



Ag Notes



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New Reference Card & Recommendations Take Aim at Rhizoctonia

2016 ACSC RHIZOCTONIA MANAGEMENT OPTIONS			
American Crystal Sugar Company	Priaxor [®] Xenium Brand Fungicide	Quadris [®]	Quadris [®]
	POST	POST	POST
METHOD	BAND/BROADCAST	BAND (7-11")	BROADCAST
TIMING	4 to 5 weeks after planting	4 to 5 weeks after planting	4 to 5 weeks after planting
RATE	6.7oz/Acre	10 oz/Acre	15 oz/Acre
TANK-MIXES	Glyphosate w/ surfactant	Glyphosate w/ surfactant	Glyphosate w/ surfactant
WATER VOLUME	10-15 gal/acre	10-20 gal/acre	10-20 gal/acre
NOTES	<ul style="list-style-type: none"> Do not mix with conventional herbicides/insecticides Apply Priaxor at midpoint between micro-rates Banded applications are most effective, do not reduce rate Additional surfactant along w/ glyphosate will <u>not</u> increase risk of injury Do not add deposition aids or any oil based additive when mixing with glyphosate Always add Priaxor 1st to spray tank 	<ul style="list-style-type: none"> Do not mix with conventional herbicides/insecticides Apply Quadris at midpoint between micro-rates Do not add deposition aids or any oil based additive when mixing with glyphosate Additional surfactant along w/ glyphosate will <u>not</u> increase risk of injury Narrower bands are most effective, do not reduce rate Always add Quadris 1st to spray tank 	<ul style="list-style-type: none"> Do not mix with conventional herbicides/insecticides Apply Quadris at midpoint between micro-rates Do not add deposition aids or any oil based additive when mixing with glyphosate Additional surfactant along w/ glyphosate will <u>not</u> increase risk of injury This is our least preferred method, but still beneficial Always add Quadris 1st to spray tank
(see reverse side)			

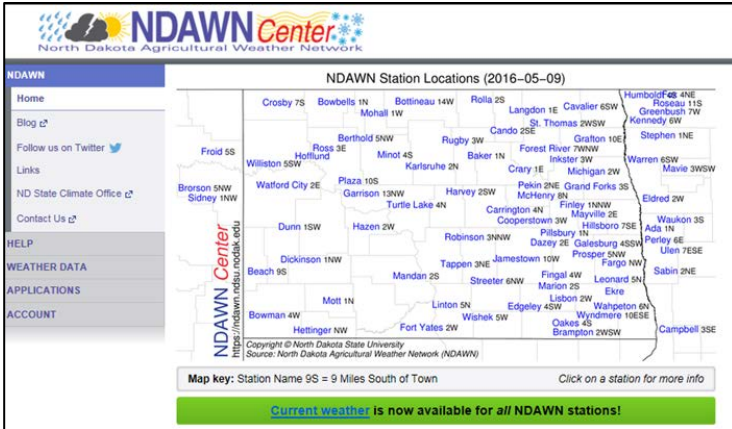
RHIZOCTONIA MANAGEMENT OPTIONS		AG GOLD STANDARDS	American Crystal Sugar Company
DISEASE SEVERITY	RECOMMENDATIONS		
Slight	Seed Treatment with Post Quadris/Priaxor		
Moderate	Increase Crop Rotation Length, Tolerant Variety, Seed Treatment, Post Quadris/Priaxor 1x		
Severe	Increase Crop Rotation Length, Tolerant Variety, Seed Treatment, Post Quadris/Priaxor 1x or 2x		
ADDITIONAL NOTES:			
<ul style="list-style-type: none"> Quadris and Priaxor are both SC formulations, always add them 1st to spray tank, use good agitation and apply the mixture promptly Quadris/Priaxor should never be tank-mixed with any oil-based additives or EC formulations of herbicides/insecticides due to increased risk of injury Consider using Seed Treatments in place of an in-furrow fungicide to reduce stand loss and input costs Seed Treatments for the control of Rhizoctonia <u>do not</u> provide season long control and should be coupled with post Quadris/Priaxor 			



- Fertility
- Variety Selection
- Stand Establishment
- Weed Control
- Disease & Insect Control
- Harvest



To add as a follow-up to the last Ag Notes, on Page 1 is the Rhizoctonia Management Card we have put together for this year as a reference. Link: <https://www.crystalsugar.com/media/53721/rhizcard.pdf>. If growers cannot apply their POST fungicide application 4-5 weeks after planting (as a result of weather delay or reduced seedling growth stage) the next week or later remains beneficial...better to protect than ignore. 2 – 4 leaf stage sugarbeets are ideal for timing a POST fungicide application, with 6 – 8 leaf sugarbeets still providing a benefit from the application, apply as there is still benefit and some protection going out to 8 weeks. There is a return on this application and is worth the investment. According to a 5-year average of our database, we see a realized average benefit of \$80 per acre from a POST application of fungicide, with storage and processing benefits (up to \$18 / ton in storage losses alone) as added value.



NDAWN Stations Added to Our Region
 2 new weather stations have been to the NDAWN (North Dakota Agricultural Weather Network) last fall, Waukon and Ulen; this brings the total in our growing region to 26 stations in the network and a total of 83 stations in the total NDAWN system. For further information, 3 links for your information:
 NDAWN: <https://ndawn.ndsu.nodak.edu/>
 NDAWN Twitter link: <https://twitter.com/NDAWNweather>
 Daryl Ritchison (North Dakota's Assistant State Climatologist and Extension Meteorologist) Twitter Handle is @darylritchison

5-Year American Crystal Growing Region Production Looking at Cropping Season Length

Crop Year	Avg. Planting Date	Harvested Acres	Net Tons	Avg. Growing Days	Yield (tons/acre)	Sugar %	SLM%	Rec. Sugar/Acre	Avg. Stand count (per 100 ft of row)
2011	19-May	443,045	9,158,254	147	20.7	18.04	1.27	6,935	186
2012	23-Apr	421,080	11,414,547	170	27.1	19.14	1.30	9,675	194
2013	15-May	435,637	10,981,750	147	25.2	17.33	1.13	8,165	194
2014	21-May	411,213	9,516,795	135	23.1	17.40	1.10	7,531	200
2015	22-Apr	397,183	11,083,011	162	27.9	17.79	1.14	9,291	193
5 Yr Summary	8-May	2,108,158	52,154,357	153	24.7	17.97	1.19	8,299	194

Planting date, and therefore growing days, plays a large role in crop production as you can see above. This is a look back at some of the details of prior crops at American Crystal.

For prompt answers to your questions and comments, call and leave a message and David Berg or one of his staff will respond as soon as possible.
Shareholders:
1-800-633-8941

Cover Crop Management

We have been pleased to see cover crop use continuing to increase at American Crystal. The past windy days are a reminder of the need of cover crop. As a reminder, please stay on top of getting cover crop sprayed out. Glyphosate works slowly in cool conditions...the same conditions where small grain crop crops thrive. Long stretches of rain can keep field sprayers out of the field too long. Look to spray out cover crop starting at the 3-leaf small grain stage. The cover crop "carcass" will protect and hold the soil. With dry conditions in the south, cover crop competes with sugarbeets for moisture, and will win. Small grain seedlings are like an iceberg, there can be triple the mass below the surface compared to the mass above the surface. Controlling cover crop too late results in adverse competition along with higher solar reflectance (albedo) from thick dying grasses and therefore lower solar absorption (less heat availability) for sugarbeet development.