A PATCH OF CRITICAL PARTIES AND A PATCH OF CRITICAL PATCH OF CRITICA

September/October 1995

GOLF COURSE SUPT. ASSOCIATION

MICHIGAN

- Tribute to George W. Prieskorn
- Fall Weed Control
- Guide To Lightning Safety
- Personal Protective Equipment Standards



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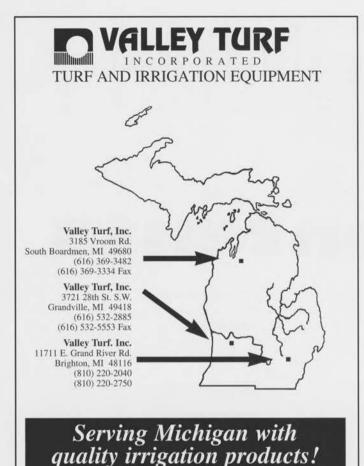
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Red Run Golf Club Hosts

1995 Michigan Amateur

Red Run Golf Club and superintendent Gary Thommes, CGCS, hosted the 1995 Michigan Amateur on June 20-24. Red Run has been a strong supporter of various championships through the years, having hosted the Motor City Open in 1950 and 1952 and the Western Open in 1958.

Gary and his assistant Tom Leh had the course in excellent shape, considering the first major heat wave of 1995 and minimal rainfall since Memorial Day. Hand syringing the greens kept them smooth and firm which gave them a stimpmeter reading of 10.5 feet at a mower height of .095 inches.

The membership at Red Run should be proud of Gary's work, and this Michigan Amateur will be added to the esteemed history of Red Run Golf Club.

The original field included 610 players from which 150 players emerged after nine sectional qualifying sites around the state. The winner was Jackson native Steve Maddalena.



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September 18

Membership Meeting - Greystone

October 2

The Big Event:

Baypointe Golf Club Detroit Golf Club Meadowbrook Country Club Walnut Creek Country CLub

October 24

Annual Meeting -Maple Lane Golf Club

December 11

Year in Review -Birmingham Country Club

onpar with president



Too often it takes a tragedy to make people realize the importance of friendships. Unfortunately, on July 5th the golf community, not just locally but nationwide, lost a dear friend in George Preiskorn. It's been

said many times, "The good die young," and George certainly fits that phrase to a tee. George not only was a good man, but a great leader—a man who only was satisfied with excellence in his business. His greatest trait, possibly, was that he was a dedicated son.

George and his brother Gerry purchased Bald Mountain Golf Course in 1986. We were good friends prior to that, but our friendship was enhanced due to the proximity of our work places. Many times over lunch we shared thoughts about work habits, golf swings and life in general. I certainly will feel the loss of my good friend, and I'm sure his many friends in our association will miss his wisdom and kind smile. The Preiskorn family wishes to thank everyone for the many donations given in George's name and their kind thoughts and prayers.

I want to take this opportunity to remind everyone, including myself, that friendships should not be taken for granted. The warmth of friendship can drift away without frequent rekindling.

Stephen Lauvine said, "If you knew you were going to die soon and had only one phone call you could make, who would you call, what would you say and why are you waiting?" On that note, I would like to recognize some of the people who have influenced my life, both personally and professionally.

Two gentlemen who helped me make it through my green years while at Gowanie Golf Club: Gene Johanningsmeier and Don Benham. Many times when bugs or fungus, or just people, were eating away at my

course they would be there to rescue me from sure disaster. Today, they're still helping me and many other turf managers cope with the stress of growing turf. Thanks, guys.

Good friends like Clem Wolfrom and Ward Swanson have shared their knowledge and experiences with me on golf course maintenance issues, as well as preparing and encouraging me.

For more than 20 years I have known Kurt Kraly and consider him one of my closest friends. He was steadfast through my best and worst, hard times and good, and has been a part of some of the funniest times I can remember. From short cuts through state parks and, one I'll never forget, a demonstration of his first high-powered bow. It was behind the maintenance barn at Gowanie Golf Club. Robin Hood aimed at the giant oak, but came up a little short, striking my brand new 1" irrigation hose, which had not yet had water run through it. I'm sure that was the only snake ever shot by a compound bow. Kurt, you've been the best. Many thanks.

New friends are equally important. Paul Dushane has been an inspiration when I have been down, looking for answers to questions concerning our association. He many times has calmly pointed me in the right direction. Paul has proven to be an asset to the membership and will continue for many years. Thank you, my friend.

I don't consider myself an inspiration, but take my advice. Next time you're thinking of a good friend and remembering past times, stop and give him or her a call. No reason needed. Just say, "I was thinking of you and wanted to say hi and catch up."

Jay Delcamp



George Prieskorn

1935-1995

George Prieskorn was born July 4, 1935, in Brighton, Michigan, the son of George A. and Lucile (Ash) Prieskorn.

A graduate of Michigan State University, George served with the U.S. Army. Prior to becoming the co-owner and manager of Bald Mountain Golf Course in Lake Orion, he was the resident manager of Burroughs Farms, Brighton, was a former maintenance manager for the Huron-Clinton Metroparks and a former Brighton High School teacher, football and golf coach. He was an active member of St. George Lutheran Church, teaching catechism for many years, as well as serving in other capacities.

