

## **2006 VARIETAL RECOMMENDATION**

### **JAGALENE**

AgriPro requests that “Jagalene” hard red winter wheat be considered for variety recommendation in the state of Montana. We move that Jagalene be recommended for all crop reporting districts.

Jagalene was developed and released to AgriPro Associates in the fall of 2002 and PVP was issued in 2002. Certified seed was available to all growers in 2003. It was developed from the cross “Abilene/Jagger”. Jagalene is a hollow-stemmed hard red winter variety. It is broadly adapted across the northern plains.

Jagalene has been tested in Montana Intrastate Trials during the 2003 through 2005 seasons. It has performed very well statewide compared to the predominant hard red winter varieties of Montana (24 station years, Table 1). Jagalene has excellent test weight ranking higher than all checks. Jagalene is a semi-dwarf with height shorter than all checks except CDC Falcon (Table 2). Its lodging resistance is very good. It has early heading, nearly 6 days earlier than Neeley and earlier than all checks. Its winterhardiness levels (similar to Scout 66) would be considered average to below average for along the northern areas of Montana.

The disease resistance of Jagalene has been well documented in the Central Plains. It has excellent general disease resistance, including the entire soil virus complex, stem rust, stripe rust, both tan spot and septoria. It has good tolerance to both WSMV and BYDV.

The protein of Jagalene is average compared to the checks. Quality data from 2003 and 2004 Montana Intrastate Trials (Table 3) show that Jagalene has excellent milling and very good baking characteristics.

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**TABLE 1. 2003-5 MT INTRASTATE W. WHEAT TRIAL DATA OF JAGALENE COMPARED TO CHECK VARIETIES - YIELD, T. WEIGHT AND PROTEIN**

**2003-2005 Bozeman - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	110.5	105.1	<b>103.7*</b>	<b>62.2**</b>	<b>63.3*</b>	<b>62.8*</b>	14.2	14.2	14.1
CDC Falcon	98.6	111.4	<b>109.0*</b>	57.4	60.3	59.4	14.7	13.3	13.3
Morgan	99.2	105.0	100.7	58.9	60.5	59.8	14.3	13.6	13.8
Neeley	103.2	115.8	<b>109.5*</b>	59.9	61.8	60.9	15.1	13.8	<b>14.2*</b>
Promontory	107.7	118.7	<b>113.9*</b>	<b>62.1*</b>	<b>63.7**</b>	<b>52.8**</b>	13.2	12.6	12.9
Pryor	96.6	117.1	<b>111.4*</b>	57.2	60.2	58.9	14.9	13.4	13.6
Rampart	96.2	96.4	90.5	60.5	61.8	61.0	15.9	14.9	<b>14.9*</b>
Rocky	104.6	111.9	<b>106.7*</b>	60.7	<b>62.5*</b>	<b>61.7*</b>	14.3	13.4	13.6
Tiber	94.7	106.6	102.6	61.0	<b>62.5*</b>	61.6	15.1	14.1	<b>14.5*</b>
Average	103.7	111.0	106.1	59.4	61.2	60.8	14.5	13.6	13.9
LSD (0.05)	9.3	ns	15.0	0.7	1.7	1.1		ns	0.8
C.V.	5.3	16.8	15.0	0.6	1.3	1.1		4.1	3.6

**2003-2005 Conrad - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	82.6	75.7	<b>71.9*</b>	64.7	<b>64.8*</b>	<b>64.8*</b>	14.0	<b>13.6*</b>	<b>13.9*</b>
CDC Falcon	84.4	78.2	<b>75.1*</b>	63.6	<b>63.7*</b>	63.4	12.7	12.7	12.9
Morgan	83.4	75.7	<b>71.0*</b>	62.9	62.8	61.9	13.1	12.3	12.8
Neeley	82.4	76.4	<b>72.3*</b>	62.2	62.5	62.1	13.2	12.7	13.0
Promontory	<b>91.5*</b>	78.2	<b>72.8*</b>	64.2	<b>63.7*</b>	63.9	12.7	12.8	12.8
Pryor	<b>96.9*</b>	<b>84.5*</b>	<b>76.8*</b>	64.3	62.9	61.9	12.1	12.0	12.4
Rampart	69.9	64.9	62.5	63.2	62.9	62.5	14.5	<b>14.4**</b>	<b>14.5**</b>
Rocky	84.8	79.6	<b>75.5*</b>	64.4	<b>64.1*</b>	<b>64.1*</b>	12.6	11.8	12.5
Tiber	79.4	73.2	68.2	63.0	62.5	62.3	13.3	13.2	13.6
Average	84.3	78.0	72.6	62.7	62.3	62.6	13.3	12.7	13.1
LSD (0.05)	10.4	9.9	7.7		1.7	1.2		1.1	0.8
C.V.	7.2	10.8	11.2		1.4	1.2		4.1	3.8

