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FERTILIZE IT, WATER IT, CUT IT,  
SPRAY IT, DIG IT, WHOLESALE IT,  
PICK IT, WEED IT, INVENTORY IT,  
IRRIGATE IT, PINCH IT, DESIGN IT,  
DELIVER IT, ARRANGE IT, POT IT,  
PRUNE IT, RETAIL IT, OR MULCH IT,**



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# Im reports

continued from page 60

## **KROMER CO.** **800/373-0337**

The self-propelled spray unit from Kromer, Mound, MN, can be equipped with four sizes of spray booms: 43-in. one piece with 60-in. swath, 63-in. two-piece folding with 80-in. swath, 103-in. two-piece folding with 120-in. swath and 163-in. three-piece with 180-in. swath and 7-way valve. A 25-ft. hose and gun is available.

**Circle 267**

## **LESCO** **800/321-5325**

The newest design in a 200-gal. sprayer comes from Lesco, Rocky River, OH. It fits sideways into a full-size pickup. Pump, hose and



engine are accessed from curbside of truck. Powered by Kawasaki 5.5-hp FE-series engine and Hypro 403 series 3-piston diaphragm pump. Hannay electric hose reel has 300 ft. of 1/2-in. 800 psi urethane inner core hose.

**Circle 268**

## **MANTIS/LITTLE WONDER** **877/596-6337**

[www.littlewonder.com](http://www.littlewonder.com)  
The Mantis Spray Partner from Mantis/Little Wonder, Southampton, PA, has an adjustable nozzle that changes from gentle mist to powerful jet up to 25 ft. or more. Pump provides 50 psi pressure

and maximum flow rate of 2.2 gal. per minute..

**Circle 269**

## **MASTER MANUFACTURING** **712/258-0108**

The TC1060-008 (14-gal.) and TC1060-009 (25-gal.) Turf Choice spray units from Master Manufacturing, Sioux City, IA, come with non-corrosive poly tank with 5-in. screw-on lid and sit-on flotation tires. They are equipped with a Shurflo 12-volt santoprene diaphragm pump providing 1.4 gpm at up to 60 psi. Comes standard with trigger gun with nozzle that adjusts from hollow cone to straight stream, 25 ft. of hose, and 2-nozzle, 7-ft. cover boom.

**Circle 270**

## **PROFESSIONAL TREE & TURF** **800/237-7785**

[ptte@worldnet.att.com](mailto:ptte@worldnet.att.com)

A complete line of backpack spray systems, including the SP Systems line, is available from Dakota Industries' Professional Tree & Turf Equipment catalog.

**Circle 271**

## **ROGERS INNOVATIVE** **888/975-8294**

[www.rogersinnovative.com](http://www.rogersinnovative.com)

With the ETT2000, a 90-in. drift containment tow sprayer, the wind can blow and the public can look on. Its electric pump connects to your tractor or riding lawnmower's battery with a cable switch near the operator.

**Circle 272**

## **SHINDAIWA** **800/521-7733**

The Model SP415 from Shindaiwa is made of high density, UV-protected polyethylene. Unit comes

with four spray nozzles. The pump handle is reversible for right-handed or left-handed operation.

**Circle 273**

## **SMITHCO** **610/688-4009**

[www.smithco.com](http://www.smithco.com)

The Spray Star 1000 turf sprayer from Smithco, Wayne, PA, has a 160-gal. fiberglass tank and two-wheel mechanical drive. The 3000 has a 300-gal. cross-linked polyethylene tank and two-wheel hydrostatic drive. All units have low centers of gravity and offer three spray control options.

**Circle 274**

## **SNOWEX** **800/725-8377**

The Pivot Pro 1075 tailgate spreader from the TrynEx International SnowEx division, Warren, MI, has pivot mount and maximum torque transmission. The mount requires no drill holes in the truck bed, yet allows spreader to swing away providing full tailgate or rear door access. Includes 12-volt DC motor.

**Circle 275**

## **SOLO, INC.** **757/245-4228**

[www.solo-germany.com](http://www.solo-germany.com)

The 425 backpack sprayer from Solo, Sindelfingen, Germany, comes with padded straps and a 4-ft. sprayer hose. All parts are made of corrosion-resistant plastic. Piston-style pump delivers up to 85 psi from the 4-gal. tank.

