CUNNINGHAM FARMS
MARYSVILLE, OHIO
Cunningham Farms

- North of Marysville, OH
- 1000 ac corn
- 1600 ac beans
- Sometimes Wheat
- 4th generation family operation
CUNNINGHAM FARMS

Corn Futures, July 2012- December 2013
2015

100 Hops Plants

55 ac Newdale Malting Barley
Newdale Barley

Spring planted barley
50-60 bpa, “good” disease resistance
87% plumps
Available from Seedway, Hall, NY

Seeding
April 1, 2015
55 ac
100 lbs/ac
1 inch deep
Good/wet conditions
Newdale Barley

Emergence
Uneven, too much rain
Wet, cold conditions
Low areas very slow to emerge, but very resilient
Total emergence: 1 month
Fertilizing
April 17, 2015
Dry fertilizer (Ohigro Inc)
45 lbs/ac 46-0-0 (20 lbs actual N)
110 lbs/ac 11-52-0 (12 lbs actual N)
Total of 32 lbs actual N
Newdale Barley

Top Dressing
15 gal/ac 28-0-0 (45 lbs actual N) (77 lbs N total)
Applied on May 20, 2015
Left out 2-4, D
Newdale Barley

Fungicide
Fusarium Head Blight
DON levels <1ppm

Fusarium Head Blight Risk Assessment Tool
Prosaro 6.5 fl oz/ac
Caramba 13.5 fl oz/ac
Folicur 4 fl oz/ac

I sprayed Prosaro @ 5 fl oz/ac twice
Timing is VERY critical!
Application Information
Optimal Application Timing on Barley

Optimal Application Timing on Barley

Early, some florets still in boot

Optimal timing, head emerged (Feeke’s 10.5)

Late, peduncle elongated, long vulnerable period

Peduncle easily visible
## Newdale Barley

### Harvest
- **July 11, 2015**  30% moisture
- **July 23, 2015**  13% moisture

<table>
<thead>
<tr>
<th></th>
<th>Moisture</th>
<th>Test Weight</th>
<th>Protein</th>
<th>DON</th>
<th>Germination</th>
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</thead>
<tbody>
<tr>
<td>Newdale wet</td>
<td>14.8</td>
<td>47.8</td>
<td>10</td>
<td>&gt;5.0</td>
<td>87</td>
</tr>
<tr>
<td>Newdale dry</td>
<td>12.8</td>
<td>46</td>
<td>10.4</td>
<td>3.3</td>
<td>93.5</td>
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</tbody>
</table>
Newdale Barley

Reflections
Spring barley presents more challenges
Fungicide timing CRUCIAL
Waiting to harvest – better results
Barley never follow corn
Tillage of residue
Winter barley, easier planting, better yields
Newdale Barley

Malt House
Food Processing License (ODA)
Output 1 ton/week
50 lb bags
Hope to expand quickly
Malt Barley

Conclusions
Premium product, higher risk, higher reward
NAP insurance (FSA)
Farming a living seed, not grain
Human consumption (DON < 1ppm)
Rain
Rain
Rain
Rain
Great rotational crop, barley straw, double crop beans
Reduces Fall harvest pressure
New, exciting industry in Ohio