



The ServiceMaster system is terrific for someone entering business. As an accounting and business major I can tell they did a good job developing the program.

Training at the Academy was exceptional. Other lawn care systems aren't so thorough. We really studied hard and learned a lot. Rick White is extremely concerned about professionalism and quality. He says we reflect on him.

ServiceMaster has a great business review. It helps you set your goals, understand percentages and estimates, and figure out how you're going to break even.

Whatever it is, you do the footwork, and ServiceMaster helps when you need it. For instance ServiceMaster has a marvelous system of telemarketing. The scripts are all set up.

And I don't meet as much resistance as other lawn care operators. The people we call are real hesitant because there have been a lot of fly-by-night operations in lawn care. But ServiceMaster has a really **good name**...always been honest. We have that quality behind the name. People are comfortable with ServiceMaster.

Another guy in Rochester went broke last year because he couldn't get customers. Now he's looking into buying a ServiceMaster license.

Business is good. I've been getting a lot of calls.

Janice Vichowski

Janice Piechowski ServiceMaster LawnCare Operator Rochester, Minnesota

For information and a franchise application, please call or write:



ServiceMaster LawnCare

2300 Warrenville Road Downers Grove, IL 60515 (312) 964-1300 All kinds of people with every sort of background show up at the LawnCare Academy. Doctors, teachers, housewives, truckers, pipefitters, green (excuse the pun) kids not long out of high school. They arrive with one idea: to become independent professionals in their own business.

At the Academy I take my mission to train them seriously. I see a great future for lawn maintenance as homeowners realize the extent to which it protects and maintains property investment. I see a great future for ServiceMaster LawnCare because Service-Master pioneered franchising and established the standard for excellence in service

As Jan Piechowski says, students study bard and learn a lot at the Academy. Why? Because your grasp of our technical and business principles make all the difference in the "real world".

If you have a vision for your life and work, you need a plan of action to fulfill it. ServiceMaster provides that plan...then belps people carry it through.

What's your vision for your life? Where are you now? You might be working for a lawn maintenance operator yourself. You might even own a struggling independent lawn care company.

Investigate the benefits and profitability of franchising! Check out the most experienced, most established service franchise network in the world—ServiceMaster.

There are good reasons to do so. After all, your vision is **just** a vision, 'til you make it real.

Rick White

Rick White Vice President ServiceMaster LawnCare

sterilants are certainly considered post-emergence herbicides. However, safety concerns associated with their use in the homeowner environment have reduced their popularity.

Many factors affect herbicide efficacy. Some of the more important factors that should be given consideration prior to use include the fol-

lowing:

1. Identification of the weed and desirable turfgrass. Positive identification of the weed to be controlled is essential to prescribing the most effective herbicide.

In addition, it is important to know which turfgrass the weed is in since different turfgrasses have varying susceptibilty to applied herbicides.

2. Growth stage of the weed. Most effective post-emergence weed control is achieved on young, actively growing weeds. If weeds are nearing the end of their life cycle and not actively growing, they will not be effectively controlled.

Examples of improper timing would include attempts to control winter annuals such as common chickweed, henbit, German moss (Knawel) and sowthistle in June when they have already produced seed for the upcoming fall germination and are near the end of their

annual life cycle.

3. Growth rate of the weed. The more metabolically active a weed is, the more effectively it will be controlled by herbicides. Therefore, any factor such as sunlight, moisture or good nutrition that speeds up growth rate will generally increase herbicide efficacy.

If weeds to be controlled are under heat or drought stress they will not be metabolically active and will be less affected by applied herbicides.

On the other hand, if the desirable cool-season turfgrass is somewhat sensitive to the herbicide being applied and is under drought or heat stress, it is likely it will suffer greater damage from the application.

3. Morphology of the weed. If the weed to be controlled has a thick, waxy cuticle or a leaf shape which is not conducive to good herbicide spray contact, decisions about which formulation of the herbicide to utilize can be critical. Weeds like wild onion and wild garlic are better controlled with liquid sprays than granular sprays.

