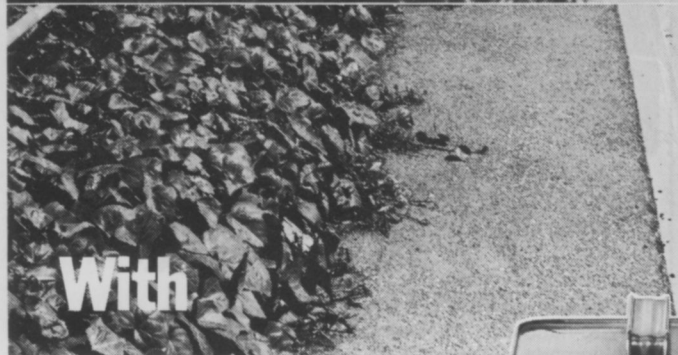


Don't kill it. Control it.



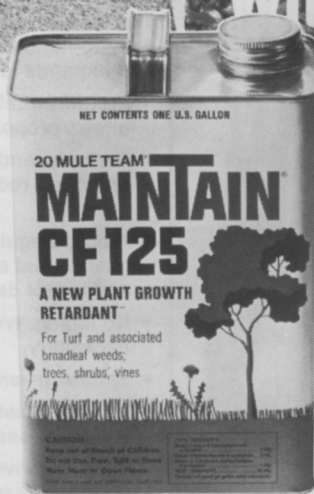
MANTAIN® CF 125 is the growth retardant that thinks like a gardener. It works with nature, not against it.

MANTAIN effectively slows the growth rate of grass, shrubs and trees. That means less mowing, trimming, edging and pruning. And that means you'll be cutting down on maintenance costs.

Just about everything MANTAIN touches grows slower. (How much slower depends on the kind of weather and greenery you've got.)

Your maintenance people won't have to go out on a limb, either. MANTAIN can be sprayed where machinery can't go. Up steep slopes, around guard rails, along fences.

Besides keeping a green thing from



getting out of hand, MANTAIN practically puts a stop to pesky broadleaf weeds.

In your business, nature running wild can increase the chance of fire or damage. So you can spend a lot of money on maintenance, use a soil sterilant to eliminate vegetation, or use a growth retardant to control nature and keep things green.

Naturally, it makes more sense to use MANTAIN.

Contact your U.S. Borax distributor or your nearest U.S. Borax office.

California: 3075 Wilshire Blvd., Los Angeles 90010

Georgia: 296 Interstate N. Parkway, Atlanta 30339

Illinois: 1700 E. Sherwin Ave., Des Plaines 60018

New Jersey: 60 Craig Road, Montvale 07645

Canada: 234 Eglinton Ave., E., Toronto, Ont. M4P 1k5

WTT Turf Herbicide Report

thistle, sunflower, tumble weed, ver-vains, vetch, wild carrot, ragweed, sowthistle, stinging nettles, wild strawberry, tan weed, toadflax, ver-vains, wild garlic, wild onion and wild sweet potato.

Its chemically active ingredient is 49.3 percent dimethylamine salt of 2,4-dichlorophenoxyacetic acid.

The chemically active ingredient is 49.5 percent dimethylamine salt of 2,4-dichlorophenoxyacetic acid.

Banvel 4-S can control curly dock, common chickweed, mouse-ear chickweed, stitchwort, dog fennel, knotwood, sheep sorrel, clover, knawel, chicory, henbit, English daisy, spurge, purslane, pepperweed, carpetweed, lawn bur-weed, hawkweed and spurry.

Its active ingredients are 49 percent dimethylamine salt of dicamba, and 7.9 percent dimethylamine salt of related acids.

Pennwalt Corp., Philadelphia, makes two turf herbicides. Endothol turf herbicides is used to control Veronica (speedwell), knot-

weed, bur clover, white clover, sweet clover, black medic, chickweed (in the South), cranesbill, filaree, dichondra (pony foot) goatshead, henbit, lespedeza, oxalis, vetch, little barley, fescue grass, cheat (and other annual bromes), ryegrass and *Poa annua*. When mixed with 2,4-D, it can control other broadleaved weeds.

