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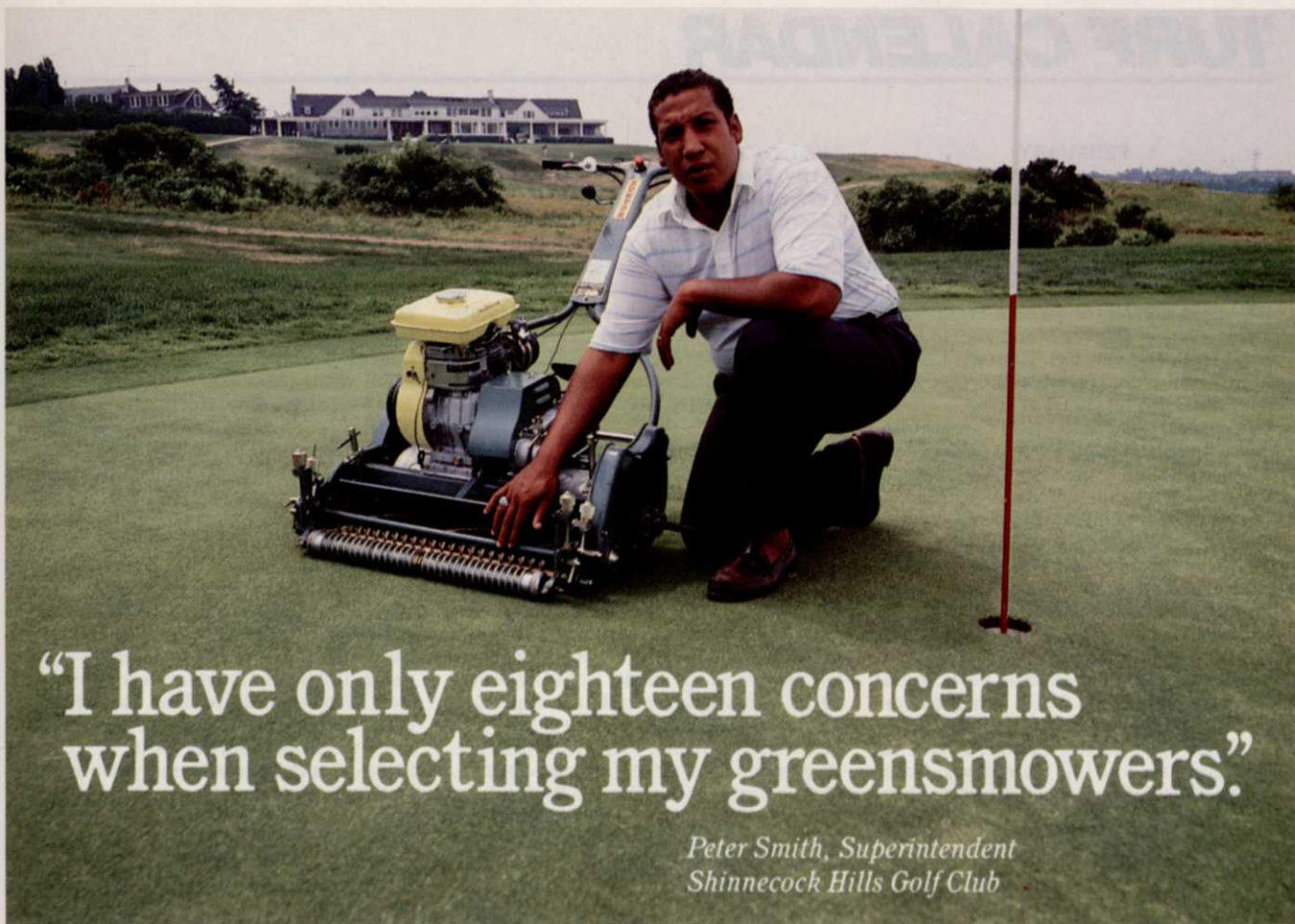
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**"I have only eighteen concerns
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*Peter Smith, Superintendent
Shinnecock Hills Golf Club*

"When you're hosting the U.S. Open, the quality of your greens is going to be evaluated by the best golfers in the world and a national television audience. That's why I use only Buntun mowers to maintain my greens here at Shinnecock Hills," says Golf Course Superintendent Peter Smith.

