Setting new course records for disease control

Vorlan is the newest turf fungicide from Mallinckrodt.

It's so good even the old pros are praising it.

On golf courses and in university trials, Vorlan has been consistently setting new records in the control of Dollar Spot (even resistant strains!), Leaf Spot, Red Thread, and Pink Snow Mold. It's great both as a curative and a preventive.

As a bonus, it takes so little Vorlan to be effective — and it provides such long-lasting control — it also sets new records for economy.

If you haven't tried Vorlan, you should. Call toll-free for more information, or contact your Mallinckrodt Turf Products distributor. And act now, to set your own course record for disease control!
### TABLE 2

Ground covers tolerant to pre-emergence herbicides

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<tr>
<th>Ground covers</th>
<th>BETASAN</th>
<th>DACTHAL</th>
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### TABLE 3

Dediduous shrubs tolerant to pre-emergence herbicides

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<tr>
<th>Deciduous Shrubs</th>
<th>BETASAN</th>
<th>DACTHAL</th>
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**What makes Ryan® big aerators worth the investment:**

Large area cultivation plus five choices of tines to get to the root of your problem fast.

Chances are, your turf is slowly choking to death.

Every time you cut grass, it gets harder for water and fertilizer to seep down through the thatch build-up.

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Ryan solves your turf problems with an aerator specifically built for your type of turf.

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To aerate flat expanses of turf (like athletic fields), choose the Ryan Tracaire®.

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And both let you vary the amount of aeration with a unique system of interchangeable tine wheels:

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- And **open-spoon** tines to prepare the turf for new seed and fertilizer in the fall.

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**A free demonstration.**

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On your own grounds.

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Applied Biochemists, 
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Mequon, WI 53092. 
(414) 242-5870.

BASF Wyandotte, 
100 Cherry Hill Rd., 
Parsippany, NJ 07054. 
(201) 263-0200.

Bulkem Corp., 
400 Northtown Rd., 
Normal, IL 61761. 
(800) 447-4131.

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

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<th>ELRIDE</th>
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BETASAN, CASORON, DACTHAL, DEVRINOL, ELRIDE, EFFRAME, FURLOE IP, ORNAMENTAL, POREP, PRINCEP, RONSTAR, TREFLAN.
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Mankato, MN 56001, 507-345-5083

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Rollins Machinery Ltd. (B.C.)
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Teamed with HUSTLER’S new 60-inch 3-Way Deck, the Hi-Lift BAC-VAC will quickly cut and vacuum your turf to perfection. And, just as perfectly, the Hi-Lift BAC-VAC hydraulically raises 4.5 feet to easily deposit its 15-bushel capacity load into a container or the bed of a pickup truck. Plus, you do it all without ever leaving the operator’s seat! In moments, you’re off mowing again.

The Hi-Lift BAC-VAC hopper stows behind the operator’s position. This permits an unobstructed view out front and to both sides. It also permits the same close trimming capabilities HUSTLER is known for.

This efficient grass vacuuming system is available only on the HUSTLER 275, 295 or 305 D tractor. The HUSTLER Hi-Lift BAC-VAC attachment and drive-wheel steering saves time and labor costs, plus you cut more grass faster with a finer cut than any other mower in its class. It’s one more reason why HUSTLER is... worth the difference!

The Hi-Lift BAC-VAC maneuvers as well around trees and obstacles as it does on the flat.

There are six HUSTLER models ranging from 18 to 32 hp with a host of attachments to meet year-round needs.

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(215) 587-7000.

Regal Chemical Co.,
PO Box 641,
Alpharetta, GA 30201.
(404) 475-4637.

Rhone Poulenc Inc.,
Agrichemical Div.,
PO Box 125,
Monmouth Junction, NJ 08852.
(201) 297-0100.

Rohm & Haas Co.,
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Philadelphia, PA 19105.
(215) 592-3000.

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

SDS Biotech,
7528 Auburn Rd.,
Painesville, OH 44077.
(216) 357-3000.

