



How do you get dependable results in an unpredictable world?



syngenta

**Introducing
Syngenta Professional Products.
A dependable resource for
achieving professional success.**

In your business, unexpected challenges are the rule. But with Syngenta, you have a major exception to the rule.

We're bringing together the industry-leading skills of Novartis and Zeneca Professional Products to create dependable pest management solutions for golf course maintenance, lawn care, greenhouse and nursery operations, vegetation management, pest control and seed treatment.

**The broadest portfolio of
innovative, effective products.**

You can count on Syngenta for category-leading pest management products, including Avid®, Barricade®, Daconil®, Demand®, Demon®, Heritage®, Primo MAXX®, Reward®, Subdue MAXX®, as well as Adage®, Apron XL® and Dividend® XL seed treatments. Environmentally sound products that bring consistent performance to your often inconsistent world. And there are more good things to come.

**An industry-leading research
and development effort.**

In 1999, the companies that formed Syngenta invested \$760 million in research and development and collaborated with more than 400 universities, research institutions and private companies worldwide. Our 5,000-person R&D team, the industry's largest, uses everything from genomics to testing techniques that shorten product development times in an effort to continually raise the bar on pest control chemistry.



At Syngenta Professional Products





ts, we've made it company policy.



**Knowledge and technology,
focused on you.**

The Syngenta people who call on you are highly trained, experienced professionals who will be focused on your business. They will understand the pressures you feel, the uncertainties you face, the best solutions you can use.

And the solutions won't begin and end with products. Our people will also be able to offer leading-edge technologies such as digital predictive pest forecasting models, GPS/GIS applications software, online business management information access and more. After all, when it comes to managing pests, knowledge is power.

**A commitment to the future
of your industry.**

The Syngenta commitment goes beyond products and solutions. We will also maintain strong connections with your industry's associations, including the Golf Course Superintendents Association of America, the Professional Lawn Care Association of America, the National Pest Management Association, Inc., the National Roadside Vegetation Management Association, the Southern Nurserymen's Association and the American Seed Trade Association, among others.

Having a healthy industry, we believe, is a responsibility to be shared by you and us.

We know there will always be parts of your business that are hard to manage.

But every day 20,000 Syngenta employees are committed to delivering solutions you can depend on.



www.syngenta.com

Syngenta Professional Products

No doubt you will see familiar names on this list of products from the Syngenta Professional Products portfolio. And this is just a small sample. In all, Syngenta Professional Products now provides more than 40 products for turf and ornamental, professional pest management, vegetation management and seed treatment applications. To learn more about specific products for your needs, talk to your Syngenta Professional Products representative.

Turf & Ornamental

Avid

**Banner
MAXX**

Barricade

Daconil
Fungicide

FUSILADE[®] II
Herbicide

Heritage
FUNGICIDE

**Primo
MAXX**

REWARD
Landscape and Aquatic Herbicide

TOUCHDOWN
PRO HERBICIDE

**Subdue
MAXX**

Professional Pest Management

DEMAND[®] CS
INSECTICIDE

Demon[®] EC
INSECTICIDE

Demon[®] TC
INSECTICIDE

Talon[®]-G
RODENTICIDE

WeatherBlok[®] XT
RODENTICIDE

Vegetation Management

FUSILADE[®] II
Herbicide

REWARD
Landscape and Aquatic Herbicide

TOUCHDOWN
PRO HERBICIDE

Vanquish
HERBICIDE

Seed Treatment

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ADAGE**

ApronMAXX

ApronXL

DividendXL

**DividendXL
RTA**

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HELIX[®] XTra**

Maxim

MaximMZ

Questions?

For more information on Syngenta Professional Products, call 1-800-395-8873.

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www.syngenta-us.com

Important: Always read and follow label directions before buying or using these products.

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CM1190

SCP 910-00292A



Husqvarna

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GREAT DANE
814/218-7100

Simple design marks the zero-turns from Great Dane, Jeffersonville, IN. The Super Surfer is available in widths of 48, 52, and 61 in., each with either Kawasaki or B&S engines. All models have dual hydrostatic pump and motor, electromagnet cutter blade clutch, 6-gal. fuel tank and dual wheel parking brakes. Floating cutter deck follows contours on rough ground.

Circle no. 266

HUSQVARNA
704/597-5000

www.husqvarna.com

Increasing the ground speed up to 10 mph and increasing fuel capacity to 11.4 gal. (in two 5.7-gal. tanks) greatly increased the productivity of the ZTH6125 from Husqvarna, Charlotte, NC. This unit and all of the new zero-turns feature three engine types: air-cooled, liquid-cooled and fuel injection.

Circle no. 267

KUBOTA
888/4KUBOTA

www.kubota.com

Introduced in February 2001, the 360-degree ZD Series TurfMower from Kubota, Torrance, CA, is built on a unitized chassis that incorporates the transmission as an integral part of the sub-frame. The ZD18 and ZD21 are powered by a liquid-cooled 3-cylinder E-TVCS diesel engine. Front suspension uses a pivoting front axle to follow ground contours. Deck lift allows front of mower deck to be raised easily while built-in jack system allows for servicing without removing the mid-mount mower deck.

