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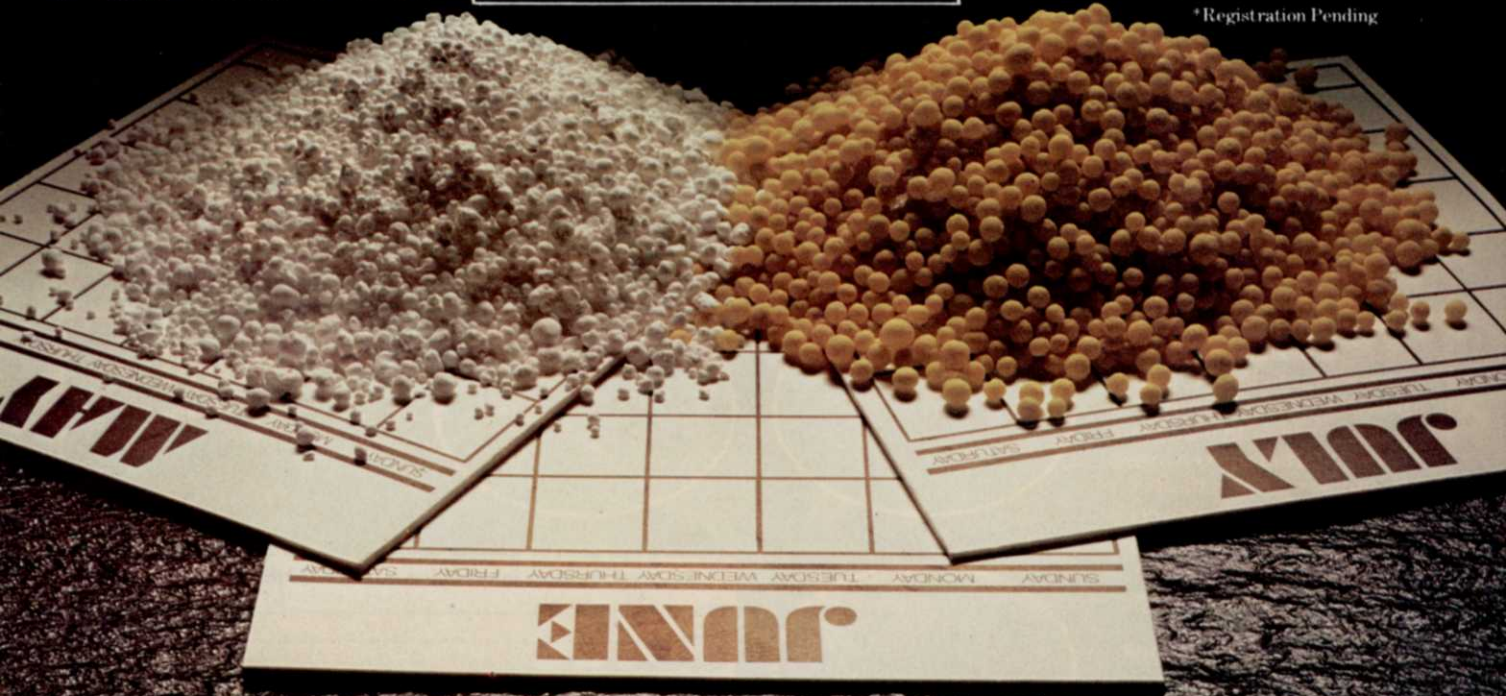


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Canada
519-672-9220

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Hopkins MN 55343
800-328-6656; 612-935-2137

W A Cleary Chemical Corp
1049 Somerset St
Somerset NJ 08873
201-247-8000

Conrel
110 A Street
Needham Heights MA 02194
617-449-3970

Conwed Corp
PO Box 43237
St Paul MN 55164
612-221-1100

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River Road
West Conshohocken PA 19428
215-828-0375

