



No matter how tough your weed problems, you can depend on a Trimec Complex for a specific solution.

Furthermore, Super Trimec is not only extremely economical in terms of cost per acre, but it is also very friendly to the environment in that one gallon covers four acres.

If, however, you are unable to apply your first broadcast until later in the season — when the temperature is up around 75° and the weeds are actively growing — don't fret about the lost time. Simply apply the one-and-only original Classic Trimec. You'll get the same excellent weed control, and your cost per acre will be slightly less (which will help you justify not getting out earlier with Super Trimec).

Depending on the season and the

condition of your turf, you may or may not need another application of Classic to treat summer annuals.

If crabgrass, goosegrass or dallisgrass become a problem, even in spite of your pre-emerge precaution, don't worry. Trimec Plus will take them out — usually with one application — without discoloring your Kentucky bluegrass or bermuda grass. And, of course, Trimec Plus will also control any broadleaves that are present.

Certainly Trimec Plus is the ultimate post-emergent herbicide... we have never introduced a new product that has met with such universal approval.

## Why only a Complex is right for weed control in ornamental turf:

Historically, the chemicals used to control weeds in ornamental turf were developed for use in agriculture, where 80% weed control is considered acceptable.

And while Trimec was specifically developed for ornamental turf, it was originally formulated by tank-mixing ag-grade 2,4-D; ag-grade MCP; and ag-grade Banvel® (dicamba).

Although the original Trimec immediately and dramatically improved weed control over that of any other herbicide, the tank-mixing procedure of ag-grade chemicals resulted in minute inconsistencies in the chemical composition of individual droplets, with consequent inconsistencies in weed control.

To eliminate these inconsistencies, we developed a technique of reacting the acid components of Trimec together to form a unified salt Complex in which every droplet of every production run would always be an exact mirror image of the total.

The manufacturing process involved in making a Trimec Complex is a trade secret, but the basic building block is known to all chemists. It is technical

dicamba (the active ingredient of Banvel) that triggers the synergistic activity and makes it chemically possible to react the acids into a Complex.

Of course, it is this same Banvel synergism that enables Trimec Complexes to be so effective with such a small amount of active ingredients... which in turn contributes to Trimec's unparalleled safety record, as demonstrated by the fact that more than 30 million acres of turfgrass have been treated with Trimec, and there has never been an instance in which damage to trees and ornamentals was proven to be the result of root absorption traced to Trimec when applied according to label directions.

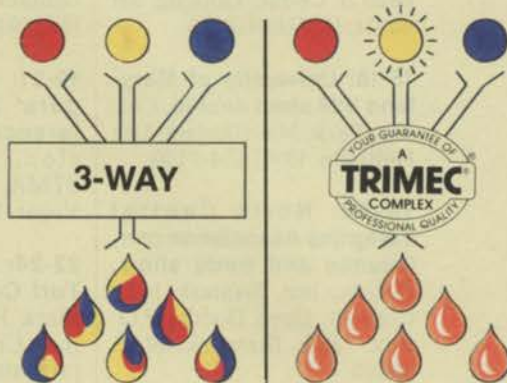
Technical Banvel acid is the key! And since PBI/Gordon has the exclusive turf use of technical Banvel acid in North America, only PBI/Gordon can make Trimec.

### Do you have a weed problem?

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Ag-grade 2,4-D    Ag-grade Banvel    Ag-grade MCP  
Tech. 2,4-D acid    Tech. Banvel acid    Tech. MCP acid



Color code: Red, 2,4-D; Yellow, Banvel; Blue, MCP; Amber, Complex acid. Note: Colors are for code only and do not in any way indicate the color of the product they are intended to identify.

### Schematic drawings show the differences between a tank-mix and a Complex

These drawings indicate that, in a formulator's tank-mix (left), the molecules of 2,4-D, MCP, and dicamba do not combine to form a new molecule. Accordingly, each droplet will contain its own unique amount of one or more of the ag chemicals, and control may vary from droplet to droplet.

In a Complex (right), the three acids are reacted together to form a salt Complex. When this is formulated with the other important ingredients, wetting agents, dispersants and sequestrants, as well as with continuous analytical monitoring that includes the use of a high-pressure liquid chromatograph, the unique product that is Trimec becomes a reality. Every droplet is an exact mirror image of the total, and thus precisely optimizes the intended synergistic activity.

