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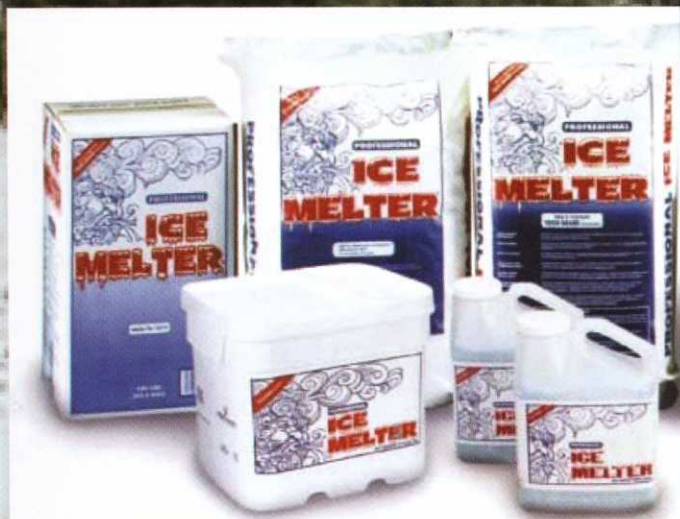
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## CLASSIFIED ADS

### November FOR SALE

2005 Toro 5200-D 2WD Fairway mower. 1700 well cared for hours. ROPS included, baskets available. \$10,000.  
 2000 Toro Workman 3200 HD utility vehicle. 2200 hours, rear PTO. Excellent condition. \$8500.  
 Contact: Fred Taylor  
 Mankato Golf Club  
 507/388-2546

### November FOR SALE

Tow behind 300 gallon sprayer with boom, stainless steel tank, piston pump, foamer. \$1000/ obo  
 Contact: Daniel Hanson  
 St Cloud Country Club  
 320/230-3331

### November FOR SALE

Reel Grinding Special!  
 Schedule your reel sharpening needs with us by 12-31-10 and receive free pick up and delivery! Grinding prices: \$85 (greensmowers and lightweight fairway mowers...22" or less) \$110 (walk-behind greens mowers and larger cutting units...over 22") relief grind additional \$20. call or email to ask for more detail...  
 Contact: Guy W. Leach  
 Spring Valley Golf Course  
 715/928-0405

### October FOR SALE

Toro Trans Pro 100 greens mower trailer. Exc Condition \$550/BO Otterbine Bunker Pumper floating water pump, 8.5 Briggs I/C engine, 2.5" discharge, 280 GPM and up to 45 psi. Good cond. \$800/BO  
 Contact: Chad Braun  
 Prestwick Golf Course  
 651/459-0288

### October FOR SALE

1996 Jacobsen Tri King 1500 hrs, good shape \$1000  
 Calhoun fertilizer spreader Model 450 runs fine \$200  
 1988 Toro 216 complete unit 4625 hrs, \$200  
 Contact: Scott Esterby  
 Oak Ridge Country Club  
 952/938-6900

### October FOR SALE

Brand new Baroness LM56 walkbehind greens mower. Still at the dealer (Yamaha Golf & Utility). I won it in a contest and decided it just won't work for our course. Comes with groomer and grass catcher. \$7000 or best offer.  
 Contact: Dean Rollie  
 Sandstone Are Golf Course  
 651/357-5556

### September FOR SALE

Parts for a 1991 Cushman GA 60 Aerofier. Misc parts, 3 pivot arms, 2 pivot shafts, 4 bearings, 1 cross shaft, tine gearbox, other misc stuff. \$25 for the whole box of stuff.  
 Toro Network 8000 Irrigation controllers - 32 station - Qty 8 - Used - Work Fine - \$300 each.  
 Contact: Tom Fischer  
 Edinburg USA  
 763/315-8575

### September FOR SALE

3 Great condition John Deere 220A walk behind greens mowers with BRAND NEW reel stock & bedknives. Mowers all serviced and ready to be used (\$1400/each or \$3400 for all 3). Pictures are available upon request.  
 Contact: Matt Mears  
 Red Wing Golf Club  
 651/388-9524

### August WANTED

Jacobsen 3 pt PTO debris blower. I would prefer working condition. I'm looking for a backup to our current backup machine.  
 Contact: Jason Swanson  
 Hidden Greens  
 651/295-9771

