

ISU Viticulture Research Update

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Iowa Grape Growers Association
Annual Conference
Des Moines, Iowa
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Grape Research Focus Areas

- Cultivar adaptation
- Disease management
- Culture / sustainability

Grape Cultivar & Culture Research Team



Dr. Paul Domoto



Brian
Keehner
(student)

Dennis
Portz
(student)

Casey
Barickman
(student)

2003

Dr. Gail
Nonnecke

Jill
Crozier
(grad student)

Craig
Dilley
(Tech)



Mark
Anderson
(student)

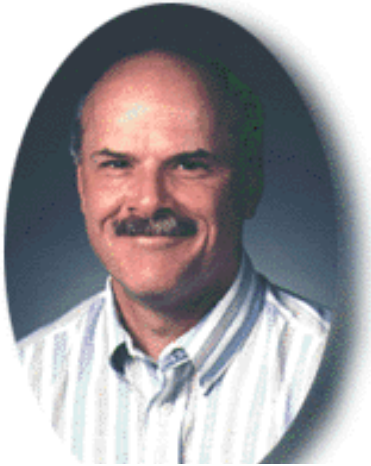
Craig
Dilley

Darin
Enderton
(student)

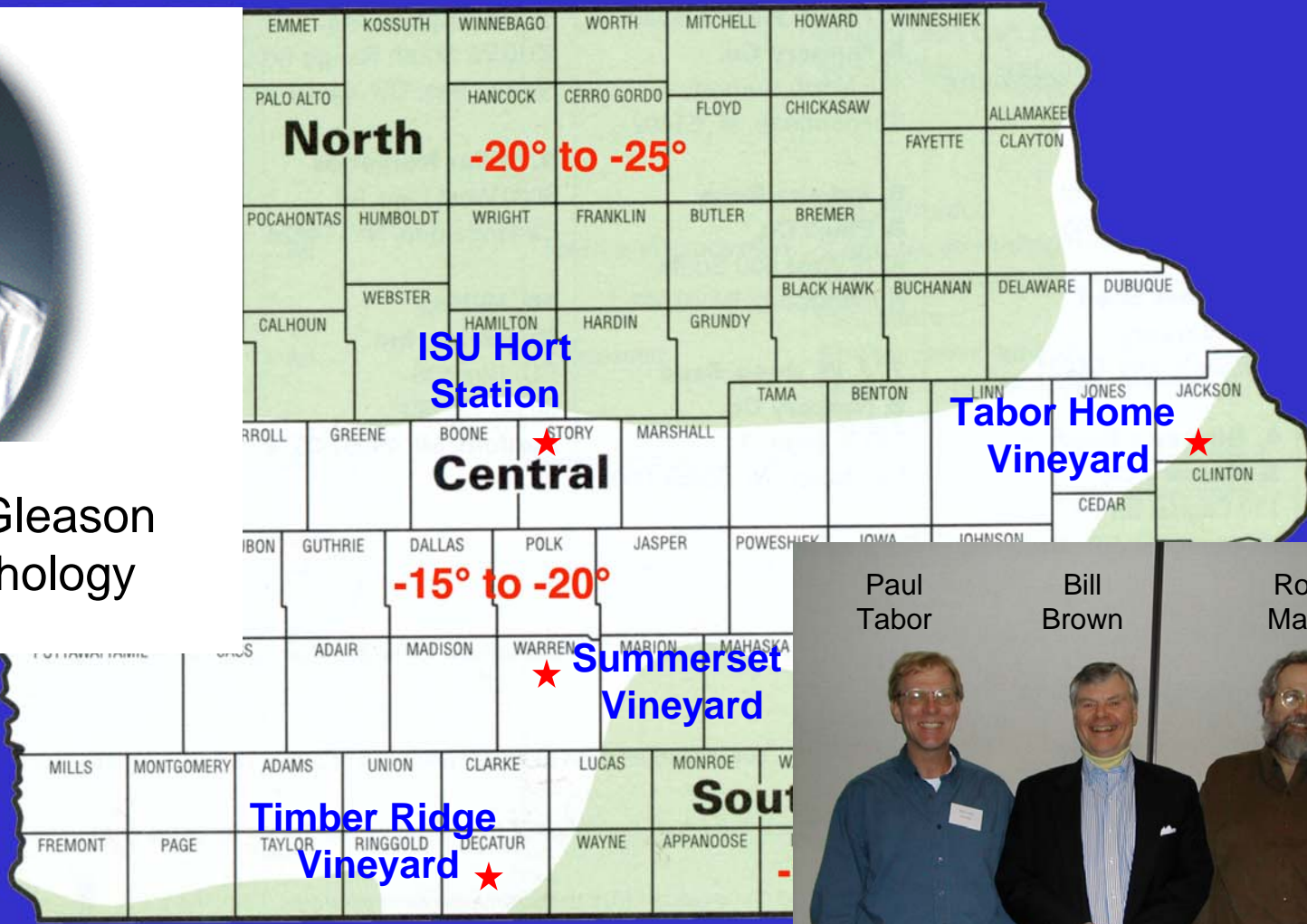
2002

ACME
VINEYARD

Grape Disease Management



Dr. Mark Gleason
Plant Pathology



Organic Grape Research

Project leader: Dr. Kathleen Delate

- ISU Neely-Kinyon Farm Organic Grape Demonstration Vineyard, Greenfield (Adair County)
 - 5 cultivars; organic treatments.
- Grower cooperators
- Extension 21 Program addressing organic grape production and pest management.