Pennamine D7 can control thistle, wild morning glory, bitterweed, broomweed, croton weed, dandelion, dock, dogfennel, fanweed, kochia, lambsquarters, mallow, marshelder, mustards, peppergrass, pigweed, plantains, ragweed, shepherd's purse, tarweed, vetch, wild carrot, wild garlic, wild onion, wild ragweed, buckbrush, elderberry, hazel, coastal sage, sumac, willow, sand shinnery oak, field bindweed, leaf spurge, poison ivy, horse nettle, ironweed, cocklebur, milkweed, stinging nettle, black-eyed susan, and snow-on-the-mountain.

It is an aqueous solution of di-iodium salt of endothol.

3M Company of St. Paul, Minne., is not currently marketing commercial products but does have an EPA temporary permit label for Embark plant growth/regulator/herbicide (formerly MBR 12325). It may be applied to bentgrass, Italian ryegrass, Kentucky bluegrass, fescue, Bermudagrass, red brome, rigput brome, St. Augustine grass, wild barley, wild oat and can control red stem filaree, fiddleneck, mustards, cheeseweed, sour clover and vetch.

Its active ingredient is 52 percent diethanolamine salt of N(2,4-dimethyl-5-trifluoromethyl sulfonyl amino phenyl) acetamide.

Thompson-Hayward Chemical Company, Kansas City, Kansas, manufactures Ded-Weed for controlling Canada thistle, perennial sow thistle, bindweed, white top (hoary cress), Russian knapweed, and other annual and perennial weeds in turf.

It may injure bentgrass, St.

Continues on page 44

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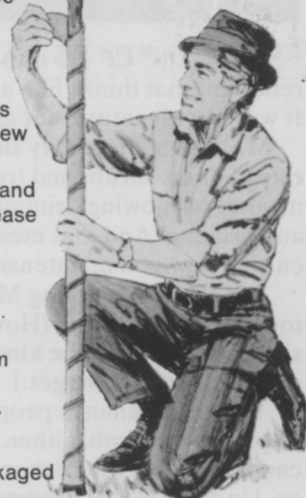
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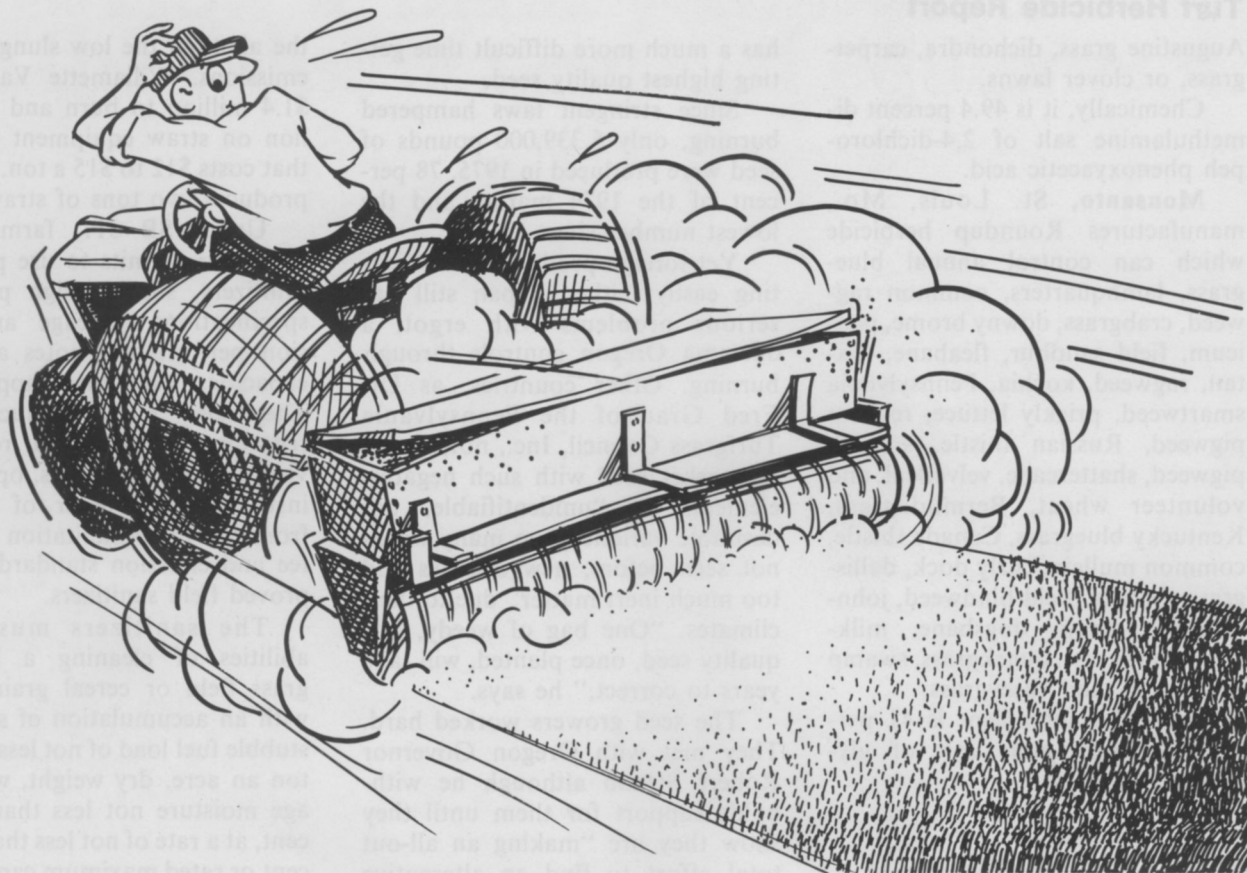
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Ross Daniels, Inc. 1720 Fuller Rd., West Des Moines, Iowa 50265