Additionally, waxy cuticles are better penetrated by low-volatile esters than amine formulations. Concern about the increased probability of ester volatilization in the landscape has however reduced ester popularity.

4. Air and soil temperature. Maximum metabolic activity in most weeds occurs between 55 and 80 degrees Fahrenheit and therefore herbicide spraying should be planned for times of the year when temperatures are in this range. Temperatures outside this range will reduce metabolic activity and therefore herbicide effectiveness.

5. Rainfall probability and foliage wetness. Liquid herbicides are most effectively absorbed when applied to dry leaf surfaces. Water dilution rates for herbicides have been recommended assuming the foliage is dry at the time of application.

Wet foliage will reduce liquid herbicide effectiveness at normal water spray rates. Granular herbicides are generally more effectively absorbed when applied to wet foliage.

Most foliar absorbed post-emergence herbicides require four to six hours of foliar absorption to be effective. Rainfall prior to this time will significantly reduce herbicide effectiveness.

Anything that reduces metabolic activity of the weed during the foliar absorption period will increase the time required to achieve adequate herbicide absorption. Other factors such as physiological detoxification of applied herbicides, organic matter binding, soil binding, leaching,

Herbicide Manufacturers

American Cyanamid 1 Cyanamid Plaza Wayne, NJ 07470 (201) 831-2000

The Andersons P.O. Box 119 Maumee, OH 43537 (419) 893-5050

Applied Biochemists 5300 West County Line Rd. Mequon, WI 53092 (414) 242-5870

BASF Wyandotte 100 Cherry Hill Rd. Parisippany, NJ 07054 (201) 263-3400

Ciba Geigy Corp. P.O. Box 18300 Greensboro, NC 27419 (919) 292-7100

W.A. Cleary Chemical Corp. 1049 Somerset St. Somerset, NJ 08873 (201) 247-8000 PBI/Gordon Corp. 1217 West 12th St. Kansas City, MO 64101 (816) 421-4070

Hoechst-Roussel Route 202-206 North Somerville, NJ 08876 (201) 231-2000

Hopkins Agric. Chem. Co. P.O. Box 7190 Madison, WI 53707 (608) 221-6200

ICI Americas P.O. Box 751 Wilmington, DE 19899 (302) 575-3000

Lebanon Chemical Corp. P.O. Box 180 Lebanon, PA 17042 (717) 273-1685

Crystal Chemical InterAmerica Co. 1523 North Post Oak Rd. Houston, TX 77055 (713) 682-1221 Dow Chemical USA P.O. Box 1706 Midland, MI 48640 (517) 636-1105

