

2002 Variety Release & Recommendation Proposals –Oats

A Motion that 90AB1322 be released effective January 1, 2002.

90Ab1322 was developed cooperatively by the USDA Agricultural Research Service and the Idaho Agricultural Experiment Station. 90Ab1322 was selected in 1990 from an F5 head row, and has the pedigree of 80Ab988(=PI 578241)/Monida. The cross was made in 1984 at Aberdeen, the F1 and F2's were increased as bulks at Aberdeen, and then increased as head rows through the F5. 90Ab1322 was tested in the Montana Oat trials from 1994-2001. It is a short strawed variety that is suited to irrigated and high moisture areas in Montana. Approximately 400 bushels of breeders seed is available for spring of 2002. This would be a joint release with Idaho and Montana.

1994-2001 90Ab1322 Oat Summary

All Dryland and Irrigated Locations

Variety	# Locs	Yield bu/ac	# Locs	Test Weight lb/bu	# Locs	Heading Date days from Jan.1	# Locs	Plant Height inches
90Ab1322	67	134.7	67	34.7	65	176.1	66	31.1
Otana	67	126.5	67	36.9	65	175.9	66	39.9
Monida	67	135.5	67	34.9	65	177.9	66	37.1
Rio Grande	67	130.6	67	34.9	65	173.6	66	32.8
ABSP 9-2	44	135.0	44	36.7	42	174.8	43	34.6
Ajay	67	121.0	67	34.7	65	176.2	66	28.4

All Irrigated Locations

Variety	# Locs	Yield bu/ac	# Locs	Test Weight lb/bu	# Locs	Heading Date days from Jan.1	# Locs	Plant Height inches
90Ab1322	28	192.0	28	36.6	28	178.4	28	33.3
Otana	28	175.4	28	38.3	28	178.2	28	42.7
Monida	28	189.6	28	36.3	28	180.0	28	40.4
Rio Grande	28	181.5	28	36.3	28	176.0	28	35.0
ABSP 9-2	18	191.9	18	38.5	18	177.1	18	37.9
Ajay	28	171.4	28	36.0	28	178.8	28	30.4

Kalispell High Moisture - Yield (bu/ac)

VARIETY	1994	1995	1996	1998	1999	2000	2001	Avg.	#Years
90Ab1322	205.1	199.6	151.4	200.6	221.3	212.4	191.9	197.5	7
Otana	196.8	196.6	144.5	174.4	242.0	162.5	189.2	186.6	7
Monida	214.3	232.9	148.6	212.6	252.9	164.1	190.1	202.2	7
Rio Grande	178.5	204.2	132.2	200.6	228.9	187.6	173.6	186.5	7
ABSP 9-2	0.0	0.0	0.0	189.7	230.0	143.1	211.0	184.9	4
Ajay	178.2	192.1	109.1	190.8	211.4	177.1	165.2	174.8	7
L.S.D. (05)	24.52	25.07	25.40	38.45	27.14	52.12	23.30		
C.V.	7.93	—	11.64	12.01	7.51	21.42	7.32		

1994-2001 90Ab1322 Irrigated Oat Summary (continued)

Sidney Irrigated - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	196.2	154.8	169.2	155.9	159.8	199.5	221.1	153.8	176.3	8
Otana	162.7	116.2	144.0	160.3	140.8	175.3	213.2	139.9	156.6	8
Monida	204.3	131.6	178.6	175.5	194.2	177.3	203.7	151.1	177.0	8
Rio Grande	196.5	128.7	163.3	172.9	150.4	183.8	194.4	146.8	167.1	8
ABSP 9-2	0.0	0.0	0.0	178.9	165.0	195.8	208.1	161.1	180.0	5
Ajay	175.1	136.7	163.2	134.4	147.8	180.0	190.3	143.9	158.9	8
L.S.D. (05)	25.99	18.27	19.20	16.00	19.23	18.60	16.40	6.90		
C.V.	9.24	9.09	7.45	5.79	6.97	6.25	5.18	17.56		

Huntley Irrigated - Yield (bu/ac)

VARIETY	1994	1995	1999	2000	2001	Avg.	#Years
90Ab1322	178.4	221.9	267.4	203.5	241.1	222.5	5
Otana	176.2	191.8	225.3	207.5	198.0	199.8	5
Monida	180.7	175.6	247.8	243.5	200.1	209.5	5
Rio Grande	182.6	202.6	243.1	203.0	205.5	207.4	5
ABSP 9-2	0.0	0.0	262.6	208.8	221.1	216.4	3
Ajay	196.1	184.2	233.2	183.2	202.0	199.8	5
L.S.D. (05)	21.95	26.40	31.70	34.60	26.17		
C.V.	8.05	8.77	8.13	10.99	7.65		

