

Chapter is planning a March workshop at the newly expanded Toro headquarters in Bloomington, MN. More details will be announced soon.

For information, contact Connie Rudolph: (651) 646-1679.

Florida Chapter #1: The Florida Chapter will participate in the South Florida Expo - IFAS in Fort Lauderdale in March. Also planned is an April 20 meeting at Palm Beach Gardens which will focus on construction.

For information, contact John Mascaro: (954) 341-3115.

Southern California Chapter: The So-Cal Chapter will host its "Season Opener" event 2 pm, April 24 at San Diego's Qualcomm Park. There will be a stadium tour, a tailgate party, and admission to the San Diego Padres game.

For more information, contact the chapter hotline: (888) 578-STMA.

Great Lakes Chapter: GLSTMA has two events in the planning stages: a tentatively planned workshop with the Cleveland Browns (date TBA), and an athletic field day and workshop at Ohio State University July 7.

The GLSTMA Web page is now active. Check it out: <http://members.tripod.com/~glstma>.

For information, contact Joe Zelinko: (800) 897-9714, or Boyd Montgomery: (419) 885-1982.

Mid-South Chapter: A joint meeting between the Mid-South Chapter and the new TVSTMA Chapter is in the planning stages for this spring with a mid-state location and the date to be announced.

For information, contact Jim Calhoun: (901) 755-1305, or Robert Bodi: (901) 383-2414.

Colorado Chapter: For information, call the 24-hour CSTMA Chapter hotline: (303) 346-8954.

Iowa Chapter: For information, contact Lori Westrum at the Turf Office: (515) 232-8222, or fax (515) 232-8228.

Midwest Chapter: The Midwest Chapter Board will meet March 24 at the Village of Lincolnshire Village Hall.

To provide input for this meeting, or for information on the Midwest Chapter, call the chapter hotline: (847) 622-3517.

Northern California Chapter: For information, contact Sal Genito, UC Davis: (530) 752-1691.

Chapters on the grow

A new chapter is taking shape in the Kansas City MO/KS area. A March 17 meeting is being planned.

For more information, contact Trevor Vance: (816) 504-4271, John Cundiff:

(816) 525-7600, Bill Tritt: (816) 941-4424, Jody Gill: (913) 681-4121, Gary Custis: (816) 468-6215, or Jay Sutton: (816) 795-8873.

Arizona Chapter: Thanks to those members of STMAAZ who helped with the STMA Annual Conference, especially to the hosts of the Seminar on Wheels and Category I visits. Special thanks to Grant Trenbeath, Bill Murphy, and Mike Varner, who filled double and triple slots.

For information, contact Bill Murphy,

City of Scottsdale Parks & Recreation Department: (602) 994-7954; or Kris Kircher, City of Chandler Parks & Recreation Department: (602) 786-2728.

Great Plains Chapter: For information, contact Mark Schimming, City of Wichita: (316) 337-9123.

Nevada Chapter: For information, contact Ibsen Dow: (702) 649-1551; or Alan Paulson, Clark County School District: (702) 799-8724.

STMA in Action

*Beam Clay® proudly announces
the 1998-1999 winners of the
13th Annual*

BEAM CLAY® BASEBALL DIAMOND of the YEAR AWARDS

PROFESSIONAL
CANAL PARK
Akron (OH) Aeros

COLLEGE
AURARIA HIGHER EDUCATION CENTER
Metropolitan State College (CO)

SCHOOL, MUNICIPAL, OR PARK
LANTANA SPORTS COMPLEX FIELD #1
Lantana, Florida

The BEAM CLAY® Baseball Diamond of the Year Awards are sponsored by BEAM CLAY®, the Sports Turf Manager's Association, and sportsTurf Magazine to honor excellence and professionalism in maintaining outstanding, safe, professional quality baseball diamonds. Winners are selected by a special awards committee of major league head groundskeepers.

This year's judges were (AL-East) Mike Williams, Tampa Bay Devil Rays; (AL-Central) Roger Bossard, Chicago White Sox; (NL-Central) Dutch McMullen, Cincinnati Reds; (NL-West) Grant Trenbeath, Arizona Diamondbacks.

For more information, call:



800/323-3875



800/247-BEAM
908/637-4191



847/427-9512

We'd like to show you the weeds PENDINGULUM® controls. But they never showed up.

The reason they never showed up? Because PENDINGULUM® herbicide is a highly effective preemergent turf herbicide. Compared to the competition, PENDINGULUM demonstrates a higher level of control across a broader spectrum of weed species. With PENDINGULUM, weeds won't ever see the light of day. For the PENDINGULUM herbicide distributor nearest you, call: 1-800-545-9525, Ext. 1676.



PENDINGULUM offers unsurpassed weed control								
Herbicide	Crabgrass	Goosegrass	Foxtail	Poa Annua	Oxalis	Spurge	Henbit	Chickweed
PENDINGULUM	■	■	■	●	■	●	■	■
Barricade ^a	■	●	●	●	▲	●	■	■
Dimension ^b	■	●	■	●	■	●	●	●
Team ^c	■	●	●	●	●	●	NR	NR
Ronstar ^d	●	■	NR	●	●	NR	NR	NR
Surflan ^c	■	■	■	●	▲	●	■	■

Level of control ● Medium ▲ Medium-High ■ High NR Not registered

^a™ Novartis ^b™ Rohm and Haas Co. ^c™ Dow AgroSciences ^d™ Rhône-Poulenc



® Registered Trademark, American Cyanamid Company © 1998 Always read and follow label directions. **The Power of Cyanamid Pendimethalin**

Pesticide Flip Charts (Turf)

Options. That's what turf management is all about. For every problem that can affect a turfgrass stand's health and/or appearance, the manager has many options that he or she can explore to cure it.

