

Yields of Winter Wheat Grown in 1/55 Acre Plots

Denton, Texas. 1931

Variety	C.I.No.	Ser. I	Ser. II	Ser. III	Ser. IV	Ser. V	Average
Tennarq	6936	40.56	43.80	43.83	42.22	41.76	42.39
Prelude x Kanred	8886	41.60	44.06	42.11	41.37	39.70	41.77
Sutton(A local wheat)		38.56	41.80	40.56	40.74	40.45	40.38
Kawvale	8180	39.08	40.62	38.62	35.29	39.82	38.69
Denton (Checks)	8265	39.45	40.48	36.78	38.19	37.10	38.40*
Mediterranean Sel. 3015-72		36.79	38.16	39.47	37.18	39.42	38.20
Fulcaster	6471	35.64	37.64	34.49	32.83	32.89	34.70
Kanred	5146	35.24	39.19	37.93	28.19	32.89	34.69
Kharkof	1442	36.15	37.55	33.58	32.83	32.43	34.47
Mediterranean Sel. 3015-81		32.26	34.95	33.86	34.49	36.61	34.43
Blackhull	6251	34.60	36.38	30.94	34.15	36.03	34.42
Nebraska 60	6250	33.92	35.01	28.99	29.16	32.26	31.87
Harvest Queen	6199	29.16	27.62	28.47	26.53	29.45	28.25
Early Blackhull	8866	24.92	25.79	26.07	25.56	27.67	26.00
Nebraska 28	5147	11.92	6.36	5.44	5.10	4.99	6.76

* Average 16 plots.

Single Plots- Mediterranean Selections.

Selection 5933-7	29.39
5933-20	35.01
5933-23	29.68
5933-32	37.41
5933-34	34.83
5933-35	28.47
5933-36	29.51
5933-38	30.02
8116-12	37.07

Single Plots- Later planting- AcreH(11-20)

White Mediterranean	45.93
Denton	43.48

Yield of Wheat Varieties Grown at Price Memorial College

Amarillo, Texas 1931

Varieties were grown in field plots consisting of one drill strip approximately 400 feet long. Planted October 22, 1930 with a deep furrow drill, four repetitions of each variety. Planting rate 30 pounds per acre. Stands were good and quite uniform. Yields were obtained by harvesting five 16 foot samples from each plot.

Variety	C.I. No.	Series I	Series II	Series III	Series IV	Average
Tennarq	6936	15.26	18.14	15.60	16.54	16.39 16.4
Prelude x Kanred	8886	15.48	14.98	16.39	14.62	15.37 15.4
Kawvale	8180	14.88	14.54	16.13	14.11	14.92 14.9
Blackhull	6251	10.77	17.18	15.31	15.17	14.61 14.6
Kanred	8146	12.29	12.74	13.82	15.09	13.49 13.5
Kharhof	1442	13.03	15.82	12.57	12.50	13.48 13.5
Denton	9265	14.71	12.69	12.33	11.49	12.81 12.8
Falcoaster	6471	12.15	11.98	14.42	12.22	12.69 12.7
Nebraska 60	6250	8.47	13.65	11.30	11.06	11.12 11.1
Harvest Queen	6199	10.17	12.42	11.40	9.72	10.93 10.9
Nebraska 28	5147	8.62	11.76	10.90	9.79	10.27 10.3

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Lawton.

DATE OF SEEDING

Oct. 27, 1930

Size of plots. 02 acre

DATE OF EMERGENCE

Nov. 5

Nov. 7

--Check Plots

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Lawton Sta. seed. Turkey	Probably 1558					Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Check No. 1		5-15	6-7	212	23			46				28.1	1688	3063	62		
Check No. 2		5-15	6-11	216	27	Good	No injury	47	Present but no injury.	None.	None	29.4	1763	2238	62		X
Check No. 3		5-18	6-13	218	26			44				29.2	1750	3250	62		
Check No. 4		5-18	6-11	216	24			46				30.4	1825	2925	62		
Average.		5/16	6/10	215	25			46			28.8	29.3	1757	3119	62		
Nebraska-28	5147	5-15	6-8	215	24	Good	100% killed by freeze 3-27.	31	Present but no injury.	None	Med.	15.2	913	1838	61		
		5-15	6-8	215	24			33				18.8	1125	2125	62		
		5-15	6-9	216	25			33				18.3	1100	1650	60		
Average.		5/15	6/8	215	24			32				17.4	1046	1871	61		
Early Blackhull	8856	5-15	6-7	214	23	Good	50% injury by freeze 3-27.	37	Present but no injury.	None	Med.	20.8	1250	2500	64		X
		5-14	6-8	215	25			39				20.0	1200	1550	63½		
		5-14	6-9	216	26			37				22.7	1363	1638	62½		
Average.		5/14	6/8	215	25			38				21.2	1271	1896	63		
(Yields of Nebr. 28 and Early Blackhull produced from second growth. These two varieties were jointed when injured by the freeze March 27. Min. temp. on this date 19 degrees.																	

