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Office Notes

By **BARBARA MIKEL**



We have just concluded the scholarship application process and once again we have lots of good candidates. The Scholarship Committee will begin the review, so stay tuned for their announcements. This brings to mind the Clifford & Myrtle Wagoner Scholarship Tournament scheduled for Claremont Country Club, July 1, 2013. This is a wonderful venue, and I am looking forward to another great event. Mark your calendars, grab your members/guests/friends for a great day of golf and auction items. If you have something you want to donate, please give me a call. Rounds of golf, golf merchandise, services, equipment and course materials are just some of the items auctioned last year. As donations are made, we will post them to the website for review and bidding.

Web and *Thru the Green* use is something which I have been tracking since 2009. Thanks to the Google Analytics and Nxtbook Analytics, we have some good use information. It's good to know you are still reading and using these tools.

Some trivia:

The most frequently used browsers:

Internet Explorer	35.64%
Safari	25.64%
Firefox	19.90%
Chrome	17.23%
Mozilla Compatible Agent, BlackBerry, Android Browser, Blackberry 9560 Opera Mini & Safari (in app)	make up the balance.

Operating Systems:

Windows	64.55%
Macintosh	22.67%
iOS	6.93%
Not Set, BlackBerry, Android and Chrome OS	accounting for the balance.

There are also statistics on monitor resolutions, city and country of origin for visits to the website and as well as information regarding smartphone/tablet use.

Ok, so what you say? Well, all these factors are important for maintaining a functional website. As software changes in the Microsoft/Apple world, so too must the website. Last month there was an issue with Firefox which necessitated the updating of some of the website coding. Thankfully we do have a company interested in keeping us up to date. If you experience something odd or something that hasn't happened previously, please let us know.

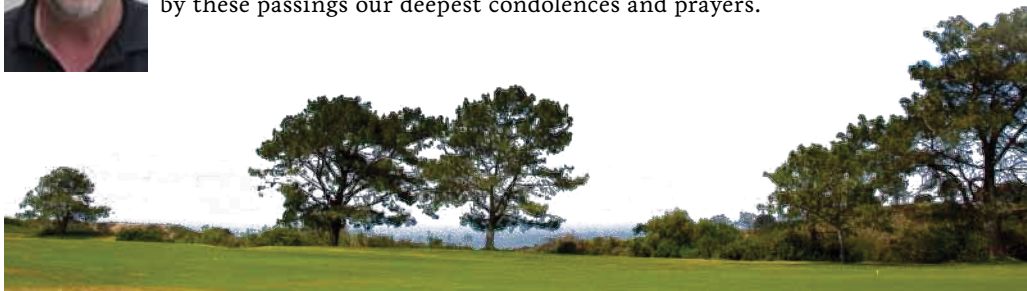
Want to send us something for *Thru the Green*? We love to have articles written by membership. Just submit by the deadline dates below.

July/August Issue	June 11
Sept/Oct Issue	August 13
Nov/Dec Issue	Oct 8
Jan/Feb 2014 Issue	Dec 10



Naumann's Nor Cal News

Sadly we must report the passing of **David Saly, Larry Norman** and **Gurmit Sandhu**, former supt. at Orinda CC. We wish all those affected by these passings our deepest condolences and prayers.



NorCalendar

MAY 20

Superintendents Field Workshop

Tilden Park Golf Course, Berkeley

JULY 1

Clifford And Myrtle Wagoner Scholarship & Research Tournament

Claremont Country Club, Claremont

DECEMBER 6

Holiday Party

Del Monte Golf Course and Monterey Hyatt Regency Hotel

More Details?