**Circle 276**

## **SP SYSTEMS** **800/457-3440**

[www.spsystemsllc.com](http://www.spsystemsllc.com)

The SP2 4-gal. backpack sprayer

from SP Systems, Santa Monica, CA, is capable of 180 psi and uses polyethylene tank treated with UV inhibitors. Spray pistol has brass shut-off pin and double O-rings made of upgraded Viton formula. A 6-in. mouth with built-in strainer makes for easy filling.

**Circle 277**

## **TORO** **800/476-9673**

[www.toro.com](http://www.toro.com)

The Toro 80T and the 50T trailer sprayers both have a 3.5-hp Briggs & Stratton engine that powers a diaphragm pump. A handgun with 25 ft. hose is standard. The 80T from Toro, Bloomington, MN, has a 14-ft. boom with eight nozzles. The smaller 50T has a 6-ft. boom with four nozzles.

**Circle 278**

## **TRI-CON INC.** **800/448-2486**

If you're looking for nozzles, wands, or other related parts, check out the products available from Tri-Con, Cleveland, OH. Among the popular attachments are the S-125 adjustable nozzle water spray gun.

**Circle 279**

## **WYLIE MANUFACTURING CO.**

**800/722-4001**

[www.wyliesprayers.com](http://www.wyliesprayers.com)

Wylie Manufacturing's new spot sprayer is compatible with diesel as a chemical carrier. Available in 15-, 25- or 55-gal. sizes, it features a 12-volt Flojet pump, brass trigger gun, adjustable nozzle and 25 ft. of fuel grade hose.

**Circle 280**

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# Landscape MANAGEMENT

## May 2001

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**1. My primary business at this location is: (fill in ONE only)**

**CONTRACTORS/SERVICE COMPANIES**

- 02  255 Landscape Contractors (Installation & Maintenance)
- 03  260 Lawn Care Service Companies & Custom Chemical Applicators (ground & air)
- 04  285 Irrigation Contractors & Consultants
  - Other Contractors/Service Companies (please specify) \_\_\_\_\_

**LANDSCAPING/GROUNDS CARE FACILITIES**

- 05  290 Sports Complexes
- 06  295 Parks
- 07  305 Schools, Colleges & Universities
  - Other Grounds Care Facilities (specify) \_\_\_\_\_

**SUPPLIERS AND CONSULTANTS**

- 08  355 Extension Agents/Consultants for Horticulture
- 09  360 Sod Growers, Turf Seed Growers & Nurseries
- 10  365 Dealers, Distributors, Formulators & Brokers
- 11  370 Manufacturers
  - Other (please specify) \_\_\_\_\_

**2. Which of the following best describes your title? (fill in ONE only)**

- 12  10 **Executive/Administrator** - President, Owner, Partner, Director, General Manager, Chairman of the Board, Purchasing Agent, Director of Physical Plant
- 13  20 **Manager/Supervisor** - Arborist, Architect, Landscape/Grounds Manager, Superintendent, Foreman, Supervisor
- 14  30 **Government Official** - Government Commissioner, Agent, Other Government Official
- 15  40 **Specialist** - Forester, Consultant, Agronomist, Pilot, Instructor, Researcher, Horticulturist, Certified Specialist
- 16  50 **Other Titled and Non-Titled Personnel** (please specify) \_\_\_\_\_

**3. SERVICES PERFORMED (fill in ALL that apply)**

- |  |   |  |
|--|---|--|
| 17 <input type="radio"/> A Mowing              | 22 <input type="radio"/> F Turf Fertilization   | 27 <input type="radio"/> K Paving, Deck & Patio Installation |
| 18 <input type="radio"/> B Turf Insect Control | 23 <input type="radio"/> G Turf Disease Control | 28 <input type="radio"/> L Pond/Lake Care                    |
| 19 <input type="radio"/> C Tree Care           | 24 <input type="radio"/> H Ornamental Care      | 29 <input type="radio"/> M Landscape Installation            |
| 20 <input type="radio"/> D Turf Aeration       | 25 <input type="radio"/> I Landscape Design     | 30 <input type="radio"/> N Snow Removal                      |
| 21 <input type="radio"/> E Irrigation Services | 26 <input type="radio"/> J Turf Weed Control    | 31 <input type="radio"/> O Other (please specify) _____      |

