The Narrow Brown Leaf Spot Outbreak and Its Control in 2007

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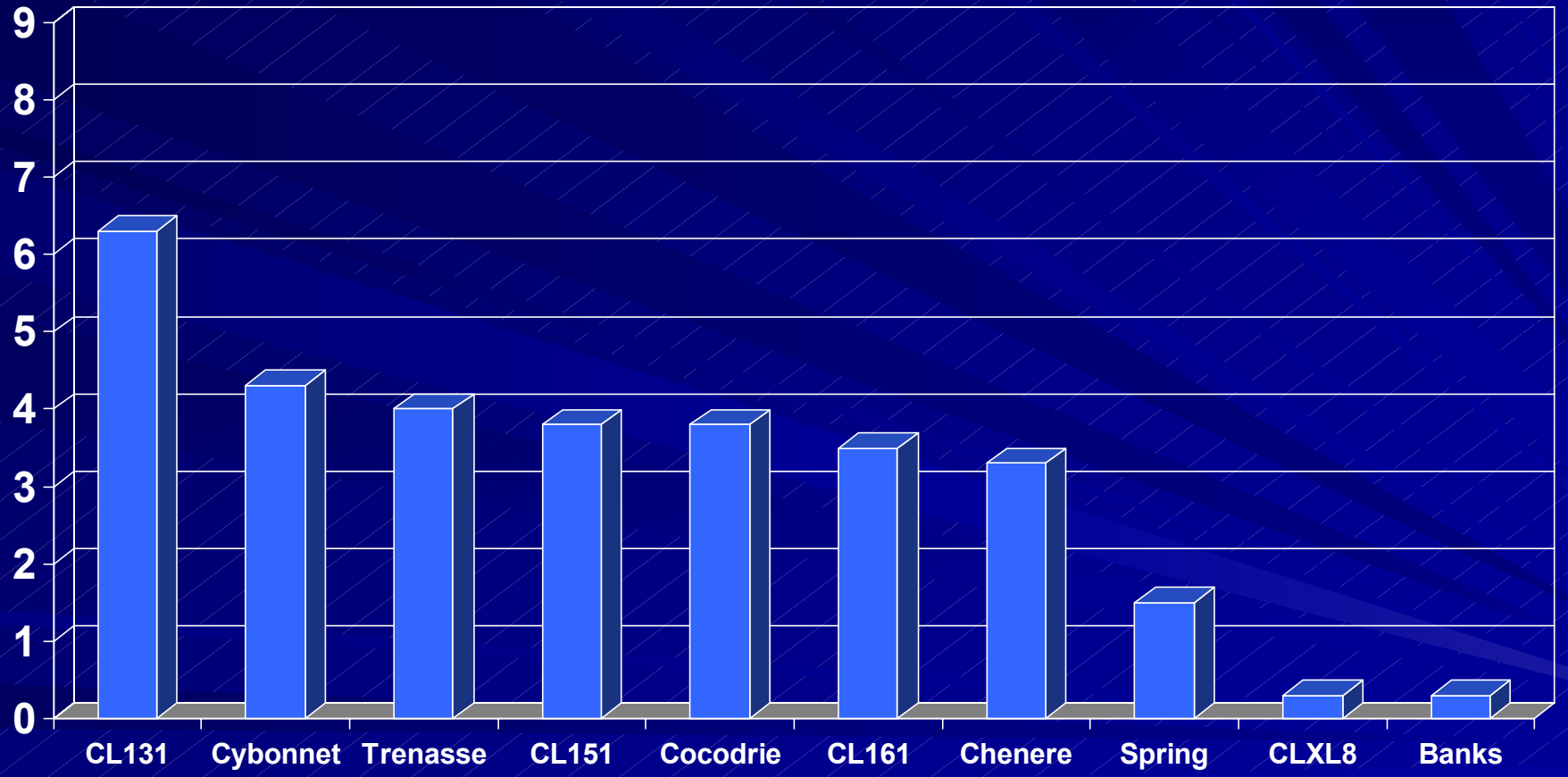
Cercospora on Rice

- Narrow Brown Leaf Spot, also called Cercospora leaf spot
- Cercospora Sheath Rot
- Attacks panicle branches and glumes
- Causal organism: Cercospora oryzae
- The disease has been reported in all major rice producing areas of the world
- Yield losses of up to 40% have been reported

