

(Aquatic Growth cont'd.)

and that depth is recorded. A loss of 0.5 metres or more in the secchi depth would indicate the need for a treatment, bearing in mind that the disk is more visible on a sunny day, and that the same observer should take the readings. After a time, a normal treatment pattern will emerge, and algicide applications can be scheduled.

There is a possibility that copper based algaecides would adversely affect fish populations, although the author is personally familiar with two ponds and several lakes where proper use of copper compounds have no discernable impact on resident trout.

Chlorine is also an effective algicide. If the pond's water source is a chlorinated supply, you will enjoy the algicidal properties of the residual chlorine. It is also a relatively easy task to insert a chlorine feed to the inflowing water line. Continuous feeds of chlorine work best in unstratified ponds with short detention times because chlorine residuals are short-lived due to adsorption to suspended organic matter and the sediments.

#### **Aquatic weed control and modifying favorable habitats**

Aquatic weeds thrive at depths of 1 to 3 metres, and rarely penetrate beyond 5 metres. The pond sides should drop steeply to the maximum depth desired for your pond. Where this is not possible, the substrate can be rendered undesirable by covering it with burlap or erosion control fabric. Both of these coverings "breathe" and will not be blown to the surface by gasses accumulating from the sediments.

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## Midwest Breezes



### Upcoming Events — Mark Your Calendar

**June 20** — MAGCS meeting at Sportsman G.C.

**July** — No date or place set for MAGCS meeting

**July 25** — Midwest Regional Turfgrass Foundation Field Day

**August** — No date or place set for MAGCS meeting

**September** — No date or place set for MAGCS meeting

**October** — MAGCS meeting at Prestbury C.C.

**November** — Annual MAGCS meeting

**November 28-30** — Purdue Turfgrass & Ornamental Chemical Seminar

## Midwest Breezes

Your Editor has been kept busy during the month of May in doing consulting work and completing the building of a nine hole private course in Norway, IL. Seven of the 9 greens were regraded and in some instances top mix was added. All of the tees were reshaped and graded. Penncross was seeded on the greens.

Also doing consulting work is Pete Wilson, who is working for the Florida development firm who is building Carillon along I55 just five miles southwest of Bolingbrook. It is a 1400 acre housing and 27 hole golf course development. Pete has to travel at least 5 miles to find a shade tree on this project, for it is built on the flat corn/soybean fields.

If anyone needs to learn how to trap skunks or raccoons, give Wolfgang Muller a call. He recently caught both of them at the same time in the same trap. Being a good supervisor he does delegate his work and this was one time he did so with ease.

Ed Parolek (312) 668-7576 is looking for a used 5 or 7 gang rough units. If you have one for sale, give him a call.

Calendar of Events from Purdue University

**July 25** — 1989 Midwest Regional Field Day

Purdue Agronomy Farm

Contact: Barb Meyer, (317) 494-7221

**November 28-30** — Turfgrass & Ornamental Chemical Seminar

Purdue University

Contact: Barb Meyer, (317) 494-7221

Al Fierst is looking for an assistant at Oak Park C.C. Call him at (312) 453-7525.

## How Much Happened Yesterday?

When you add together all the activities Americans do in one day, the numbers can be surprising.

For instance, each day:

- We eat 200 million pounds of fruit and vegetables
- We eat 1.2 million bushels of potatoes and 228,000 bushels of onions
- We pour 250 billion gallons of water through homes, factories, and farms
- One new insect species is discovered
- Rats and mice damage \$2.5 million worth of property
- About 200,000 tons of edible food are wasted
- We eat 50 million pounds of sugar
- Americans crush 85,000 bushels of cigarette butts
- Six million tons of manure are produced by farm animals
- We make 1.9 million sheets of plywood
- Aches and pains prompt us to ingest 575 bushels of pain reliever

Credit: Greensward, Vol. X, No. 1

## “Summer Tidings”

Spring to Summer, in one Grand Swoop,  
June provides that Loop-De-Loop.  
Summer prospects tend to make One Dreamy,  
As Vacation thoughts are very Seemly.  
But—Summer’s pressures enter the Race,  
Changing dreams to nightmares in many-a-case.  
The challenge it offers, has it’s rewards,  
In winning battles, We sharpen Our Swords.