Creative Sales Inc
222 N Park Ave
Box 501
Fremont NE 68025
402-727-4800

Crystal Chemical Co
1525 N Post Oak Rd
Houston TX 77055
713-682-1221

Davey Tree Experts Co
117 S Water St
Kent OH 44240
216-673-2027

Diamond Shamrock Ag Chem Div
1100 Superior Ave
Cleveland OH 44114
216-694-5041

C B Dolge
11 Ferry Lane
Westport CT 06880
203-227-9591

★ Dow Chemical USA
9001 Bldg
Midland MI 48640
517-636-0936

Drexel Chemical Co
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PO Box 9306
Memphis TN 38109
901-774-4370

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Wilmington DE 19898
302-774-2132

★ Elanco Prods Co
1740 S Alabama St
Indianapolis IN 46285
317-261-3638

★ Encap Prods Co
PO Box 278
Mt Prospect IL 60056
312-593-6464

★ Estech Inc
PO Box 1996
Winter Haven FL 33880
813-294-7793

Estech Inc
30 N La Salle St
Chicago IL 60602

Faesy & Besthoff Inc
143 River Road
Edgewater NJ 07020
201-945-6200

FBC Chemicals Inc
See BFC Chemicals Inc

Fuerst Brothers Inc
PO Box 271
Rhinebeck NY 12572
914-876-3575

Grass Fiber Inc
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Junction City OR 97448
503-998-6812

Grass Growers Inc
424 Cottage Pl
Plainfield NJ 07060
201-755-0923

Great Lakes Biochemical Co
6120 W Douglas Ave
Milwaukee WI 53218
414-464-1200

Great Salt Lake Mineral & Chemicals Corp
PO Box 1190
Ogden UT 84402
801-731-3100

Jonathan Green & Sons Inc Seedsman
Squankum-Yellowbrook Rd
Farmingdale NJ 07727
201-938-7007

Gulf States Paper Corp
PO Box 3199
Tuscaloosa AL 35404
205-553-6200

Hendrix & Dail Inc
803 Industrial Blvd
PO Box 648
Greenville NC 27834
919-758-4263

Hooker Chemical
PO Box 344
Niagara Falls NY 14302

Hopkins Agricultural Chemical Co
PO Box 7532
Madison WI 53707
608-222-0624

ICI
PO Box 751
Wilmington DE 19897

International Reforestation Suppliers Inc
2100 W Broadway
PO Box 5547
Eugene OR 97405
503-345-0597

International Spike
PO Box 1750
Lexington KY 40593
800-354-9360

Kalo Agricultural Chemicals
4550 W 109 St
Overland Park KS 66211
913-649-5525

Kalo Inc
9233 Ward Pkwy
Kansas City MO 64114
800-821-3172

★ Lakeshore Equipment & Supply Lesco
Prods Div
300 S Abbe Road
Elyria OH 44036
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PO Box 647
Danville IL 61832
217-446-0983

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111 S Berry
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Milwaukee WI 53204
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340 Kingsland St
Nutley NJ 07110
201-235-3633

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St Louis MO 63147
314-982-5044

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PO Box 3422
Burbank CA 91504
213-849-2309

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PO Box 66388
Houston TX 77266
800-231-6211; In TX 713-522-0711

Miller Chemical & Fertilizer Corp
PO Box 333
Hanover PA 17331

Chemical Companies

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★ Milwaukee Metropolitan Sewerage
District-Millogranite SIs
735 N Water St
Milwaukee WI 53202
414-278-2034

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St Paul MN 55144
612-733-3733

★ Mobay Chemical Corp Agri Chem Div
Specialty Prods Group
Box 4913 Hawthorn Rd
Kansas City MO 64120
816-242-2000

★ Monsanto Co
800 N Lindbergh Blvd
St Louis MO 63167

Montco Products Corp
Box 404
Ambler PA 19002
215-628-3144

MSD/AGVET Div Merck & Co
PO Box 2000
Rahway NJ 07065
201-574-6463

Nalco Chemical Co
2901 Butterfield Rd
Oak Brook IL 60521
312-887-7500

National Bark Sales
1365 N Orchard St
Boise ID 83707
208-375-0656

National Bird Control
PO Box 1
Skokie IL 60076
312-675-2368

Occidental Chemical Co
PO Box 198
Lathrop CA 95330
209-858-2511

Oil-Dri Corp of America
522 N Michigan Ave
Chicago IL 60611
800-621-7191; In IL 312-321-1515

