

**THE BULL SHEET, official publication of the MIDWEST ASSOCIATION OF GOLF COURSE SUPERINTENDENTS.**

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**John Berarducci, Pres.**

**PRESIDENT'S MESSAGE**

Let's just call it the year of no sun! What an uncanny season we've been having. Some sections of the Chicagoland area have been pounded with continuous rain while other areas have seen little. At Skokie we've recorded one half inch for the month of June. It has been a great year for stretching chemicals, however, many of us have never used as much fertilizer as this year.

Just another thanks to Merlin Karlock and Mike Hart for the splendid day they offered the Illinois Golf Course Superintendents. Congratulations to Tom Robinson for winning the days event and an exemption in the Illinois Open.

By the time you've read this article, our new directory will have been completed and in the mail to all of you. Special thanks to Penny Meyer for all the hard work.

I hope to see all of you at Skokie C.C. for the August meeting, we have a great day planned and a popular surprise speaker on the agenda!

**MAGCS BOARD OF DIRECTORS FOR 1982**

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 On July 10th, **Ken and Caroline Goodman** celebrated their 25th wedding anniversary.  
 -----

On Wednesday, June 30th, **Gene Sarazin**, returned to Skokie C.C. for a day of golf, and to reminisce his 1922 U. S. Open victory. Gene shot an 81, one year over his age. It's too bad Adolph Bertucci wasn't there to see Gene. At one time they played golf together!  
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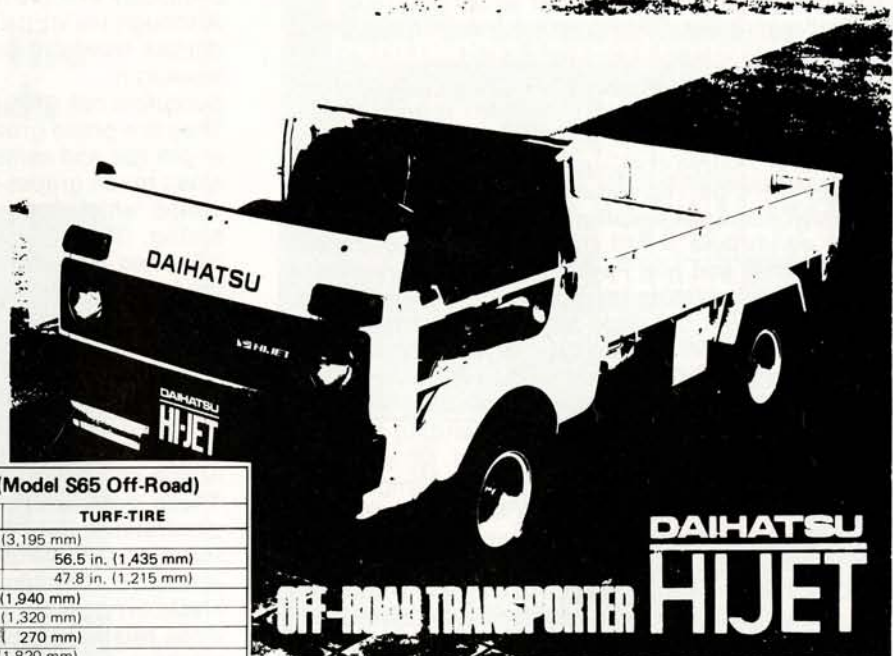
**GEOFFREY CORNISH RECEIVES ASGCA DONALD ROSS AWARD**

Geoffrey Cornish, co-author of "The Golf Course" and the designer of more New England golf courses than any other architect, recently received the Donald Ross award from the American Society of Golf Course Architects for his many contributions to the game of golf and especially golf course architecture. Making the presentation at the Society's recent annual meeting at The Breakers Hotel in Palm Beach, Fla., are Richard Nugent, outgoing Society president, and Robert Trent Jones, a founding member of the Society and the first recipient of the award. Previous recipients of the Ross award, in addition to Jones, include Herbert Warren Wind, Herb and Joe Graffis, Joe Dey, Gerald Micklem, and Gov. James Rhodes of Ohio. Cornish, who resides in Amherst, Mass., is a former ASGCA president.

