"There are so many things to do as far as pre-notification goes," says Sek, "it will be hard to do a good job of scheduling and completing a project on a timely basis."

Title 10 requires commercial lawn care applicators to enter into written contracts with customers, provide warnings, and post the perimeter of treated areas with warning signs. The new notification regulations require most pesticide applicators to provide detailed written notification to owners and occupants of buildings or commercial property where pesticides are applied. The regulations mandate posting warning signs, specific contract language and "cover sheets" be given to the owners or occupants of homes or businesses prior to a pesticide application.

**More 'labelling'**
The combined forces of the green industry and pesticide groups argue that the entire notification system constitutes additional "labelling," prohibited by Section 24(b) of FIFRA.

"We're in favor of notification," says Schroeder, "but we feel that the notification regulations are confusing and are not going to properly notify the consumer. So much paperwork is involved that the consumer will not be able to pick out the important facts."

Schroeder believes the case basically stems from an abuse of power by the state DEC.

**Optimism?**
James F. Wilkinson, executive director of the Pesticide Public Policy Foundation, says the coalition has reason to be optimistic.

"We have been discussing the issue from a legal perspective with several different attorneys," Wilkinson says. "The Pesticide Coalition did not jump into this thing without checking it out with different people, and the consensus: we have a good chance of winning."

**LANDSCAPING**

**Job estimating: don't guess; practice, practice, practice**

Have you ever completed a job and, picked up the check and deposited in the bank, and find yourself asking the question, "Did I price that job fairly?"

Sure you have. Or will. That's why it's important—in the interest of fairness and good business—to practice accurate and thorough estimating.

Phil Christian, president of PDC Consultants, is a stickler for accurate estimates, which he spoke on at the recent Landscape Exposition in Nashville, Tenn. "Estimating is a procedure that we must go through to establish a sale price for our services," said Christian. "The cost estimate must include all labor, material, equipment and overhead, plus profit. Estimating the cost of services on a specific landscape means the estimate must be unique to the site."

And, of course, you must also know each quantity in the estimating formula. "If you don't know the distance you travel to the job, there can be no calculations due to the absence of a known quantity," Christian said.

Christian believes production factors are variables, and may be adjusted as required to protect the accuracy of the estimate.

"If we noted during the first hour of the trip that we were below our production factor of 50 mph," Christian continued, "what could we do to protect the original estimated time of arrival? We could increase the production factor to 50 mph, or increase production to fit the new circumstances, and keep the original estimate."

Measuring the landscape is easy, and simply involves four basic quantities: area of turf, linear feet of edging; area to be pruned, and area of shrub beds or mulch area. Combine these areas or take percentages of them to estimate the linear feet covered by all maintenance activities.

"Measure all the turf area," advises Christian, "no matter what condition the turf is in. Any large bare spots are included in the measurement, and duly noted on the analysis report."

Make a category called "push mower," for all areas that cannot be mowed with a 36-inch or larger mower. Examples? Very steep slopes or areas too narrow for a 36-inch mower to handle without disturbing the beds on both sides.

Other special attention areas should be indicated as such:
- rough-cut areas, or areas to be bush-hogged several times each year;
- large open areas or aesthetic fields that may require special equipment or frequency; or
- wet or swampy areas.

**LAWN CARE**

**Companies rally behind PR plans**

In light of recent regulatory and legislative mudslinging, the Professional Lawn Care Association of America (PLCAA) has formed a public relations network. This action is being taken to reinforce the industry's reputation with the consumer.

Rick Steinau, president of Greenlon and Ace Exterminating Co. and a PLCAA director, said the campaign has a two-fold purpose. The first is to beat anti-pesticide groups to the punch by informing the media of the issues first. The second is to publicize the benefits of effective lawn care and landscaping services (cooling effects, erosion control, noise abatement, etc.). Monthly news releases will be sent to local garden editors, on company stationary, with appropriate quotes included. Steinau says response to the program has been fantastic.

"It's what I predicted would happen," says Steinau. "Once we had an opportunity to present the program to the membership, and they saw the ease with which it would happen, it was accepted."

Steinau said at least 77 cities are now represented by media contacts.

Contact companies will have to foot an annual mailing bill of about $300, but that's a small price to pay, considering the plan's potential benefits.

The first releases will be mailed in February.
To make a dramatic turnaround in your productivity, put yourself behind the wheel of the machine that outmaneuvered them all: The new Groundsmaster® 220-D or the new gas-powered 224 from Toro. No other out-front rotary mowers are as maneuverable, as effortless to operate or provide as much trim productivity.