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TOUCHDOWN*

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Touchdown Kentucky Bluegrass is no slow poke on your fields or fairways. This new variety gives you the quick start not usually associated with Elites—and once it germinates it keeps right on growing sending out vigorous rhizomes and new shoots to quickly give you a turf cover that lets you breathe easy. Faster cover means fewer washouts and blowouts, less competition from moisture and nutrient robbing weeds and a more quickly established turf for sale as sod or play on fairways. Touchdown can be mowed short and its density means you can plant it right up on tees too. You'd expect this with Touchdown's pedigree.

Touchdown was discovered by a professional—Tom Rewinski—Course Superintendent at the famed National Golf Links of America on Long Island. It was first evaluated by Dr. C. R. Funk at the turf grass breeding program at internationally acclaimed Rutgers University. Since Rewinski's discovery, intensive evaluation there and at numerous other institutions Touchdown has received top turf quality ratings.

And it only stands to reason that Touchdown will be a lower cost management grass. More rhizomes and side shoots means growth is directed where you want it—not just mow, mow, mow. Greater levels of disease resistance means fewer costly fungicides and dense aggressive turf means better competition against weeds and *Poa annua*.

Professional Quality Seed of Certified Touchdown Kentucky Bluegrass is now available.

To find out how great Touchdown is—contact your distributor and try some.

*Plant variety protection applied for.

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Turf Herbicide Report

Augustine grass, dichondra, carpet-grass, or clover lawns.

Chemically, it is 49.4 percent dimethylamine salt of 2,4-dichlorophenoxyacetic acid.

Monsanto, St. Louis, Mo., manufactures Roundup herbicide which can control annual bluegrass, lambquarters, common ragweed, crabgrass, downy brome, panicum, field sandbur, fleabane, fox-tail, ragweed, kochia, Pennsylvania smartweed, prickly lettuce, redroot pigweed, Russian thistle, smooth pigweed, shattercane, velvetleaf, and volunteer wheat, Bermudagrass, Kentucky bluegrass, Canada thistle, common mullein, curly dock, dallisgrass, fescues, field bindweed, johnsongrass, hemp dogbane, milkweed, paragrass, quackgrass, swamp smartweed, and vaseygrass.

Its active ingredient is 41 percent isopropylamine salt of glyphosate.

SEED BURNING *from 14*

Oregon for reproduction. This market may dry up for the state now that Europe markets won't accept seeds not meeting certification. Without open field burning, Oregon

has a much more difficult time getting highest quality seed.

Since stringent laws hampered burning, only 5,339,000 pounds of seed were produced in 1975, 78 percent of the 1974 market and the lowest number since 1969.