### July FOR SALE

1992 Toro Hydroject 3000 water injection machine for parts or repair (bad engine) \$900 obo  
 Smithco V-star slicer verticutter dethatcher, \$1995 obo  
 1996 Toro Greensmaster 3100 for parts or repair (bad engine) \$1500  
 Contact: Guy Leach  
 Spring Valley Golf  
 715-928-0405

### July WANTED

Jacobson Turfcut or equivalent. 60" deck or so, good to fair shape. Looking to spend \$1 to \$4000.  
 Contact: Daniel Baert  
 Pierz Golf Course  
 320-630-5084



www.MGCSA.ORG

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*Season's Greetings*



# PEER-TO-PEER: BETTER TURF THROUGH NETWORKING

*MGCSA members were asked:*

*What was your biggest surprise this summer? ...what worked beyond your expectations?*

Biggest surprise of this summer at **Stillwater CC**? Does this last snowstorm count? Maybe the the extra 3 weeks of spring when we opened the 3rd week of March? The relentless disease stress? This whole season has been one big surprise after another. What worked beyond my expectations this year at Stillwater Country Club had to be Civitas. We used it every three weeks on our fairways and had excellent disease control and beautiful turf. Also, this was one of the few years I haven't seen pythium on our fairways. Civitas does not control pythium, but maybe the healthy turf helped control the disease? This could also be considered one of my biggest surprises?!

- Marlin Murphy  
Stillwater CC

\* \* \* \*

At **Oneida**, this spring I very hesitantly decided to change my normal greens aeration process, only because they came out of the winter so well and the previous year's process had taken so long to heal. I used the small needle tines instead of my normal 0.400" hollow tine and we made it through the wettest summer on record without any issues at all. For the first time since I have been keeping track, the HOC on our greens remained below 0.100" for 77 consecutive days. Not that aeration is the only factor, but I figured it was a bigger factor than it turned out to be. I will see if it going to have an accumulative effect as I do the same process again next spring. This was definitely my biggest surprise of the summer.

- Mark Storby  
Oneida Golf and Country Club

\* \* \* \*

At **Bully Pulpit**, it was the lack of localized dry spot, and the emergence of new pests on the golf course even with warmer than average temps. Over the years here, we've added a few tools to the tool box. Using an injection pump coupled with the constant release of penetrants has really increased the efficiency of our water window. We weren't quite as hot as years past, but still hot enough to drag hoses

most days of the week to cool greens in the afternoon. The increased frequency of needle tining our greens coupled with the improved infiltration of water and nutrients kept our greens top notch until the end of the season. I now keep a standard subsurface summer solid tine aeration practice in our program, not just at the top 1" of the surface. Even our fairways and roughs stayed wetter, a phenomenon I relate to our injection system as well. I feel as many do in the humid Upper Midwest summer did, my philosophy of leaner plays better bit me a some as we had a larger than normal outbreak of low N diseases such as redthread, dollar spot, and Red leaf spot. Putting surfaces spoon fed with Phosphite based liquids came through unscathed, but the approaches, tees, and fairways got hit pretty hard. Luckily, spot feeding with quick release fertilizers masked that and we still put the course to bed healthy. I will also say I'd endorse Instrata for snowmold and disregard the use of Civitas at all during the season from experiences with long deep snow winters and decreased green speed while using even trace amounts of Civitas.

- Kyle Fick  
Bully Pulpit GC

\* \* \* \*

A nice surprise at **Somerset** was the product Acelepryn. We applied it for the Japanese Beetle (grub) and got excellent control for Cutworms too, it was quite incredible. I had a hard time getting regulation on the greens with Legacy alone, I needed to spike it with Primo. I underestimated the humidity and therefore the pythium on fairways. I didn't inject our Linden trees soon enough for the feeding Japanese Beetle but spraying the beetles with Sevin sure worked. And finally, I sure like the looks of ferrous sulfate on the fairways.

- James Bade  
Somerset Country Club

\* \* \* \*

My biggest surprise of the past year was the intense Dollar Spot pressure we experienced at **The Jewel in Lake City**.

Granted, it was a very moist year in SE Minnesota and leaf wetness time was a huge factor certainly, but I now have a greater appreciation and fear of what dollar spot can do – and in a short period of time when the conditions are favorable.

