

CONFERENCE SHOWCASE

Solar Irrigation Power



Photocomm, Inc., the #1 name in solar electricity, produces Solar Irrigation Power systems (SIPs) and Sundrop irrigation controllers. SIPs provide reliable AC power for operating conventional irrigation controllers and remote control valves. SIPs and Sundrop are ideal for retrofitting or automating irrigation systems where public utility is unavailable or cost prohibitive.

Photocomm, Inc. (800) 223-9580
7681 East Gray Road, Scottsdale, AZ 85260
Circle 125 on Postage Free Card

Infield Maintenance Machine



The Diamond Demon is the machine that will turn your difficult baseball/softball infields into level, smooth playing areas in short order. The Diamond Demon comes in four- and six-foot widths. All production models come with a tow package as standard equipment (not shown). Hundreds of satisfied users worldwide!

See us at Booth #319

Diamond Demon

4115 Southernaire, St. Louis, MO 63125

(314) 487-1753

Circle 146 on Postage Free Card

Irrigators



Kifco has recently extended their popular line of Water-Reel Irrigators. These self-traveling sprinklers are now available in five different sizes to ensure there is a Water-Reel to fit your needs. With adequate pressure it is possible to irrigate a football field with a single pass down the center. The machines are compact, easy to use, operate unattended and shut off automatically. Water-Reels combine outstanding features that come from more than 25 years of traveling sprinkler engineering.

Kifco, Inc. See us at Booth #133

P.O. Box 367, 600 S. Schrader Ave., Havana, IL 62644, (309) 543-4425, Fax (309) 543-4945
Circle 127 on Postage Free Card

Lightning Danger Detector



Now you can have 15 to 20 minutes advance warning of threatening lightning conditions with the Airborne Technology M-10 lightning detector. It provides the warning time necessary to stop play and shut down irrigation systems and other computerized equipment. Used by the PGA, USGA, hundreds of clubs and schools, the M-10 has been proven invaluable. It's also very cost effective. For free information package, **See us at Booth #212**

contact: **Airborne Technology Corp.**

6300 Oakton St., Morton Grove, IL 60053

(708) 966-9500, Fax (708) 967-1188

Circle 128 on Postage Free Card

LIDCO
P.O. BOX 1437, BRAWLEY, CA 92227 619-344-6261
LINDING MFG CO.
1875 W COUNTY ROAD C, ST. PAUL, MN 55113
612-633-3072
LINE WARD CORP
157 SENECA CREEK RD, BUFFALO, NY 14224
708-983-8850
LITTLE MFG, INC.
P.O. BOX 2341, ABILENE, TX 79604
LITTLE WONDER
1028 STREET RD, SOUTHAMPTON, PA 18966
215-357-5110
LOCKE MOWERS
2133 MOUNTAIN INDUSTRIAL BLVD, TUCKER, GA 30084
203-333-3157
LOFTS, INC.
CHIMNEY ROCK ROAD, BOUND BROOK, NJ 08805
201-356-8700
LOVELAND INDUSTRIES, INC.
P.O. BOX 1289, GREELEY, CO 80632 303-356-8920
LPS LABS
4647 HUGH HOWELL RD, TUCKER, GA 30084
800-241-8334
LUNDIN
P.O. BOX 2445, CHARLOTTE, NC 28247 704-523-2593

M

M-B COMPANY, INC.
1200 PARK ST, CHILTON, WI 53014 800-558-5800
MAIBO, INC.
RT 1 EAST STONE DRIVE, BOX 137, KINGSPORT, TN 37660
615-246-7715
MANHATTAN RYEGRASS GROWERS ASSOC
P.O. BOX 250, HUBBARD, OR 97032 503-651-2130
MARKERS, INC.
33597 PIN OAK PKWY, AVON LAKE, OH 44012
216-933-5927
MARUYAMA U.S., INC.
P.O. BOX 2167, REDMOND, WA 98073
MASTER MFG CO.
3250 GORMAN ST, SIOUX CITY, IA 51102 712-258-0108
MAT FACTORY, INC.
1378 EAST EDINGER, SANTA ANA, CA 92705
714-547-7623
MAUTZ PAINT CO.
939 E WASHINGTON AVE, MADISON, WI 53703
608-255-1661
MAZZEI INJECTOR CORP
11101 MOUNTAIN VIEW RD, BAKERSFIELD, CA
MC CORD AUTO SUPPLY, INC.
P.O. BOX 743, MONTICELLO, IN 47960 219-583-4136
MC KEE ENTERPRISES
19562 8TH STREET EAST, SONOMA, CA 95476
707-938-0349
MELAMINE CHEMICALS
P.O. BOX 748, DONALDSONVILLE, LA 70346
504-473-3121
MELEX USA, INC.
1221 FRONT ST, RALEIGH, NC 27609 919-828-7645
MELROE/BOBCAT
112 N UNIVERSITY DR, FARGO, ND 58102 701-293-3220
MENASHA CORP.
426 MONTGOMERY ST, WATERTOWN, WI 53094
METROTURF, INC.
6029 225TH ST WEST, FARMINGTON, MN 55024
612-463-3880
MICROJET IRRIGATION SYS
P.O. BOX 620591, ORLANDO, FL 32862 407-857-0011
MICRO-TRAK SYSTEMS, INC.
P.O. BOX 3699, MANKATO, MN 56002 800-328-9613
MID DAKOTA CORP.
P.O. BOX 728, GARRISON, ND 58540 800-327-7154
MIDDLESWORTH ENG & MFG CO.
P.O. BOX 165, GREENTOWN, IN 46936 317-628-2230
MILES, INC.
P.O. BOX 4913, KANSAS CITY, MO 64120 816-242-2000
MILLCREEK MFG.
112 S RAILROAD AVE, NEW HOLLAND, PA 17557
717-355-2446
MILLIKEN CHEMICALS
P.O. BOX 817, INMAN, SC 29340 803-472-9041
MILOGRAHITE
735 N WATER ST, MILWAUKEE, WI 53202 414-225-2266
MILTONA TURF PRODUCTS
P.O. BOX 164, MILTONA, MN 56354 218-943-2900
MISSOURI PAINT CO.
5818 TROOST, KANSAS CITY, MO 64110 800-426-0774
MITSUBISHI MOTORS/AMERICA
6400 W KATELLA AVE, CYPRESS, CA 90630 714-372-6000
MOBAY CHEMICALS/MILES
P.O. BOX 4913, KANSAS CITY, MO 64120 816-242-2333
MOISTURE SYSTEMS
P.O. BOX 574, GLASTONBURY, CT 06033 203-633-3934
MONSANTO CHEMICAL CO.
800 N LINDBERG BLVD, ST. LOUIS, MO 63166
314-694-1000

