

# Enhancing Grain Protein in Wheat and Barley

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# High Quality Wheat Means High Grain Protein

- Hard White Spring Wheat
  - Hard Red Spring Wheat
  - Durum Wheat
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- The background features several decorative elements consisting of concentric circles in shades of blue, resembling ripples in water, located in the lower right and bottom center areas of the slide.

<b>Nitrogen Treatment</b>	<b>Grain Yield</b>	<b>Grain Protein</b>
	Bu/acre	%
<b><u>Jerome, HRS Wheat</u></b>		
0	98.7	11.2 d
0	87.2	11.3 d
30	106.0	12.0 bc
60	109.3	12.9 bc
<b>Average</b>	<b>100.3</b>	<b>11.9</b>
<b><u>Snowcrest, HWS Wheat</u></b>		
0	70.6	13.2 bc
0	68.3	12.6 bc
30	83.0	13.8 ab
60	75.2	14.1 a
<b>Average</b>	<b>74.3</b>	<b>13.4</b>
<b>Test Average</b>	<b>87.3</b>	<b>12.6</b>
<b>LSD, 10%</b>	<b>11.8</b>	<b>0.73</b>

<b>Nitrogen Treatment</b>	<b>Grain Yield</b>	<b>Grain Protein</b>
	Bu/acre	%
<b><u>Nora, Hard Red Spring Wheat</u></b>		
<b>0</b>	<b>97.1</b>	<b>10.8 b</b>
<b>30</b>	<b>96.7</b>	<b>11.5 ab</b>
<b>60</b>	<b>104.1</b>	<b>12.3 a</b>
<b>Average</b>	<b>99.3</b>	<b>11.5</b>
<b>LSD, 10%</b>	<b>NS</b>	<b>0.92</b>

<b>Nitrogen Treatment</b>	<b>Grain Yield</b>	<b>Grain Protein</b>
	Bu/acre	%
<b><u>Nora, Hard Red Spring Wheat</u></b>		
0	118.4	11.2
30	113.0	11.8
60	115.4	13.2
<b>Average</b>	<b>115.6</b>	<b>12.1</b>
<b>LSD, 10%</b>	<b>NS</b>	<b>0.40</b>
<b><u>WB881, Durum Wheat</u></b>		
0	95.6	11.8
30	81.9	13.1
60	86.4	14.1
<b>Average</b>	<b>88.0</b>	<b>13.0</b>
<b>LSD, 10%</b>	<b>NS</b>	<b>0.34</b>

**$^{15}\text{N}$  recovery grain by Jerome over 30%**

**$^{15}\text{N}$  recovery grain by Snow Crest about 20%**

**$^{15}\text{N}$  total recovery by Jerome about 50%**

**$^{15}\text{N}$  total recovery by Snow Crest ~ 30%**

