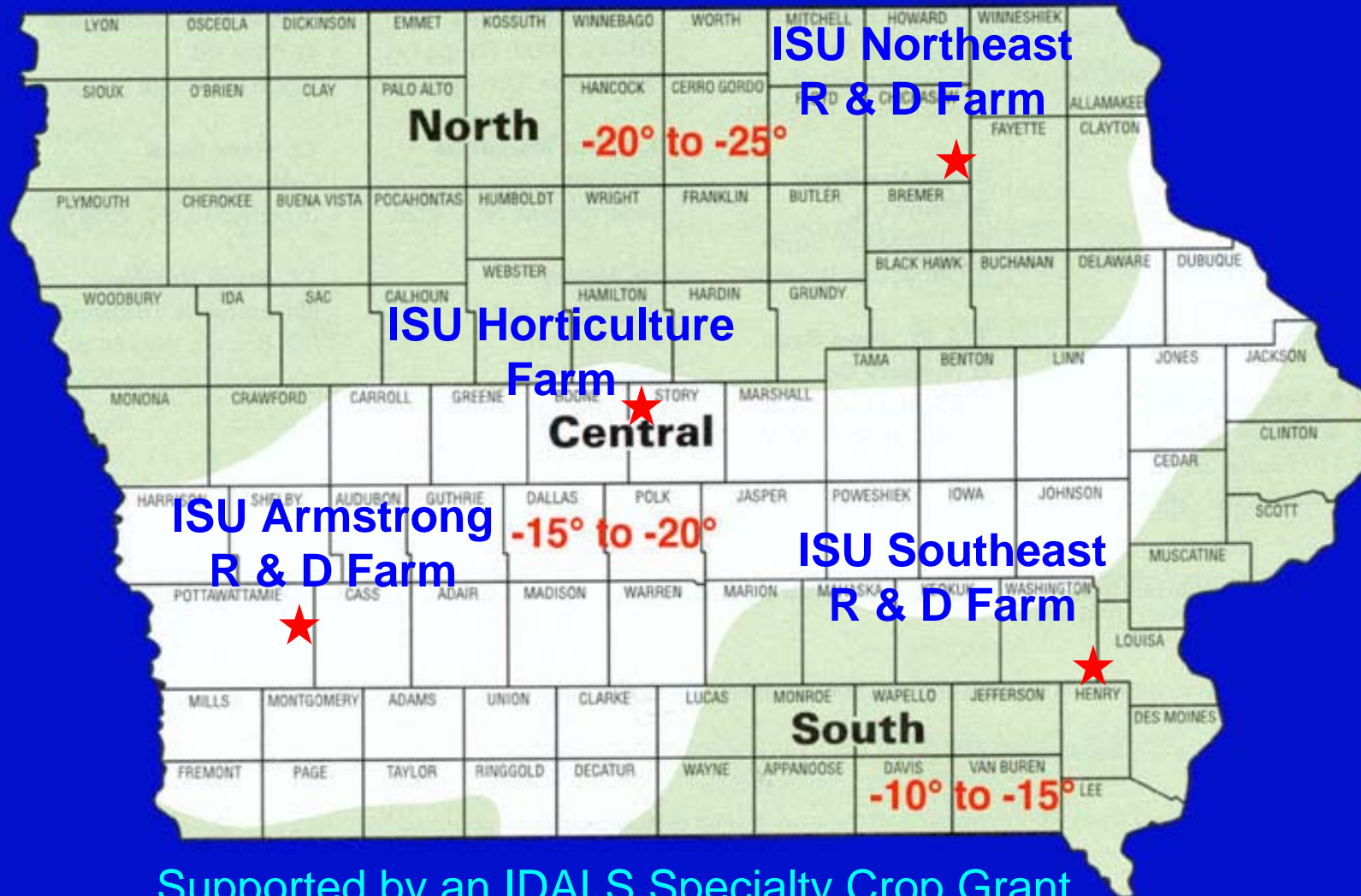


2003 Wine Grape Cultivar Trial - 2004 Report -



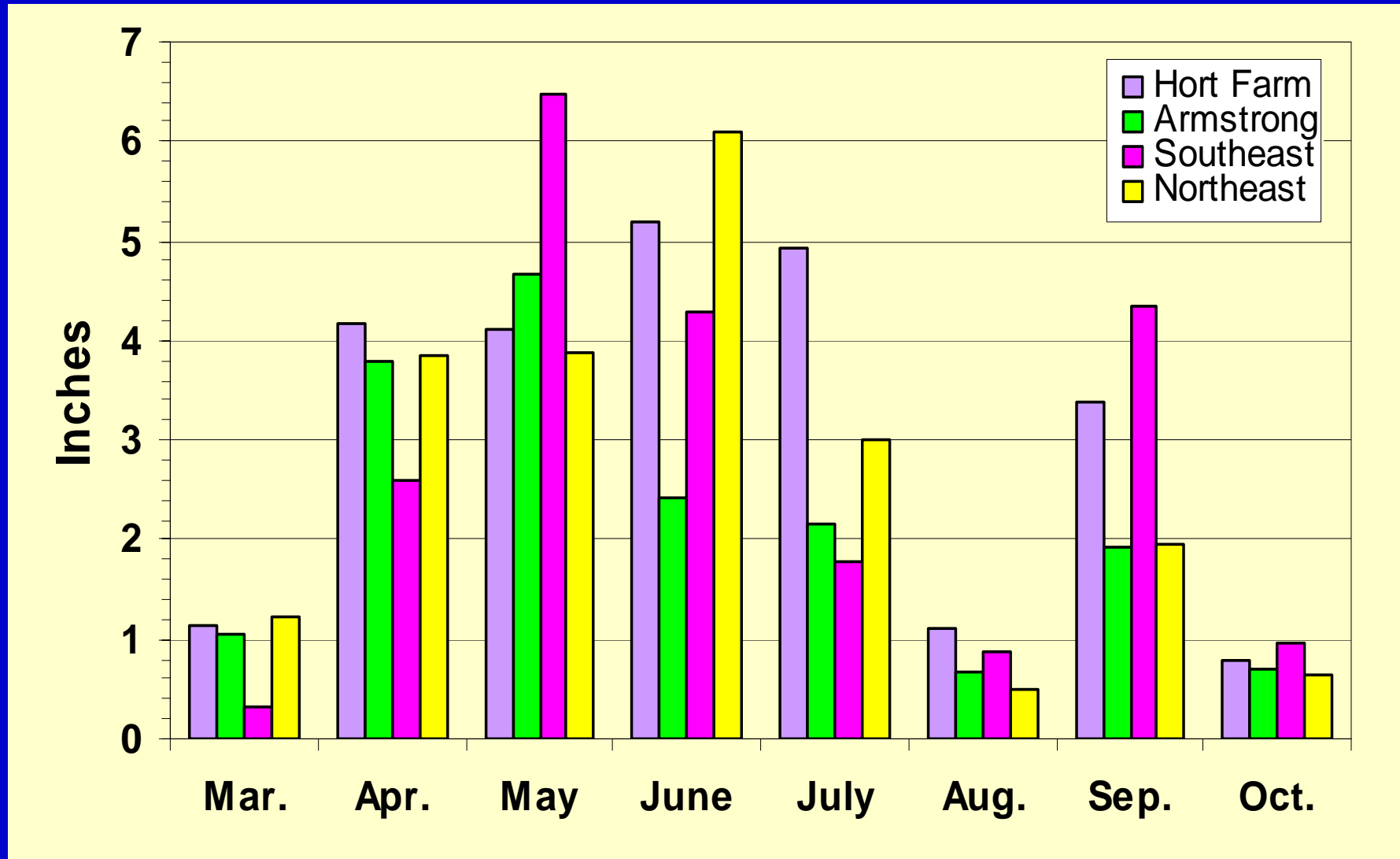
Supported by an IDALS Specialty Crop Grant.