Olin Corp
Box 991
Little Rock AR 72203
501-378-3727

PBI-Gordon Corp
300 S Third St
Kansas City KS 66118
816-421-4070

Pennwalt Corp
Three Pkwy
Philadelphia PA 19102
215-587-7000

Plant Marvel Laboratories Inc
1507 Arnold St

Chicago Hts IL 60411
312-757-7500

★ Prentiss Drug & Chemical Co
363 Seventh Ave
New York NY 10001
212-736-6766

Reclamare Co
20727 Seventh Ave S
Seattle WA 98148
206-824-2385

Rhone-Poulenc Chemical Co Agrochem
Div
Box 125
Black Horse Lane
Monmouth Junction NJ 08852
201-297-0100

RIGO Co
PO Box 89
Buckner KY 40010
502-222-1456

Rohm & Haas Co
Independence Mall West
Philadelphia PA 19105
215-592-3000

Sandoz Inc
480 Camino Del Rio
San Diego CA 92108

O M Scott & Sons Co Proturf Div
Marysville OH 43040
513-644-0011

Shell Chemical Co
One Shell Plaza
900 Louisiana St
Houston TX 77002
713-241-6161

Sierra Chemical Co
1001 Yosemite Dr
Milpitas CA 95035
408-263-8080

Southern Hydro Mulch Supply Inc
2346 Joe Field Rd
Dallas TX 75229
214-263-0142

S P R A-Mulch
PO Box 189
Mattoon IL 61938
217-235-0561

Sta-Green Plant Food Co
PO Box 540
Sylacauga AL 35150
205-245-5282

Stanford Seed Co
560 Fulton St
PO Box 366
Buffalo NY 14240
716-825-3300

★ Stauffer Chemical Co
Westport CT 06881
203-222-3000

Stull Chemical Co
1006 Paulsun

San Antonio TX 78219
512-227-5255

Sudbury Laboratory Inc
572 Dutton Rd
Sudbury MA 01776
617-443-8844

Superior Fiber Products Co
1201 65th St
Baltimore MD 21237
301-866-4450

Sweepster
2810 SW Baker Rd
Dexter MI 48130
313-426-3961

T H Agriculture & Nutrition Co
5220 Speaker Rd
Kansas City KS 66106
913-281-4100

TUCO Ag Chemicals Div Upjohn Co
9823-190-1
Kalamazoo MI 49001
616-323-4000

Union Carbide Ag Prod Co
TW Alexander Ave
PO Box 12014
Research Triangle Park NC 27709

United States Gypsum Co
101 S Wacker Drive
Chicago IL 60606
312-321-3863

US Borax
3075 Wilshire Blvd
Los Angeles CA 90010

USS Agri-Chemicals Div US Steel
PO Box 1685
Atlanta GA 30328
404-572-4000

Vaughan's Seed Co
Chimney Rock Rd
Bound Brook NJ 08805
201-356-4200

Velsicol Chemical Corp
341 E Ohio St
Chicago IL 60611
314-670-4665

Vineland Chemical Co
W Wheat Rd
PO Box 745
Vineland NJ 08360

Weyerhaeuser
2525 S 336
Federal Way WA 98003
206-924-2345

Wilt-Pruf Products Inc
PO Box 4280
Greenwich CT 06830
203-531-4740

Zocon Corp Ag Chem Div
PO Box 975
Palo Alto CA 94306



5. Seed Companies

★ Adelphi
182-12 93rd Ave
Jamaica NY 11423
212-739-4400

J & L Adikes Inc
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Jamaica NY 11423
212-739-4400