Kenneth R. Zanzig

## Photos from Kankakee C.C.

by Ray Schmitz



Tom Rodems & Host Greg Coyne



Speaker Bruce Davies from Naturscape Ornamental Grasses

(Japanese Beetle cont'd.)

When irrigation is applied after application of insecticides (as recommended on many pesticide labels), a positive result is the washing of the insecticide off of the leaf blades (Villani and Wright, 1988). A large amount of water need not be applied. As little as 0.4 inches of water may be sufficient to wash the insecticide off the leaf blades and into the thatch area for contact with the insect. This washing of the insecticide off of the blades will help in the prevention of photodegradation of the compound. Analysis of the isazofos (Triumph) treatment followed by irrigation illustrated that 96-99% of the residues were found in the thatch. The insecticide residues measured in the thatch layer were significantly lower in the unirrigated plots than those irrigated immediately after treatment (Niemczyk and Krueger, 1987). The washing also helps to prevent human and animal contact with the toxicants, therefore causing less future environmental concerns.

Other results of irrigation include the movement of the JB grubs upward through the soil into the thatch layer as water is added. This places the grub in the layer with the greatest concentration of the insecticide. As the thatch and soil dry, grubs move down in the soil profile. The JB grubs will move downward or upward from regions of low soil moisture to regions of higher soil moisture (Villani and Wright, 1988). This research illustrates that if irrigation is applied at the correct time, in correct proportion and with the correct amount of insecticide, the control of the grub will be more effective.

A movement of the JB grub downward can dramatically affect the efficiency of the control. A movement of just as much as one centimeter (0.4 inches) downward can keep the grub out of the pesticide layer, thus causing inadequate control of the Japanese Beetle grub. Also, the position of the grub in the profile can play an important role in the depth used when sampling for the insect.

Temperature also plays a critical role in the movement of the grubs. JB grubs feed in the upper soil profile in a stable warm temperature and move downward with the onset of cooling and return to the surface as soil temperatures increase (Villani and Wright, 1988).

In conclusion, one must understand that in order for the control of the JB to be successful the following procedures must be considered and followed: It is essential to be aware of the biology of the JB grub, the developmental stages, the timing of and the correct amounts of water and insecticide required in order to control this insect effectively in turfgrass.

#### References Cited

- Niemczyk, H. D. 1987. The influence of application timing and posttreatment irrigation on the fate and effectiveness of isofenphos for control of Japanese beetle (Coleoptera: Scarabaeidae) larvae w/turfgrass. J. Econ. Entomol. 80:465-470.
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- Vittum, P. J. 1986. Biology of the Japanese Beetle (Coleoptera: Scarabaeidae) in eastern Massachusetts. J. Econ. Entomol. 79:387-389.
- Villani, M. G., and R. J. Wright. Uses of radiography in behavioral studies of turfgrass-infested Scarab grub species (Coleoptera: Scarabaeidae). Ent. Soc. Am. 34:132-143.

Chris Berry received his B. S. degree in Plant Protection, with emphasis in weed science in 1987. He worked two years with the Plant Pathology Department and is currently pursuing a M. S. degree in the Department of Entomology. His work entails preparing demonstration plots for use of the Diagnostic Research and Training Centers for training of agribusiness people in field diagnosis. Mr. Berry will be working on a project that entails infield testing of different soil insecticides for corn and turf to determine the concentration of insecticide at which control is no longer obtained.