- Doug Mahal CGCS,  
The Jewel in Lake City



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# Minnesota DOA Releases Bioagents Against Gypsy Moth and Emerald Ash Borer

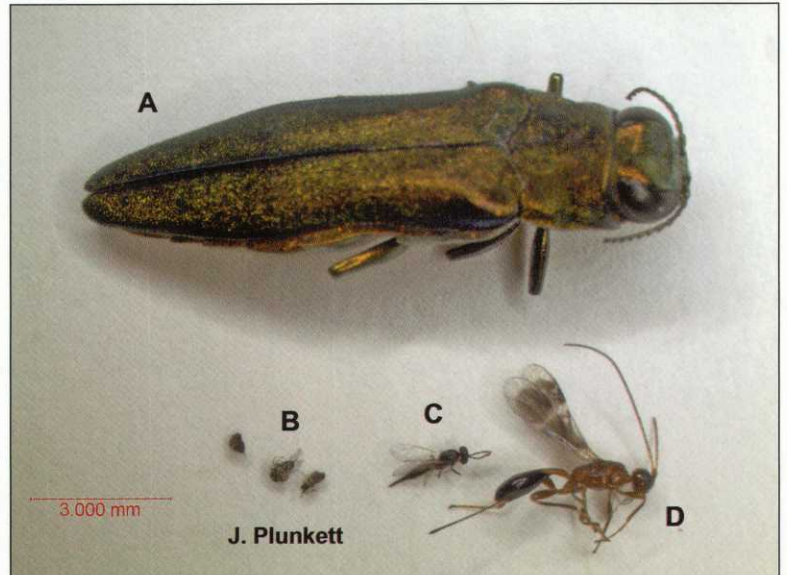
By MONIKA CHANDLER

Biological Control Coordinator, Minnesota Department of Agriculture

Gypsy moth (GM), *Lymantria dispar*, and emerald ash borer (EAB), *Agrilus planipennis*, arrived in North America from Europe and Asia respectively. Without their natural predators, parasites and pathogens in their North American home, GM and EAB populations have reached outbreak levels destroying millions of forest trees resulting in severe environmental and economic damage. GM caterpillars feed on the leaves of more than 300 host species. Repeated defoliation events can result in tree and shrub mortality. In contrast, EAB larvae feed under ash (*Fraxinus* sp.) bark disrupting the flow of nutrients and water. Tree mortality occurs when larval densities exceed the host tolerance threshold. A study in Michigan showed that tree mortality is 99% within six years of initial EAB infestation. The estimated loss of over a billion trees to these pests would be catastrophic. Biological control has been shown to be an effective tool against some invasive species such as leafy spurge, spotted knapweed and purple loosestrife. It is possible that reuniting GM and EAB with their natural enemies in Minnesota will reduce GM and EAB populations.

## Gypsy Moth Biological Control

Northeastern Minnesota has widespread low-level populations and thus far, prescribed treatments have all been successful. However, male moth trap catches indicate increasing numbers of GM. A multi-agency decision was made to implement biocontrol with the fungal pathogen *Entomophaga maimaiga*, which is very specific to GM caterpillars. The pathogen was released this summer at sites in Hovland, Grand Marais, Finland, Ely, Two Harbors and Duluth. Pre- and post-



Pictured are the adult Emerald Ash Borer beetles, *Agrilus planipennis* (A), and the parasitoids that control it in China, including the egg parasitoid *Oobius agrili* (B), and the larval parasitoids, *Tetreriastichus planipennis* (C) and *Spathius agrili* (D)

release monitoring of these sites will be conducted to determine pathogen establishment. Biocontrol will be one management tool integrated with other treatments such as the biopesticide Btk and mating disruption. As GM populations increase and treatments become less effective, the goal is that *E. maimaiga* will be established and consequently lessen the economic and environmental impact from GM outbreaks. Other states have successfully established *E. maimaiga* in areas with newly established GM populations and maintained populations below outbreak levels.

