# Weather Continues to Create Tree and Shrub Problems

This season has brought its share of gardening problems. According to Cindy Garber, Summer Horticulturist with the University of Illinois Extension Service in Rolling Meadows, the troubles are not over yet. Recent inspection of problems occurring at the Chicago Botanic Gardens, revealed some persistant problems. Included are leaf scorch, iron chlorosis of pin oaks, cedar apple rust and several troubles stemming from winter injury that took place last January.

Leaf scorch is increasingly evident on sugar maples and other large leafed species. The scorch first appeared in May the weekend after Mother's Day, when temperatures reached a high of near 90 degrees and wind gusts close to 50 miles an hour. Then the tender leaves were burned almost instantly, mainly because they had just leafed out and were very sensitive to the drying. Recent temperatures in the 90's and a continuing drought through much of this area has scorched mature leaves as trees try to prevent excessive water loss. The only way to help lessen the effect of the weather is to properly water the trees. Soak them by letting a hose run slowly beneath the tree for several hours. This should be done every 2-3 weeks as long as drought persists. Also avoid applying any spray materials because some of them will also burn the foliage.

An ever-present problem is the iron chlorosis of pin oaks (and red maples, magnolias and some birch as well). These varieties are intolerant of our soils. Soils here are too alkaline and bind up the iron the trees need for green color. Addition of soluble iron to the soil may green up the trees. Sulfur or aluminum sulfate will help to change the pH of the soil but often is only temporary. The only permanent solution is to plant tree varieties that are suited for this area.

After a late start cedar apple rust is also prevalent on apple, crabapple and hawthorns. The disease should not have been as severe as in previous years because we had a drier spring. But this is not so. The orange spots have appeared in great numbers. This disease moves from apples to junipers causing galls which "bloom" in April with masses of jelly. Spraying the apples and hawthorns then will prevent reinfection next year. Nothing can be done about it now.

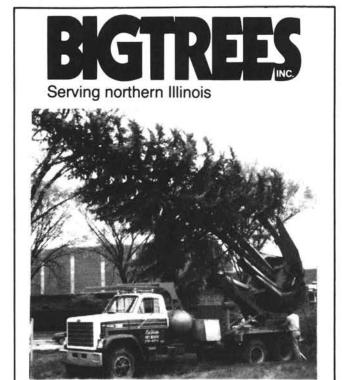
Winter injury problems continue. The long term effects are often more severe than the immediate damage. Most people seem to think we have seen the last of the damage of last January's record cold. In fact much of it is just now showing up.

Some plants that leafed out normally last spring have suddenly died. Other plants have been unthrifty all season. Still other plants leafed out very late, seemingly dead and now nearly normal.

Severe cold kills some plant tissues but often causes bark to be sensitive to canker fungi which grow into the effect stem and eventually girdle it. This delayed effect is what is showing up now and may continue through this season or even next year.

It is a continuing battle to keep our trees healthy and vigorous in this urban area, says Miss Garber. We are always going to have winters that damage our trees and hot dry summers that scorch leaves.

But don't get discouraged. When replanting, use trees suited to this area. Fertilize and water to keep plants in the best condition. When damage does occur, repair it as soon as possible so the tree can heal.



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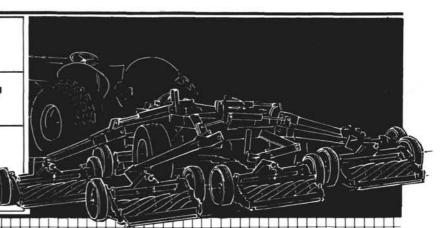
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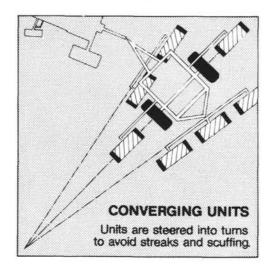
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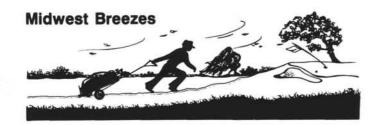
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#### Upcoming Events — Mark Your Calendar

September 9 — MAGCS monthly meeting at Aurora C.C.
 September 19-24 — GCSAA Mid Year Turfgrass Conference & Show, Indianapolis

September 29 — MAGCS Family Picnic at Potowonomi Park, St. Charles, IL

October 7 — MAGCS monthly meeting at Flossmoor C.C.
November 10-12 — Penn State Turf Conference, State College, PA

November 12 — Midwest Clinic at Medinah C.C.

