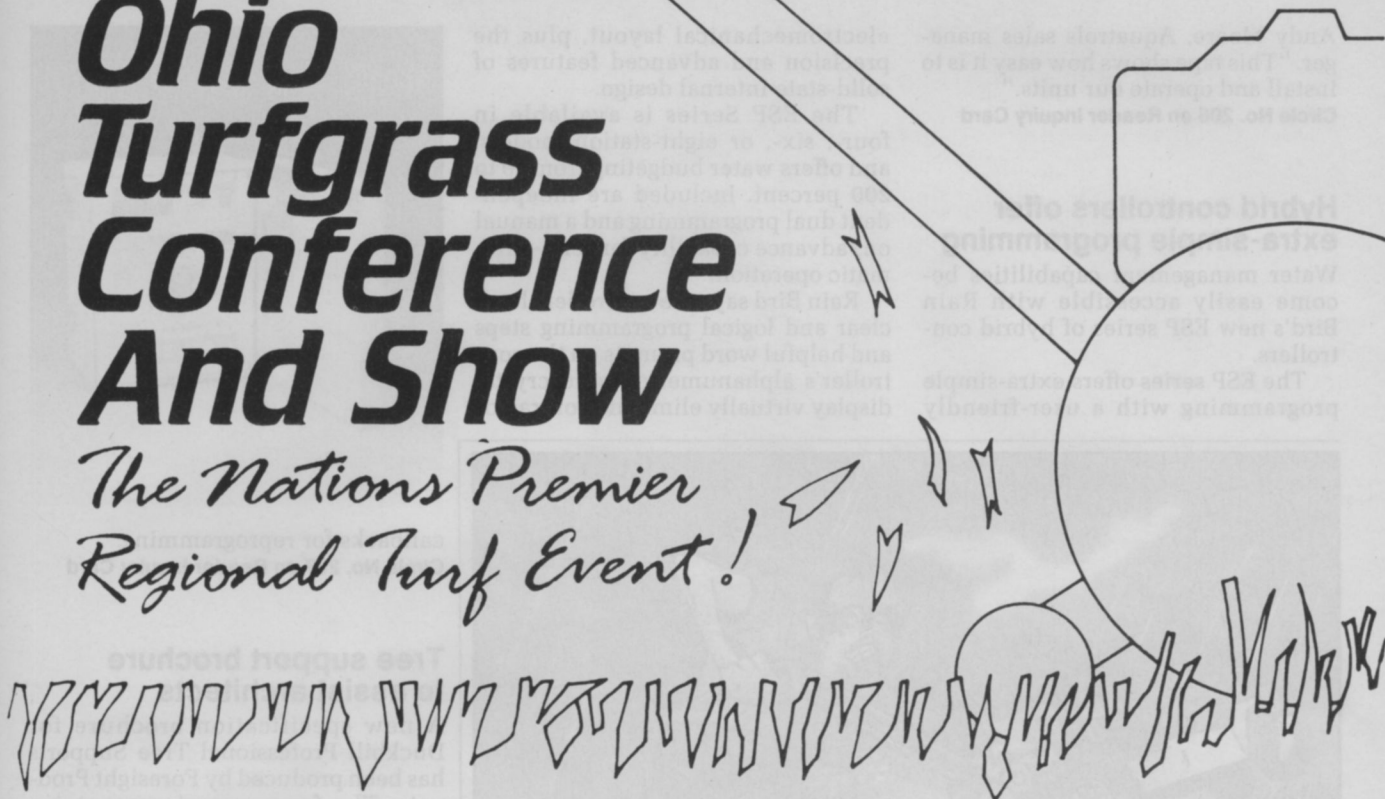


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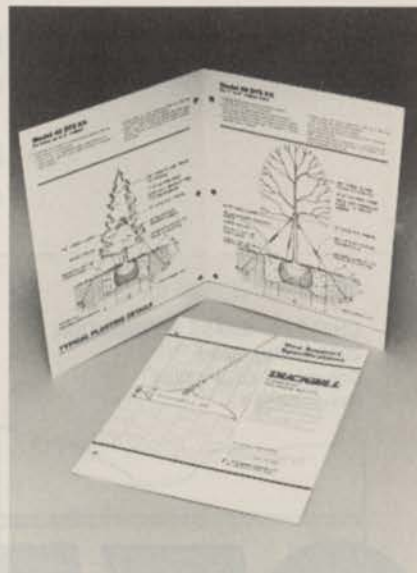
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Tree support brochure to assist architects

