

PROJECT TITLE: Winter Wheat Variety Performance

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OBJECTIVE: To evaluate new and existing lines of winter wheat under various Montana conditions.

RESULTS: Grain yields are summarized in table 1, test weights in table 2, heading dates in table 3, and plant heights in table 4. Yields this year were higher at most locations than last year; however, some sites had lower yields due to drought. Winterkill did not appear to be a problem this year. The Hybritech hybrids, MT 8502, Judith and Neeley were the high yielding lines this year.

SUMMARY: The Hybritech hybrids: QT 542, QT 549, and XNH 1401, MT 8502, Judith, and Neeley were the top producing hybrids, lines, or varieties this year. This performance was similar to 1987.

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TABLE 1. SUMMARY FOR GRAIN YIELD, INTRASTATE DRYLAND WINTER WHEAT NURSERY. 1990.

CULTIVAR OR LINE	BDZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSQ
	-----bu/ac-----									
GT 542 HYBRITECH 542	83.09	47.03	55.45	94.79	42.23	66.75	88.70	68.3	1.03	0.93
GT 549 HYBRITECH 549	72.22	41.60	37.08	102.05	43.91	65.39	85.51	64.0	1.24	0.99
XNH 1401 HYBRITECH 1401	70.38	43.78	46.10	94.73	37.65	66.31	82.66	63.1	1.08	0.98
MT 8502 ID745101/LCO	74.58	39.78	38.93	94.51	45.16	61.53	83.77	62.6	1.12	0.97
MT 8039 JUDITH	69.80	39.65	41.35	107.49	40.81	57.34	80.69	62.4	1.28	0.98
CI 17860 NEELEY	66.36	37.30	44.60	104.05	43.26	52.78	86.33	62.1	1.23	0.94
MT 88029 HP 340/NRS//MT 72161	65.75	42.33	39.75	95.95	46.72	54.11	84.74	61.3	1.08	0.95
MT 88017 PMN5/WN//HP 344/FRD	74.68	44.18	40.98	91.85	34.71	61.75	78.82	61.0	1.09	0.97
MT 85200 FRD/WNK//MT 6928/TR	69.36	39.07	39.23	92.95	45.69	55.23	83.32	60.7	1.08	0.96
MT 88018 PMN5/WN//HP 344/FRD	74.81	44.05	39.53	86.05	39.36	60.04	77.56	60.2	0.98	0.96
MT 88030 HP 340/NRS//MT 72161	78.22	43.20	41.63	79.54	38.78	64.42	73.71	59.9	0.87	0.88
MT 88013 PMN5/WN//HP 344/FRD	74.20	42.33	40.50	80.45	34.62	68.77	77.93	59.8	0.95	0.89
CI 15075 CENTURK	62.83	44.28	38.33	94.43	42.83	60.61	74.87	59.7	1.01	0.98
MT 7811 FRD/WNK//MT 6928/TR	60.44	40.30	38.35	101.21	43.79	50.44	83.05	59.7	1.18	0.94
MT 88021 PMN5/WN//HP 344/FRD	69.36	43.48	41.60	86.49	37.14	61.73	77.09	59.6	0.97	0.98
MT 88064 CST/VT 1230//ID74510	61.30	36.93	34.45	105.93	40.30	58.60	79.37	59.6	1.30	0.97
RH78W296 BIGHORN	71.69	37.48	37.15	100.64	35.61	58.68	72.87	59.2	1.23	0.98
MT 88050 PMN5/MT 77003//HP 34	72.42	36.78	38.80	101.56	37.10	53.94	73.93	59.2	1.23	0.97
MT 8508 CST//FRD1268/OLESEN1	61.20	38.05	35.30	94.15	41.57	61.08	83.29	59.2	1.15	0.97
PI517194 TIBER	64.67	43.55	41.75	93.51	40.23	56.26	73.71	59.1	1.00	0.99
MT 8599 CST//FRD1650/OLESEN1	56.77	38.00	34.75	107.41	39.50	58.59	78.40	59.1	1.30	0.94
MT 88024 PMN5/WN//HP 344/FRD	72.93	43.45	40.63	81.16	37.00	66.48	70.60	58.9	0.87	0.91
MT 88025 PMN5/WN//HP 344/FRD	72.47	41.33	39.57	86.50	35.83	63.47	72.98	58.9	0.99	0.96
MT 88026 PMN5/WN//HP 344/FRD	70.52	43.40	36.40	84.84	39.11	64.41	71.33	58.6	0.93	0.95
MT 88012 CTK 78/MT 77003//HP	67.90	43.10	33.53	85.55	38.72	60.71	80.37	58.6	1.03	0.96
MT 88010 CTK 78/MT 77003//HP	65.34	42.63	34.30	84.86	40.48	61.18	78.99	58.3	0.99	0.97
CI 17879 ROCKY	62.42	39.23	38.50	89.61	37.90	57.71	82.52	58.3	1.08	0.98
MT 88065 CST/VT 1230//ID74510	58.95	38.55	37.95	105.21	37.43	50.22	77.69	58.0	1.25	0.94
MT 88027 PMN5/WN//HP 344/FRD	71.05	42.30	36.00	82.70	37.15	68.43	66.99	57.8	0.90	0.88
MT 88028 HP 340/NRS//MT 72161	74.61	42.35	37.88	85.61	28.91	64.97	69.21	57.6	1.02	0.89
MT 8713 MSC/CTK A+//IUL	63.79	36.85	45.98	92.13	39.41	55.50	67.12	57.3	0.95	0.94
MT 8726 CST/VT1230//ID745101	68.06	37.95	37.13	95.16	23.86	53.06	85.79	57.3	1.33	0.96
MT 88046 PMN5/MT 77003//HP 34	66.39	40.30	39.78	79.29	37.11	62.22	75.34	57.2	0.89	0.96
CI 17844 REDWIN	62.87	37.55	41.38	85.75	35.04	63.69	72.96	57.0	0.97	0.97
MT 88023 PMN5/WN//HP 344/FRD	67.87	42.10	38.08	78.91	35.54	62.51	73.33	56.9	0.89	0.95
MT 8709 MSC/CTK A+//IUL	70.08	34.65	37.93	90.96	43.05	48.54	72.45	56.8	1.04	0.93