Drexel Chemical Co. 2487 Pennsylvania St. Memphis, TN 38109 (901) 774-4370

E.I. Du Pont de Nemours 1007 Market St. Wilmington, DE 19898 (302) 774-1000

Elanco Products Co. Lilly Corporate Center Indianapolis, IN 46285 (317) 276-3759

Fermenta Plant Protection P.O. Box 348 Painesville, OH 44077 (216) 357-3000

continued on page 74

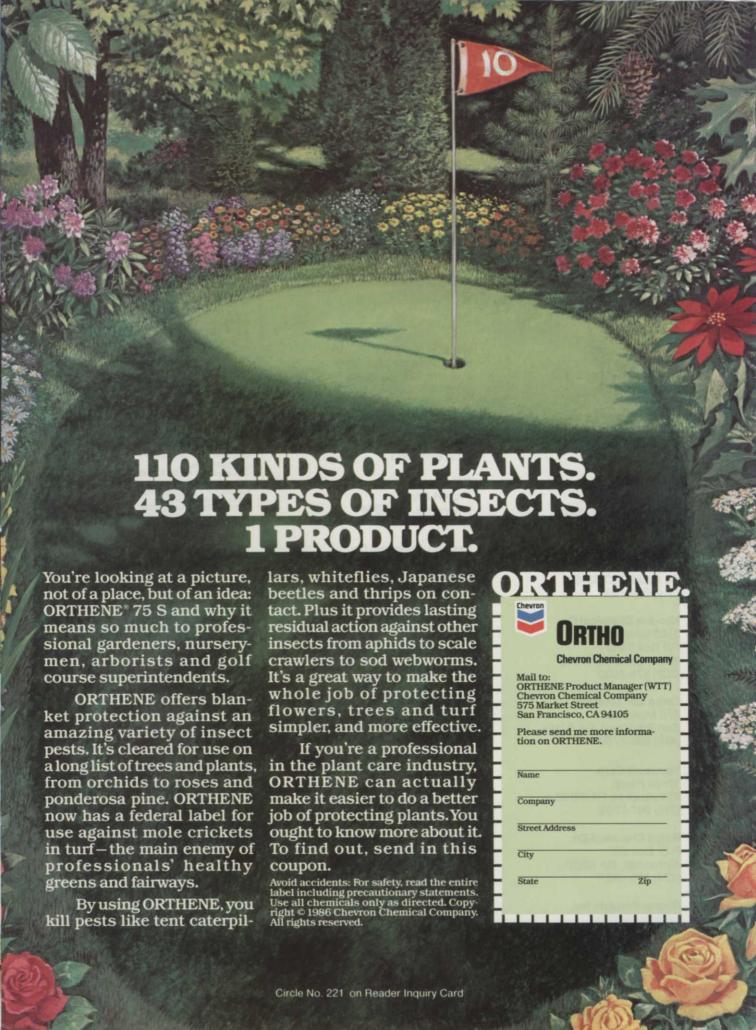


photo decomposition, water pH, mixture incompatibility and rate of the herbicide applied can all have an effect upon the efficacy of the applied herbicide.

Combinations of commonly used broadleaf post-emergence herbicides are generally more effective in providing broad spectrum weed control than single herbicide mixtures.

Repeat applications of some herbicides will be necessary for 100 percent control. Use of post-emergence arsenicals for annual grass control actually necessitates re-application two or three times at 10- to 14-day inter-

Repeat applications of the broadleaf herbicides should be spaced at least 30 to 45 days apart to minimize injury to the turfgrass.

In all spraying situations, spot spraying minimizes cost, environmental exposure and general stress on the desirable species while maximizing herbicide efficiency. In all instances, it is of paramount importance that label recommendations be closely followed.

LM

Anderso

partner™

the professional's

EAST

ALLEGHENY LAWN PRODUCTS
Wexford, PA • (412) 935-2290
BYRUM SEED COMPANY
Charlotte, NC • (704) 527-0481
CHARLES C. HART SEED CO.
Wethersfield, CT • (203) 529-2537
FARM & GOLF COURSE SUPPLY CO., INC.
Philadelphia, PA • (215) 483-5000
FISHER & SON COMPANY, INC.
Malvern, PA • (215) 598-3102
J. AND L. ADIKES, INC.
Jamaica, NY • (718) 739-4400
NORTHAMPTON COUNTY SEED CO.
Bath, PA • (215) 837-6311
ROCKLAND CHEMICAL CO., INC.
W. Caldwell, NJ • (201) 575-1322
SEACOAST LABORATORIES
Dayton, NJ • (201) 821-4769
TURF SPECIALTY, INC.
HOOKSEIT, NH • (603) 485-7866
WILSON FEED AND SEED
Richmond, VA • (804) 232-6791