Agriculture Service Corp
5240 Gaffin Rd SE
Salem OR 97301
503-581-8899

And
PO Box 101
Harrisburg OR 97446
503-995-6754

Certified Turfgrass Seed Names: Pennant
Perennial Ryegrass, Premier Perennial
Ryegrass

E F Burlingham & Sons
1936 19th Ave
PO Box 217
Forest Grove OR 97116
503-357-2141

Certified Turfgrass Seed Names: Falcon
Tall Fescue, Bonnieblue Kentucky
Bluegrass, Majestic Kentucky Bluegrass,
Birka Kentucky Bluegrass, Sydsport
Kentucky Bluegrass, Belle Perennial
Ryegrass, Banner Chewings Fescue

Ernst Crownvetch Farms
RD 5 Box 806
Meadville PA 16335
814-425-7276

★ Garfield Williamson Inc
1072 West Side Ave
Jersey City NJ 07306
201-435-3500
Certified Turfgrass Seed Names: Omega
Perennial Ryegrass, Eclipse Kentucky
Bluegrass, Jaguar Tall Fescue

Grasslyn Inc
641 Pine Grove Rd
State College PA 16801
814-238-0133

Certified Turfgrass Seed Names: Penngift
Crownvetch

Great Western Seed Co
950 Jackson
PO Box 387
Albany OR 97321
503-926-5892

Certified Turfgrass Seed Names: Clemfine
Tall Fescue, Rebel Tall Fescue, Prelude
Perennial Rye, Palmer Perennial Rye,
Diplomat Perennial Rye, Yorktown II
Perennial Rye, Baron Kty Blue, Ram 1
Kty Blue

Jonathan Green & Sons Inc Seedsman
Squankum-Yellowbrook Rd
Farmingdale NJ 07727
201-938-7007

Certified Turfgrass Seed Names: Premier
Per Rye, Parade Kentucky Bluegrass,
Adelphi Kentucky Bluegrass, Columbia
Kentucky Bluegrass, Citation Per Rye

Geo W Hill & Co
8010 Dixie Hwy
Florence KY 41042
606-371-8423

Certified Turfgrass Seed Names: Regal
Perennial Ryegrass, Eclipse Kentucky
Bluegrass, Rebel Fineleaf Tall Fescue

★ International Seeds Inc
PO Box 168
Halsey OR 97348
503-369-2251

★ Jacklin Seed Co
W 5300 Jacklin Ave
Post Falls ID 83854
208-773-7581

Certified Turfgrass Seed Names: Flying
Kentucky Bluegrass, Glade Kentucky
Bluegrass, Ram I Kentucky Bluegrass,
Cheri Kentucky Bluegrass, Wabash
Kentucky Bluegrass, Elka Perennial
Ryegrass, Reubens Canada Bluegrass

Jenks White Seed Co Div Jacklin Seed
PO Box 45
Tangent OR 97389

Kellogg Inc: Seeds & Supplies
322 E Florida St
Milwaukee WI 53204
414-276-0373

Certified Turfgrass Seed Names: Baron
Kentucky Bluegrass, Ram I, Glade,
Fylking, Adelphi, Touchdown, Majestic
Kentucky Bluegrass, Jamestown
Chewings Fescue, Yorktown, Yorktown
II, Diplomat, Derby, Manhattan, Pennfine
Perennial Ryegrass

★ Lakeshore Equipment Lesco Products Div
300 S Abbe Rd
Elyria OH 44036
216-323-7544

Certified Turfgrass Seed Names: CBS
Ryegrass, Columbia Ky Blue, Citation
Ryegrass, Birdie Ryegrass, Manhattan
Ryegrass, Penncross Bentgrass,
Penneagle Bentgrass, Falcon Tall
Fescue, Olympic Tall Fescue, Fortress
Red Fescue