TABLE 1. CONTINUED

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSQ
	-----bu/ac-----									
MT 8719 RRI/MT 6928	71.24	36.98	35.68	96.25	35.54	51.09	70.52	56.8	1.16	0.96
MT 8706 MSC/CTK A+//IUL	60.72	36.95	14.75	96.59	35.70	62.74	87.66	56.4	1.43	0.91
ND 8002 SEWARD	63.23	38.23	41.55	80.31	40.66	58.96	71.91	56.4	0.84	0.98
CI 17902 WINRIDGE	57.14	35.43	41.95	98.61	38.41	50.88	69.15	55.9	1.08	0.92
PI491533 NORWIN	70.29	35.13	35.67	85.85	43.55	45.30	72.70	55.5	0.99	0.91
MT 88022 PMNS/WN//HP 344/FRD	64.29	37.88	37.35	74.80	36.87	63.85	72.74	55.4	0.85	0.92
ID 279 BLIZZARD	54.62	40.28	38.98	95.76	35.30	43.19	72.63	54.4	1.07	0.90
CI 8885 CHEYENNE	57.51	42.25	37.15	74.00	38.50	56.80	71.33	53.9	0.76	0.97
MT 88019 PMNS/WN//HP 344/FRD	53.43	40.40	42.60	84.05	32.41	54.18	70.54	53.9	0.89	0.94
MT 88038 PMNS/WN//MT 7216(262	49.29	34.35	37.55	92.60	37.09	52.85	72.63	53.8	1.06	0.93
MT 88014 PMNS/WN//HP 344/FRD	54.02	40.60	37.28	80.40	35.47	54.68	71.33	53.4	0.87	0.98
MT 85202 FRD/WNK//MT 6928/TR	55.30	36.70	36.98	87.75	36.10	52.86	66.64	53.2	0.96	0.97
MT 88035 MT 7216(LR117)//FRD	57.77	39.35	39.60	76.54	38.20	48.19	70.06	52.8	0.79	0.98
MT 88057 MSB 20/CN SR303//MT	59.94	37.95	33.70	76.20	35.36	59.27	66.12	52.6	0.84	0.96
MT 88001 SNT/TD//Y6SS	64.75	30.45	37.65	79.08	35.28	50.21	68.58	52.3	0.94	0.96
PI491532 CREE	57.66	38.62	41.63	78.25	33.18	48.56	67.48	52.2	0.82	0.97
CI 13670 WINALTA	58.70	37.68	33.43	77.18	36.31	54.41	66.99	52.1	0.85	0.99
ND 8212 RRI//Y060/TPR	57.94	34.18	37.90	81.80	33.18	50.29	64.11	51.3	0.91	0.99
MT 88062 CST/VT 1230//ID74510	54.75	37.25	30.60	81.19	26.87	49.68	74.44	50.7	1.06	0.97
ND 8407 CTK/3/FRD#2//ND 363/	50.63	36.10	35.38	73.23	35.65	52.86	64.62	49.8	0.76	0.98
CI 17439 ROUGHRIDER	55.15	37.33	34.65	73.69	31.76	54.72	58.82	49.4	0.77	0.97
CI 17735 NORSTAR	45.91	35.78	35.13	76.46	33.37	48.97	63.61	48.5	0.81	0.95
PI478771 AGASSIZ	48.58	33.90	37.63	68.10	33.28	46.83	67.98	48.0	0.73	0.93
MT 88005 WSC/Y060//RSC/3/TD25	43.82	34.95	35.40	69.56	26.46	50.21	64.12	46.4	0.77	0.91
MT 7863 FRD/WNK//CTK	51.20	29.65	33.00	70.23	25.54	52.25	54.84	45.2	0.80	0.94
MT 88006 WSC/Y060//RSC/3/TD25	47.62	32.75	32.33	63.05	32.05	48.49	57.54	44.8	0.64	0.97
***** SITE MEAN *****	63.47	39.03	38.00	87.25	37.09	56.77	73.82	56.5	1.00	1.00

TABLE 2. SUMMARY FOR TEST WEIGHT, INTRASTATE DRYLAND WINTER WHEAT NURSERY, 1990.