Such problems can be solved by using cultural, biological or chemical means. Of those three options, certainly chemical options are the fastest-working. But choosing the proper pesticide is not always fun or easy. To that end, *Landscape & Irrigation* magazine presents on the following pages a handy-dandy set of pesticide flip charts, in a format that is unique in the green industry.

With these charts, you can look up a problem—be it a weed, insect

or disease—and see what chemical controls are available on the market today.

The chemicals in these charts can be used for curative or preventive purposes. Some herbicides (pre-emergence with post-emergence action) and fungicides are considered both.

To use the charts most effectively, find the pest you wish to control in the left-hand column. Then match the numbers following that pest (in the "Control Options" column) with the list of chemical products on page 38.

All number lists are inclusive (e.g. 33-35 means pesticides numbered 33,34 and 35).

In the charts of pesticides, chemical names are given first, followed by trade names in parentheses. Among the insect- and disease-control products, boldface names indicate "Restricted Use" products that require commercial state pesticide application licenses to apply. Not all products are labeled for every state.

For full information on selected pesticides, consult either their labels or manufacturers' technical service representatives. For specific questions, you should consult your county extension agent (turf) and/or your state office of pesticide programs or environmental quality.

Get Serious With STMA Application for Membership

The Sports Turf Managers Association (STMA) is an organization of professionals representing all segments of the sports turf industry. Our members work to combine the science of growing grass and the art of maintaining sports turf to produce playing fields that are both safe and aesthetically pleasing.

STMA provides members with a variety of benefits, including: education through regional institutes and conferences; support for sports turf research; facilities tours; a national awards program; access to the STMA National Conference and Exhibition; complimentary subscriptions to *Sports Turf Manager* and *sportsTURF Magazine*; and much more.

If you're serious about the sports turf industry, then it's time to become a member of STMA. Join today!

Member Information

Name _____
Title _____
Employer _____
Type of Business _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____
E-mail Address _____
Signature _____
Referred by _____
(STTR)

Membership Category (please check one)

- | | |
|---|-------|
| <input type="checkbox"/> Professional sports turf facility manager | \$85 |
| <input type="checkbox"/> Four-year colleges and universities sports turf facility manager | \$85 |
| <input type="checkbox"/> Other schools, research, ext. agents, teaching | \$85 |
| <input type="checkbox"/> Parks and recreational sports turf facilities | \$85 |
| <input type="checkbox"/> Commercial (US or International) | \$195 |
| <input type="checkbox"/> Additional members from same company | \$50 |
| <input type="checkbox"/> Student (non-voting) | \$20 |
| <input type="checkbox"/> International (other than commercial)
(must be in US dollars) | \$85 |

Total amount enclosed \$ _____

Please enclose payment (check, money order, Master Card, Visa, Discover or American Express) and send to:
Sports Turf Managers Association, PO Box 3480, Omaha, NE 68103-0480

For more information, contact STMA Headquarters at 800/323-3875

"Promoting Better and Safer Sports Turf Areas"

INSECTS OF TURF AND THEIR CHEMICAL CONTROLS

INSTRUCTIONS FOR USING THIS SECTION

Insect pests of turf are listed below, in the left column. To find the control products that are labeled for a specific pest, match the numbers following the insect with the list of chemical products in the right column. All numbers are inclusive.

In the chart of chemical products, chemical names are given first, followed by trade names in parentheses. **Boldface names** indicate "Restricted Use" products that require commercial state pesticide application licenses to apply. Not all insecticides are labeled for every state, and different established grass species have varied tolerances.

For full information on insect control, consult either labels of the individual chemicals or technical service departments of the respective manufacturers. For specific questions, you should consult your county extension agent (turf) and/or your state office of pesticide programs or environmental quality.

INSECT	CONTROL OPTIONS
Aphid	1, 3, 4, 5, 10, 22, 23, 24, 25
Armyworm	1, 3-8, 10, 18, 21-24, 27
Bermudagrass mite	3, 5, 10, 11
Billbug	2-5, 8, 10, 13, 17, 18, 20-24, 26
Black turfgrass Aeteniuss	3, 8
Chinch bug	1-8, 10, 12, 13, 17, 21, 22, 25, 26
Clover mite	3, 6, 7, 10, 11, 22
Cutworm	1, 3-8, 10, 17, 18, 21-28
Darkling ground beetle	3, 25
Earwig	1-10, 17, 22, 24-26
European chafer	4
Fall armyworm	1, 3-5, 18, 21, 22, 25
Fire ant	1-5, 8-10, 15, 19, 21, 22, 25
Formula grass mite	3
Greenbug	1, 5, 24
Green June beetle	4, 22
Ground beetle	2, 25
Ground pearl	24
Hyperodes weevil	4-8, 10, 13, 18, 20-23, 25, 26
Japanese beetle	1, 2-5, 8, 22, 23, 25, 26
June beetle	4, 5, 22, 24, 25
Leathopper	1, 2-5, 10, 22-25
Mole cricket	1, 2-5, 8, 10, 13, 16, 17, 20-23, 25, 26, 28
Nematode	13, 14
Rhodesgrass scale	10
Sod webworm	1-8, 10, 12, 13, 17, 18, 21-23, 25-28
Spittlebug	4, 5, 10
White grub	2, 4-7, 10, 13, 17, 18, 20-23, 25, 26
Winter grain mite	5