Yet foreign producers aren't sitting easily, either. Japan still has serious problems with ergot, a dilemma Oregon controls through burning. Other countries, as Dr. Fred Grau of the Pennsylvania Turfgrass Council, Inc., notes, tend to market seed with such negative elements as "unidentifiable, undesirable varieties, too many weeds not seen before, new diseases and too much inert matter" due to their climates. "One bag of weedy, low quality seed, once planted, will take years to correct," he says.

The seed growers worked hard. They met with Oregon Governor Robert Straub although he withholds support for them until they show they are "making an all-out total effort to find an alternative solution." Under SB 311, he may suspend the bill in case of hardship or disease and similar catastrophes or may suspend burning entirely. But the Governor said he believes growers pursue open field burning as least resistance and economic opportunism, and have not researched alternatives properly. Oregon seed farmers heartily refuted this and refer to \$531,000 of \$954,826 of their budget spent for sanitizing research. Council member Scott Lamb points out they paid for a straw cubing plant and appointed a five man committee to study straw cubing and briquetting.

Some farmers pay to \$90,000 for their own straw machinery. They donate and haul straw to experimental plants for free but still face problems. The best one farmer could do was three acres an hour with very low moisture condition, significant emission and after burn from his \$35,000 investment. It required alterations to reach satisfactory smoke control and acreage production (he never reached both at the same time), and his neighbors asked he return to field burning since it circulated smoke higher into

the air than the low slung machine emissions. Willamette Valley pays \$1.4 million to burn and \$1.2 million on straw equipment for straw that costs \$12 to \$15 a ton. One acre produces two tons of straw.

Under SB 311, farmers must apply for permits to use pilot field sanitizers, show design plans and specifications, acreage and emission performance notes and rated capacities with their applications. They also must produce details regarding availability of repair service, replacement parts, operational instructions, a letter of approval from the Field Sanitation Committee and emission standards for approved field sanitizers.

The sanitizers must prove abilities of cleaning a harvested grass field or cereal grain stubble with an accumulation of straw and stubble fuel load of not less than one ton an acre, dry weight, with average moisture not less than 10 percent, at a rate of not less than 85 percent or rated maximum capacity of a period of 30 continuous minutes. It cannot exceed these emission standards; 20 percent average capacity out of main stack; leakage not to exceed 20 percent of the total emis-

Continues on page 46

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STH76-28

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How to make your board see the value of new turf equipment.



Convincing your Board of Directors that new turf equipment is a necessary and sound investment can be one of your most difficult tasks. They don't always see the benefits behind such a purchase.

And as good businessmen, they won't commit the money until they're sold on the expenditure. So when it comes time to face them, here are some of the things you should point out.

Point #1: The Duffer Demands More.

Today's golfer is more sophisticated than ever before. He has seen, and many times played, some of the finest courses in the world. He recognizes the value of a good course. And if yours is sub-par, he'll go elsewhere.



With this more sophisticated golfer comes the need for more sophisticated golf course maintenance. Heavy player traffic has increased the work required to keep the turf in top condition. So jobs that were once optional are now mandatory.

Where spiking a green used to be sufficient, today it also needs deep aeration.

All this dictates the use of specialized equipment that wasn't available ten or even five years ago. Equipment that will enable you to build and maintain a top flight course, and help avoid special turf problems that could prove extremely costly.

Point #2: Machines Do More.

In the past decade, the price of labor has tripled. The same number of men must do more work in less time to give you the same value for each labor dollar invested. Mechanized equipment allows you to trim hundreds of unnecessary man-hours. One man can now cut more sod in an hour than six men used to cut in six hours. Or that same man can aerate 18 greens in a few hours instead of a few days.



New engineering concepts coupled with precision machinery means he'll do a consistently good job. You get better results and fewer occasions when a job must be redone.

And your turf equipment is depreciable; something your labor is not. You get an accounting break over a period of years. At the end, it's like owning a piece of free machinery. One that will continue to save you money long after you've paid for it.

Which brings us to the third point.

Point #3: Longevity Makes Them Worth More.



Equipment life should be a prime consideration when you select a manufacturer. The longer a machine works, the more it does,

and the less maintenance it requires, the better your investment. And here's where we'd like to put in a little plug for Cushman and Ryan turf equipment.