George made many contributions to the MBCGCSA and served as president of the MBCGCSA from 1976-1977. George played as part of a three-member team representing the GCSAA in the Second British International Greenkeepers Superintendents Golf Tournament at the Walton Heath Golf Course in London, England, in October 1976. Much to the pride of the MBCGCSA, the GCSAA team finished first by scoring an 89 in the threeball, better-ball, 36-hole tournament. George received a hero's welcome when he returned to Michigan.

George died in the early hours of Wednesday, July 5, 1995. Surviving are his mother, Lucile, his brother, Gerald, and his wife Kay, two nieces, Stephanie and Stacey, a nephew, Gerald, and a great-nephew, Justin.

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Industry News

Benham Chemicals has extended the hours at its Saginaw facility and is now open for customer pickup Monday through Friday from 8 a.m. till 5 p.m. Saturday service will be available in spring and as weather dictates during the ice melter season.

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Carl Quackenbush will head up this service center expansion. Carl joins Benham Chemical from Stanton Seed, where he worked in customer service, warehousing and delivery. Carl's extensive experience and knowledge in agriculture will benefit Benham customers.

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Gordie Bushong has more than 10 years' experience in lawn care and nursery industries and is a Michigan Certified Nurseryman. He will cover areas north of Bay City and work with golf, lawn care, municipalities and tree service.

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MBCGCSA BOARD MEETING HIGHLIGHTS

KNOLLWOOD COUNTRY CLUB MONDAY, JUNE 19, 1995

Membership (Shreve):

Membership totals 394, and nine applications for membership were approved.

Member Relations (McKinley):

Has produced a new brochure/application. Hopes to have it available at the next meeting.

Finance (Dushane):

The Bylaws for the Foundation will be sent to the membership and voted on at the August meeting.

Special Olympics (Hock/Co-Chair):

Met our goal of \$12,500. Our donation will be earmarked for needy chapters in our area, Special Olympic Golf activities and the balance to Michigan Special Olympics. Congratulations to the Committee on a job well done!

Golf Day (Szyndlar):

Golf Day will be held on Monday, October 2. Four sites have been confirmed: Detroit G.C., Meadowbrook C.C., Bay Pointe G.C., Walnut Creek C.C. Still looking for the final site.

Statewide Magazine (Kolbe):

A meeting is planned for mid-July in Mt. Pleasant, at which Kolka & Robb, Inc., the publishers of *A Patch of Green* will present their

proposal for producing a statewide magazine to the editors and officers of the Western, Northern and Mid-Michigan Associations.

Disaster/Relief Fund:

The Board approved the establishing of a Disaster/Relief Fund to aid local members and their immediate families in time of need. Two dollars per attendee per monthly meeting will be allocated to the fund. Funds will be distributed at the Board's discretion.

KNOLLWOOD COUNTRY CLUB MONDAY, JULY 24, 1995

Membership (Shreve):

Membership totals 401, and three applications for membership were approved.

Finance (Dushane):

Dues: Dues statements will go out by August 15. Dues must be paid by October 1.

Relief fund:

Attorney investigating necessary procedures to establish fund.

Golf Day (Szyndlar):

Continuing to seek fifth site.

Statewide Magazine (Kolbe):

Meeting was held on July 13 at Mt. Pleasant, with all associations represented. Kolka & Robb, Inc. made presentation. Associations to consider.

Picnic (McKinley):

Date: Saturday, August 19 Site: Gunnar Mettala Park,

Wixom

Call in reservations.

Bring a side dish to pass.

Baked Bean Cook Off.

Nominating Committee (DeBusscher):

Committee of past presidents meeting to establish slate of nominees for October election.

Past Presidents' Luncheon (DeBusscher):

Luncheon to be held annually during first week of November for purpose of sharing and planning.

COMMITTEE REPORTS

Membership Relations Mark McKinley, Chairman

The membership relations committee was set up this year to try to encourage members and non-members to get involved. Our feelings are that this association's main functions are to educate and serve members. This only can happen if people in the industry commit the time to become active.

One area that is being addressed is comfort at meetings. The first few meetings can be difficult for new members. I would encourage everyone to take a moment to talk with new people and encourage them to join the interaction between

superintendents. Name tags will be supplied at each meeting to enable you to meet more people.

The August meeting was designated as 'bring a guest day' and is intended to give our active members a chance to bring a non or inactive member to a fun event. The committee has developed an informational flyer which includes the purpose and benefits of the association along with an application. This pamphlet should help members approach others in the industry.

The final area this committee would like to promote is more members active in the running of this association. There are so many things that everyone could do, for example, volunteer to work on a committee, help organize meetings, submit an article for A Patch of Green...to name a few. Please feel free to give the board or this committee any ideas that possibly could benefit this industry.

The Big Event Ed Hock, Chairman

October 2, 1995, marks the 30th year of Michigan and Border Cities' promotion and participation in the Big Event. Over the past 30 years, many country clubs in southeastern Michigan have participated by donating their facilities for the fundraising event. The monies raised, in excess of \$300,000, have gone for turf research and scholarships. Last year's donations of \$22,000 to MTF was the largest

This year's participating clubs include Meadowbrook Country Club, Detroit Golf Club, Bay Pointe Country Club, Walnut Creek County Club and a yet to be determined fifth site.

Traditionally, food, drink, prizes and the opportunity to play at a beautiful facility are what you receive for a nominal fee.

