
From: K-State turf information [K-STATE_TURF@LISTSERV.KSU.EDU] on behalf of Megan Kennelly [kennelly@K-STATE.EDU]
Sent: Thursday, October 01, 2009 6:07 PM
To: K-STATE_TURF@LISTSERV.KSU.EDU
Subject: [K-STATE_TURF] K-State turf: whoops, this time with the message
Attachments: Oct_2_turfnews.pdf

Not sure how I hit the send button... sorry...

Attached is some information about a dollar spot study and a list of upcoming meetings for pesticide license credits.

From last time

1) The celebrity guest lawn last week was... Cliff and Christy Dipman. They are my neighbors down the street. I can vouch that Christy does the mowing, but apparently Cliff gets the task of overseeding.

And, 2) "What happens when 3 plant pathologists, 3 foresters, and an entomologist drive 900 miles together across the high plains in a Suburban in 2.5 days?"

I had nothing in particular in mind, but I got some answers from a few people:

They...come up with a new disorder of trees called Pathodendroentomo-idis.

Hopefully another thriller sequel was coined to help out the local pesticide dealers. Return of the EAB, or Jap beattles to take over the world, or Oak wilt spurrs dust bowl II?

Seven cases of "Wildcat Wilt"... and a carbon footprint the size of tuttle puddle.

Roadside stands run out of beer?

K-State Turf, Oct 1 2009

* Another dollar spot trial *

A couple of weeks ago I sent out the results from one of our dollar spot trials. Today I'll summarize a second one. Grad student Cole Thompson did the actual spray applications in both—thanks Cole!

The study was conducted in 'A4' creeping bentgrass on a putting green at the Rocky Ford Turf Research Center. Applications were made at 14-day intervals beginning 28 May with the final application on 20 August. Fungicides were applied with a CO₂-powered boom sprayer equipped with two XR Tee Jet 8004VS nozzles at 30 psi in water equivalent to 2.0 gal/1000 ft². Plots were 4 ft × 10 ft and there were four replications of each treatment. Plots were rated by visually estimating the percentage of each plot affected by dollar spot or brown patch symptoms.

Dollar spot was present on several rating dates. All materials reduced dollar spot to zero except for a trace amount in the Reserve 2.8 fl oz treatment on 17 Jul and 12 Aug. Brown patch symptoms were visible on only one rating date, 17 July, at low levels, and all fungicides reduced disease to zero.

Treatment and rate/1000 ft ² *	Spray interval (days)	Dollar Spot Disease Severity**				Brown Patch Severity**
		19 Jun	17 Jul	12 Aug	27 Aug	17 Jul
Untreated control.....	--	5.5	4.8	7.8	8.8	5.8
Triton Flo 0.5 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Triton Flo 0.75 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Triton Flo 1.0 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Banner Maxx 2.0 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Reserve 2.8 fl oz.....	14	0.0	0.3	0.25	0.0	0.0
Reserve 3.2 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Reserve 3.6 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Reserve 4.5 fl oz.....	14	0.0	0.0	0.0	0.0	0.0
Concert 5.0 fl oz.....	14	0.0	0.0	0.0	0.0	0.0

* Application dates were 28 May, 10 and 25 Jun, 7 and 21 Jul, and 5 and 20 Aug .

** Values are means of four replicates, based on visually estimating the % of each plot with symptoms.

A slight blue-green color was visible in the Banner Maxx (propiconazole) and Concert (propiconazole + chlorothalonil) plots compared to the other treatments on most rating dates. Triton Flo contains triticonazole, and Reserve contains triticonazole + chlorothalonil. Propiconazole and triticonazole are both in the same fungicide class. That class is sometimes called DMI (de-methylation inhibitors) or SI (sterol inhibitors). On the labels, you might see a box that says "FRAC Code 3" for both. FRAC = fungicide resistance action committee.

DMI's are known to have growth regulating effects—they interfere with the production of the plant hormone gibberellin. Some of the effects can include a deeper green color, and the turf can also turn more of a blue green to the point of being undesirable, or an off-color browning that is definitely

undesirable. In addition, the leaf blades can become wider. Effects are worse under hot, stressful conditions.