Disease Cycle

- Penetrates tissues through stomata and grows intercellularly
- Symptoms may take 30 days to develop
- Plants susceptible at all growth stages but more susceptible from panicle emergence to maturity
- Several races have been identified based on the reaction of a set of eight cultivars

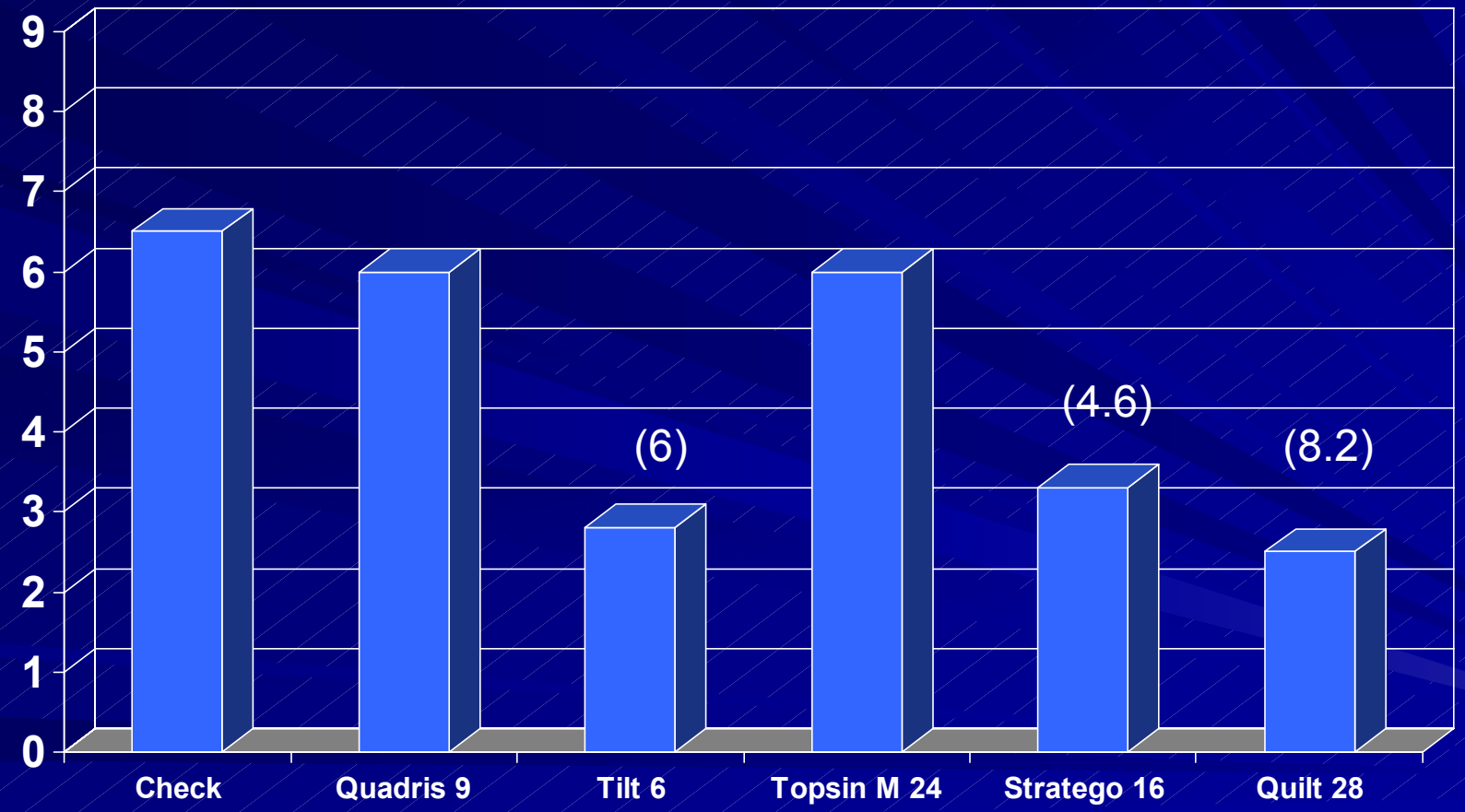
Long-grain Disease Reactions Narrow Brown Leaf Spot