**2003-2005 Havre - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	59.5	<b>63.2*</b>	49.7	<b>62.5*</b>	<b>62.7**</b>	<b>62.0*</b>	12.7	13.2	<b>14.1*</b>
CDC Falcon	<b>63.7*</b>	<b>65.8*</b>	<b>54.0*</b>	60.7	60.4	60.3	11.4	12.0	13.2
Morgan	46.4	51.1	43.0	58.5	58.4	59.0	14.3	14.2	<b>15.0*</b>
Neeley	50.9	<b>60.1*</b>	46.8	<b>61.1*</b>	60.0	60.4	14.0	14.0	<b>14.5*</b>
Promontory	45.9	56.1	47.4	<b>61.6*</b>	<b>61.4*</b>	<b>61.4*</b>	13.0	13.5	13.9
Pryor	<b>64.3*</b>	<b>68.3*</b>	<b>58.1**</b>	59.1	59.0	60.0	13.0	13.3	14.0
Rampart	59.2	<b>61.9*</b>	<b>52.0*</b>	60.3	59.9	60.3	13.7	14.7	<b>15.1*</b>
Rocky	59.8	<b>67.3*</b>	<b>54.1*</b>	<b>62.0*</b>	<b>62.0*</b>	<b>61.9*</b>	12.2	11.9	12.9
Tiber	48.0	57.3	47.1	60.9	60.4	60.8	12.7	13.5	<b>14.3*</b>
Average	55.9	60.7	50.5	60.2	59.7	60.5	12.9	13.3	14.1
LSD (0.05)	12.4	9.8	6.5	1.4	1.6	1.4		ns	1.1
C.V.	12.6	13.8	13.6	1.3	1.3	1.4		6.8	4.9

**TABLE 1. 2003-5 MT INTRASTATE W. WHEAT TRIAL DATA OF JAGALENE COMPARED TO CHECK VARIETIES - YIELD, T. WEIGHT AND PROTEIN (cont'd)**

**2003-2005 Huntley - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	<b>73.5*</b>	38.6	63.6	62.4	58.2	60.0	10.5	14.3	14.1
CDC Falcon	<b>72.6*</b>	41.5	57.9	59.9	59.1	59.1	12.1	14.0	14.0
Morgan	67.8	39.5	52.9	60.8	59.9	59.9	11.5	13.8	13.9
Neeley	67.8	39.4	56.8	61.5	59.9	60.0	11.1	13.7	14.2
Promontory	<b>71.7*</b>	37.5	54.3	<b>62.9*</b>	58.1	59.7	10.2	13.8	14.1
Pryor	<b>77.6**</b>	45.9	58.0	60.6	60.0	59.8	9.4	12.6	13.4
Rampart	57.4	35.0	48.5	60.8	60.8	61.2	11.7	14.1	14.7
Rocky	64.9	35.6	58.4	60.9	59.7	60.8	10.5	14.0	14.0
Tiber	58.7	35.5	50.0	60.4	60.1	61.0	13.4	14.9	14.9
Average	66.4	38.1	56.0	60.3	59.4	60.3	11.2	14.0	14.1
LSD (0.05)	6.5	ns	ns	1.3	ns	ns		ns	ns
C.V.	6.1	23.9	23.0	1.2	3.3	2.8		7.3	7.7

