

PROJECT TITLE: Early Yield Spring Barley Evaluation

PROJECT LEADERS: Bob Stougaard and Todd Keener, Kalispell, MT.  
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OBJECTIVE:  
To evaluate spring barley varieties for yield, quality, and improved resistance to foliar diseases in consideration for future release to Montana grain growers.

RESULTS:  
Excellent yields and good test weights were obtained from many experimental cultivars. Percent plump readings were good but slightly less than the previous season. Favorable weather conditions contributed to good barley quality except for high moisture in June which caused light to moderate lodging. Disease levels were low through out the nursery.

SUMMARY:  
The majority of entries in the Early Yield spring barley nursery yielded above 100 bu/A and had good test weights.

FUTURE PLANS:  
Disease resistant varieties will continue to be evaluated at Kalispell through cooperative variety testing.

Table 1. Agronomic data from the Early Yield Spring Barley Nursery grown on the Northwestern Agricultural Research Center in Kalispell, MT. Planted: April 18, 1995 Harvested: September 1, 1995

VARIETY	YIELD BU/A	TEST WT LB/BU	PERCENT PLUMP	HEIGHT INCHES	HEADING DATE	LOGGING-INDEX
CI 15229 Steptoe	154.07	47.80	95.00	34.12	168.00	2.23
MT940067 MT 81143/Blenheim	141.99	54.20	95.00	35.43	176.33	5.00
MT940121 MT 81143/Gimpel	135.95	53.60	98.00	35.43	177.00	.00
MT940099 MT 81143/Camilot	132.92	53.07	91.00	31.50	176.33	.00
MT940082 MT 81143/Blenheim	128.90	52.67	94.00	31.50	171.33	16.67
MT940005 Harrington/MT851088	128.90	48.90	88.00	35.43	172.67	21.10
EBC 158 Blenheim	127.89	53.00	92.00	28.87	178.67	.00
NS 78054 Baronesse	126.88	51.97	95.00	31.50	175.00	7.40
MT940233 MT870056/Robust	125.88	47.70	97.00	33.46	168.00	2.97
MT940096 MT 81143/Camilot	125.88	52.50	95.00	35.43	172.33	.00
CI 15478 Klages	125.88	51.97	87.00	37.40	178.00	.73
MT940100 MT 81143/Camilot	124.87	51.80	88.00	34.12	174.67	16.63
MT940049 MT 81143/Blenheim	124.87	53.37	90.00	32.15	176.33	2.23
MT940197 MT860326/Clivia	124.87	52.43	88.00	34.12	176.67	1.47
SK 76333 Harrington	123.86	52.30	94.00	35.43	175.67	2.77
MT940087 MT 81143/Blenheim	123.86	52.03	97.00	36.09	174.33	5.93
MT940081 MT 81143/Blenheim	123.86	55.03	96.00	34.78	174.00	.00
MT940052 MT 81143/Blenheim	123.86	53.63	91.00	34.78	176.00	.00
MT940106 MT 81143/Gimpel	122.85	51.80	78.00	32.15	172.67	.00
MT940169 MT851177/MT860326	120.84	51.67	85.00	31.50	175.67	20.73
MT940196 MT860326/Clivia	120.84	52.40	96.00	35.43	175.00	15.57
MT940080 MT 81143/Blenheim	120.84	53.57	94.00	32.81	172.00	.00
MT940022 MT 81143/Berolina	120.84	54.07	97.00	38.71	177.67	.00
MT940177 MT860326/Clivia	119.83	50.53	80.00	34.12	173.67	14.80