The field is limited to 100 players per course, and the sooner you get your application in the better chance you have at playing the facility of your choice.

So, don't forget to mark October 2 on your calendar. Get your friends together and get out for a beautiful fall day of golf. Your participation plays a very important role for all of us and the research done at Michigan State University.

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Fall Weed Control

by Keith Richards

This summer has been devastating to the rough of many golf courses, leaving opened turf for the encroachment of weeds. With or without opened turf, fall weed control has many advantages over spring weed control.

In the fall, perennial weeds are storing carbohydrates for overwintering and initial spring growth. This process draws a herbicide application deeper into the plant, killing both the vegetation and the root of the plant. Some perennial weeds, such as the dandelion, do not produce a flowering structure until they overwinter.

The time of emergence or germination varies throughout the spring for different weeds. An early application of a herbicide may miss different weeds like the late emerging buckhorn. By applying a herbicide in the fall, all weeds will have emerged or germinated.

The best control of weeds is a full stand of turf. Spring weed control leaves open spaces in the turf that may not fill in due to an early hot summer. In the fall, the turf area has plenty of time to recover from summer stress and fill in after a herbicide application.

The best control method for weeds always is a full healthy stand of turf. When a herbicide is used, it must be applied to actively growing weeds. Dr. Bruce Branham has conducted many studies on weed control, two of which appear in the 56th and 60th Michigan Turfgrass Conference proceedings. In



these studies, it is clear that one specific herbicide does not control all weeds. It seems to be a standard practice to tank-mix different herbicides depending on the weeds being controlled. Most commonly, products like Confront, Banvil or Buctril which kill hard to control weeds such as buckhorn, speedwill, Oxalis and canada thistle, are mixed with a two or three way product. Herbicide selection is dependent on weed identification. Proper weed identification allows for the best control at the best cost. The hard to kill weeds tend to be the more expensive to control. Control in an area where hard to kill weeds are identified can cost \$16 to \$22 an acre, compared to \$9 to \$12 an acre.

Non-target plants are not as vulnerable to herbicide damage in the fall. Non-target plants have either hardened off considerably or lost their foliage during a fall herbicide application. If severe hard-to-kill weed infestation is a problem, ester formulations of a herbicide can be used. Ester formulations are not recommended in the spring due to their increased volatility in the warmer spring weather.

Fall applications can benefit a superintendent by providing better weed control during a time when operations are winding down instead of winding up. Any weeds missed in the fall easily can be controlled in the busy spring time. Any opened turf after weed control can be closed with a good fertility program during the rest of the fall and spring.

Ball Roll Comparison: Soft Spikes Versus Traditional Metal Spikes



by John Morrow and Karl Dannenberger Department of Horticulture and Crop Science, The Ohio State University

(This article appeared in the January/February 1995 issue of Divots, the official publication of the Miami (Ohio) Valley Golf Course Superintendents Association.)

According to a USGA study, the average golfer takes 28 paces per green and the average golf shoe has 12 spikes; 28 paces times 24 spikes yields 672 impressions per player per green; 672 impressions times 18 greens equals 12,096 impressions per round per player. Assuming a course receives its daily average of 200 rounds, the greens receive 2,419,200 impressions every day, which comes to more than 72.5 million spike marks each month.

In theory, a golf ball rolling across a green pocked with spike marks would not roll as far as a ball on an unmarked green. This is due to the fact that each time the ball strikes a spike mark, it briefly loses contact with the putting surface. Over a distance of several feet, these subtle bounces may cause a significant reduction in ball roll.

Soft spikes have recently been gaining acceptance with golf course superintendents and golfers as a viable alternative to traditional metal spikes. This experiment was conducted to determine if use of soft spikes in lieu of traditional metal spikes would have a significant effect on ball roll.

Methods

During the autumn of 1994, a study was initiated at the Ohio State University Turfgrass Research Center in Columbus to compare the effects of soft versus metal spikes on ball roll. The study was conducted on a creeping bentgrass (Agrostis palustris Huds. cv. Penncross) turf maintained at 3/16th of an inch. The treatments included soft spikes (Softspikes, Alexandria, VA), metal spikes (Footjoy) and an

untreated control. Each treatment consisted of walking with the soft or metal spikes for 10 minutes within a plot measuring 2 x 12 feet. The control did not receive a walking treatment. A single person, 5 feet 11 inches in height and weighing 160 pounds, was used as the walker throughout the study. The shoes used in the study were size 10 Footjoys. Upon completion of the walking, a stimpmeter was used to measure the distance a golf ball rolled. The treatments were conducted four times between October 20 and November 7 between the hours of 1 and 3 p.m. Each treatment was replicated three times in a completely randomized design.

Results and Discussion

Three of the four reading dates showed a significant increase in ball roll with the soft spikes compared to both the metal spikes and the control. The initial readings taken on October 20 showed no difference in ball roll between the soft and metal spikes; however, both were significantly greater than the control.

The control was consistently the shortest ball roll treatment. This may seem counterintuitive; however, the control plots were not walked upon, while the soft and metal spike treatments received intensive traffic from walking. In essence, the walking served as a light "rolling." As a result, the metal spiked treatment, even with the spike marks, rolled farther than the control which did not receive the "rolling."