Bozeman Irrigated - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	180.1	177.4	224.8	224.0	153.0	133.0	186.5	192.4	183.9	8
Otana	169.5	146.8	208.8	188.9	146.1	142.0	161.5	190.8	169.3	8
Monida	175.6	153.1	229.6	222.6	147.5	140.5	178.1	182.0	178.6	8
Rio Grande	180.9	142.5	211.4	211.2	139.6	137.3	194.1	185.8	175.4	8
ABSP 9-2	0.0	0.0	230.3	224.8	160.2	149.3	195.8	204.5	192.4	6
Ajay	170.1	153.9	184.2	194.0	130.6	126.0	172.9	173.1	163.1	8
L.S.D. (05)	13.26	18.44	15.20	15.20	12.23	13.91	22.15	18.09		
C.V.	5.88	8.93	5.18	5.10	5.90	7.51	7.83	6.96		

Kalispell High Moisture - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1998	1999	2000	2001	Avg.	#Years
90Ab1322	35.3	37.2	38.2	38.2	37.7	32.7	31.6	35.8	7
Otana	38.4	39.4	39.6	39.4	39.6	36.3	36.1	38.4	7
Monida	34.8	38.0	38.2	38.7	36.6	31.7	33.7	36.0	7
Rio Grande	34.7	37.2	37.2	38.0	38.5	34.5	31.1	35.9	7
ABSP 9-2	0.0	0.0	0.0	37.8	38.2	33.9	35.5	37.2	4
Ajay	34.6	38.1	37.5	36.8	36.7	32.1	31.8	35.4	7

Sidney Irrigated - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	39.0	31.3	39.3	34.5	35.7	37.7	35.0	31.0	35.4	8
Otana	41.5	31.3	40.0	35.8	37.5	38.7	38.2	33.0	37.0	8
Monida	39.0	31.5	38.5	34.5	36.0	35.7	35.5	29.8	35.1	8
Rio Grande	38.3	32.7	39.5	33.3	36.2	36.3	34.8	31.0	35.3	8
ABSP 9-2	0.0	0.0	0.0	36.3	37.5	37.5	37.7	33.3	37.2	5
Ajay	38.8	30.5	39.0	33.8	35.2	36.3	34.7	30.3	34.8	8

Huntley Irrigated - Test Weight (lb/bu)

VARIETY	1994	1995	1999	2000	2001	Avg.	#Years
90Ab1322	34.3	33.8	36.1	41.1	34.2	35.9	5
Otana	35.3	34.8	38.2	41.7	35.9	37.2	5
Monida	35.1	31.8	36.6	40.1	33.6	35.4	5
Rio Grande	32.6	33.0	35.7	40.4	33.5	35.0	5
ABSP 9-2	0.0	0.0	37.6	42.4	36.9	37.7	3
Ajay	34.2	32.7	35.6	39.8	33.3	35.1	5

Bozeman Irrigated - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	39.6	42.4	40.9	41.3	35.1	36.4	35.5	39.4	38.8	8
Otana	41.6	41.4	42.0	40.4	38.4	40.0	37.7	40.3	40.2	8
Monida	40.6	42.4	41.7	39.7	34.4	36.7	33.1	38.2	38.3	8
Rio Grande	39.9	41.5	40.5	39.3	34.3	36.4	37.3	38.9	38.5	8
ABSP 9-2	0.0	0.0	42.0	42.9	38.9	40.4	38.4	41.5	41.5	6
Ajay	40.3	39.6	39.1	39.1	35.9	38.4	35.8	38.4	38.3	8

1994-2001 90Ab1322 Dryland Oat Summary

Variety	#	Yield	Test		#	Heading Date	#	Plant Height
	Locs	bu/ac	Locs	Weight lb/bu	Locs	days from Jan.1	Locs	inches
90Ab1322	39	93.5	39	33.3	37	174.4	38	29.4
Otana	39	91.4	39	35.9	37	174.2	38	37.8
Monida	39	96.6	39	33.8	37	176.3	38	34.6
Rio Grande	39	94.1	39	33.9	37	171.7	38	31.1
ABSP 9-2	26	94.2	26	35.5	24	173.1	25	32.2
Ajay	39	84.8	39	33.8	37	174.2	38	26.9