KEY TO CONTROL PRODUCTS

(Restricted Use Pesticides in **boldface**)

- 1 = acephate (Acephate Pro 75; Orthene Turf, Tree and Ornamental; Pinpoint; Velocity)
- 2 = **bendiocarb (Turcam)**
- 3 = bifenthrin (Talstar)
- 4 = carbaryl (Carbaryl, Cutworm and Cricket Bait, Grubtox, Insecticide V, Fluid Insecticide, RegalFate, Sevin, 7 Carbaryl Insecticide)
- 5 = chlorpyrifos (Chlorpyrifos, Lawn Insect Granules, Mole Cricket Bait, Cidium, Dichloron 2000, Drexar Lawn Granules, Dursban, Insect and Grub Control, Insecticide III, Lawn and Ornamental Insecticide, One-Sect IV, Vos-Ban III)
- 6 = chlorpyrifos + DDVP (Dursban/Vapona, DV-One)
- 7 = chlorpyrifos + pyrethrin (Dichloron, IRC-III, Lo-Ban, L.O. Sect, Non-Scents, No Prisoners L.O.)
- 8 = cyfluthrin (Tempo)
- 9 = cypermethrin (Cynoff, Demon TC)
- 10 = diazinon (Diazinon, Evict, Lawn and Garden Insecticide, Knox Out)
- 11 = dicofol (Kelthane)
- 12 = ethion (Ethion)
- 13 = **ethoprop (Mocap)**
- 14 = **fenamiphos (Nemacur)**
- 15 = fenoxycarb (Award)
- 16 = fipronil (Chipco Choice)
- 17 = fonofos (Crusade, Mainstay)
- 18 = halofenozide (Mach 2)
- 19 = hydramethylnon (Amdro, Siege)
- 20 = imidacloprid (Merit)
- 21 = **isofenphos (Oftanol, Insecticide IV)**
- 22 = lambda-cyhalothrin (Battle, Scimitar)
- 23 = **lindane (Lindane)**
- 24 = malathion (Malathion)
- 25 = permethrin (Astro, Dragnet, Flee, Permethrin Turf and Ornamental, Perm-X)
- 26 = pyrethrin (Exciter)
- 27 = spinosad (Conserve)
- 28 = trichlorfon (Dylox, Grub Beater, Grub Control with Dylox, Insecticide VI, Larva-Lur, Proxol, Trichlorfon, White Grub and Sod Webworm Insecticide, White Grub Control)

DISEASES OF TURF AND THEIR CHEMICAL CONTROLS

INSTRUCTIONS FOR USING THIS SECTION

Diseases of turf are listed below, in the left column. To find the control products that are labeled for a specific fungus, match the numbers following the insect with the list of chemical products in the right column. All numbers are inclusive.

In the chart of chemical products, chemical names are given first, followed by trade names in parentheses. **Boldface names** indicate "Restricted Use" products that require commercial state pesticide application licenses to apply. Not all products labeled in all states, and different established grass species have varied tolerances.

For full information on disease control, consult either labels of the individual chemicals or technical service departments of the respective manufacturers. For specific questions, consult your county extension agent (turf) and/or your state office of pesticide programs or environmental quality.

DISEASE	CONTROL OPTIONS	KEY TO CONTROL PRODUCTS (Restricted Use Pesticides in boldface)
Algae	7, 17, 23	1 = anilazine (Dyrene)
Anthraxnose	2, 7-10, 12, 24-26, 28, 29	2 = azoxystrobin (Heritage)
Brown patch/Rhiz. blight/Pink patch	1, 2, 9, 16, 17, 19, 20-31	3 = benomyl (Benomyl)
Copper spot	1, 7-10, 12, 14, 17, 19, 24, 26, 29	4 = captan (Captan, Captec)
Coprinus snow mold	24	5 = chloroneb (Fungicide V, Teremec, Terraneb)
Curvularia	7, 8, 23, 24	6 = chloroneb + thiophanate-methyl (Fungicide IX)
Damping off	4, 11, 17, 18, 21, 30	7 = chlorothalonil (Chlorostar, Daconil 2787, Echo, Lite, Lawn Fungicide 2787, Manicure, Monterey Bravo, Turf Fungicide, Thaloniil)
Dollar spot	7, 9, 16, 17, 19, 20, 22-31	8 = chlorothalonil + fenarimol (Two-Some)
Downy mildew/Yellow tuft	15, 17, 18	9 = chlorothalonil + thiophanate-methyl (ConSyst)
Fairy ring	13, 23	10 = cyproconazole (Sentinel)
Fusarium blight	3, 8, 12, 16, 17, 21, 24, 29	11 = etridiazole (Koban, Terrazole)
Gaeumannomyces g. graminia	21, 24, 29	12 = fenarimol (Rubigan, Patchwork)
Gray leaf spot/Typhula blight	7-10, 21, 23, 24	13 = flutolanil (ProStar)
Gray snow mold	1, 2, 5-8, 10, 12, 13, 22, 27, 29, 31	14 = flutolanil + triadimefon (ProStar Plus)
Helminthosporium leaf spot	1, 4, 7-9, 17, 20, 22-26, 28, 31	15 = fosetyl al (Aliette, Prodigy)
Melting out	1, 2, 4, 7, 17, 19, 20, 25, 28, 31	16 = iprodione (Chipco 26019, Fungicide X)
Necrotic ring spot	2, 8, 10, 12, 16, 19, 22, 24	17 = mancozeb (Dithane, Fore, Formec, Mancozeb, Protect)
Pink snow mold/Fusarium patch	2, 3, 6, 8, 10, 12, 14, 16, 17, 20, 22, 24-29, 31	18 = metalaxyl (Pythium Control, Subdue Maxx)
Powdery mildew	8-10, 12, 14, 19, 22, 29	19 = myclobutanil (Eagle)
Pythium blight	2, 5, 6, 11, 15, 17, 18, 21, 23, 30	20 = PCNB (Defend, PCNB, Engage, Revere, Penstar, Terraclor, Turficide)
Red leaf spot	1, 9, 16, 22, 23	21 = propamocarb (Banol)
Red thread/Pink patch	2, 8-11, 12-14, 16, 17, 19, 22, 24, 26, 29, 31	22 = propiconazole (Banner Maxx)
Rust	1, 7, 8, 10, 17, 19, 22, 23, 26, 28, 29	23 = quarternary ammonium (Physan)
Slime mold	17	24 = thiophanate-methyl (Cleary's 3336, Cavalier, Fungo Flo, SysTec, Systemic Fungicide)
Smuts	3, 10, 12, 19, 21, 24, 29	25 = thiophanate-methyl + iprodione (Fluid Fungicide)
Southern blight/Sclerotium blight	3, 6, 10, 13, 14, 23, 29	26 = thiophanate-methyl + mancozeb (Duosan)
Spring dead spot	2, 8, 12, 19, 22, 24	27 = thiram (Spotrete, Lawn Disease Control, Thiram)
Summer patch	2, 8, 10, 12, 19, 22, 24, 29	28 = thiram + triadimefon (Fluid Fungicide II)
Take-all patch	2, 8, 12, 22, 24, 29	29 = triadimefon (Turf Fungicide with Bayleton, Accost, Bayleton, Granular Turf Fungicide, Fungicide VII, Fungi-Fighter, Lawn Fungicide Bayleton 1G, Turf Fungicide, Turf Fungicide Granules)
Zoysia patch/Rhizoctonia solani	2, 22, 24, 27, 29	30 = triadimefon + metalaxyl (Fluid Fungicide II)
		31 = vinclozolin (Curalan, Touche, Vortan)