Grape Cultivars

<u>New York:</u>	<u>Minn. / Wis.:</u>	<u>Cultivars not in 2002 planting:</u>
Rubiana (GR-7)	La Crescent	Cayuga White
NY73.136.17	Prairie Star ^v	Chancellor
NY76.0844.24*	Frontenac Gris*	De Chaunac ^v
NY84.0101.04	Swensen White**	Esprit
NY70.0809.10	Brianna*	Landot 4511
	MN-1211*	Leon Millot
	MN-1198*	St. Vincent ^v
	* Planted in 2004	Vidal Blanc
	** To be planted in 2005	
^v Trained to VSP		

The Northeast and Southeast R&D Farm plots also include the 15 cultivars from the 2002 planting.

2003 Precipitation



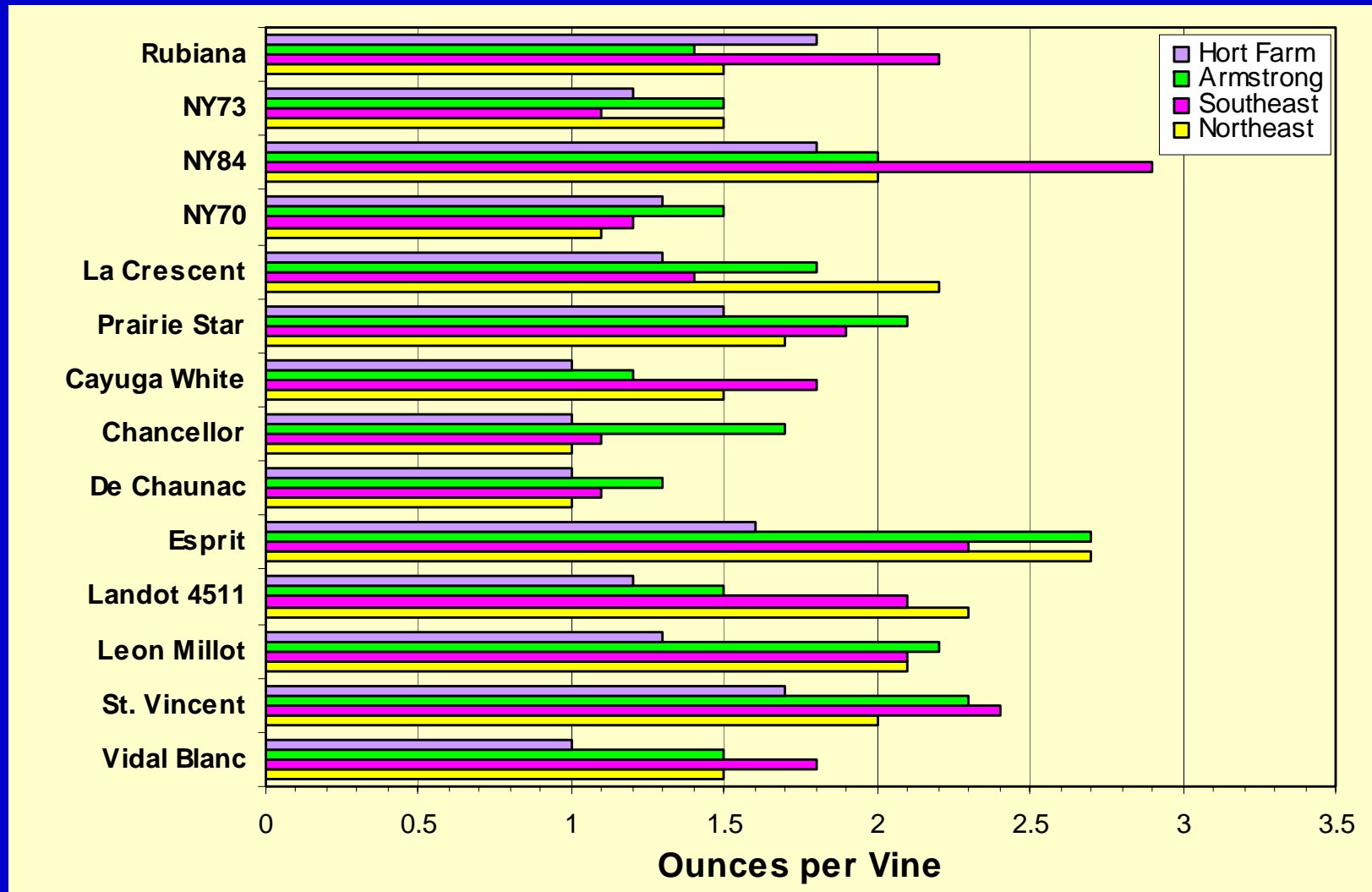
The Armstrong Farm was the driest site in 2003.