The differences between a tank-mix and a Complex become major when the goal is cosmetic excellence.

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**G** pbi/gordon  
CORPORATION

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# TRIMEC®

# EVENTS

## JANUARY

**15-17: 60th Annual Michigan Turfgrass Conference**, Clarion Hotel, Lansing, Mich. Contact: Clarion Hotel & Conference Center, 6820 S. Cedar, Lansing, MI 48911; (517) 694-8123.

**15-18: University of Maryland IPM short course**, College Park, Md. Contact: Lee Hellman, (301) 454-7130.

**16-18: North Central Turfgrass Association conference and trade show**, Holiday Inn, Bismark, N.D. Contact: Dave Dodds, P.O. Box 7262, Bismark, N.D. 58502.

**17: New York Turf & Landscape Association conference and show**, Westchester County Center, White Plains, N.Y. Contact: Bill Renzetti, P.O. Box 307, Scarsdale, N.Y. 10583; (914) 636-2875.

**17-18: Western Plant Growth Regulator Society annual conference**, Red Lion Inn, San Jose, Calif. Contact: Wanda Graves, (415) 793-4169. To submit papers for presentation, contact Warren Bendixen, (805) 934-6240.

**19-21: Sports Turf Managers' Association conference and show**, Houston, Texas. Contact: STMA, P.O. Box 94857, Las Vegas, NV 89193-4857.

**22-24: Midwest Regional Turf Conference**, Adams Mark Hotel, Indianapolis, Ind. Contact: Jeff Lefton, (317) 494-9737.

**24: Inland Northwest Turf and Landscape Trade Show**, Spokane (Wash.) Convention Center. Contact: Jones & Associates, N. 908 Howard St., Suite 200, Spokane, WA 99201-2261; (509) 327-5904.

**28-30: Wisconsin Arborist Association annual conference**, Hyatt Regency, Milwaukee, Wisc. Contact: Richard Haas, 7300 Chestnut St., Wauwatosa, WI 53213.

**29-30: "Think Trees" Conference**, Holiday Inn Pyramid, Albuquerque, N.M. Contact: New Mexico State University Cooperative Extension, (505) 243-1386.

## FEBRUARY

**1-2: Univ. Alaska/Fairbanks Greenhouse and Nursery Conference**, Soldotna, Alaska. Contact: Cathy Wright, S.R. Box 7440, Palmer, AK 99645; (907) 745-4119.

**4: Women in Horticulture Conference**, Sea-Tac Marriott, Seattle, Wash. Contact: Bill Collins, 18824 93rd

Ave. NE, Bothell, Wash., 98011; (206) 485-1283.

**4-7: Associated Landscape Contractors of America annual convention**, Krystal Vallarta Hotel, Puerto Vallarta, Mexico. Contact: ALCA, 405 N. Washington St., Suite 104, Falls Church, VA 22046; (703) 241-4004.

**7-8: Ohio State Univ. Lawn Care Seminar**, Parke Hotel, Columbus, Ohio. Contact: Sue White, (614) 292-7257.

**7-8: ALCM Landscape Conference**, Sheraton Inn, Boxborough, Mass. Contact: Greta Staley, 288 Walnut St., Suite 300, Newton, MA 02160; (617) 964-0452.

**14-16: American Sod Producers Association Midwinter Conference**, Walt Disney World Hilton. Contact: ASPA, 1855 Hicks Road, Rolling Meadows, IL 60008; (312) 705-9898.

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# TOURNAMENT-LEVEL MANAGER

The four courses at Pebble Beach represent the ultimate challenge in country club management. As director of operations, D. J. Pakkala wouldn't have it any other way.

By Terry McIver, associate editor

**A**s Director of Golf Course Operations for the Pebble Beach Co., D.J. Pakkala manages four of California's finest country clubs. He faces the challenges of multiple golf course management daily.

Just imagine your busiest day multiplied by four. The simple math yields a complicated answer.

Pakkala agrees that the challenges of being in charge of four courses are entirely different than the responsibilities for one. But he delegates well to each of his superintendents: Carl Rygg, Pete Bibber, Larry Norman and Bill Davis.