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MDC	HUN	CON	MEAN	BYX	RSB
	-----lb/bu-----									
MT 88057 MSB 20/CN SR303//MT	63.00	57.25	61.00	63.33	63.88	59.50	62.93	61.6	0.70	0.80
CI 13670 WINALTA	63.20	58.05	60.50	62.58	61.68	58.85	64.13	61.3	0.69	0.91
MT 88030 HP 340/NRS//MT 72161	63.20	57.60	60.50	62.20	60.88	58.98	64.13	61.1	0.69	0.87
CI 17439 ROUGHRIDER	62.90	57.27	61.00	62.68	61.43	59.00	63.07	61.1	0.68	0.93
MT 88027 PMN5/WN//HP 344/FRD	63.10	57.23	60.50	61.85	62.60	58.18	64.27	61.1	0.77	0.85
MT 88014 PMN5/WN//HP 344/FRD	61.40	58.00	60.50	62.40	62.63	58.15	63.78	61.0	0.68	0.89
CI 8885 CHEYENNE	63.20	58.00	61.00	62.30	61.87	56.92	62.86	60.9	0.74	0.88
PI491532 CREE	63.60	57.83	61.00	62.43	60.60	56.90	63.64	60.9	0.81	0.89
MT 88010 CTK 78/MT 77003//HP	62.20	56.35	60.00	63.40	62.13	58.35	63.42	60.8	0.84	0.94
CI 17735 NORSTAR	62.80	58.00	60.00	62.28	61.03	58.00	62.79	60.7	0.65	0.93
MT 88012 CTK 78/MT 77003//HP	61.90	56.27	61.00	63.30	60.80	57.68	63.28	60.6	0.86	0.98
MT 88021 PMN5/WN//HP 344/FRD	63.50	55.35	60.50	62.45	59.45	58.25	64.41	60.6	0.94	0.84
ID 279 BLIZZARD	62.00	57.35	60.00	63.25	60.43	57.48	62.79	60.5	0.76	0.98
CI 17844 REDWIN	63.00	55.50	62.00	62.40	60.28	56.83	63.28	60.5	0.95	0.89
MT 8719 RRI/MT 6928	61.50	56.18	60.00	63.38	62.93	56.78	62.65	60.5	0.90	0.90
PI517194 TIBER	62.50	57.62	60.50	63.25	59.48	56.05	63.28	60.4	0.87	0.91
MT 88013 PMN5/WN//HP 344/FRD	63.00	54.88	60.00	62.17	59.22	57.13	64.06	60.1	1.00	0.89
CI 17879 ROCKY	61.20	55.30	60.00	63.25	59.75	56.30	64.84	60.1	1.09	0.96
MT 88025 PMN5/WN//HP 344/FRD	62.20	55.25	60.00	61.50	61.33	56.70	63.71	60.1	0.94	0.92
MT 88024 PMN5/WN//HP 344/FRD	61.40	55.50	60.00	61.98	60.92	57.18	63.71	60.1	0.89	0.95
MT 88026 PMN5/WN//HP 344/FRD	62.50	54.70	59.50	62.38	60.40	56.73	63.64	60.0	1.03	0.95
MT 8713 MSC/CTK A+//IUL	60.90	55.50	60.00	62.80	61.63	55.13	63.57	59.9	1.06	0.96
MT 88017 PMN5/WN//HP 344/FRD	61.90	55.50	59.50	62.15	60.03	56.05	63.64	59.8	0.98	0.97
RH78W296 BIGHORN	61.80	54.58	59.50	62.85	59.18	57.45	62.44	59.7	0.92	0.92
MT 88023 PMN5/WN//HP 344/FRD	61.60	55.10	59.50	61.35	60.63	57.08	62.08	59.6	0.81	0.93
MT 85202 FRD/WNK//MT 6928/TR	60.00	55.92	59.50	62.10	61.08	56.97	61.31	59.6	0.71	0.92
MT 88035 MT 7216(LR117)/FRD	62.10	55.25	59.50	62.70	60.40	54.23	63.00	59.6	1.12	0.96
MT 88046 PMN5/MT 77003//HP 34	59.60	55.62	59.00	62.80	60.93	56.13	63.14	59.6	0.92	0.93
CI 15075 CENTURK	60.10	55.38	59.50	63.50	59.33	56.25	63.07	59.6	0.97	0.96
PI491533 NORWIN	61.10	56.27	59.00	62.30	60.87	54.88	62.79	59.6	0.95	0.95
MT 88018 PMN5/WN//HP 344/FRD	62.20	54.78	59.00	62.55	58.73	56.48	63.07	59.5	1.00	0.94
ND 8002 SEWARD	62.10	54.35	59.00	62.73	58.70	56.05	63.28	59.5	1.08	0.95
QT 542 HYBRITECH 542	61.80	54.43	59.50	63.28	58.40	54.75	63.64	59.4	1.20	0.97
MT 7863 FRD/WNK//CTK	61.90	54.05	58.00	62.10	59.43	57.35	62.23	59.3	0.92	0.87
XNH 1401 HYBRITECH 1401	60.30	54.90	59.50	63.60	58.92	54.98	63.21	59.3	1.10	0.97
PI478771 AGASSIZ	60.30	54.98	59.50	62.87	60.20	54.05	62.72	59.2	1.10	0.97