Visit www.gcsanc.com/events/next/

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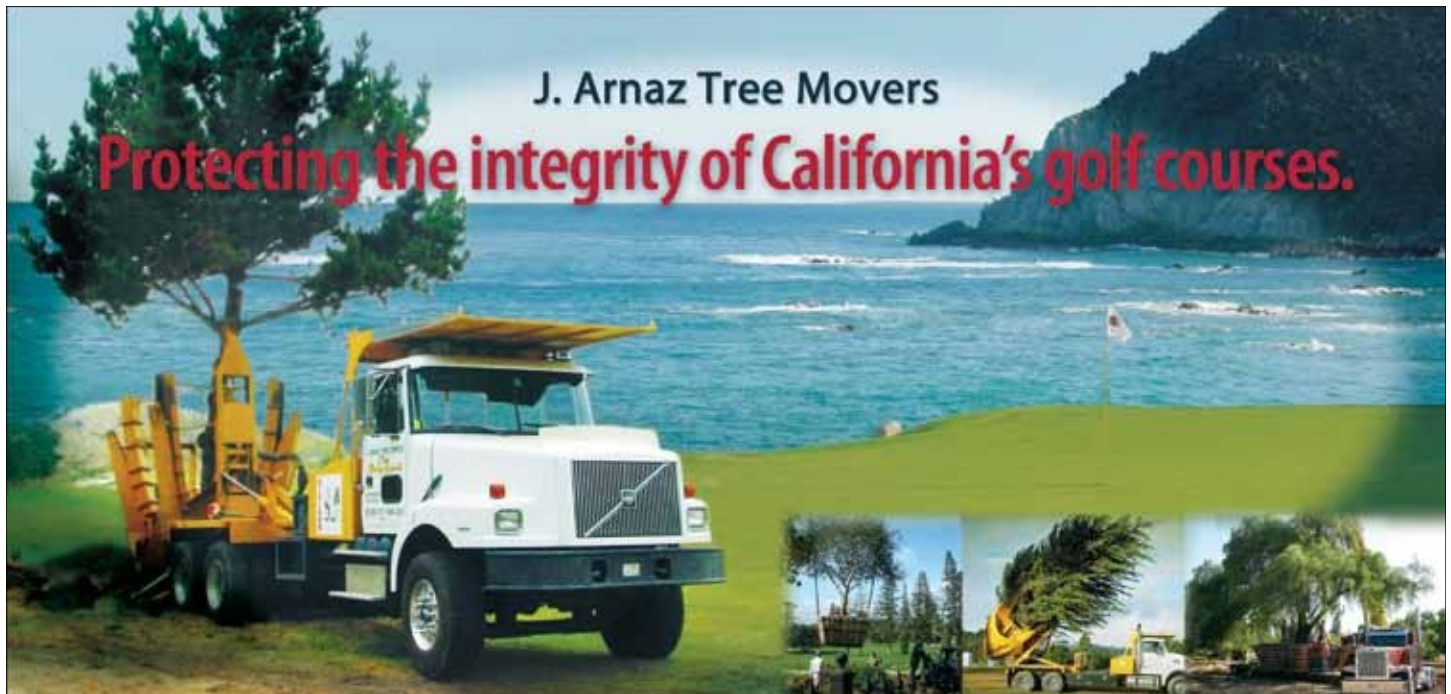
See You There? PRESIDENT'S MESSAGE By JON CHRISTENSEN

Now that aerification is mostly behind us for another few months, maybe we can all find some time to play some golf? If any of you are like me....probably not!!! However, we have some worthwhile events coming up that I would like to encourage you to participate in. The annual Clifford & Myrtle Wagoner Scholarship and Research Tournament has been a huge success over the years, and we anticipate this year to be no different. We have another great venue to visit this year at Claremont Country Club on July 1st. This event is a great way for the Association to raise money for future Golf Course Superintendent's scholarships, scholarships for our sons, daughters, grandkids, and the research that can make our every day jobs easier, and also provides a great opportunity for networking with our peers and vendor sponsors. Speaking of our vendor sponsors, their support of this event has been outstanding through sponsorships and donations for the auction that follows the day of golf. Are you all aware that the GC-SANC website puts all of the items up for "silent auction" on the website also? For those of you that cannot attend, this provides a chance for you to give back to the event as well as score some great deals on some great items. I would like to also ask if anyone has or knows someone that has an item that can be donated for the auction, please contact myself or Barbara at the

office. For those that have taken part in the auction, you know that items have ranged from hand tools, power tools, sporting event tickets, golf, sports memorabilia, fertilizer, chemicals, sand, sod, etc. As you can see, we will take it all! I encourage you to talk to anyone you can, and donate a product for this worthwhile event for all of us.

We also have our annual Field Day event this year at Tilden Park. Wildcat Creek, which passes through Tilden Park Golf Course, sustained major erosion, including a washed-out bridge abutment, during the heavy winter storms of 2005-06. The Federal Emergency management Agency (FEMA) declared a federal disaster in Contra Costa County that winter. The East Bay Regional Parks District thereafter proposed to restore sections of Wildcat Creek passing through Tilden Park Golf Course by creating step pools and planting vegetation along stream edges and slopes, as well as the entire project being monitored during construction and re-vegetation which took place from September to early November 2012. Monitors were required on the project site in order to minimize impact on select species, particularly the federally protected California red-legged frog and Alameda whip snake. This will be a great field day example that will take place on May 20th at Tilden Park.

I hope to see you at these events! Please check the website for further details.