**2003-2005 Kalispell - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	<b>121.8*</b>	<b>118.0*</b>	<b>99.4*</b>	62.8	63.0	63.4	12.4	13.1	<b>13.4*</b>
CDC Falcon	70.0	<b>92.9*</b>	78.6	54.3	57.5	58.4	11.5	11.9	12.1
Morgan	34.4	68.7	64.0	48.7	54.5	56.6	12.9	12.8	<b>12.8*</b>
Neeley	27.4	68.6	67.2	43.8	53.0	55.9	12.7	12.5	<b>12.8*</b>
Promontory	<b>130.7**</b>	<b>126.2*</b>	<b>103.8*</b>	61.6	62.9	62.9	11.1	11.6	12.3
Pryor	54.7	86.5	<b>79.7*</b>	49.7	55.3	56.6	12.3	12.1	12.4
Rampart	93.4	<b>97.5*</b>	<b>81.1*</b>	63.8	62.2	62.1	12.6	13.3	<b>13.5**</b>
Rocky	65.9	<b>91.3*</b>	<b>81.1*</b>	61.8	62.0	62.3	12.8	12.8	<b>12.9*</b>
Tiber	74.9	<b>92.1*</b>	74.8	54.1	58.2	59.4	12.2	12.4	<b>13.0*</b>
Average	78.1	93.4	80.3	55.9	58.0	59.4	12.3	12.5	12.8
LSD (0.05)	10.9	41.8	32.2		ns	ns		ns	0.9
C.V.	13.7	38.3	42.4		8.6	7.2		5.2	4.5

**2003-2005 Moccasin - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	43.9	45.9	<b>47.9*</b>	<b>59.8*</b>	<b>60.3*</b>	<b>60.1**</b>	14.7	14.1	14.3
CDC Falcon	39.0	<b>47.1*</b>	<b>45.4*</b>	54.9	56.5	55.9	16.2	15.2	15.4
Morgan	37.7	44.6	43.0	56.1	57.2	56.8	15.5	14.6	14.5
Neeley	35.2	44.1	42.8	53.5	55.6	55.3	16.6	15.1	15.1
Promontory	42.8	<b>50.3*</b>	<b>49.3*</b>	57.0	58.3	57.8	16.7	15.2	15.3
Pryor	42.5	<b>50.9*</b>	<b>49.0*</b>	54.2	56.6	56.1	17.5	15.6	15.5
Rampart	34.9	40.4	40.4	56.1	56.2	56.5	18.4	16.2	16.2
Rocky	37.7	44.2	44.0	57.2	58.4	57.7	15.3	14.3	14.8
Tiber	35.1	42.6	41.0	55.7	57.1	56.8	16.5	15.3	15.3
Average	39.0	45.4	44.3	55.9	57.1	56.9	16.2	15.0	15.2
LSD (0.05)	4.2	7.3	6.0	1.8	2.3	1.6		ns	ns
C.V.	6.4	13.7	14.4	1.6	2.0	1.7		5.0	4.7

**TABLE 1. 2003-5 MT INTRASTATE W. WHEAT TRIAL DATA OF JAGALENE COMPARED TO CHECK VARIETIES - YIELD, T. WEIGHT AND PROTEIN (cont'd)**

**2003-2005 Sidney - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	47.0	45.1	51.7	<b>63.5*</b>	<b>62.7**</b>	<b>62.3**</b>	11.9	13.0	<b>13.4*</b>
CDC Falcon	<b>51.8*</b>	<b>55.3*</b>	<b>59.1*</b>	62.0	60.8	61.6	9.8	11.8	11.6
Morgan	<b>51.1*</b>	<b>54.2*</b>	<b>60.2*</b>	62.2	60.5	61.0	8.8	11.7	11.7
Neeley	46.8	<b>52.3*</b>	58.1	62.0	61.1	61.7	9.8	11.7	11.6
Promontory	39.4	47.0	55.6	62.8	<b>61.8*</b>	<b>62.8*</b>	9.8	12.0	12.2
Pryor	<b>57.1**</b>	<b>62.9**</b>	<b>65.9**</b>	61.3	60.8	61.1	8.0	10.8	10.9
Rampart	39.9	42.4	46.0	61.8	60.8	61.3	10.6	13.0	<b>13.6**</b>
Rocky	47.4	<b>52.8*</b>	<b>58.7*</b>	61.5	61.2	62.0	8.6	11.0	11.1
Tiber	36.5	46.6	51.7	62.5	<b>61.8*</b>	62.2	10.9	12.8	<b>13.1*</b>
Average	46.1	50.9	55.4	61.3	60.6	61.5	9.6	11.8	12.1
LSD (0.05)	8.5	11.2	7.5	0.7	1.2	1.0		ns	1.1
C.V.	10.6	18.7	14.3	0.7	1.0	1.0		5.6	5.4