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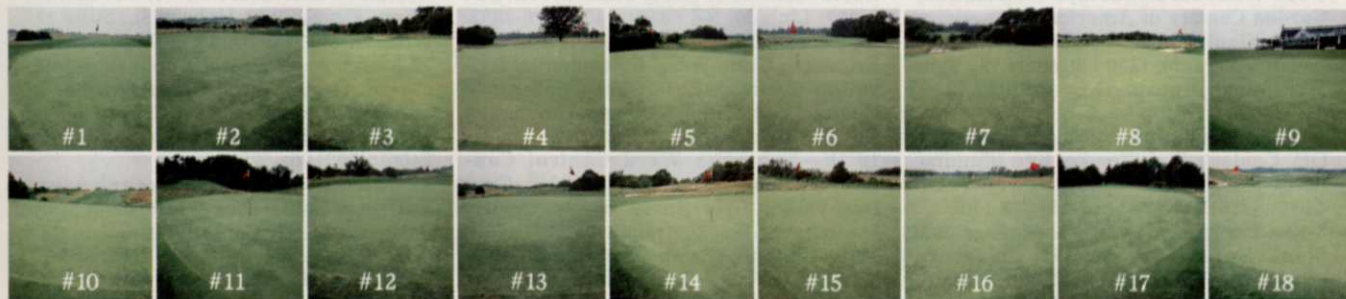
On teemowers:

"My tees concern me as much as my greens. With Buntun I get a striped, walk-behind look, plus the efficiency of a 26" mower. After all, those TV cameras focus on the tees almost as much as the greens. They have to be in top condition."

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TURF CALENDAR

FEBRUARY

1 (other dates as well)—Tree Care/Landscape Training. Northwood Resource Systems, Inc., Tiffin, OH. Contact: Richard V. Jones, Suite 100, 277-285 Martinel Dr., Kent, OH 44240; (216) 678-1912 or (800) 637-4473.

1-3—Colorado Nurserymen's Trade Show & Conference. Denver Merchandise Mart, Expo Hall, Denver, CO. Contact: Cary or Judith Hall, 746 Riverside Dr., Box 2676, Lyons, CO 80540; (303) 747-2662.

1-8—59th International Golf Course Conference & Show. Golf Course Superintendents Association of America. George R. Brown Convention Center, Houston, TX. Contact: GCSAA, 1617 St. Andrews Dr., Lawrence, KS 66046; (800) 472-7878.

2-3—New England Nurserymen's Association Convention and Trade Show. Copley Plaza, Boston, MA. Contact: Larry Carville, 24 West Rd., Suite 53, Vernon, CT 06066; (213) 872-2095.

2 (also 4 and 16)—California Pest Control Advisers Seminar. Butte Fairgrounds, Tulelake; Barbara Worth Country Club; Anaheim Convention Center, Anaheim, CA. Contact: Shirley Humphrey, Entomology Extension, University of California, Davis, CA 95616; (916) 752-0470.

3—Industrial Vegetation Management Association Meeting. Dallas, TX. Contact: R.M. Cope, 1015 N. 122 St., Omaha, NE 68154; (402) 498-0881.

5-7—Sports Turf Managers' Association Seminar. Houston, TX. Contact: Dr. Kent Kurtz, Sports Turf Managers Association, 400 N. Mountain Ave., Suite 301, Upland, CA 91786. (714) 981-9199.

6—California Landscape Contractors Association Seminar Becoming A Better Manager. Grand Hotel, Anaheim, CA. Contact: Larry Rohlfes, CLCA, 2226 K Street, Sacramento, CA 95816; (916) 448-CLCA.

6—Long Island Tree Conference. Farmingdale, NY. Contact: Long Island Arboriculture Association, P.O. Box AF, Holtsville, NY 11742.

6-9—Michigan Recreation & Park Association's Conference & Trade Show. Detroit Westin Hotel, Detroit, MI. Contact: John F. Greenslit, 2724 E. Michigan, Suite 201, Lansing, MI 48912; (517) 485-9888.

