Tomato Plot: One 10’ x 100’ plot was established, half irrigated and half dry farmed, to do side-by-side comparisons of grafted and ungrafted tomatoes. Treatments were not replicated. Results and data collected are from single plot observations.

Bean Plot: One 10’ x 100’ plot was prepared the same and planted with Beefy Resilient Grex, which is a dry bean that is a cross Carol Deppe (Fertile Valley Seeds) made between ‘Black Mitla’ tepary bean and ‘Gaucho’ common bean.

Soil type: Woodburn Silt Loam

Soil preparation:
• Flail mowed cover crop (phacelia and some red clover) on 4/24/17 and tilled in two passes cover crop on 5/1/17.
• 3 yards of compost spread from Recology (Aumsville, OR) and forked and tilled in on 5/2/17.
• 5/3/17 one pass with tiller to incorporate compost
• 5/17 two passes with tiller to re-establish dirt mulch
• 5/19 one final pass with tiller right before plant tomatoes and beans

Tomato Plot Treatments
Irrigated: Drip tape with emitters every 12” turned on once a week for 2 hours
• Grafted: 5 plants each of Dirty Girl, Early Girl, and Perfect Rogue grafted onto ‘Emperador,’ a more vigorous all-purpose rootstock, by Log House Plants (Cottage Grove, OR)
• Ungrafted: 5 plants each of Dirty Girl, Early Girl, and Perfect Rogue.

Dry Farmed: No irrigation applied in the field and top 6 inches of soil kept loose for surface protection or dust mulch
• Grafted: 5 plants each of Dirty Girl, Early Girl, and Perfect Rogue grafted onto ‘Emperador,’ a more vigorous all-purpose rootstock, by Log House Plants (Cottage Grove, OR)
• Ungrafted: 5 plants each of Dirty Girl, Early Girl, and Perfect Rogue.
Tomato Yield

Tomatoes were transplanted in the field on May 1, 2017, with a planting density of 20 sq. ft. per plant.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Irrigated or Dry Farmed</th>
<th>Grafted or Standard</th>
<th>Harvest Start Date</th>
<th>Harvest End Date</th>
<th>Yield/Plant (lbs)</th>
<th>Yield/Acre (lbs)</th>
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<tbody>
<tr>
<td>Dirty Girl</td>
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<td>8/12</td>
<td>9/16</td>
<td>10.9</td>
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<td>9/16</td>
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<td>9/16</td>
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<td>24.0</td>
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Oak Creek Tomato Yield per Plant (lbs)
Harvest 8/7 - 9/16
Bean Plot

Beefy Resilient Grex dry farm plot pictured below. From left to right: June 21, July 30, and August 10, 2018

We made multiple single plant selections from this dry farmed plot, choosing the top 5 productive determinate plants. Also made several mass selections to eventually share with the Dry Farming Collaborative to make their own dry farmed selections from including: ultra early, bush, and vining.

Dry Farming Resources

OSU Extension Small Farms Dry Farming Project: http://smallfarms.oregonstate.edu/dry-farm/dry-farming-project


Cascadia Drought Group: https://cascadiadroughtgroup.wordpress.com/dry-farming/


Garrett, A. Common misconceptions and key points about dry farming: Case study of dry farmer with more than 40 years of experience. Oregon Small Farm News. Summer 2014, Vol. IX No. 3.


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