"Thanks to the climate, we're growing grass on a daily basis, and I serve as a consultant," says Pakkala. "I'm an agronomist who can answer my staff's questions and advise them on the way we ought to maintain the course."

But Pakkala does not rule with an iron hand. He has earned the respect of his superintendents, largely for his respect of each man's talent and experience.

"D.J. allows each of us to exercise individual expertise in maintaining the courses," says Rygg. "There are high standards for each course, but we can address our problems with our individual techniques."

"He's also positive about any situation. With D.J., the glass is always half-full."

Pakkala's responsibility for the quality of play and appearance of the Pebble Beach, Spanish Bay, Spyglass Hill and Del Monte courses makes him a different sort of public relations specialist. He represents the Pebble Beach Co., "and that means representing perfection; there's always room for more."

That perfection has made the Pebble Beach courses the locale for many a television commercial or magazine ad. And of course, many a golf pro has visited the famed links. The U.S. Open was played there, and it returns



*'I once realized that if I were to die tomorrow, the golf course would still be here. That puts it into perspective.'*

—D.J. Pakkala

in 1992. Thus, Pebble Beach holds a place in golf history as the only public course in the U.S. to host a major professional tournament.

## Professionalism grows

Pakkala thinks one man in charge of many tracks is becoming a common job description, thanks to a wealth of qualified turfgrass experts. Good college training is thus an important first step for turf managers.

"The business is now so technical," says Pakkala. "You're more involved with the environment, more familiar with the laws that have to do with chemicals and their effects on the environment. I don't think there's any other way of being successful in the business without having been trained in a college or university. A lot are trained in business, economics or

accounting and then go into turfgrass management. The love of the outdoors, of being in a growing environment, is the common thread."

And of course, there's the love of the game. "Most all (superintendents) have some love of golf," says Pakkala. "It fits in well with their personal lifestyle."

## Opportunities abound

Although many qualified experts occupy the turfgrass profession, golf's growth will bring increased job prospects. Pakkala believes, as do many industry observers, that the golf boom will continue for the next 15 years.

"I also see a trend," he predicts, "in which many development companies are hiring people like myself, people who have been in the business for 15 to 20 years, to manage their golf facility from start to finish. Developers need a person to represent the owner, who can relay information to the architect and contractor, and to serve as a liaison between the architect and developer."

"As I understand it, the only thing to keep us from the one-course-per-day goal is lack of builders. There are many architects and designers, but we need more builders."

## Choosing a life

Pakkala's own passion for golf and the green industry began when he was 11 years old. His desire to play the game was so strong he'd hitchhike to the local course to get in a game before dark. Sitting down later to a warmed-over dinner was the trade-off, but to D.J., it was a worthy compromise.

His original career interest was in mathematics. But during college, his love of the outdoors guided his instincts to change his major to turfgrass science.

"I didn't know whether I wanted to be punching computers or working in an office all day long," he remembers. "That's when I made the change."



The oceanfront links of Spyglass Hill are under the watchful eye of D.J. Pakkala and superintendent Bill Davis.

His first superintendent assignment was at age 29.

Pakkala established another first for superintendents when he did occasional television commentary for nationally-broadcast tournaments such as the Bob Hope Classic and Dinah Shore Open in Palm Springs, Calif. "I used my experience with the game and my turf expertise to provide unique insights into course design and turf characteristics, and how they affect tournament play," he notes.

#### Biologicals an answer

Pakkala's multi-course duties expose him more than ever to the conflicts between chemical companies and environmentalists. Pakkala supports developments in biotechnology as a solution.

"I believe that chemical producers are doing their utmost to work with the EPA and environmentalists in producing products that are safe on the environment," he says. "And they're spending a lot of money in research and development to put their products on the market. The more they can work within integrated pest management—using natural means to take care of those pests they have difficulty with—the more they will be working together with the environmentalists...and the safer we're all going to be.

"I think it's an educational process. The GCSAA and the USGA have done a lot of work and are still working on it, sharing with the uninformed pub-



D.J., Tom Weiskopf, left, and architects discuss design issues at the Del Monte course.

lic what we're really doing."

