

Table 12. HARD WINTER WHEAT: Yield Performance under Sawfly Pressure (1997-2002)

Variety	Yield (bushels per acre)										Average 10 Tests
	Havre 1997	Big Sandy 1997	The Knees 1997	Highwood 1997	Broadview 1997	Loma 1999	Loma 2000	Loma 2001	The Knees 2001	Ft Benton 2002	
<b>Bighorn (P)+</b>	49.6	<b>40.8*</b>	<b>37.5*</b>	<b>55.0*</b>	25.2	37.3	34.2	10.7	20.2	31.0	<b>34.2*</b>
<b>BigSky ++</b>	45.5	<b>46.1*</b>	<b>44.9**</b>	<b>52.4*</b>	<b>29.4*</b>	<b>39.6*</b>	38.5	11.4	18.0	31.3	<b>35.7*</b>
<b>CDC Falcon (P) +</b>										32.4	
<b>Golden Spike (HWW) + <sup>1/</sup></b>								9.1	18.9	30.6	
Judith	47.7	38.4	<b>38.2*</b>	<b>50.6*</b>	23.9	<b>43.7*</b>	36.1	<b>12.4*</b>	19.5	30.3	<b>34.1*</b>
McGuire	39.1	<b>40.4*</b>	35.4	<b>50.8*</b>	22.3	34.6	37.3	11.5	20.6	26.3	31.8
Morgan (P)+	49.6					<b>40.6*</b>	37.2	10.9	21.4	30.5	
MT9951										35.3	
MT9982								12.0	23.4	28.3	
MTR9997										32.7	
MTS0023										33.7	
MTS0031										31.8	
Neeley	42.6	<b>41.7*</b>	34.3	<b>51.1*</b>	<b>27.3*</b>	34.9	39.5	<b>12.3*</b>	16.5	29.7	33.0
Norstar	41.3	<b>47.8*</b>	34.4	<b>45.2</b>	25.5	35.8	36.5	9.2	18.0	28.1	32.2
Nuplains (HWW) +							37.6	8.8	22.0	33.3	
NuSky (HWW) ++	<b>52.7*</b>					35.8	27.5	<b>13.2*</b>	19.3	32.5	
NuWest (HWW) +	<b>49.8*</b>	<b>41.6*</b>	<b>43.5*</b>	<b>48.8*</b>	<b>26.3*</b>	32.8	34.0	8.8	20.7	31.7	33.8
Paul ++							33.5	8.5	19.6	30.3	
Promontory + <sup>1/</sup>	43.1	33.0	34.8	<b>55.2*</b>	20.6	35.8	<b>39.7*</b>	9.3	16.2	34.4	32.2
Rampart <sup>2/</sup>	45.2	<b>47.9*</b>	<b>39.5*</b>	<b>52.3*</b>	<b>28.8*</b>	35.9	<b>42.7*</b>	<b>16.4**</b>	23.0	-	<b>(36.9)</b>
Ransom +								9.2	20.5	31.2	
Rocky (P)	<b>50.2*</b>	<b>43.8*</b>	<b>41.7*</b>	<b>55.9**</b>	24.2	33.2	<b>47.0**</b>	<b>13.3*</b>	21.2	37.1	<b>36.8**</b>
Tiber	47.1	36.9	<b>42.8*</b>	<b>54.5*</b>	<b>26.4*</b>	36.7	<b>44.9*</b>	<b>13.1*</b>	18.3	32.6	<b>35.3*</b>
Vanguard	48.3	<b>45.9*</b>	<b>41.4*</b>	<b>50.5*</b>	<b>31.0**</b>	32.6	<b>41.4*</b>	<b>15.7*</b>	24.4	33.7	<b>36.5*</b>
<b>Average</b>	<b>46.5</b>	<b>42.5</b>	<b>38.4</b>	<b>51.8</b>	<b>26.2</b>	<b>35.8</b>	<b>38.6</b>	<b>10.7</b>	<b>20.1</b>	<b>31.6</b>	<b>34.3</b>
<b>LSD (0.05)</b>	<b>7.3</b>	<b>9.0</b>	<b>7.3</b>	<b>7.6</b>	<b>5.7</b>	<b>6.9</b>	<b>7.4</b>	<b>4.2</b>	<b>ns</b>	<b>ns</b>	<b>2.7</b>
<b>C.V.</b>	<b>9.4</b>	<b>13.2</b>	<b>11.6</b>	<b>9.0</b>	<b>13.8</b>	<b>11.6</b>	<b>11.7</b>	<b>23.6</b>	<b>13.6</b>	<b>10.3</b>	<b>8.9</b>

\*\* = indicates highest yielding variety within a column

ns = no significant difference between varieties at P <= 0.05

\* = indicates varieties yielding equal to highest yielding variety within a column based on Fisher's protected LSD (p=0.05)

(P) = Private Variety; + = Protected Variety; ++ = PVP Pending

1/ = Dwarf Smut Resistant; (HWW) = Hard White Winter Wheat

2/ = Rampart not planted in 2002

Table 13. Precipitation Data for Crop Year 2001-2002 (inches)

Agricultural Research Center	Sept. 2001	Oct. 2001	Nov. 2001	Dec. 2001	Jan. 2002	Feb. 2002	Mar. 2002	Apr. 2002	May 2002	June 2002	July 2002	Aug 2002	Total
<b>Western Triangle, Conrad</b>	<b>0.52</b>	<b>0.03</b>	<b>0.35</b>	<b>0.01</b>	<b>0.11</b>	<b>0.13</b>	<b>0.48</b>	<b>0.33</b>	<b>1.29</b>	<b>5.86</b>	<b>1.36</b>	<b>3.03</b>	<b>13.50</b>
					1984-2002 Average = 11.62								
Northern, Havre	0.34	0.38	0.04	0.04	0.27	0.33	0.59	0.22	1.77	4.62	2.26	2.46	13.29
					1916-2002 Average = 12.00								
Northwestern, KalisPELL	0.32	1.80	1.44	0.59	1.21	1.66	1.48	0.91	2.72	2.39	1.45	1.44	17.41
					1949-2002 Average = 19.79								
Central, Moccasin	1.87	0.45	0.07	0.03	0.57	0.23	0.43	0.31	1.62	2.88	2.68	4.59	15.73
					1909-2002 Average = 15.42								
Southern, Huntley	0.74	0.84	0.54	0.25	0.62	0.15	0.35	1.70	1.52	1.24	0.56	0.47	8.98
					1971-2000 Average = 14.17								
Northeastern, Sidney	1.16	0.06	0.44	0.24	0.50	0.80	0.80	1.61	3.19	1.81	1.32	0.61	11.82
					1949-2002 Average = 13.89								
Williston, N. Dakota	0.27	0.37	0.04	0.58	0.56	0.44	0.57	0.75	1.37	3.86	2.34	1.33	12.48
					1957-2002 Average = 14.58								
Post Farm, Bozeman	0.44	1.48	0.14	0.58	0.90	0.41	0.31	0.75	3.61	3.63	0.65	0.68	13.58
					1958-2002 Average = 16.09								