TABLE 2. CONTINUED

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSB
	-lb/bu-									
MT 88005 WSC/YO6D//RSC/3/TD25	61.40	55.18	60.00	61.40	59.08	56.00	60.46	59.1	0.77	0.90
MT 88029 HP 340/NRS//MT 72161	59.20	54.75	59.50	63.70	60.55	53.70	62.44	59.1	1.15	0.93
MT 8502 ID745101/LCD	60.70	53.83	59.50	62.28	60.20	52.97	62.58	58.9	1.23	0.96
MT 88028 HP 340/NRS//MT 72161	62.00	54.15	58.00	62.38	57.55	56.08	62.44	58.9	1.01	0.88
MT 88019 PMN5/WN//HP 344/FRD	61.10	52.88	58.50	62.78	58.43	55.53	62.44	58.8	1.15	0.96
ND 8212 RRI//YO6D/TPR	61.20	53.32	57.00	62.35	60.20	55.33	62.23	58.8	1.12	0.94
CI 17860 NEELEY	60.10	53.20	60.00	63.13	59.40	54.20	61.10	58.7	1.14	0.94
ND 8407 CTK/3/FRD#2//ND 363/	59.70	54.53	58.50	61.23	58.93	55.50	62.23	58.7	0.90	0.99
MT 88006 WSC/YO6D//RSC/3/TD25	60.00	55.18	59.50	60.20	60.18	56.27	59.69	58.7	0.61	0.83
QT 549 HYBRITECH 549	59.90	53.48	58.00	62.60	59.28	53.32	62.79	58.5	1.24	0.99
MT 88038 PMN5/WN//MT 72161262	59.80	52.65	57.50	62.28	58.93	55.03	63.42	58.5	1.20	0.96
CI 17902 WINRIDGE	61.10	54.15	57.00	62.80	60.20	53.05	60.32	58.4	1.12	0.89
MT 7811 FRD/WNK//MT 6928/TR	57.70	55.65	58.50	62.55	60.53	51.93	60.53	58.2	0.99	0.75
MT 88065 CST/VT 1230//ID74510	59.30	53.75	58.00	62.98	60.00	52.10	59.97	58.0	1.15	0.88
MT 8599 CST//FRD1650/DLESEN1	58.00	53.60	56.50	62.58	58.05	54.35	62.30	57.9	1.08	0.91
MT 88022 PMN5/WN//HP 344/FRD	57.70	51.78	57.00	61.63	57.83	56.43	62.44	57.8	1.02	0.81
MT 88001 SMT/TD//VGSS	58.70	54.10	58.00	62.93	58.88	51.48	60.25	57.8	1.16	0.89
MT 8709 MSC/CTK A+//IUL	60.20	51.88	57.50	62.17	59.30	52.13	60.74	57.7	1.31	0.97
MT 8508 CST//FRD1268/DLESEN1	56.70	51.43	56.50	63.60	58.88	52.78	64.34	57.7	1.49	0.88
MT 8039 JUDITH	58.90	52.63	56.50	62.40	56.92	51.93	60.81	57.2	1.23	0.96
MT 8706 MSC/CTK A+//IUL	57.00	50.85	59.90	61.50	54.38	53.38	62.01	57.0	1.22	0.77
MT 88062 CST/VT 1230//ID74510	57.70	53.15	57.00	62.50	55.65	51.48	58.63	56.6	1.07	0.84
MT 85200 FRD/WNK//MT 6928/TR	54.00	52.23	57.00	62.10	58.28	49.22	61.45	56.3	1.35	0.77
MT 8726 CST/VT1230//ID745101	58.30	51.88	58.00	61.08	52.68	50.25	60.88	56.1	1.28	0.80
MT 88050 PMN5/MT 77003//HP 34	56.60	52.32	56.00	62.05	57.53	49.33	59.05	56.1	1.26	0.87
MT 88064 CST/VT 1230//ID74510	55.10	47.20	55.00	61.30	54.90	50.58	58.27	54.6	1.43	0.91
##### SITE MEAN #####	60.70	54.77	59.09	62.47	59.66	55.36	62.45	59.2	1.00	1.00