WEEDS AND THEIR CHEMICAL CONTROLS

INSTRUCTIONS FOR USING THIS SECTION

Weeds are listed in two categories, "Broadleaf" and "Grassy." To find the control products that are labeled for a specific weed, match the numbers following the weed (in the "Control Options" column) with the list of chemical products on page 19. In the lists of broadleaf and grassy weeds, **boldface numbers** indicate a chemical that is labeled for pre-emergence control. No boldface indicates post-emergence control. All numbers are inclusive.

In the chart of chemical products on the next page, chemical names are given first, followed by trade names in parentheses. **Boldface names** indicate "Restricted Use" products that require commercial state pesticide application licenses to apply. Not all herbicides are labeled for every state, and different established grass species have varied tolerances.

For full information on weed control, consult either labels of the individual chemicals or technical service departments of the respective manufacturers. For specific questions, you should consult your county extension agent (turf) and/or your state office of pesticide programs or environmental quality.

BROADLEAF WEEDS	CONTROL OPTIONS	BROADLEAF WEEDS	CONTROL OPTIONS
Bindweed	8, 14-18, 23, 25, 36, 37 , 38-42, 59	Oxalis (woodsorrel)	5, 50, 53, 54
Black medic	15, 17-23, 25, 36, 36, 37 , 38-42, 59, 60	Parsley-plantain	2, 15, 23, 28, 36, 41, 45, 58
Carpetweed	4, 14-16, 23, 24, 25, 37-41, 45, 49, 50, 53, 54, 58	Pennycress	9, 14, 15, 25, 38, 40
Chickweed	2, 4, 11, 14-25, 28-30, 36-42, 45, 46, 49, 53, 54, 55, 58, 60	Pennywort	14-17, 19, 21, 36, 37, 39-42
Chicory	14-18, 20-23, 25, 39-41, 59	Plantain	11, 14-23, 25, 37-42, 59, 60
Clover	11, 14-23, 25, 30, 30, 36, 37 , 38-42, 45, 53, 58, 59, 60	Purslane	2, 4, 7, 8, 11, 14-22, 24-25, 28, 30, 37-42, 49, 53, 54, 58
Cocklebur	2, 2, 7-9, 14, 15, 17, 18, 23, 25, 38-41, 60	Ragweed	2, 7-9, 11, 14-22, 25, 37-42, 47, 49, 58, 59, 60
Cudweed	2, 8, 17, 25, 36, 36, 37, 53	Shepardspurse	2, 4, 6, 7, 9, 11, 14-18, 20-22, 25, 28, 37-41, 45, 49, 53, 58
Dandelion	11, 14-23, 25, 36, 36, 37 , 38-42, 59, 60	Sorrel	54, 55, 60
English daisy	15-17, 19, 21, 25, 39-41, 60	Speedwell	15-22, 25, 36, 37, 39-41, 55, 60
Evening primroses	8, 15, 17, 25, 36, 36, 53	Spurge	2, 8, 11, 15-24, 28, 37, 39-42, 45, 50, 53, 54, 58
Goatsbeard	14, 15, 38, 40	Spurweed	2, 4, 5, 15-25, 28, 37-42, 45, 49, 50, 53, 54, 59, 60
Ground ivy	14-23, 25, 39-42, 59, 60	Stinkweed	2, 23, 39-41, 45, 58, 60
Groundsel	4, 9, 11, 16, 37, 49, 58	Thistle	14, 15, 38
Hairy bittercress	28, 36, 36, 37, 49	Velvetleaf	2, 7, 8, 9, 11, 14-18, 20, 25, 37-42, 59, 60
Healall	14-22, 39-41	Veronica	2, 4, 7-9, 11, 14, 18, 25, 37, 39, 40, 49, 53
Henbit	2, 4, 6, 11, 14-18, 20-23, 25, 28, 36, 37, 39-42, 45, 49, 53, 54, 58, 60	Vetch	15, 37, 39-41
Jimsonweed	2, 7-9, 14-18, 25, 37-41	Violet	2, 14, 15, 17, 23, 25, 38, 40, 41, 59, 60
Knotweed	2, 4, 9, 11, 14-23, 25, 37-42, 45, 49, 53, 54	Virginia buttonweed	11, 15, 17, 23, 36, 40, 41, 59, 60
Kudzu	17, 25	Wild aster	2, 36, 50
Lambsquarters	2, 6-9, 11, 14-25, 37-42, 49, 50, 53, 54, 58, 59, 60	Wild buckwheat	14-17, 22, 37, 39-41
Lawn burweed	16, 36, 53, 58	Wild carrot	2, 7-9, 14, 15, 25, 60
Lespedeza	15, 16, 18, 20, 23, 28, 39, 41, 59, 60	Wild garlic	4, 11, 14-18, 20-23, 25, 37-41, 59, 60
Mallows	4, 11, 14-23, 25, 37, 39-41, 49, 60	Wild onion	11, 14-23, 25, 36, 39-41
Mustards	2, 4, 7-9, 11, 14-18, 23, 25, 37-41, 45, 49, 55, 60	Yarrow	11, 14, 16-22, 25, 36, 39-41
Nettles	14, 15, 18, 25, 37-40, 50	Yellow woodsorrel	11, 15-23, 25, 39-42

