Rohde is a winter club wheat jointly released by Oregon State University, University of Idaho, and Washington State University in 1993. It is an awned, bronze-chaffed club with excellent yield potential. It has adult plant resistance to stripe rust.

**Recommended Areas**
Rohde, unlike many club wheats, appears to be widely adapted. It has been successfully grown in small and large-scale field plots in low rainfall, high rainfall, and irrigated environments. Rohde is susceptible to strawbreaker footrot. This susceptibility may make it unsuitable for fields with a history of severe footrot problems.

**Agronomic Characteristics**
*Height and lodging resistance.* Rohde is similar in height to newer club wheats like Tres or Hyak, and is significantly shorter than the older clubs like Moro and Faro. It is taller than common wheat varieties like Stephens in high yielding environments, but may exhibit similar height under low yield, lodging conditions. Lodging resistance is superior to that of older club wheats. Under dryland conditions, little or no lodging has been observed. Lodging can occur in high yield environments, especially if fields where soil nitrogen level are excessive.

*MatURITY.* Rohde is similar to Stephen in maturity. It tends to be several days later than Hyak but is slightly earlier than Tres in dryland environments.

*Disease resistance.* Rohde has a good disease resistance profile. It has adult plant resistance to stripe rust. Its level of stripe rust resistance is greater than that of any other currently grown club wheat. It has moderate resistance to *Cephalosporium* stripe and common bunt, and is moderately susceptible to leaf rust, powdery mildew, and *Septoria* leaf blotch. Rohde is susceptible to strawbreaker footrot, and will need to be sprayed with fungicides for footrot control or be grown in fields where footrot has not been a problem.

*Test weight and quality.* Rohde test weights have been significantly better than those of other wheats, both club and club, across environments. This is unusual for a club wheat. A 1-pound test weight advantage is not uncommon. Grain quality (moisture, protein percent, and hardness) is comparable with currently grown club and common wheats. Milling and baking quality is adequate. Flour yield and cake volume/score tends to be lower than that of other club wheats. Crumb quality is acceptable.

*Winter hardiness.* Rohde has a level of winterhardiness similar to that of Lewin. This level of hardiness is adequate to allow production across all Oregon environments.

**Yield**
Rohde has the potential to outyield commonly grown club wheats across environments. It has had yields equivalent to common wheats in many situations. It appears to have broad adaptation and has yielded surprisingly well under high rainfall and irrigated production. With proper management, Rohde has yielded over 100 bushels per acre.

**Development**
Rohde was selected from progeny of the cross Paha/Selection 72//Daws. The initial cross was made by Bob Metzger, a USDA-ARS scientist located at Corvallis. Selection work was done by Chuck Rohde, long-time cereal breeder at the Columbia Basin Agricultural Research Center. Final purification was accomplished by Pamela Zwer, Rohde's successor.

Rohde was tested under the experimental designation OR855. Breeders seed was produced through a head row screening process. Rohde was officially released by Oregon State University in the spring of 1993. The first foundation seed field was planted in fall 1992. Funding for development of Rohde was provided by the OSU Agricultural Experiment Station and the Oregon Wheat Commission.

The name Rohde was selected to recognize Chuck Rohde's 36 years of service to Oregon State University and the cereal industries of Oregon.

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*Russell S. Karow, Extension cereal crop specialist, Corvallis; and Pamela K. Zwer, cereal breeder and assistant professor of crop sciences, Columbia Basin Agricultural Research Center, Pendleton; Oregon State University.*
Table 1. Yield, test weight, and height data for four winter wheat varieties grown at seven eastern Oregon locations in 1989-91.

<table>
<thead>
<tr>
<th>Location</th>
<th>Hyak (bu/A)</th>
<th>Rohde (bu/A)</th>
<th>Stephens (bu/A)</th>
<th>Tres (bu/A)</th>
<th>PLSD (5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arlington</td>
<td>25</td>
<td>27</td>
<td>26</td>
<td>25</td>
<td>NS</td>
</tr>
<tr>
<td>Athena</td>
<td>83</td>
<td>78</td>
<td>90</td>
<td>79</td>
<td>NS</td>
</tr>
<tr>
<td>Heppner</td>
<td>43</td>
<td>42</td>
<td>43</td>
<td>39</td>
<td>NS</td>
</tr>
<tr>
<td>LaGrande</td>
<td>117</td>
<td>111</td>
<td>113</td>
<td>116</td>
<td>NS</td>
</tr>
<tr>
<td>Lexington</td>
<td>42</td>
<td>41</td>
<td>48</td>
<td>40</td>
<td>NS</td>
</tr>
<tr>
<td>Moro</td>
<td>50</td>
<td>51</td>
<td>53</td>
<td>58</td>
<td>NS</td>
</tr>
<tr>
<td>Pendleton</td>
<td>75</td>
<td>72</td>
<td>82</td>
<td>77</td>
<td>NS</td>
</tr>
</tbody>
</table>

7 location average
- Yield (bu/A): 62
- Test Wgt. (lb/bu): 57.8
- Height (in): 32

Table 2. Heading date, height, lodging percent, yield, and test weight for wheat varieties grown over locations and years.

<table>
<thead>
<tr>
<th>Location and year(s)</th>
<th>Hyak</th>
<th>Rohde</th>
<th>Stephens</th>
<th>Tres</th>
<th>PLSD (5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corvallis (1990-91)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Julian heading date</td>
<td>151</td>
<td>158</td>
<td>156</td>
<td>156</td>
<td>1</td>
</tr>
<tr>
<td>Height (in)</td>
<td>46</td>
<td>46</td>
<td>41</td>
<td>41</td>
<td>2</td>
</tr>
<tr>
<td>Lodging percent</td>
<td>4</td>
<td>0</td>
<td>20</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>Yield (bu/A)</td>
<td>87</td>
<td>116</td>
<td>116</td>
<td>116</td>
<td>1</td>
</tr>
<tr>
<td>Test weight (lb/bu)</td>
<td>59.4</td>
<td>62.5</td>
<td>62.5</td>
<td>62.5</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Madras (1992)
- Julian heading date: 148
- Height (in): 34
- Lodging percent: 80
- Yield (bu/A): 70
- Test weight (lb/bu): 59.4

Moro (1992)
- Julian heading date: 133
- Height (in): 52
- Lodging percent: 0
- Yield (bu/A): 61
- Test weight (lb/bu): 59.6

Ontario (1992)
- Julian heading date: —
- Height (in): 44
- Lodging percent: 85
- Yield (bu/A): —
- Test weight (lb/bu): —

Pendleton (1992)
- Julian heading date: 133
- Height (in): 41
- Lodging percent: 14
- Yield (bu/A): 61
- Test weight (lb/bu): 57.3

Western Regional Trials
- bu/A 1988 (16 locations): 79
- bu/A 1989 (7 locations): 90
- bu/A 1990 (11 locations): 95

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