Northeast R&D Farm



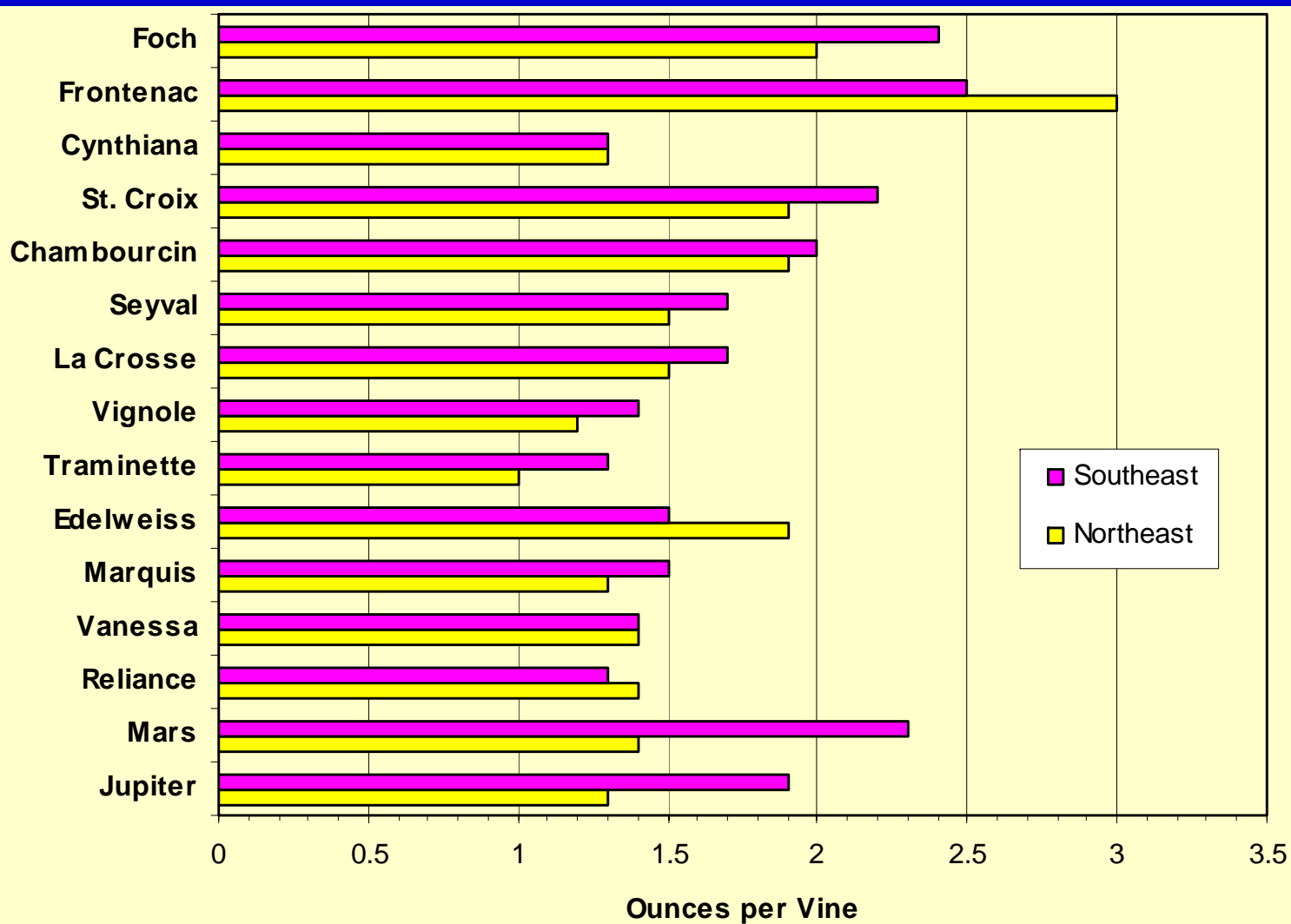
Vines were pruned to $\frac{1}{4}$ inch diameter wood or "green" tissue.

Pruning Weights



With early freezes occurring at three of the sites, much cane die-back was observed. As a result, pruning weights were a poor indicator of vine vigor.