**2003-2005 Williston - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
		2 yr	3 yr		2 yr	3 yr		2 yr	3 yr
<b>Jagalene</b>	61.3	44.1	47.5	<b>63.3*</b>	<b>63.1**</b>	<b>63.5**</b>	12.7	13.3	13.8
CDC Falcon	65.4	<b>51.1*</b>	54.3	61.7	60.9	61.4	12.4	12.5	12.8
Morgan	<b>71.2**</b>	<b>62.0**</b>	<b>63.8**</b>	61.5	60.8	61.0	13.6	13.8	13.7
Neeley	57.8	49.3	<b>55.9*</b>	61.2	60.8	61.3	13.7	13.9	13.8
Promontory	51.8	35.5	44.8	62.3	61.6	62.7	12.6	13.1	13.3
Pryor	62.6	48.3	52.4	60.6	59.8	60.1	12.2	13.0	13.1
Rampart	53.3	34.8	39.0	60.9	60.1	60.5	14.3	<b>14.7**</b>	<b>14.9**</b>
Rocky	60.3	43.5	48.1	62.4	61.5	62.1	13.4	13.3	13.4
Tiber	56.2	47.6	51.9	62.6	<b>62.0*</b>	62.2	14.2	<b>14.4*</b>	<b>14.5*</b>
Average	59.4	47.1	51.0	61.2	60.5	61.5	13.1	13.4	13.7
LSD (0.05)	5.7	12.4	8.8	1.2	1.1	0.8		0.8	0.7
C.V.	5.4	22.4	18.3	1.0	0.9	0.7		2.8	3.2

**2003-2005 Combined Locations - Yield, Test Weight and Protein Summary**

Cultivar/Line	Grain Yield (bushels/acre) <sup>1/</sup>			Test Weight (lb/bu)			Protein (%)		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
location-years	8	16	24	8	16	24	8	16	24
<b>Jagalene</b>	<b>75.1*</b>	67.0	66.9	<b>62.7**</b>	<b>62.2*</b>	<b>62.5*</b>	12.9	13.6	13.9
<b>CDC Falcon</b>	<b>68.4*</b>	67.9	66.7	59.3	59.9	59.9	12.6	12.9	13.2
<b>Morgan</b>	61.5	62.6	62.3	58.7	59.3	59.5	13.0	13.3	13.5
<b>Neeley</b>	58.0	62.6	63.7	58.2	59.3	59.7	13.3	13.4	13.7
<b>Promontory</b>	<b>72.6*</b>	<b>68.7*</b>	67.8	<b>61.8*</b>	<b>61.4*</b>	<b>61.7*</b>	12.4	13.0	13.3
<b>Pryor</b>	<b>68.4*</b>	<b>70.6*</b>	68.9	58.4	59.3	59.3	12.4	12.8	13.2
<b>Rampart</b>	62.7	59.2	57.5	<b>60.9*</b>	60.6	60.7	<b>14.0*</b>	<b>14.4**</b>	<b>14.7**</b>
<b>Rocky</b>	<b>65.6*</b>	65.8	65.8	<b>61.4*</b>	<b>61.4*</b>	61.6	12.5	12.8	13.2
<b>Tiber</b>	60.7	62.7	61.4	60.0	60.6	60.8	<b>13.5*</b>	13.8	14.1
<b>Average</b>	<b>66.6</b>	<b>65.6</b>	<b>64.5</b>	<b>59.6</b>	<b>59.8</b>	<b>60.4</b>	<b>12.9</b>	<b>13.3</b>	<b>13.6</b>
<b>LSD (0.05)</b>	<b>13.0</b>	<b>7.9</b>	<b>5.5</b>	<b>2.5</b>	<b>1.5</b>	<b>1.0</b>	<b>0.7</b>	<b>0.5</b>	<b>0.4</b>
<b>C.V.</b>	<b>34.3</b>	<b>29.9</b>	<b>26.2</b>	<b>4.3</b>	<b>3.6</b>	<b>3.0</b>	<b>5.5</b>	<b>5.4</b>	<b>5.0</b>