★ Lofts Pedigreed Seed Co
PO Box 146
Bound Brook NJ 08805
201-356-8700

Mangelsdorf Seed Co
4500 Swan Ave
St Louis MO 63110
314-535-6700

Certified Turfgrass Seed Names:
Arboretum Ky Bluegrass, Adelphi Ky
Bluegrass, Baron Ky Bluegrass, Fylking
Ky Bluegrass, Glade Ky Bluegrass,
Warren's A-34 Ky Bluegrass, Manhattan
Perennial Ryegrass, Pennfine Perennial
Ryegrass, Regal Perennial Ryegrass

Manhattan Ryegrass Growers Assoc
1349 Capitol St NE
Salem OR 97303
503-363-1022

Midwestern States Fescue Assn
149 Park Central
Springfield MO 65806

★ Northrup King Co
1500 NE Jackson St
Minneapolis MN 55413
612-781-8011

Oregon Fine Fescue Commission
1349 Capitol St NE
Salem OR 97303
503-363-1022

★ Oregon Ryegrass
4093 12th St
Salem OR 97302

Oseco BC Ltd Oregon Ryegrass
Commission
PO Box 3366
Salem OR 97302

Oseco Inc
PO Box 219
Brampton ON L6V 2L2
Canada
416-846-5080

Certified Turfgrass Seed Names: Baron
Kentucky Bluegrass, Birka Kentucky
Bluegrass, Sydsport Kentucky
Bluegrass, Yorktown II Perennial
Ryegrass, Omega Perennial Ryegrass,
Emerald Creeping Bentgrass

Patten Seed & Turfgrass Co
119 Murrell Ave
Lakeland GA 31635
912-482-3131

Certified Turfgrass Seed Names: Centi-
Seed, Tifgreen, Tifdwarf, Tifway, Tifway
II, Emerald, Meyer Z-52, Raleigh,
Floratam

Penncross Bentgrass Assn
1349 Capitol St NE
Salem OR 97303
503-363-1022

Pennfine Perennial Ryegrass
PO Box 923
Minneapolis MN 55440

Otto Pick & Sons Seeds Ltd
Box 126
Richmond Hill ON L4C 4X9
Canada
416-884-1147

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4750 Lesage CP 151
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Canada
514-799-4586

Seed Companies

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Certified Turfgrass Seed Names: Banff Kentucky Bluegrass, Cheri Kentucky Bluegrass, Dormie Kentucky Bluegrass, Fyking Kentucky Bluegrass, Nugget Kentucky Bluegrass, Ram I Kentucky Bluegrass, Touchdown Kentucky Bluegrass, Barone Kentucky Bluegrass, Adelphi Kentucky Bluegrass, Merion Kentucky Bluegrass, Park Kentucky Bluegrass, Canon Canada Bluegrass, Common Canada Bluegrass, Reubens Canada Bluegrass, Agram Chewing Fescue, Jamestown Chewing Fescue, Pennlawn Creeping Red Fescue, Tournament Hard Fescue, Blazer Ryegrass, Fiesta Ryegrass, Derby Ryegrass, Manhattan Ryegrass, Pennfine Ryegrass, Exetes Coloniale Bent Grass, Penncross Creeping Bent Grass, Emerald Creeping Bent Grass, Astoria Coloniale Bent Grass, Seaside Creeping Bent Grass, Highland Coloniale Bent Grass

Otto Pick & Sons Seeds Ltd
RR 2 Box 4
Winnipeg MB R3C 2E6
Canada
204-633-0088

Pickseed West Inc
PO Box 888
Tangent OR 97389
503-926-8886

Certified Turfgrass Seed Names: Banff Kentucky Bluegrass, America Kentucky Bluegrass, Touchdown Kentucky Bluegrass, Fiesta Turf-Type Perennial Ryegrass, Blazer Turf-Type Perennial Ryegrass, Dasher Turf-Type Perennial Ryegrass, Agram Chewing Fescue, Tournament Hard Fescue, Exeter Colonial Bentgrass, Kingstown Velvet Bentgrass

Rothwell Seeds Ltd
PO Box 511
Lindsay ON K9V 4S5
Canada
705-324-9591

Rugby Kentucky Bluegrass
PO Box 923
Minneapolis MN 55440
Certified Turfgrass Seed Names: Rugby Kentucky Bluegrass