Pruning Weights of cultivars from the Leopold Trial

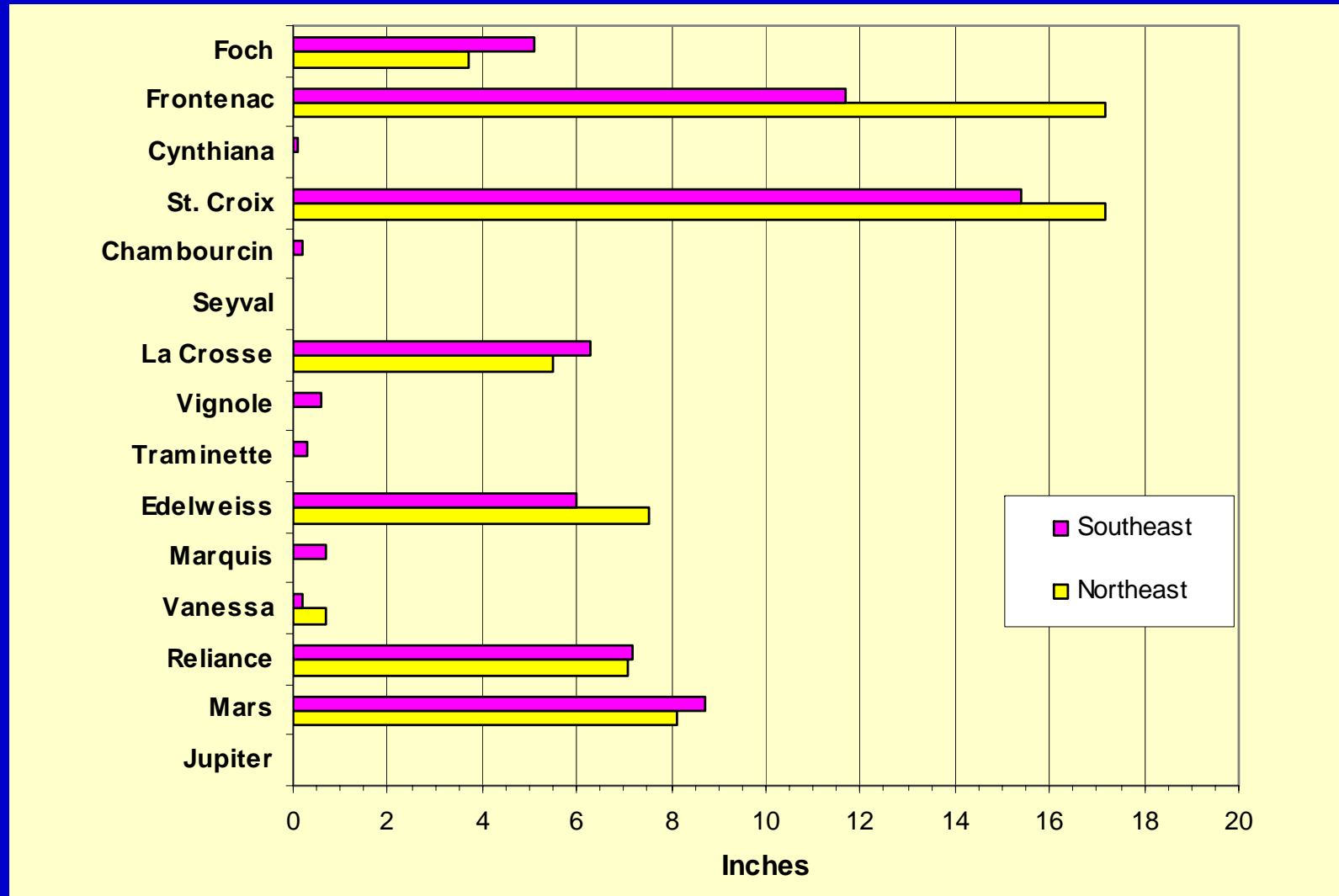


Height of Shoot Emergence



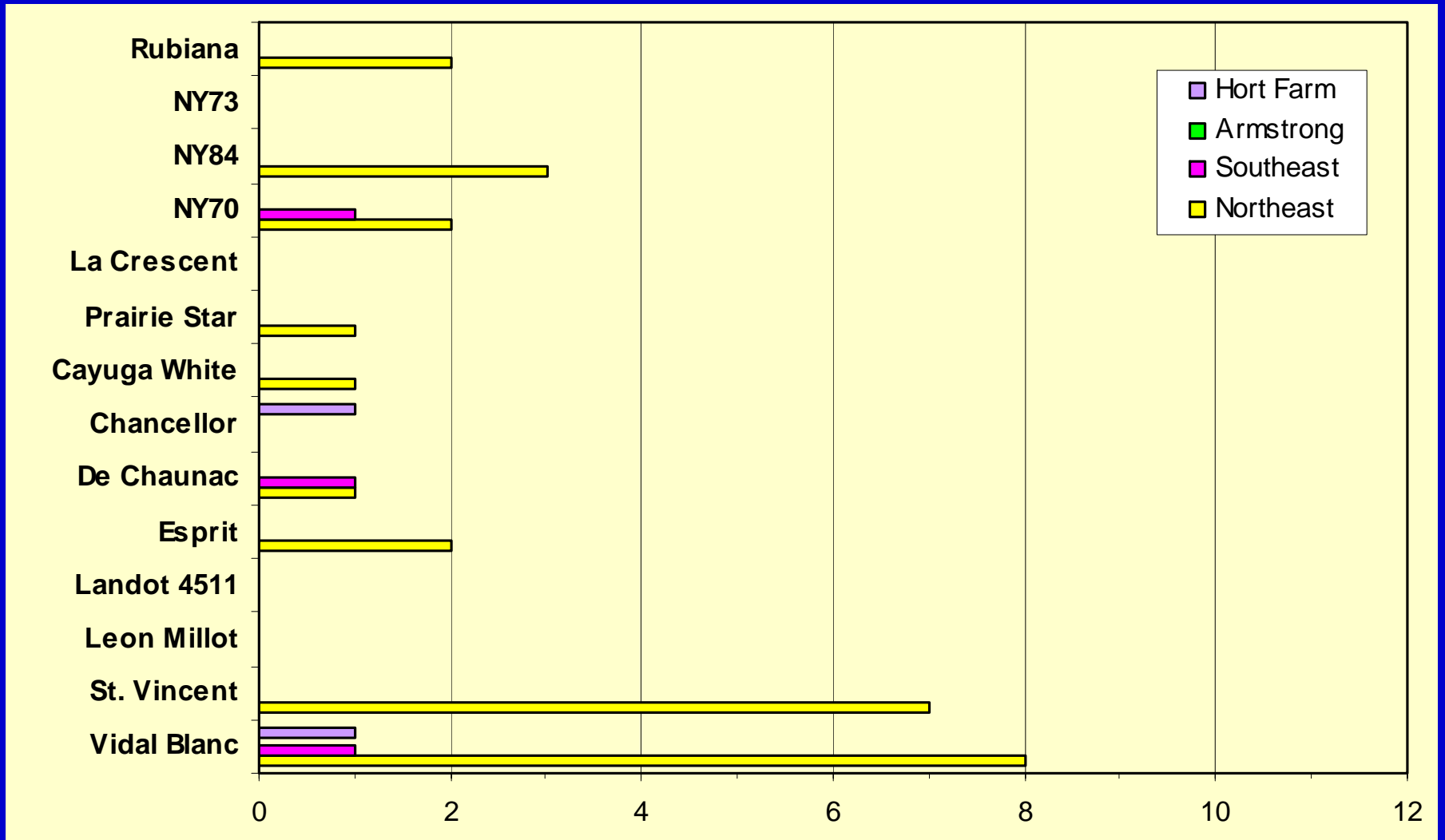
With the October 2 freeze, many cultivars at the Southeast and Northeast Farms were killed back almost to the ground.

Height of Shoot Emergence of cultivars from the Leopold Trial



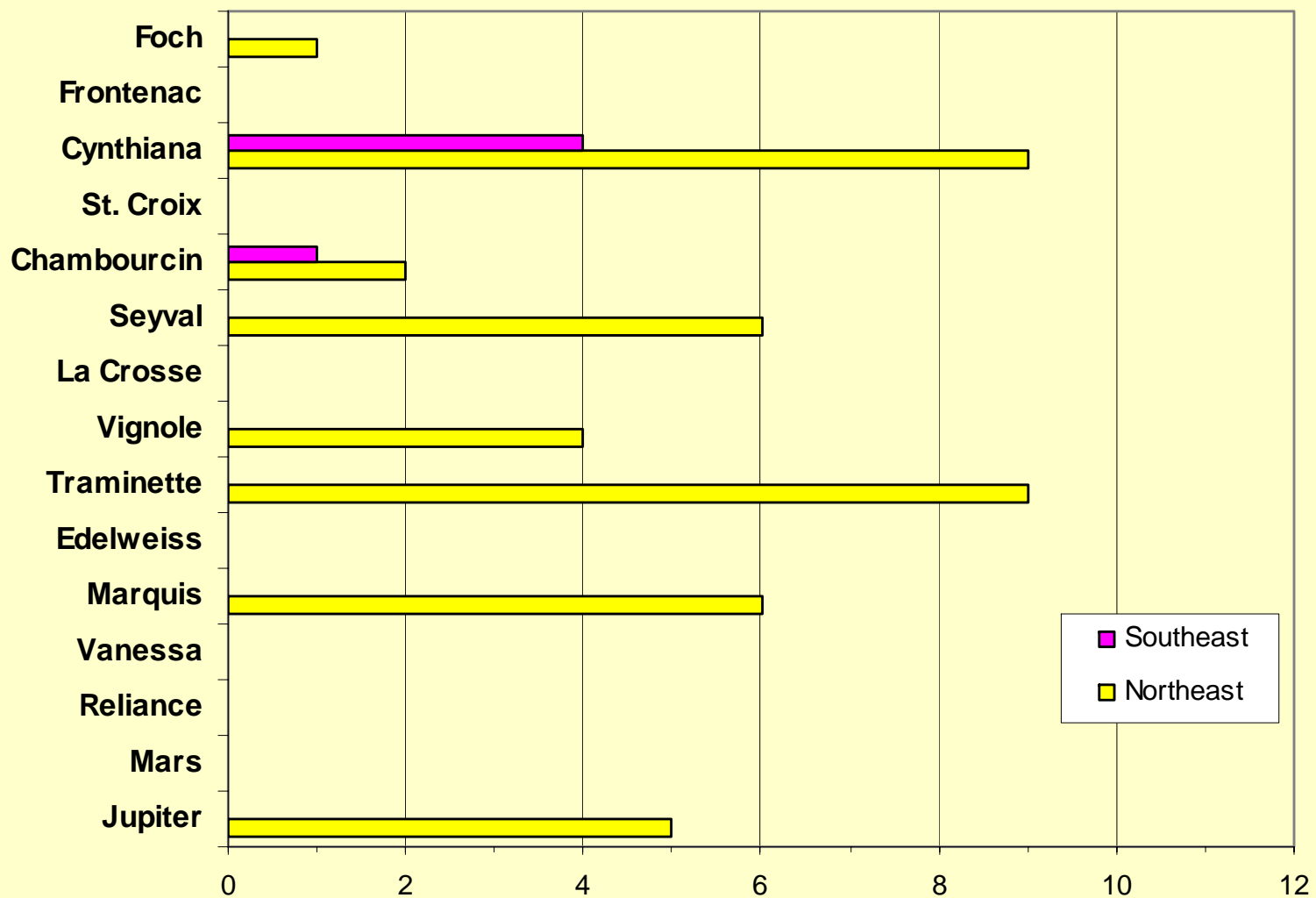
Among all cultivars, Frontenac & St. Croix exhibited the least die-back at both sites.