Pakkala says the biggest challenge to any greens manager is "to tie it all in with Mother Nature. The hardest thing to deal with is the 24-hour-a-day possibility of changes in the weather. "Weather affects everything we do as managers, from the amount of play, to diseases that may be brought about by

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*'I believe chemical producers are doing their utmost to work with the EPA and environmentalists in producing products that are safe on the environment.'*

—D.J. Pakkala

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certain weather conditions."

#### Work hard, stay healthy

If professional golf course managers are to keep pace with rapid change in the industry, they must, Pakkala believes, take care of themselves first.

"Superintendents on today's best courses are under stress every day," he explains. If the course is a member-only operation, a superintendent could have numerous people offering opinions or complaints. For these reasons, Pakkala believes it is increasingly important that a superintendent not forget his well-being, his family's well-being or his job responsibilities.

He insists that, "We've got to become more aware of ourselves as persons. Lots of guys work 12-hour days for 12 months of the year. We need to be conscious of that. I once realized that if I were to die tomorrow, the golf course would still be here. That puts it into perspective.

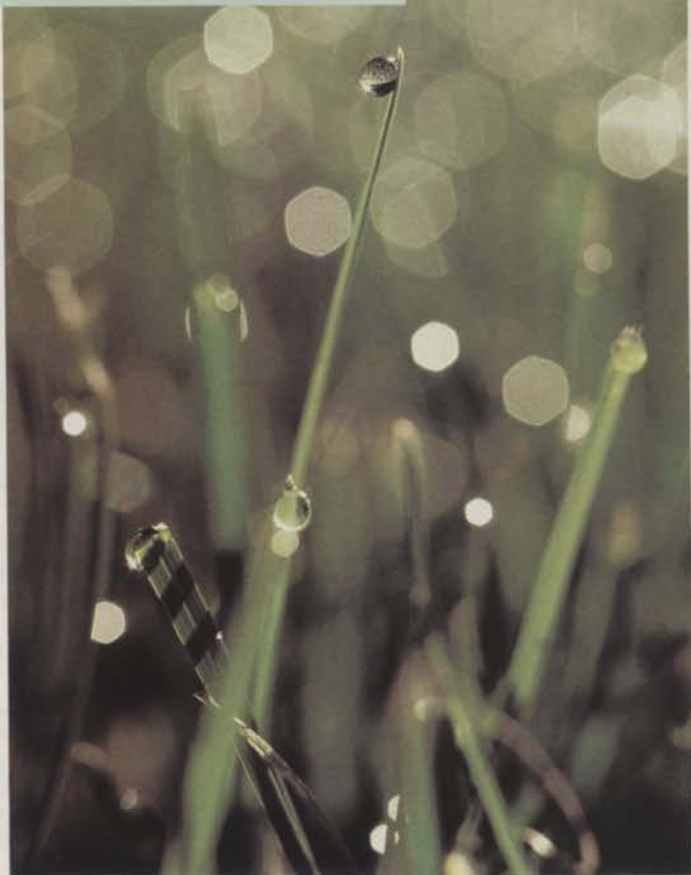
"There is a tendency," Pakkala explains, "to take the attitude that it's my golf course, and it's my responsibility. That's certainly noteworthy. But not to the extent that we forget about everything else."

Being on the Pacific shoreline offers Pakkala a welcome escape should his day ever get a bit too hectic.

"Go down to the ocean; look out and watch the gulls flying around without a care in the world. The Lord takes care of them. It leaves you with the impression that nothing really matters."

LM

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**IN THE FEBRUARY ISSUE**  
OF  
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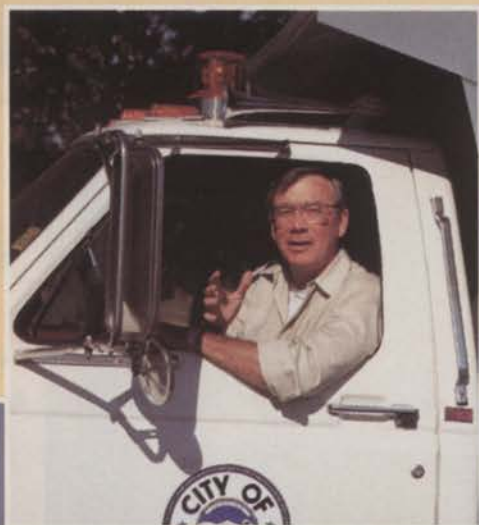


## **STRATEGIES FOR MANAGING WATER TODAY AND TOMORROW**

Landscape and turf managers shouldn't miss this eight page supplement in next month's issue which explains the practical uses and benefits of Aquatrols Water Management Products. Find out how AquaGro®, Super-Sorb® and FoliCote® make *the most efficient use of available water* to help you grow and maintain healthy turf, trees and shrubs.