## Emerald Ash Borer Biological Control

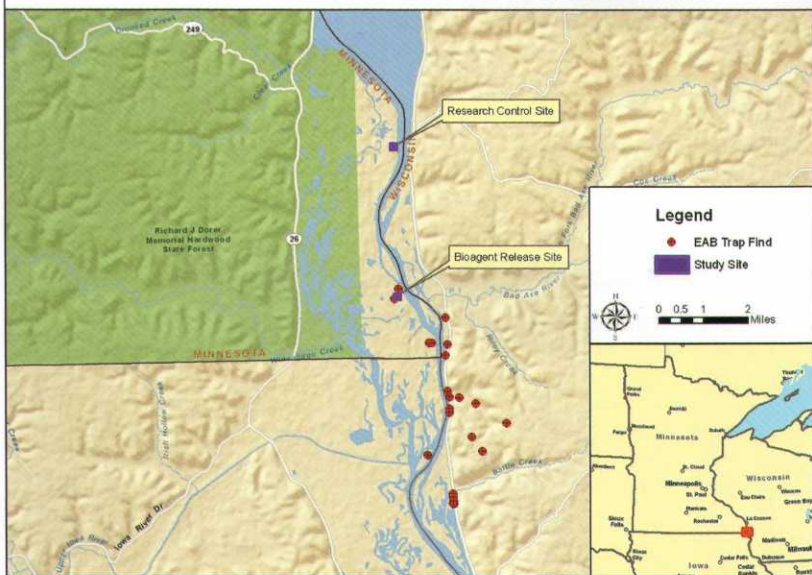
The Minnesota Department of Agriculture (MDA) and partners conducted the state's first release of biological control insects against EAB in mid-September. Partners include the U.S. Department of Agriculture's Animal and Plant Health Inspection Service (APHIS), U.S. Fish and Wildlife Service, the U.S. Army Corps of Engineers and the Minnesota Department of Natural Resources. The release site is an island in the Upper Mississippi River Refuge in Houston County. The site will be monitored and compared to a research control site (no bioagents released) for at least five years to determine bioagent establishment and efficacy. We hope that by releasing the parasitoids now, when EAB populations are low, they will move with EAB as it spreads. Biological control

(Continued on Page 28)



Dead Gypsy Moth caterpillars.

## Emerald Ash Borer Biocontrol in Minnesota



Cooler: Emerald Ash Borer Bioagents

## Bioagents-

(Continued from Page 27)

is the only option for managing EAB on a forest scale. EAB treatments such as insecticides and tree removal are options for urban areas or for treating individual trees, but are neither cost-effective nor practicable on a forest landscape level.

Three species of tiny parasitoid wasps are approved for release. These species were developed by APHIS and were tested extensively to ensure that they will not have a negative impact on other species or the environment. They will not sting humans. APHIS rears these bioagents at a specialized facility in Michigan. Two species kill EAB larvae under ash bark. *Tetrastichus pl-nipennisi* adults find and insert their eggs into EAB larvae.

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**"The strategy is to prevent GM and EAB spread and utilize biological control in infested areas."**

*Spathius agrili* behaves similarly except that the wasp eggs and developing wasps are attached to the outside of the EAB larvae. The developing wasps feed on and eventually kill the EAB larvae. Egg parasitoid, *Oobius agrili*, adults insert their eggs into EAB eggs on ash bark. The developing wasps feed on and destroy the eggs. We released the two larval parasitoids. These parasitoids prefer mature EAB larvae (3rd and 4th instar) so our timing was in sync with EAB development. We plan to release the egg parasitoid next summer.

### *Integrating Biological Control With Other Management Activities*

Biological control is one part of MDA's GM and EAB programs. In addition, we work to prevent the spread of these pests by regulating the movement of targeted wood products such as firewood (potential vector), training First Detectors to identify infestations in early stages, and educating communities and the public about GM and EAB. We set and enforce the quarantine in infested counties and search for new infestations. The strategy is to prevent GM and EAB spread and utilize biological control in infested areas.





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## Seasonal Reflections

By JACK MacKENZIE, CGCS  
North Oaks Golf Club  
Editor

Satiated after consuming one last sliver of left over turkey potpie, the couch beckons me. Outside the sound of ice forming pressure ridges on Lake Sylvan, expanding and contracting, sends a twang through the late afternoon air; cold, snowy, the golf season has come to a close.

Sadie, finally tired of pulling Nuggets ears, has curled up at my feet and is busy removing the eyes from her 'unstuffed' fake fox. Thankfully, the squeaky has long since been punctured. Now I can reflect upon the last twelve months in peace.