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The Duckbill Professional Tree Guying kits include three pre-assembled guy lines, each consisting of a Duckbill anchor, galvanized steel cable, turnbuckle, tree collar and all necessary hardware.

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AD INDEX

SOD blends of four bluegrasses or bluegrass and perennial ryegrass blends shipped via our trucks within 300 miles of Pittsburgh. Penncross bent sod shipped within 1,000 miles of Pittsburgh. Vicnor Farms, Connoquenessing, Pennsylvania 16027. 412-789-7811. 11/90

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Two Vermeer Tree Spades: *T-44 on C-30 '82 Diesel Chevy, Like New \$11,500. *T-66 on C-65 '73 Gas Chevy, \$11,000. (405)842-7177. TF

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BUCKET TRUCKS, Straight Stick, Corner Mount and Knuckle Boom Cranes. Brush Chippers - New Asplundh (Morbark Disc Type), New Asplundh Drum Type. Best prices anywhere. Used Chippers - Asplundh, Woodchuck, etc. 2 to 8 usually in stock. Sprayers, Dumps, Stakes, Log Loaders, Crew Cab Chip Box Dumps, Railroad Trucks, 50 in stock. Sold as is or reconditioned. Opdyke's, Hatfield (Philadelphia Area) 215-721-4444. TF

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NO. ADVERTISER PAGE NO.

101	Bartlett Tree Experts . . .	50
102	Bowie Industries, Inc. . . .	8
103	Deere and Co., John	2-3
104	DowElanco/ Broadway	28-29
105	DowElanco/Team	13
106	Excel Industries, Inc. . . .	25
107	Exmark Manufacturing Co., Inc.	52
108	Growth Products LTD.	14
109	Howard Johnson Enterprises	23
110	Jacobsen Div. of Textron	CV3
111	Lebanon Chemical Corp.	21
112	Lesco, Inc.	45
113	Lofts Seeds, Inc.	CV4
114	Lowe Manufacturing Co.	12
115	MVTGA	11
116	Mobay Corp.	22
117	Nor Am Chemical Co. . . .	37
118	Ohio Turfgrass Association	51
118	Olathe Manufacturing, Inc.	41
119	Olathe Manufacturing, Inc.	41
120	Olathe Manufacturing, Inc.	41
122	Ransomes, Inc.	15
124	Spraying Devices, Inc. . . .	7
295	Simplicity Manufac- turing, Inc.	33
125	Standard Tar Products Co., Inc.	40
123	Tecumseh	35
128	Tee 2 Green Corp.	CV2
129	Titan Turf Equipment . . .	14
126	Toro Co.	43
130	Turf Seed Co.	5
131	Vigoro Industries, Inc.	44
132	Walker Manufacturing Co.	22

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PROBLEM MANAGEMENT

Using alleopathic plants

Problem: Can you tell me something about the uses of alleopathic plants for controlling undesirable weeds? (New York)

Solution: Alleopathy is any direct or indirect harmful effect of one plant on another through production and release of chemicals into the environment. This is now recognized as another factor in crop production and weed management.

Generally, these secondary plant metabolites are non-specific in that they may inhibit a number of different plants.

Alleopathic compounds may enter the environment in different ways. Aromatic compounds can be volatilized while water-soluble toxins can be leached from root or shoot excretions. Chemicals released as a result of microbial decomposition of plant residue can also be toxic and can be considered to be alleopathic in some respect.

Often it is difficult to distinguish between competition and alleopathy. Competition for light, water and nutrients is very common among plants. Since it is difficult to distinguish between competition and alleopathy, many scientists prefer to use the term "interference" when the cause is not clear.