Stauffer Chemical Co.,
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Tournament Speeds Push Greens to the Limit

For the sake of members who want their putts to roll "the way they do on TV," superintendents have spent the past decade or so pushing grass plants to the limit in the pursuit of ever faster green speeds.

Increased attention to Stimpmeter readings have resulted in more cross-cutting, lower cutting heights and induced drought practices to give putters a snappy roll as they try to save par.

Sherwood Moore, whose Winged Foot Golf Club was named one of the top ten courses in the country by Golf Digest, has been quoted as saying he believes preoccupation with the Stimpmeter has gone too far. Unless superintendents start easing off green speed, Moore believes troublesome problems will pop up within a few years.

But what are the long-term impacts of these cultivation methods? Long range studies on green speed practices have not been conducted, but Jim Snow of the United States Golf Association Green Section said he's noticing some things that may be connected to high speed cultivation practices. Snow said he's observed an increase in moss on northeastern greens in the past year, and he believes this may be partly due to superintendents' efforts to please their members. "In the next few years we'll probably see more moss and other problems," associated with increased stress on greens, he said. Snow agrees that faster greens are generally desirable, but he's concerned that in the rush to speed up the roll, "we may... preoccupation with the Stimpmeter has gone too far.

"I caught so much grief I don't do it (encourage fast greens) anymore." —Tom Goetz II

Goetz' greens in the hilly Pennsylvania countryside have slight slopes, "and they just couldn't hold the ball" after close cutting, he explained.

The average player just wants a reasonable chance to sink the putt—he doesn't have to have tournament-like conditions to enjoy his round, Goetz noted. "But when you get to these huge greens, I think that's when speed becomes a factor."

At any rate, Goetz believes the concept itself is oversold.

"The average player just wants a reasonable chance to sink a putt..." —Goetz

"Sometimes, when I talk to other superintendents, the first thing they ask me is 'how fast are your greens,' like it's a big point," he said.

It is a big point to Wayne Zoppo, whose clients at Agawam Hunt in East Providence, RI, feel high green speeds "are very important."

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"Everything you do (for faster greens) has to be fine tuned to head off disease."
—Wayne Zoppo

that his greens averaged 10.5 feet on the Stimpmeter during the 1983 season.

Any problems? "None," Zoppo says.

The only thing he does differently now is use putting green mowers "a lot more often" to cut the circles of greens instead of his hydraulic machines.

The only problem Goetz encountered when he worked for speed was wheel rings on the green from his triplex mowers, he said.

But "everything you do has to be more fine tuned," to head off disease problems, Snow said. Someone should be on the course every day checking those low-cut greens and have the expertise, time and equipment to quickly respond to deficiencies. Snow warned that the increased cost and expertise required to properly maintain fast greens, "may leave a lot of fellows unprepared" to care for their courses properly.

Penn State University's Dr. Joe Duich has done extensive research on green speed, and his tests identify lower cutting heights and reduced fertilization rates as the most predictable ways to boost ball roll.

Middle ground
Duich too, has called for moderation in the race for the fastest green on the block, and reminds superintendents to strive for consistent playing speeds across the entire course and not simply the fastest surface they can muster.

Rather than shoot for the ever-faster green, "Raise it (the cutting height) as high as your membership will permit," bermudagrass expert Glenn W. Burton said flatly. "As a general principle, mowing that close is bound to weaken that plant, and I think, likely to increase its susceptibility to increased wear damage and other diseases."

He echoed Snow's suggestion about checking the greens closely every day during the season to try and head off problems. While noting "if the plant had its way, you'd never cut it," Burton observed, "the turf is out there for the game of golf—we have to satisfy that golfer."

One way to help close-cut plants, he noted, is to raise cutting heights as far as possible in the autumn to help quick recovery the following spring. Burton also said increased autumn watering will help the plant rest easy during the winter.

Tony Caranci, superintendent at the Ledgemont Country Club in Seekonk, MA, keeps moisture in

"Strive for consistent speed across the entire course."
—Dr. Joe Duich