Both lines of machinery are built to last . . . and last. It's not unusual to see a piece of Cushman or Ryan equipment still doing its daily chores after ten or fifteen years of use. We believe the idea of "planned obsolescence" should be obsolete.

But performance is just as important as longevity.

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Ryan offers a machine for almost every turf task. Equipment that does a better job, in less time, and with a minimum of maintenance. For over 30 years, all Ryan equipment has been built with three goals in mind: quality, performance, and innovation.

If "A Day With the Board" is in your future, we'd like the opportunity to tell you more about the full line of Cushman and Ryan Turf equipment. Write to us and we'll send you our catalogs, full of detailed product information. Information that may help you open a few eyes to the value of new turf equipment.



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Lincoln, NB 68501

FIELD BURNING

sion and no significant after-smoke originating more than 25 years behind the operating machine.

Once approved, acres burned by approved field sanitizers won't app-

ly to open building acreage allocation or quotas but will operate under either marginal or prohibition conditions.

In the direction of burning, Ore-

gon seed farmers hope to use 'the big burn' of five square miles of seed liner in one block, lighted scientifically on a good burn day for maximum combustion, a minimum of smoke and maximum lifting.

The seed growers are challenging the validity of parts of SB 311 in a class action suit filed in Marion County Court recently. They are asking the suspension of the 195,000 acres quota be lifted but are not now protesting the \$4 an acre burning tax. The defendants are the State of Oregon and the Director of DEQ, Loren Kramer.

Two Lane County residents have also named six seed growers in a suit which technically involves all growers in Lane, Lynn and Benton Counties. This class actions suit was recently granted a change of venue from Lane to Deschutes County and is scheduled for late July in Bend, Ore.

It falls into a summer of uncertainty for the Oregon seed growers, into prime burning time as aphids and aphid-related virus infestations attack cereal fields and the fields lack many defenses. □

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When answering ads where box number only is given, please address as follows: Box number, c/o Weeds Trees and Turf, Dorothy Lowe, Box 6951, Cleveland, Ohio 44101.

Rates: All classifications 50c per word. Box number, \$1. All classified ads must be received by Publisher the 10th of the month preceding publication date and be accompanied by cash or money order covering full payment. Mail ad copy to: Dorothy Lowe, Weeds, Trees & Turf, P.O. Box 6951, Cleveland, Ohio 44101.

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FOR SALE 1966 Asplundh aerial lift with chipper box. Phone 707 459-2013.

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PUBLIC AUCTION, September 8, 1976, Denver Turf Farms, Inc., Starting 10:00 A.M., RR 1, Keenesburg, Colo. 303 255 3322. 30 miles N.E. of Denver, 1 mile west of Junction of Colo. 52 and Colo. 79. Terms: Cash. Selling at the auction will be the following: 1971 Ford 9000 truck tractor, 1965 KW truck tractor, 1975 ¾ ton Chevrolet, 1974 Strick 40 foot trailer (with grain sides), 1963 Fruehauf 40 foot trailer, 1975 3 axle gooseneck trailer 24 foot, 1973 584 Case forklift (diesel), 1972 584 Case forklift (gas), 2 1973 Wiggins tollable forklifts, 1974 Brouwer sod harvester on 300 Ford tractor, 1966 3000 Ford tractor (with dual turf tires) (diesel), 35 Massey Ferguson tractor (with turf tires), 1975 9 Gang Jacobson mower, 1 Brilliant grass seeder, 1 Clark sprayer, 1-4 ton fertilizer spreader, 1 aereator, 1 turf Quaker, 1 field roller, 1 Ryan sod cutter, 1 Roll-A-Pack Roller, 1 sod blade sharpener, 60,000 feet of 3" aluminum pipe and sprinkler, 40,000 feet of 2" aluminum pipe and sprinkler in like new condition.

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CITY OF MIAMI Civil Service Examination for Facilities Grounds and Turf Manager. Salary \$1,143-\$1,460 month. Degree in Agronomy or Turf management plus 3 years experience, or 5 years full time Turf Management experience. Send resume and transcript to City of Miami Civil Service, P.O. Box 330708, Miami, Florida, 33133. Deadline, August 31, 1976.