\*\* = indicates highest value within a column

**TABLE 2. 2003-5 MT INTRASTATE W. WHEAT TRIAL - MISC DATA**

**2003-2005 Combined Locations - Winter Survival and Associated Yield**

Locations: 4 years at both Sidney and Williston, Conrad and Moccasin in 2004 = 10 locations

Cultivar/Line	Winter Survival (%)			Yield <sup>1/</sup> under Winterkill		
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005
location-years	2	6	8	2	6	8
<b>Jagalene</b>	<b>77.0*</b>	56.6	54.1	54.9	49.1	51.7
CDC Falcon	<b>86.4*</b>	<b>64.2*</b>	64.3	<b>59.8*</b>	<b>56.6*</b>	<b>58.4*</b>
Morgan	<b>91.2*</b>	<b>66.8*</b>	<b>69.0*</b>	<b>62.2*</b>	<b>58.7*</b>	<b>61.5*</b>
Neeley	71.8	57.1	57.7	52.6	54.6	<b>58.3*</b>
Promontory	59.2	47.7	50.6	44.6	47.8	52.8
Pryor	<b>83.3*</b>	<b>60.8*</b>	57.6	58.0	<b>59.0*</b>	<b>60.9*</b>
Rampart	64.0	50.0	46.3	44.7	43.4	45.1
Rocky	<b>83.6*</b>	<b>61.7*</b>	61.6	53.6	53.1	55.8
Tiber	75.7	58.6	59.8	46.0	50.7	53.3
Average	76.0	57.8	58.5	52.8	53.2	55.3
LSD (0.05)	15.9	8.3	7.3	6.8	6.6	5.3
C.V.	10.4	12.6	12.7	9.8	11.9	10.3

<sup>1/</sup>LSD for Yield based on genotype\*environment mean square.

**2002-2005 Combined Locations - Heading Date, Height, and Lodging**

Cultivar/Line	Heading Date (Julian)			Plant Height (in)			Lodging Score (0-9)	
	2005	2004-2005	2003-2005	2005	2004-2005	2003-2005	2005	2004-2005
location-years	8	15	23	8	16	24	2	3
<b>Jagalene</b>	160.0	158.6	158.4	33.7	30.9	30.9	0.0	0.2
CDC Falcon	161.8	164.1	161.3	32.1	30.8	30.5	0.0	0.0
Morgan	165.2	164.7	164.7	37.9	36.0	35.5	0.4	1.1
Neeley	165.4	164.3	164.2	37.5	35.2	35.4	1.0	0.7
Promontory	162.7	161.6	161.3	34.4	32.6	32.8	0.1	0.2
Pryor	163.5	163.2	163.7	32.4	31.4	31.4	0.1	0.1
Rampart	163.3	162.3	162.6	37.6	35.1	34.8	3.9	2.6
Rocky	161.2	160.1	160.2	39.0	36.7	36.7	4.2	2.8
Tiber	164.6	164.0	164.0	41.5	38.6	38.4	2.0	1.3
Average	162.8	162.5	161.8	36.0	34.0	34.1	0.8	1.1
LSD (0.05)	1.0	1.0	0.8	1.5	1.1	0.9	2.2	2.2
C.V.	0.6	0.9	0.8	4.3	4.7	4.7	137	140

**2003-2005 Combined Locations - Coleoptile Length**

Cultivar/Line	Coleoptile Length (in)		
	2005	2004-2005	2003-2005
location-years	1	2	3
<b>Jagalene</b>	2.9	2.8	2.8
CDC Falcon	2.6	2.5	2.6
Morgan	2.2	2.2	2.2
Neeley	3.5	3.3	3.2
Promontory	2.5	2.4	2.5
Pryor	2.6	2.5	2.5
Rampart	<b>4.2*</b>	<b>3.9**</b>	<b>4.0**</b>
Rocky	3.4	3.2	3.2
Tiber	3.7	3.3	3.4
Average	3.0	2.8	2.9
LSD (0.05)	0.2	0.3	0.2
C.V.	2.8	4.9	4.1