Although the comparison between soft and metal spikes on a putting green setting was somewhat "amplified" by confining the research to a small plot area, the significance of the data cannot be dismissed. Soft spikes are more likely to result in increased ball roll in situations where greens become excessively

Continued on page 27



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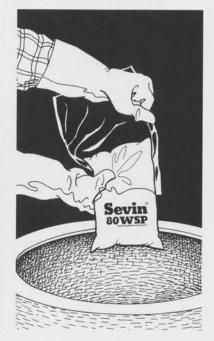
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Personal Protective Equipment Standards

by Jeff Dauzy Manager, Loss Control, CoreSource, Inc.

Michigan has revised and amended the standard on Personal Protective Equipment. The standard was effective on June 19, 1995.

Under the amended standard, employers will be required to perform workplace hazard assessments. These assessments will be used to determine the presence of hazards that necessitate the use of Personal Protective Equipment. Employers will then have to select appropriate equipment to protect affected employees from these hazards. In addition, employers will be required to educate and train all affected employees in the proper use and maintenance of personal protective equipment.

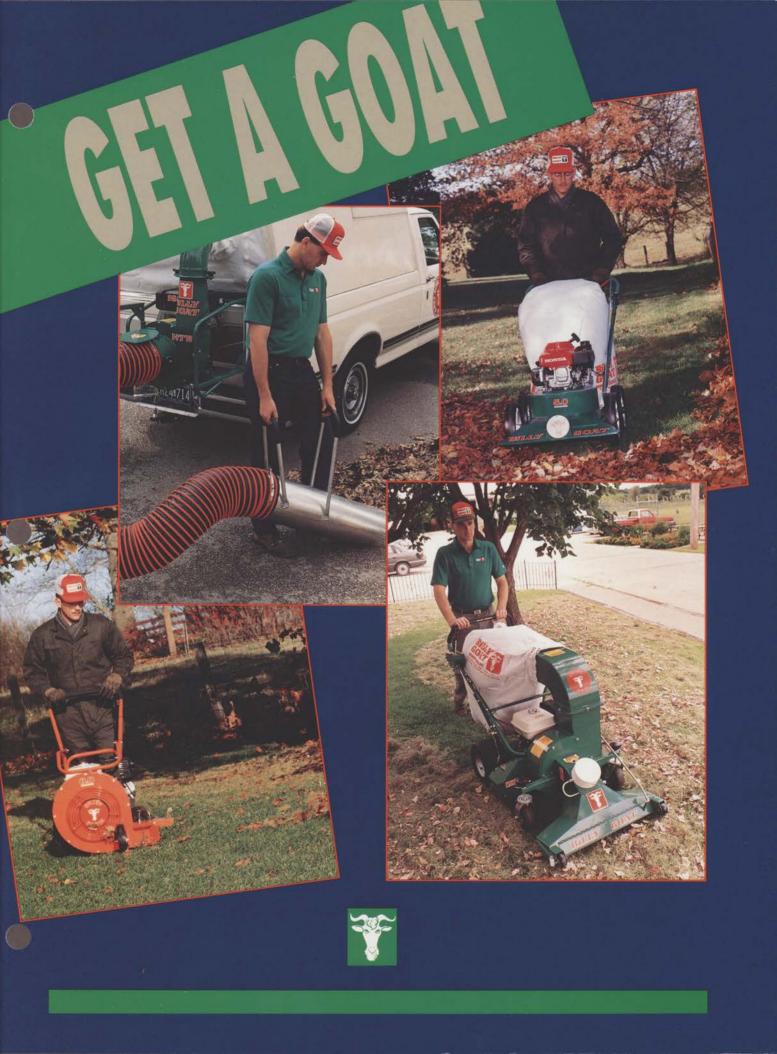
Hazard Assessment and Equipment Selection - R408.13308:

The employer shall assess the workplace to determine if hazards are present or are likely to be present which necessitate the use of personal protective equipment. If such hazards are present or likely to be present, the employer shall:

- * Select personal protective equipment that properly fits each affected employee.
- * Communicate selection decisions to each affected employee.
- * The employer shall verify that the required workplace hazard assessment has been performed through a written certification that identifies the workplace evaluated, the person certifying that the evaluation has been performed, the date(s) of the hazard assessment and which identifies the document as a certification of hazard assessment.
- * Defective or damaged personal protective equipment shall not be used.

Training - R408.13309:

- The employer shall provide training to each employee who is required by this standard to use personal protective equipment. Each employee who is required by this standard shall be trained to know at least the following:
 - * When personal protective equipment is necessary
 - * What personal protective equipment is necessary
 - How to properly don, doff, adjust and wear personal protective equipment
- 2) Each affected employee shall demonstrate an understanding of the training specified in subrule (1) of this section and the ability to use personal protective equipment properly before being allowed to perform work requiring the use of personal protective equipment.
- 3) When an employer has reason to believe that any affected employee who already has been trained does not have the understanding and skill required by subrule (2) of this section, the employer shall retrain the employee. The existence of any of the following circumstances requires retraining:
 - * Changes in the workplace that render previous training obsolete
 - * Changes in the types of personal protective equipment to be used that render previous training obsolete
 - * Inadequacies in an affected employee's knowledge or use of assigned personal