GRASSY WEEDS	CONTROL OPTIONS	GRASSY WEEDS	CONTROL OPTIONS
Annual bluegrass	2, 2-6, 24, 27, 28, 30, 30, 36, 37, 44, 45, 48, 49, 50, 53-55, 55, 58	Fall panicum	4, 6, 24, 31, 32, 49, 50, 53, 54, 56, 58
Annual ryegrass	4, 6, 11, 49, 56	Foxtail	2-6, 12, 24, 28, 30, 31, 32, 37, 46, 49, 50, 53, 54, 56, 57, 58
Bahiagrass	29, 46, 56	Goosegrass	1, 3-6, 12, 22, 24, 26, 28, 31, 32, 37, 45, 46, 48, 49, 50, 51, 53, 54, 56, 57, 58
Barnyardgrass	2-6, 12, 24, 28, 29, 30, 31, 32, 37, 46, 49, 50, 53, 54, 56-58	Johnsongrass	4, 24, 31, 32, 49, 53, 54, 56
Bermudagrass	30, 31, 32, 56	Nutsedge	7, 8, 12, 22, 29, 30, 35, 36, 38, 40, 44, 46
Bromes	46, 55, 55	Orchardgrass	55, 56
Carpetgrass	46, 55, 55	Perennial ryegrass	11, 36, 36, 55
Centipedegrass	46, 50	Quackgrass	32, 55, 56
Crabgrass	46	Tall fescue	11, 36, 36, 56
Dallisgrass	1, 2-6, 12, 22, 24, 28-30, 31, 32, 36, 37, 44, 46, 48-51, 53, 54, 56, 57, 58	Texas panicum	31, 32, 53, 54, 56
		Wild oats	2, 4, 49, 56

KEY TO CONTROL PRODUCTS

(Restricted Use Pesticides in boldface)

- 1 = asulam (Asulox)
- 2 = **atrazine (Atrazine)**
- 3 = benefin (Balan)
- 4 = benefin + oryzalin (XL)
- 5 = benefin + trifluralin (Team)
- 6 = bensulfide (Bensumec, Pre-San, Betasan, Weedgrass Preventer)
- 7 = bentazon (Basagran, Lescogran, Nutgrass Nihilator)
- 8 = **bentazon + atrazine (Prompt)**
- 9 = bromoxynil (Buctril)
- 10 = cacodylic acid (Montar)
- 11 = chlorsulfuron (TFC)
- 12 = calcium acid methanearsonate (CGK-89, HS-140)
- 13 = number not used
- 14 = 2,4-D (Dymec, Weedone LV4)
- 15 = 2,4-D + chlorypyralid + dicamba (Millennium Ultra)
- 16 = 2,4-D + dicamba (Four Power Plus, Lawn Weed Killer, Triple D Lawn Weed Killer, 81 Selective Weedkiller)
- 17 = 2,4-D + dichlorprop (Fluid Broadleaf Weed Control, Weedone DPC Ester, Weedone Amine)
- 18 = 2,4-D + dichlorprop + dicamba (Super Trimec, Brushmaster)
- 19 = 2,4-D + MCP (2D Amine + 2 MCP, 2 Plus 2, MCP-2-4D)
- 20 = 2,4-D + MCP + dicamba (Bentgrass Selective

