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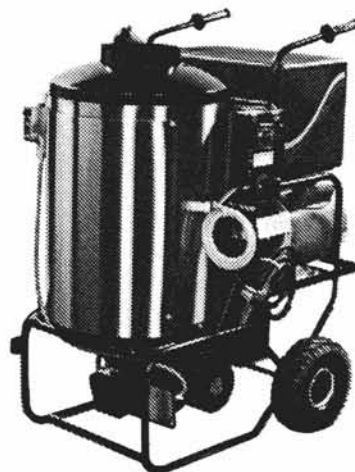
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RETURN ORDER AND CHECK TO: **Turfgrass Technology Center**, P.O. Box 688, Carmel, IN. 46032

_____ copies of *Turfgrass Management Field Guide* @\$16.95 includes P/H
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WHEN: December 15 - 16, 1992

Marion County Extension Office

1-465 North to Meridian Street exit, go south - located on east side of street approx. 1 mile on the first floor of the Fifth Third Bank Building

WHERE: Marion County Extension Office
9245 North Meridian Street
Indianapolis, Indiana

CCH CREDIT: 9 units approved in categories 3a, 3b and 10

DECEMBER 15, 1992

8:30-9:00 Registration, Introduction
9:00-10:00 Plant Growth and Fertilization - **Jeff Lefton**, Turfgrass Specialists
10:00-12:00 Turfgrass Weed Control Strategies - **Jeff Lefton**
12:00-1:00 Lunch (on your own)
1:00-2:00 State Chemist Update - **Carl Rew**, Assistant Administrator ISC Office
2:00-3:00 Ornamental Bed Weed Control - **Jim Barbour**, Extension Horticulturist
3:00-5:00 Ornamental Disease Control - **Bob Partyka**, PhD, Plant Pathologist
5:00-6:00 Pesticide Safety and Exposure Studies - **Jeff Lefton**

DECEMBER 16, 1992

8:00-10:00 Ornamental Insect Control - **Tim Gibb**, Extension Entomologist, and **Bob Partyka**, Plant Pathologist
10:00-12:00 Turfgrass Insect Control - **Tim Gibb**
12:00-1:00 Lunch (on your own)
1:00-2:30 Turfgrass Disease Control - **Jeff Lefton** and **Bob Partyka**
2:30-3:30 Pythium Control Strategies - **Jim Merrick**, Research Scientist
3:30-5:30 Application Technique and Calibration Methods - **Jeff Lefton**

FEE: BEFORE NOVEMBER 26, 1992 - \$145 per person
AFTER NOVEMBER 27, 1992 - \$165 per person
(Group discount - \$10 per person from the prices stated above)

No refunds will be accepted after November 26, 1992; however, substitutions of people will be accepted.

RETURN REGISTRATION AND CHECK TO: Turfgrass Technology Center
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(Marcescent Mania cont'd.)

According to Department of Conservation foresters, trees that hold their leaves through the fall and winter may be the result of an evolutionary failure. Such species may have originated in southern climes eons ago. Oak, for example, is known to have come originally from Mexico, which still has the most varieties of any location in the world.

Marcescent leaves serve a purpose. They may provide food for some wildlife species and they definitely act as a windbreak to reduce the exposure of tree dwelling creatures to the hazards of winter's frigid blasts. In addition, they have recreational value: An afternoon hike or automobile outing in search of marcescent trees, and attempting to correctly identify them, can be fun.

However, one stumbling block this year is the fact that an unusually large number of non-marcescent trees also got caught with their abscission layer down. Sweetgum, sycamore, silver maple, viburnum and forsythia (shrubs) and Siberian elms were among the species whose leaves froze irretrievably to their twigs.

"What happened was that we had a lot of wet and relatively warm days and nights and the trees didn't recognize that the growing season was over," Forester Dan Schmoker said. "Then, suddenly, we got a few days of hard freeze and the leaves died in place."

Outdoor Highlights, Vol. 19, #18, 12/91



Autumn catches some trees off guard and they continue producing sugars until freezing weather halts the process. When that occurs, leaves often-times will wither and/or freeze in place, remaining firmly attached to the tree throughout the winter months.