**4a. Do you specify, purchase or influence the selection of landscape products?**

58  Yes 59  No

**4b. If yes, indicate which products you buy or specify: (fill in ALL that apply)**

- |  |  |  |
|--|--|--|
| 32 <input type="radio"/> 1 Aerators          | 39 <input type="radio"/> 8 Herbicides              | 46 <input type="radio"/> 15 Sweepers                   |
| 33 <input type="radio"/> 2 Blowers           | 40 <input type="radio"/> 9 Insecticides            | 47 <input type="radio"/> 16 Tractors                   |
| 34 <input type="radio"/> 3 Chain Saws        | 41 <input type="radio"/> 10 Line Trimmers          | 48 <input type="radio"/> 17 Truck Trailers/Attachments |
| 35 <input type="radio"/> 4 Chipper-Shredders | 42 <input type="radio"/> 11 Mowers                 | 49 <input type="radio"/> 18 Trucks                     |
| 36 <input type="radio"/> 5 De-icers          | 43 <input type="radio"/> 12 Snow Removal Equipment | 50 <input type="radio"/> 19 Turfseed                   |
| 37 <input type="radio"/> 6 Fertilizers       | 44 <input type="radio"/> 13 Sprayers               | 51 <input type="radio"/> 20 Utility Vehicles           |
| 38 <input type="radio"/> 7 Fungicides        | 45 <input type="radio"/> 14 Spreaders              |  |

**5. Do you have internet access? 52  A Yes 53  B No**

**5A. If so, how often do you use it?**

54  A Daily 55  B Weekly 56  C Monthly 57  D Occasionally

101	113	125	137	149	161	173	185	197	209	221	233	245	257	269	281	293	305
102	114	126	138	150	162	174	186	198	210	222	234	246	258	270	282	294	306
103	115	127	139	151	163	175	187	199	211	223	235	247	259	271	283	295	307
104	116	128	140	152	164	176	188	200	212	224	236	248	260	272	284	296	308
105	117	129	141	153	165	177	189	201	213	225	237	249	261	273	285	297	309
106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300	312
109	121	133	145	157	169	181	193	205	217	229	241	253	265	277	289	301	313
110	122	134	146	158	170	182	194	206	218	230	242	254	266	278	290	302	314
111	123	135	147	159	171	183	195	207	219	231	243	255	267	279	291	303	315
112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	304	316

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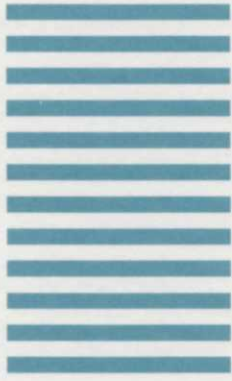




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**Landscape**  
MANAGEMENT

May 2001

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 \*Is this your home address?  Yes  No  
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 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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- 23  G Turf Disease Control
- 24  H Ornamental Care
- 25  I Landscape Design
- 26  J Turf Weed Control
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- 30  N Snow Removal
- 31  O Other (please specify) \_\_\_\_\_

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- 39  8 Herbicides
- 40  9 Insecticides
- 41  10 Line Trimmers
- 42  11 Mowers
- 43  12 Snow Removal Equipment
- 44  13 Sprayers
- 45  14 Spreaders
- 46  15 Sweepers
- 47  16 Tractors
- 48  17 Truck Trailers/Attachments
- 49  18 Trucks
- 50  19 Turfseed
- 51  20 Utility Vehicles

5. Do you have Internet access? 52  A Yes 53  B No

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101	113	125	137	149	161	173	185	197	209	221	233	245	257	269	281	293	305
102	114	126	138	150	162	174	186	198	210	222	234	246	258	270	282	294	306
103	115	127	139	151	163	175	187	199	211	223	235	247	259	271	283	295	307
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105	117	129	141	153	165	177	189	201	213	225	237	249	261	273	285	297	309
106	118	130	142	154	166	178	190	202	214	226	238	250	262	274	286	298	310
107	119	131	143	155	167	179	191	203	215	227	239	251	263	275	287	299	311
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# ask the expert

BY BALAKRISHNA RAO

## Salty situation

**I manage turf in the central San Joaquin Valley of California with high levels of salts, chlorides and sodium in the soil. Common bermuda and tall fescue are dominant grasses (in different areas). What are the best seed choices for overseeding or for the seeding of new lawns, in soils of this type?**

— CA

According to the adaptation map, both the tall fescue and bermudagrass will grow in your area. However, the National Turfgrass Evaluation Program (NTEP) report indicates that bermudagrass tolerates salt very well, while tall fescue tolerates salt only moderately well. As far as alkaline tolerant turfgrass, only bermudagrass was mentioned. For the most current information on tolerant species, check out the NTEP's Web site at [www.ntep.org](http://www.ntep.org).