MID-WEST

BUNTON SEED COMPANY
Louisville, KY • (502) 583-9040
C.O. LOWE SALES
Columbus, OH • (614) 771-0486
LETHERMANS, INC.
Canton, OH • (216) 452-8866
1-800-362-0487 (OH only)
1-800-542-7333 (outside Ohio)*
PROFESSIONAL TURF SPECIALTIES
Champaign, IL • (217) 352-0591
TENNESSEE OUTDOOR POWER
LaVergne, TN • (615) 793-6052
1-800-854-4851 (TN only)
THORNTON-WILSON, INC.
Maineville, OH • (513) 683-2141
TOLEDO TURF EQUIPMENT
Toledo, OH • (419) 473-2503
TURF AND TREE SUPPLIES
Rockton, IL • (815) 624-7578
TURF PRODUCTS LTD.
W. Chicago, IL • (312) 668-5537
TURF SPECIALTIES, INC.
Fort Wayne, IN • (219) 484-6338
1-800-552-1989 (IN only)
TURF SPECIALTIES, INC.
Zionsville, IN • (317) 875-7955
1-800-552-1989 (IN only)
TURFGRASS, INC.
South Lyon, MI • (313) 437-1427
1-800-521-8873 (MI only)

WES1

BIG BEAR EQUIPMENT, INC.
Omaha, NE • (402) 331-0200
1-800-229-9761 (outside NE)
BIG BEAR TURF EQUIPMENT CO., INC.
Eldridge, IA • (319) 285-4440
COLORADO GARDEN SUPPLY
Denver, CO • (303) 331-0114
DAKOTA TURF SUPPLY, INC.
Sioux Falls, SD • (605) 336-1873
OUTDOOR EQUIPMENT CO.
Maryland Heights, MO • (314) 569-3232
R. L. GOULD
St. Paul, MN • (612) 484-8411
ROBISON'S LAWN AND GOLF, INC.
Wichita, KS • (316) 942-2224
ROBISON'S LAWN AND GOLF, INC.
Grandview, MO • (816) 765-3333
TURF MANAGEMENT SUPPLY
Sun Prairie, WI • (608) 837-5598
WISCONSIN TURF EQUIPMENT CORP.
Janesville, WI • (608) 752-8766
WISCONSIN TURF EQUIPMENT CORP.
New Berlin, WI • (414) 544-6421

Outside Ohio only applies to these states: Pennsylvania, New York, West Virginia, Kentucky, Indiana, Michigan.

Herbicide Manufacturers

continued from page 72

Lesco Products 20005 Lake Rd. Rocky River, OH 44116 (216) 333-9250

Mallinckrodt Inc. P.O. Box 5439 St. Louis, MO 63147 (314) 895-2000

Mobay Chemical Group P.O. Box 4913 Kansas City, MO 64120 (816) 242-2000

Monsanto Co. 800 North Lindbergh Blvd. St. Louis, MO 63167 (314) 694-1000

Nor-Am Chemical Co. 3509 Silverside Rd. PO Box 7495 Wilmington, DE 19803 (302) 575-2000

Ortho Div. Chevron 575 Market St. San Francisco, CA 94105 (415) 894-7700

Pennwalt Corp. Three Pkwy. Philadelphia, PA 19102 (215) 587-7000

Regal Chemical Co. P.O. Box 900 Alpharetta, GA 30201 (404) 475-4837

Rhone-Poulenc Inc. Agrichemical Div. P.O. Box 125 Black Horse Lane Monmouth Junction, JN 08852 (201) 297-0100 Rohm & Haas Co. Independence Mall West Philadelphia, PA 19105 (215) 592-3000

Sandoz Crop Protection 341 E. Ohio Chicago, IL 60611 (312) 670-4665

OM Scott & Sons Proturf Div. Marysville, OH 43041 (513) 644-0011

Stauffer Chemical Co. Agricultural Chem. Div. Westport, CT 06881 (203) 222-3294

Union Carbide
Agricultural Products
T.W. Alexander Dr.
Research Triangle Park, NC 27709
(919) 549-2000

Uniroyal Chemical Elm Street Naugatuck, CT 06770 (203) 723-3000

Vertac Chemical Co., Inc. 5100 Poplar Ave. Suite 3122 Memphis, TN 38137 (901) 767-6851

Vineland Chemical Co., Inc. 1611 W. Wheat Rd. P.O. Box 745 Vineland, NJ 08360 (609) 691-3535

COMPATABILITY.

Introducing Lawn Pride™ Chelated Iron. The Clear-Cut Choice When Compatibility Counts.