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THE ECONOMIC IMPACT OF GOLF: STATE-BY-STATE

State	Number of Golf Facilities	Direct Economic Output*	Total Economic Output**	Total Jobs***	Total Wage Income***	Year SRI International Study Conducted
Alabama	252	\$808 Million	\$1.5 Billion	21,221	\$459 Million	2010
California	921	\$6.3 Billion	\$13.1 Billion	128,000	\$4.1 Billion	2011
Connecticut	185	\$638 Million	\$1.1 Billion	11,570	\$337 Million	2008
Florida	1,128	\$7.5 Billion	\$13.8 Billion	167,377	\$4.7 Billion	2007
Georgia	401	\$2.4 Billion	\$5.1 Billion	56,922	\$1.5 Billion	2009
Hawaii	83	\$1.4 Billion	\$2.5 Billion	30,187	\$854 Million	2007
Illinois	683	\$2.1 Billion	\$4.8 Billion	50,466	\$1.5 Billion	2007
Indiana	430	\$909.6 Million	\$1.7 Billion	21,000	\$530.7 Million	2008
Iowa	415	\$429 Million	\$770 Million	10,396	\$231 Million	2006
Kentucky	280	\$370 Million	\$710.4 Million	11,000	\$218.7 Million	2009
Louisiana	165	\$446 Million	\$810 Million	11,129	\$275 Million	2006
Maryland	189	\$727.2 Million	\$1.3 Billion	14,700	\$408 Million	2010
Massachusetts	375	\$1.4 Billion	\$2.8 Billion	29,630	\$857 Million	2006
Michigan	865	\$2.2 Billion	\$4.2 Billion	56,977	\$1.4 Billion	2006
Minnesota	508	\$1.2 Billion	\$2.4 Billion	34,653	\$777 Million	2006
Missouri	352	\$888.6 Million	\$1.7 Billion	21,000	\$485.1 Million	2010
New Hampshire	113	\$289.8 Million	\$525.1 Million	6,200	\$151.2 Million	2010
New Jersey	298	\$1.4 Billion	\$2.9 Billion	27,700	\$857.5 Million	2010
New York	818	\$2.9 Billion	\$5.3 Billion	56,594	\$1.6 Billion	2007
North Carolina	558	\$2.6 Billion	\$5.3 Billion	68,667	\$1.7 Billion	2007
Ohio	738	\$2.4 Billion	\$4.8 Billion	68,120	\$1.5 Billion	2006
Oklahoma	213	\$280.5 Million	\$545.6 Million	10,600	\$166 Million	2006
Oregon	190	\$1.2 Billion	\$2.5 Billion	27,168	\$704 Million	2008
Tennessee	297	\$960.5 Million	\$1.9 Billion	22,500	\$564.1 Million	2011
Texas	907	\$3.4 Billion	\$7.4 Billion	98,859	\$2.4 Billion	2006
Virginia	334	\$1.6 Billion	\$3.1 Billion	40,189	\$948 Million	2005
Washington	280	\$1.2 Billion	\$2.5 Billion	29,318	\$796 Million	2007
Wisconsin	499	\$1.2 Billion	\$2.4 Billion	38,431	\$772 Million	2008

* Direct Economic Output is defined as the size of the golf industry cluster (Golf Facility Operations, Golf Course Capital Investments, Golfer Supplies, Tournaments & Associations, Real Estate, Hospitality/Tourism) within the state economy in terms of revenues.

** Total Economic Output is defined as the direct economic output combined with the indirect economic output (includes revenue generated from the purchase of goods and services from other companies by golf course facilities and the companies that provide goods and services to the golf industry) as well as the induced economic output (includes economic impact from employee directly employed by the golf sector who will spend much of their income in the region thereby creating morespending and more jobs in the local economy).

*** Includes full-time employees only.

AN ADDITIONAL FIVE STATES COMMISSIONED THEIR OWN STUDIES:

State	Number of Golf Facilities	Direct Economic Output*	Total Economic Output**	Total Jobs****	Total Wage Income***	Study Conducted By
Arizona	338	\$2.1 Billion	\$3.4 Billion	53,957	\$1.4 Billion	Arizona State University, 2004
Colorado	239	\$560 Million	\$1.7 Billion	10,913	\$177 Million	Colorado State University, 2002
New Mexico	76	\$481 Million	\$985 Million	20,800	\$432 Million	New Mexico State University, 2005
Pennsylvania	699	\$1.1 Billion	\$2.3 Billion	48,900	\$700 Million	National Golf Foundation, 2002
South Carolina	375	\$1.4 Billion	\$2.3 Billion	30,938	\$713 Million	SC Department of Parks, Recreation and Tourism, 2007

**** Includes full-time and part-time employees

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- 3: to restore



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Management of Rapid Blight Disease on Putting Greens in Southern California



Rapid Blight disease affecting annual bluegrass on the practice putting green at Hidden Valley Golf Club, Norco, CA. Symptoms were more severe on this area of the study that received bi-weekly verticutting, sand topdressing, and dragging vs. the area in the background that received topdressing and no dragging. Photo taken 21 Sep 2012.