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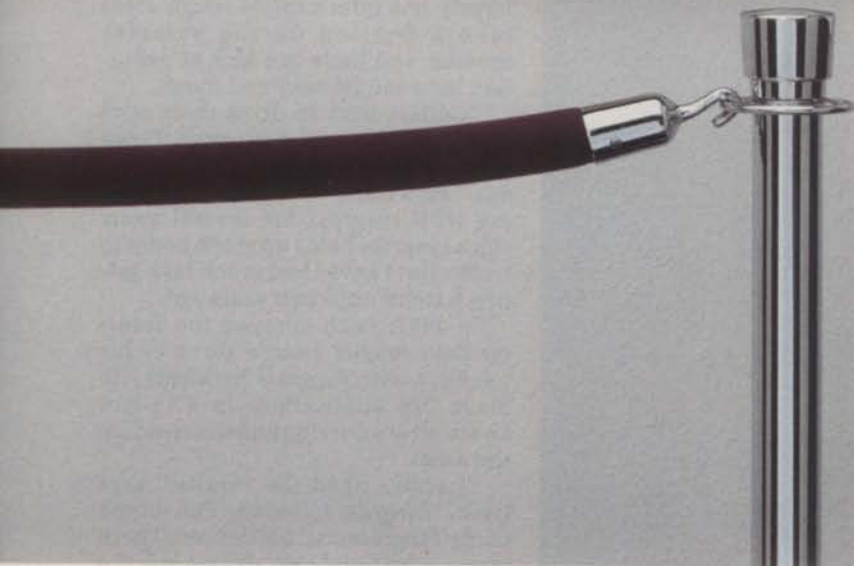
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# TOUGH ROUGHS

Does your golf course look a little 'rough around the edges?' There's a way to polish that look, as proved by courses in Pittsburgh and Cleveland.



"On those areas I treated, it looked like someone spray-painted the intermediate roughs a dark green," says Ed Lach, of Edgewood Country Club.

If it's not one thing, it's another.

The trend toward lower fairway mowing heights and other cultural practices has created a neater, lusher fairway appearance and helped reduce *Poa annua* on many golf courses in the northern U.S. But better looking fairways only make shaggy or worn-out roughs look worse.

So after focusing their primary attention on fairways, greens and tees for many years, some golf course superintendents are now concentrating on getting their roughs up to par.

Penn State turf graduates Ed Lach and Terry Bonar are prime examples.

Since becoming golf course superintendent at Edgewood Country Club in Pittsburgh six years ago, Lach has upgraded the 18-hole golf course's overall appearance dramatically. Aesthetics have been improved by adding a number of flower and ornamental beds and planting additional trees throughout the roughs.

## Building character

When Lach began contouring the fairways to "give them a bit of character," part of his fairways became the edges of his roughs. As such, they contained a high percentage of *Poa annua*. These largely *poa* intermediate rough areas take a beating during summer months, and there is a lack of definition between fairway and rough.

"Golfers tend to drive their carts along the edges of the fairways. Those areas suffer most from traffic damage," says Lach. "I've been overseeding with ryegrass for several years since ryegrass holds up much better to traffic. But I never had much luck getting a stand until two years ago."

In 1987, Lach sprayed the intermediate roughs around three of his fairways with Prograss herbicide. He made two applications in a 15-foot swath after aerifying and overseeding the areas.

"I really liked the results," says Lach. "Prograss killed the *Poa annua* so the ryegrass could take hold. There was a night-and-day difference the next spring between those three fairways and the rest of the course. On the areas I treated, it looked like someone had spray-painted the intermediate roughs a dark green. The ryegrass population increased to around 85 percent. I was so impressed I treated all of my intermediate roughs with Prograss the following year."

Lach is also updating his tree maintenance procedures. Instead of spending countless man-hours hand-trimming under trees, his crews spray a mixture of Roundup and Surflan in a neat circle around the trunks. As well