\*\* = indicates highest value within a column

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

**TABLE 3. 2003-4 MT INTRASTATE W. WHEAT QUALITY DATA**

ID	Grain				Flour				Flour color					
	Hardness		Protein %		Yield %		Protein %		L*		a*		b*	
	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr
<b>Jagalene</b>	<b>73.7*</b>	<b>77.8*</b>	<b>13.7*</b>	14.2	<b>69.3*</b>	67.4	11.9	12.3	90.0	90.0	-1.25	-1.30	11.5	11.2
CDC Falcon	65.3	69.6	12.4	13.5	65.8	64.4	11.0	11.8	90.5	90.3	-1.05	-1.12	9.8	9.9
Jerry	64.6	67.8	12.9	14.1	69.2	67.7	11.3	12.3	90.4	90.4	-1.42	-1.48	11.3	11.2
Millenium	70.6	74.8	13.4	14.0	<b>69.3*</b>	67.6	11.6	12.0	90.1	90.2	-1.15	-1.24	10.3	10.1
Promontory	<b>73.5*</b>	<b>76.7*</b>	12.6	13.4	<b>69.9*</b>	66.7	10.9	11.6	90.0	90.0	-1.74	-1.82	13.7	13.3
Pryor	<b>74.9*</b>	<b>76.5*</b>	12.5	13.6	68.1	66.7	11.0	11.8	90.1	90.1	-1.35	-1.31	11.4	11.0
Rampart	<b>72.8*</b>	<b>76.7*</b>	<b>14.5**</b>	<b>15.0**</b>	68.4	66.7	<b>12.9**</b>	<b>13.3**</b>	90.1	90.1	-1.58	-1.71	12.5	12.4
Average	71.8	74.2	13.0	13.9	68.3	66.9	11.3	12.0	90.4	90.3	-1.39	-1.43	11.5	11.2
LSD (0.05)	4.1	3.4	1.0	0.6	1.7	1.2	0.9	0.5	0.4	0.2	0.11	0.10	0.5	0.4
C.V.	4.0	4.7	5.6	4.3	1.7	1.9	5.4	4.4	0.3	0.3	5.9	7.0	3.3	3.6

ID	Mixograph Data						Test Bake Data							
	Flr Ash (%)		Tolerance		Mix Time		Absorption		Mix time		Absorption		L. Volume	
			Rating		min.		%		min.		%		cc.	
	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr	2004	2yr
<b>Jagalene</b>	0.40	0.38	4.3	3.6	3.7	3.8	<b>60.9*</b>	<b>61.6*</b>	4.8	5.5	70.8	71.7	<b>1075*</b>	<b>1075*</b>
CDC Falcon	0.38	0.39	3.8	3.8	4.7	4.5	58.5	60.6	8.0	7.5	69.3	70.9	1025	<b>1063*</b>
Jerry	0.37	0.38	4.8	5.1	4.3	4.6	59.9	<b>62.0*</b>	6.4	7.6	70.0	72.2	994	1043
Millenium	0.37	<b>0.36*</b>	3.5	3.1	3.3	3.5	60.2	61.0	4.3	4.3	69.9	70.8	978	1002
Promontory	0.36	<b>0.36*</b>	4.3	4.3	4.3	4.3	59.5	60.4	6.0	5.9	70.4	71.1	1030	1069*
Pryor	0.38	0.38	3.0	3.0	3.2	3.4	58.5	60.3	4.6	4.7	68.3	69.9	981	1030
Rampart	0.38	0.38	4.3	3.9	4.8	4.6	<b>62.6**</b>	<b>62.6**</b>	9.6	8.8	<b>73.0*</b>	<b>73.2*</b>	<b>1133**</b>	<b>1098*</b>
Average	0.37	0.37	4.5	4.3	4.7	4.6	59.9	61.1	7.5	7.2	70.6	71.8	1026	1056
LSD (0.05)	0.03	0.03	0.9	0.7	0.9	0.7	2.1	1.4	2.2	1.6	2.2	1.5	77	46
C.V.	6.4	7.1	14.3	16.9	13.5	14.6	2.6	2.2	20.5	22.4	2.2	2.1	5.0	4.5