Dark Red Kidney Bean Agronomic Performance in North Dakota

<table>
<thead>
<tr>
<th>Variety</th>
<th>100 Seed Weight (g)</th>
<th>Days to Maturity</th>
<th>Height (cm)</th>
<th>Canning Quality*</th>
<th>CBB^</th>
<th>Root Rot#</th>
<th>White Mold</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND Redbarn</td>
<td>50.4</td>
<td>99</td>
<td>51</td>
<td>3.7</td>
<td>4.2</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>Montcalm</td>
<td>47.2</td>
<td>100</td>
<td>51</td>
<td>4.3</td>
<td>7.9</td>
<td>6.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Redhawk</td>
<td>44.4</td>
<td>95</td>
<td>47</td>
<td>4.7</td>
<td>6.1</td>
<td>6.3</td>
<td>5.8</td>
</tr>
<tr>
<td>Talon</td>
<td>47.2</td>
<td>96</td>
<td>50</td>
<td>4.6</td>
<td>6.1</td>
<td>6.2</td>
<td>NT</td>
</tr>
<tr>
<td>Dynasty</td>
<td>55.2</td>
<td>98</td>
<td>57</td>
<td>NT</td>
<td>7.1</td>
<td>4.7</td>
<td>NT</td>
</tr>
</tbody>
</table>

* Canning quality is a visual score where 1=unacceptable, 2=poor, 3-4=average, 5-6=above average, and 7=excellent.
^ Common Bacterial Blight CIAT scale: 1-3= resistant, 4-6= intermediate, and 7-9= susceptible.
# Root rot based on a visual score taken at the field where 1-3=resistant, 4-6= intermediate, and 7-9=susceptible. NT=Not tested.

ND Redbarn dark red kidney (DRK) bean was released in 2023 by the North Dakota Agricultural Experiment Station. ND Redbarn has shown competitive agronomic performance, including significantly higher yield, compared to other varieties commonly grown in North Dakota. ND Redbarn matures in approximately 99 days and has larger seed size and improved kidney shape. This variety has resistance to bean common mosaic virus (BCMV), intermediate resistance to common bacterial blight (CBB) and root rot, and also tolerance to white mold. Canning quality and seed shape and size are within acceptable commercial ranges.

**Characteristics**

- **Seed Yield**: superior
- **Plant Type**: bush
- **Maturity**: medium
- **BCMV**: resistance
- **White Mold**: tolerance
- **CBB**: intermediate resistance

**Strengths**

- Superior seed yield
- Improved kidney shape
- Intermediate resistance to CBB
- White mold tolerance

**Comments**

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