



564 - Disease Management 2012

March 13, 2012

Rhizoctonia

Rhizoctonia root and crown rot has surpassed Aphanomyces as the most widespread disease in the American Crystal growing area. Incidence and severity have dramatically increased in the past decade. Several options are available to minimize disease impact. Every option for management and control should be utilized. Yield losses can reach 50 percent if not controlled.



Rhizoctonia Management Options Based on Disease Severity

Disease Severity	Recommended Management
Slight	Post Fungicide Only
Moderate	Lengthen crop rotation. Use tolerant variety. In-furrow or T-band fungicide. One POST fungicide application.

Rhizoctonia Management Options Based on Disease Severity

Disease Severity	Recommended Management
Severe	Lengthen crop rotation. Use tolerant variety. In-furrow or T-band fungicide. POST fungicide once or twice as needed.

2012 ACSC Rhizoctonia Management Options				
American Crystal Sugar Company	Quadris®	Headline fungicide	Quadris®	Quadris®
	AT-PLANT	AT-PLANT	POST	POST
METHOD	T-BAND (4")	IN-FURROW	BAND (7-11")	BROADCAST
TIMING	At plant	At plant	Just prior to 65° F 4" soil temp	Just prior to 65° F 4" soil temp
RATE	10 oz/Acre	6-9 oz/Acre	10 oz/Acre	15 oz/Acre
TANK-MIXES	None Recommended	Starter Fertilizer	Glyphosate w/ min. surfactant	Glyphosate w/ min. surfactant
WATER VOLUME	8 gal/A	>1 gal/A	10-20 gal/A	10-20 gal/A
NOTES	<ul style="list-style-type: none"> T-banding is the safest option for at-plant applications, Do not reduce rate Applying in-furrow is risky Less risk with in-furrow if planting late in warm soils More phytotoxic in cool soils 	<ul style="list-style-type: none"> Some stand loss may occur, adjust seeding rate accordingly Slight pressure : 6oz/A Severe pressure: 9oz/A Mix with water prior to adding to starter fertilizer Need good agitation May separate if left more than 4 hours without agitation Apply with minimum of 2.5 gal/A of carrier 	<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 when mixing with glyphosate Narrower bands are most effective, do not reduce rate 	<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 when mixing with glyphosate This is our least preferred method, but still beneficial

Plant Population Choices

American Crystal variable rate seeding research has shown that seeding rates should be increased by at least 10 percent on the lower productivity areas of fields if you have variable rate seeding planter equipment.