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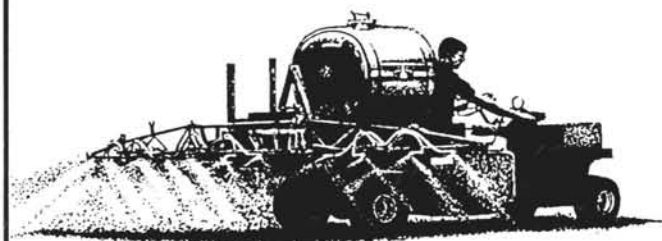
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## Strawberry Picking Time

James A. Fizzell

Sr. Ext. Adviser, U. of I.

Strawberries! Who can resist them? According to James A. Fizzell, University of Illinois Horticulturist from Cook County, we are fortunate to have farms nearby where we can pick strawberries ourselves. You can't get anything fresher than that.

There are "Pick-Your-Own" establishments located throughout the midwest. They are more popular each season as more and more people become aware of them. Many of these farms grow a variety of produce including the strawberries that start off the picking season, and ending with apple and pumpkin picking in the fall.

Before heading out to the berry patch, call to make sure there is picking that day and to see if you need to bring any containers. Wear a hat, sunglasses, and if you aren't used to the sun, long-sleeves and pants.

Some of the berry farms are listed here. For a complete list write the Illinois Department of Agriculture, Marketing Division at P. O. Box 4906, Springfield, IL 62708-4906.

Strawberries look better and keep longer when they are picked and handled correctly. They are tender. They will bruise and discolor anytime they are squeezed. Handle them gently at all times.

Whether you pick strawberries from your own garden or at a Pick-Your-Own farm, keep in mind the following tips:

1. Be careful that your feet and knees don't damage plants or fruit in or along the edge of the row. At a Pick-Your-Own farm, it is important that you pick only on the row assigned

to you. Remember at these farms, these plants are the grower's livelihood.

2. Many growers furnish picking containers designed for strawberries. If you use your own container, remember that heaping strawberries more than 5 inches deep will bruise the lower berries.
3. Pick only the berries that are fully red. Part the leaves with your hands to avoid missing hidden berries ready for harvest.
4. Pick the row clean. Remove berries showing rot, sunburn, insect injury, or other defects from the plants and place them in between the rows behind you.
5. Berries to be used immediately may be picked anytime, but if you plan to hold the fruit for a few days, try to pick during early morning or on cool cloudy days. Berries picked during the heat of the day become soft, are easily bruised and may not keep well.
6. Avoid placing the picked berries in the sun any longer than necessary. It is better to put them in the shade of a tree or shed rather than in the trunk or on the seat of your car. Cool them as soon as possible after picking. Strawberries may be kept fresh in the refrigerator for three or more days depending on the initial quality of the berry. After a few days in storage, the fruit loses its bright color and fresh flavor and tends to shrivel.
7. Give the harvested fruit a soft ride home. When you get the berries home, sort, but do not clean them until just before use. Berries lose food value quickly after washing and capping.

(cont'd. page 19)

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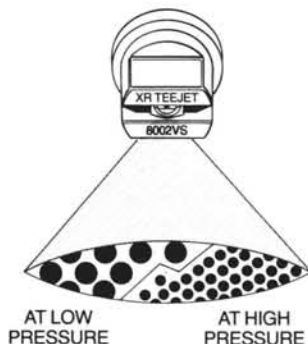
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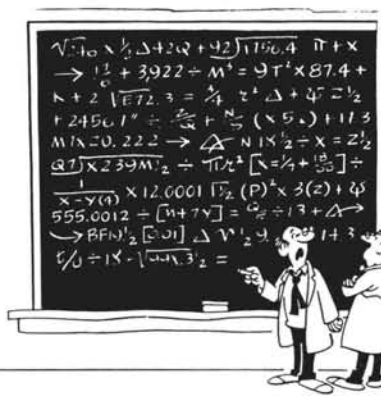
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(Strawberry cont'd.)

For an easy way to use extra berries, try no-cook strawberry jam.