Vine Mortality

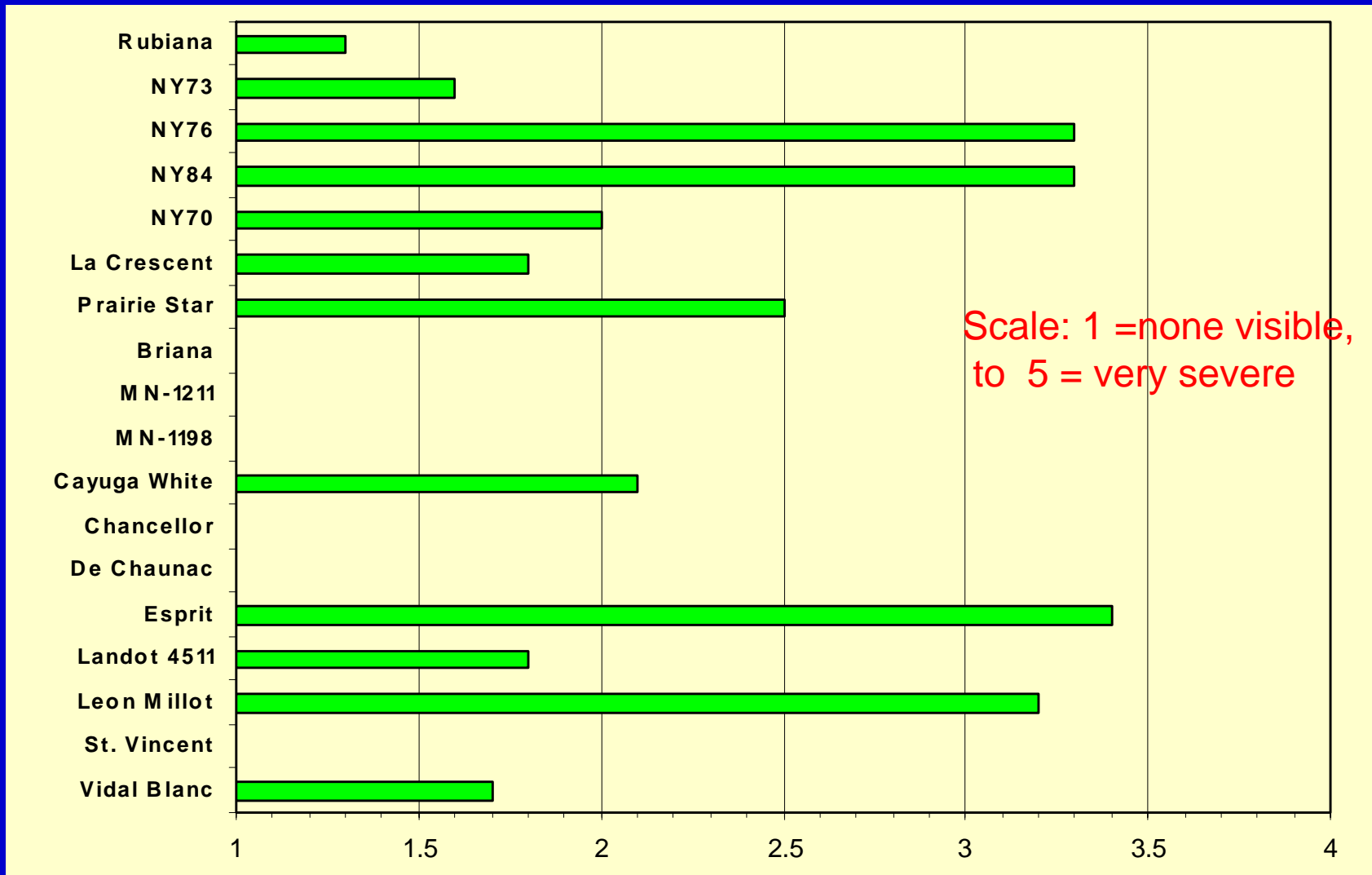


The greatest vine mortality occurred at the Northeast Farm.

Vine Mortality of cultivars from the Leopold Trial



2, 4-D Rating – Armstrong Farm



2,4-D injury was only observed at the Armstrong Farm.

Vines were rated for the incidence of anthracnose, powdery mildew, and downy mildew in September.