- Weed Killer, Three-Way Selective, Brush-Cut, Brush Whacker, Granular Broadleaf Weed Killer, HS-130, MecAmine D, SNS-2000, Strike 3, Three-Way Lawn Weed Killer, Trimec, Triplet)
- 21 = 2,4-D + MCP + dichlorprop (Broadleaf Granular Herbicide, Three-Way Ester, Dissolve, Triamine, Jet-Spray 3-Way Weed Control)
- 22 = 2,4-D + MCP + MSMA + dicamba (Trimec Plus)
- 23 = 2,4-D + trichlorpy (Basamid, Turflon II Amine)
- 24 = DCPA (Dacthal, Super Dacthal 686, Turf & Ornamental Herbicide, Garden Turf & Ornamental Herbicide)
- 25 = dicamba (Vanquish, K-O-G Weed Control)
- 26 = **diclofop (Illoxan)**
- 27 = diquat (Aquatate, Reward, Vegetrol, Watrol, HNS-210)
- 28 = dithiopyr (Dimension)
- 29 = DSMA (DSMA, Methar 30)
- 30 = ethofumesate (Progress)
- 31 = fenoxaprop (Acclaim Extra)
- 32 = fluzifop-P-butyl (Fusilade II)
- 33 = glufosinate-ammonium (Finale)
- 34 = glyphosate (Hoedown, Quick Claim, Trailblazer, Roundup Pro, HNS-220, Avail)
- 35 = halosulfuron (Manage)
- 36 = imazaquin (Image)
- 37 = isoxaben (Gallery)
- 38 = MCPA (MCPA-4 Amine)
- 39 = MCPA + MCP + dicamba (Trimec Encore, Hat Trick, Tri-Power)
- 40 = MCPA + MCP + dichlorprop (Triamine II, Tri-

- Ester II, Turf Weeder)
- 41 = MCPA + triclopyr + dicamba (Cool Power, Horsepower)
- 42 = mecoprop/MCPP (Certi-CM, Chemweed 265, HS-167, Milpro 360, MCP-4 Amine, MCP-4K, Mecomec)
- 43 = methyl bromide (Brom-O-Gas, Terr-O-Gas, MB-98, MBC)
- 44 = metolachlor (Pennant)
- 45 = metribuzin (Sencor 75)
- 46 = MSMA (MSMA, Crabgrass Killer, Daconate, Drexar 530, Summer Crabicide, Super Crabgrass Killer, Weed Hoe, 120 Herbicide, 912 Herbicide)
- 47 = MSMA + cacodylic acid (Broadside, Monside)
- 48 = napropamide (Ornamental Herbicide 5G)
- 49 = oryzalin (Surflan, Weed Stopper)
- 50 = oxadiazon (Ronstar)
- 51 = oxadiazon + bensulfide (Goosegrass/Crabgrass Control)
- 53 = pendamethalin (Pendulum, Pre-M, Turf Weedgrass Control, Turf and Ornamental Weedgrass Control)
- 54 = prodiamine (Barricade)
- 55 = **pronamide (Kerb)**
- 56 = sethoxydim (Grass Getter, Vantage)
- 57 = siduron (Crabgrass Control, Crabgrass Preventer and Weed Killer, Tupersan, Super Tupersan)
- 58 = simazine (Princep, Simazine, Sim-Trol, Wynstar)
- 59 = triclopyr (Turfion Ester)
- 60 = triclopyr + clopyralid (Confront)