**December 2009 was a mixed month.** The course put to bed on time and a solid snow cover eased any concerns I may have had. Tyson, the dog whom I didn't want yet grew to love, had his first of many seizures. A ridged stretch, screaming groans and loss of dignity was followed by meds to limit his malady. After two fun Santa gigs at private clubs I visited my former wife's niece Carly who had recovered from a drowning accident only to suffer a heart attack. Not even in her teens she receives help 24/7. She excelled in watercolor, a true artist. My kids are home from school. Oh how I love them. Tyler a Senior and Madeline a sophomore; hearing them tell tales of college is the best gift of the year. Healthy, happy.

**No 'Big Show' for me in 2010.** In fact the economy has contracted to the point where "family hold back" isn't just a phrase from the seventies. The proverbial package is shrinking across

the country, either through salary cutbacks and furloughs or just the invisible inflation denied so strongly by our Nation's economists. Do they even buy meat for their own tables? Tree trimming on the course goes well. No injuries, good weather and plenty of time to be grateful that I have a job and love what I do.

**My father isn't doing well in February.** At 82 years young his back, injured hitting golf balls last fall, has limited him to his recliner. My heart aches as he struggles to maintain some resemblance of his former self. He declines. Surgery to fuse several of his vertebrae is scheduled. On the table, sedated, the doctors pull back, his blood pressure so low that going under the knife isn't an option. More tests, four days tripped out on muscle melting medications, my father waits to be discharged from his multi-functional, heated, vibrating, and reticulating bed. TV speakers in the hand rails no less. Back home and one week later he is a living miracle. He has no back pain, walks like a champ and enjoys his ice-cream once again. Kim and I take our kids to Lutsen. Fun, Fun, Fun!!! Dog sledding, spaing, skiing. Joyous family time.

**March brings a transition among my staff.** Jeff, my Assistant for ten years, departs for Arizona, we wish him well. Fresh from Rutgers, Justin takes up residence across the 12' by 12' office from me. Not much of a maple run! Damn, only about a gallon. Rapid warm weather ushers in the earliest opening on record; the 28th!

**Not a pleasant April Fools day.** With a very heavy heart I held Tyson close as he was put down. None of the medications really did much. Either he was looped from the dope or convulsing from his epilepsy. Nugget watched as Kim and I buried him down by the woodpile he used to explore. Hunting squirrels I imagine. We even planted a tree on his grave. Damn, it hurt to lose that dog. The course came through winter in mint condition. Really! It is picture perfect and the season starts with a bang. Madeline, my daughter, brings a very nice young man home from college for Easter. HmMMM

**May Day.** I always think of my Mom in early May. Gone for six years, she loved the change of seasons as much as I do. No green aerification this spring too cause undue player consternation; instead a new program of more frequent sand topdressings and regular cultivation with the Planetaire aerifier. I really, really dig this machine. Sadly, it will be the last delivery for a while from Tom, my orange iron dealer. Notification of a terminal lung condition has forced him from our ranks as he gets in line for a transplant. What the heck...terminal...transplant...life can be cruel. Prayers are in order. Tyler finished college. Degreed in economics and business he has charted his course back to school next fall to pursue his dream, "to be a superintendent at a tournament course." Yes, I am a little proud! And glad to be done with one four-year investment if you know what I mean.

**The ranks of my troop overflow!** Finally June arrives and my gang is as busy as a hive of bees getting caught up to my player's seasonal expectations. Mow, mow Mondays are in effect! Member play is up and the course is awesome. Civitas looks good, with a slight modification of Harmonizer, we cut back our fertilizer to save some cash and the first zebra mussels of the year begin to plug our irrigation heads! Acid injections keep them in check, but we still suck a few through our intakes. Zebras are a real pain in the butt!

**Fireworks with my gang at home.** Always a blast and continued huge event with their friends, family and lots of aerial displays! My new first is awesome, our team is operating as a well-oiled greensaire and the weather has provided for the best conditioning opportunities I can recall. Gotta love a nice summer. Late in the month I spotted my first mass of Jap beetles. Having never really watched a live sex orgy I was intrigued! Pretty crazy! Green speeds smooth 10.5 to 11 all the time...cool, real cool.

**August. Summer arrived.** If you grow Poa you knew that summer had tossed a hand grenade into your ho-hum fun season. It snuck up on me. Day temps were not too high, but the

(Continued on Page 31)

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