KD, TKD & LB SERIES VACUUMS



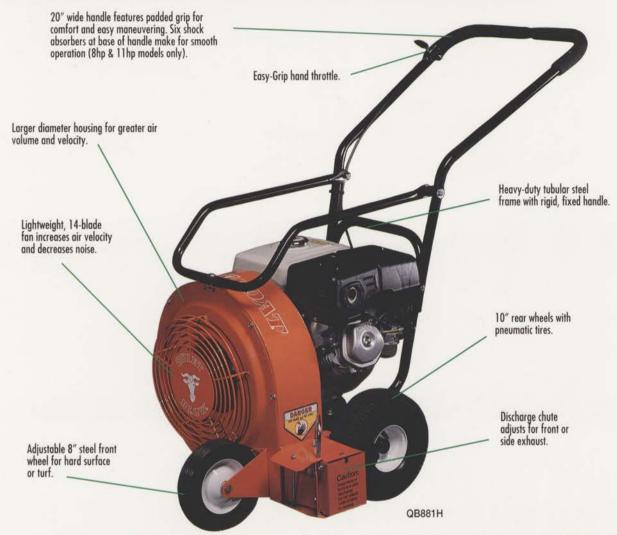
KD505H

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MODEL	RIES SPECIFICATIONS ENGINE	& OPTIC FUEL CAPAC UNLEADED	CITY WEIGHT	(lbs) SHIPPING	MODEL ENGINE	CATIONS & OPTIONS: FUEL CAPACITY WEIGHT (lbs) UNLEADED GAS UNIT SHIPPING
PUSH: KD505Q KD505ICQ KD505H KD505HS SELF-PROPI	5.5hp Honda 5.5hp Honda with liner	1.5 Qt. 1.5 Qt. 2.01Qt. 2.01Qt.	103 103 112 122	120 130 135 135	PUSH: LB50Q Shp Briggs & Str Carton size: 3015/16" Available equipment	ration 1.5 Qt. 75 90 L x 21 ¹³ / ₁₆ " W x 21" H (8.2 cu.ft.) mt: 900460 4" Intake, 10' Hose kit
	5hp Briggs & Stratton size: 37 3/4" L x 27 1/2" W x	1.5 Qt. 26 3/4" H (16	135 5.07 cu.ft.)	140		
TERMI TKD505ICQ TKD505H SELF-PROPI	5.5hp Honda	1.5 Qt. 2.01 Qt.	15: 121 133	144 156	TERANUTE. THE FIRST ALL-IN-ONE TURF	Ebh
TKD505SP Carton	Shp Briggs & Stratton Diamond Pl size: 37 3/4" L x 27 1/2" W x	us 1.6 Qt 26 3/4" H (16	133 5.07 cu.ft.)	156	VACUUM AND CHIPPER. IT'S SELF-PROPELLED!	
Availal 890305	ble equipment (KD Se Synthetic felt KD bag	ries & Te 900801	rmite): Bag dust cover			
890307 890309	(same as original equipment) Turf/wet weather bag Zipperless Mesh bag Rear caster (hard surface) kit	900810 900942 900943	Nozzle wear pla 4" Homeowner 4" Heavy-duty i	intake hose kit	TKD505SP	CORT

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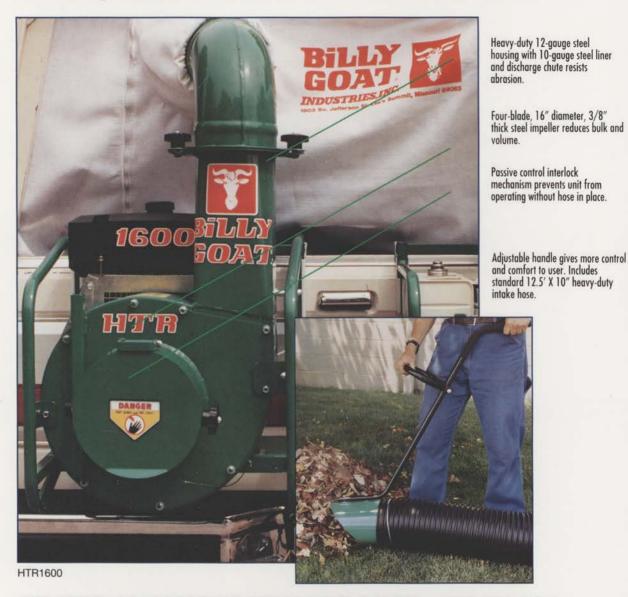
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MODEL	ENGINE	FUEL CAPACITY UNLEADED GAS	UNIT WEIGHT (lbs)
3L53	Shp Briggs & Stratton	3.0 Qt.	63
QB501	5.5hp Briggs & Stratton	3.0 Qt.	100
2B881	8hp Briggs & Stratton	4.0 Qt.	115
2B881IC	8hp Briggs & Stratton IC	4.0 Qt.	116
QB881H	8hp Honda	6.4 Qt.	138
B11011C	11hp Briggs & Stratton IC	6.0 Qt.	136
QB1101H	11hp Honda	7.4 Qt.	140
QB1601	16hp OHV Briggs & Stratton	7.2 Qt.	212
2B1601SP	16hp OHV Briggs & Stratton	7.2 Qt.	284
Availab	le equipment:		
400620	Crevice cleaner kit		
100685	Gust adjuster kit (QB1601 only)		
400686	Deflector remote kit (QB1601 only)		