New Lawn Pride from The Andersons is the 6% liquid chelated iron that's completely compatible with N-P-K formulas, urea formaldehyde, high pH water and virtually all herbicides and pesticides. That's compatibility ability!

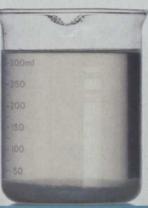
If that's not good news enough, here's more. Lawn Pride is totally non-staining and can safely be used around sidewalks and drives-equipment and houses. It's also non-settling in your tank-another problem solved.

It can be applied anytime of the day with long-lasting results you can see within 24-48 hours. And, if storage is a concern, Lawn Pride stays stable for a minimum of a vear.

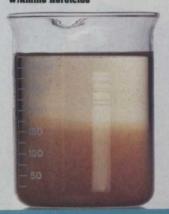
The Andersons' Lawn Pride even saves you money. In comparison with complexed iron products, substantially less Lawn Pride is used in your mix. And that can add up to big savings.

Lawn Pride w/NPK (16-3-6) Complexed Iron w/NPK (16-3-6) Lawn Pride w/Amine Herbicide **Complexed Iron** w/Amine Herbicide









Lawn Pride's budget compatible, too.

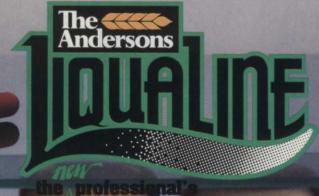
Lawn Pride from The Andersons is the chelated iron that costs no more than complexed. That means you're getting premium performance without paying a premium price.

Lawn Pride is available now at your close-by Andersons Distributor listed on the adjoining page. Or, if you're not sold yet and want to know more, call The Andersons Product Information Center toll-free. Call 1-800-225-ANDY.

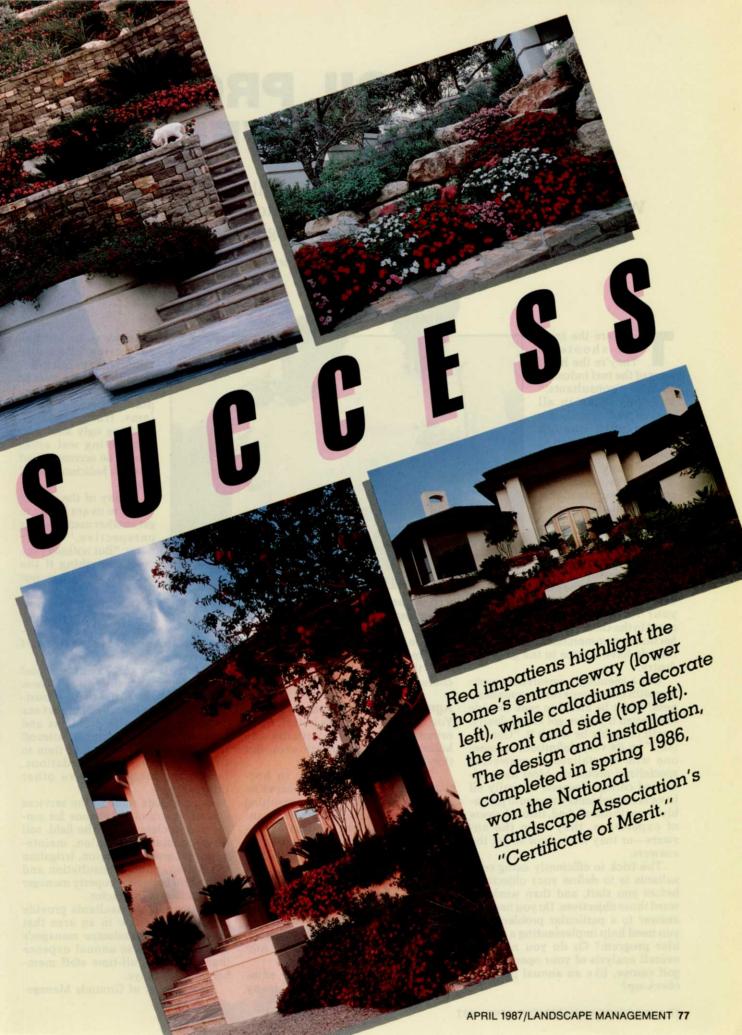
Lawn Pride w/High pH Water Complexed Iron w/High pH Water