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TABLE 3. SUMMARY FOR HEADING DATE, INTRASTATE DRYLAND WINTER WHEAT NURSERY, 1990

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYI	RSQ
-----Julian Date-----										
CI 17735 NORSTAR	176.25	168.75	171.00	169.75	175.75	165.00	175.00	171.6	0.83	0.98
MT 88062 CST/VT 1230//ID74510	175.00	167.00	171.00	169.25	175.25	161.00	174.00	170.4	1.01	0.97
CI 17902 WINRIDGE	175.75	168.25	168.25	168.50	174.25	163.00	174.00	170.3	0.89	0.96
MT 88001 SMT/TD//Y6SS	176.50	167.25	168.25	168.50	174.50	161.50	175.00	170.2	1.05	0.97
MT 88065 CST/VT 1230//ID74510	175.00	166.25	169.00	168.75	173.75	162.00	176.00	170.1	1.00	0.97
MT 88064 CST/VT 1230//ID74510	174.50	165.50	171.25	168.25	174.00	161.00	174.00	169.8	1.00	0.96
CI 17860 NEELEY	174.50	166.00	168.25	168.50	174.25	162.00	173.00	169.5	0.93	1.00
ND 8002 SEWARD	174.25	166.25	168.75	167.75	174.00	161.00	173.00	169.3	0.96	0.99
MT 88005 WSC/YO60//RSC/3/TD25	175.50	165.75	167.00	167.75	173.75	162.00	173.00	169.2	0.97	0.97
MT 88006 WSC/YO60//RSC/3/TD25	174.25	165.00	169.00	167.25	173.75	162.00	173.00	169.2	0.94	0.99
PI491532 CREE	174.50	164.50	168.00	168.25	174.00	162.00	173.00	169.2	0.96	0.99
PI491533NORWIN	175.25	165.25	167.25	168.25	173.75	162.00	172.00	169.1	0.94	0.97
CI 8885 CHEYENNE	174.25	165.00	168.75	168.00	173.75	162.00	172.00	169.1	0.91	0.99
PI478771 AGASSIZ	174.25	164.25	168.25	168.75	173.25	162.00	173.00	169.1	0.94	0.99
ID 279 BLIZZARD	173.75	165.75	168.25	166.75	173.75	162.00	173.00	169.0	0.90	0.97
ND 8212 RRI//YO60/TPR	173.50	165.50	167.25	167.50	173.25	161.50	173.00	168.8	0.91	0.98
MT 88050 PMN5/MT 77003//HP 34	174.50	165.50	166.00	168.25	173.50	160.50	173.00	168.8	1.01	0.96
PI517194 TIBER	174.25	163.50	167.25	167.50	173.25	161.50	172.00	168.5	0.97	0.98
MT 8726 CST/VT1230//ID745101	174.00	163.00	169.00	168.25	172.50	159.50	173.00	168.5	1.07	0.97
CI 17844 REDWIN	174.00	164.50	169.25	166.75	172.00	160.00	172.00	168.4	0.97	0.97
MT 7811 FRD/WNK//MT 6928/TR	174.00	164.00	167.50	167.75	173.00	159.50	173.00	168.4	1.07	1.00
MT 85202 FRD/WNK//MT 6928/TR	174.25	164.75	165.25	167.50	173.00	162.00	172.00	168.4	0.91	0.94
MT 8709 MSC/CTK A+//IUL	173.25	164.25	166.75	167.50	173.25	160.00	173.00	168.3	1.02	0.99
CI 13670 WINALTA	173.75	163.75	166.25	167.75	172.75	161.00	172.00	168.2	0.96	0.98
CI 17439 ROUGHRIDER	173.50	164.75	167.00	167.50	172.50	161.00	171.00	168.2	0.89	0.99
MT 88014 PMN5/WN//HP 344/FRD	174.25	164.00	166.75	167.00	173.50	159.00	173.00	168.2	1.13	1.00
ND 8407 CTK/3/FRD#2//ND 363/	173.00	164.75	167.25	167.75	173.25	159.00	172.00	168.1	1.02	0.98
MT 88035 MT 7216(LR117)//FRD	173.25	163.25	166.25	166.75	172.00	159.50	172.00	167.6	1.02	1.00
MT 8719 RRI/MT 6928	172.75	162.75	166.75	167.25	171.75	159.00	172.00	167.5	1.03	0.99
MT 88038 PMN5/WN//MT 7216(262	173.75	164.25	164.75	166.75	171.25	159.50	171.00	167.3	0.97	0.96
RH78W296 BIGHORN	172.25	162.75	165.00	167.75	171.25	158.50	171.00	166.9	1.00	0.97
MT 88057 MSB 20/CN SR303//MT	171.00	163.75	165.75	166.75	171.75	158.50	171.00	166.9	0.94	0.96
MT 88029 HP 340/NRS//MT 7216(	172.00	162.25	165.75	167.00	172.00	158.50	171.00	166.9	1.03	0.99
MT 8502 ID745101/LCO	172.00	161.75	167.50	166.75	170.75	158.00	170.00	166.7	1.00	0.97
MT 88030 HP 340/NRS//MT 7216(	172.00	161.50	164.50	166.50	171.25	158.00	170.00	166.2	1.04	0.98
MT 88028 HP 340/NRS//MT 7216(	171.25	162.00	165.25	166.00	170.75	158.50	169.00	166.1	0.93	0.99