#### Family Outing — September 29, 1985

This year's arrangements committee has made plans for a family outing to take the place of the fall dinner dance which has been poorly attended the last few years.

The outing will be held at Potowonomi Park in St. Charles, Illinois. The festivities will begin with lunch served aboard the "Saint Charles Belle II", a paddle boat that will take us on a scenic cruise on the Fox River. Afterwards there are lots of activities available for eveyrone including a playground, train rides, ball diamonds, tennis courts and much more.

Mark this date down (September 29) and plan to attend a fun day with your wife, girlfriend, kids, grandkids, whoever! Hope to see you there.

Don & Susie Hoffman are proud parents of Ashley Francis who weighed in at 7 pounds and 4 ounces on May 17th, 1985.

Dan & Jill Murray added another Murray to the household on July 29th, with the addition of Kyle who weighed 7½ pounds at his birth.

Roger Stewart took some time off during the hectic summer and spent some time judging at the DuPage County Fair. He really had a tough job by all of the reports coming in. Much research was put into this project, long hours into the night and etc. But Roger persevered and was finally able to help choose the Queen of the Fair!

Oscar Miles made Chicago proud with his superb job of "greenkeeping" in preparing Butler National for the Western Open. The course looked so much better on T.V. than what we have been seeing in the past. Well done, Oscar!!!

For Sale — Jacobsen G-10, Cushman & Cab, and a Red Rider Truckster. Call Mike Bavier or Mel at (312) 358-7030.

# Second College Alumni Golf Test to be at Flossmoor

At the Midwest meeting October 7th at Flossmoor Country Club, alumni of the nation's turf management schools will compete for the Dudley Smith trophy. This award is a team trophy to be awarded at our Fall golf outing annually.

The defending champions are the "Boilermakers" of Purdue University. Joe Williamson, Phil Taylor, John Turner, Steve Biggers, Dick Trevarthan and Rick Kepshire expect to repeat the low gross scores that won the honors at Cress Creek last year.

Strong squads are expected this year from University of Illinois at Champaign, Michigan State, the University of Massachusetts at Amherst, and Penn State. The Buckeyes of Ohio State, Badgers of Wisconsin, and Saluki's from Southern Illinois also expect to be heard from.

Any number of graduates may play for their school; only the four low gross scores will be totaled for each team.

Wear your school colors, and shoot your best golf for the old alma mater.

#### **Notice of Position Opening**

**Position Title** — Green Superintendent, Glenview Park District, 1930 Prairie Street, Glenview, IL 60025 (724-5670).

**Description of Duties** — The position is a management position and involves the maintenance, repairs and improvements of the Glenview Park Golf Club grounds. This management includes the supervision of personnel and allocation of resources for grounds, building and equipment.

The course is a 110 acre, 18 hole course which has, over the last two years, undergone renovation and reconstruction including the addition of two new lakes. The average number of rounds per season is 55,000 and the standards of the course condition are extremely high.

The direct staff for which the superintendent is responsible is two full-time and 7 full-time, seasonal (temporary 30-36 weeks).

The green superintendent works with the golf operations manager and will be directly responsible to The Director of Facility Management.

Qualifications — Minimum requirement is an associate degree in turf management or a high school degree with one full year's experience as a Greens Superintendent or three years experience as an assistant to a golf course superintendent. Preference will be given to a bachelor's degree from a recognized university with a major in turf management, agronomy or related disciplines.

Compensation — Starting compensation range is \$21,000-\$26,000 annually with an initial 6 month review. Full-time benefits include life and health insurance, retirement and vacation.

Applications — Resumes/applications should be sent to: Judith L. Zopp, Director of Facility Management, 1930 Prairie Street, Glenview, IL 60025. Deadline for applications: September 6, 1985.