# The Daihatsu Hijet Greatly Increases Off-Road Transportation Efficiency.

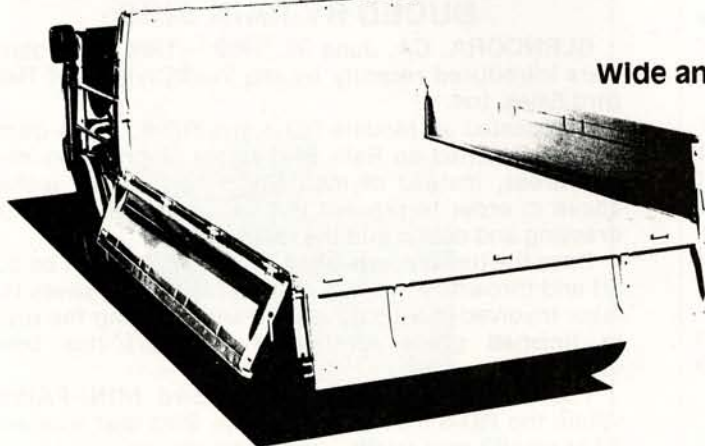


DAIHATSU MOTOR CO., LTD.



SPECIFICATION	DAIHATSU HIJET (Model S65 Off-Road)	
	NORMAL-TIRE	TURF-TIRE
Overall length	125.8 in. (3,195 mm)	
Overall width	54.9 in. (1,395 mm)	56.5 in. (1,435 mm)
Overall height	48.4 in. (1,230 mm)	47.8 in. (1,215 mm)
Cargo box length	76.4 in. (1,940 mm)	
Cargo box width	52.0 in. (1,320 mm)	
Cargo box height	10.6 in. (270 mm)	
Wheelbase	71.7 in. (1,820 mm)	
Track: Front	47.8 in. (1,215 mm)	49.8 in. (1,265 mm)
Rear	46.9 in. (1,190 mm)	48.8 in. (1,240 mm)
Min. road clearance	5.9 in. (150 mm)	5.3 in. (135 mm)
Height of body floor	25.2 in. (640 mm)	24.6 in. (625 mm)
Seating capacity	2	
Kerb weight	1,168 lbs (530 kg)	1,179 lbs (535 kg)
Gross vehicle weight	2,469 lbs (1,120 kg)	2,260 lbs (1,025 kg)
Max. payload	1,000 lbs (455 kg)	750 lbs (340 kg)
Min. turning radius	12.5 ft. (3.8 m)	
Engine	Water-cooled, 2-cylinder, 4-cycle	
Bore x stroke	2.82 x 2.68 in. (71.6 x 68.0 mm)	
Total displacement	33.4 cu. in. (547 cc)	
Max. output	25 PS/5,500 r.p.m. (JIS)	
Max. torque	27.5 ft.-lbs. (3.8 kg-m)/3,500 r.p.m. (JIS)	
Clutch	Single dry plate with diaphragm spring and mechanical actuation.	
Transmission	Forward - 4-speed all synchromesh, Reverse - 1-step selective sliding gear.	
Service brakes	Hydraulic internal expansion type on all wheels.	
Parking brake	Mechanical internal expansion type on rear wheels.	
Suspension: Front	Macpherson - strut type and double acting telescopic shock absorber.	
Rear	Rigid axle with semi-elliptic leaf springs and double acting telescopic shock absorber.	
Tire: Front	5.00-10-4 PR-ULT	20 x 8.00-10-4 PR
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## IF THE SHOE FITS ...

One thing that bothers me at our monthly meetings is the way some of our members show up to play golf. I really don't think that blue jeans and tennis shorts should be allowed on the golf course. At a recent meeting, one of our members showed up in blue jeans that had faded quite badly and had small holes in the knee areas. A member who I know personally, came up to me and made a comment about the way the individual was dressed. It hurt my pride to have this man come up to me and say what he did.