by Heide Aungst, associate editor A 30-foot slope challenged designer Fernandez Frazer White & Associates When landscaping this San Antonio, Tex. residence. used retaining walls to minimize the slope and allow for a pool, cabana and spa below the slope. The slope also inhibited planting, and trees had to be craned over the property. wall and placed in their locations downhill. Installer Milberger Landscaping & Nursery of San Antonio used native plant materials on the slope, such as yucca (above center), because of their drought tolerance.



HAVE SOIL PROBE, WILL TRAVEL

Green industry consultants come in all shapes and sizes. Whether you're in the private or public sector, a landscape contractor or a golf course superintendent, you might need one some day.

by Jerry Roche, editor

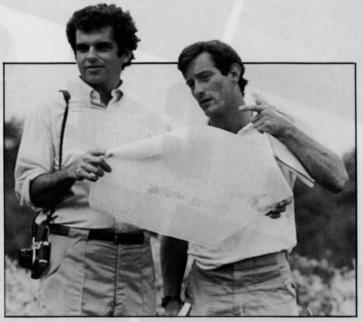
hey are the trouble-shooters.
They're the hired guns of the turf industry.
They're "consultants," and they come in all shapes and sizes, each armed with enough technical information to solve your problems.

But many landscape managers and golf course superintendents are not all that interested in them. Why? Because most consultants cost money—money that could just as easily be spent on fertilizer or a new mower. Yet they do exist—on any level from your local extension agent to the USGA Green

Section to commercial interests—and they do have a place in the green industry.

Got a seemingly unsolvable problem with either your turf or your business? Don't be afraid to seek outside help, even if you've got to pay dearly. It will probably be worth it. "Consultant," by its very definition, is someone who specializes in answering specialized problems. Most have advanced college degrees; virtually all have seen problems you would probably never think of. And, through years of experience, they have the answers—or they know how to get the answers.

The trick to efficiently using consultants is to define your objectives before you start, and then work toward those objectives. Do you need an answer to a particular problem? Do you need help implementing a particular program? Or do you need an overall analysis of your operation or golf course, like an annual physical check-up?



Ken Miller (right) and associate Mike Miller on-site, the "first link in getting a client in touch with the last link."

Here, then, is a brief rundown of the kinds of consultants available to you, the landscape manager or golf course superintendent.

Agronomic consultants

You can find specialists in turf, trees, ornamentals or soil—virtually any horticultural or agronomic area. But they're in short supply.

"There's a deficiency in horticulturally-trained people," says Ken Miller, who owns his own consulting business in St. Louis. "It's not a financially attractive job; it's usually a labor of love. I think there's an incredible need in this type of service."

Miller, for one, offers specific services. He begins every job with a site inspection, tagging every tree and plant, giving the landscape manager a maintenance schedule, recommending purchases, and answering any particular technical questions.

"We're not pathologists or entomologists," says Miller, "but many times we're the first link to getting clients in touch with the last link."

Miller is a believer in problem-solving with plants. Erosion problems, traffic control, masking ugly sites and eliminating wet areas can all be accomplished through judicious use of plants.

"Many of the people that hire us are happy to get another management perspective," Miller notes. "But nothing I say means anything if the follow-through is not there."

Dorothy Borland runs The Turf Expert, Denver, Col. She is a fre-

quent speaker at state turf conferences.

"Many lawn care companies and maintenance companies don't know anything about turf—they're businessmen," she observes. "I can act as a mediator for on-site problems and take a lot of time-consuming duties off their hands. I can take that time to fine-tune turf recommendations. Landscape managers have other things to do."

Borland lists some of the services she offers: training sessions for employees in class and in the field, soil tests, problem evaluation, maintenance program evaluation, irrigation evaluation, phone consultation and mediation between property manager and landscape contractor.