Havre Dryland - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	77.2	156.3	77.0	99.2	98.4	106.1	72.5	37.5	90.5	8
Otana	88.5	153.8	87.4	95.9	100.2	108.7	73.9	33.6	92.7	8
Monida	85.0	161.3	88.4	93.9	97.9	103.8	80.5	37.7	93.6	8
Rio Grande	88.5	162.0	86.0	97.0	103.1	97.4	81.0	36.3	93.9	8
ABSP 9-2	0.0	0.0	0.0	92.4	93.0	111.3	77.0	29.7	88.2	5
Ajay	69.8	141.0	63.7	90.3	87.3	98.0	66.0	34.5	81.3	8
L.S.D. (05)	15.52	21.20	7.32	8.81	9.62	18.40	9.02	7.65		
C.V.	11.10	8.71	5.48	3.16	5.98	11.30	7.99	12.94		

Sidney Dryland - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	100.1	121.1	86.2	127.0	144.0	169.4	149.7	116.5	126.8	8
Otana	115.5	114.1	73.4	108.9	147.6	160.0	143.5	102.4	120.7	8
Monida	131.2	129.5	84.2	120.7	151.2	178.0	152.2	117.8	133.1	8
Rio Grande	129.7	119.5	76.4	101.7	140.7	164.7	134.0	95.4	120.3	8
ABSP 9-2	0.0	0.0	81.8	134.4	146.6	168.0	152.2	111.4	127.0	6
Ajay	127.0	105.4	74.9	119.4	136.5	143.0	126.8	90.2	115.4	8
L.S.D. (05)	27.06	13.95	11.29	15.50	8.57	16.60	12.25	15.07		
C.V.	14.78	7.79	14.62	7.80	3.64	6.40	5.42	8.35		

1994-2001 90Ab1322 Dryland Oat Summary (cont.)

Sidney Recrop - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	78.9	88.5	30.3	83.7	85.6	124.9	37.4	90.8	77.5	8
Otana	62.9	86.7	44.3	83.5	103.8	127.2	41.4	91.9	80.2	8
Monida	64.5	91.6	37.2	93.6	95.9	136.2	37.6	100.4	82.1	8
Rio Grande	78.1	80.6	41.0	72.5	102.9	128.7	38.4	92.8	79.4	8
ABSP 9-2	0.0	0.0	0.0	75.0	93.4	136.2	41.5	95.8	81.1	5
Ajay	62.7	80.1	38.5	70.4	82.1	112.8	30.2	89.0	70.7	8
L.S.D. (05)	N.S.	8.94	10.10	7.20	10.74	7.92	6.78	16.73		
C.V.	17.30	6.86	17.67	5.20	6.86	3.98	11.92	10.74		

Moccasin Dryland - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	60.5	105.2	63.0	115.1	78.6	69.2	74.7	84.9	81.4	8
Otana	57.4	106.3	65.7	101.9	78.3	74.1	72.0	76.9	79.1	8
Monida	56.5	105.0	57.8	111.6	88.3	70.3	81.3	83.5	81.8	8
Rio Grande	58.1	106.4	69.1	98.6	65.1	79.6	81.1	96.6	81.8	8
ABSP 9-2	0.0	0.0	0.0	111.1	61.9	76.7	75.0	88.7	79.6	5
Ajay	46.3	103.8	57.7	93.1	63.5	68.2	65.6	80.0	72.3	8
L.S.D. (05)	16.72	14.29	13.95	16.40	9.91	7.91	6.69	N.S.		
C.V.	16.74	9.06	14.88	9.22	8.00	7.07	6.07	10.30		

Huntley Dryland - Yield (bu/ac)

VARIETY	1994	1995	1996	1997	1999	2000	2001	Avg.	#Years
90Ab1322	76.2	161.1	93.0	123.8	80.8	67.7	35.6	91.2	7
Otana	89.0	133.0	98.3	116.9	62.8	51.7	31.3	83.3	7
Monida	96.6	150.9	91.3	134.7	65.3	64.9	40.7	92.1	7
Rio Grande	98.6	143.8	96.9	135.8	78.3	68.7	43.7	95.1	7
ABSP 9-2	0.0	0.0	101.0	128.2	81.2	71.7	33.7	94.6	5
Ajay	77.3	138.9	80.2	115.2	74.8	67.9	35.5	84.2	7
L.S.D. (05)	16.66	20.38	13.19	14.30	11.96	12.41	9.87		
C.V.	11.99	9.05	9.61	6.98	13.21	12.98	16.33		

1994-2001 90Ab1322 Dryland Oat Summary (cont.)