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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

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Lawton, Okla.

DATE OF SEEDING Oct. 27, 1930

DATE OF EMERGENCE Nov. 5

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Prelude X Kanred	8886	5-7	6-4	211	28	Good	N	41	some	None	35	Bushels 26.7	Pounds 1600	Pounds 3400	62	X	
		5-7	6-6	213	30	"	O	43	"	"	20	29.8	1788	2213	63		
		5-7	6-7	214	31	"	n	44	"	"	15	29.4	1763	2238	61		
Average.		5/7	6/6	213	30		u	43			23	28.6	1717	2617	62		
Kawvale	8180	5-12	6-7	214	26	Good	y.	43	Some	None	None	31.1	1863	2638	61	X	
		5-15	6-7	214	23	"	"	45	"	"	"	32.7	1963	3038	61		
		5-15	6-7	214	23	"	"	47	"	"	"	33.8	2025	2475	60½		
Average		5/14	6/7	214	24			45			Tw	32.5	1950	2717	61		
Eagle Chief	----	5-15	6-7	214	23	Good	"	44	Heavy	None	None	29.4	1763	2738	61	X	
		5-15	6-8	215	24	"	"	46	"	"	"	27.5	1650	2600	61		
		5-15	6-8	215	24	"	"	47	"	"	"	28.1	1688	2563	60½		
Average		5/15	6/8	215	24			45			0	28.3	1700	2634	61		
Tenmarq	6936	5-12	6-8	215	27	Good	"	42	Some	None	Light	29.4	1763	2488	61	X	
		5-12	6-8	215	27	"	"	44	"	"	"	28.3	1700	2800	61		
		5-12	6-8	215	27	"	"	46	"	"	"	28.3	1700	2300	60		
Average		5/12	6/8	215	27			44			Tw	28.7	1721	2529	61		
Leaf rust present as indicated, but no injury.																	

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AGRONOMIC AND QUALITY DATA

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Lawton

DATE OF SEEDING October 27, 1930

Size of plots .02 acre.

DATE OF EMERGENCE November ~~22~~ 5

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Kharkof	1442	5-18	6-10	217	23	Per ct. Good	Per ct. No	44	Per ct. Some	Per ct. None	Per ct. None	Bushels 31.0	Pounds 1863	Pounds 2888	Pounds 62	X	
		5-16	6-10	217	25	"	I	45	"	"	"	31.3	1875	3375	62		
		5-16	6-10	217	25	"	N	45	"	"	"	30.0	1800	2700	60		
		5-16	6-10	217	25	"	J	45	"	"	"	30.0	1800	2700	60		
Average		5/17	6/10	217	24		R	45				30.8	1846	2988	61		
Kanred	5146	5-15	6-8	215	24	"	"	45	Heavy	None	None	29.0	1738	2763	62	X	
		5-15	6-8	215	24	"	"	46	"	"	"	28.3	1700	2550	61		
		5-15	6-10	217	26	"	"	45	"	"	"	28.8	1725	2525	60½		
		5-15	6-10	217	26	"	"	45	"	"	"	28.8	1725	2525	60½		
Average		5/15	6/9	216	25			45				28.7	1721	2613	61		
Blackhull	6251	5-12	6-8	215	27	Good	"	42	Some	None	None	27.1	1625	2625	63	X	
		5-12	6-9	216	28	"	"	44	"	"	"	25.4	1525	2475	63		
		5-12	6-10	217	29	"	"	44	"	"	"	25.2	1513	2238	62		
		5-12	6-10	217	29	"	"	44	"	"	"	25.2	1513	2238	62		
Average		5/12	6/9	216	28			43				25.9	1554	2446	63		
Superhard Blackhull	8054	5-12	6-8	215	27	Good	"	42	Some	None	None	25.6	1538	2713	63	X	
		5-12	6-8	215	27	"	"	42	Some	None	None	25.6	1538	2713	63		
		5-12	6-9	216	28	"	"	45	"	"	"	26.5	1588	2913	63		
		5-12	6-10	217	29	"	"	45	"	"	"	26.7	1600	2150	61½		
Average		5/12	6/9	216	28			44				26.3	1575	2592	63		
Leaf rust present as indicated, but no injury.																	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Lawton, Okla.