Anthracnose



Powdery Mildew

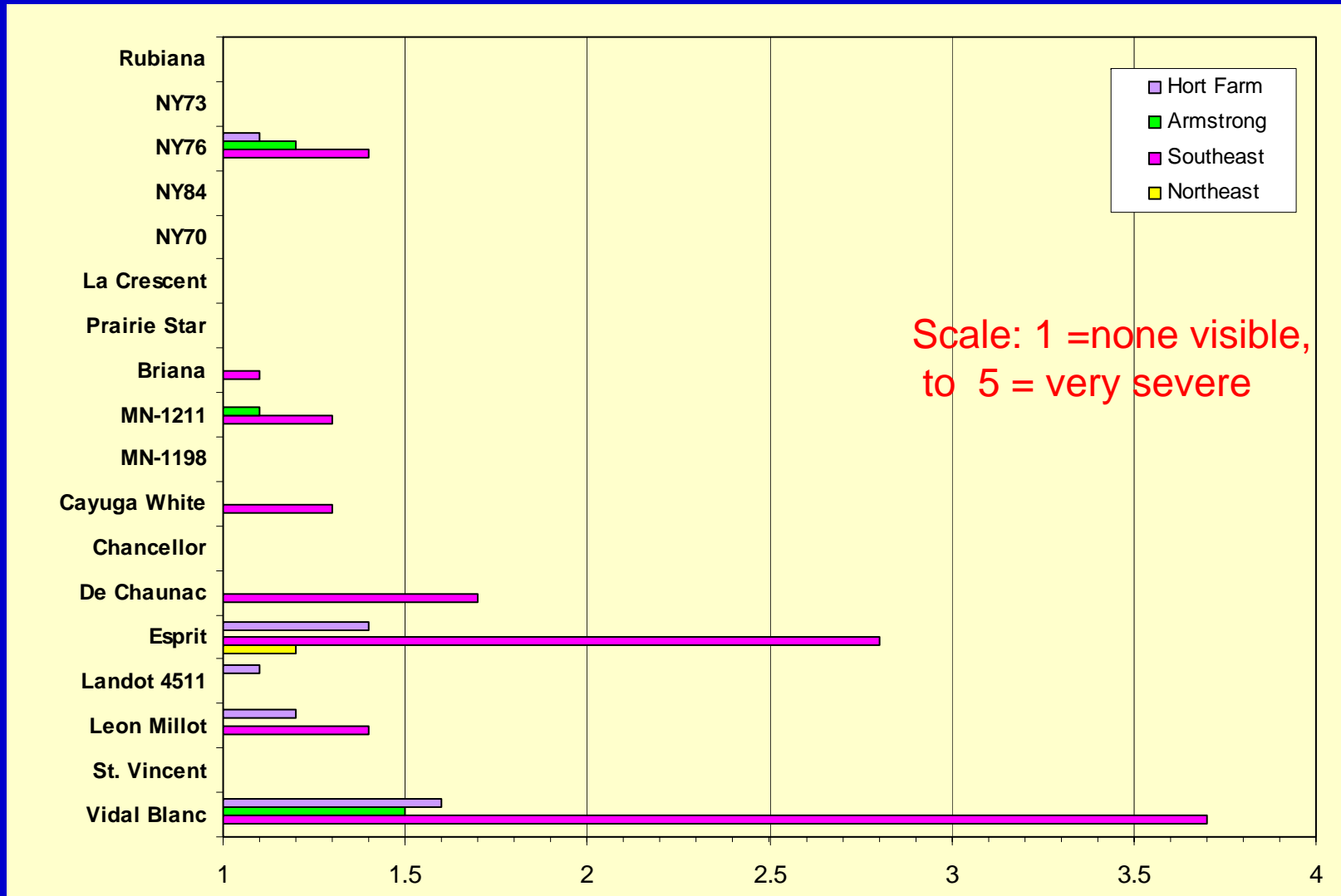


Downy Mildew



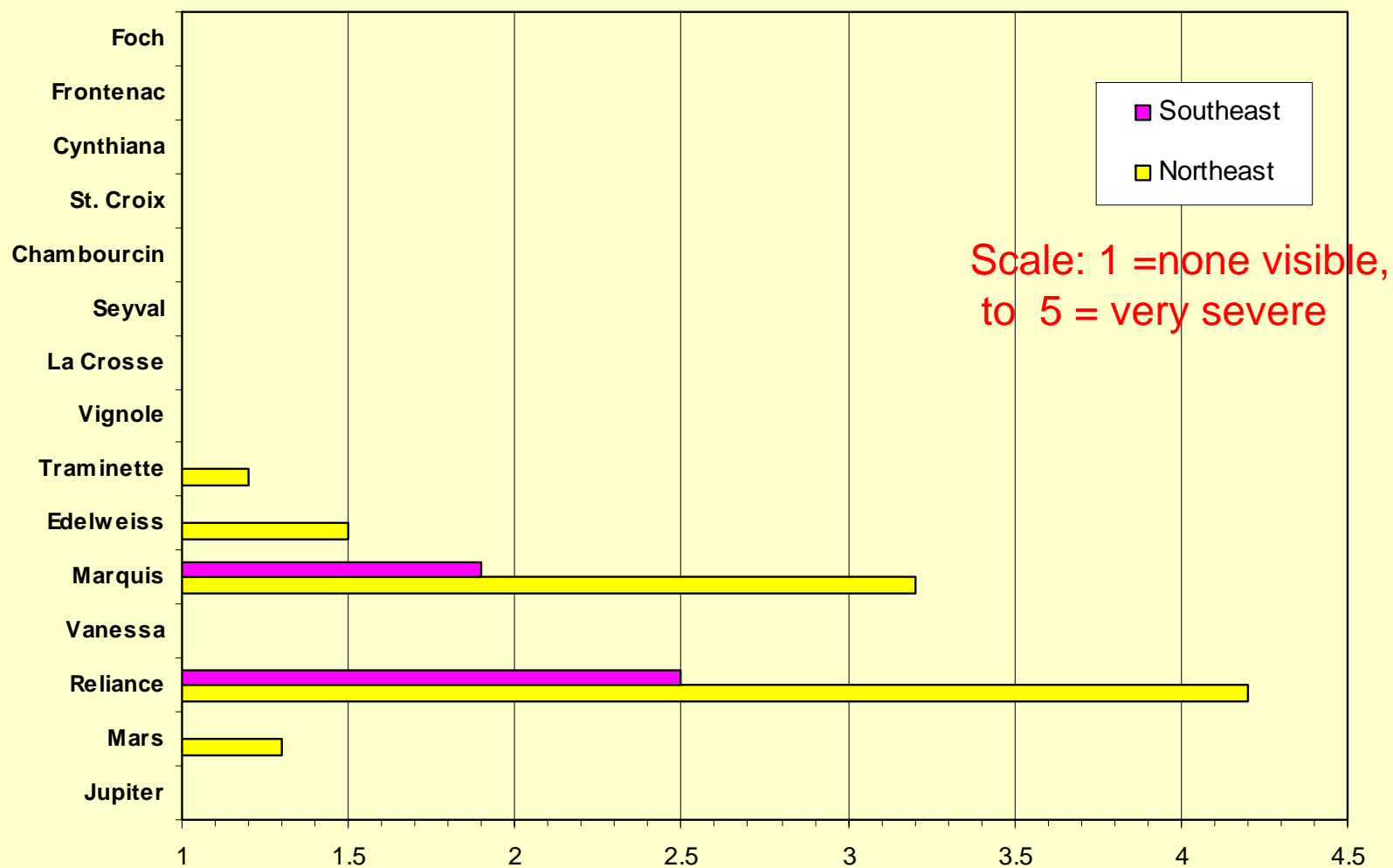
Downy Mildew

Anthracnose Rating

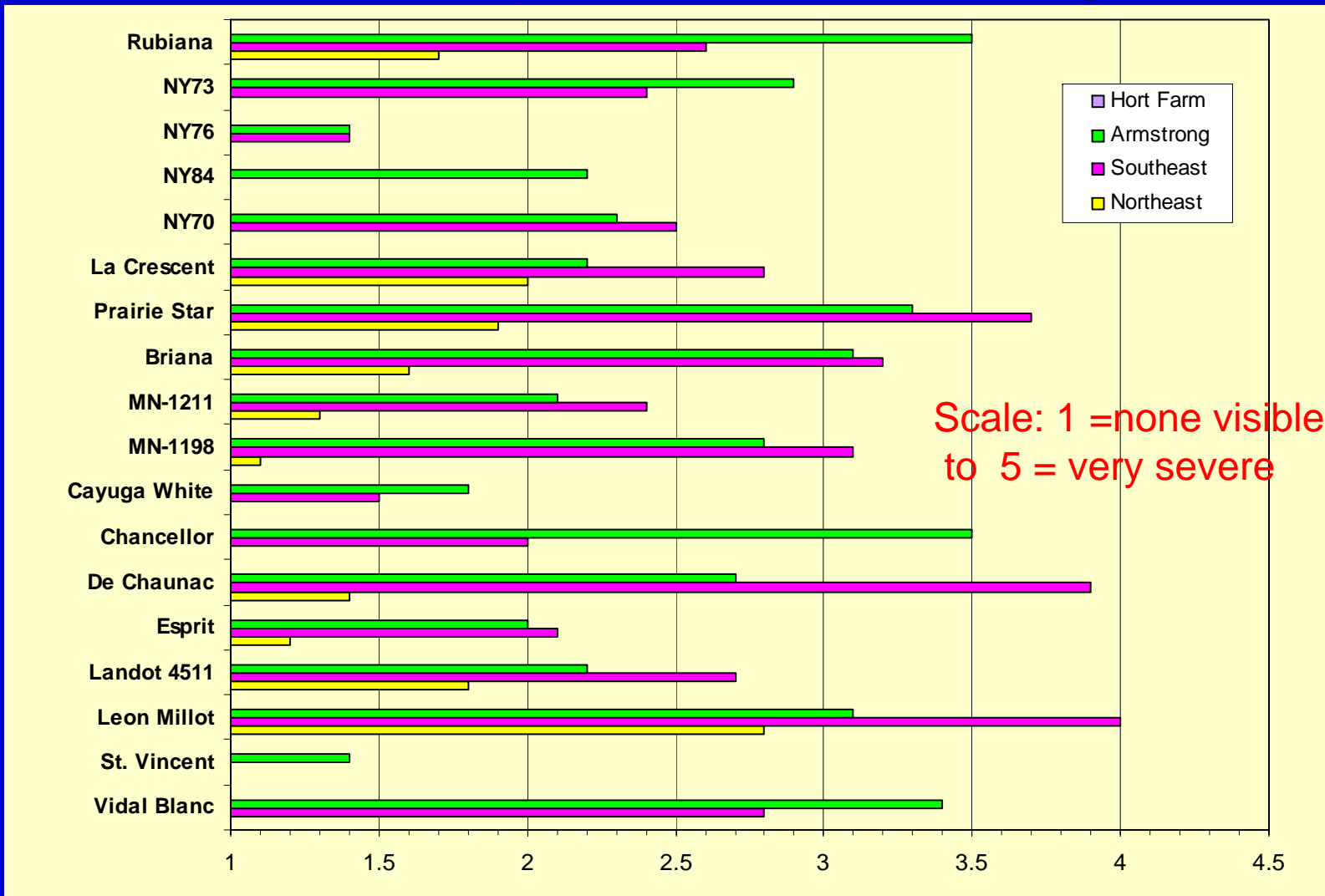


Although sprayed with a dormant application of liquid lime sulfur, some cultivars exhibited anthracnose symptoms.