Gentlemen, we are supposed to be professionals in our own field so why not dress like one? It only takes a moment to change from work clothes into proper golfing attire. I think that we would certainly improve our image with our own members as well as those members whose clubs we play each month.

It was certainly a credit to the M.A.G.C.S. to see Mr. Ray Gerber and Mr. Paul Voykin accept awards at our national convention and show in New Orleans dressed in coat and tie. As I looked around the room, I saw numerous superintendents, not necessarily from our association, dressed in blue jeans. Here we had Mr. Jim McKay from our National Vice-President's Club to give a keynote address which was outstanding and who will probably never see many of us again. Do you think that his first impression of us as a group might be a lasting one? I do and that is why I feel that we should dress a little bit better than the way we go to work.

At the club level, the grounds department at Briar Ridge C.C. are given four tee shirts with the club name on the back. They are required to wear these shirts daily with blue jeans without holes. The members appreciate this very much and especially when they have guests. Also, if something is wrong, dead cart for instance, they know that if they tell someone in a yellow tee shirt, it will get back to the pro shop promptly.

Don't get me wrong, I realize that we don't and will not get paid by the way we dress; however, I feel that we should look as presentable as possible. By improving our own image, we can only help ourselves as well as make our members proud of their grounds crew and their superintendent.

I recently held an Indiana PGA event at my club and got some feedback through the mail about the course and the tournament. It was interesting for me because most of them mentioned the grounds crew, not only for the job they did, but how polite they were. Also, one participant came up to me and asked if I allowed any of my employees to wear tank tops or go without a shirt while working. I responded with an emphatic "No". He was very appreciative of that and told me that he thought all clubs should make their employees wear shirts all of the time, just the same as golfers are required to do on almost all courses.

In summary, let's make an effort to come to our monthly meeting dressed as golfers, not employees. It can only help our image at the club we are playing at. It also has to make the host superintendent proud to be associated with people who know how to dress for an occasion. In 1979, a code of ethics was adopted that requires sport coats to be worn at all dinner meetings. Let's keep this in mind each month.

**Joe Williamson**  
**Briar Ridge Country Club**

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Sunshine is delicious, rain is refreshing, wind braces up, snow is exhilarating; there is no such thing as bad weather, only different kinds of good weather.

**Ruskin**

## LEAF GALLS ON SHADE TREES

Galls are abnormal growths on plants. They come in a variety of shapes, sizes and colors depending on the insect, disease, or environmental condition that caused them. According to James A. Fizzell, University of Illinois Horticulturist in Cook County, when insects cause these tumors, the growth is stimulated by chemicals that the insect produces.

Although insect galls on the leaves of shade trees may detract from the beauty of the tree, they really don't weaken it.

Succulent oak galls are very common on oaks this year. They are green growths that occur at the base of leaves of pin oak and some other oak varieties. They look like small green grapes and are caused by tiny non-stinging wasps which lay eggs as leaves are emerging in the spring. The pin oak leaves continue to develop into full-sized leaves and no more galls are produced until the following spring.

Honey locust pod galls are actually leaflets that are deformed into small, green to reddish balls about 1/8 inch in diameter. The flies that cause these galls have several generations a year producing additional galls on honey locust throughout the summer.

Maple bladder galls appear as green, pinhead-sized lumps on maple and box elder leaves in the spring. These galls are caused by mites that have several generations that produce additional galls throughout the summer. Although these galls are green when produced, they soon turn red.

Hackberry nipple galls are caused by insects that are close relatives to aphids, called psyllids. The gnat-like adults enter our homes in the fall to hibernate for the winter and return to hackberry leaves in early spring to lay their eggs. The immature psyllids that hatch from these eggs cause the green, nipple-like galls to be formed around themselves as the leaves develop. One generation is produced each summer that emerges as adults in the fall.