★ O M Scott & Sons Co Proturf Div
Marysville OH 43040
513-644-0011
Certified Turfgrass Seed Names: Proturf

Seaboard Seed Co
PO Box 117
Bristol IL 60512
312-553-5801

Seed Production & Introduction Corp (S P I C)
PO Box 923
Minneapolis MN 55440

Southern Turf Nurseries (Sprigs)
PO Box 714
Tifton GA 31794

Stanford Seed Co
560 Fulton St
PO Box 366
Buffalo NY 14240
716-825-3300
Certified Turfgrass Seed Names: Koket Chewing Fescue, Old English, Crown Vetch, Pennfine Perennial Ryegrass, Rugby Kentucky Bluegrass

Stanford Seed Co
809 N Bethlehem Pike
Spring House PA 19477
215-643-6470
Certified Turfgrass Seed Names: Rugby Bluegrass, Pennstar Bluegrass, Pennfine Ryegrass, Manhattan Ryegrass, Penncorss Bentgrass, Penneagle Bentgrass

Sunbelt Seeds Inc
2055 Tucker Industrial Rd
Tucker GA 30084
404-491-1311

Tee-2-Green Corp
PO Box 250
Hubbard OR 97032
800-547-0255

Turf Plantation
202 E Washington

Jonesboro AR 72401
501-972-5549
Certified Turfgrass Seed Names: Tifway 419, Tifway 328

★ Turf-Seed Inc
44 G St
PO Box 250
Hubbard OR 97032
503-981-9571
Certified Turfgrass Seed Names: Citation Ryegrass, Omega Ryegrass, Columbia Bluegrass, Shasta Bluegrass, Shadow Fine Leaf Fescue, Fortress Fine Leaf Fescue, Olympic Turf Type Tall Fescue

Vaughan's Seed Co
5300 Katrine Ave
Downers Grove IL 60515
312-969-6300
Certified Turfgrass Seed Names: Cheri, Adelphi, Glade, Reubens Canada Blue, Citation, Master Blend

Vaughan's Seed Co
Chimney Rock Rd
Bound Brook NJ 08805
201-356-4200
Certified Turfgrass Seed Names: Adelphi Kentucky Bluegrass, Glade Kentucky Bluegrass, Cheri Kentucky Bluegrass, Merit Kentucky Bluegrass, Touchdown Kentucky Bluegrass, Pennant Perennial Ryegrass, Citation Perennial Ryegrass, Regal Perennial Ryegrass

Warren's Turf Nursery Inc Seed Div
7502 S Main St
Crystal Lake IL 60014
815-455-5100
Seed Div
PO Box 459
Suisun CA 94585-0459
707-422-5100; 422-5101
Certified Turfgrass Seed Names: A-34 BenSun Kentucky Bluegrass

Whitney Dickinson Seeds Inc
52 Leslie St
Buffalo NY 14211
716-896-1111
Certified Turfgrass Seed Names: Pennfine Perennial Ryegrass, Manhattan Perennial Ryegrass, Manhattan II Perennial Ryegrass, Rugby Kentucky Bluegrass

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0210 Dealers, Distributors
 Other supplier (please specify) _____

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What is your title? (please specify) _____

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LAKESHORE: OHIO TURF DEALER GROWS INTO NATIONAL MANUFACTURER

In 1961, there were three ways for a golf course superintendent to buy products he needed; from an agricultural supplier, garden center dealer or, in a few cities, from a localized "turf distributor" such as Bob Burkhardt in Rocky River, Ohio. Regional distributors of turf and landscape supplies hadn't developed in most areas of the United States by then.

Today, Bob Burkhardt looks back with partner Jim FitzGibbon and smiles, almost in disbelief, at the state of Lakeshore Equipment & Supply Co., one of the first "regional turf suppliers," now a national distributor of turf supplies. The \$75,000 gross of 1962 has grown and is now approaching \$40 million including chemical and equipment manufacturing divisions.