Havre Dryland - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	30.7	33.9	29.2	30.6	27.6	29.1	33.1	36.1	31.3	8
Otana	33.2	37.0	33.0	33.4	31.6	33.1	35.4	36.8	34.2	8
Monida	30.2	33.5	29.3	30.2	28.6	29.3	33.4	35.9	31.3	8
Rio Grande	31.5	34.9	31.3	32.0	29.7	31.8	32.7	34.0	32.2	8
ABSP 9-2	0.0	0.0	0.0	33.8	30.8	33.5	35.8	37.0	34.2	5
Ajay	32.5	33.5	31.1	33.1	28.4	30.6	32.9	35.5	32.2	8

Sidney Dryland - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	39.0	31.3	39.3	34.5	35.7	37.7	35.0	31.0	35.4	8
Otana	41.5	31.3	40.0	35.8	37.5	38.7	38.2	33.0	37.0	8
Monida	39.0	31.5	38.5	34.5	36.0	35.7	35.5	29.8	35.1	8
Rio Grande	38.3	32.7	39.5	33.3	36.2	36.3	34.8	31.0	35.3	8
ABSP 9-2	0.0	0.0	0.0	36.3	37.5	37.5	37.7	33.3	37.2	5
Ajay	38.8	30.5	39.0	33.8	35.2	36.3	34.7	30.3	34.8	8

Sidney Recrop - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	34.6	39.5	28.4	29.7	28.5	36.5	38.2	36.5	34.0	8
Otana	41.3	38.8	33.6	32.8	33.0	38.5	39.0	38.0	36.9	8
Monida	35.7	38.5	30.2	31.8	28.2	36.0	37.0	36.0	34.2	8
Rio Grande	35.8	38.3	29.5	30.8	30.5	36.0	36.7	35.7	34.2	8
ABSP 9-2	0.0	0.0	0.0	31.5	31.3	38.5	39.2	37.3	35.7	5
Ajay	36.3	38.3	31.3	31.0	30.0	35.3	37.2	34.7	34.2	8

Moccasin Dryland - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1998	1999	2000	2001	Avg.	#Years
90Ab1322	36.1	34.8	30.4	38.5	37.6	28.7	30.4	29.0	33.2	8
Otana	37.1	35.5	35.4	39.3	39.0	32.8	31.9	35.5	35.8	8
Monida	35.4	33.2	31.5	37.9	36.5	27.4	35.1	32.2	33.6	8
Rio Grande	35.3	35.8	31.3	36.3	35.5	27.5	32.4	30.9	33.1	8
ABSP 9-2	0.0	0.0	0.0	38.4	36.4	30.1	31.3	34.4	34.5	5
Ajay	33.7	36.6	33.9	37.4	37.6	28.0	31.7	30.6	33.7	8

1994-2001 90Ab1322 Dryland Oat Summary (cont.)

Huntley Dryland - - Test Weight (lb/bu)

VARIETY	1994	1995	1996	1997	1999	2000	2001	Avg.	#Years
90Ab1322	24.4	32.2	28.2	36.2	26.6	38.0	38.1	32.0	7
Otana	30.9	34.8	34.6	37.5	28.6	37.2	40.7	34.9	7
Monida	31.1	32.7	31.9	37.1	26.2	37.6	37.2	33.4	7
Rio Grande	28.1	34.4	34.9	36.1	25.5	37.5	39.8	33.8	7
ABSP 9-2	0.0	0.0	33.2	39.5	28.3	38.9	40.6	34.5	5
Ajay	26.5	34.3	32.2	35.9	28.2	36.8	38.8	33.2	7

1994-2001 90Ab1322 Lodging Summary

Variety	2001 Kalispell	2001 Huntley	2000 Sidney Irr	2000 Kalispell	1999 Kalispell	1998 Sidney Irr	1998 Kalispell
90Ab1322	0.00	3.33	1.67	0.33	0	2.96	5.00
Otana	0.10	8	3	1.50	2	1.09	7.67
Monida	0.40	9	3.33	5.00	1	1.92	8.67
Rio Grande	1.22	4.67	1	3.17	1	1.86	8.00
ABSP 9-2	0.07	3.67	2.67	4.33	0.67	6.39	9.00
Ajay	0.00	2.33	0	+-+2.00	0	0.00	4.33