The Bottom Line:

Rapid blight disease activity was sporadic due in part to distribution of *Poa annua* on the putting green and environmental conditions. Rapid blight was most severe on the area of the green that received more aggressive cultivation practices (light verticutting, sand topdressing, dragging). In contrast, light sand topdressing without dragging incited less disease and thus would be recommended during the summer months on greens with a history of the disease. Pillar G (Insignia) alternated with Fore Rainshield (mancozeb) provided the best overall suppression of rapid blight. Velist (penthiopyrad) appeared to offer the greatest Rapid blight suppression among newer and previously untested fungicides.

Research Report Brought To You By

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turfgrass science

Alea Miehl and Jim Baird

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Iain Sturge

Superintendent
Hidden Valley Golf Club
Norco, CA

Introduction:

Rapid blight, caused by *Labyrinthula terrestris*, is an increasingly serious disease of *Poa trivialis*, *Poa annua*, and perennial ryegrass turf. Disease is usually associated with poor quality irrigation water with elevated sodium chloride, and severity on *Poa annua* putting greens in California typically manifests in late summer as salts accumulate in the turf profile. Furthermore, cultivation practices aimed at improving putting conditions can incite disease activity by compounding summer stress of host species. Few fungicides are effective for control of rapid blight, but include pyraclostrobin (Insignia), trifloxystrobin (Compass), and mancozeb (Fore).

Objectives:

1. Evaluate new and existing fungicides and nutrients for preventative control of Rapid Blight disease on a *Poa*/bentgrass putting green.
2. Evaluate two cultivation strategies for their impact on disease incidence and severity.

Location: Hidden Valley Golf Club
Norco, CA

Site: Practice putting green

Rootzone: Sand

Mowing Height: 0.110-0.125 inches

Fertility: See treatment list

Experimental Design: Randomized Complete Block;
4 replications

Plot Size: 4 ft by 6 ft

Sprayer: Output: 2 gal/1000 ft²

Nozzles: TeeJet 8004VS nozzles

Study Period: 3 July (first chemical treatments)
to 28 Sept. (final rating) 2012

Cultural Practices:

Prior to the study, the normal maintenance regimen on the green included spraying every two weeks with 0.2-0.3 lb N/1000ft², and 0.4-0.6 lbs K/1000ft² and Primo Maxx at the high label rate. These practices were stopped during the study period.

Cultivation Treatments:

One area of the green where chemical treatments were applied received double verticutting, light sand topdressing, and dragging on 17 July 2012 and approximately every 2 weeks thereafter during the study. Chemical treatments were also applied to another area of the same green that received light sand topdressing only every two weeks. The entire green was core aerated and topdressed on 9 July 2012.

Data Collected:

Percent *Poa annua* cover (0-100%) at Day 0; Disease Cover (0-100%); Visual Turf Quality (1-9, 9 = best, 6 = minimally acceptable); Electrical conductivity (dS/m); Digital images (overall + individual plots)

Acknowledgments:

Thanks to BASF, Bayer, Dow AgroSciences, Syngenta, DuPont, Grigg Brothers, Valent, and the California Turfgrass & Landscape Foundation (CTLF) for their support of this research.

Results:

- ✓ Initial disease activity was observed on 3 August, 28 days after initial chemical treatments. However, greatest activity occurred at the end of August through September.
- ✓ There were significant differences in rapid blight activity between the cultivation practices at three rating dates (Table 1). The more aggressive practice of verticutting, topdressing, and dragging incited more disease and resulted in higher salinity on one rating date only (Table 2).
- ✓ The only significant differences in rapid blight suppression among the chemical treatments occurred on 30 August and 28 September (final rating date) (Table 3). Although there was appreciable variation in rapid blight disease activity due to *Poa annua* distribution and environmental conditions during the study, the best disease suppression was achieved with the proven rapid blight fungicides: pyraclostrobin, mancozeb, and trifloxystrobin. Mancozeb applied alone provided among the best rapid blight suppression when applications were made on a routine basis. However, protection was short-lived following the final application in late August. A similar observation was made for the treatment combination of PK Plus, Elicitor, and Kelplex. Of the newer fungicides, Velistra (penthiopyrad) offered among the best and longest disease suppression; however further testing is needed to confirm activity.
- ✓ Our results confirmed that preventative applications of proper fungicides in conjunction with minimally invasive cultivation practices are key components to managing rapid blight on *Poa annua* putting greens in southern California.