MORBARK INDUSTRIES, INC.
P.O. BOX 1000, WINN, MI 48896 517-866-2381
MOTOROLA IRRIGATION
3039 KILGORE RD, #190 RNCH CORDOVA, CA 95670
916-635-8884
MOWING MACHINE GRINDERS & REELS
P.O. BOX 1314, ANDALUSIA, AL 36420 205-222-2591
MR AIR SWEEPER, INC.
483 COLEMAN AVENUE, SAN JOSE, CA 95110
408-275-1246
MTD PRODUCTS CO.
P.O. BOX 36900, VALLEY CITY, OH 44280 216-225-2600
MULTI-TURF SPECIALISTS
6455-64TH ST, DELTA/BC, CA V4K 4E2 604-946-0446
MUSCO SPORTS LIGHTING, INC.
P.O. BOX 14, MUSCANTE, IA 52761 800-553-9680
MYERS, F.E.
400 ORANGE ST, ASHLAND, OH 44805 419-289-1144

N

NATL DIVERSIFIED SALES
3001 MISSION OAKS RD, CAMARILLO, CA 93012 805-389-6700
NATIONAL IRRIGATION SPECIALIST
1025 E KATELLA AVE, ANAHEIM, CA 92805 714-634-3336
NATL LIQUID FERTILIZER
3724 W 38TH STREET, CHICAGO, IL 60632
NATIONAL MOWER CO.
700 RAYMOND AVE, ST. PAUL, MN 55114 612-588-0741
NATIONAL RECREATIONAL SERV.
P.O. BOX 110003, NASHVILLE, TN 37211 615-832-6743
NATIONAL TURF SYSTEMS, INC.
10701 CORPORATE DR, ST. 140, STAFFORD, TX 77477
713-240-8873
NATL RESEARCH & CHEMICAL CO.
14439 SOUTH AVALON, GARDENA, CA 90248
213-515-1700
NATURAL STRUCTURES
P.O. BOX 799, SHERWOOD, OR 97140 503-625-2566
NATURE-GRO CORP.
P.O. BOX 3548, PACOIMA, CA 91333-3548 818-890-0203
NATURE SAFE
4221 ALEXANDRIA PIKE, COLD SPRING, KY 41076
800-252-4727
NEARY MFG, INC.
P.O. BOX 386, ELK RIVER, MN 55330 612-441-6015
NELSON IRRIGATION CORP.
RT 4 BOX 169, WALLA WALLA, WA 99362 509-525-7660
NEOGEN CORP
620 LESHER PLACE, LANSING, MI 48912 517-372-9200
NEPTUNE RESEARCH
2166 OLD OKEECHOBEE RD, #3, W PALM BEACH, FL 33409
407-683-6992
NETLON LTD
1100 ABERNATHY RD, SUITE 800, ATLANTA, GA 30328
404-393-9849
NEVCO
301 E HARRIS AVE, GREENVILLE, IL 62246 618-664-0360
NEWSTRIPE, INC.
1700 JASPER ST #F, AURORA, CO 80011 800-624-6706
NIBCO
P.O. BOX 1167, ELKHART, IN 46515 800-NIB-LINE
NICE'N GREEN
680 S PHELPS, ROMEVILLE, IL 60441 708-963-3328
NISSAN MOTOR CORP USA
P.O. BOX 191, GARDENA, CA 90247 213-532-3111
NOR AM CHEMICAL CO.
P.O. BOX 7495, WILMINGTON, DE 19803 302-575-2014
NORMARC SEED CO.
P.O. BOX 238, TANGENT, OR 97389 503-926-5801
NORTH AMERICAN GREEN
14649 HWY 41 NORHT, EVANSVILLE, IN 47711
812-867-6632
NORTH AMERICAN MICRON
P.O. BOX 1227, REEDLEY, CA 93654 209-638-4252
NORTH AMERICAN RECREATION
P.O. BOX 430, NEW HAVEN, CT 06513 800-243-5133
NORTHUP KING/JACKLIN SEED
P.O. BOX 959, MINNEAPOLIS, MN 55440 612-593-7333

O

OASIS CONTROL SYSTEMS
9310 DEERING AVE, CHATSWORTH, CA 91311
818-718-1003
OASIS WAY
4260 VENTURE CIRCLE, MERIDIAN, ID 83642 208-323-8283
OIL-DRI CORP
520 N MICHIGAN AVE, CHICAGO, IL 60611
OLATHE MFG CO
100 INDUSTRIAL PKWAY, INDUST AIRPORT, KS 66031
913-782-4396
OLSON IRRIGATION SYSTEMS
10910 WHEATLANDS AVE, SANTEE, CA 92071
619-562-3100
OLY-OLA SALES, INC.
148 W ST CHARLES RD, VILLA PARK, IL 60181
708-953-8533

ONAN
1400 73RD AVE, NE, MINNEAPOLIS, MN 55401
612-574-5000
OPTI-GRO
P.O. BOX 660196, DALLAS, TX 75266 214-438-0042
OREGON FINE FESCUE COM.
866 LANCASTER DR, SE, SALEN, OR 97301 503-585-1157
FAX 503-585-1292
ORIVAL, INC.
40 N. VAN BRUNT ST, ENGLEWOOD, NJ 07631 201-568-3311

P

P.E. SALES
3727 LINDEN SE, GRAND RAPIDS, MI 49508 800-748-0012
P.W. GILLIBRAND CO.
5131 TAPO CANYON ROAD, SIMI VALLEY, CA 93063
805-526-2195
PAR AIDE
296 PASCAL ST, ST. PAUL, MN 55104 612-646-7368
PAR EX
P.O. BOX 512 WINTER HAVEN, FL 33882 813-294-2567
PARKER SWEEPER
P.O. BOX 1728 SPRINGFIELD, OH 45501 513-323-4901
PARTAC PEAT CORP
KELSEY PARK, GREAT MEADOWS, NJ 07838
800-247-BEAM
PAT TURFGRASS SERVICES CO.
201 W 8TH ST, SUITE 840, PUEBLO, CO 81003
719-544-4511
PBI GORDON CORP.
P.O. BOX 4090/1217 W 12TH, KANSAS CITY, MO 64101
816-421-4070
PECOFF BROTHERS
RT 5 BOX 215R, ESCONDIDO, CA 92025 619-744-3120
PENNCROSS BENTGRASS GROWERS ASSOC.
P.O. BOX 250, HUBBARD, OR 97032 503-651-2130
PENNINGTON SEED, INC.
P.O. BOX 290, MADISON, GA 30650 404-342-1234
PENNWALT CORP.
3 PARKWAY, STE 619, PHILADELPHIA, PA 19102 215-587-7619
PEPCO EXTRUDED PRODUCTS
4870 W JACQUELYN, FRESNO, CA 93722-5207 209-275-3555
PERFECTION SPRINKLER CO.
P.O. BOX 1363, 2077 S STATE ST, ANN ARBOR, MI 48106
313-761-5110
PERLITE INSTITUTE, INC.
6268 JERICHO TNP, COMMACK, NY 11725 516-499-6384
PETERSON SEED
P.O. BOX 346, SAVAGE, MN 55378 612-445-2606
PHILLIPS FIBERS CORP.
P.O. BOX 66, GREENVILLE, SC 29602 803-242-6600
PHOTOCOMM, INC.
1941 DON LEE PLACE, ESCONDIDO, CA 92025
619-741-5690
PICKSEED WEST
P.O. BOX 888, TANGENT, OR 97389 503-926-8886
PIONEER MFG CO.
P.O. BOX 34085, CLEVELAND, OH 44134 216-749-3100
PIONEER PEAT, INC.
BOX 30003, MESA, AZ 85275 602-844-8865
PLANT MARVEL
371 E 16TH ST, CHICAGO HTS, IL 60411 708-757-7500
PLAYFIELD INDUSTRIES
P.O. BOX 814050, DALLAS, TX 75381 800-654-8873
PLAYWORLD SYSTEMS
P.O. BOX 227, NEW BERLIN, PA 17855 800-233-8404
POULAN/WEED EATER
5020 FLOURNEY-LUCAS RD, SHREVEPORT, LA 71129
318-687-0100
POWER TRIM CO.
6841 MARLIN CIRCLE, LA PALMA, CA 90623 714-523-8560
PRECISION PLUMBING PRODUCTS, INC.
7021 NE 79TH COURT, PORTLAND, OR 97218
503-256-4010
PRECISION SMALL ENGINE
2510 NW 16TH LANE, POMPAHO, BEACH, FL 33604
800-345-1960
PRESCRIPTION ATHLETIC TURF
44 MAC ARTHUR RD, PUEBLO, CO 81001 303-544-4511
PRESTO PRODUCTS
P.O. BOX 2399, APPLETON, WI 54913 414-739-9471
PRO DRAIN SYSTEMS
P.O. BOX 668 HIGHLAND, MI 48031 313-887-6657
PROGRESSIVE ELECTRONICS
325 SO EL DORADO, MESA, AZ 85202 602-996-2931
PROPRIETARY SEEDS, INC.
2882 HOWELL, PRAIRIE RD, NE, SALEM, OR 503-585-7033
PUMPING SYSTEMS
P.O. BOX 81453, DALLAS, TX 75381-4153 214-241-0725
PUTTERMAN & COMPANY
4834 SOUTH OAKLEY, CHICAGO, IL 60609 312-927-4120