"In essence, consultants provide technical expertise in an area that may not be the landscape manager's specialty—for less annual expense than having a full-time staff member." Borland says.

Bob Moeller of Grounds Manage-

Surflan. Roundup. Mix them together, and you've got control that knocks weeds down and keeps them down. Three times longer, in fact, than Roundup alone.

That's what landscapers all across the country are now finding. They are getting better weed control and more satisfied customers. And they're saving time and labor costs because they're applying just once.

With a Surflan/Roundup tank-mix, you get complete control of over 50 different weeds—including such tough species as crabgrass, barnyardgrass, chickweed, spurge, johnsongrass and

foxtail. And Surflan won't harm your nearby landscaped areas, either. It works with little or no lateral movement.

Join the growing list of satisfied users. Add Surflan to your Roundup and stretch your weed control three times longer. See your Elanco distributor for Surflan. Or call toll-free: 1-800-ELANPRO. In Indiana, call collect: 317-261-6102.

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. E-455. Indianapolis. IN 46285. U.S.A.

Dept. E-455, Indianapolis, IN 46285, U.S.A. Surflan®—(oryzalin, Elanco Products Company) Roundup®—(glyphosate, Monsanto)



Circle No. 119 on Reader Inquiry Card



ment Consultants, Carmel, Ind., cites these advantages of hiring a seasoned consultant:

- 1) the opinion of impartial professionals:
- 2) direct savings in cost of maintenance, personnel training and cost of supplies;
 - 3) reduction in staff errors; and
- 4) individual attention to each facility.

The Grounds Management staff includes landscape architects; arborists and murserymen; specialists in turf, irrigation, maintenance and soil.

Extension agents

Agronomically-oriented, these are specialists in horticultural problems. They are paid by the land-grant college in your state and operate out of county offices so that they are probably the most authoritative people you can find for different geographical regions.

Janet Hartin, environmental horticulturalist for the San Bernardino County Agricultural Cooperative Extension, is responsible for the largest county in the nation, stretching from just east of the Los Angeles area all the way to the Nevada state line.

"The stronghold we have is that we



Dorothy Borland helps take time off clients' hands.

are unbiased," notes Hartin. "And our goal is to extend research-based information to commercial agriculturists, including landscape contractors."

Services provided by the nation's broad network of extension agents include testing soil, water and tissue samples; publishing educational agronomic brochures; and making onsite visits.

"We try to offer on-site consultation unless we physically do not have the time to do it," says Hartin. "Most of the time it's a one-shot deal. We have a list of consultants who we know are knowledgable that we recommend."

Because of extensive field work, most extension agents have one spe-



Ed Wandtke is one of a "very limited" number.

cific day that they are in the office taking phone calls. If you plan on using extension agents as consultants, make sure you know their day in the office.

"Extension agents are great examples of narrowly-defined consultants," notes Ed Wandtke of All-Green Management Consultants, Columbus, Ohio. "They are uniquely qualified in a certain geographic area. And they're dynamite in that particular area."

Green Section

Superintendents of golf courses in the USGA can take advantage of the USGA Green Section's Turf Advisory Service, which has been in operation

SDI TURF SPRAYERS

Trouble-Free Turf Maintenance Year Round!



Cut Maintenance In Half With SDI

The most advanced spraying devices in turf care that work season after season with trouble free start-ups.

- Nationwide Service Centers
- Non-Corrosive Materials For Long Life
 - 50 to 1,000 Gallon Tanks Available
 - 46 Models to Choose From •

A full line of spray units for Lawn, Turf, Trees and PCO. Send in for free brochure listing all types of units to do the right job for you. Remember, the right equipment goes a long way!

SEND FOR FREE BROCHURE



And find out why SDI is the fastest growing spraying manufacturer in America!

Spraying Devices Inc. P.O. Box 3107 Visalia, CA 93278 (209) 651-1306

Circle No. 157 on Reader Inquiry Card