie Victor 800 is ideal for lawn and landscape jobs.

Like all our equipment, the Victor 800 is built Bowie tough for long, trouble-free service. Its 800 gallon tank can easily spread 350 pounds of mulch over 8,000 square feet in one application. The Bowie Victor 800 is equipped with a built-in shredder bar, and uses twin agitators to keep slurry homogeneous. Call or write Bowie today. We make serious equipment for serious landscapers.

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Circle No. 108 on Reader Inquiry Card

NEWS from page 18

For these reasons, Scott Harrison of Penn State University believes the industry must consider the influence of turfgrass and landscape management on water quality, and how lawn care is perceived in the public eye.

Harrison has collected data with respect to nutrient and pesticide use in urban/suburban landscapes. He knows the present aggressive regulatory stance on pesticide use will affect every company's programs, but he does not recommend a defensive posture.

"We have to adjust our management procedures. The industry must police itself rather than be negative," he says. He advises high standards of cleanliness, chemical disposal and personnel training. He also recommends "more intelligent landscape designs," using low maintenance, low nutrient requirements, and more customer education on environmental issues.

"If we're going to deal with the regulatory situation and a high degree of public scrutiny," concludes Harrison, "we must keep these things in mind." □

MANAGEMENT

Assist programs fight drug abuse

BALTIMORE — If you live in Maryland and believe employee drug abuse is a problem at your company, call Bill Lowry at (301) 225-6873.

Lowry, an official with the Maryland Department of Alcohol and Drug Abuse, addressed the Maryland Turfgrass Conference recently on how to identify and deal with drug abuse among employees, something he believes affects many companies at alarming rates.

According to Lowry, generally 20 percent of the nation's workforce is im-

The better, more natural looking lake and pond dye

Why settle for artificial looking dye when TRUE BLUE™ will give your lake or pond a natural, living color appearance. The secret's in our tried and true blue formula that makes the other brand look unnatural by comparison.

Try it and see for yourself why TRUE BLUE is fast becoming the preferred lake and pond dye. The one that's a natural. For more information and a technical bulletin, call or write today.

Circle No. 168 on Reader Inquiry Card
One look tells you. A golf course just doesn't reach this level of beauty and playability without effective control of turf diseases.

Like large brown patch. When tees, greens and fairways come under its attack, things can get u-g-l-y.

Unless you attack back—with Rubigan, tank-mixed with a contact fungicide (Daconil 2787ª, Chipco® 26019, or a thiram product).

This adds even more knock-down power to Rubigan's extended disease control. Just one application can clean out even a heavy presence of brown patch for 10-14 days.

One Rubigan treatment also can keep your course dollar spotless—up to 28 days. One case of Rubigan will treat up to 4 acres of greens and fairways. It gives you powerful preventive action against anthracnose too.

This year, make Rubigan your foundation fungicide. Find out how quickly large brown patch and 13 other common turfgrass diseases find themselves overmatched. See your Elanco distributor. Or call toll-free: 1-800-352-6776.

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A Division of Eli Lilly and Company
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Rubigan™—(tenamyl, Elanco)
Daconil™—(chlorothalonil, Fermenta Plant Protection),
Chipco—(iprodione, Rhone-Poulenc)

Brown patch is no match for a Rubigan® tank mix.
To find an elite bluegrass at a friendly price, you ought to read between the lines.

Compare Fylking's competitive price and advantages! Fylking forms a thick, lush turf that has improved disease and drought resistance. Fylking greens up earlier, stays green longer; can be cut as low as 3/4 inch— even 1/2 inch. Fylking has been proven over many years of international turf testing.

Ask your seed distributor for Fylking.

KENTUCKY BLUEGRASS

Another fine, quality controlled product of Jacklin Seed Company

LANDSCAPING

More production to meet goals

NASHVILLE, Tenn. — Do you envision your landscaping company as a "production company?" Are you fluent in "production language," and do you generate "production numbers" to set goals and judge the output of your employees?

If not, perhaps that's the reason why business is up one month, down the next.

In a back-to-the-basics seminar at the Landscape Expo here, Phil Christian of PDC Consultants seemed to be saying that the idea of "production" is a mind-set needed for consistency.

A production company should be organized so the entire company serves as a support system for each crew or "production unit." The units consist of labor, equipment, material and transportation. The production company must make timely and accurate production numbers on a project-by-project basis. Production goals are set by management, which monitors each crew's progress, making the necessary adjustments as needed.

Safety is another benefit of the production company. Training activities are structured around safe and correct procedures, strictly enforced by the crew chiefs.

"Increased productivity should produce an increase in quality if the production procedures are followed," advises Christian, "and projects are produced on schedule."

According to Christian, the importance of each production unit stems from policies and procedures designed to promote quality production. Good policies meet with little interference from management or managers.

Christian's theory of over-production says that the production units should be structured to meet any goal.