Q

QQUEST SOFTWARE SYSTEMS
P.O. BOX 57983, MURRAY, UT 84157 800-733-8839
QUALITY INDUSTRIES
215 MECHANIC ST, HILLSDALE, MI 49242 517-439-1591

QUICK RAIN 7084 NW 50TH ST, MIAMI, FL 33166 305-592-4584	I	SANTA FE BAG 4950 E 49TH, VERNON, CA 90058 213-585-7225	M	SUPERIOR CONTROLS 24950 AVENUE KEARNY, VALENCIA, CA 91355 805-257-3533	I
R		SATOH TRACTORS P.O. BOX 5020, NEW YORK, NY 10022 212-935-8824	E	SUPERIOR PROD, INC. P.O. BOX 39048, BIRMINGHAM, AL 35208 205-324-6691	M
R G B LABORATORIES, INC. 814 E 16TH ST, KANSAS CITY, MO 64108 816-474-3342	C	SCAG POWER EQUIPMENT P.O. BOX 152, MAYVILLE, WI 53050 414-387-0100	E	SUPERTURF INTERNATIONAL 15301 DALLAS PKWY NORTH, DALLAS, TX 75248 214-851-7033	M
R&R PRODUCTS CO. 3334 E MILBER ST, TUCSON, AZ 85714 602-889-3593	E	SCOTTS-PROTURF SCOTTS LAWN RD, MARYSVILLE, OH 43040 513-644-0011	E,C,M,S	SUR-LINE TURF, INC. 19637 GORGAS ROAD, NORTHPORT, AL 35476 205-333-1776	M
RAIN BIRD (GOLF DIV) 145 N GRAND AVE, GLENDORA, CA 91740 818-914-7228	I	SEAMAN PARSONS 147 E BECHER ST, MILWAUKEE, WI 53207 414-769-8900	E	SWEESTER JENKINS EQUIP. 2810 BAKER RD, DEXTER, MI 48130 313-426-3961	E
RAINBOW IRRIGATION CONTROLS 1108 RIDGEWOOD AVE, HOLLY HILL, FL 32117 800-633-4625	I	SEED RESEARCH P.O. BOX 1416, CORVALLIS, OR 97339 503-757-2663	S	SYNTHETIC IND, CONSTR PRODUCTS 4019 INDUSTRY DRIVE, CHATTANOOGA, TN 37416	M
RAINMAN/ELECTRORACK 1443 S SUNKIST ST, ANAHEIM, CA 92806 714-776-5420	I	SELECTRIC, INC. I P.O. BOX 271, UMATILLA, OR 97882 503-922-4328	I	SYSTEMATIC IRRIG CONTROLS 3190 J AIRPORT LOOP DR, COSTA MESA, CA 92626	I
RAIN JET DIV HARIDE 27671 LA PAZ RD, LAGUNA NIGUEL, CA 92656 800-44-2734	E	SENNINGER IRRIGATION, INC. 6416 OLD WINTER GARDEN RD, ORLANDO, FL 32811	I	714-850-0996	
RAIN-O-MAT 12414 E WHITTIER BLVD, WHITTIER, CA 90602 213-693-2721	I	SHAWTOWN INDUSTRIES, INC. 350 EASY ST, UNIT 2, SIMI VALLEY, CA 93065	M	T	
RAINMASTER 4645-28 INDUSTRIAL ST, SIMI VALLEY, CA 93063 805-527-4498	I	SHINDAIWA, INC. P.O. BOX 1090, TUALATIN, OR 97062	E	T H RILEY MFG P.O. BOX 987, LEHIGH ACRES, FL 33936 813-369-7911	E
RAIN SAVER, INC. 1009 NORTH 9TH AVE, WALLA WALLA, WA 99362 509-522-2400	E	SIERRA CROP PROTECTION CO. 1001 YOSEMITE DR, MILPITAS, CA 95035 408-263-8080	E	T. CHRISTY ENTERPRISES 1207 W STRUCK AVE, UNIT E, ORANGE, CA 92667	I
RANSOMES, INC. P.O. BOX 633, ELM GROVE, WI 53122 414-699-2000	E	SIMPLICITY MFG. P.O. BOX 26930, TAMARAC, FL 33320 3-5-652-4741	C,M	800-BLU-GLUE	
RCO PARTS 1064 SERPENTINE LN., PLEASANTON, CA 94566	I	SISIS EQUIP LTD. HULLEY RD, MACCLESFIELD, CHES SK10 2LZ ENGLAND	E	TANAKA (USA) CO LTD. 22121 CRYSTAL BLVD, BOTHELL, WA 98021 206-481-2000	E
415-484-0382		805-686-2730		TANDEM PRODUCTS, INC. 520 INDUSTRIAL DR, BLOOMING PRAIRIE, MN 55917	E,M
READ CORP. 25 WAREHAM ST, MIDDLEBORO, MA 02346 800-992-0148	E	SMITHCO, INC. 11 WEST AVE, WAYNE, PA 19087 215-688-4009	E	800-533-0509	
REEF INDUSTRIES P.O. BOX 33248 HOUSTON, TX 77233 713-943-0070	M	SMOOTHIE, INC. P.O. BOX 26930, TAMARAC, FL 33320 305-652-4741	E	TARMAC P.O. BOX 510, INDIO, CA 92201 619-775-8200	M
REELSHARP USA P.O. BOX 956, DARIEN, CT 06820 203-838-0656	E	SNAPPER POWER EQUIPMENT P.O. BOX 777, MC DONOUGH, GA 30253 404-957-9141	E	TARP MACHINE 11609 CLARIDON TROY RD, CHARDON, OH 44024	E
REEMAY P.O. BOX 511, OLD HICKORY, TN 37138 615-847-7143	M	SNOW MFG, INC. 11782 W. JENSEN AVE, KERNAN, CA 93630 209-846-7432	E	TAYLOR-DUNN P.O. BOX 4242, ANAHEIM, CA 92803 714-956-4040	E
REGAL CHEMICAL CO. 600 BRANCH RD, ALPHARETTA, GA 30201 404-475-4837	C,M	SOIL SEAL CORP. 3015 SUPPLY AVE, LOS ANGELES, CA 90040 213-481-7185	E	TECTONICS 12501 WELD COUNTY RD, #13, LONGMONT, CO 80504	M
REINCO P.O. BOX 512, PLAINFIELD, NJ 07061 800-526-7687	E,M	SOLATROL 11300 SORRENTO VALLEY RD, SAN DIEGO, CA 92121	M	303-444-7444	
RELIABLE SEATING 202 W CAMPBELL AVE, GENEVA, AL 36340 205-684-6575	E	619-453-7447	I	TECUMSEH PRODUCTS 900 NORTH ST, GRAFTON, WI 53024 414-377-2700	S
REMOTE CONTROL TECHNOLOGY 2635 151ST PLACE NE, REDMOND, WA 98052	I	SOLO, INC. 5100 CHESTNUT AVE, NEWPORT NEWS, VA 23605	E	TEE-2-GREEN CORP. P.O. BOX 250, HUBBARD, OR 97032 800-547-0255,	
206-885-2141		804-245-4228		503-651-2130, FAX 503-651-2351	
REUTER-STOKES 465 DOBBIE DR, ONTARIO, CA N1R5X9	E	SOLUS SYSTEMS, INC. 4000 KRUSE WAY PL BLDG, 2-285 LAKE OSWEGO, OR	E	TELEDYNE PRINCETON 995 W WALNUT ST CANAL, WINCHEST, OH 43110 800-331-5851	E
RHONE POULENC P.O. BOX 12014 ALEXANDER DR, RES TRI PK, NC 27709	C	503-635-3966		TENNANT MAINTENANCE CO. 701 N LILAC DR, MINNEAPOLIS, MN 55440 612-540-1229	E