7—Musser International Turfgrass Foundation Meeting. Hyatt Regency, Houston, TX. Contact: Fred V. Grau, P.O. Box AA, College Park, MD 20740; (301) 864-0090.

7-9—The Fertilizer Institute's Meeting. Marriott, Washington, D.C. Contact: The Fertilizer Institute, 1015 Eighteenth St. N.W., Washington, D.C. 20036.

7-10—National Landscape Association/Garden Centers of America Management Clinic. Gault House, Louisville, KY. Contact: Jim Kerkam, 1250 I Street N.W., Suite 500, Washington, D.C. 20005; (202) 789-2900.

8-9—Nightscaping Seminar. Newbury, OH. Contact: Rick Tomko, Site Illuminations, 11008 Kinsman Rd., Newbury, OH 44065; (216) 564-8223 or (216) 338-1408.

8-12—Turfgrass Ecology & Management Short Course. Virginia Tech University, Blacksburg, VA. Contact: Dave Chalmers, Virginia Tech University, Blacksburg, VA

24061; (703) 961-5797.

9-10—Northeastern Pennsylvania Turfgrass & Grounds Maintenance School. Lazerne County Community College, Nanticoke, PA. Contact: Robert Kotch, Luzerne County Extension Service, 200 Adams Ave., Scranton, PA 18503; (717) 825-1701.

9-10—Southern Grounds & Turf Maintenance Exposition. Myrtle Beach Convention Center, Myrtle Beach, SC. Contact: Scott Regan, 111 Executive Center Dr., Columbia, SC 29210; (803) 737-9348 or (800) 554-1182.

10—American Sod Producers Association Motivational Leadership Seminar. Sheraton, New Orleans, LA. Contact: ASPA, 1855-A Hicks Road, Rolling Meadows, IL 60008.

10 (also 11, 17, 18)—Nursery and Landscape Short Course. Palo Alto and Dublin, CA. Contact: Richard Molinar, Cooperative Extension in Alameda County, University of California, 224 West Winton Ave., Room 174, Hayward, CA 94544; (415) 670-5200.

10-11—Massachusetts Landscape Conference. Sheraton Inn, Foxboro, MA. Contact: Virginia Wood, 1357 Washington St., W. Newton, MA 02165; (617) 964-0452.

10-11—Northern California Professional Turf & Landscape Exposition. Santa Clara Convention Center, Santa Clara, CA. Contact: Wanda Sarsfield, P.O. Box 268, Lafayette, CA 94549; (415) 283-6162.

10-12—American Sod Producers Association Mid-Winter Meeting. New Orleans, LA. Contact: American Producers Association, 1855-A Hicks Rd., Rolling Meadows, IL 60008; (312) 705-9898.

11—Mid-Florida Turfgrass Conference. University of Florida Cooperative Extension Service-Agricultural Auditorium, Sanford, FL. Contact: Uday Yadav, 250 W. County Home Rd., Sanford, FL 32773; (305) 323-2500 ext. 182.

11-13—Athletic Turf/Campus Management Seminar. Anaheim, CA. Contact: National Institute on Park and Grounds Management, Box 1936, Appleton, WI 54913-1936; (414) 733-2301.

11—Connecticut Turf and Landscape Conference. Hartford Civic Center, Hartford, CT. Contact: Elizabeth Maisano, Connecticut Grounds Keepers Association, P.O. Box 876, Bethel, CT 06801; (203) 791-8615.

14-18—National Arborist Association Meeting. Marriott, Maui, HI. Contact: Susan Curtis, 174 Route 101, Bedford, NH 03012; (603) 472-2255.

15-16—Nebraska Association of Nurserymen Winter Conference & Trade Show. Hilton Hotel, Lincoln, NE. Contact: David McBride or Kathy Siefken, P.O. Box 80177, Lincoln, NE 68501; (402) 476-3852.

15, 22, 29—Designing, Installing and Cost Estimating Commercial & Residential Irrigation Systems. Extension Conference Center, Cook College, Rutgers University. Contact: Jim Morris (201) 932-9271.

16-18—Nebraska Weed Control Conference. Ramada Inn, Kearney, NE. Contact: Vernon Dyer, Room 105 Courthouse, Lexington, NE 68850; (308) 324-3771.