### Uncooked Strawberry Jam

3 cups crushed strawberries (about 1½ quart boxes)  
5 cups sugar  
1 package powdered fruit pectin  
1 cup water

Measure berries into a large mixing bowl. Add sugar, mix well, and let stand for about 20 minutes, stirring occasionally. Dissolve pectin in water, bring to a boil and boil for 1 minute. Add this solution to the berry mixture and stir for 2 minutes. Ladle jam into freezer containers or canning jars; leave ½ inch space at the top. Cover containers and let stand for 24 hours or until jam has set. Store in refrigerator or freezer. Jam will keep up to 3 weeks in the refrigerator or up to a year in the freezer. Makes 7 half-pints.

If the jam is too firm, stir to soften. If it is too soft, bring it to a boil and it will thicken on cooling.

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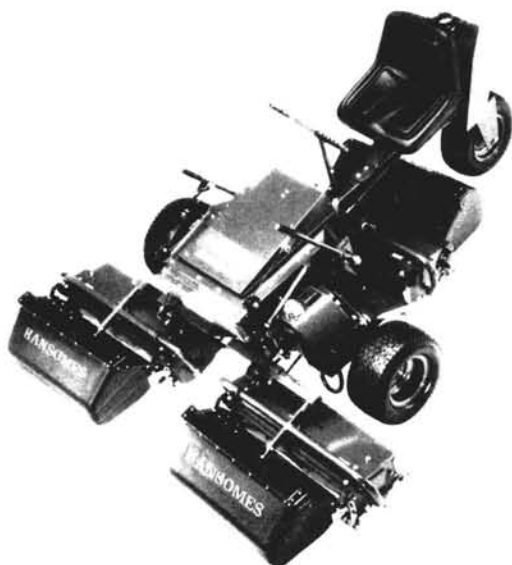
## A Rewarding Handicap

by Edwin Wollenburg, retired superintendent

Several weeks ago, while looking for my ball that had gone askew from the fairway that had been so carefully designed by Robert Trent Jones for me to follow, I came upon a patch of wild strawberries. My pursuit to challenge and humiliate the course rating, ceased here immediately as I feasted on these luscious tiny berries. Wild strawberries have to be the sweetest berries that grow. Why there aren't more of them anymore, is one of those tantalizing mysteries of the open fields.

Wild strawberries once were plentiful in sunny places almost everywhere. I think it has been 50 years since I last plunked one of those sweetest of all morsels into my mouth, I can remember my grandmother telling me, that they used to pick them by the pailful and refer to them as "more pleasing than honey to the tongue." My mother used to make jam from the pickings in the hayfield before it was cut for fodder. A finer jam has never graced a table. And anointed with honest-to-

(cont'd. page 20)



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(Rewarding Handicap cont'd.)

goodness cream, was complete ambrosia. I guess they were the reason for the first strawberry shortcake, and today's modern counterpart is, if not actually a fraud, a poor excuse in comparison.

The mere sight of those wild strawberries took me back to the scenes of my early youth, and I'm sorry for the kids or anyone who has never had the pleasure to have them excite their palate. And I'm in full accord with Monroe Sprowl's little verse or limerick that said:

"If ever I dies an' you ain't certain I's dead.  
Just butter some biscuit and new made bread  
And spread 'em all over with wild strawberry jam.  
Then step mightly softly to whar I am  
An' wave dem vittles above my head ...  
If my mouf don't open, I's certainly dead."

Wild strawberries, when you can find them, as I accidentally did, are prime examples of how much flavor can be stowed in a small package. They seldom are bigger than a fingertip, their juice is blood-red, and their bit of flesh is a concentrate of wild sweetness, so rich you smell their fragrance before you taste it. If there were wild strawberries in Eden, and there must have been, Adam was a fool as well as a sinner to taste any other fruit.

As you can see, I have no comments about my golf game or score, but what I discovered off the beaten path was well worth the handicap of a lousy golfer. I may never play the fairway again.

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