

1996

**WESTERN SPRING WHEAT
&
WESTERN WINTER WHEAT

VARIETY TRIAL DATA**

**CENTER, FRUITA HAYDEN
&
YELLOW JACKET**

Colorado State University, U.S. Department of Agriculture and Colorado counties cooperating.
Cooperative Extension programs are available to all without discrimination.

Results of Colorado irrigated western spring wheat variety trial at Fruita in 1996.

**Fruita Research Center
by Harold Golus**

Variety	Yield	Test Weight	Heading Date¹	Plant Height
	bu/ac	lbs/ac	date	inches
2375	70.3	61.4	157	25
Blanca	66.7	55.4	159	26
ID3775	62.8	58.0	158	25
Lloyd	61.4	57.0	160	25
Oslo	57.3	57.1	157	22
Sylvan	56.3	57.2	161	27
Klasic	51.1	58.8	154	17
Average	60.8	57.8	158	24
CV%	5.2	1.1		
LSD _(.05)	4.7	0.9		

¹Julian Date

PLANTED: April 4

HARVESTED: August 13

FERTILIZER: 20 N + 100 P₂O₅ (lbs/acre) on March 20, 1996 plus 50 N (lbs/acre) on May 14, 1996

HERBICIDE: Buctril + Harmony on May 21, 1996

INSECTICIDE: 1pt/a Lorsban on May 21, 1996

IRRIGATION: 7 applications including germination irrigation

SOIL TYPE: Younston Clay Loam

PREVIOUS CROP: Alfalfa

Results of Colorado dryland western spring wheat variety trial at Hayden in 1996.

**Dutch Williams/C.J. Mucklow
by Harold Golus**

Variety	Yield	Test Weight	Plant Height
	bu/ac	lbs/ac	inches
ID3775	14.7	64.9	21
Blanca	14.2	60.7	20
Sylvan	13.6	64.1	23
Butte 86	12.9	63.9	22
Oslo	11.8	63.9	19
Klasic	9.8	62.9	16
Average	12.8	63.4	20
CV%	16.5	1.0	
LSD _(.05)	3.2	0.9	

PLANTED: May 8

HARVESTED: September 4

FERTILIZER: None

HERBICIDE: None

PREVIOUS CROP: Wheat

COMMENTS: *Excellent deep moisture at planting, but no rainfall of any consequence till mid-summer.*

Results of Colorado irrigated hard red spring wheat variety trial at Yellow Jacket in 1996.

Southwestern Colorado Research Center

by Abdel Berrada

Variety	Yield ¹ bu/ac	Yield ² bu/ac	Test Weight lb/bu	Plant Height inches	Heading Date	Notes
Pomeral	142.5	114.0	60.5	32	6/24	
Blanca SW	138.1	110.5	59.9	36	6/24	
Lloyd DU	131.3	105.1	62.6	31	6/24	
Sylvan	130.0	104.0	62.9	36	6/24	
ID377S HW	124.6	99.7	62.5	31	6/13	
ID474	123.2	98.5	62.1	31	6/13	Small heads
Spillman	121.2	96.9	59.8	34	6/19	
ID462	109.9	87.9	61.5	30	6/13	
ID469	109.8	87.8	59.9	28	6/13	Small heads, short ht.
ID476	109.0	87.2	61.5	29	6/13	Tall off-types
Oslo	108.3	86.6	60.4	31	6/13	
MT RWA116	104.6	83.7	62.3	34	6/19	
Klasic HW	102.7	82.2	62.1	23	6/13	
Average	119.6	95.7	61.4	31		
LSD _(.05)	10.7	8.5	0.9	3		
CV%	6.2	6.2	1.0	5		

SW = Soft white

HW = Hard White

DU= Durum

¹Based on the harvested plot area (4' width)

² Takes into account the bare space (about 1 ft. wide) between plots (5' width)

PLANTED: April 8, 1996

SEEDING RATE: 90 lb/a

PLOT SIZE: 4 ft x 40 ft

HARVESTED: August 26, 1996

FERTILIZER: 120 lbs N/ac + 50 lb P₂O₅/ac

HERBICIDE/INSECTICIDE: Harmony Extra ½ oz/ac + Lorsban 1pt/ac

PRECIPITATION: April - August 3.0 inches

IRRIGATION: Sprinkler 19 inches gross water applied

SOIL TYPE: Wittco silty clay loam

PREVIOUS CROP: Pinto bean (fall chisel plowed)

***COMMENTS:** The fertilizer was broadcast and surface incorporated on April 4, 1996 prior to planting. The plots were sprayed for weeds and Russian wheat aphids on June 4, 1996. The varieties had emerged by 4/25/96 with an excellent stand. No lodging or disease problems were noted.*

Results of Colorado irrigated western winter wheat variety trial at Fruita in 1996.