TABLE 3. CONTINUED.

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSB
	-----Julian Date-----									
MT 8713 MSC/CTK A+//IUL	172.00	162.00	165.50	165.50	171.00	157.00	169.00	166.0	1.04	0.98
CI 17879 ROCKY	171.75	162.50	165.50	165.75	170.00	156.50	169.00	165.9	1.02	0.98
MT 7863 FRD/WNK//CTK	172.00	161.25	166.50	163.25	169.75	157.50	170.00	165.8	1.04	0.97
MT 88010 CTK 78/MT 77003//HP	171.25	161.75	163.25	164.75	170.00	157.50	170.00	165.5	1.01	0.98
MT 8508 CST//FRD1268/DLESEN	169.75	161.75	165.25	164.00	170.25	156.50	170.00	165.4	1.01	0.98
CI 15075 CENTURK	171.50	161.50	164.25	163.25	170.50	157.50	169.00	165.4	1.02	0.98
MT 8599 CST//FRD1650/DLESEN	170.75	160.75	165.25	163.25	169.75	157.00	170.00	165.2	1.04	0.99
MT 88019 PMN5/WN//HP 344/FRD	171.75	160.00	163.25	164.00	170.25	157.00	170.00	165.2	1.12	0.99
MT 88018 PMN5/WN//HP 344/FRD	170.75	161.25	163.25	165.00	170.00	157.50	168.00	165.1	0.95	0.97
MT 8039 JUDITH	172.50	160.50	166.50	162.75	168.00	157.00	168.00	165.0	1.01	0.93
XNH 1401 HYBRITECH 1401	170.75	160.25	164.50	164.00	170.00	155.50	170.00	165.0	1.14	1.00
MT 88022 PMN5/WN//HP 344/FRD	172.00	161.00	163.00	162.75	169.50	156.50	170.00	165.0	1.11	0.98
MT 85200 FRD/WNK//MT 6928/TR	171.25	160.25	163.75	163.25	169.25	156.50	169.00	164.8	1.07	1.00
MT 88024 PMN5/WN//HP 344/FRD	171.25	160.00	163.50	163.75	167.75	155.90	169.00	164.5	1.06	0.98
MT 88017 PMN5/WN//HP 344/FRD	170.75	159.75	164.25	163.50	168.50	155.50	169.00	164.5	1.09	1.00
MT 88021 PMN5/WN//HP 344/FRD	169.75	159.25	163.25	164.75	167.00	158.00	169.00	164.4	0.88	0.94
MT 88012 CTK 78/MT 77003//HP	168.50	159.25	165.25	162.75	169.75	156.00	169.00	164.4	1.03	0.96
MT 88026 PMN5/WN//HP 344/FRD	170.75	159.75	162.75	163.75	168.00	156.00	169.00	164.3	1.05	0.98
MT 88023 PMN5/WN//HP 344/FRD	170.50	159.50	164.25	163.25	167.50	155.50	168.00	164.1	1.03	0.98
MT 88027 PMN5/WN//HP 344/FRD	170.75	159.75	164.00	161.75	167.00	156.50	168.00	164.0	0.98	0.97
MT 88046 PMN5/MT 77003//HP 34	170.00	159.25	163.00	161.50	167.50	156.50	170.00	164.0	1.04	0.96
MT 88025 PMN5/WN//HP 344/FRD	171.50	158.25	164.00	163.25	167.00	156.00	167.00	163.9	1.04	0.95
QT 542 HYBRITECH 542	170.00	159.00	163.75	162.25	169.25	155.50	167.00	163.8	1.06	0.98
MT 8706 MSC/CTK A+//IUL	168.50	158.00	168.50	161.50	167.50	154.00	168.00	163.7	1.07	0.82
QT 549 HYBRITECH 549	169.50	158.75	165.00	161.25	167.50	155.50	167.00	163.5	1.00	0.95
MT 88013 PMN5/WN//HP 344/FRD	168.50	158.50	162.00	161.50	167.25	156.00	168.00	163.1	0.97	0.98
***** SITE MEAN *****	172.55	162.76	166.17	165.85	171.29	158.86	170.95	166.9	1.00	1.00

TABLE 4. SUMMARY FOR PLANT HEIGHT, INTRASTATE DRYLAND WINTER WHEAT NURSERY. 1990.