FitzGibbon, a lumber broker and hardware merchant, joined up with Bob Burkhardt in the early 1960s. Since 1962, Lakeshore has had four homes in the Cleveland area, but next year the company returns its offices to where it started out, Rocky River. Lakeshore is in the process of renovating the old hardware store to make it the new headquarters for LESCO.

The company's current headquarters in Elyria, OH, doesn't have the Musac atmosphere of some companies. It is more like the floor of the stock exchange with orders being announced over the intercom and all kinds of activity in the hallways and offices. The only time the principals really have time to discuss business is over lunch.

As the name implies, Lakeshore started as an equipment and supply dealer located on the south shore of Lake Erie, supplying local golf courses, cemeteries, greenhouses and nurseries. More than 80% of its business in 1963 was equipment. Lakeshore represented National, West Point Products, Sod Master, Goodall, H.D. Hudson and Smithco, among others. Its first

salesman, Herb Cole, came from H.D. Hudson in 1963. Sales people Gene Probasco, Ed Williams, Barb Craycraft and Ron Giffen joined the company shortly thereafter.

FitzGibbon and Burkhardt weren't satisfied with the territorial limitations placed on equipment distributors by manufacturers. They had a concept for a regional business and restrictive territories were counterproductive. Even so, Lakeshore grew to become the largest distributor of many equipment lines. "There are two thoughts on marketing equipment," says FitzGibbon. "One is to sell by territory. The second is to allow competition to take its course." Though the second choice was not popular in the turf industry, Lakeshore was ready to let competition take its course. The course led straight to growth.

In the early days, Lakeshore also sold a line of fertilizers manufactured by Agrico. Today, its subsidiary Ag Industries Mfg., Columbia, Alabama, produces sulfur-coated urea and sulfur-coated fertilizers. Facilities in Wellington, OH, produce fertilizer, formulate chemicals and serve as a warehouse. Manufacturing, formulating and warehouse facilities are also located in Sebring, FL, and a new warehouse is located in Landover, MD.

Lakeshore added chemicals to its line in 1970 when Morton Chemical was selling out its line of turf herbicides. Lakeshore bought the products and originated its first private label chemicals, Lescopex—MCPP—and Lesopar—a combination of MCPP and 2,4-D. Today, Lakeshore formulates a line of 20 proprietary chemicals including Lescosan, A,4-D (2,4-D), Dursban® and Diazinon® granular and fertilizer combinations. Plans for 1983 include more formulating facilities and more facilities for the manufacture of after-market replace-

ment parts for turf equipment and golf course accessories.

If Lakeshore has symbol to tout, it is its LESCO Truck showroom system. With 21 trucks and growing, Lakeshore brings a showroom on wheels to its golf course customers once a month, or more often if needed. Chemicals, equipment and accessories are displayed and supplied from the trucks. In between salesmen's visits, customers can order directly from Elyria. Ads encourage phone orders suggesting customers "Call Barb" for fast service.

Lakeshore's first LESCO Truck was placed in Florida and proved to be a disappointment. A second chance in Florida proved to be successful, however, and Lakeshore has expanded its truck routes ever since. Prior to instituting truck sales, Lakeshore served the states of Ohio, Indiana, Michigan, Kentucky, Pennsylvania and Illinois. Today, the company serves 25 states with its sales force and the entire country with its mail order business.

The trucks have enabled Lakeshore to grow more into Southern markets which have year-round sales. Growth there has also encouraged Lakeshore to enter the overseeding market. A relationship with Turf Seed, Inc. in Hubbard, OR, has prospered with CBS overseeding mixture. Future seed varieties are being tested by Turf Seed's Dr. Bill Meyer.

The lawn service business has given Lakeshore another area for growth. FitzGibbon sees continued growth there as well as in the golf course and nursery areas. A new line of spreaders, including an electric model, might be the beginning of a national equipment manufacturing division. "We already make many replacement parts for golf equipment, we just don't assemble the units yet," says FitzGibbon.