Generally says Fizzell, control measures are not recommended for gall producing creatures, since galls on leaves usually cause no apparent harm to the tree. Although the appearance of the leaves may be different from normal, seldom is the gall infestation large enough to be noticeable except by close inspection.

**James A. Fizzell, Sr. Extension Adviser**  
**Horticulture — University of Illinois**

## NEW ROTOR DAM MODELS INTRODUCED BY RAIN BIRD

GLENDORA, CA, June 30, 1982 -- New rotor dams were introduced recently by the Turf Division of Rain Bird Sales, Inc.

Designated as Models RD-3 and RD-6, these dams can be mounted on Rain Bird rotors at grade on new turf areas, instead of mounting rotors a few inches above in order to prevent the back wash of seed, top dressing and debris into the rotor case.

Once the turf is established, the rotor dam can be cut off and thrown away. This disposable feature saves the labor involved in digging around and lowering the rotor to finished grade level after the turf has been established.

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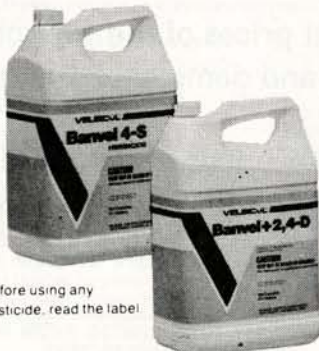


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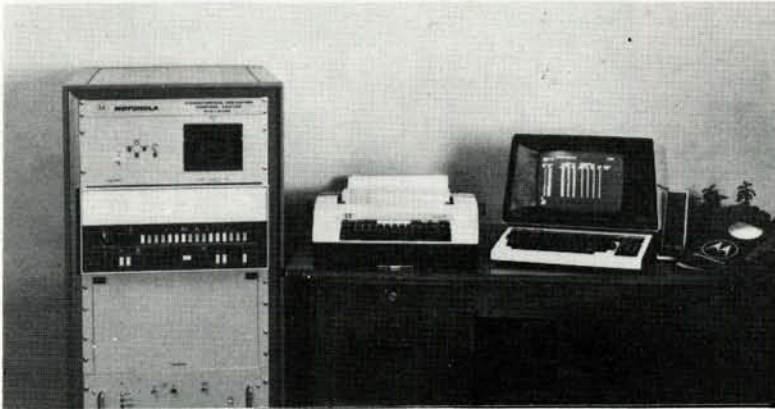
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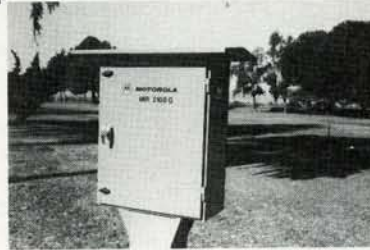


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1. Remove the ignition wire from the spark plug before sharpening the blade or removing debris from under the housing.
2. Make certain that hands and feet are away from the blade before starting the mower.
3. Never refuel a hot engine. Make certain the tank and cap do not leak. Fill the tank on the driveway, or sidewalk, away from the lawn.
4. Remove all debris, rocks, toys, sprinklers, etc., from the lawn before starting to mow.
5. Never pull the mower backward. This greatly increases the opportunity for accidents.
6. Keep children and pets away from the mower while mowing. Never allow small children to operate the mower.
7. Do not allow anyone to stand or walk beside the discharge ports.
8. Stop the mower whenever you leave for just a few moments.
9. Try to avoid mowing turf when the grass is wet. It is difficult to cut properly and footing may be uncertain.
10. Mow across steep slopes and not up and down. Try to wear shoes that assure good traction.

Credit — Divots, July 1982



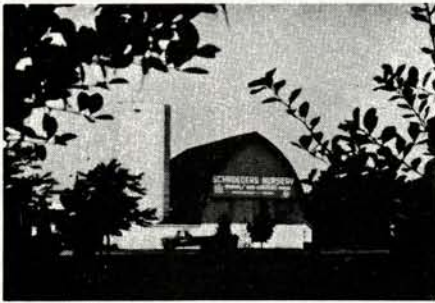
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## THATCH REDUCTION

Thatch - a tightly intermingled layer of dead and living stems and roots that develops between the zone of green vegetables and the soil surface. The recommended thickness of the thatch layer on a putting green should range from .125 to .25 inches, this providing the appropriate resiliency desired for proper ball bounce. In addition the thatch layer increases wear tolerance and helps to stabilize the greens micro-climate during temperature extremes.