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSQ
-----Inches-----										
ND 8407 CTK/3/FRD12//ND 363/	52.85	36.56	36.02	53.15	42.91	54.50	48.00	46.3	1.20	0.93
MT 7863 FRD/WNK//CTK	54.72	36.04	34.84	57.38	41.73	51.00	44.00	45.7	1.40	0.98
PI478771 AGASSIZ	50.10	37.95	35.24	55.41	39.27	47.50	48.00	44.8	1.11	0.91
CI 17735 NORSTAR	51.77	34.97	35.04	56.89	39.67	47.50	48.00	44.8	1.30	0.94
MT 88018 PMNS/WN//HP 344/FRD	52.76	35.32	34.74	51.48	43.41	48.50	46.00	44.6	1.13	0.97
MT 88035 MT 7216(LR117)/FRD	52.26	34.79	35.63	53.05	42.03	49.00	43.00	44.3	1.17	0.98
CI 13670 WINALTA	53.15	34.11	35.33	54.23	41.34	46.50	44.00	44.1	1.24	0.98
MT 88006 WSC/YO60//RSC/3/TD25	51.08	35.81	35.43	53.35	40.45	46.50	46.00	44.1	1.11	0.98
MT 88013 PMNS/WN//HP 344/FRD	52.95	36.46	34.45	49.61	43.01	47.50	44.00	44.0	1.04	0.95
CI 17439 ROUGHRIDER	51.28	35.41	34.45	54.43	40.45	48.00	43.00	43.9	1.21	0.98
MT 88021 PMNS/WN//HP 344/FRD	49.11	37.53	34.06	51.38	40.35	47.50	46.00	43.7	1.00	0.96
MT 88012 CTK 78/MT 77003//HP	50.59	37.04	33.27	50.79	40.85	48.50	44.00	43.6	1.07	0.97
MT 8508 CST//FRD126B/OLESEN	51.48	34.61	34.55	50.79	41.54	45.50	46.00	43.5	1.08	0.97
MT 88014 PMNS/WN//HP 344/FRD	48.03	34.20	34.94	51.18	38.88	46.50	48.00	43.1	1.04	0.90
PI517194 TIBER	51.57	34.06	32.68	52.17	40.85	46.00	44.00	43.0	1.22	0.99
MT 88010 CTK 78/MT 77003//HP	50.98	35.05	33.66	50.10	41.14	46.00	44.00	43.0	1.07	0.99
ND 8002 SEWARD	52.56	32.64	35.24	51.87	40.75	46.00	42.00	43.0	1.19	0.96
MT 88026 PMNS/WN//HP 344/FRD	49.31	36.04	34.06	50.20	41.93	47.00	42.00	42.9	0.98	0.97
PI491532 CREE	49.31	32.93	34.15	53.25	38.68	45.00	46.00	42.8	1.18	0.94
MT 88005 WSC/YO60//RSC/3/TD25	40.55	35.27	35.14	54.33	42.13	46.50	46.00	42.8	0.84	0.61
CI 8885 CHEYENNE	49.51	34.88	35.83	51.48	37.40	44.00	45.00	42.6	1.02	0.93
ND 8212 RRI//YO60/TPR	50.00	33.01	33.46	51.67	37.50	48.50	44.00	42.6	1.24	0.98
MT 85202 FRD/WNK//MT 6928/TR	50.39	32.23	32.87	50.89	39.37	45.00	47.00	42.5	1.20	0.94
MT 88038 PMNS/WN//MT 72161262	48.62	33.02	34.15	50.59	38.68	46.00	44.00	42.2	1.09	0.98
MT 88019 PMNS/WN//HP 344/FRD	48.43	33.12	34.55	50.59	39.47	45.50	44.00	42.2	1.05	0.98
QT 542 HYBRITECH 542	49.02	35.95	33.07	46.75	39.57	46.00	44.00	42.1	0.92	0.95
ID 279 BLIZZARD	48.23	34.39	33.66	49.41	37.99	47.50	42.00	41.9	1.04	0.97
CI 17902 WINRIDGE	50.98	31.76	32.68	50.98	36.52	43.50	45.00	41.6	1.25	0.95
XNH 1401 HYBRITECH 1401	49.51	34.38	32.58	48.23	39.47	45.50	41.00	41.5	1.03	0.98
MT 88027 PMNS/WN//HP 344/FRD	49.11	34.12	33.17	46.95	39.27	45.50	41.00	41.3	0.97	0.97
CI 15075 CENTURK	49.61	33.68	32.78	48.33	39.17	44.50	40.00	41.2	1.04	0.98
MT 88028 HP 340/NRS//MT 72161	49.11	32.93	33.56	49.31	39.37	44.00	40.00	41.2	1.05	0.98
CI 17879 ROCKY	48.43	32.20	32.78	48.82	38.09	43.50	42.00	40.8	1.07	0.99
MT 8599 CST//FRD1650/OLESEN	50.59	30.96	29.33	48.33	39.17	46.50	40.00	40.7	1.30	0.97
MT 8039 JUDITH	48.03	33.01	34.06	44.78	37.60	43.00	43.00	40.5	0.87	0.94
MT 88023 PMNS/WN//HP 344/FRD	47.93	35.93	31.79	46.46	35.63	44.00	42.00	40.5	0.94	0.93