16-18—Inland Ornamentals Seminar & Turf & Landscape Trade Show. Seminar-Sheraton, Spokane, WA. Show-Fair-

grounds. Contact: Tonie Fitzgerald, N. 222 Havana, Spokane, WA 99202; (509) 456-3651.

17—Inland Northwest Turf & Landscape Trade Show. Spokane, WA. Contact: Jones & Associates, North 8712 Calispel, Spokane, WA 99218-2008; (509) 466-1486.

19-20—West Virginia Nurserymen's Association Winter Educational Meeting. Sutton Lanes Motel, Sutton, WV. Contact: James E. Monroe, Rt. 1, Box 33, Talcott, WV 24981; (304) 466-2660.

20-21—Tampa Bay Horticultural Trade Show. Florida State Fairgrounds, Tampa, FL. Contact: Bette S. Walker, 6804-C Gunn Highway, Odessa, FL 33625; (813) 920-4393.

22-23—Ohio State University Professional Lawn Care Seminar. Riverside Inn, Columbus, OH. Contact: Sue White, Dept. of Agronomy, Ohio State University, Room 202, 2021 Coffey Rd., Columbus, OH 43210-1086; (614) 292-2001.

22-23—Shade Tree Symposium. Pennsylvania/Delaware Chapter International Society of Arboriculture, Host Farm Resort, Lancaster, PA. Contact: Sara Attig, 29 Garrett Ave., Rosemont, PA 19010.

22-24—South Dakota Nurserymen's Association Conference & Trade Show. Howard Johnson Lodge & Convention Center. Contact: Bruce Ellington, 3309 E. 10th St., Sioux Falls, SD 57103; (605) 334-4767.

23—South Carolina Grounds Maintenance Short Course. Holiday Inn, Greenville, SC. Contact: George V. Hyams, P.O. Box 12109, Charleston, SC 29412; (803) 762-1595.

23-25—Western Pennsylvania Turf Conference & Trade Show. Pittsburgh Expo Mart/Marriott Hotel, Monroeville, PA. Contact: P.T.C., P.O. Box 417, Bellefonte, PA 16823-0417; (814) 355-8010.

24—Bergen Landscape '88. Giants' Stadium, East Rutherford, NJ. Contact: Skip Powers, 630 Valley Court, Westwood, NJ 07675; (201) 664-5228 or (201) 327-0820.

25-26—Landscape Industry Conference & Trade Show. Denver, CO. Contact: Chery Flores, 3895 Upham St., Suite 150, Wheat Ridge, CO 80033; (303) 425-4862.

25-26—International Erosion Control Association Conference & Exposition. New Orleans, LA. Contact: Michael McMillan, P.O. Box 195, Pinole, CA 94564-0195; (415) 223-2134.