At this time I would like to shift from the text book facts to the realities some superintendents are facing, thatch layers ranging from .5 to 1.5 inches. Four years ago the putting greens at my golf course were at the upper extremes of this range. At that time I wished to develop a program to reduce this thatch layer which was effective; yet, workable within my budget limitations. My goal was to reduce the thatch to the recommended thickness in three years time. The plan went as follows:

### Year One - May

1. Deep groove verticut (knives set .25 inches below the putting surface)
2. Double cut greens to remove runners
3. Topdress with a 7-2-1 mix (this mix is comparable to the greens original construction mix.)

### September

1. Aerify greens, remove all cores
2. Topdress heavily and drag in until the aerifier holes are completely filled.

The following spring I found I had excellent results in thatch reduction, but, one must realize the initial reduction in my case of over fifty percent of the original layer which becomes more difficult.

In year two I changed the plan slightly. I did not verticut as deep because I felt the insuing puffiness and scalping were undesirable. The actual plan went as follows:

1. Verticut (knives set .125 inches below putting surface)
2. Topdress lightly
3. Verticut once per month thereafter including July and August
4. Mow greens with combs down at all times
5. Aerify in September remove cores and topdress heavily.

The following spring of 81 I found this program had limited success in diminishing the remaining thatch layer; which was on the average of .5 inches. So, after doing some more research on the subject I set up the third year's program.

1. May - verticut (knives .125 inches below putting surface)
2. Topdress lightly
3. Verticut once per month thereafter
4. Fertilize greens with a soluble nitrogen source on a weekly basis, rates as needed. Mine varied from .25 lbs. of N per 1000 sq. ft. to .10 lbs. per 1000 sq. ft.
5. September - aerify, verticut cores and drag back in.
6. Topdress lightly two weeks later.

As of the spring of 82, I am pleased with my results. Since, I did achieve my goal in the third year I have a tendency to attribute my success to the addition of the weekly applications of soluble fertilizer which provide a carbon/nitrogen ratio in the thatch layer more conducive to the decomposition of stem and crown matter. I do not think it can be stressed enough how important this factor is in the decomposition of thatch due to the constant leaching of nitrogen from this layer of the greens profile.

To summarize I would say I found that the problem of thatch reduction was much more difficult that I had imagined. One might find it very easy to be satisfied with the initial results and then curse the insuing struggle to reduce this layer any further without the manpower or the money to topdress on a more routine basis. However, one will find that persistence in this case has many benefits for the golf course. The obvious being the improved playability of the greens. Other factors include reduced use of wetting agents, dramatic increases in fertilizer efficiency, marked reduction in disease activity, and less sleepless nights.

David Behrman  
Deer Creek Golf Course

## LAUPHEIMER NAMED TO NGF BOARD

John Laupheimer, commissioner of the Ladies Professional Golf Association, has been appointed to the Board of Directors of the National Golf Foundation, it was announced today by Jim Long, chairman of the NGF Board.

Laupheimer, who joined the LPGA as executive director in October, 1981, succeeded Ray Volpe as commissioner in April, 1982. The Princeton graduate has been active in golf administration for the past 26 years and held a number of executive positions with the United States Golf Association prior to joining the LPGA.

Frank Smith, president of the National Golf Foundation, stated that "Besides adding a quarter century of wisdom to our decision-making body, Laupheimer's appointment represents a continuation of NGF's efforts to promote a greater unity among the leading organizations of golf. John joins a board which among others includes Deane Beman of the PGA Tour, Joe Black of the PGA of America, Jim McLoughlin of the GCSAA, and Jack Snyder of the ASGCA."

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