TABLE 4. CONTINUED.

CULTIVAR OR LINE	BOZ	HAV	SID	KAL	MOC	HUN	CON	MEAN	BYX	RSQ
MT 88025 PMNS/WN//HP 344/FRD	49.11	33.37	33.66	45.87	37.01	45.00	39.00	40.4	0.96	0.94
MT 88017 PMNS/WN//HP 344/FRD	47.44	33.65	33.86	45.96	37.20	45.00	40.00	40.4	0.90	0.97
MT 88062 CST/VT 1230//ID74510	48.52	31.45	31.30	46.16	37.01	46.50	41.00	40.3	1.12	0.97
MT 88022 PMNS/WN//HP 344/FRD	47.34	35.32	32.28	46.06	36.61	43.50	41.00	40.3	0.89	0.97
MT 88057 MSB 20/CN SR303//MT	48.43	33.05	32.68	47.74	38.68	45.00	36.00	40.2	1.02	0.90
CI 17844 REDWIN	48.33	32.14	32.87	50.10	36.32	39.50	41.00	40.0	1.06	0.90
MT 88064 CST/VT 1230//ID74510	44.39	29.78	29.72	47.05	38.39	45.00	41.00	39.3	1.09	0.94
MT 88024 PMNS/WN//HP 344/FRD	48.03	33.04	31.50	45.28	37.11	42.50	37.00	39.2	0.95	0.94
CI 17860 NEELEY	45.87	31.68	32.38	46.65	35.14	45.00	38.00	39.2	1.01	0.96
MT 88046 PMNS/MT 77003//HP 34	45.28	32.76	30.81	43.80	38.78	44.00	38.00	39.1	0.87	0.93
MT 88029 HP 340/NRS//MT 72161	46.56	33.75	33.07	44.39	36.61	41.50	38.00	39.1	0.80	0.95
MT 88065 CST/VT 1230//ID74510	43.31	32.41	31.59	44.49	35.04	44.00	40.00	38.7	0.86	0.94
MT 7811 FRD/WNK//MT 6928/TR	43.70	32.11	33.37	45.57	34.74	43.00	38.00	38.6	0.84	0.95
QT 549 HYBRITECH 549	45.67	32.64	31.59	44.49	36.42	39.50	39.00	38.5	0.84	0.97
MT 88030 HP 340/NRS//MT 72161	44.00	31.35	30.31	44.78	34.84	42.50	39.00	38.1	0.95	0.99
MT 8719 RRI/MT 6928	44.29	29.47	31.59	45.18	36.32	41.50	38.00	38.1	0.95	0.98
MT 8502 ID745101/LCO	43.11	30.07	30.91	43.01	35.93	39.00	38.00	37.1	0.82	0.98
MT 8706 MSC/CTK A//IUL	42.81	32.33	26.57	42.22	38.48	41.50	34.00	36.8	0.86	0.80
MT 88050 PMNS/MT 77003//HP 34	43.70	30.09	31.50	42.62	33.17	38.00	33.00	36.0	0.81	0.88
RH78W296 BIGHORN	41.34	29.92	31.10	40.16	33.27	37.00	36.00	35.5	0.68	0.97
MT 8726 CST/VT1230//ID745101	41.14	29.88	29.13	39.96	32.58	38.50	34.00	35.0	0.76	0.97
MT 8713 MSC/CTK A//IUL	41.14	28.98	30.51	38.58	33.86	38.50	33.00	34.9	0.68	0.89
MT 85200 FRD/WNK//MT 6928/TR	42.42	28.10	27.95	39.47	33.37	37.50	33.00	34.5	0.85	0.94
MT 8709 MSC/CTK A//IUL	41.04	28.00	28.15	38.98	33.46	35.00	33.00	33.9	0.75	0.92
PI491533 NORWIN	31.30	25.97	23.23	33.66	27.85	31.50	30.00	29.1	0.55	0.92
MT 88001 SMT/TD//Y6SS	29.23	26.50	23.23	32.09	25.10	29.50	28.00	27.7	0.42	0.79
***** SITE MEAN *****	47.44	33.07	32.55	47.79	37.89	44.07	41.00	40.5	1.00	1.00