Correction

On page 46 of the February issue, a riding mower was misidentified. What was a Woods/Hesston Model 3150 is mistakenly identified as an Exmark 3150.

Woods/Hesston is an Oregon, Ill.-based manufacturer of professional lawn mowers. Exmark is based in Beatrice, Neb.
If you're about to commit your company's resources to building a truck fleet, you've probably looked at Ford Ranger, Chevrolet S-10, Toyota and Nissan. But your shopping list isn't complete until you've taken a good look at Mazda. Because Mazda trucks offer some very important advantages over the competition.

Mazda trucks: Number one in overall customer satisfaction for three straight years:

<table>
<thead>
<tr>
<th>Year</th>
<th>Mazda</th>
<th>Toyota</th>
<th>Nissan</th>
<th>Chevrolet S-10</th>
<th>Ford Ranger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1986</td>
<td>#1</td>
<td>#2</td>
<td>#5</td>
<td>#6</td>
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</tr>
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<td>#3</td>
<td>#7</td>
<td>#9</td>
</tr>
<tr>
<td>1988</td>
<td>#1</td>
<td>#2</td>
<td>#4</td>
<td>#8</td>
<td>#10</td>
</tr>
</tbody>
</table>

Mazda trucks: Offer a 36-month / 50,000-mile "bumper-to-bumper" warranty—The best in the truck business.

Mazda trucks: Offer the most truck for your money:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Mazda B2200 Base</th>
<th>Toyota Standard</th>
<th>Nissan Standard</th>
<th>Ford Ranger S&quot;</th>
<th>Chevrolet S-10 &quot;EL&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-speed</td>
<td>Standard</td>
<td>N/A</td>
<td>N/A</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Automatic transmission</td>
<td>Optional</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Double-wall cargo bed</td>
<td>Standard</td>
<td>Optional</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Tinted glass</td>
<td>Standard</td>
<td>Optional</td>
<td>N/A</td>
<td>N/A</td>
<td>Optional</td>
</tr>
<tr>
<td>Steel-belted radials</td>
<td>Standard</td>
<td>Optional</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Full carpeting</td>
<td>Standard</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Mazda B2200 Cab Plus. Combining spaciousness with practicality, the Cab Plus is the first extended-cab compact truck that allows two adults to sit facing forward in optional rear jump seats.

To find out even more ways Mazda outperforms the competition, contact: Fleet Department, Mazda Motor of America, Inc. 7755 Irvine Center Drive, Irvine, CA 92718. Or call (714) 727-1990.
You're witnessing a rare sight. Toro's Reelmaster® 450-D actually standing still. A rare sight because the Reelmaster 450-D is so dependable that it goes and goes and goes. Giving you the high capacity mowing and precise even cutting you've been looking for.

Each cutting unit is connected to a universal joint, so it can float freely in any direction, following the contour of the turf for an even, uniform cut. Or can be locked in a fixed position.

The Toro 450-D gives you protection against hydraulic fluid leaks. Wherever possible, hoses have been replaced with strong steel lines and O-ring seals protect connections. A hydraulic warning system flashes an alarm when the fluid level drops. For easy servicing, test ports for the hydraulic system are right on the side of the machine.

The Reelmaster 450-D can be customized with these accessories: ROPS, Cab, 5- and 7-bladed reels, rollers and thatching reels.
For taster, easier mowing with more beautiful results, call your local Toro distributor for a demonstration of the Reelmaster 450-D or contact Toro at the address below. A machine built from the ground up with proven Toro design experience. And that translates into the kind of productivity no one can argue with.

Toro's exclusive variable clip control allows you to calibrate reel speed and mowing speed to give you the highest quality of cut in varying course conditions. Combine that with faster mowing speeds, up to 7.5 mph and 12.5 mph transport speed, and you're going to witness an increase in productivity. All controls are in easy reach of the operator to provide greater comfort.

The 450-D is designed with its weight evenly distributed around a center-mount 50 hp engine for better balance. This means more uphill climbing ability than other machines and better traction.

For faster, easier mowing with more beautiful results, call your local Toro distributor for a demonstration of the Reelmaster 450-D or contact Toro at the address below. A machine built from the ground up with proven Toro design experience. And that translates into the kind of productivity no one can argue with.

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Here's broad spectrum protection that can wipe a whole line-up of insects right out of the picture: ORTHENE Turf, Tree & Ornamental Spray.

Cleared for use on a long list of trees and plants, ORTHENE is also cleared for turf insects — including mole crickets in Florida. With ORTHENE, one spray kills pests like tent caterpillars, whiteflies, Japanese beetles and thrips on contact. Also, use ORTHENE for lasting residual action against other insects from aphids to sod webworms.