DATE OF SEEDING October 27, 1930 Size of plots .02 acre. DATE OF EMERGENCE November 7 - Purkoff
November 21 - Others

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Turkey-102(Goodwell)	---	5-15	6-9	216	25	Good	No	43	Some	None	None	Bushels 27.3	Pounds 1638	Pounds 2613	Pounds 62	X	
		5-15	6-9	216	25	"	I	45	"	"	"	27.9	1675	2575	62		
		5-15	6-10	217	26	"	N	46	"	"	"	26.7	1600	3150	60		
	Average		5/15	6/9	216	25		U	45				27.3	1638	2779	61	
Cheyenne	8885	5-14	6-10	217	27	Good	Y.	41	Heavy	None	None	27.3	1638	3113	62	X	
		5-15	6-10	217	26	"	"	41	"	"	Light	27.3	1638	2363	62		
		5-15	6-13	220	29	"	"	41	"	"	None	27.9	1675	2825	59½		
	Average		5/15	6/11	218 xax	27			41				27.5	1650	2767	61	
Nebraska-60	6250	5-16	6-11	218	26	Good	"	43	Heavy	None	None	24.8	1488	2763	62	X	
		5-16	6-11	218	26	"	"	43	"	"	"	25.0	1500	2500	60½		
		5-16	6-13	220	28	"	"	44	"	"	"	25.4	1525	2725	59		
	Average		5/16	6/12	219	27			43				25.1	1504	2663	61	
Purkoff	8381	5-18	6-12	217	25	Good	"	48	Some	None	Very light	28.1	1688	3063	61	X	
		5-18	6-12	217	25	"	"	48	"	"	None	27.5	1650	2850	60½		
		5-18	6-13	218	26	"	"	47	"	"	"	26.3	1575	3175	58		
	Average		5/18	6/12	217	25			48				27.3	1638	3029	60	
Nebr.60 showed 1 to 2 % loose smut injury May 15 Purkof showed only a trace of smut on this date.																	

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AGRONOMIC AND QUALITY DATA

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Lawton

Nov. 5 - Last plot of Fultz

November 7 Others.

DATE OF SEEDING October 27, 1930

DATE OF EMERGENCE

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Iowaterk Ioturk	---	5-18	6-12	217	25	Per ct.	Per ct.	45	---	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.
		5-18	6-12	217	25			46				None	27.7	1663	3338	62	
		5-18	6-11	216	24			45				"	27.9	1675	3575	61½	
		5-18	6-11	216	24			45				"	26.7	1600	3150	59½	
Average (Classification No. 3326)	---	5/18	6/12	217	25			45	---				27.4	1646	3354	61	
		5-14	6-8	213	25			43				None	20.0	1200	1800	61	
		5-15	6-8	213	24			43				"	19.8	1188	1813	59½	
		5-15	6-8	213	24			43				"	17.1	1025	1975	59½	
Average (Classification No. 3416)	---	5/14	6/8	213	24			43	---				19.0	1138	1863	60	
		5-18	6-8	213	21			44				None	20.4	1225	2025	59	
		5-17	6-8	213	22			44				"	20.8	1250	2250	59	
		5-17	6-8	213	22			44				"	20.0	1200	2050	59	
Average	---	5-17	6-11	218	25			44	---				16.5	988	1763	57½	
		5/17	6/8	214	23			44				20.4	19.4	1166	2022	58½	
		8265	5-17	6-9	214	23				45			Med.	24.2	1450	2550	61
		5-16	6-9	214	24			46				"	23.8	1425	3075	60½	
Denton	---	5-16	6-10	215	25			47	---				23.3	1400	2600	58½	
		5/16	6/9	214	24			46					23.8	1425	2742	60	
		(Loose smut 7 to 10 per cent on Denton.															