TURF PESTICIDES AND THEIR SUPPLIERS

Herbicides

120 (Riverside)	Finale (AgrEvo)	Reward (Zeneca)	(Monterey)	Defend (W.A. Cleary)
2 Plus 2 (ISK Biosciences)	Fluid Broadleaf Weed Control (Scotts)	Roundup (Monsanto)	Acephate Pro (Micro Flo)	Dithane (Rohm & Haas)
2,4-D (PBI/Gordon, Rhone-Poulenc, Riverdale, So. Ag Insecticides)	Four Power Plus (United Hort. Supply)	Rout (Scotts)	Amdro (American Cyanamid)	Duosan (Scotts)
2-D Amine + MCPP (Riverdale)	Fusilade II (Zeneca)	Sencor (Bayer)	Astro (FMC)	Dyrene (Bayer)
81 Selective Weedkiller (Riverdale)	Gallery (DowAgro)	Sim-Trol (Sostrom)	Battle (Lesco)	Eagle (Rohm & Haas)
912 (Riverside)	Fusilade II (Zeneca)	Sosiram	Carbaryl (Drexel)	Echo (Sostrom)
Acclaim Extra (AgrEvo)	Garden Turf & Ornamental Herbicide (Bonide)	SNS-2000 (Chemsearch)	Chipco Choice (Rhone-Poulenc)	Engage (United Hort. Supply)
Aquatate (Certified Labs)	Goosegrass/Crabgrass Control (Scotts)	Southern Weedgrass Control (Scotts)	Chipco Mocop (Rhone-Poulenc)	Fluid Fungicide I (Scotts)
Asulox (Rhone-Poulenc)	Granular Broadleaf Weed Killer (Lebanon)	St. Augustine Weed Control (Scotts)	Chlorpyrifos (Howard Johnson's, Micro Flo)	Fluid Fungicide II (Scotts)
Atrazine (Drexel, Lesco)	Hat Trick (United Hort. Supply)	Strike 3 (Terra)	Cidium (Check-Mark)	Fore (Rohm & Haas)
Riverside, So. Ag Insecticides, Sostrom, United Hort. Supply)	Super Crabgrass Killer (Rockland)	Super Dacthal 686 (Rockland)	Consense (DowAgro)	Formec (PBI/Gordon)
Balan (DowAgro, Lebanon, Lesco, Rockland, United Hort. Supply)	HNS-210 (Check-Mark)	Super Trimec (PBI/Gordon)	Crusade (Lesco, Zeneca)	Fungi-Fighter (Monterey)
Barricade (Novartis)	HNS-220 (Check-Mark)	Super Tupersan (Rockland)	Cutworm and Cricket Bait (So. Ag Insecticides)	Fungicide V (Scotts)
Basagran (BASF)	Hoedown (Chemsearch)	Team (DowAgro, Lebanon, Lesco, United Hort. Supply)	Cynoff (FMC)	Fungicide VII (Scotts)
Basamid (BASF)	Horsepower (Riverdale)	Terr-O-Gas (Great Lakes)	DC-One (Prentiss)	Fungicide IX (Scotts)
Bensumec (PBI/Gordon)	HS-130 (Check-Mark)	TFC (Lesco)	Demon (Zeneca)	Fungicide X (Scotts)
Bentgrass Selective Weed Killer (Lesco)	HS-140 (Check-Mark)	Three-Way (Lesco)	Diazinon (Bonide, Drexel, Howard Johnson's, Lesco, Micro Flo, Prentiss, Rockland, So. Ag Insecticides, SureCo, Terra, United Hort. Supply)	Fungo (Scotts)
Belasan (Bonide, Lebanon, United Hort. Supply)	Image (American Cyanamid)	Three-Way Lawn Weed Killer (Rockland)	Dichloron (Chemsearch)	Granular Turf Fungicide (Lesco)
Broadleaf Granular Herbicide (Lesco)	Jet Spray 3-Way Weed Control (Scotts)	Trail Blazer (Mantek)	Dragnet (FMC)	Heritage (United Hort. Supply, Zeneca)
Broadside Grass Getter (Monterey)	K-O-G Weed Control (Scotts)	Trex-San (Scotts)	Dursban (Bonide, Dow Agro, Lesco, Prentiss, Rockland, So. Ag Insecticides, SureCo, United Hort. Supply)	Koban (Scotts)
Brom-O-Gas (Great Lakes)	Kerb (Rohm & Haas)	Tri-Ester (Riverdale)	Dycarb (Scotts)	Lawn Disease Control (Bonide)
Brush Whacker (Mantek)	Kleen-Up (Bonide)	Tri-Power (Riverdale)	Ethion (FMC, Micro Flo)	Lawn Fungicide 2787 (Rockland)
Brush-Out (Certified Labs)	Knox Out (Cleary)	Triamine (Riverdale)	Exciter (Prentiss)	Lawn Fungicide Bayleton 1G (Howard Johnson's)
Brushmaster (PBI/Gordon)	Lawn Weed Killer (Bonide)	Trimec Plus (PBI/Gordon)	Flee (FMC)	Mancozeb (Bonide, Lesco)
Bucitril (Rhone-Poulenc)	Lescogran (Lesco)	Triple D Lawn Weed Killer (Rockland)	Fluid Insecticide (Scotts)	Manicure (Lesco)
Certi-CM (NCH)	MB-98 (Hendrix & Dale)	Triplet (Riverdale)	Grub Beater (Bonide)	Patchwork (Riverdale)
CGK-89 (Chemsearch)	MBC (Hendrix & Dale)	Tupersan (PBI/Gordon)	Grub Control with Dylax (Lebanon)	PCNB (W.A. Cleary)
Chemweed 265 (NCH)	MCPA-4 Amine (Riverdale)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Penstar (Scotts)
Chipco Ronstar (Rhone-Poulenc)	MCPP-2,4-D (W.A. Cleary)	Turf & Ornamental Herbicide (Bonide)	Grub Control with Dylax (Lebanon)	Prodigy (Lesco)
Confront (DowAgro)	MCPP-4 Amine (Riverdale)	Turf & Ornamental Herbicide (Bonide)	Grub Control with Dylax (Lebanon)	Prostar (AgrEvo)
Cool Power (Riverdale)	Mac Amine (United Hort. Supply)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Prostar Plus (AgrEvo)
Crabgrass Killer (Bonide)	Meamec (PBI/Gordon)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Protect (W.A. Cleary)
Crabgrass Preventer (United Hort. Supply)	Melhar (W.A. Cleary)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Pythium Control (Scotts)
Crabgrass Preventer and Weed Killer (Bonide)	Millennium Ultra (Riverdale)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Revere (Lesco)
Daconate (ISK Biosciences)	Milpro 360 (NCH)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Rubigan (DowAgro)
Dacthal (ISK Biosciences)	Monicide (Monterey)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Sentinel (Novartis)
Dimension (Best, Rohm & Haas)	Montar (Monterey)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Spotrete (W.A. Cleary)
Dissolve (Riverdale)	MSMA (Bonide, Lesco, United Hort. Supply)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Subdue Maxx (Novartis)
DMC Weed Control (Scotts)	Nutgrass Nihilator (Monterey)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	SysTec (Regal)
Drexar (Drexel)	Pendulum (American Cyanamid)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Systemic Fungicide (Scotts)
DSMA (Drexel, Riverside)	Pennant (Novartis)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Teramec (PBI/Gordon)
Envoy (Valent)	Pre-M (Lesco)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Terraneb (Kincaid)
	Pre-San (PBI/Gordon)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Thaloni (Terra)
	Princeps (Novartis)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Touche (Lesco)
	Prograss (AgrEvo)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Turf Fungicide (Lebanon)
	Prompt (BASF)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Turf Fungicide III (Scotts)
	Quick Claim (Certified Labs)	Turf & Ornamental Herbicide (Bonide)	Insect and Grub Control (Lebanon)	Turf Fungicide II (Scotts)