In our trial in 2009, we saw a bit of the blue-green color in the plots with propiconazole compared to the ones with triticonazole, but it not get to an undesirable state. The relatively cool summer weather may have been a factor--the only big heat we had was in late June. So, lower stress may have prevented more serious effects.



The two outlined plots both were treated with propiconazole-containing products. The photo below is the same, just without the plots outlined to make it easier to see. The slightly blue color is visible.



Same as above, minus the plot markers

*** Upcoming pesticide recertification training***

I recently received my envelope from KDA with information about renewing my pesticide applicator license. I'm sure many of you did, too.

Are you looking for training and credits in category 3A or 3B?

There are several opportunities coming up. I'm going to paste here some information I just received (since I'm a speaker at some of them). The full booklets are being sent to print, and those will have all the registration information, directions, etc. All certified applicators should receive one.

Our brand new Pesticide Safety & IPM Coordinator is Frannie Miller. Frannie has been on the K-State team for a number of years as an agricultural and horticultural specialist in Rice County. We are excited to have her in this new role.

This is just a “heads up” so you can mark your calendars if you plan to attend. Make sure you check the final, printed copy that you’ll receive in the mail in case there are last-minute changes.

[In addition to the meetings in Hays and Manhattan, there will be opportunities to earn credit at the Kansas Turf Conference (December 8-10) in Topeka. More info will be sent later.]

Here’s the tentative CPAT schedule:

Hays, November 10, 2009

**Location: Fort Hays State University, Memorial Union
600 Park Street, 785-628-5305**

2, 3A, 3C Session (10:00 a.m.-5:00 p.m.) / 3B Session (8:00 a.m.-12:00 p.m.)

Credit Hour Totals: 6 hours – Category 2, 3A, 3C

5 hours – Category 3B

1 Core Hour – 5:00-6:00 p.m.

7:30 Registration

8:00 Management of Insects & Mites on Ornamentals, Raymond Cloyd, Entomology, Kansas State University, Manhattan, KS [1 Credit hour, 2, 3A, 3C]

9:00 Ornamental Diseases of Trees, Jim Strine, District Forester, Kansas Forest Service, Hays, KS [1 Credit hour, 2, 3A, 3C]

10:00 Emerging Tree Health Issues, Charlie Barden, Horticulture, Kansas State University, Manhattan, KS [1 Credit hour, 2, 3A, 3C]

10:50 BREAK

11:00 Equipment and Calibration for Turf, Tree, and Ornamental Pests, Bob Wolf, Biological and Agricultural Engineering, Kansas State University Manhattan, KS [1 Credit hour, 2, 3A, 3B, 3C]

12:00 LUNCH/ADJOURN

1:00 Invasives, Jeff Vogel, Kansas State Department of Agriculture, Plant Protection and Weed Control, Topeka, KS [1 Credit hour, 2, 3A, 3B, 3C]

1:55 Wildlife Management in Turf and Ornamentals, Charlie Lee, Animal Science, Kansas State University, Manhattan, KS [1 Credit hour, 2, 3A, 3B, 3C]

2:45 BREAK

3:00 Diseases of Turf, Megan Kennelly, Plant Pathology, Kansas State University, Manhattan, KS [1.0 Credit hour, 3B]

4:00 Insect Pests Associated with Kansas Turf, Bob Bauernfeind, Entomology, Kansas State University, Manhattan, KS [1 Credit hour, 3B]

5:00 CORE HOUR, KDA Pesticide Program, Kansas Department of Agriculture, Pesticide and Fertilizer Program, Topeka, KS [1 Core hour]

6:00 ADJOURN

Manhattan, KS. November 10, 2009

Location: Clarion Inn, 530 Richards Drive, 785-539-5311

2, 3A, 3C Session (10:00 a.m.-5:00 p.m.) / 3B Session (8:00 a.m.-12:00 p.m.)

Credit Hour Totals: 6 hours – Category 2, 3A, 3C

5 hours – Category 3B

1 Core Hour – 5:00-6:00 p.m.

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