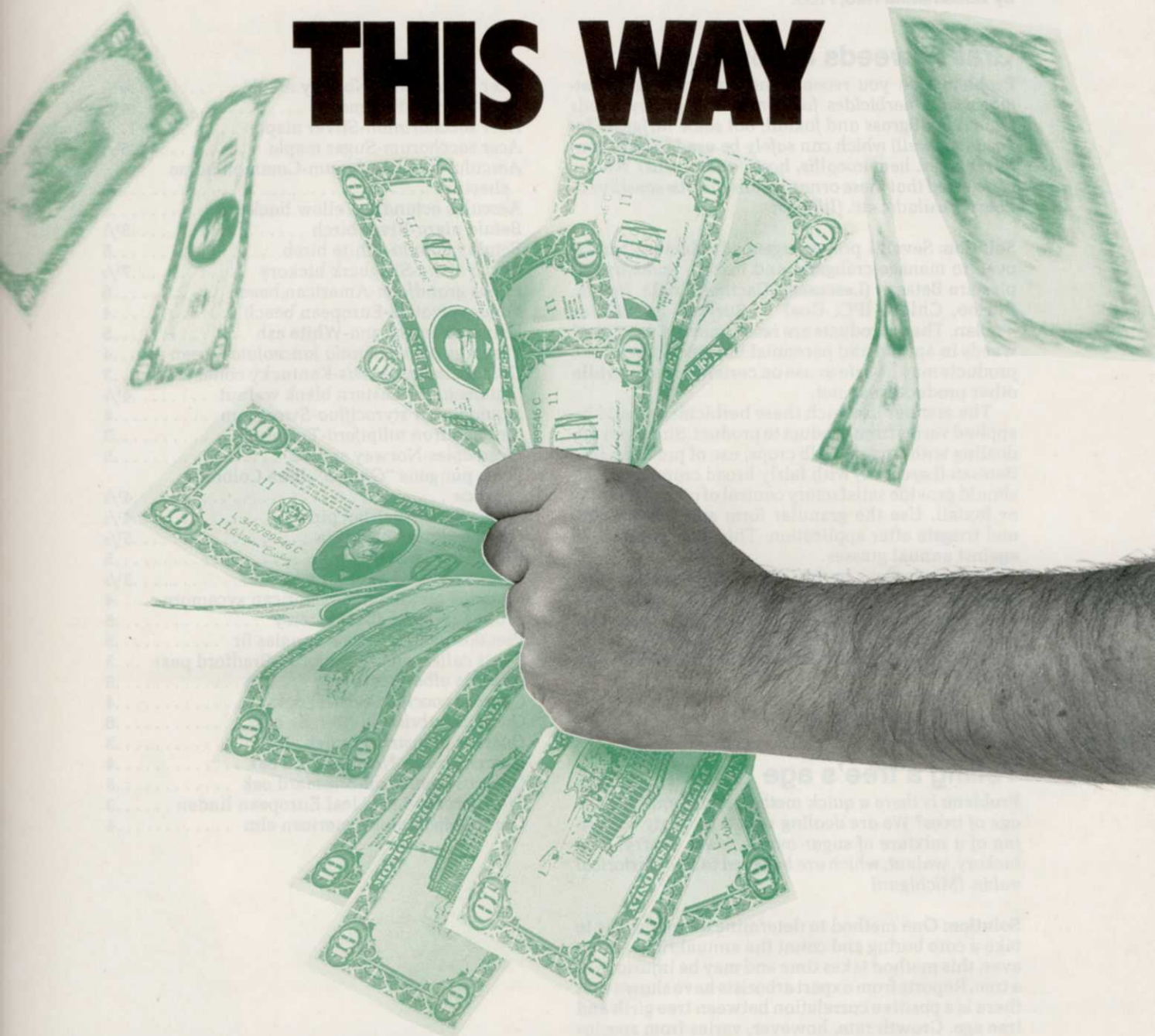
25-28—ISPO-Spring. Munich Trade Fair Centre, Munich, West Germany. Contact: Gerald G. Kallman, Kallman Associates, Five Maple Court, Ridgewood, NJ 07450-4431; (201) 652-7070.

26—Excellence in Landscape Awards Banquet. Associated Landscape Contractors of Colorado, Denver, CO. Contact: Chery Flores, 3895 Upham St., Suite 150, Wheat Ridge, CO 80033; (303) 425-4862.

29-March 2—Chemical Application Mini-course. Virginia Tech University, Blacksburg, VA. Contact: Dave Chalmers, Virginia Tech University, Blacksburg, VA 24061; (703) 961-5797.

29-March 3—57th Massachusetts Turfgrass Conference & Industrial Show. Springfield Civic Center, Springfield, MA. Contact: Dr. Joseph Troll, RFD #2, 34 Comins Rd., Hadley, MA 01035; (413) 549-5295.

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PROBLEM MANAGEMENT

by Balakrishna Rao, Ph.D.

Grassy weeds in flower beds

Problem: Can you recommend both pre- and post-emergence herbicides for controlling grassy weeds (chiefly crabgrass and foxtail, but some turfgrass invasion as well) which can safely be used in beds containing iris, hemerocallis, hosta and crocus? We are concerned that these ornamentals may be sensitive to Poast, Fusilade, etc. (Illinois)

Solution: Several pre-emergence herbicides can be used to manage crabgrass and foxtail. Some examples are Betasan (Lescosan), Dacthal, Enide, Eptam, Furloe, Chloro IPC, Goal + Surflan, Surflan or Treflan. These products are recommended to control weeds in annual and perennial flowers. Some of the products may be safe to use on certain flowers, while other products may not.