Circle no. 268

LASTEC
800/515-6798

www.lastec.com

The Model 412D is an 82-in. wide unit with a 38-hp, 4-cylinder water-cooled Kubota diesel. This zero-turn from LasTec, Indianapolis, IN, features four 21-in. articulating mower decks. Side discharge mulching plate is standard. Three 21-in. blades (high-lift, low-lift or mulching) work at deck heights from 1 to 4.5 in. Roll bar is standard.

Circle no. 269

LESCO
800/321-5325

The latest Viper model from Lesco, Cleveland, OH, is a midmount zero-turn with a 48-in. cutting deck, adding to the current line of 54- and 60-in. mowers. Designed with one-piece welded square tubular steel frame, the newest model is powered by a 19-hp Kawasaki twin-cylinder OHV power plant. Cut height ranges from 1.5 to 5.5 in., adjustable with a new foot pedal. Each deck has four adjustable wheels and front and back rollers to prevent scalping.

Circle no. 270

HOWARD PRICE TURF EQUIPMENT
636/532-7000

The Blazer 360Z leads the line of zero-turns from Howard Price, Chesterfield, MO. Units are available with 52-, 60- and 72-in. cuts, and decks are offset to the left for better trimming around trees. Extra-wide throat allows even grass discharge. Floating front axle provides superb cutting flotation, operator comfort and reduced frame breakage. Units are powered with either a 22- or 25-hp Kohler engine or 23-hp Kawasaki engine.

Circle no. 271

RICH MFG.
765/436-2744

www.convertiblemower.com

Whether you want to walk or ride, the Convertible is one machine that lets you do both. This hydro walk-behind from Rich Mfg., Thorn-town, IN, converts to a zero-turn rider just by

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HUSTLER
800/395-4757

www.excelhustler.com

The new Hustler Z from Excel Industries, Hesston, KS, offers a wide stance with low center of gravity and outstanding machine balance. The 23-hp Kawasaki engine powers a 60-in. deck. Unit has integral park-brake system incorporated into the steering system. Foot-operated, spring-assisted deck lift makes trailering and height changes simple. Optional mulching kit available.

Circle no. 272

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www.power-trac.com

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Circle 127

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Circle 128

Im reports

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pulling a pin. It comes with 48-, 52- or 61-in. deck and choice of Kawasaki or Kohler engines. Grass catcher, sprayer, aerator, thatcher or Convert-A-Barrow options are available.

Circle no. 273

SCAG

920/387-0100

www.scag.com

The Tiger Cub, the latest from Scag, Mayville, WI, is as tough as its big brother the Turf Tiger, but more compact. Decks range from 40 to 52 in. At 10 mph and with a choice of five engines, the newest Tiger can cut up to 23 acres a day. Company offers a three year warranty on the decks and spindles and two years on engines, hydraulic drive systems and electric clutches.

Circle no. 274



SNAPPER

888/SNAPPER

www.snapper.com

The Pro Cruiser line from Snapper, McDonough, GA, has three options. The ZMT2500KH lets those who prefer twin-stick steering over a single joystick find a comfortable option in a zero-turn machine. Its brother, the MZM2200KH, has single joystick steering. Comes

with a 52- or 61-in. mid-mount cutting deck. They're available with a 22- or 24-hp Kohler Pro Command engine. Company's "no tools" belt change and field-serviceable spindle assemblies keep these units on the job. Options for all three models include covered grass catcher, ROPS and Ninja mulching system.

Circle no. 275



Want a new source for pest information?



www.pestfacts.org

Termites, cockroaches, rodents, even poison ivy and other nasty weeds. They're all pests, which means they can cause real problems that pose health and safety risks to children and adults. The good news is now you've got the Pest Facts Information Center at www.pestfacts.org. It's a handy resource discussing the problems caused by pests, as well as the safe and responsible use of urban pesticides and related issues. So don't just sit there...log on.



Im reports

THE TORO COMPANY

612/888-8801

www.toro.com

The Z-Master Compact Mid-Mount Z286E, with electronic fuel injection from Toro, Bloomington, MN, clips along at 10 mph. Like all Z200 zero-turns, the machine boasts the Z Stand Lift, allowing landscapers to raise the deck without additional tools. Features Super Flow System decks which use blade-generated airflow to transport clippings to the discharge chute without dumping. All models are backed by a 1-year limited, 2-year engine and hydro system and 3-year spindle assembly warranty.

Circle no. 276

WALKER MOWERS

970/221-5614

The Walker Mower 2000 Model MT is available with a Kohler 26-hp electronic fuel injection engine option. Designed by Walker, Fort Collins, CO, the injection offers fuel savings of 30 to 40% over the 25-hp model with carbureted engine. New engine package also offers easier starting over a wide temperature range, less maintenance and improved throttle response. Troubleshooting is easy with built-in, automotive-type diagnostics.