Table 1. Effects of cultivation treatments on rapid blight disease severity averaged over chemical treatments. 2012. Norco, CA.

	Rapid Blight Cover (%)	Rapid Blight Cover (%)	Rapid Blight Cover (%)
	8/30/12	9/20/12	9/28/12
Verticut	49.01	67.46	67.15
Non-verticut	36.70	34.26	42.29
LSD ($\alpha = 0.05$)	2.43	4.07	4.13

Table 2. Effects of cultivation treatments on soil electrical conductivity (EC) averaged over chemical treatments. 2012. Norco, CA.

	Soil EC (dS/m) Mean
Verticut	0.546
Non-verticut	0.456
LSD ($\alpha = 0.05$)	0.367



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Management of Rapid Blight Disease on Putting Greens in Southern California (Continued)

Table 3. Effects of chemical treatments on rapid blight disease severity averaged over cultivation treatments. 2012. Norco, CA.

No.	Treatment	Company	Rate Formulation	(oz/1000 ft ²)	Rapid Blight Cover (%) Applications (d)	Rapid Blight Cover (%) 30 Aug 2012	28 Sep 2012
1	Control	--	--	--	--	53.9	51.9
2	PK Plus	Grigg Bros.		6	0, 14, 28, 42, 56	52.4	67.9
3	Elicitor	Grigg Bros.		2	0, 14, 28, 42, 56	44.0	63.9
4	PK Plus Elicitor	Grigg Bros. Grigg Bros.		6 2	0, 14, 28, 42, 56 0, 14, 28, 42, 56	49.5	64.2
5	PK Plus Kelplex	Grigg Bros. Grigg Bros.		6 2	0, 14, 28, 42, 56 0, 14, 28, 42, 56	53.5	68.5
6	PK Plus Elicitor Kelplex	Grigg Bros. Grigg Bros. Grigg Bros.		6 2 2	0, 14, 28, 42, 56 0, 14, 28, 42, 56 0, 14, 28, 42, 56	35.8	58.5
7	N, P, K control	--	--	--	0, 14, 28, 42, 56	52.2	60.6
8	Secure	Syngenta	4 SC	0.5	0, 14, 28, 42, 56	46.5	57.0
9	Secure Daconil Action	Syngenta Syngenta	4 SC SC	0.5 3.0	0, 14, 28, 42, 56 0, 14, 28, 42, 56	40.5	52.8
10	A12946B	Syngenta		0.5	0, 14, 28, 42, 56	43.6	61.0
11	Pillar Fore Rainshield	BASF Dow	G 80 WP	3.0 lbs 8.0	0, 28, 56 14, 42	28.5	26.6
12	Insignia	BASF	2 SC	0.7	0, 21, 42	45.1	39.8
13	Insignia Fore Rainshield	BASF Dow	2 SC 80 WP	0.7 8.0	0, 28, 56 14, 42	32.4	47.1
14	Compass Fore Rainshield	Bayer Dow	50 WG 80 WP	0.25 8.0	0, 14, 28, 42, 56 0, 14, 28, 42, 56	41.9	44.8
15	Fore Rainshield	Dow	80 WP	8.0	0, 14, 28, 42, 56	25.5	81.9
16	Velista	DuPont	50 WDG	0.5	0, 14, 28, 42, 56	41.6	39.4
17	Velista Daconil Ultrex	DuPont Syngenta	50 WDG 82.5 WDG	0.3 3.25	0, 14, 28, 42, 56 0, 14, 28, 42, 56	33.1	51.4
18	Velista Insignia	DuPont BASF	50 WDG 2 SC	0.3 0.5	0, 14, 28, 42, 56 0, 14, 28, 42, 56	36.6	60.5
19	UCR001	Exp.		0.31	0, 14, 28, 42, 56	53.1	45.0
20	0-0-50	--	G	2.0 lbs	14, 28, 42, 56	47.4	51.8
	LSD ($\alpha = 0.06$)					6.1	7.3

Application Dates: A = 3 July; B = 19 July; C = 3 Aug; D = 16 Aug; E = 30 Aug.
N, P, K control provided same amounts of nutrients as contained in trts 2-6.