Ed Fischer recommends not using one's nose to catch a softball, it has a tendency to turn the area around the eyes a pretty color of black & blue.



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# The Care and Management of Native Oaks in Northern Illinois

by George Ware and Virgil K. Howe\*
The Morton Arboretum Plant Information Bulletin
Lisle, IL (Winter, 1974 - No. 4)

The oak forests of northern Illinois have taken centuries to develop, and deserve to be regarded as an irreplaceable land-scape legacy distinctly characteristic of our region. They not only provide favorable conditions for our common oaks and other trees, but they also support a multitude of living things: mammals, birds, insects, fungi, herbaceous plants, and other forms of life.

If we are to keep the oak trees which we value, we must begin by understanding that the oaks are integral parts of a system made up of living and non-living things which have developed together over a long period of time. Certain conditions provided by the forest community as a whole have become vital to the life of these oak trees, and we must either preserve these conditions or provide a successfully functioning simulation of these conditions. Indeed, some evidence suggests that, in the long run, we may not be able to have the trees without the forest.

In northern Illinois it is especially important to understand the interrelationships between the forest trees and the forest soils. Here the oaks, over hundreds of years, have had a part in producing the soils on which they are found. Oak trees thrive in acid soils, and their fallen leaves help create and maintain acidic surface layers that differ significantly from the alkaline glacial material from which our regional soils are derived. In northern Illinois there often is also an impermeable layer with high clay content about two feet below the surface, which limits the depth to which tree roots readily penetrate. Under these conditions, oak trees have developed shallow root systems with an immensely proliferative mat of fine roots in the upper few inches of the soil. Because they are so near the surface, these fine roots important to the proper functioning and health of oak trees are exceedingly vulnerable to modifications of the surface layers of the soil.

The common oaks of northern Illinois are white oak (Quercus alba), red oak (Quercus rubra), and bur oak (Quercus macrocarpa). All three are found in oak forests, with bur oak also being found in open groves and in open parts of forests. All three oaks are harmed by soil surface modification, but bur oak seems to be the least sensitive.

There are many causes of soil surface modification, but one of the most severe is the construction of houses and other buildings in wooded areas. Oak trees that remain after construction of buildings in a forest are subjected to a multitude of conditions markedly different from those under which the trees developed. Most of the changes are detrimental to the oaks and may result in stress, decline, and often death of the trees.

Presumably one of the primary reasons for building in a forest is the desirability of the existing trees, yet little attention is given to the requirements of the trees and to the maintenance of the forest. Perhaps there is a tendency to think of tree roots as coarse underground branches or "pipes" descending deeply into the ground; thus the possibility that the life of the tree might be threatened by events at or near the surface just never enters one's thinking until it is too late.

The following list of "do's" and "don'ts" is provided with the hope that it will offer a better understanding of why oaks are sufffering, what they require for health, and ways in which planning and care can help prevent needless loss.

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# Some Things that can Damage Oak Trees ("Don'ts") Physical Changes Detrimental to Oaks

General Changes:

Soil compaction usually results from the use of heavy equipment. Compacted soils, especially where clay is present, cannot provide suitable conditions for water insoak, aeration, nutrient uptake, and root growth by trees.

Cutting, filling, or changing the soil surface affects the surface root systems of trees adversely or may even destroy them.

**Impeding drainage**, even temporarily, can damage the surface root system. Favorable aeration of the surface soil is an important factor in the maintenance of a proliferative fine root system; water-saturated soils greatly reduce oxygen availability.

Thick sod around oaks affects the trees adversely because of the keen competition between the grass and the oaks' fine roots for moisture and nutrients.

#### Adding Things:

Raising the soil level usually has a serious effect on the soil/air interface. The fine-root system is sensitively attuned to the long-existing surface soil, and when buried, may undergo rapid deterioration.

Storage of soil near trees during construction, such as temporarily piling topsoil for later distribution, may affect the fine surface roots of trees in the same way as soil fill. This is especially true during the spring when great numbers of new fine roots are normally added.