919-549-2341		SOUTHERN ALUMINUM P.O. BOX 884, MAGNOLIA, AR 71753 800-221-0408	E	TERRACARE P.O. BOX 506, PARDEEVILLE, WI 53954 608-429-3402	E,M
RICHDEL/GARDEN AMERICA 788 FAIRVIEW DRIVE, CARSON CITY, NV 89701	I	SOUTHERN BLEACHER CO. P.O. BOX ONE, GRAHAM, TX 76046 800-433-0912	E	TERRAIN VEHICLES 221 MITCHELL CT, ADDISON, IL 60101 312-953-8747	E
702-882-6786		SOUTHERN TURF NURSERIES P.O. BOX 667, NORCROSS, GA 30091 800-841-6413	C,M	TFS SYSTEMS P.O. BOX 710038, 8733 MAGNOLIA #100, SANTEE, CA	I
RICHWAY INDUSTRIES P.O. BOX 508, JANESVILLE, IA 50647 319-987-2976	C	SPEARS MFG CO. P.O. BOX 4428, SYLMAR, CA 91342 818-364-1611	I	CA 92071-0038 619-449-6408	
RINGER CORP 9959 VALLEY VIEW RD, MINNEAPOLIS, MN 55344	C,M	SPORT SEATING CO, INC. P.O. BOX 449, 1540 CHESTNUT ST, EMMAUS, PA 18049	E	THAYER IND, INC. P.O. BOX 1849, DUNDEE, FL 33838 813-439-3667	I
612-941-4180		800-345-3141		THE ANDERSONS P.O. BOX 119, MAUMEE, OH 43537 419-893-5050	C
RIVERDALE CHEMICAL CO. 425 WEST 194 ST, GLENWOOD, IL 60425-1584	C	SPORTC INTERNATIONAL 1491 SHERIDAN DRIVE, KENMORE, NY 14217 800-835-0033	M	THE TYE COMPANY BOX 218, LOCKNEY, TX 79241 806-652-3367	E
708-754-3330		SPORTSFIELD, INC. P.O. BOX 615, BLUE ISLAND, IL 60406 708-371-0917	M	THERMO-FOGGER CO. 1893 INDUSTRIAL DRIVE, LIBERTYVILLE, IL 60048	E
ROBBINS, INC. 4777 EASTERN AVE, CINCINNATI, OH 45226	M	SPARYING DEVICES P.O. BOX 3107, VISALIA, CA 93278 209-651-1306	E	THOMPSON MFG CO. 4832 CHINO AVE, CHINO, CA 91710 714-591-4851	I
513-871-8988		SPYDER, INC. HWY I-10 & MENGE AVE, PASS CHRISTIAN, MS 39571	E	TMI, INC. 4000 KRUSE WAY PLACE BLDG 2 SUITE 120,	I
ROBERTS SEED CO. P.O. BOX 206, TANGENT, OR 97389 503-926-8891	S	800-231-5916		LAKE OSWEGO, OR 97035 503-635-3966	
ROHM & HAAS INDEPENDENCE MALL WEST, PHILADELPHIA, PA 19105	I	SPYKER SPREADER WORKS P.O. DRAWER 210, N MANCHESTER, IN 46962	E	TOMARK SPORTS, INC. P.O. BOX 1088, CORONA, CA 91718 714-371-1844	E,M
215-592-3000		219-982-8105		TORO COMPANY 8111 LYNDALE AVE SO, MINNEAPOLIS, MN 55420	E,M
RONK ELECTRICAL P.O. BOX 160, NOKOMIS, IL 62075 708-729-2300	C	STABILIZER, INC. 4832 E INDIAN SCHOOL, PHOENIX, AZ 85018 602-952-8009	M	612-887-8805	
ROOTS, INC. 25 SCIENCE PARK, NEW HAVEN, CT 06511 800-342-6173	E	STACKHOUSE ATHLETIC EQUIP P.O. BOX 12276, SALEM, OR 97309 503-363-1840	E	TORO IRRIGATION 5825 JASMINE ST, RIVERSIDE, CA 92502 714-688-9221	I
ROSEMAN MOWER 2300 CHESTNUT, GLENVIEW, IL 60025 708-729-2300	E	STADIUMS UNLTD, INC. P.O. BOX 627, GRINNELL, IA 50112 515-236-6535	E	TRAIL MATE, INC. 2151 TRAILMATE DR, SARASOTA, FL 34243 800-777-1034	E
ROUSSEAU, INC. 8433 MID-COUNTY, INDUST DR, ST. LOUIS, MO 63114	E	STANDARD GOLF 220 E 4TH ST, CEDAR FALLS, IA 50613 319-266-2638	M	TRICKLE SOAK SYSTEMS 8733 MAGNOLIA STE 100, SANTEE, CA 92071	I
314-426-7377		STANDARD SAND & SILICA P.O. BOX 35, DAVENPORT, FL 33837 813-422-1171	M	619-449-6408	
ROYER INDUSTRIES, INC. 158 PRINGLE ST, KINGSTON, PA 18704 717-287-9624	E	STAR CITY FABRICATION 1101 TOWN RD, MONTEVIDEO, MN 56265 612-269-5574	E	TRIDENT MOTORS 1771 MOLER RD, COLUMBUS, OH 43207 614-445-9623	E
RUBBER PRODUCTS, INC. 4521 W. CREST AVE, TAMPA, FL 33614 813-870-0390	M	STARSTREAM/TRUE DISTANCE 9800 RICHMOND #300, HOUSTON, TX 77402 713-781-0781	M	TRU-PITCH, INC. P.O. BOX 1728, PINELLAS PARK, FL 34290 813-577-9701	M
S		STEINER TURF EQUIPMENT P.O. BOX 85, ORRVILLE, OH 44667 216-683-0055	E	TRUFLEX 1760 REVERE BEACH, PKWY, EVERETT, MA 02149	M
S&S SEEDS P.O. BOX 4093, SAN MARCOS, CA 92069 619-756-1347	S	STIHL, INC. 536 VIKING DR, VIRGINIA BEACH, VA 23452 804-486-8444	E	800-225-3534	
SAFWAY STEEL PRODUCTS P.O. BOX 1991, MILWAUKEE, WI 53201	E	STOCKHAUSEN 2408 DOYLE STREET, GREENSBORO, NC 27406 919-333-3521	S	TRUSCO MFG CO. 398 NE 38TH STREET, FT LAUDERDALE, FL 33334	E
SALCO PRODUCTS, INC. 4463 W ROSCRANS, HAWTHORNE, CA 90250	I	STOVER SEED CO. 1415 E 6TH BOX 21448, LOS ANGELES, CA 90021	M,S	800-327-8859	
213-973-2400		213-626-9668		TSM COMPANY P.O. BOX 837, BRYTE, CA 95605 916-372-8531	I
SALSCO 105 SCHOOL HOUSE RD, CHESHIRE, CT 06410	E,M	SUBMATIC IRRIGATION SYSTEMS P.O. BOX 246, LUBBOCK, TX 79408 806-747-9000	I	TUFFLIGHT TRACK CORP. 9319 E HARRY, WITCHITA, KS 67207 800-835-0047	M
203-271-1682		SUNBELT SEEDS, INC. 5172 INDIAN TRAIL, NORCROSS, GA 30093 404-448-9932	M,S	TURF DRAINAGE CO. P.O. BOX 702, MARRERO, LA 70073 504-340-3930	I
SANDERS HYDROSEEDING 1306 E POMONA ST, SANTA ANA, CA 92705 714-973-TURF	C			TURF LIZER, INC. 3875 IDAHO AVE N, MINNEAPOLIS, MN 55427	E
SANDOZ CROP PROTECTION 341 E OHIO ST, CHICAGO, IL 60611 312-625-2535				612-537-7241	