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HTR SERIES SPECIFICATIONS & OPTIONS:					TR SERIES SPECIFICATIONS & OPTIONS:			
MODEL	ENGINE		CAPACITY ADED GAS	UNIT WEIGHT (lbs)	MODEL	ENGINE	FUEL CAPACI UNLEADED G	Mary American American
HTR1600	16hp Briggs & Stratton Twin OHV Vanguard	5.0 Q	t.	208	TR801IC TR1101IC TR1101H	8hp Briggs & Stratton IC 11hp Briggs & Stratton IC 11hp Honda	4.0 Qt. 6.0 Qt. 7.4 Qt.	161 179 183
Availa	ble equipment:				Availa	ble equipment:		
810506	7" Exhaust coupler kit	810660	Bag 1.3 cut	pic yards	810507	7" x 12.5' Replacement hose	810637	11" Swivel extension
810584	Panel filter kit	810705	10" x 12.5	Replacement hose	810508	7" Exhaust hose kit	810660	Bag 1.3 cubic yards
810508	7" Exhaust hose kit	810776	10" Connec	tor kit	810523	8" x 12.5' Replacement hose	810990	Trailer Hitch Mount TR/HTF
810637	22" Swivel extension	810990	Trailor Hitel	Mount TR/HTR	810584	Panel filter kit		

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VQ801HPG

MODEL PUSH:	ENGINE	FUEL CAPACITY* UNLEADED GAS		HT (lbs) SHIPPING
VQ801IC VQ801H VQ801HG	8hp Briggs & Stratton IC 8hp OHV Honda 8hp OHV Honda Propane	4.0 Qt. 6.4 Qt. 20lbs*	220 222 227	252 254 259 (w/out tank)
SELF-PROPEL VQ801ICP VQ801HP VQ801HPG	8hp Briggs & Stratton IC 8hp OHV Honda 8hp OHV Honda Propane	4.0 Qt, 6.4 Qt, 20lbs*	276 278 283	308 310 315 (w/out tank)
Carton :	size: 50 1/8" L x 34 5/8" V	V x 31" H (31.14cu.ft	.)	
830255	le equipment: Propane tank kit (27lbs) "x 8' Intake hose kit Aganetic bar kit	830282 Turf bo 830284 Dust co *LP Vapor Gas on	ver	

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BT80VIC Vacuum

MODEL	ENGINE	FUEL CAPA UNLEADER		UNIT WEIGHT (lbs)
PUSH:				
BG50A	5hp Briggs & Stratton	4.0 Qt.		160
BG60AIC	8hp Honda or Briggs & Stratton IC	4.0 Qt.		176
SELF-PRO	PELLED:			
BG80PIC	8hp Briggs & Stratton IC	4.0 Qt.		203
Availa	able equipment:			
800081	Magnetic bar pick-up kit	800334	Coupler	kit - 5" dia.
800082	Nylon brush kit	800336	Coupler	kit - 6" dia.
800084	Hose kit — 5" dia.	800359	Hose ki	1 - 6" dia.
800086	Hose kit – 3" dia.	800993	Bag dus	t cover
800332	Coupler kit - 3" dia.			

MODEL	ENGINE	FUEL CAPACITY UNLEADED GAS	
PUSH:	OL- Driver & Carrage IC	4.0 Q1.	175
ST80VIC	8hp Briggs & Stratton IC	4.0 QI.	1/2
Availe	able equipment:		
800077	Exhaust hose kit	800552 Ba	g support
300334		800993 Ba	g dust cover
300521	5" Intaké hose kit		



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- protective equipment which indicate that the employee has not retained the requisite understanding or skill.
- 4.) The employer shall verify that each affected employee has received and understood the required training through a written certification that contains the name of each employee trained, the date(s) of training and that identifies the subject of the certification.

Eye and Face Protection - Generally - R408.13312

- * Each affected employee shall use appropriate eye or face protection when exposed to eye or face hazards from flying objects or particles, molten metal, liquid chemicals, acids or caustic liquids, chemical gases or vapors, glare injurious radiation, electric flash or a combination of the hazards specified.
- * Each affected employee shall use eye protection that provides side protection when there is a hazard from flying objects. Detachable side protectors (e.g. clip-on or slide-on shields) meeting the pertinent requirements of this rule are acceptable.

Head Protection - Generally - R408.13370

* Each affected employee shall be provided and shall wear head protection when working in areas where a hazard exists from falling or flying objects, or from other harmful contents or exposures, or

ontinued on pg. 17...

- there is a risk of electrical shock, hair entanglement, chemicals or temperature extremes.
- Protective helmets designed to reduce electrical shock hazard shall be worn by each affected employee when near exposed electrical conductors which could contact the head.

Some examples include:
Working below other workers
who are using tools and materials which could fall, working
around or under conveyor belts
which are carrying parts or
materials, working below
machinery or processes which
might cause material or objects
to fall and working on exposed
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continued from pg. 15...

Some examples of occupations for which head protection should be routinely considered are: Carpenters, electricians, linemen, mechanics, plumbers and pipe fitters, sawyers, welders, timber cutting and logging workers, stock handlers and warehouse laborers.

Foot Protection -Generally - R408.13385

Each affected employee shall wear protective footwear when working in areas where there is a danger of foot injuries due to falling and rolling objects, or objects piercing the sole, and where such employee's feet are exposed to electrical hazards.

