

Experiments with Barley - 1960

Experiments with barley in 1960 included varietal field plot trials, the Great Plains nursery planting and an F-2 and F-3 nursery planting of material furnished by Dr. Glenn S. Peterson, North Dakota State University.

Field Plot Trials

Yields from the field plot trials are given in Tables 21 and 22. Barley yields were high in this year's trial, perhaps the best of any of the small grains. Traill, Tregal, Betzes and Parkland were high yielding varieties.

Nursery Trials

The Great Plains Barley nursery is summarized in Table 23.

The F-2 and F-3 plantings for Dr. Peterson were harvested according to his directions and the material forwarded to him at the North Dakota State University.

Table 21. Agronomic Data from the Barley Variety Trial - 1960									
Description	Yield in Bushels Per Acre					Test Wt.	Dates		Height Inches
	1	2	3	4	Av.		Head	Ripe	
Titan	35.6	45.2	34.2	42.4	39.4	44.0	6-24	7-22	31
Kindred	38.9	52.7	38.2	45.5	43.6	45.0	23	20	39
Traill	45.7	56.8	57.4	54.3	53.6	47.0	23	20	30

Liberty	47.2	42.9	55.1	49.9	48.8	42.5	22	20	29
Tregal	53.9	40.8	61.7	57.6	53.5	45.5	23	20	31
Manchuria	37.8	32.7	38.5	35.3	36.1	44.0	23	20	32
Forrest	49.4	35.9	57.9	47.3	47.6	45.0	25	20	29
Swan	48.1	37.4	52.4	45.1	45.8	47.0	24	20	30
Husky	42.6	32.9	52.5	42.4	42.6	43.0	26	22	30
Parkland	58.6	38.5	57.8	45.7	50.2	46.0	24	20	31
Vantage	53.4	29.7	49.8	38.0	42.7	44.0	25	21	32
Hannchen	65.5	35.9	51.4	40.6	48.4	46.0	26	22	27
Betzes	65.2	46.6	46.3	65.9	56.0	45.5	23	20	28
Sioux	53.7	37.7	49.2	42.9	45.9	42.5	25	20	31
B-116	48.8	37.4	48.3	42.4	44.2	44.5	22	20	30
B-117	50.1	40.6	48.0	46.2	46.2	44.0	22	20	27
B-118	48.8	38.8	37.1	43.7	42.1	43.0	19	20	28
B-119	46.9	39.5	43.0	41.5	42.7	45.5	19	20	28

Std. error % 14.1 LSD @ 5% 9.2 Bushels, Seeded April 16, 1960 on Summerfallow, Fertilized at 86 Lbs. Per Acre 11-48-0

Table 22. Comparative Yields - Barley Variety Trial - 1960

Description	Yields in bushels Per Acre						Averages	
	1955	1956	1957	1958	1959	1960	'55-60	'57-60
Titan	43.3	21.5	59.0	66.2	35.9	39.4	44.2	50.1
Kindred	37.2	16.4	30.3	33.7	22.8	43.6	30.7	32.6
Traill	48.6	21.2	48.8	62.4	31.2	53.6	44.3	49.0
Tregal	45.6	23.7	47.0	56.5	34.5	53.5	43.5	47.9
Manchuria	38.7	23.4	42.5	38.7	20.3	36.1	33.3	34.4
Husky	48.6	26.4	56.6	60.2	29.6	42.6	44.0	31.5
Vantage	39.2	24.6	55.4	63.4	27.8	42.7	42.2	47.3
Hannchen	42.4	25.1	49.9	62.1	30.5	48.4	43.1	47.7
Parkland		18.5	43.5	52.8	25.6	50.2		43.0
Liberty			50.2	58.4	33.6	48.8		47.8
Forrest			49.4	57.2	29.7	47.6		46.0
Betzes			53.3	65.3	31.7	56.0		51.6

Description	C. I. No.	Yield in Bu. Per Acre				Test Wt.	Dates		Height Inches
		1	2	3	Av.		Headed	Ripe	
Flynn I	5911	30.0	19.8	23.0	24.3	40.0	6-24	7-21	27

Munsing	6009	46.8	23.8	29.3	33.3	46.5	21	18	24
Otis	7557	35.3	30.0	27.8	31.0	45.0	21	17	24
Hiland	9530	32.0	18.0	29.8	26.6	41.0	24	21	27
P. I. 168250	7837	30.5	31.8	39.5	33.9	43.0	22	18	25
Dekap	3351	30.0	24.0	29.3	27.8	42.0	24	20	26
Trebi x Spartan	10003	36.0	35.3	48.0	39.8	47.0	22	17	29
C. I. 7114 x Velvon II	10006	37.3	13.5	39.3	30.0	41.5	16	22	31
Korol	6300	33.5	34.3	25.3	31.0	40.0	24	17	25
Piroline	9558	29.0	36.0	23.5	29.5	43.0	25	22	28
Glacier x Titan	10421	32.3	37.0	39.3	36.2	39.5	25	18	30
Velvon II x Spartan	10422	34.5	27.8	27.8	30.0	41.0	21	16	30
Betzes	6398	28.5	28.5	26.5	27.8	41.0	29	25	24
Vantage x Compana	10860	22.3	30.3	27.3	26.6	39.0	30	25	28
36 AB 1991 x Titan	10639	33.8	38.5	25.3	32.5	43.0	24	18	30
Glacier x Compana	10861	33.3	35.3	23.8	30.8	39.0	25	18	28
Arivat x Afghanistan	10076	32.0	40.3	28.0	33.4	41.0	16	17	28
Date Seeded - April 20, 1960									

[Back to 1960 Research Reports Table of Contents](#)
[Back to Research Reports](#)

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