CONFERENCE SHOWCASE

Sports Surface Supplies



Used by over 75 Pro Baseball teams, including 1992 World Series Champions, the Toronto Blue Jays! Your "one-stop source" for America's finest sports surfaces and supplies including Beam Clay®, Terra-Green®, Diamond Dry®, Partac®, and much more. Distribution centers in the East, West, South, and Midwest! For our current 60-page package of instructions and information, contact:

Partac Peat Corporation (Beam Clay®)

Kelsey Park, Great Meadows, NJ, 07838

(800)-247-BEAM, (908)-637-4191

Circle 129 on Postage Free Card

The Bannerman Turf-Topper



This is the original big capacity, precision-built sportsfield top-dresser. This machine has been performing successfully all over North America for over seven years. And it's still the only one that can make these claims. When equipped with 19-inch Pussy-Foot tires with up to three-yard load capacity maintains floatation pressure of 10-15 psi. Trouble-free self-tracking conveyor floor. Special "no-chatter" P.T.O. shaft for shorter turns. Equipped with portable, tractor-mounted hand brake for safety and convenience. Enclosed contra-rotating spreader cylinder for precision and speed.

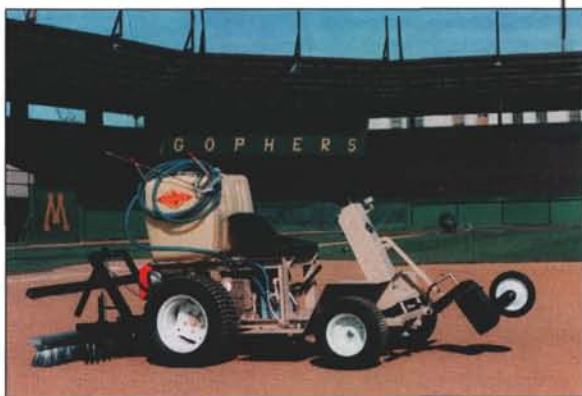
Gordon Bannerman Limited

41 Kelfield Street, Rexdale, Ontario, Canada M9W

5A3, (416) 274-7875, Fax (416) 247-6540

Circle 130 on Postage Free Card

Athletic Field Maintainer™ (AFM)



AFM stripes, sprays, and grooms, saving on maintenance time and materials. AFM can stripe several football fields without the need to refill; level and groom athletic fields with a heavy-duty harrow and broom or dragmat; and spray chemicals for weed and insect control. It can also pull a utility trailer or other accessories.

KROMER CO.

2365 Commerce Blvd., Mound, MN 55365-1425,

(800) 373-0337

See you at the Athletic Director's Show Booth 205

Circle 131 on Postage Free Card

Turfgrids



"Tough Stuff for Sports Turf" Sun Devil Stadium is the home field for the Phoenix Cardinals and the Arizona State Sun Devils and considered one of the best natural playing surfaces in the NFL and Pac 10. It was reconstructed this past spring with TurfGrids. The TurfGrid system is patented, simple, logical and long overdue. It combines synthetic fibers into the natural grass field and increases the sheer strength of the playing surface by 100%. This means sure footing and safety with less divots and injuries...just what good teams expect from their playing surface.

Stabilizer, Inc.