WTT

VEGETATION MANAGEMENT

By Roger Funk, Ph.D., Davey Tree Expert Co., Kent, Ohio

Q: I would like to know as much as possible about gummosis. It is common here on Russian olive and honey locust, and I have been told that it is a sure sign of stress. What kind of stress? Water, nutrient, light, insects? What is it? How does it form? Where does it come from? And would it be toxic to trees that are close or are planted as replacements in the same spot? (Colorado)

A: Gummosis is defined as the exudation of sap which breaks out to the surface. Discharges may be due to the attack of a parasite, often in another part of the plant. The peach borer, working in the crown, may cause gummosis of trunk and branches. Gummosis caused by the fungus, *Botryosphaeria dothidea*, has been reported recently on peach as well as currant, apple, almond and blueberry. It is highly possible that a biological stress or combination of stresses weakened the trees and predisposed them to borers or a fungal infection which, in turn, caused gummosis. Biological stress can be any environmental factor capable of inducing a potentially injurious physical or chemical change in a living organism. These factors include drought, defoliation, high and low temperatures, transplanting, wounding and chemical (i.e. herbicides, air pollution) stresses. Both water stress and defoliation have reportedly predisposed several tree species to *Botryosphaeria dothidea*, the fungal organism mentioned earlier as causing gummosis.

Contact your local Cooperative Extension Service for information concerning the nearest diagnostic laboratory to which you can submit samples. Perhaps Dr. James R. Feucht, Professor, Landscape Plants, Department of Horticulture, Colorado State University, could be of assistance. You may also want to contact Dr. Schoene-weiss at the Illinois Natural History Survey in Urbana, Illinois, for further information on environmental stress and predisposition.

Q: We've tried Roundup to control kikuyugrass when renovating Kentucky bluegrass turf but the kikuyugrass begins reestablishing almost immediately. Is there another chemical or method that does a better job? (California)

A: An application of glyphosate (Roundup) followed by thatch removal, overseeding and an application of Siduron to limit kikuyugrass seedling germination produces the best results.

Initial competition of the overseeded grasses also is very important in reducing kikuyugrass regrowth. Perennial ryegrass and tall fescue which germinate and become established much more rapidly than Kentucky bluegrass are recommended.

Q: Can you recommend a publication on diagnosing tree problems that can be used to help train fieldmen? (Ohio)

A: Identifying Shade Tree Problems (A3073) by Dr. Gayle Worf, Professor of Plant Pathology at the University of Wisconsin, is an excellent aid for field personnel. It contains color prints, is reasonably priced and is available to out-of-state purchasers from Agricultural Bulletin Building, 1535 Observatory Drive, Madison, Wisconsin 53706.

Q: I read recently that lime reduces the number of grubs in turf. Is this true can lime be used as an effective control for beetle grubs? (New York)

A: Lime does appear to provide some kind of physical or chemical barrier which prevents the female beetle from entering the soil and laying eggs. However, the barrier is temporary, probably lasting only a few days. Further testing is necessary to determine the effectiveness of lime in reducing white grub populations, but current indications are that lime alone will not provide adequate control.

Q: What causes the leaves of black locust to turn brown every summer? Is it a disease and can it be controlled? (West Virginia)

A: The larvae of the locust leafminer cause the leaflets to turn brown by mining between the leaf surfaces. Several insecticides are effective including Diazinon or carbaryl sprayed on foliage in late May and again in early July to control adult beetles.

Q: Could the weight from unused mortar dumped on one side of a large slash pine cause injury to the root system? The mortar was removed after about a month but two large limbs have since died on that side. (Florida)

A: Compaction and changes in water and oxygen availability can quickly cause injury to roots. Older trees and those in weakened condition are more seriously injured. Slash pines also are reportedly sensitive to pH changes in the soil. Lime from the mortar could have raised the pH to an unsuitable level.

Send your questions or comments to: Vegetation Management c/o WEEDS TREES & TURF, 757 Third Avenue, New York, NY 10017. Leave at least two months for Roger Funk's response in this column.