## Pine needle scale and sawfly

**Mugo pine and other pines on our clients' properties are affected by pine needle scale and pine sawfly every year. How well does Merit insecticide control these diseases?**

— PA

One way to manage pine needle scales and pine sawflies is to use the multiple target principle, which allows you to gain control of more than one pest with an insecticide application. Before you do this, check if the product is active on other target pests and the timing coincides.

Pine sawfly is on Merit's label, so it should manage the problem well. The reason Merit can manage sawflies is that it's

root absorbed and moves to new candles. If the soil is dry when you apply the product, irrigate to improve its movement within the plant. This increases its effectiveness.

Treat for pine sawflies in the fall for best results. Merit will manage the larvae when they hatch and feed on the new growth the following spring.

If you miss the fall treatment, treat early in the spring, early March, if possible. Sawfly eggs hatch during late April or early May. Be aware, however, that if the soil is saturated from melting snow or rain, the product uptake may be affected. Another problem is the short duration between treatment time and egg hatch. Also, if the pine trees are large, the product may not be distributed fast enough throughout the tree to protect the needles.

Don't expect a good result from managing pine needle scale with Merit, particularly if the scale infestation is heavy. Pine needle scale is a sucking pest with a hard or armored scale cover. You may get some suppression from the treatment, but reports indicate you can't depend on the treatment for scale management. After treating in fall, monitor the population the following spring. If scales are present and still alive, provide management as needed.

## Insecticide failure

**I applied insecticide to a client's property, but it didn't solve the problem. What could have gone wrong?**

— VT

Several factors may be responsible for poor insect and mite control on ornamental trees and shrubs.

Here are several beyond those I detailed

in last month's *Landscape Management* article, "Why Insecticides Fail," found on page 58.

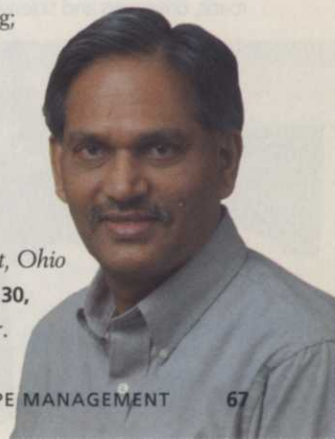
Failures related to lack of product knowledge include: improper selection of product or formulation; slow activity on target pests; too-high customer expectations; low concentration of mix; failure to penetrate surfaces; phytotoxicity; product is too old or photodegraded; solvent in the mix; volatilization; spoiled or separated product; high pH of water; chemical incompatibility of products or product has the wrong type of activity; and several others. Short or no residual effect or heavy pest infestation may also come into play.

Failures related to misunderstanding the treatment methods include miscalculating the active ingredient; improper mixing/agitating; improper tank cleaning; lack of surfactant or buffering agents if needed; failure to incorporate into soil; too much organic matter inhibiting application from reaching pest; failure to water-in or use water correctly in mix; failure to apply at proper times; improper equipment or calibration; poor uptake into trees for trunk injections; failure to penetrate insect's protection; rain wash-off; failure to reach the target because of barriers; wind drift; soil conditions; and others.

Failures related to timing involve pest growth stages; incorrect temperature; hatching sequence; emergence after residual is gone; activity only when pest is young; and other factors.

Manager of Research and Technical Development for the Davey Tree Expert Co., Kent, Ohio

**SEND YOUR QUESTIONS TO: "Ask the Expert" Landscape Management, 7500 Old Oak Blvd., Cleveland, OH 44130, or email: [sgibson@advanstar.com](mailto:sgibson@advanstar.com). Please allow two to three months for an answer to appear.**



# products

TECH CENTER

ask the expert  
BY BALAKRISHNA RAO



## What a joy

Kawasaki's new KRB400B backpack blower features a joy stick throttle with a trigger throttle, fully adjustable throttle lock and engine shutoff switch. Both the KRB400A and KRB400B models feature a 3.2-hp Kawasaki engine with maximum air volume of 418 cfm and maximum air velocity of 198 mph. Each blower weighs just over 18 lbs. and, Kawasaki says, is several decibels quieter than last year and has one of the lowest noise levels in its class.