INSTRUCTOR-HORTICULTURE, turf grasses, nursery, landscape installation and maintenance. B.S. in field plus two years experience in field, or six years in field. Ability to relate to young people. Write brief resume — submit to Rex Gaugh, Director Pinellas Vo-Tech Institute, 6100 154 Avenue N., Clearwater, Florida 33520.

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WANTED — Bean Royal 55 pumps and Bean 701 regulators. Washington Tree Service, 20057 Ballinger Rd., N.E., Seattle, Washington 98155. Phone 206 362-9100.

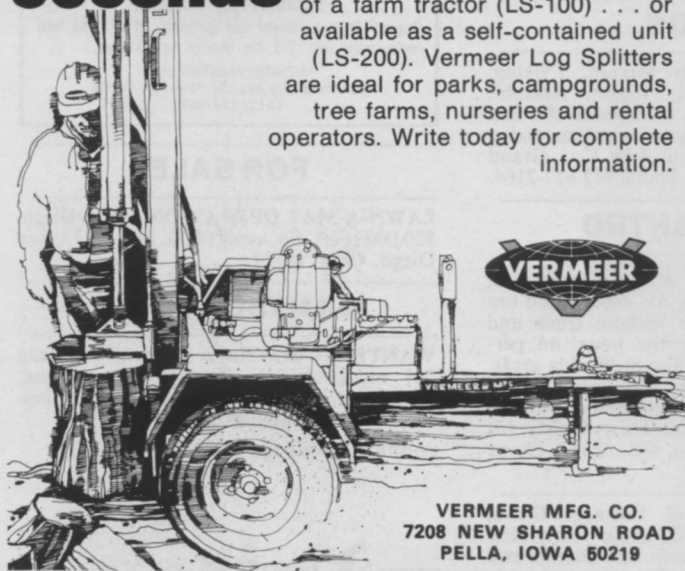
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Meeting Dates

Ohio Nurserymen's Association, Summer Meeting, Hueston Woods, College Corner, August 17-29.

Greater Cincinnati Golf Course Superintendents Association Meeting, Kenton Country Club, August 17.

Northern Michigan Turf Managers Association Meeting, Cheboygan Country Club, August 17.

Vermont Plantsmen's Association Annual Meeting, Randolph Center, August 18.

Rocky Mountain Golf Course Superintendents Split Meeting, Colorado City, Cheyenne, Glenwood Springs, August 19.

National Recreation and Park Association, Institute on Park Operations and Maintenance, Colorado Springs, Col., August 22-24, contact Frank D. Cosgrove, director, NRPA's Western Service Center, P.O. Box 6900, Colorado Springs, Col. 80934.

Illinois Turfgrass Foundation Golf Day, Indian Lakes Country Club, August 23.

Eastern Region, International Propagator's Society, Rutgers University, Rutgers, N.J., August 23-26.

Rhode Island Turfgrass Field Day, Turfgrass Research Farm, University of Rhode Island, Kingston, August 25.

International Symposium on Biological Control of Weeds, University of Florida, Gainesville, August 30-Sept. 2.

Tri-State Golf Course Superintendents Association Meeting, Jasper Municipal Golf Course, Inc., Sept. 7.

Northern Michigan Turfgrass Field Day, Traverse City Country Club, Sept. 8, contact Scott D. Eicher, department of Crop & Soil Sciences, Michigan State University, East Lansing, Mich. 48824.

Michigan State University Field Day, Traverse City, Sept. 9.

Oregon Association of Nurserymen, Annual Convention, Inn of the Seventh Mountain, Bend, Sept. 9-12.

Pacific Horticultural Trade Show, Anaheim Convention Center, California, Sept. 11-13.

California Landscape Contractor's Association, Inc., Pacific Horticultural Trade Show, Anaheim Convention Center, Sept. 11-13.

Nebraska Golf Course Superintendents Association Meeting, Mead Experimental Station, Mead, Sept. 13.

19th Annual Western Fertilizer and Pesticide Safety School, Sheraton Inn, Fresno, Calif., Sept. 13-14.

Golf Course Superintendents Association of America 50th Anniversary and Tournament, Sylvania Country Club, Toledo, Ohio, Sept. 13-15.

Third International Controlled Release Pesticide Symposium, University of Akron, Sept. 13-15.



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