4832 East Indian School Road, Phoenix, AZ 85018, (602)

952-8009, (800) 336-2468, Fax (602) 852-0718

Circle 132 on Postage Free Card

CONFERENCE SHOWCASE

Debris Blower

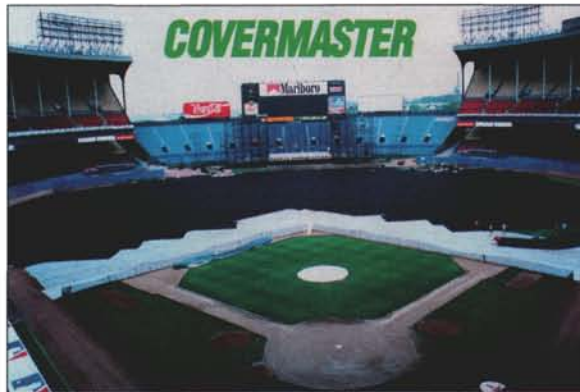


New from Goossen Industries is a debris blower for clearing leaves or other light debris from large areas. A 27-inch diameter impeller rotating at 1,620 rpm creates a wind velocity powerful enough to clean your grounds in a short period of time. A convenient bidirectional spout lets you adjust the direction of discharge from your tractor seat. The Goossen Debris Blower can be powered by any tractor with a 540 PTO drive and attaches to a standard three-point hook-up. Make your grounds clean-up chores a breeze with the new Goossen Debris Blower.

Goossen Industries & Construction

925 West Court St., P.O. Box 705, Beatrice, NE 68310,
(402) 228-4226, (800) 228-6542, Fax (402) 223-2245
Circle 133 on Postage Free Card

Enkamat Flatback Natural Turf Cover



A key factor in staging concerts is turf protection. Today's answer is Covermaster's Enkamat Flatback. Its open mesh, geomatrix design allows turf to breathe and its tightly woven flat top can withstand a crowd of thousands. Revolutionary, lightweight, wide width rolls, easy to handle. It's another example of Covermaster's resourcefulness in providing solutions to turf protection needs. Call us for details.

Covermaster, Inc.

100 Westmore Dr. 11-D, Rexdale, Ont. M9V 5C3,
(800) 387-5808, (416) 745-1811, Fax (416) 74-COVER
Circle 134 on Postage Free Card

Non-Clogging Pump



The Diamond Pump is a durable, non-clogging hand pump which easily removes 18-20 gallons of water per minute from dirt infields, sand traps, ditches. Made of tough ABS and PVC, a six-inch aluminum disc prevents mud from being drawn directly into the pump. Absolutely will not clog.

See us at Booth #109

Kuranda USA

2014 Renard Court, Units E, Annapolis, MD 21401,
(800) 752-5308, Fax (410) 266-3944
Circle 135 on Postage Free Card

Sports & Field Maintenance Equipment



Everything you need for equipping and maintaining baseball, softball, football, and soccer fields. Items include Soft Touch and Stay Down "progressive release" bases, plates, batting cages and protectors, and ball & bat racks. Field maintenance items include Diamond Dry, Sparkle, Turface, drags, harrows, paint and dry line machines, batter's box mats, and water removal machines.

Call for a free 1993 catalogue. See us at Booth #312

Beacon Sports Products, Inc.

P.O. Box 44115
Madison, WI 53744-4115
(800) 747-5985
Circle 136 on Postage Free Card



TURF MERCHANTS
33390 TANGENT LOOP, TANGENT, OR 97389
800-421-1735
TURF-SEED, INC.
P.O. BOX 250 HUBBARD, OR 97032 800-247-6910, 503-651-2130,
FAX 503-651-2351
TURF SPECIALISTS CORP.
444 ST. JAMES ST, HOLBROOK, NY 11741 516-981-1118
TURF-TEC INTERNATIONAL
4740 NE 12TH AVE, OVERLAND PARK, FL 33334 305-938-7477,
800-258-7477
TURFCO
3456 N. WASHINGTON AVE, MINNEAPOLIS, MN 55412
612-588-0741
TURFGRASS COLORANTS
8440 FOUNTAIN AVE, HOLLYWOOD, CA 90069
213-650-9942
TY-CROP TURF EQUIPMENT
48945 YALE RD EAST, CANADA V2P 6H4 206-354-7578

U

U.S. GAMES
P.O. BOX 360874, MELBOURNE, FL 32936 800-327-5484
UNDERGROUND IRRIG. SYSTEM, INC.
6732 W 153RD, OVERLAND PARK, KS 66223 913-897-6200
UNIMIN CORP.
P.O. BOX 651, EMMETT, ID 83617 208-365-7153
UNIROYAL CHEMICAL
MIDDLEBURY, CT 06749 203-573-3888
UNITED AGRI PRODUCTS
P.O. BOX 1467, FREMONT, NE 68025 402-727-8689
UNIVERSAL SPORTS LIGHTING, INC.
BOX 218 LINCOLN, IL 62656 217-732-3200
UNVERFERTH MFG CO.
P.O. BOX 357, KALIDA, OH 45853
US GYPSUM CO.
1010 S WACKER DRIVE, CHICAGO, IL 60606 312-321-5823
U.S. SILICA
P.O. BOX 98, KOSSE, TX 76653 817-375-2226

V

VALCON IRRIGATION
10837 CENTRAL AVE, S EL MONTE, CA 91733 818-444-5466
VALENT USA CORP.
P.O. BOX 8025, WALNUT CREEK, CA 94596-8025 415-256-2700
VALLEY SAND & GRAVEL
84749 SEARLES, TRONA, CA 93562 619-372-4944

M,S

M,S

E

E,I

E

M

E

E

I

M

C

C

E

E

M

M

I

C

M

VALLEY VIEW SPECIALTIES
13834 S KOSTNER, CRESTWOOD, IL 60445 708-597-0885
VALMONT INDUSTRIES, INC.
HWY 275, VALLEY, NE 68064 402-359-2201
VANDERMOLLEN CORP.
119 DORSA AVE, LIVINGSTON, NJ 07039 201-992-8506
VAUGHANS SEED COMPANY
5300 KATRINE AVE, DOWNERS GROVE, IL 60515-4095
708-969-6300
VEGAS ROCK
9555 LAS VEGAS BLVD S., LAS VEGAS, NV 89123 702-791-7625
VERMEER
NEW SHARON ROAD, PELLA, IA 50219 800-274-2347
VERTI-DRAIN USA
415 N WASHINGTON AVE, SCRANTON, PA 18503
717-961-6120
VIGORO INDUSTRIES, INC.
2007 W HWY 50, FARVIEW HGHTS, IL 62208 618-624-5522,
P.O. BOX 512 WINTER HAVEN, FL 33882 813-294-2567
VU FLOW FILTERS
645 CINNAMON COURT, SATELLITE BEACH, FL 32937
305-723-5171

W

WALKER MFG CO
1839 HARMONY RD, FT COLLINS, CO 80525 303-226-1514
WALLA WALLA SPRINKLER CO
RT 4 BOX 169, WALLA WALLA, WA 99362 509-525-7660
WARRENS SPECIAL PRODUCTS
P.O. BOX 459, SUISUN CITY, CA 94585 800-828-8873
WARRENS TURF NURSERY
7502 SO MAIN STREET, CRYSTAL LAKE, IL 60014
815-455-5100
WATER HOG, INC.
10 STATE ST, WOBURN, MA 01201 617-932-4192
WATER CONSERVATION SYSTEMS
141 SO SPRING ST, CLAREMONT, CA 91711
714-621-5805
WATERTRONICS
13400A WATERTOWN PLANK RD, ELM GROVE, WI 53122
WEATHER-MATIC/TELSCO
P.O. BOX 18205, DALLAS, TX 75218 214-278-6131
WESTERN POLYACRYLAMIDE, INC.
P.O. BOX 790, CASTLE ROCK, CO 80104 303-688-3814
WESTHEFFER CO.
1235 N 3RD, LAWRENCE, KS 66044 800-362-3110
WEYERHAEUSER
EF-4, TACOMA, WA 98477 800-443-9179