Fourlink power steering is your link to unmatched maneuverability. Now operators can make sharper, easier turns with less fatigue. This makes trimming around any obstacle quick and almost effortless.

When it comes to engine size, Toro gives you the power of choice. The new Groundsmaster 220-D features a 20 hp liquid-cooled, 3-cylinder Mitsubishi diesel engine. The new Groundsmaster 224 gives you the same engine in a gas model, providing you with the durability diesels are known for, but with more power. Both give you all the speed and power needed for the most demanding jobs.

The Groundsmaster 220 also is available with a 20 hp air-cooled gas engine.

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With all these performance features, it's obvious why the new Groundsmaster 220-D and 224 are so popular. And why Toro is the leader in out-front riding rotary mowers. To request a demonstration, call your local Toro distributor or contact Toro at the address below.

A patented, heavy-duty carrier frame with floating cutting decks allow the cutting units to follow ground contours for a superb quality of cut. For added cutting control, there are three decks to choose from: 72", 62" or 52". And the 52" is available with an optional grass collection system.

The Toro Company, Commercial Marketing Services, 8111 Lyndale Ave. So., Minneapolis, MN 55420.
ORIGIN OF SPECIES...Ever wonder where kikuyugrass got its name? Ann Reilly, a noted garden writer, has a theory. During a trip to Kenya, she made these revelations: "I don't know for sure, but I suspect the grass was named for the African tribe of the same name who were instigators of the Mau Mau rebellion back in the '50s. The Kikuyu tribe believes its god lives on top of Mount Kenya. If it does, he certainly gave them a grass that seems to never be bothered by insects, disease or lack of water."

FROM THE ORIENT...Much ado has been made about the business acumen of the Japanese, and with reason. Here are some observations that Roger Funk, Ph.D., of the Davey Company made at the most recent PLCAA conference: "The reason Japan is more successful in service industries is that they have learned to ask the customers what they want. Clients have changed and lawns have changed and many of you haven't. The customer is getting more sophisticated, more demanding than ever. We want to target the client that wants and needs and can pay for all our services. All you have to do is track who's buying what services." Funk always makes it sound so easy.

LUCKY FELLER...Speaking of the PLCAA conference, Delta offered two tickets anywhere the airline flies, to those PLCAA attendees using the airline to get to and from New Orleans. The lucky guy was Nick Dennis of Pro Lawn Plus in Jacksonville, Fla. And a bon voyage and sayonara to him.

SUPER STATS...Industry figures that emerged from Elanco Company's distributor's meeting late last year: • In 1975, 12,800 golf courses spent $75 million on fertilizers and chemicals; by 2000, the numbers are expected to be 15,270 spending $455 million. • In 1975, 2.2 million residential lawns were being professionally serviced with fertilizer and chemical sales of $72 million; in the year 2000, those numbers might be 7.7 million with sales of $835 million. • In 1975, 1.55 million landscaping customers spent $59 million on fertilizers and chemicals; in 2000, they see 2.7 million customers spending $480 million.

THINGS NEVER CHANGE...From the October, 1962 issue of Weeds and Turf: "We just saw a letter to the editor of a local paper, in which a lady gardener protests, on behalf of her garden club, about the so-called misuse of pesticides. This worried do-it-yourselfer says she asked her club (about 40 ladies) how many read labels on their garden chemicals and only four answered 'yes.' This, the lady proceeds, is the reason we need more laws about pesticides! Some hardworking custom applicator, who's spent years trying to convince his customers that labels must be read, would no doubt like to refute this Rachel-Carson-in-the-bud, since it is frequently the professional who gets unjustly blamed for the amateur's mistake."

SURVEY from page 11

Duncan is this survey fact: 75 percent of the time, the male of the household makes the decision to purchase lawn care.

"That's no slight to the females," assures Duncan. "That's just the way it is."

To make the best use of this fact, Duncan says LCOs must prospect more at night and in person. "You have to figure out ways to get to the male decision-maker."

Professional users are likely to be over 40 (73 percent), are college graduates earning more than $25,000 incomes and live in the mid-Atlantic region of the northeastern United States.

DIYs are generally under 40 years of age, earning $15,000 to 35,000 per year. Chances are 50-50 of a college education.

