

Project 5023
Small Grains Investigations

All work with small grains, wheat, oats, or barley, is carried on under this project, whether fall or spring seeded, irrigated or dry, on or off station.

The 59-60 budget for this work is \$4614.45.

Work done and results included in this report in the order listed is as follows:

Winter Wheat

Western Regional Hard Red	Station	25	Varieties
Intrastate Hard Red	Station	25	"
Short or stiff straw winter	Station	11	"
Off-Station winter wheat	Sanders County	10	"
" " " "	Lake "	10	"
" " " "	Ravalli "	10	"
" " " "	Missoula "	10	"
" " " "	Mineral "	10	"
Foundation Seed Production	Station		
Winter Wheat Summary and Comments			

Spring Wheat

Advance Yield Spring Wheat	Station	20	Varieties	Irrigated
Advance Yield Spring Wheat	Station	20	"	Dryland
Western Regional White Wheat	Station	15	"	Dryland
Off-Station Spring Wheat	Lake County	10	"	Irrigated
Off-Station Spring Wheat	Ravalli County	10	"	Irrigated
Off-Station Spring Wheat	Missoula County	10	"	Dryland
Off-Station Spring Wheat	Mineral County	10	"	Dryland
Single rows of Idaho Selections				
Foundation Seed Production --- Wheat Quality Plots				
Spring Wheat Summary and Comments				

Winter Barley

Male-sterile Character.

Spring Barley

Malting and Advance Yield	Station	10	Varieties	Irrigated
Intrastate and Station	Station	25	"	Irrigated
Advance Yield	Station	9	"	Dryland
Intrastate and Station	Station	25	"	Dryland
Off-Station Barley	Lake County	10	"	Irrigated
Off-Station Barley	Ravalli County	10	"	Irrigated
Off-Station Barley	Missoula County	10	"	Dryland
Off-Station Barley	Mineral County	10	"	Dryland
Barley Feed Strips		6	"	Dry. & Irrig.

Western Regional Hard Red Winter Wheat Nursery Creston, 1959
 Seeded Sept. 22, Harvested August 13,

Variety	Number	Ht. Ins.	Grams from 16 feet				Total	Bu/A	Lb. bu.
			1	2	3	4			
Columbia	12928	34	475	415	380	215	1485	37.1	63.0
Westmont	12930	34	535	530	335	378 ¹	1778	44.5	62.75
Itana	12933	40	480	340	360	385	1565	39.1	62.25
Karakof	1442	42	435	385	310	295	1425	35.6*	62.0
Rio	10061	42	470	390	295	370	1525	38.1	59.75
B urt	12696	34	405	425	355	355	1540	38.5	62.25
Wasatch	11925	42	410	335	275	265	1285	32.1**	62.0
Cheyenne	8885	42	465	435	545	305	1750	43.8	62.75
Chey. 57	13426	44	370	255	350	375	1350	33.8*	60.5
Itana Sel.	13434	40	585	470	385	270	1710	42.8	62.5
Rego	13181	44	395	315	340	310	1360	34.0	60.25
A.G. 6096	13430	50	280	210	185	150	825	20.6**	43.0
Y x	13441	42	480	430	425	350	1685	42.1	62.25
B X U K	13442	44	575	285	315	380	1555	38.9	60.0
YTO 9		46	515	450	285	250	1500	37.5	60.5
YTO 10		46	460	305	365	310	1440	36.0*	61.0
YTO 14		46	490	355	455	275	1575	39.4	61.25
YTO 27		48	525	310	460	375	1670	41.8	61.5
YTO 29		44	410	360	385	340	1495	37.4	60.0
YTO 46		44	545	360	265	270	1440	36.0*	60.5
YTO 66		42	495	450	380	305	1630	40.8	63.0
YTO 117		46	485	405	330	240	1460	36.5	60.75
YTO 60		44	500	445	410	310	1665	41.6	62.5
Itana Mont. Sel		38	325	465	315	375	1480	37.0	63.5
YXR20XW		44	350	330	330	245	1255	31.4**	60.0

¹ - Calculated missing plot

Mean Yield..... 37.5
 S.E. \bar{x} 3.0318
 L.S.D.(5%).... 8.5
 L.S.D.(1%).... 11.3
 C.V. 8.10%

* Varieties yielding significantly less than Westmont (5%).
 ** Varieties yielding significantly less than Westmont (1%).

Analysis of Variance

Source	D.F.	Mean Square	F
Replications	3	99425.0	27.04**
Variety	24	9637.25	2.62**
Error	71	3676.591	
Total	98		