M

E

E

S

M

E

E

C

C

I

I

E

I

I,M

C,S

E

I

I

I

C,M

E

M

WHEEL HORSE
515 W IRELAND RD, SOUTH BEND, IN 46614
WILLAMETTE SEED CO.
P.O. BOX 791, ALBANY, OR 97321 503-926-8883
WILDSEED, INC.
P.O. BOX 308, EAGLE LAKE, TX 77434 800-848-0078
WILKINS DRAINAGE
25443 RYE CANYON RD, VALENCIA, CA 91355
805-257-0955
WILKINS REGULATOR DIV
1747 COMMERCE WAY, PASO ROBLES, CA 93446
805-238-7100
WILLSEY-D
P.O. BOX 460, MAPLE HILL, KS 66507 913-663-2228
WILSON & GEO MEYER & CO.
270 LAWRENCE AVE, S SAN FRANCISCO, CA 94080
415-871-1770
WILT-PRUF PRODUCTS
P.O. BOX 4280, GREENWICH, CT 06830 203-531-4740
WIND & SHADE SCREENS
P.O. BOX 681, SOLANO BEACH, CA 92075 619-481-6064
WINDSCREENS WEST, INC.
8200 E PACIFIC PL #108, DENVER, CO 80231 303-368-8600
WOODGRAPHICS
1427 MECHANICAL BLVD, GARNER, NC 27529
919-772-8800
WOODS DIV HESSTON CORP.
HIGHWAY 2 SOUTH, OREGON, IL 61061 815-732-2141
WOLFE METAL FAB CO.
2555 LEECHBURG RD, LOWER BURRELL, PA 15068
WORKSAVER, INC.
P.O. BOX 100, LITCHFIELD, IL 62056 217-324-5973

Y-Z

YAMAHA MOTOR CORP.
6620 ORANGETHORPE, BUENA PARK, CA 90622
YANKEE TURF PRODUCTS
200 SHAW RD, N BRANFORD, CT 06471 800-432-RAKE
YANMAR
478 COUNTRY CLUB DR, BENSENVILLE, IL 60106
708-564-9280
YAZOO MFG CO.
3650 BAY ST, JACKSON, MS 39216 601-366-6421
YEAGER FORD TRACTOR
P.O. BOX 545, HILLSBORO, OR 97123 503-648-8506
ZAJAC PERFORMANCE SEEDS
33 SICOMAC ROAD, NORTH HALEDON, NJ 07508
201-423-1660

Rugged! Compact Design! TRENCHER

MODEL TR12

Provides for: digging shallow trenches in short periods of time, digging in hard-to-reach areas, ease of maintenance, and durability. There's no other machine built, designed, or priced like it on the market today. It comes equipped with carbide tipped, rock-type teeth for digging in all soil conditions at depths of 6, 8, and 12 inches. Ideal for your first trencher, and perfectly suited to compliment bigger machines.

MADE IN U.S.A.



**CARLSON
INDUSTRIES
INC.**

25010 E. 5TH St., Unit B, San Bernardino, CA 92410
P. O. Box 917, Highland, CA 92346
(714) 888-4882 • FAX (714) 889-5855



Now! Exclusive...

3 YEAR WARRANTY

on Green Garde® spray hose!

We've always said that Green Garde high pressure spray hose is your best buy. In fact, we're so sure that you can't buy a better spray hose, we've put our money where our mouth is.

Contact your Green Garde sales representative or call or fax today for details of how you can protect your hose investment with our new, three-year warranty.



**green
garde®**

Green Garde Division
H. D. HUDSON MANUFACTURING COMPANY
500 N. Michigan Avenue • Chicago, IL 60611-3748
312-644-2830 FAX: 312-644-7989

Circle 105 on Postage Free Card

SCOREBOARD

CLASSIFIEDS

Experienced head groundskeeper looking for a change in venue.

Background with the NFL, Major League Baseball, all phases of planning and construction. 29 years experience in the turf-grass industry. Reply to: sportsTURF C-33, P.O. Box 8420, Van Nuys, CA 91409.

LEGAL NOTICE

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Required by 39 U.S.C. 3685)

- 1A. Title of publication, sportsTURF
- 1B. Publication No. 1061687X
2. Date of Filing: October 1, 1992
3. Frequency of issue: Monthly except December
- 3A. No. of issues published annually: 11
- 3B. Annual subscription price: \$33.00
4. Mailing address of known office of publication: 6913 Valjean, Van Nuys, CA 91406-4761
5. Mailing address of headquarters of general business offices of publisher: P.O. Box 8420, Van Nuys, CA 91409-8420
6. Names and complete addresses of Publisher: Bruce F. Shank, 6913 Valjean, Van Nuys, CA 91406. Editor: Matthew Trulio, 6913 Valjean, Van Nuys, CA 91406. Managing Editor: Bruce F. Shank, 6913 Valjean, Van Nuys, CA 91406.
7. Owner: Gold Trade Publications, Inc. DBA Adams Publishing Corporation, 6913 Valjean, Van Nuys, CA 91406
Parent Company: Adams Gold Trade Acquisitions Corp. 109 Bushway Rd #210, Wayzata, MN 55391
8. Known bondholders, mortgages, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages or other securities: Greyhound Financial Corporation, Dial Corporate Center, Phoenix AZ 85077. Joe McAdams, 29901 Agoura Rd, Agoura, CA 91303. Barbara Forster, 2650 Marshland Rd, Wayzata, MN 55391. Kaplin Strangis & Kaplin, 5500 Norwest Center, Minneapolis, MN 55401.
9. Not applicable.
10. Extent and nature of circulation:

	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date
A. Total No. Copies (net press run)	22,952	23,100
B. 1. Not applicable		
2. Mail Subscription	12,508	12,337
C. Paid and Requested	12,508	12,337
D. Free distribution by Mail, Carrier or Other Means Samples Complimentary and Other Free Copies	10,022	10,258
E. Total Distribution (Sum of C and D)	22,530	22,595
F. Copies Not Distributed		
1. Office use, left over, unaccounted, spoiled after printing	422	505
2. Return from news agent	0	0
G. Total (Sum of E, F1 and 2)	22,952	23,100
11. I certify that the statements made by me above are correct and complete BRUCE F. SHANK Publisher		

HELP WANTED

Greensmix is the industry leader in custom soil blending of rootzone mixtures for sports turf and golf course construction. Our growth has resulted in the need for another team member. This sales position requires a background in agronomy, soil science, horticulture or a related field. Interested individuals should submit their resumes to Greensmix, E3481 hwy 22 & 54, Waupaca, WI 54981.

