



SELECTING TRITICALE VARIETIES FOR UTAH

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VARIETY SELECTION

Variety selection should be one of the first essential considerations when a farmer elects to plant a small grain crop for reasons of economics or crop rotation. This publication is designed to assist in variety selection based on growing conditions, yield considerations, and crop quality.

The crop is considered under various production systems, and varieties are suggested based on performance in Utah. All yield information in this outline was taken from the 1996 edition of the "Small Grains Performance Trials," Research Report 156, published by the Utah Agricultural Experiment Station. Research Report 156 is available from the USU Extension Bulletin Room. Seed of many varieties of triticale not reported in this circular is available for crop production in Utah. The addition or deletion of a commercial variety does not imply approval or disapproval by Utah State University or the USDA Cooperative Extension Service. Varieties reported in this publication are those that have been tested by Utah State University and for which one, two, or three recent years of performance data are available.

DRYLAND—SPRING OR FALL PLANTED

No triticale varieties were tested for grain or forage under dryland conditions in Utah by Utah State University.

MORE INFORMATION

Information is available for other small grains from your local County Extension office:
 Barley (AG/Grains/01); Oats (AG/Grains/02); Wheat (AG/Grains/04)
 or from the Extension web page, ext.usu.edu

IRRIGATED—FALL PLANTED

Table 1. 1 and 3-yr avg. for winter triticale varieties tested for grain production under irrigation in Utah: 1994, 1995, and 1996.

Variety	Grain Type	Logan		
		‡Tons/acre		Test weight (lbs/bu)
		*1-yr avg	3-yr avg	
Bolero	T	3.99	3.67	51.0
Trical Stan 1	T	3.95		52.9
†Nugaines	SW	3.44	3.44	60.8

*Yields are for 1996.

†Nugaines is a soft white (SW) wheat to compare yields of common triticale (T) and wheat varieties.

‡Reported in tons/acre instead of bushels/acre because the legal test weight of wheat and triticale is different.

IRRIGATED—SPRING PLANTED LOGAN

Table 2. 1 and 3-yr avg. for spring triticale varieties tested for grain production under irrigation in Utah: 1994, 1995, and 1996.

Variety	Grain Type	Logan		
		‡Tons/acre		Test weight (lbs/bu)
		*1-yr avg	3-yr avg	
Trical Victoria	T	2.16	2.50	51.4
Trical 2700	T	2.15		50.6
†Penawawa	SW	2.10	2.53	60.7

*Yields are for 1996.

†Penawawa is a soft white wheat (SW) to compare yields of common triticale (T) and wheat varieties.

‡Reported in Tons/acre instead of Bushels/acre because the legal test weight of wheat and triticale is different.

IRRIGATED—SPRING PLANTED

Table 3. 2-yr avg. for spring triticale varieties tested for grain production under irrigation in Utah: 1995, and 1996.

Variety	Grain type	‡Tons/A				
		Logan	Riverside	Morgan	Palmyra	Avg
Trical Victoria	T	2.40	2.81	3.50	2.82	2.88
†Penawawa	SW	2.65	2.85	3.70	3.05	3.06

†Penawawa is a soft white (SW) wheat to compare yields of common triticale (T) and wheat varieties.

‡Reported in tons/acre instead of bushels/acre because the legal test weight of wheat and triticale is different.

IRRIGATED—SPRING PLANTED

Table 4. 1-yr avg. for spring triticale varieties tested for grain production under irrigation in Utah: 1996.

Variety	Grain type	‡Tons/Acre				
		Logan	Riverside	Morgan	Palmyra	Avg
Trical Victoria	T	2.16	2.95	3.21	2.32	2.66
Trical 2700	T	2.15	2.06	3.49	1.85	2.39
†Penawawa	SW	2.10	3.10	3.20	2.50	2.73

†Penawawa is a soft white (SW) wheat to compare yields of common triticale (T) and wheat varieties.

‡Reported in tons/acre instead of bushels/acre because the legal test weight of wheat and triticale is different.

OVERVIEW OF TESTED VARIETIES

Table 5. 1 and 3-yr avg. for triticale varieties tested in Utah: 1994, 1995, and 1996.

Variety	Grain type	Spring (S) Winter (W)	Irrigated (I) (Dryland (D))	Test weight (lbs/bu)	Protein (Percent)	Yield (Tons/A)
Bolero	T	W	I	51.0	12.1	3.67
*Trical Stan 1	T	W	I	52.9	12.6	3.95
Trical Victoria	T	S	I	53.7	12.3	2.79
*Trical 2700	T	S	I	52.5	12.2	2.39
Penawawa	SW	S	I	62.0	13.6	2.96
Nugaines	SW	W	I	60.8	12.8	3.44

*Test weight, protein, and yield for 1996.

VARIETY DESCRIPTIONS

“Trical Victoria” spring triticale: Trical Victoria is an awned, white glumed, standard height, grain type, early to mid-season maturing variety that was released in 1991. It has good straw strength and lodging resistance and is very tolerant to diseases, but is moderately susceptible to stripe rust.

“Trical Stan 1” winter triticale: Trical Stan 1 is a tall forage type variety, with stiff straw and white glumes, released in 1990. It produces quick ground cover and early forage in the spring with good regrowth after harvesting for forage

“Trical 2700” spring triticale: Trical 2700 is an awned, white glumed, medium tall, medium maturing, variety released in 1993. It is a forage and grain type with good straw strength and high leaf to stem ratio.

“Bolero” winter triticale: Bolero is an awned, white glumed, early to mid-season maturing grain type variety. It has good stiff straw of medium height (48 in.) with very good lodging resistance. Seed is not readily available in most Utah locations.

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