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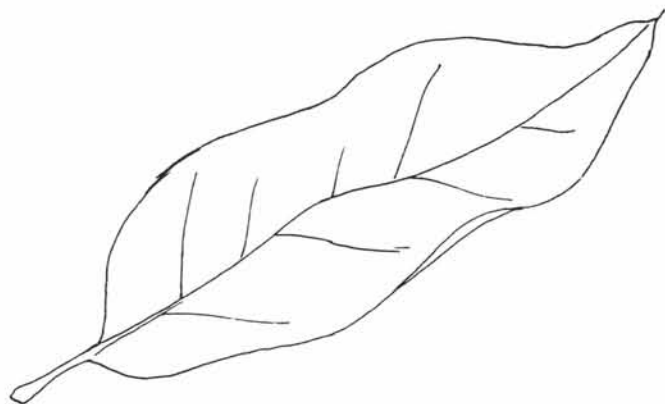
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Leaves, Limbs, Needles & Boughs

by Fred Opperman

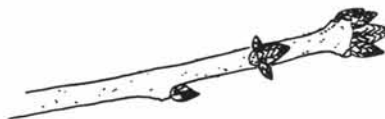
Last month we discussed the English Oak and this month I'll stay on the oaks and bring out the fine points of a seldom used oak, but one that does quite well in our area. Unfortunately very few nurseries grow "Quercus imbricaria" (kwer'kus im-bri-ka'ri-a), commonly known as the Shingle Oak or Laurel Oak.

Leaves: Alternate, simple, 2½ to 6" long, 1 to 3" wide, oblong or lanceolate, acute at apex with bristle-like tip. Dark green and glabrous above, pale green or brownish pubescent beneath.



Buds: Imbricate, ovoid, sharp pointed, 1/8" long, brownish, often slightly hairy.

Stem: Slender, green-brown, lustrous, glabrous, angled.



Size: 50 to 60' in height, developing a comparable or slightly greater spread, can grow to 80 to 100' in height.

Habit: Pyramidal to upright-oval in youth, assuming a broad-rounded outline in old age, often with drooping lower lateral branches.

Bark: Gray-brown, close, eventually with broad low ridges separated by shallow furrows.

Culture: Transplants with less difficulty than many oaks; prefers moist rich, deep, well-drained, acid soil although is tolerant of drier soils; needs full sun. Does quite well in the midwest and used for lawn, street, park and golf courses. Accepts pruning very well and can be used for hedges; the leaves persist into winter.

Tree Trivia: The American Beech tree has an oil throughout its system that is resistant to electricity. This makes the beech less likely to sustain lightning damage than any other tree.

Next month be sure to read a comprehensive report, "Trees of Chicago Area Golf Courses" by Thomas L. Green and Kris R. Bachtell.

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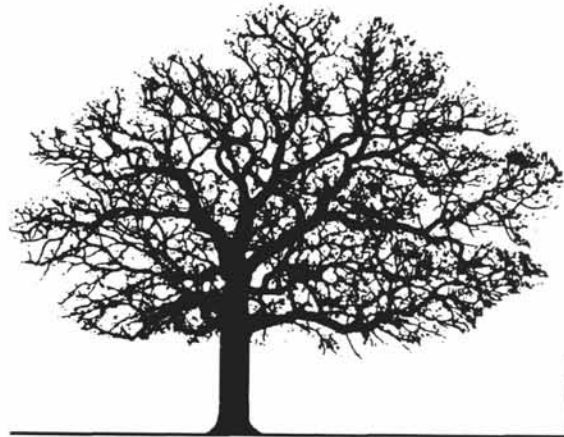


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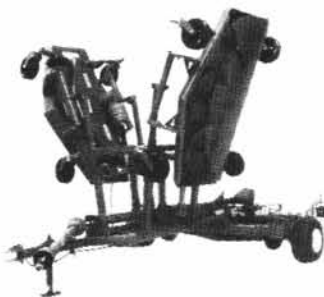
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