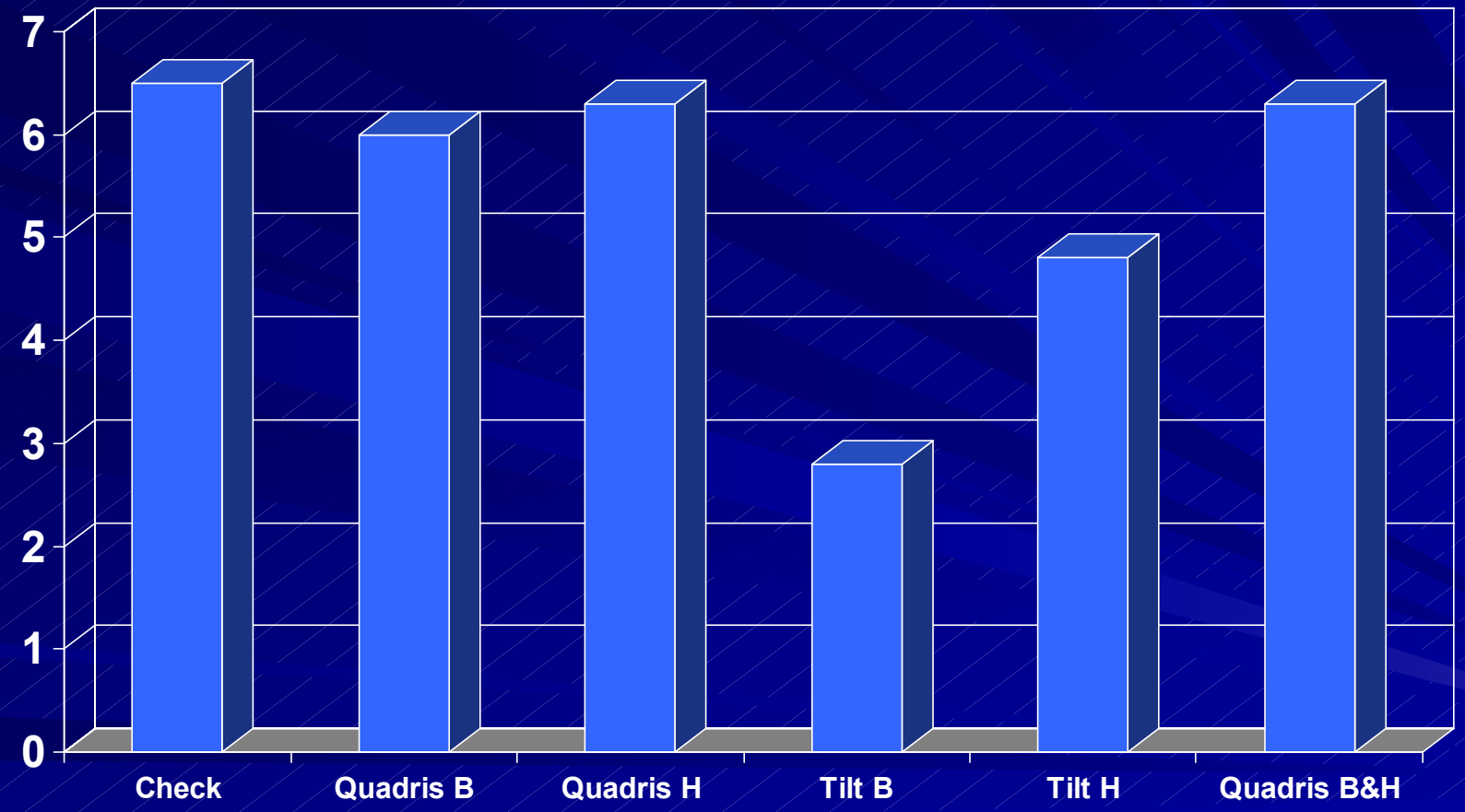
Narrow Brown Reactions

Susceptible	Moderately Susceptible	Moderately Resistant	Resistant
CL131*vs. Cybonnet	CL161	Spring	CLXL8
Trenasse	Cocodrie	CLXL730	XL723
		Cypress	CLXL730
			Jupiter
			Banks
			Pace
			Bengal
			Medark
			XP712

Fungicide effects on NBLS Boot Applications



Fungicide effects on NBLS Boot vs. Heading Applications



Rice Fungicide Types

Propiconazole	Propiconazole + Strobulin	Strobulin	Flutolanil
Tilt	Quilt	Quadris	Moncut
PropiMax	Stratego	Gem	
Bumper	Tank Mix		

Why?

- Over wintering rice in crawfish ponds contributed early inoculum
- Very wet conditions during July favored disease development
- Quadris used on 80-90% of treated acreage had no effect on this disease
- Possible race change
- Will it happen again??????

Cercospora Disease Update

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