Circle no. 277



WOODS EQUIPMENT / 815/732-2141

www.woodsonline.com

Operator comfort, maintenance-free components and a grass collection system are among the features of the M-series Mow'n Machine line from Woods Equipment Co., Rockford, IL. The M2250 has a 22-hp Kohler engine and a 50-in. deck; and the M2560 has a 25-hp Kohler engine and an offset 60-in. deck. Both offer adjustable-suspension seat, ergonomically designed hand controls for single-handed steering and a variety of positions to reduce operator fatigue. Extended-life spindles are guaranteed to not need lubrication or replacement for two years. Tungsten carbide-coated blades stay sharp longer.

Circle no. 278

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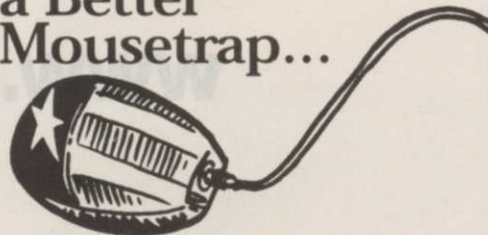
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ask the expert

BY BALAKRISHNA RAO

Ailing spruce

What can I do to improve the health of one of my customer's evergreens?

— MI

The following factors can lead to a spruce being in bad health:

- Improper planting — too deep or too high
- Excess moisture drowning the root system and corresponding top growth
- Excess fertilizer burning the absorbing roots
- No post-planting care, particularly proper watering — too much or too little can affect overall health
- Site related problem affecting establishment of newly planted tree
- Transplant shock
- Girdling from rope or thread at base of plant
- Mite and/or fungal disease like cytospora canker and/or rhizosphaera needle cast

Study the plant on site for these possible causes and provide their corrections as needed. Also, consider sending samples to state or private labs for further diagnosis.

Dursban alternatives

We want to use Dursban for borers. How much longer will we be able to buy and use it, and what are some alternatives?

— IL

According to the EPA, the Revised Risk Assessment and Agreement with Registrants for home lawns and most other outdoor uses concerning Dursban (chlorpyrifos) is as follows: stop formulation 12-01-00; formulators stop sale 02-01-01; retailers stop sale 12-31-01.

A Dow AgroScience representative said that Dursban can be purchased and used

until the end of 2001. After that date, only the inventory can be used until everything is gone. This doesn't mean that you can purchase a large quantity of Dursban to use for an extended period of time because we don't know how long Dow AgroScience, Dursban's manufacturer, will continue the registration for landscape ornamental use. As long as Dursban is registered by Dow AgroSciences, the inventory can be used up.

In the meantime, you should become familiar with insecticides such as Astro, Merit or other pyrethroids. Pay attention to the pests being managed with the particular rates and methodologies that need to be followed. You need to become familiar with the life cycle of specific borers and their number of generations to develop a borer management program.

Consider that, for borers, Astro is applied on trunks and branches, while Merit is applied to the soil. Water after treating with Merit to move the insecticide to the root zone.

Dimension vs. Dimension Ultra

What is the difference between Dimension and Dimension Ultra?

— OH

Dimension 1 EC and Dimension Ultra are formulated differently. Dimension 1 EC is a liquid with a solvent-based formulation that has a warning label due to its potential volatility in the field when applied. It can be stored at below 32°F and has a slightly shorter shelf life than Dimension Ultra.

Dimension Ultra is a powder formulation in water soluble bags. It has a caution label,

but it's safer than Dimension 1 EC. Also, it has a longer shelf life and doesn't volatilize. Therefore, less active ingredient (25% less) can be used per acre than Dimension 1 EC. Dimension Ultra will cost less per acre treated. It shouldn't be stored below 32°F because it may cake. Because of the powder formulation in water soluble packets, Dimension Ultra needs to be agitated while it's being mixed, so it can't be used in backpacks.

In your situation, you may want to have both formulations in your inventory. For mixing smaller quantities without agitation, such as for backpacks or pump sprayers, Dimension 1 EC is the one to use. Dimension Ultra WSP is better for treating larger areas because of its caution label, need for agitation while tank mixing, 25% less active ingredients/acre and lower cost.

As far as the efficacy, both formulations will perform the same. The requirement to wait eight weeks to seed after application is the same for both. Both will have similar broadleaf activity on weeds such as oxalis, spurge, knotweed, henbit, purslane and buttercup.

As far as which one is easier to use, it depends on the equipment and your operational needs. Perhaps the water-soluble bags would be easier than 1 EC formulations because they offer less exposure and eliminate the need for measurement. However, you still need to get the correct calculation of herbicide needed to make the proper treatment mix. If you don't have an agitation system in your application unit, then 1 EC would be easier to use.

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. Please allow two to three months for an answer to appear.