ORTHENE kills both on contact and by systemic action. It makes the whole job of protecting lawns, golf course turf, trees, shrubs and flowers simpler, more convenient and more effective. Give yourself the edge against insects. Control them with ORTHENE Turf, Tree & Ornamental Spray.

Avoid accidents. For safety, read the entire label including precautions. Use all chemicals only as directed.

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ATHLETIC TURF

Kurtz leaves STMA
Kent Kurtz, Ph.D., has resigned as executive director of the Sports Turf Managers Association after four years.

Kurtz, a member of LANDSCAPE MANAGEMENT's editorial advisory board, is a professor at Cal Poly/Pomona. With those duties and all the advisory positions he holds, he was finding his schedule too full to continue as executive director. "Four years is a long time, too," he told LM.

Mark Hodnick, president of STMA and supervisor of landscape services at Cal Poly/Pomona, is handling what were Kurtz's responsibilities.

Are you a prudent manager?
If you're worried about being sued by someone who was injured using your field, ask yourself if you manage that field in a reasonably prudent manner, says Elyzabeth J. Holford, J.D., of Virginia Tech University.

"Your duty in a nutshell is to refrain from creating a situation where there is an unreasonable risk of injury," says Holford.

Holford told attendees of the 29th Annual Virginia Turfgrass Conference that lawsuits against athletic field managers are more and more common. That's because of an increase in leisure time, which means more athletes are suffering more injuries; more lawyers "who have no qualms about taking any case to court"; and the "consumeristic" society of today that says: "I paid to use this field so it better be safe."

What can you do to protect yourself? "Often the simplest things are overlooked," says Holford. She stresses the importance of meeting all federal, state and especially local regulations regarding athletic fields. Also:

- clearly post warning and exit signs;
- rehearse evacuation procedures;
- conduct and document regularly scheduled maintenance checks;
- keep a file of all your requests for maintenance and repair, and the responses you received; and
- use quality materials and personnel for turf installation and repair.

"If you can't afford the highest quality people or materials you're telling me you can't afford a lawsuit, yet you're willing to take the risk of incurring one," she adds.

Making playgrounds safer
Though playground equipment ranks fifth on the list of the 100 most hazardous consumer products, there are steps a facility
manager can take to make playground areas safer, says William C. Hoover, Department of Parks and Recreation, City of Charlottesville, Virg.

"It is my opinion that proper design, construction, inspection and maintenance are the key elements in providing a safe and enjoyable playground area," said Hoover at the 28th Virginia Turfgrass Conference.

Important construction considerations include a good drainage system, enclosing the area with a border that is at least eight to 10 feet away from any apparatus and increasing many of the manufacturer's installation recommendations. "We recommend increasing the amount of concrete and the size of holes dug for footing," says Hoover. "All footings should be a minimum of two inches below rough grade finish to avoid problems with the concrete protruding into the finished area."

There are many organic and inorganic materials you can use to provide a surface that offers a maximum cushioning effect. He recommends a combined depth of no less than 10 to 12 inches. "It has been our experience that the most effective surface materials are shredded rubber and pinebark mulch," says Hoover. "The shredded rubber is our best surface because it's safe, has good longevity and durability and is easy to maintain."

Athletes prefer new turf

Researchers at the University of California, Riverside (UCR) say that the new cool-season turf varieties adapted to the Southwest climate provide better cushion and are therefore safer for athletes than existing varieties.

"Results from our study indicate that new perennial ryegrass varieties offer important safety features for football and baseball players, especially during the winter months when Bermudagrasses are dormant," says Stephen T. Cockerham, leader of UCR's sports turf research program.

UCR researchers tested 53 varieties during the four-year study. Citation II was reported to have performed the best under the stress of serious sports traffic, but not statistically better than eight other varieties.

"As improvements continue in the development of cool-season turfgrasses adaptable to the Southwest, sports field management will change dramatically," predicts Cockerham.

Whatever sort of grounds you manage professionally, DIQUAT Herbicide H/A can help you keep them clean and trim. With its fast-acting formula, DIQUAT gives rapid burn-down, usually within 24-48 hours, of a wide variety of annual grasses and broadleaf weeds. DIQUAT has a proven track record for getting rid of unwanted grasses and weeds, even under less-than-ideal weather conditions. A non-selective contact herbicide, DIQUAT will burn back or control nearly anything green to which it is applied.

To help DIQUAT work at its best, use X-77 Spreader (non-ionic). X-77 makes spray droplets spread quickly and evenly to coat waxy leaf surfaces for optimum performance.

Check the savings versus a more expensive application of ROUNDUP®. DIQUAT does the job with a substantial savings! Get DIQUAT Herbicide H/A — and wipe out problem weeds, fast!

Avoid accidents. For safety, read the entire label including precautions. Use all chemicals only as directed.

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DIQUAT HERBICIDE H/A

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REMEMBER THE Roundup

Along driveways

Edging along fencelines

Along flower beds and planters