Grape Cultivar Studies

Project Leaders

Dr. Paul Domoto & Dr. Gail Nonnecke

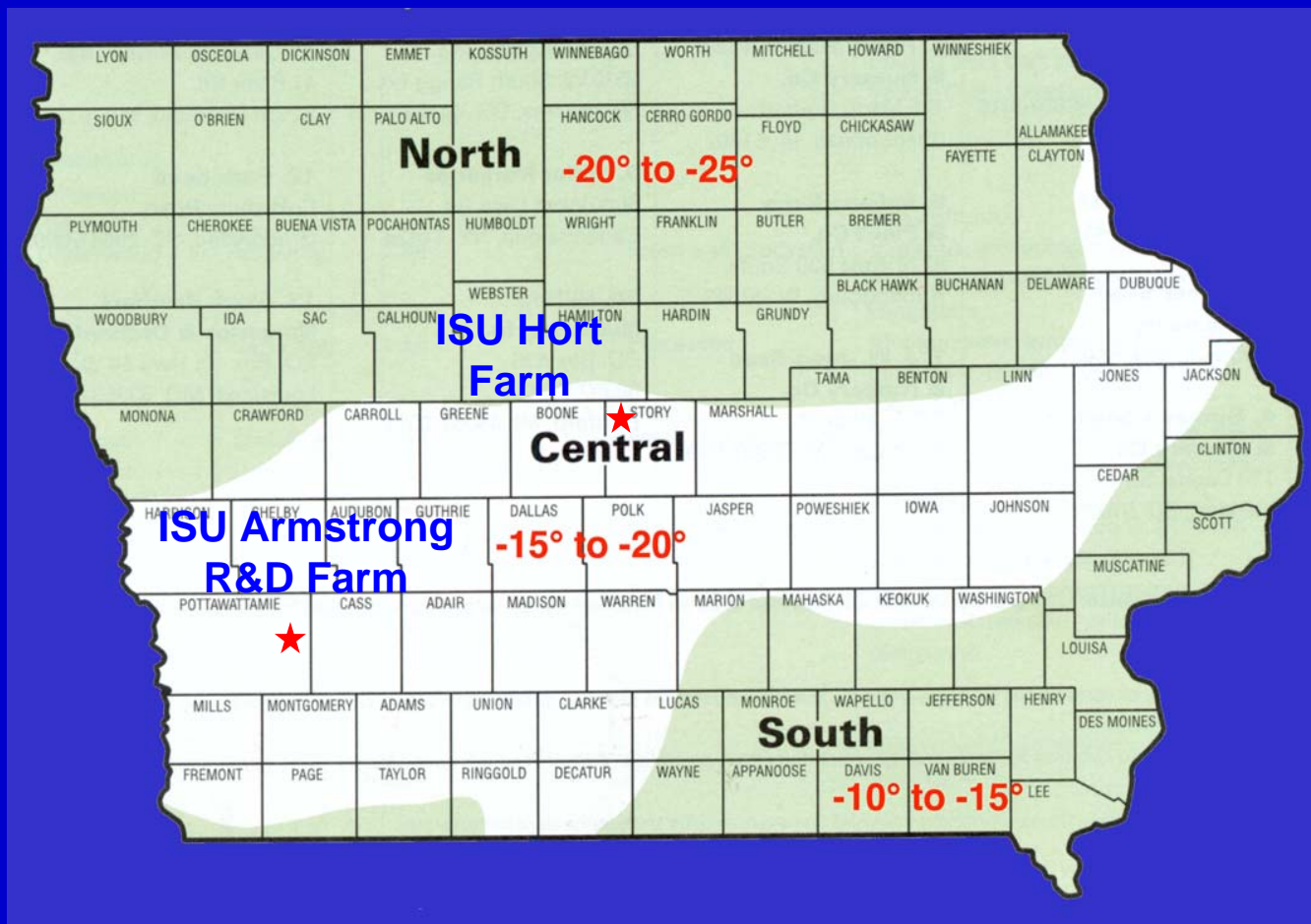
Objectives:

- Identify grape cultivars that are adapted to the various regions of Iowa.
- Assess the cultural requirements of grapes cultivars grown under Iowa climatic conditions.
- Evaluate the quality and wine making potential of grape cultivars under different Iowa climatic and soil conditions.

Grape Cultivar Trials

- **2002 Leopold Grape Cultivar x Management System Trial**
 - ISU Horticulture Farm
 - ISU Armstrong R&D Farm
- **2003 Wine Grape Cultivar Trial**
 - ISU Horticulture Farm, Ames
 - ISU Armstrong R&D Farm, Lewis
 - ISU Northeast R&D Farm, Nashua
 - ISU Southeast R&D Farm, Crawfordsville

2002 Leopold Grape Cultivar x Management Trial (Obj. 1) Planting Sites



Supported by a grant from the Leopold Center for Sustainable Agriculture.

Grape Cultivars

Wine		Table
Maréchal Foch (5)	Seyval Blanc (4)	Marquis (4)
Frontenac (6)	La Crosse (5)	Vanessa (4)
Cynthiana (4)	Vignole (4)	Reliance (4)
St. Croix (6)	Traminette (4)	Mars (4)
Chambourcin (3)	Edelweiss (5)	Jupiter * (4)

* Planted in 2003

Hardiness Rating: 3 = Cold tender (-5 F); 4 = Moderately hardy (-10 F);
5 = hardy (-15 F); 6 = very hardy (-20 F)

These cultivars were also included in the 2003 Wine Grape Cultivar Trial plantings at the Northeast and Southeast R&D Farms.

Management Systems

Systems:	Weed Control	Insect & Disease Control	Fertilizer
Conventional	Herbicides	Calendar spray schedule	Inorganic sources
IPM / Best Management	Herbicides	Monitoring to determine need	Inorganic sources
Organic Approved	Mechanical & Mulch	Organic approved pesticides	Organic sources (corn gluten meal)