Use of gravel, cobblestones, and limestone blocks for landscape effects around trees may change surface conditions abruptly and detrimentally.

#### Removing Things:

Removing soil from around a tree to lower the grade cannot be done without also removing the surface layer of fine roots. If the area of removal is extensive, the tree actually may be deprived of so much of its surface root system that it may not be able to survive.

Removing leaves year after year has an impoverishing effect on the soil, in that mineral nutrients are discarded with the leaves. Nutrients contained in the leaves have been selectively "pumped" from the soil. Commercial fertilizers do not replace all of the kinds of nutrients that are lost in the discarded leaves.

Removing neighboring trees may permit soil temperature fluctation and drying far greater than under previous woodland conditions.

#### Constructing Things:

**Paved surfaces** such as patios, walks, and driveways that are located too close to trees will destroy surface roots and detrimentally affect deeper roots on the sides of the tree adjacent to the paving.

Circular "wells" built around trees to keep soil fill away from the base of the trunk are seldom effective in preserving oaks. The soil fill around the outside of the well covers the most extensive part of the fine surface root system.

Septic tank field lines may produce a great lateral water movement because of the impermeable subsurface layer of clay so prevalent in our region. Consequently, soil some distance from the line itself may become saturated, and the wetness may adversely affect oak root systems.

Installation of underground utility lines may destroy large segments of the fine root system if the trenches for the lines are under the canopies of oaks. Trenches should be located midway between widely spaced trees. Footings for garden walls, pools, etc. may have the same effect as trenches for utility lines. Curbing for streets and driveways also presents problems.

Chemical Changes Affecting the Condition of Oaks

Certain herbicides seem to be taken up by the fine root system, causing curling and disfiguration of the foliage.

Fertilizing of lawns or trees on warm days in summer may dehydrate oak roots and foliage, sometimes causing wilting, browning, or loss of foliage and even loss of trees. Water loss (transpiration) from the foliage is especially great on hot summer days, and fertilizers going readily into solution may seriously interfere with water uptake mechanisms.

Watering with hard water and use of lime-based fertilizers both may raise the pH of soils, i.e., lessen their acidity. Oaks thrive best in acid soils.

Limestone gravel mulches also may raise the pH of soils around oak trees.

Some Things that may Help Save Oak Trees ("Do's")
Handling Natural Woodland During and After Construction

Leave the forest intact wherever possible.

Place buildings adjacent to the forest rather than within the forest.

Prevent disturbance of the natural woodland soil surface within the areas circumscribed by the outer branches of oak trees, since their vital but fragile root systems extend at least this far. It is imperative that these areas be considered especially sacrosanct during construction if the oaks' chances of survival following construction are to be enhanced.

Retain natural conditions of the forest floor wherever possible. Organic matter is an integral part of the natural forest floor and should not be removed, since an acid surface layer of soil owes its development largely to decomposition of fallen leaves.

Simulate natural conditions with ground cover under oaks, if preservation of the natural woodland floor is not practical. Ground covers collect fallen leaves which become incorporated into the soil as organic matter. Mulches of organic materials, such as wood chips or leaves, are good media in which to plant ground cover. Hardy and shade-tolerant plants appropriate for this type of ground cover include purple wintercreeper (Euonymus fortunei coloratus), English ivy (Hedera helix), periwinkle (Vinca minor), and Japanese pachysandra (Pachysandra terminalis).

**Retain "mini-forests"** by creating development plans in which groups of trees are preserved as tiny forests, if the whole forest cannot be preserved.

Progressive selective thinning, done over a period of years, may improve the situation for the remaining oaks in thick forest stands where all the trees are in a highly competitive situation. However, this must be done gradually inasmuch as abrupt removal of too many trees radically changes the environment of the remaining trees. On construction sites, oaks with long trunks and small crowns are especially hard to save.

Remember that saplings are the future forest and that complete clearing of all plants except mature trees means that when the trees eventually die, all semblance of the former forest will be gone. Smaller trees, saplings, and seedlings are important, too. The clearing away of everything but the large trees constitutes a terminal use for this generation — and perhaps the next — of what in nature is an endlessly renewing resource.