Anthracnose Rating of cultivars from the Leopold Trial

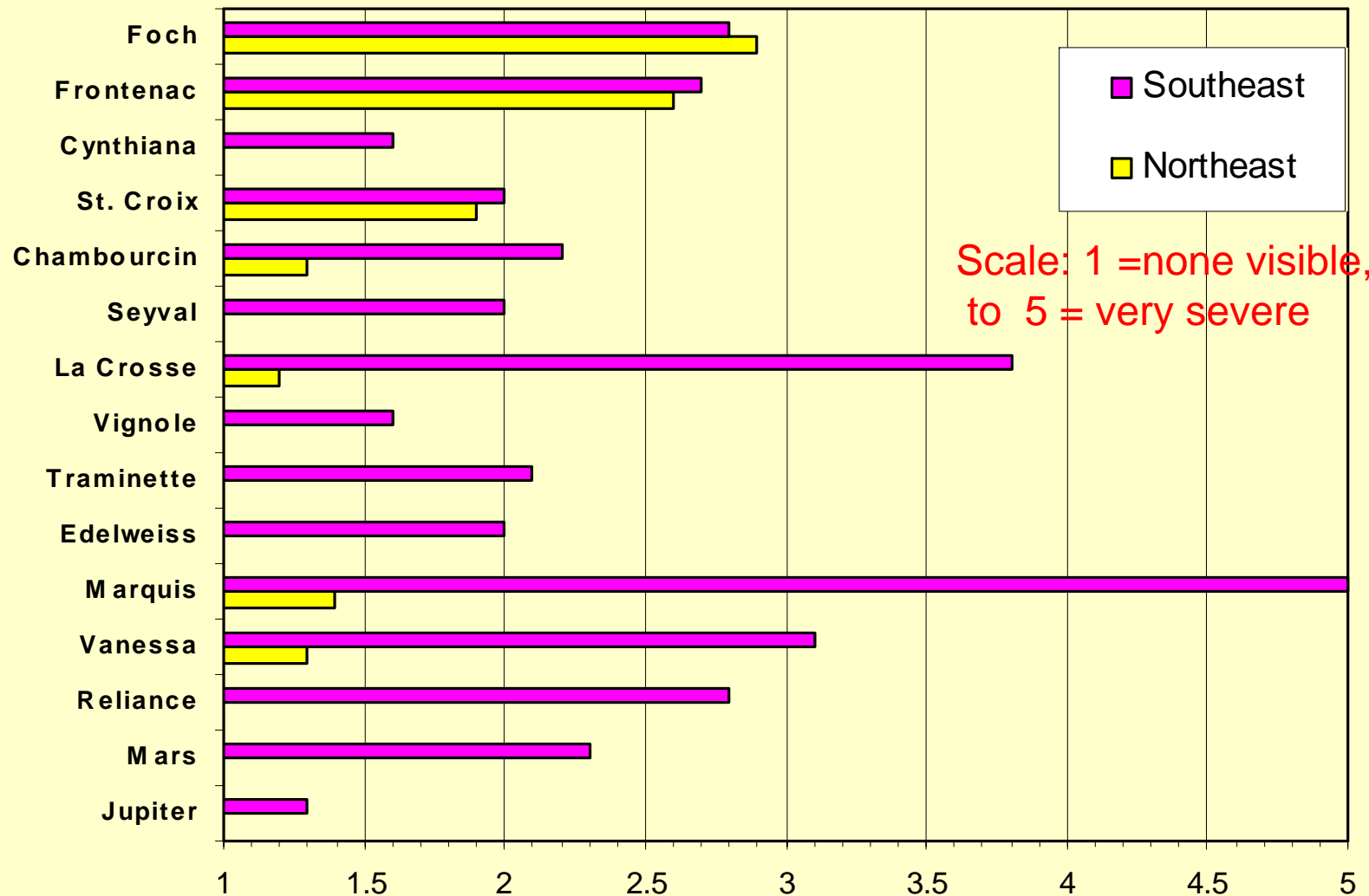


Powdery Mildew Rating

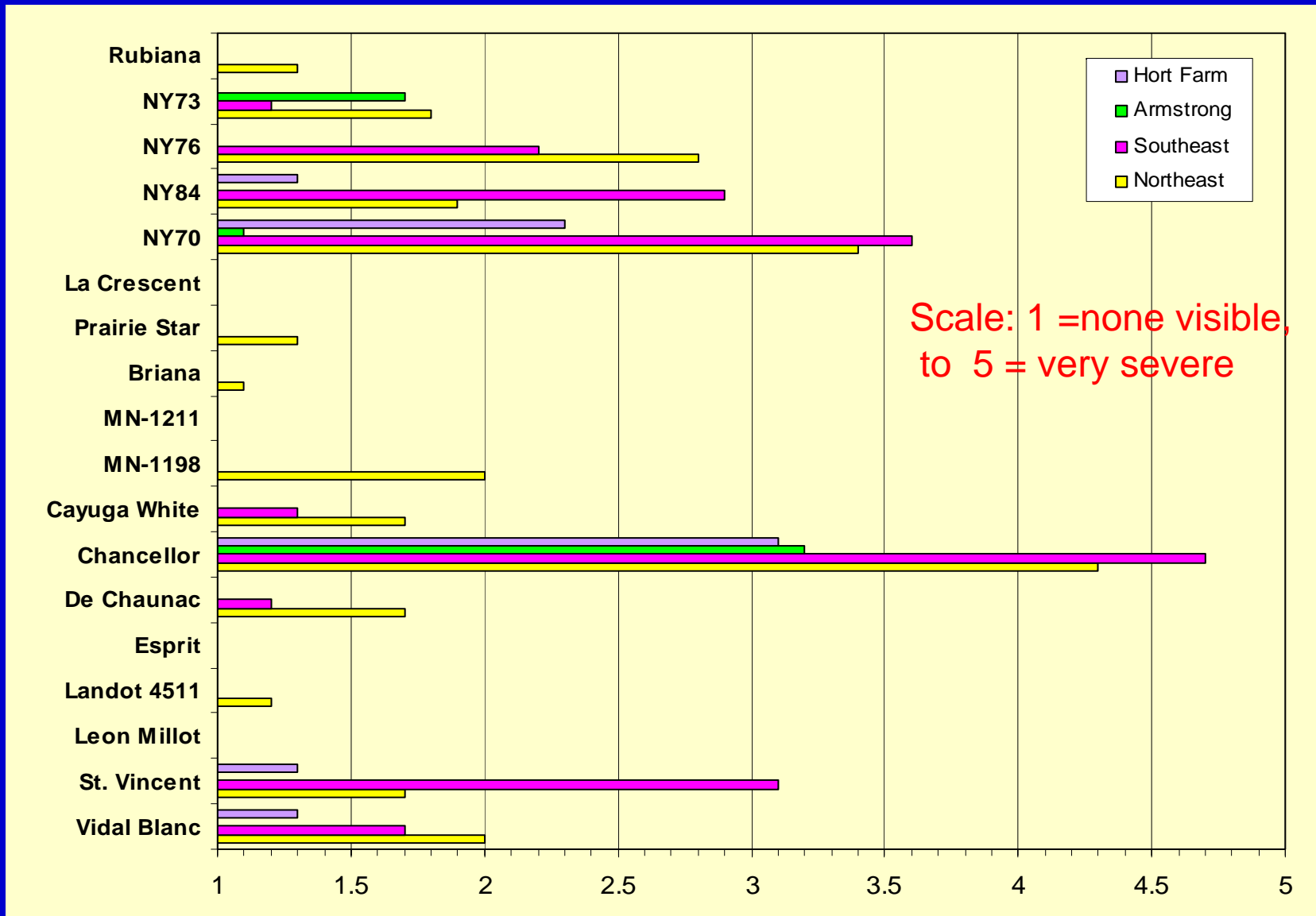


Differences in fungicide (captan) applications influenced the incidence of powdery mildew. Hort Farm - weekly beginning in July; Armstrong - 2 applications in