3. Attitudes toward lawn care

Duncan uses the term "psychographics" to describe this category. The DIY is guided by the belief that an attractive lawn is important and worth the necessary time. However, the DIY is unimpressed with lawn care and believes it to be "not worth the expense." Brand names mean nothing to the classic DIY.

Professional customers believe an attractive lawn is important and worth the expense. They attach to that belief a sense of pride in their lawn's appearance. Brand names mean a lot to professional users, and they will pay more for quality work.

LAWN CARE

PLCAA draws 700 companies to convention

Though it didn't crack any records for overall attendance, the Professional Lawn Care Association of America convention and trade show drew more lawn care companies than it ever has. "We had fewer people per company, but we drew almost 700 companies," said PLCAA assistant executive director Doug Moody. "There's a certain levelling off in terms of growth. We're going to have to try some new twists on the show floor next year."

The 1988 conference and trade show was held in the Louisiana Superdome with 185 manufacturers and suppliers buying space.

"Who would've thought, four years ago, that we'd be in the Superdome," noted executive vice-president Jim Brooks. "And the Republicans (at the Republican Na-
To apply granular XL is to excel in your preemergence weed control. With just one application, you can keep your ornamental and landscaped areas free from many grass and broad-leaf weeds, for six to eight months.

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tional Convention) used only half of it. We got the whole damned thing!"

Mike Spicer of Perma Green in Boise, Idaho, accepted Lawn Care Industry magazine's "Man of the Year" award on behalf of former owner Jim Marria, who died in a plane crash on his way home from the 1987 PLCAA convention.

"Jim kind of looked at this association as his company," Spicer said of the former PLCAA president. "If Jim were here today, he'd be very honored."

PLCAA president Russell Frith of Lawn Doctor, Matawan, N.J., speaking at the annual business meeting, said the organization is establishing a $100,000 foundation in the names of former presidents Marria and Bill Fischer, who passed away earlier in the year.

Frith noted that the PLCAA gained about 300 new members in 1988 to bring its membership to 1300, three times what it was four years ago.

Frith also presented a plaque to Dow Chemical's Larry Speer for the donation the company made to the Special Olympics in the PLCAA's name. Monsanto, Ciba-Geigy, Elanco and Dow also received plaques for contributions to the organization.

PRODUCTS

New fertilizer is all organic

More than 35 golf course superintendents, horticulturists and landscapers were in Hilton Head, S.C., recently to preview a new organic fertilizer specially designed for sports turf and landscape use.

The product, Bio-Turf, is a safe, all-natural organic fertilizer for greens, tees and fairways, plus general landscaped areas. It is non-toxic, non-burning and non-polluting. It contains no urea.

"This was our first time out, and we were all very pleased with the reaction of these turf professionals to our new product," Bio-Turf founder Bob Onorato says.

"Dr. Keith Karnok's talk on the growing importance of natural turf care products was informative and well-received by the group."

Karnok, a University of Georgia agronomist, is scientific advisor to Bio-Turf.

For more information on the product, contact the company at 23-B Shelter Cove Lane, P.O. Box 6507, Hilton Head Island, SC 29938; (803) 686-4700.

Corrections

The October issue of Landscape Management contained an error (p. 26) relative to the formulation of Riverdale Chemical Co.'s Weedestroy product.

"Weedestroy does not contain dicamba. The correct formulation is MCPA + mecoprop + dichloroprop."

The October story on tree and shrub growth regulators incorrectly listed paclobutrazol (Clipper) as a turf regulator product of O.M. Scott & Sons (p. 54). Clipper is a tree growth regulator, marketed exclusively by Monsanto under license by ICI Americas. The only labeled application method presently approved for Clipper is by injection.

We apologize for any confusion these errors may have caused.

EQUIPMENT

Deep aeration arrives in U.S.

What is called "deep-tine aeration" is being learned from landscape managers on the British Isles by their counterparts in the U.S. That, according to Stan Zontek of the USGA Green Section.

"When I first saw deep-tine aeration at St. Andrews
Cut aeration labor by 75 percent.

Introducing the new Cushman Core Harvester® attachment.

Now one person in a Turf Truckster® vehicle can scoop up, load and dump aeration cores in the same time it takes three workers with shovels. In fact, with the revolutionary new Core Harvester attachment, you can clean up an average 7,000 sq. ft. green in about 15 minutes — two to three times faster than you’ve ever done it before.

As gentle as it is quick.