Insecticides

7 Carbaryl Insecticide

Fluid Fungicide I (Scotts)	Fluid Fungicide II (Scotts)	Fluid Fungicide III (Scotts)	Fore (Rohm & Haas)	Formec (PBI/Gordon)	Fungi-Fighter (Monterey)	Fungicide V (Scotts)	Fungicide VII (Scotts)	Fungicide IX (Scotts)	Fungicide X (Scotts)	Fungo (Scotts)	Granular Turf Fungicide (Lesco)	Heritage (United Hort. Supply, Zeneca)	Koban (Scotts)	Lawn Disease Control (Bonide)	Lawn Fungicide 2787 (Rockland)	Lawn Fungicide Bayleton 1G (Howard Johnson's)	Mancozeb (Bonide, Lesco)	Manicure (Lesco)	Patchwork (Riverdale)	PCNB (W.A. Cleary)	Penstar (Scotts)	Prodigy (Lesco)	Prostar (AgrEvo)	Prostar Plus (AgrEvo)	Protect (W.A. Cleary)	Pythium Control (Scotts)	Revere (Lesco)	Rubigan (DowAgro)	Sentinel (Novartis)	Spotrete (W.A. Cleary)	Subdue Maxx (Novartis)	SysTec (Regal)	Systemic Fungicide (Scotts)	Teramec (PBI/Gordon)	Terraneb (Kincaid)	Thaloni (Terra)	Touche (Lesco)	Turf Fungicide (Lebanon)	Turf Fungicide Granules (So. Ag Insecticides)	Turf Fungicide With Bayleton (Bonide, Rockland)	TwoSome (Lesco)	Vortian (Scotts)
----------------------------	-----------------------------	------------------------------	--------------------	---------------------	--------------------------	----------------------	------------------------	-----------------------	----------------------	----------------	---------------------------------	--	----------------	-------------------------------	--------------------------------	---	--------------------------	------------------	-----------------------	--------------------	------------------	-----------------	------------------	-----------------------	-----------------------	--------------------------	----------------	-------------------	---------------------	------------------------	------------------------	----------------	-----------------------------	----------------------	--------------------	-----------------	----------------	--------------------------	---	---	-----------------	------------------

Fungicides

Accost (United Hort. Supply)	Ailette (Monterey, Rhone-Poulenc, Riverside)	Banner Maxx (Novartis)	Banol (AgrEvo)	Bayleton (Bayer)	Benomy (Bonide)	Bravo (Monterey)	Captan (Bonide, Drexel, Micro Flo, SureCo)	Captec (Micro Flo)	Cavaller (Lesco)	Chipco 26019 (Rhone-Poulenc)	Chlorstar (Regal)	Cleary's 3336 (W.A. Cleary)	ConSyst (Regal)	Curalan (BASF)	Daconil 2787 (Zeneca)
------------------------------	--	------------------------	----------------	------------------	-----------------	------------------	--	--------------------	------------------	------------------------------	-------------------	-----------------------------	-----------------	----------------	-----------------------

FAX BLAST

The Horticulture Industry's new Fax Blast Program is a quick and cost-effective way to:

- Announce a new product or service.
- Sell an overstocked item.
- Remind your customers about a business or professional meeting.
- Induce your customers to attend a trade show.
- Promote a booth or social event.
- Inform customers about the favorable reviews your company has received.
- Send a publicity release.
- Survey your customers' needs.

Reach more than 35,000 magazine readers from *Irrigation Journal*, *Outdoor Power Equipment*, *Arbor Age*, *sportsTurf* and *Landscape & Irrigation* who buy and use the products and services that you offer. Target your marketing efforts by tailoring the list by the magazine readers' job title, type of business and by state. Find out how you can fax your one-page message to your best prospects by calling Jennifer Testa at 847/427-2039 or fax 847/427-2037 for more information.

For Everything Between the Lines

field protection
water removal
batter's box solutions
soil additives
grooming tools
standard bases
protective bases
double first bases
pitchers & home plates
base accessories
batting cages & tunnels
pitching mounds

practice mats
backstops
practice protection
field maintenance
dry line markers
field layout
paint & markers
paint stripes
fencing
scoreboards & racks
pads & nets
storage lockers

Call for a FREE catalog
1-800-747-5985
FAX: 608-836-0724



Beacon highlight of the month at www.ballfields.com
Batting Cage Design and Selection

Circle 123 on Inquiry Card

Do You
Need
Product
Info Faxed
To You
Now?

Use the
**ADAMS
FASTFAX
SYSTEM**

Simply dial our 800# and follow the simple instructions; when you hang up, the information you requested will be faxed immediately and directly to the fax number you entered.

NOW *One pass aerating and clean-up!*

With Goossen's new *Versa-Vac Aerator Attachment*

Turf can now be aerated and cores harvested in just one pass. With one single pass, Goossen's 50-inch aerator attachment

penetrates the soil with hydraulically controlled pressure followed by a 70-inch counter-rotating steel flail rake that pulverizes the cores allowing the thatch to be lifted into the trailer while the soil is left behind as a fine top dressing.

Immediate pick-up of cores eliminates the smashing that occurs when the cores are driven over by other methods used for harvesting. A finishing roller smooths the turf where the cores were extracted. The rake has steel knives or rubber fingers which are interchangeable depending upon the type of soil being treated.



Interchangeable decks are also available for mowing, sweeping and vacuuming. Let the Versa-Vac meet all your turf care needs.

**Goossen
INDUSTRIES**

P.O. Box 705 • Beatrice, NE 68310

Toll-Free: 1-800-228-6542 In NE: 402-228-4226 Fax: 402-223-2245

Call 1 (800) 817-1889 use **Fast Fax #1240399** and/or Circle 124 on Inquiry Card