For more information contact Kawasaki at [www.kawasaki.com](http://www.kawasaki.com) / circle no. 250

## Expanded label

The Chipco Professional Products group of Aventis E.S. says that its 26GT fungicide can now be used on ornamentals. With its active ingredient iprodione, 26GT controls a broad spectrum of foliar and borne diseases including rhizoctonia and botrytis. Diseases such as pythium and phytophthora can be controlled when 26GT is combined with Aliette fungicide.

For more information contact Aventis E.S. at 800/438-5837 or [www.aventischipco.com](http://www.aventischipco.com) / circle no. 251

## Groovy removal

FFC Inc.'s Snow Push attachment for skid-steers, tractor loader backhoes and wheel loaders is perfect for removing snow, handling wastewater or cleaning up after a flood. The optional pull-back kit allows the operator to pull back from walls, fences and garage doors by rolling the blade over the material and moving the machine backward. Available in four widths (6.5 ft. to 10.5 ft.), contractors can cover parking lots, roads, driveways and sidewalks.



For more information contact FFC at P.O. Box 122, Lee, IL 60530 / circle no. 252

## Watch the weather

Spectrum Technologies' new family of three WatchDog weather stations lets you monitor, document and analyze site-specific growing conditions. The 900ET weather station monitors evapotranspiration and aids in irrigation scheduling by collecting data on wind speed and direction, wind chill, dew point and more. Up to three optional plug-in sensors gather even more weather information. All three stations feature an LCD display, ready-mount design and internal 8-month battery power source.

For more information contact Spectrum Technologies at 800/248-8873 or [www.specmeters.com](http://www.specmeters.com) / circle no. 253

## Soak that soil

Cascade Plus is a residual soil-wetting agent that uses the basic technology of the original Cascade molecule to provide more consistent, longer lasting water infiltration and performance on localized dry spot. It also offers an improved environmental profile and empirical trendline.

For more information call 800/323-6280 / circle no. 254

## More water distribution

Signature Control Systems' Thompson 286/287 commercial rotor is a plastic rotor that provides more water distribution at a higher pop up than the 186/187 model to clear taller turf-

grasses. It offers five uniform-coverage nozzles for a variety of flow rates. The radius can be adjusted up to 25% for optimum coverage.

For more information contact Signature at 949/580-3640 or [www.signaturecontrolsystems.com](http://www.signaturecontrolsystems.com) / circle no. 255

## Precise mix

CCI Products says its EZ 2-Cycler dual chamber fueling system mixes 2-cycle oil and gasoline precisely, easily and cleanly. All it takes is setting a dial to meet any equipment maker's specifications in ratios, ounces or milliliters. A companion product, the EZ 2-Mixer, mixes liquid fertilizers, pesticides and defoliant with water.

For more information contact CCI Products at 877/224-7763 or [www.ezdispensers.com](http://www.ezdispensers.com) / circle no. 256



## Twice the power

Bobcat Company's new SG60 stump grinder attachment is twice as powerful as the previous model. The company says that using a Bobcat 863 high-flow loader as the power source, it can grind a stump 30 in. in diameter to a depth of 10 in. below grade in less than 10 minutes. The grinding head is mounted 90 degrees to the operator for better visibility, and the swing cylinder generates an arc of 80 degrees, allow-



ing the operator to cut up to a 45-in. stump without repositioning.

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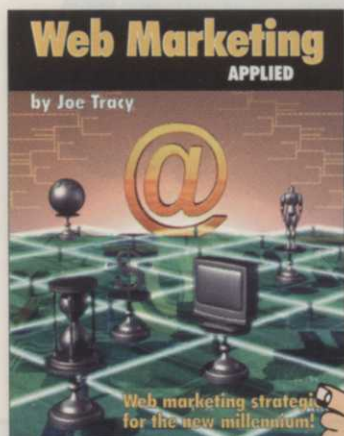
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