MT940071 MT 81143/Blenheim	119.83	52.53	96.00	30.84	173.67	.00
MT940163 MT851088/Blenheim	119.83	52.73	89.00	34.12	175.00	5.00
MT940203 MT860326/MT81143	119.83	51.73	87.00	35.43	173.00	10.20
MT940151 MT851012/MT860756	119.83	51.03	94.00	34.12	173.67	3.70
MT940220 MT860756/MT81143	118.83	52.03	86.00	32.81	171.00	.00
MT940079 MT 81143/Blenheim	118.83	54.63	97.00	34.78	174.00	.00
MT940201 MT860326/MT81143	117.82	54.27	91.00	32.81	170.00	3.70
MT940013 Harrington/MT851177	117.82	52.40	84.00	34.78	172.00	13.33
MT940070 MT 81143/Blenheim	117.82	50.03	86.00	33.46	172.67	29.40
MT 81143 Hector/Klages//Klages/Sum	117.82	53.33	95.00	36.75	171.67	.00
MT940064 MT 81143/Blenheim	116.81	53.37	96.00	34.12	174.33	12.97
MT940053 MT 81143/Blenheim	116.81	52.37	89.00	31.50	176.33	.00
MT940048 MT 81143/Blenheim	115.80	52.10	83.00	31.50	175.33	7.40
MT940038 MT 81143/Berolina	115.80	52.57	98.00	38.06	170.33	9.27
MT940159 MT851031/Clivia	113.79	51.67	94.00	36.09	173.00	8.87
MT940019 MT 81143/Berolina	113.79	51.90	96.00	38.71	172.33	.00
MT940218 MT860756/Lewis	113.79	52.53	93.00	32.81	172.67	.00
MT940124 MT 81143/Gimpel	113.79	53.23	95.00	32.81	175.67	.00
MT940225 MT861626/Clivia	112.78	51.90	93.00	35.43	170.67	20.73
MT940204 MT860326/MT81143	112.78	53.23	94.00	36.75	171.67	9.27
EBC91 3 Alexis	112.78	52.07	93.00	30.18	178.33	16.67
MT940206 MT860326/MT81143	111.78	52.80	91.00	33.46	170.33	14.80
MT940036 MT 81143/Berolina	111.78	52.97	94.00	36.75	171.00	.00
MT940188 MT860326/Clivia	111.78	51.77	83.00	36.75	170.00	17.77
MT940205 MT860326/MT81143	111.78	52.67	95.00	32.81	171.33	3.70
MT940238 MT860326/MT 81143	110.77	52.13	93.00	34.78	172.33	10.00
MT940149 MT851012/Clivia	109.76	51.70	93.00	34.78	174.00	2.77
MT940027 MT 81143/Berolina	109.76	53.70	94.00	37.40	172.33	.00
MT940232 MT870056/Karla	109.76	46.33	89.00	28.87	168.00	.00
MT940173 MT860326/Clivia	109.76	51.90	90.00	35.43	174.33	6.10
MT940150 MT851012/Clivia	108.76	52.83	94.00	32.81	177.00	1.10
MT940221 MT860756/MT81143	105.73	51.73	84.00	35.43	170.33	10.43
PI491534 Gallatin	105.73	51.80	87.00	34.78	173.67	5.57
CI 15514 Hector	105.73	51.23	79.00	38.06	172.33	35.43

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VARIETY	YIELD BU/A	TEST WT LB/BU	PERCENT PLUMP	HEIGHT INCHES	HEADING DATE	LOADING INDEX
MT940043 MT 81143/Berolina	105.73	51.67	98.00	37.40	173.67	.00
MT940214 MT860756/Lewis	104.73	51.83	92.00	32.15	174.00	.00
MT940024 MT 81143/Berolina	102.71	50.93	97.00	37.40	171.33	.00
MT940212 MT860756/Lewis	100.70	49.83	86.00	34.78	172.67	16.67
MT940147 MT851012/Clivia	99.69	52.70	97.00	33.46	175.67	2.23
CI 15773 Morex	97.68	49.63	89.00	39.37	169.00	20.73
MEAN	117.69	52.09	----	34.39	173.42	6.78
LSD ( .05 )	17.41	1.87	----	2.49	1.61	17.97