ADVERTISING IS LIKE THE WINNING HOMERUN OR TOUCHDOWN.

Call Pam to place a classified ad, and see how you score.

(818) 781-8300

ADVERTISER INDEX

A.A. Goode	41, 43
Air-O-Lator	38
Airborne Technology	31
Ameriquip	42
AquaScape Technologies	11
Beacon Sports	35, 42
Carlson Industries	36
Chopat	41
ConVault	9
Covermaster	35
Cygnat Turf & Equip	16
Diamond Demon, Inc.	43
Goossen Ind	35
Gordon Bannerman	34, 43
Greenstreak	42
H.D. Hudson Mfg	36
International Seeds, Inc.	31
Jaydee Equipment Co	30
John Deere	3
Kasco Marine, Inc.	30
Kifco	31
Kromer	34
Kuranda	35
McCord Auto Supply, Inc.	30
Nature Safe	37
O.M. Scott & Sons	41
Oly-Ola Sales, Inc.	38
P.W. Gillibrand Co	30
Partac/Beam Clay	37
Partac Peat	34
Photocomm, Inc.	31
Rainjet Fountains/ Hardie Irrigation	43
Reef Industries	15
Ryerson Plastics	13
Safety Storage, Inc.	15
Stabilizer	34
Tomark	42
Turfco Mfg. Co	12
Ty-Crop Turf Equipment	19
Universal Sports Lighting, Inc.	41
Valmont	44
Yamaha	7

Nature Safe

Natural Organic Fertilizers



- Customized Blending Available
- Derived From Animal Proteins
- No Manure or Sewage Sludge
- Retains Moisture for Plant Uptake
- Homogeneous Product
- Enriches the Soil
- Non-Burning/Slow Release

Mfg. By Griffin Industries

(800)252-4727 (606)781-2010

OVER 75 PRO TEAMS
including
2 of the 4
1992 PLAY-OFF TEAMS
and the

WORLD SERIES CHAMPS
TORONTO BLUE JAYS
play on



THE PROFESSIONAL'S CHOICE
... SINCE 1922

YOUR ONE-STOP SOURCE
FOR AMERICA'S
LEADING INFIELD
SURFACES & SUPPLIES!

WITH DISTRIBUTION CENTERS IN
ORLANDO (FL) MEMPHIS (TN)
RIPLEY (MS) GREAT MEADOWS (NJ)
BLANCA (CO) RENO (NV)

800-247-BEAM
908-637-4191

Circle 113 on Postage Free Card

November/December 1992

Circle 112 on Postage Free Card

CHEMICAL LOG

The Benefits of Organics

By Mike Crossen

The "Era of Recycling" is upon us. Look around our world today and see all of the recycling efforts taking place. In many communities, there is curbside pick-up of aluminum cans, plastics, and newspapers. Backyard composting of leaves and grass continues to gain popularity.

Nearly all organic fertilizers are recycled products. Most people's idea of organic fertilizer is manure. While this is true, products such as sewage, sludge, compost, plant, and animal proteins also make up organic fertilizers. The manure and sewage sludge products usually have lower analyses and can have odor problems. Animal and plant proteins offer the highest nutrient level. These are available in the form of feather, blood, bone, and fish meal.

Organic Mechanics

Almost everything that enters a plant is either produced in, or moves through the soil. After being activated by water and temperature, the organic matter feeds the microorganisms that feed the plant. However, if the temperature drops below the point

required for the organic fertilizer to break down, all nutrient release will stop. When the temperatures rise again, the remaining WIN (water insoluble nitrogen) will release its nourishment. The organic matter acts as a sponge collecting and storing nutrients and water until the plant can utilize them. This natural process makes for healthy soil as well as healthy plants. Plus, organics are totally used and not wasted.

Organic fertilizers provide a slow, sustained, and even release of nutrients, feeding plants for up to several months. They can also provide a degree of safety from burning. When burning occurs, the salt from the fertilizer draws moisture away from the plant, producing turf burn. Organic fertilizers have a very low salt index, which in most cases eliminates burning. This makes organics an excellent choice during the summer months when drought and heat stress are greatest.

The Process Of Soil Recovery

Another way organics help is by improving the foundation of the turf—the soil. Soils low in microbial activity and organic matter need help to recover. Organic fertilizers

enrich the soil by adding organic matter and microorganisms. As these components are increased, macroorganisms such as earthworms are attracted and convert organic matter into humus. This process begins to improve the soil and that in turn feeds the plant. As earthworm populations increase, compaction problems are decreased due to tunneling. This creates spaces for water, air, and nutrients to be stored and encourages deeper root growth.

Research

Current research at major universities such as Cornell, Ohio State, and the University of Georgia is underway on organics. Many attributes are being evaluated, such as fertility qualities, water-holding capacities, nutrient availability, longevity, and antagonistic effects on turf fungus. Studies have shown excellent results, particularly from the high quality animal proteins. Turf density, disease suppressions, and color enhancement have shown definite improvement from the use of these products.

Once soil is restored to health through good soil management practices—combined with solid turf management practices—the incidence of turf disease should decrease. That in turn means reduced dependency on chemicals. Used properly, organic fertilizers a safe, sound, and environmentally sensitive preventive medicine. □

Editor's Note: Mike Crossen is with Nature Safe in Cold Spring, KY.

CONFERENCE SHOWCASE

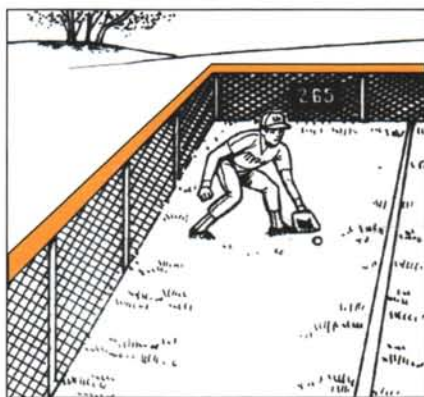
Aerator



Font'N-Aire combines the beauty of a romantic fountain with the benefits of an efficient aerator. Nothing moves water like a propeller...Air-O-Lator has been involved in propeller design and the technology of aerating since 1967. Font'N-Aire incorporates the Franklin electric, water-cooled, water-lubricated, submersible motor. We believe we have the most energy-efficient fountain on the market. Video available.

Air-O-Lator Sales Office-
Plant/Service Center, 8100-04 Paseo,
Kansas City, MO 64131 (800)-821-3177
Circle 149 on Postage Free Card

FENCE GUARD



OLY-OLA introduces FENCE GUARD, a protective cap for the top of chain link fences. FENCE GUARD protects against injuries caused by chain link fences bordering ball fields, playgrounds, parks, schools, and homes. FENCE GUARD is made of rugged, weather-resistant heavy vinyl and is secured to the fence with safe, sturdy plastic fasteners. Available in easily installed eight-foot sections, FENCE GUARD comes in two high-visibility colors—orange and yellow. For more information, please call or write:

OLY-OLA Recreational Edgings, Inc.
124 E. St. Charles Road, Villa Park, IL 60181,
(800) 334-4647 FAX (708) 833-0816
Circle 150 on Postage Free Card