Objective 2a

ii Canopy Management

Iowa:

- **Dylan Rolfes**, graduate student, Drs Gail Nonnecke & Paul Domoto
  - Undergrads: Danika Schaaf & Hanna Wallace

- **Cultivars/ Vineyard in 2012:**
  - **Frontenac**: Penoach Winery, Adel, IA
    - Stan Olson
  - **La Crescent**: Snus Hill Winery, Madrid, IA
    - Diane & John Larson
  - **Marquette**: *insufficient crop*

- **Treatments**: all combinations of:
  - Pre-bloom shoot thinning
  - Post-bloom shoot positioning
  - Axillary (lateral) shoot thinning in the fruiting zone.
Objective 2a

ii Canopy Management

Iowa:

• Data Collected:
  – Time to perform tasks including harvest
  – Canopy light distribution (PAR) & Point Quadrat Analysis (PQA)
  – Yield (# clusters & wt.)
  – Fruit quality indices:
    • °Brix, pH, TA
    • Tartaric & malic acid
<table>
<thead>
<tr>
<th>Treatment</th>
<th>Description</th>
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<tbody>
<tr>
<td>Control</td>
<td></td>
</tr>
<tr>
<td>SP</td>
<td>shoot positioning</td>
</tr>
<tr>
<td>ST</td>
<td>shoot thinning</td>
</tr>
<tr>
<td>LT</td>
<td>lateral thinning</td>
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<tr>
<td>ST + SP</td>
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Iowa Canopy Management Treatments
La Crescent

Control  SP  ST  LT  ST + SP

SP = shoot positioning
ST = shoot thinning
LT = lateral thinning

SP + LT  ST + LT  ST + SP + LT