**Fruita Research Center
by Harold Golus**

Variety	Yield	Test Weight	Lodged	Heading Date¹	Plant Height
	bu/ac	lbs/ac	%	date	inches
Stephens	99.8	56.7	18	144	33
Tam 107	97.9	58.8	53	137	33
UT944158	95.4	54.9	18	142	32
Malcolm	89.1	57.3	23	144	35
OR850513 H	87.4	60.1	15	143	31
Yuma	87.3	58.8	55	139	34
Halt	85.1	57.8	53	137	30
OR870512	84.5	59.7	48	145	36
OR870944	77.7	56.8	58	144	32
QT566	74.2	56.6	75	142	38
ID453	70.4	58.5	50	143	39
Manning	67.4	53.3	85	145	39
Average	84.7	57.4	46	142	34
CV%	17.3	0.9			
LSD _(.05)	21.1	0.7			

¹Julian Date

PLANTED: October 18, 1995

HARVESTED: July 23, 1996

FERTILIZER: 35 N + 90 P₂O₅ (lbs/acre) on Oct.13, 1995 plus 100 N (lbs/acre) on March 12, 1996

HERBICIDE: Harmony Extra plus 2,4-D March 11, 1996

IRRIGATION: 6 applications including germination irrigation

SOIL TYPE: Younston Clay Loam

PREVIOUS CROP: Pinto Beans

Results of Colorado dryland western winter wheat variety trial at Hayden in 1996.

**Dutch Williams/C.J. Mucklow
by Harold Golus**

Variety	Yield	Test Weight	Plant Height
	bu/ac	lbs/ac	inches
ID 465	60.8	59.9	34
UT944-158	59.0	57.7	29
UT182064	56.9	58.6	31
UT944-157	56.8	60.2	31
Promontory	56.5	59.8	27
Manning	56.1	59.8	29
OR889128 (HW)	54.9	58.2	31
Presto (TRI)	53.4	57.5	33
OR880017 (HW)	52.9	59.7	31
Fairview	52.1	59.5	31
UT150	51.8	58.0	32
ID355 (HW)	51.5	59.1	32
RWA E9 (HW)	51.0	58.9	28
UT190	50.9	59.3	30
Jeff	49.3	59.1	32
UT742149	49.1	56.2	30
Yuma	48.5	57.4	24
OR889176 (HW)	48.1	57.8	32
QT566	46.1	58.7	26
WA7761	45.3	60.3	30
Lamar	44.2	60.5	29
ID467	43.2	59.7	30
UT303	41.1	57.1	28
Wanser	37.6	55.9	29
Average	50.7	58.7	30
CV%	7.8	1.0	
LSD _(.05)	5.6	0.8	

PLANTED: October 9, 1995

HARVESTED: August 27, 1996

FERTILIZER: None

HERBICIDE: None

PRECIPITATION: Very wet fall

PREVIOUS CROP: Fallow

Results of Colorado dryland winter wheat variety trial at Yellow Jacket in 1996.

Southwestern Colorado Research Center

by Abdel Berrada

Variety	Yield lb/ac	Yield bu/ac	Test Weight lb/bu	Plant Height inches	Heading Date	Notes
Presto (Triticale)	954.2	17.4	55.0	25	6/03	
UT303	922.1	15.5	59.6	22	6/10	
ID465	841.5	15.0	56.0	23	6/10	
UT742149	836.9	14.6	57.0	21	6/10	
Manning	871.3	14.6	59.4	22	6/10	
UT150	811.9	14.3	56.3	22	6/10	
RWAE9 HW	780.1	14.0	55.8	19	6/10	
OR889128	787.9	13.8	57.3	22	6/10	
Yuma	774.9	13.6	56.5	17	6/03	
UT190	800.0	13.5	59.1	18	6/10	
UT944-158	762.3	13.3	57.3	20	6/10	
Halt	737.8	13.2	55.8	15	6/03	
Lamar	755.2	12.9	58.4	19	6/10	
Promontory	758.1	12.9	58.8	23	6/10	
Jeff	756.9	12.7	59.6	23	6/10	
ID467	774.1	12.7	61.1	20	6/10	
Fairview	696.7	12.2	57.1	20	6/10	
UT182064	702.3	12.2	57.6	21	6/10	
Wanser	664.1	11.9	56.0	24	6/10	Dwarf bunt
ID355 HW	605.0	11.6	44.0	17	6/10	
QT566	668.2	11.6	57.3	20	6/03	
Tam 107	657.3	11.6	56.8	18	6/03	
OR880017 HW	651.2	11.0	59.0	18	6/10	
OR889176 HW	559.2	9.7	58.1	18	6/10	
WA7761	474.3	7.9	59.9	20	6/10	
Average	745.0	13.0	57.1	20		
CV%	14.5	13.8	10.1	8		

HW = Hard White

PLANTED: October 26, 1995

SEEDING RATE: 40 lb/ac

PLOT SIZE: 4 ft x 40 ft

HARVESTED: July 23, 1996

FERTILIZER: Urea (46-0-0) 50 lb N/ac broadcast on 10/25/95 and surface incorporated

HERBICIDE/INSECTICIDE: None

PRECIPITATION: (Nov. 95 - June 96): 5.6"

SOIL TYPE: Wittco silty clay loam

PREVIOUS CROP: Dry bean

***COMMENTS:** The 1995-96 growing season was dry. Precipitation was approximately one-half the long-term average. All entries (except Halt and RWAE9) displayed Russian Wheat Aphid (RWA) symptoms by 5/22. Infestation was heavy on 6/3 and by 6/10 the white streaked leaves were easily noted. Anthesis was complete in all varieties by 6/24. The variety trial was not sprayed to control RWA due to the dry conditions. It was believed that the prospect for achieving an average yield was limited. The yield of the RWA resistant entries Halt and RWAE9 would indicate that moisture was the limiting factor.*