

Message

From: Scott Herndon [sherndon@americansugarbeet.org]
Sent: 5/18/2017 2:47:03 PM
To: Beck, Nancy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=168ecb5184ac44de95a913297f353745-Beck, Nancy]
CC: Graham, Amy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=26722dfde5b34925b0ad9a8dd4aff308-Graham, Amy]; Palich, Christian [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=330ad62e158d43af93fcbbece930d21a-Palich, Chr]; Bennett, Tate [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1fa92542f7ca4d01973b18b2f11b9141-Bennett, El]; Cassie Bladow [Cassie.Bladow@beetsugar.org]
Subject: FW: Fungicides - potentially for use in sugarbeets
Attachments: 2017 CLS on sugarbeet situation in USA.pdf; 2017 Molecular and experimental evidence of multi-resistance of Cercospora beticola field populations to MBC DMI and QoI fungicides.pdf

Dr. Beck,

I am forwarding this email from Dr. Kahn to Andrea Conrath in case is helpful.

Thanks again for your attention to this issue!

Scott

Scott Herndon

Director of Biotechnology and Regulatory Affairs
American Sugarbeet Growers Association
1155 15th Street NW #1100
Washington, DC 20005
202-595-0786

From: Khan, Mohamed [mailto:mohamed.khan@ndsu.edu]
Sent: Thursday, May 18, 2017 10:19 AM
To: 'Conrath, Andrea B' <Conrath.Andrea@epa.gov>
Cc: Scott Herndon <sherndon@americansugarbeet.org>; 'dmaatz@rrvsga.com' <dmaatz@rrvsga.com>; 'Sunseri, Matthew (MDA)' <matthew.sunseri@state.mn.us>; 'jdsauter@nd.gov' <jdsauter@nd.gov>; 'ray.vandriessche@michigansugar.com' <IMCEAINVALID-ray+2Evandriessche+40michigansugar+2Ecom@namprd08.prod.outlook.com>; 'Pratt, David' <David.Pratt@Michigansugar.com>; 'verhougstraeteb@michigan.gov' <verhougstraeteb@michigan.gov>; 'Tyler Grove' <TGrove@crystalsugar.com>
Subject: RE: Fungicides - potentially for use in sugarbeets

Hello Andrea:

I have put together a few pictures on slides/comments which I hope will make it easy to understand why I do not recommend using several products for controlling CLS although they are labeled for use on sugarbeet.

I have continued checking with colleagues worldwide who are working with sugarbeet and unfortunately there is no other new chemistry that is effective against CLS, thus our request for chlorothalonil. I am also attaching a paper which demonstrates that *C. beticola* has developed resistance not only to QoI fungicides, but also to the benzimidazoles and DMI (triazoles) fungicides. It should be noted that in 2016, 14.4% of our isolates tested were resistant to TPTH + a DMI + Topsin + Headline and 24.4% of our isolates tested were resistant to triazoles (tetraconazole,

difenoconazole+propiconazole, prothioconazole) (Secor et al. 2017. Sensitivity of Cercospora beticola to foliar fungicides in 2016. 2016 Sugarbeet Research and Extension Reports. 47:154-162). We are trying to manage fungicide resistance so that we can have the triazoles as a major tool for the future and to use other MOAs to target and significantly reduce the QoI resistant *C. beticola* population so that we can make the QoI fungicides effective again as we did for TPTH in the 2000s.

Once again, thanks for helping us in the past and I hope help will be forthcoming again before it is too late for the economic survival of the sugarbeet industry.

Regards,

Mohamed.

Mohamed F. R. Khan, Ph.D
Professor & Extension Sugarbeet Specialist
Plant Pathology Department
**NORTH DAKOTA STATE UNIVERSITY AND
UNIVERSITY OF MINNESOTA**

Walster Hall, Room 227
Dept. 7160, PO Box 6050
Fargo ND 58108-6050
phone: 701-231-8596
mobile phone:
fax: 701-231-6186
mohamed.khan@ndsu.edu
www.ndsu.edu



From: Conrath, Andrea B [<mailto:Conrath.Andrea@epa.gov>]
Sent: Tuesday, May 16, 2017 4:06 PM
To: Matthew Sunseri (matthew.sunseri@state.mn.us) <matthew.sunseri@state.mn.us>; Brian Verhougstraete <verhougstraeteb@michigan.gov>; Sauter, Jerry D. <jdsauter@nd.gov>
Cc: Khan, Mohamed <mohamed.khan@ndsu.edu>; Johnson, Marion <Johnson.Marion@epa.gov>; Maignan, Tawanda <Maignan.Tawanda@epa.gov>
Subject: Fungicides - potentially for use in sugarbeets
Importance: High

Hello all –

Thank you for making time to discuss the exemption request with us today on such short notice. We will be sharing the evaluation from our Biological and Economic Analysis Division (BEAD) when it is finalized, probably next week. This should help clarify the areas of question with respect to meeting the criteria mandated to determine whether an emergency exemption may be warranted.

In the meantime, I wanted to share with you a short list of fungicides that our pathologist identified as potentially being options to explore for Cercospora management in sugarbeets. Please share with the other researcher if appropriate, since I didn't catch their name on our phone call.

Research from NY for Cercospora leaf spot on table beets

(<http://www.hort.cornell.edu/expo/proceedings/2016/ProcessingVegetables.Diversity%20and%20fungal%20resistance%20in%20a%20Cercospora%20beticola%20population%20on%20table%20beet%20in%20NY.Vaghefi.pdf>) looking for possible treatments (not necessarily registered). They had good results in trials with a few products that were tested:

1. cyprodinil + difenoconazole (pre-mix product, difenoconazole is already labeled for sugar beet),
2. difenoconazole + benzovindiflupyr (a Group 7 fungicide) [sugar beet currently has a pre-mix Group 7, fluxapyroxad + Group 11 pyraclostrobin, which has resistance),
3. fluazinam

Mancozeb provided good results as well (although lack of efficacy is claimed for CLS in sugarbeet).

Regards,

Andrea



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