1994-2001 90Ab1322 Lodging Summary (cont)

Variety	1997 Bozeman	1996 Sidney Irr	1996 Kalispell	1995 Sidney Irr	1995 Kalispell	Average
90Ab1322	0	0	1	0	0	1.90
Otana	3.33	1.67	2	1.67	1.5	3.34
Monida	9.43	5.5	5	5.5	0.73	4.19
Rio Grande	0	1.67	4	1.67	15.73	2.99
ABSP 9-2	0	0	0	0	0	3.83
Ajay	0	0	2.33	0	0	1.24

90Ab1322 and selected varieties grown under irrigation at Aberdeen, Idaho, 1993-2001.

	Yield	Test Wt	Heading	Plant Ht		Kernel Wt		Beta-		
	bu/ac	lb/bu	Date	inches	Lodging	grams.	Groat %	Protein	Glucan	Oil
# of years	9	9	9	9	7	8	8	6	6	3
90Ab1322	228.2	42.8	180.6	35.1	3.5	39.5	71.5	17.3	4.7	6.6
Powell	226.6	42.2	181.9	34.3	7.0	39.0	72.0	16.1	4.3	8.0
Monida	222.2	43.3	182.2	42.2	12.1	39.9	72.1	17.0	5.2	7.4
Rio Grande	219.0	42.9	176.6	36.5	6.8	41.1	72.0	17.2	4.4	8.1
Derby	218.4	44.9	180.6	47.1	8.8	49.5	74.8	16.3	4.0	5.6
Cayuse	215.1	42.1	179.1	38.3	9.0	42.8	70.4	17.2	4.2	8.1
Ajay	211.6	42.3	179.6	31.6	1.1	40.0	71.7	18.3	5.0	7.7
Otana	196.4	43.9	179.0	44.0	6.4	39.3	73.2	18.1	4.9	6.2

1994-2001 Spring Oat T-PAIRED RESULTS vs 90Ab1322 Yield (bu/ac)

All Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	
CI 9252	Otana	126.5	67	-8.2	-4.3	.000
CI483126	Monida	135.5	67	.8	.4	.691
81Ab5792	Rio Grande	130.6	67	-4.1	-2.4	.018
ABSP 9-2	ABSP 9-2	136.6	44	.3	.2	.877
PI537436	Ajay	121.0	67	-13.7	-8.8	.000
PI591810	Whitestone	129.5	62	-6.1	-2.8	.006

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 134.7 (N= 67)

Irrigated Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	
CI 9252	Otana	175.4	28	-16.6	-5.0	.000
CI483126	Monida	189.6	28	-2.4	-.6	.583
81Ab5792	Rio Grande	181.5	28	-10.5	-4.0	.000
ABSP 9-2	ABSP 9-2	196.7	18	-.1	-.0	.982
PI537436	Ajay	171.4	28	-20.6	-8.2	.000
PI591810	Whitestone	177.4	25	-14.5	-3.2	.004

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 192.0 (N= 28)

1994-2001 Spring Oat T-PAIRED RESULTS vs 90Ab1322**Dryland Locations**

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

-						
CI 9252	Otana	91.4	39	-2.1	-1.3	.199
CI483126	Monida	96.6	39	3.1	2.2	.034
81Ab5792	Rio Grande	94.1	39	.5	.3	.772
ABSP 9-2	ABSP 9-2	95.0	26	.6	.5	.627
PI537436	Ajay	84.8	39	-8.7	-5.6	.000
PI591810	Whitestone	94.8	36	-.6	-.4	.701

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THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 93.5 (N= 39)

1994-2001 Spring Oat T-PAIRED RESULTS vs 90Ab1322
Test Weight (lb/bu)**All Locations**

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

-						
CI 9252	Otana	36.9	67	2.2	9.9	.000
CI483126	Monida	34.9	67	.1	.8	.443
81Ab5792	Rio Grande	34.9	67	.2	.9	.359
ABSP 9-2	ABSP 9-2	36.6	44	2.0	9.3	.000
PI537436	Ajay	34.7	67	.0	.1	.899
PI591810	Whitestone	36.0	62	1.2	5.2	.000

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THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 34.7 (N= 67)