The Core Harvester’s unique spring-balanced parallel link flotation system protects your fine turf from scuffing. Because they float, the Core Harvester’s gathering blades automatically adjust to undulating greens for quick, gentle operation.

The Core Harvester attaches easily to Turf Trucksters, and retrofits 1985 and newer models. After the Core Harvester has been attached, it’s easy to take off by just removing four bolts, two hoses, and you’re ready to go.

There’s nothing else like it on the market today. The new Core Harvester, only from Cushman. For a convincing demonstration on your course, contact your Cushman dealer today. Or call toll free: 1-800-228-4444.

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It's Effective. Grower and university trials have shown that Safer® Insecticide Concentrate kills a broad spectrum of insects. It's effective on aphids, mites, leafhoppers, scales, and whiteflies that affect plants, vegetables, trees, and fruits. Made from naturally occurring fatty acids, Safer® kills pests fast, on contact, by penetrating cell membranes. Yet it spares many beneficials. And it eliminates the problem of resistance buildup, too.

It's Safe. In addition to use during the growing season, Safer® Insecticide Concentrate can be used as a pre-harvest clean-up spray. It's safe for workers to re-enter as soon as the spray is dry.

Workers can mix, handle, and apply Safer® without undue concern about exposure. Neither special equipment nor special safety gear is required. And Safer® Insecticide Concentrate won't contaminate soil or ground water because it's biodegradable.

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Get a Free Sample. Judge for yourself just how effective this new, natural insecticide really is. Fill out and return the coupon and Safer® will send you a free sample, a user's guide, and complete information including field trials. This offer expires April 30, 1989. Limit one sample per customer. Or see nearest dealer for special cash rebate offer.
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Lebanon Country Club Fertilizers with Ronstar.

in Scotland, they did the whole golf course," Zontek told attendees at the Ohio Turfgrass Conference. "The machine, called a Verti-Drain, allows you to aerate to depths of 6 to 12 inches. You bring up a tremendous amount of soil."

"The kicking action is the key to the Verti-Drain," Zontek continued. "The deeper you can punch a hole in troublesome soils, the better off you are."

The Verti-Drain is in use at Pine Valley Golf Course in New Jersey, according to Zontek. Other pieces of equipment that can be used with similar results are the Floyd McKay drill aerifier and the Aerator aerator, Zontek said.

"They give you a way to manage greens as an alternative to reconstruction," he concluded.

LABOR

Firm provides temporary help

Amigos Empleo Legal Inc. provides temporary help to the green industry, according to company owner Bob Wingfield Jr.

"We have placed both laborers and foremen from Florida to New York with great success," he says. "Feedback from contractors indicates increases in production from 30 to 100 percent, not to mention reliability, which is second to none."

Amigos deals strictly with workers, both male and female, documented under the Immigration Reform and Control Act of 1986. The company charges a modest fee to companies hiring the help.

For more information, write or call Wingfield at 5415 Maple Ave., Suite 112-A, Dallas, TX 75235; (214) 634-0500.

CHEMICALS

Confront nears new EPA label

Confront herbicide, a new non-phenoxy broadleaf mixture under development by Dow Chemical Co., is expected to be approved by the Environmental Protection Agency next year.

"We submitted it for EPA registration in November," explains product technical manager Monique Mackasey, "and will hopefully get it by the third quarter of 1989."

The product is a post-emergence herbicide designed to control dandelion, narrow-leaf plantain, Canada thistle, oxalis, ground ivy and other weeds in cool-season grasses. Confront is an amine salt formulation containing one part clopyralid to three parts triclopyr per gallon.

Triclopyr amine is available for commercial sale in the Turflon line of herbicides, but clopyralid is a newly-developed herbicide.

Rob Peterson, Dow's turf marketing manager, sees a good fit for the product. "We think Confront offers several unique benefits to the turf care industry, including a significantly reduced active ingredient pay load per acre," he says.

Results from an Indianapolis, Ind., test show that, eight weeks after treatment, tank mixtures achieved 91.7 percent control of broadleaf plantain, 91.7 percent control of ground ivy and 90 percent control of dandelion. A similar study at the University of Illinois in Urbana reports 100, 80 and 67 percent control of white clover, broadleaf plantain and dandelion, respectively.

ORGANIZATIONS

Colo. grounds group expands

Attention all Colorado landscape managers: The Colorado Association of Campus Grounds Professionals needs you.

Established in December 1987, the association is an informational and educational assistance organization for college and university campus land-