Aug.; Northeast - 2 applications in Sept.; Southeast - no fungicides.

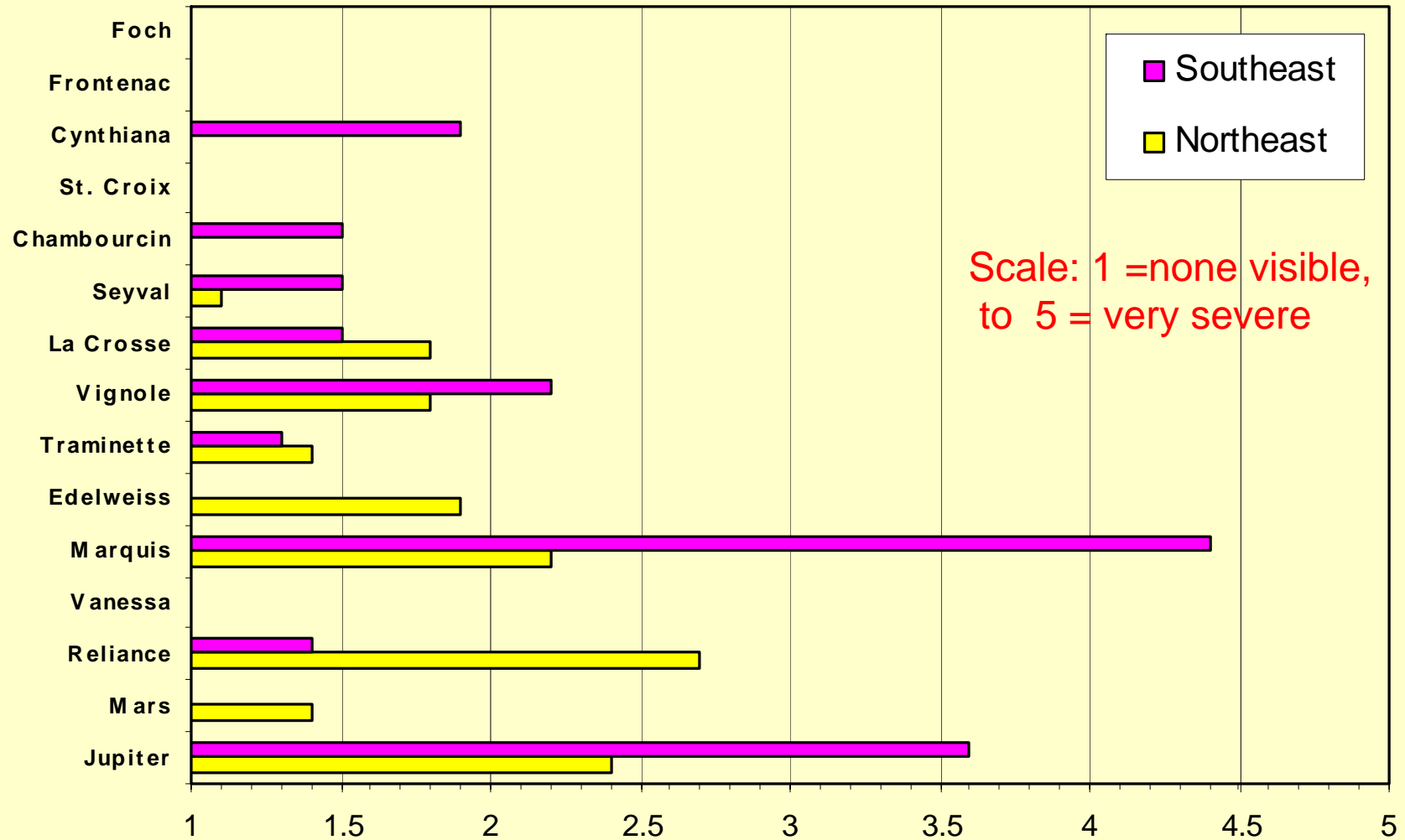
Powdery Mildew Rating of cultivars from the Leopold Trial



Downy Mildew Rating



Downy Mildew Rating of cultivars from the Leopold Trial



Plans for 2005

Southeast R&D Farm

Hold off cropping for one more year.