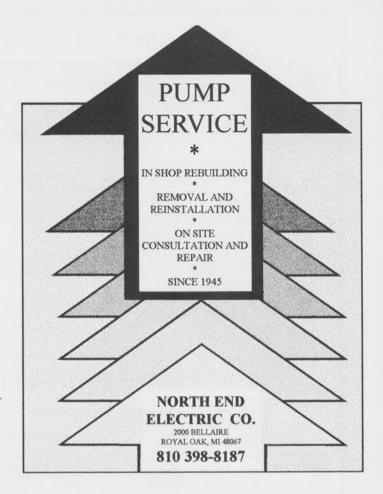
Some occupations for which foot protection should be routinely considered are: Shipping and receiving clerks, stock clerks, carpenters, electricians, machinists, mechanics, plumbers and pipe fitters, structural metal workers, drywall installers, punch and stamping press operators, sawyers, welders, gardeners and grounds-keepers, timber cutting and logging workers, stock handlers and warehouse laborers.

Hand Protection -Generally - R408.13392

Employers shall select and require their employees to use appropriate hand protection when employees' hands are exposed to hazards that may cause any of the following: skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns and harmful temperature extremes.

Employers shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to all of the following: task(s) to be performed, conditions present, duration of use and the hazards and potential hazards identified.

Before purchasing gloves, the employer should request documentation from the manu facturer that the gloves meet the appropriate test standard(s) for the hazard(s) anticipated. A copy of Part 33. Personal Protective Equipment can be obtained by contacting The Department of Labor Standards Division at (517) 322-1845.



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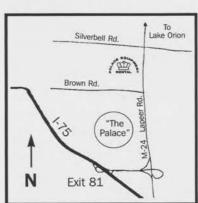
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A Risk Management Approach to Lightning Safety

by Rich Kithil, President American Lightning Protection

Every year many golfers and course employees are caught on America's golf links as thunder rumbles in the distance then grows louder and sharper as storm clouds darken the sky and lightning flashes within the clouds and to Earth. A recent study found that golf is one of the leading activities during which lightning deaths and injuries occur.

With the proliferation of liability lawsuits, there is added pressure for golf course owners and managers to warn and protect customers and employees from lightning's hazards. Most lawsuits from lightning events are based on allegations of negligence to warn and protect.

For example, the widow of a golfer who was killed by a lightning strike at Quail Chase Golf Course in Jefferson County, Kentucky, filed a suit against the course owners, charging negligence due to "failure to install and operate adequate warning systems." In another case, a golf course was found negligent by a jury and held liable for the lightning deaths in an unprotected shelter building. The couple's minor children were awarded damages sufficient to pay for their care and education.

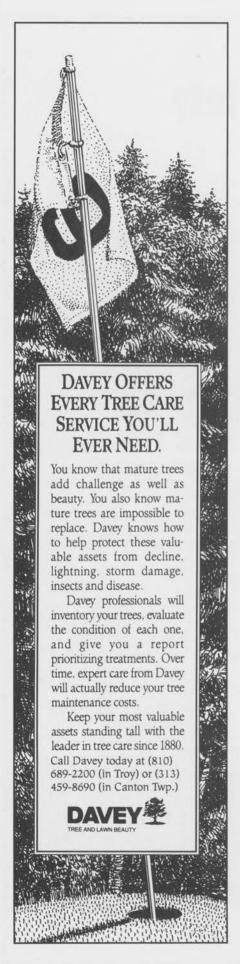
To address these liability issues and to satisfy the "Duty to Warn" considerations, course managers must plan and implement appropriate safety measures. A comprehensive risk management plan against lightning hazards should include the following:

Detection: With the development of reliable lightning detection devices, it is frequently possible to warn of lightning hazards before they occur. These systems should be installed on the course.

Notification: Course-installed alert devices can be used to send an audible notice to customers and

Continued on page 20

Lightning Safety Tips Avoid ☐ Hilltops Open areas Isolated or solitary trees Wire fences Golf carts Electrical and maintenance machines Wet areas Lakes and rivers Power lines Seek Lower elevation areas Dense wooded areas Bushes Protected designated shelters Large metal frame buildings **Enclosed automobiles** with metal tops USGA Rule 6-8 allows players to discontinue play if they believe there is a danger from lightning. Golf officials may suspend play when a lightning hazard is detected.



Continued from page 19

workers of the hazard. Signs and other visual messages should be displayed.

Protection: All golf courses should have a lightningsafe clubhouse and shelters. Shelter buildings on a golf course can become lightning traps unless they have proper design and equipment.

Education: Golfers should be given printed instructions that advise how and where to take shelter during a thunderstorm. Signs that describe lightning safety measures should be prominently displayed in the clubhouse or on the golf cart. CPR training for course employees should be conducted on a regular basis.

Documentation: The golf course's lightning safety plan should be recorded with such information as dates of equipment inspection, employee training and other pertinent details. By acquiring the capability to detect, notify and protect golfers and employees, course management can demonstrate a 'best effort' defense against the lightning hazard. In contrast, failure to implement the capability to detect, notify and protect can provide significant difficulty for the golf course that is being sued from a lightning-related incident. Lightning will continue to be a random event and your facility may or may not be its next target. A comprehensive risk management program is the only way to maximize the safety of your facility against lightning.