Irrigated Locations

ID P-VALUE	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE
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CI 9252	Otana	38.3	28	1.7	7.0	.000
CI483126	Monida	36.3	28	-.3	-1.5	.145
81Ab5792	Rio Grande	36.3	28	-.3	-1.7	.109
ABSP 9-2	ABSP 9-2	38.3	18	1.9	6.4	.000
PI537436	Ajay	36.0	28	-.6	-3.1	.004
PI591810	Whitestone	37.8	25	1.2	4.6	.000

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 36.6 (N= 28)

Dryland Locations

ID P-VALUE	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE
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CI 9252	Otana	35.9	39	2.6	7.8	.000
CI483126	Monida	33.8	39	.5	1.6	.110
81Ab5792	Rio Grande	33.9	39	.5	1.7	.092
ABSP 9-2	ABSP 9-2	35.4	26	2.1	6.8	.000
PI537436	Ajay	33.8	39	.5	1.6	.112
PI591810	Whitestone	34.8	36	1.2	3.5	.001

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 33.3 (N= 39)

1994-2001 Spring Oat T-PAIRED RESULTS vs 90Ab1322 Plant Height (inches)

All Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

CI 9252	Otana	39.9	66	8.8	27.6	.000
CI483126	Monida	37.1	66	6.0	19.8	.000
81Ab5792	Rio Grande	32.8	66	1.7	7.8	.000
ABSP 9-2	ABSP 9-2	35.9	43	3.7	12.4	.000
PI537436	Ajay	28.4	66	-2.7	-12.8	.000
PI591810	Whitestone	35.4	61	4.2	16.3	.000

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 31.1 (N= 66)

Irrigated Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

CI 9252	Otana	42.7	28	9.4	22.0	.000
CI483126	Monida	40.4	28	7.1	16.9	.000
81Ab5792	Rio Grande	35.0	28	1.7	6.4	.000
ABSP 9-2	ABSP 9-2	37.8	18	4.6	15.4	.000
PI537436	Ajay	30.4	28	-2.9	-10.0	.000
PI591810	Whitestone	37.9	25	4.8	10.8	.000

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 33.3 (N= 28)

Dryland Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

-						
CI 9252	Otana	37.8	38	8.3	18.7	.000
CI483126	Monida	34.7	38	5.2	13.6	.000
81Ab5792	Rio Grande	31.1	38	1.7	5.1	.000
ABSP 9-2	ABSP 9-2	34.5	25	3.0	7.2	.000
PI537436	Ajay	26.9	38	-2.5	-8.5	.000
PI591810	Whitestone	33.6	35	3.8	12.6	.000

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THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 29.4 (N= 38)

1994-2001 Spring Oat T-PAIRED RESULTS vs 90Ab1322

Heading Date (days from Jan. 1)

All Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

-						
CI 9252	Otana	175.9	65	-.2	-.8	.413
CI483126	Monida	177.9	65	1.8	8.4	.000
81Ab5792	Rio Grande	173.6	65	-2.5	-12.3	.000
ABSP 9-2	ABSP 9-2	173.5	42	-1.3	-3.7	.001
PI537436	Ajay	176.2	65	.1	.4	.662
PI591810	Whitestone	176.9	60	.8	5.5	.000

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THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 176.1 (N= 65)

Irrigated Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

CI 9252	Otana	178.2	28	-.3	-1.0	.344
CI483126	Monida	180.0	28	1.6	5.0	.000
81Ab5792	Rio Grande	176.0	28	-2.4	-11.2	.000
ABSP 9-2	ABSP 9-2	177.5	18	-1.3	-4.3	.000
PI537436	Ajay	178.8	28	.4	2.1	.046
PI591810	Whitestone	180.2	25	.9	4.9	.000

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 178.4 (N= 28)

Dryland Locations

ID	NAME	ACTUAL	NO.	MEAN	T-PAIRED	
P-VALUE		MEAN	OBS	DIFF	VALUE	

CI 9252	Otana	174.2	37	-.2	-.4	.672
CI483126	Monida	176.3	37	1.9	6.7	.000
81Ab5792	Rio Grande	171.7	37	-2.6	-8.1	.000
ABSP 9-2	ABSP 9-2	170.4	24	-1.2	-2.2	.039
PI537436	Ajay	174.2	37	-.2	-.6	.538
PI591810	Whitestone	174.8	34	.7	3.4	.002

THE MEAN FOR THE REFERENCE VARIETY (90Ab1322) IS: 174.4 (N= 37)