(cont'd. page 18)

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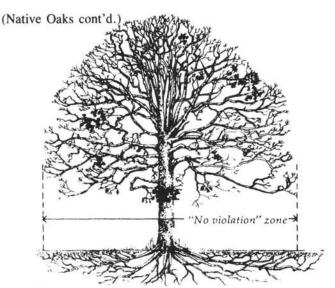
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Revitalizing Declining Oak Trees

Thinning of the crown may be the most direct way of helping an oak in decline, for the decline seems to be related to an imbalance in the crown/root ratio. Stresses in the soil environment bring about a reduction in the number of healthy functional roots, and a deliberate reduction in number of branches by thinning lesses the demand placed on the remaining roots for water uptake, which seems to be critical on hot, dry summer days.

**Mulching** with wood, leaves, or other organic material around oak trees, provides a simulation of forest floor environment. Mulching encourages the growth of fine roots and the beneficial fungal partners of fine roots that are found abundantly in healthy, intact forest soils.

Fertilizing may appear to invigorate oak trees, producing more luxuriant foliage. However, for overall benefit, there must also be stimulation of fine root growth providing greater absorptive surface for taking up nutrients, water, and oxygen. In difficult soil situations, significant root proliferation may occur slowly following fertilizing. Mulching and other means of soil improvement may also be necessary.

#### Special Problems of Oaks

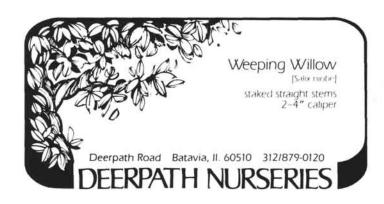
**Die-back of branches** of oak trees is a visible sign of stress, usually traceable to root/soil problems. Such trees may be subject to infestation and further damage by insects, or to rot and decay.

**Defoliation**— the loss of all leaves on oaks because of chewing insects, fungi, bacteria, drought, etc. — is a serious matter, since re-leafing depletes the tree's food reserves. Repeated defoliation may bring about decline and death of oaks.

Chlorosis or leaf-yellowing is often attributable to nutrient deficiencies. Especially common in northern Illinois is chlorosis of pin oak (Quercus palustris), a species commonly planted as a street and lawn tree. The alkalinity of most lawn soils in this region hinders the uptake of iron in pin oaks, producing chlorosis. Chlorosis of the foliage of large white, red, and bur oaks is seen increasingly in older neighborhoods in the Chicago region, but this chlorosis may involve a multiplicity of factors.

Leaf diseases may be serious, but there are many disfiguring leaf diseases with which oaks co-exist without serious detrimental effect.

\*Dr. Ware is Ecologist and Dendrologist at the Morton Arboretum; Dr. Howe is a Research Associate at the Morton Arboretum and Associate Professor of Biological Sciences at Western Illinois University, Macomb.



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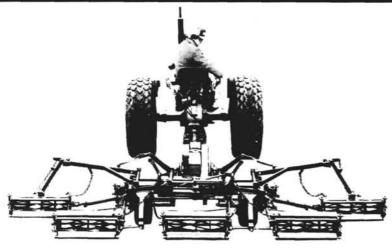
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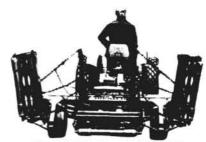
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Summersweet Clethra

Flameleaf (Shining) Sumac

Crabapple



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### Illinois Turfgrass Foundation

The Board of Directors of the Illinois Turfgrass Foundation is proud to announce the Illinois Turfgrass Foundation's association with the Bostrom Corporation. The Bostrom Corporation, a management firm located in Chicago, will manage the day-to-day operations of the Illinois Turfgrass Foundation. Bostrom currently manages thirty non-profit organizations. Many of Bostrom's clients are similar to the Illinois Turfgrass Foundation in both size and makeup.

Bostrom's responsibilities will include the management of the Illinois Turfgrass Foundation's accounting and clerical operations. Data processing, which will be used to update and expand our membership, will also be provided by the Bostrom Corporation.