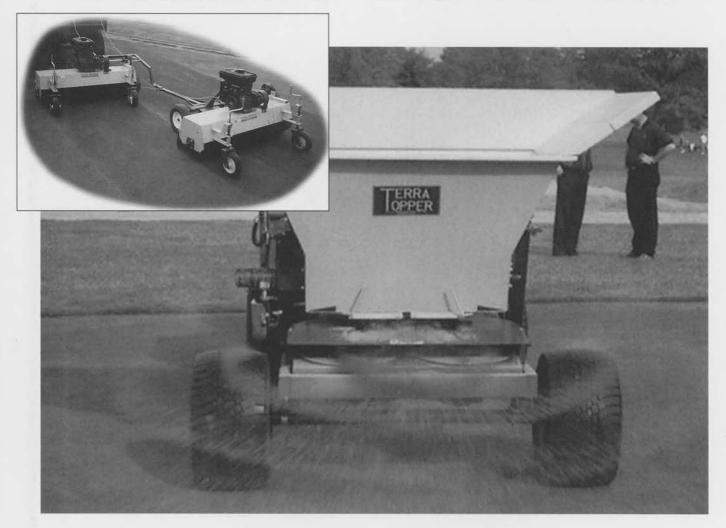
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Around the Course

"When we started this program, we did not have one bluebird here we could identify. Now, we have more than you can count. That's Superintendent Robert Mateja as he was quoted in *The Detroit News* in an article about the Fox Hills Country Club's certification by the Audubon Society of New York State.

Fox Hills is one of three courses in the state and 36 in the country to be certified for its environmental efforts. The two other Michigan courses are the Tournament Players Club of Michigan in Dearborn and the Treetops Sylvan Resort in Gaylord.

The Audubon certification endorses Earth-friendly changes. One big change cited is in water use. According to the society, the water used on one 18-hole course has been cut from 2.5 million gallons a day during peak season to 750,000 gallons a day.

The article cited Jean Mackay, education director for the Audubon Society of New York State. "Getting Michigan's 1.3 million golfers to accept a little scrubby prairie grass on the side of the fairway may be the hardest part," she said. "A lot of times, it's the golfers who are demanding these perfect conditions. The nature of the course is just as important as how fast or how far your ball goes."

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Continued from page 12

"spiked-up" by use of traditional metal spikes. Greens that receive excessive play or are smaller in size are more likely to see the effects of slower ball roll caused by spike marks and are therefore the most likely candidates to experience an increase in green speed with the use of soft spikes.

Two potential benefits of using soft spikes were observed while conducting the experiment. First was the striking visual difference between the soft and metal spike treatments. The metal spiked plots looked literally "chewed up" after ten minutes of walking; in contrast, the soft spiked plots looked healthy and could barely be distinguished from the control plots. Second, we observed a noticeable difference in the "trueness" of ball roll between the soft and metal spiked treatments, especially as ball speed declined. In the soft spike plots, the ball rolled

true, even as the ball slowed; while in the metal spiked plots the ball was more apt to vary in its course, especially as all speed decreased.

This study was conducted during the latter part of October and the beginning of November. If the study had been conducted in the spring or in the middle of the summer when growth patterns are different, the data might vary. Although further studies need to be conducted, we would expect similar data trends to occur.

Trade name and company name of equipment used in this study are included for the benefit of the reader and does not imply any endorsement or preferential treatment of the product by The Ohio State University.



"Michigan and Border Cities. Kate speaking."

"Hello, Kate. It's Pete Miller."

"Hi! How're you doing?"

"Great! Looking forward to getting away and going hunting."

"Things are slowing down then, huh?"

"Yeah. September, October, my favorite time of year."

"I know. My husband loves it, too. Speaking of October...the Annual Meeting's coming up. I hope you're going?"

"Oh, I guess so. What date is it?"

"Tuesday, October 24th."

"It's at Maple Lane, isn't it?"

"Yes, it is. Should be another good meeting. Along with the Clarence Wolfrom Classic being played, nice dinner and, of course, the Annual Elections...well, you should come."

"You think I should, huh?"

"Of course! It's a 'must' meeting. Elections, as usual, are very important. All members should be there...so you know what's going on with your association."

"Okay! Okay! I'll send in my reservation."

"Bring another member with you, too. And if you find you can't make it, send in your absentee ballot."

"Alright, I'll really try."

"Good! I'll see you there."

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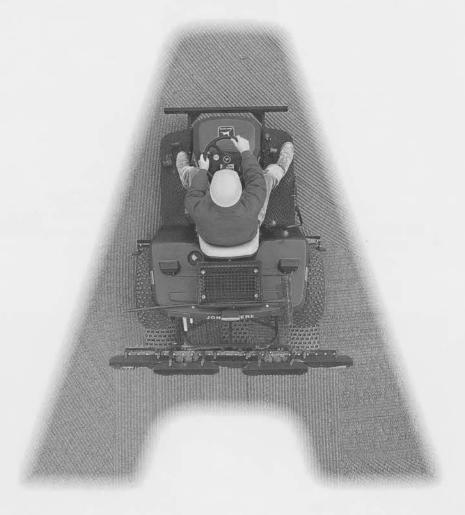
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