Researchers at Michigan State University found that grain sorghum suppresses weed growth in the field and in the lab. Sunflower plants were also known to inhibit certain weeds. Although not fully understood, dense turfgrass can "choke" weeds through their competitive ability and perhaps through their alleopathic toxic metabolites. This aspect needs further study.

Compost also contains toxic plant and microbial metabolites having alleopathic effect. This aspect also needs more research before we could use compost extract for weed management. Soil moisture, pH, and temperature may play an important role in the release and activity of these secondary compounds.

The concept of alleopathy for weed management is indeed interesting; however, we have a long way to go before understanding its practical use.

pH-adjusting products

Problem: Regarding your answer to the question on pH adjusting that appeared in February, some additional products widely used to buffer pH (not acidize the tank as most other iron products or phosphoric acid will do) are Agri-Plex and Lawn-Plex, of R.G.B. Laboratories.

We don't know of any other micronutrient products that are true buffers (adjust pH up or down) besides the above-mentioned products. Therefore, you need not buy pH-adjusting solutions and you practically get the iron/micronutrients for nothing.

Solution: I am not familiar with the practical use of these products for pH adjustment and their effectiveness. Therefore, I would appreciate the com-

ments of any readers who have used these products, even on a small scale.

Ridding greens of angleworms

Problem: How do I get rid of angleworms on greens? There has to be a product or method that will not kill bermudagrass and is legal. (Wisconsin)

Solution: Earthworms are often called angleworms because they are used as fishing bait. Generally, turf managers consider earthworms to be beneficial because their feeding activity enriches the soil, their burrowing activity can improve soil aeration, and the soil they ingest with their food becomes a good source of fertilizer when excreted.

The flip side is that earthworms often make mounds of soil in the turfgrass area and, during heavy rains or saturated soil conditions, a large number of earthworms may be found wandering and/or dead on sidewalks, driveways, etc.

Although these activities can be a nuisance or objectionable to some, no pesticides are currently registered to manage these. However, reports indicate that certain soil-applied insecticides on lawns may have some adverse effect on earthworm population. These products, when applied according to label specifications, will not harm bermudagrass but will not be legal to treat for earthworm management.

Also, please note that bermudagrass is not adapted to your area, so you might want to make sure what variety of turf you're dealing with. **LM**



Balakrishna Rao is Manager of Technical Resources for the Davey Tree Co., Kent, Ohio.

Questions should be mailed to Problem Management, LANDSCAPE MANAGEMENT, 7500 Old Oak Boulevard, Cleveland, OH 44130. Please allow 2-3 months for an answer to appear in the magazine.

To the floating deck Crew King,[™] this is a walk in the park.



- Available in 36" and 48" cutting widths.
- Fixed deck units also available.
- Heavy duty 10 gauge decks with 7 gauge skirts.
- Rigid bumper system on fixed deck units.
- Powerful, 14 HP Kohler overhead valve, 4 cycle engine on floating deck models.
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- Top-lube, easy-access blade spindles for simple maintenance.
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- Long life, smooth casters for less turf marking.
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- Floating decks have wide reinforcing bar on deck perimeter for strength and to prevent turf gouging.
- 48" deck model has a center anti-scalp roller and skids for added turf protection.

Smooth out your tough jobs with the new 36" and 48" Crew Kings.

For a better quality cut, a floating deck is suspended from the carrier frame, allowing the Crew King to follow ground contours closely and prevent scalping and blade damage.

For better productivity, the new Crew Kings are packed with time-saving features. Quick change cutting height adjustment requires little effort and no tools. Just pull a few pins, set the cutting height and continue.

Five forward speeds accommodate a wide variety



of mowing conditions. Reverse gear makes access to tight areas easier, including trailer unloading. And a zero turning radius at the wheel provides excellent maneuverability without scuffing turf.

Crew Kings also have proven-tough Jacobsen decks, built to take the hard knocks of everyday work.

The new Jacobsen Crew Kings help turn any day into a walk in the park.

See your Jacobsen Commercial Products dealer today for a demonstration.

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