The manner in which these herbicides should be applied varies from product to product. Since you are dealing with several bulb crops, use of products like Betasan (Lescosan) with fairly broad crop tolerance, should provide satisfactory control of crabgrass and/or foxtail. Use the granular form and incorporate, and irrigate after application. This is most effective against annual grasses.

Post-emergence herbicides are not generally recommended for use in annual and perennial flowers. Most post-emergence herbicides like Roundup, Amitrol, Dowpon and Poast are non-selective materials. Read and follow label specifications for best results.

Telling a tree's age

Problem: Is there a quick method of determining the age of trees? We are dealing with a property consisting of a mixture of sugar maple, black cherry, elm, hickory, walnut, which are believed to be of historical value. (Michigan)

Solution: One method to determine a tree's age is to take a core boring and count the annual rings. However, this method takes time and may be injurious to a tree. Reports from expert arborists have shown that there is a positive correlation between tree girth and tree age. Growth rate, however, varies from species to species. Tree health, soil, climatic and site conditions can have a significant effect on the rate of annual growth.

The tree's age can be fairly estimated using a simple formula published by the International Society of Arboriculture. First, determine tree diameter in inches measured at 4½ feet above ground level. The diameter can be determined by dividing the circumference by 3.14. Refer to the following table to find different factors for various species. Multiply the diameter in inches by the designated factor to determine the estimated age of trees.

Tree species, variety or cultivar	Factor
<i>Abies concolor</i> -White fir	7½
<i>Acer campestre</i> -Hedge maple	4
<i>Acer nigrum</i> -Black maple	5

<i>Acer platanoides</i> -Norway maple	4½
<i>Acer rubrum</i> -Red maple	4½
<i>Acer saccharinum</i> -Silver maple	3
<i>Acer saccharum</i> -Sugar maple	5½
<i>Aesculus hippocastanum</i> -Common horse chestnut	8
<i>Aesculus octandra</i> -Yellow buckeye	5
<i>Betula nigra</i> -River birch	3½
<i>Betula pendula</i> -White birch	5
<i>Carya ovata</i> -Shagbark hickory	7½
<i>Fagus grandifolia</i> -American beech	6
<i>Fagus sylvatica</i> -European beech	4
<i>Fraxinus americana</i> -White ash	5
<i>Fraxinus pennsylvanica lanceolata</i> -Green ash	4
<i>Gymnocladus dioicus</i> -Kentucky coffeetree	3
<i>Juglans nigra</i> -Eastern black walnut	4½
<i>Liquidambar styraciflua</i> -Sweetgum	4
<i>Liriodendron tulipifera</i> -Tuliptree	3
<i>Picea abies</i> -Norway spruce	5
<i>Picea pungens</i> "Glauca"-Blue Colorado spruce	4½
<i>Pinus nigra</i> -Austrian pine	4½
<i>Pinus resinosa</i> -Red pine	5½
<i>Pinus strobus</i> -White pine	5
<i>Pinus sylvestris</i> -Scot pine	3½
<i>Platanus occidentalis</i> -American sycamore	4
<i>Prunus serotina</i> -Black cherry	5
<i>Pseudotsuga menziesii</i> -Douglas fir	5
<i>Pyrus calleryana</i> "Bradford"-Bradford pear	3
<i>Quercus alba</i> -White oak	5
<i>Quercus coccinea</i> -Scarlet oak	4
<i>Quercus imbricaria</i> -Shingle oak	6
<i>Quercus palustris</i> -Pin oak	3
<i>Quercus rubra</i> -Northern red oak	4
<i>Quercus shumardii</i> -Shumard oak	3
<i>Tilia cordata</i> -Little leaf European linden	3
<i>Ulmus americana</i> -American elm	4



Balakrishna Rao is Director of Lawn Care 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.

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113	127	141	155	169	183	197	211	225	239	253	267	281	295	309	323	337
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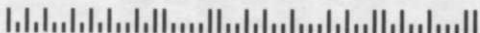
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