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Lawton

October 27, 1930

November 5 - Redhull

November ~~xxxx~~ 7 Others

DATE OF SEEDING

DATE OF EMERGENCE

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Sibley-81	10084	5-14	6-10	215	27			44	Heavy		None	28.3	1700	2550	62		
		5-14	6-9	214	26			45	"		"	27.5	1650	2600	62		
		5-14	6-11	216	28			45	"		"	26.7	1600	2650	60		
	Average	5/14	6/10	215	27			45				27.5	1650	2600	61		
Redhull	----	5-14	6-10	217	27			43	Heavy		None	25.2	1513	2488	62		
		5-15	6-10	217	26			44	"		"	26.3	1575	2425	62		
		5-15	6-10	217	26			45	"		"	25.9	1554	2491	62		
	Average	5/15	6/10	217	26			44				25.8	1547	2468	62		
Fulcaster	6471	5-14	6-8	213	25			47	Heavy		None	26.7	1600	2650	62		
		5-14	6-8	213	25			45	"		Light	24.4	1463	2538	61		
		5-14	6-11	216	28			47	"		None	26.7	1600	2650	60		
	Average	5/14	6/9	214	26			46				25.9	1554	2613	61		
Harvest Queen	6199	5-14	6-8	213	25			50	Heavy		Light	23.1	1388	2363	61		
		5-14	6-9	214	26			50	"		"	23.5	1413	2338	60½		
		5-15	6-11	216	27			50	"		"	23.3	1400	2600	58½		
	Average	5/14	6/9	214	26			50				23.3	1400	2434	60		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING October 27, 1930

Lawton

DATE OF EMERGENCE November 5 7

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
Classification No. Mediterranean.	5303	5-14	6-10	215	27	Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
		5-14	6-10	215	27			46	Some		Light	25.2	1513	2238	62		
		5-14	6-10	215	27			48	"		"	25.4	1525	2475	61		
		5-14	6-11	216	28			47	"		"	23.3	1400	2600	57½		
Average		5/14	6/10	215	27			47				24.6	1479	2438	60		

. YIELD IN BUSHELS PER ACRE OF WINTER WHEAT
VARIETIES AT WOODWARD, OKLAHOMA, 1931.*

Variety	C.I. No.	State No.	Yield				
			Series 1	Series 2	Series 3	Series 4	Avg.
Tenmarq	6936	Ks. 2644	51.6	42.7	43.0	45.2	48.8
Kanred	5146		48.3 47.5	46.5	49.3	47.7	44.8
Superhard	8054		49.5	48.3	44.4	46.0	47.1
Cheyenne	8885		45.6	48.1	46.1	48.2	47.0
Blackhull	6251		47.3	46.7	45.8	47.6	46.9
Prelude x Kanred	8886		48.9	46.0	45.2	46.2	46.6
Kawvale	8180		49.3	48.7	44.8	43.1	46.5
Redhull			47.9	43.4	44.4	47.1	45.7
Kharkof, Hays No. 2	6686		44.2	45.3	46.4	46.6	45.6
Kharkof	1442		44.8	45.3	46.9	44.6	45.4
Turkey, Goodwell 102P		Okla. 81	47.1	42.8	45.7	45.8	45.4
Kanred x Marquis			47.8	44.5	45.8	43.6	45.4
Eagle Chief			47.0	44.3	46.9	42.8	45.3
Local Turkey			47.8	42.3	44.6	44.2	44.7
Sibley			42.4	45.2	46.0	39.7	43.3
Nebraska No. 60	6250		39.0	40.5	47.1	42.2	42.2
Fulcaster	6471		42.4	41.8	42.0	39.5	41.4
Oro	8220		37.7	37.6	44.5	41.2	40.3
Cooperatorka	8861		34.4	33.0	40.0	38.2	36.4
Early Blackhull	8856		36.3	36.9	34.6	36.1	36.0
Nebraska No. 28	5147		33.0	33.8	32.8	33.5	33.3
Denton	8265		33.5	30.6	35.1	33.9	33.3
Harvest Queen	6199		33.0	27.9	33.9	33.5	32.1

*The plots were one-forty-seventh-acre in size, quadruplicated, and were grown on fallow ground.

Stillwater Wheat Variety Test - 1931

Variety	Acre Yield																Average Yld.	
	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.	Grain Bu.	Straw Lbs.
1. Turkey Check	34.39	6790	40.37	5294	35.94	6216	30.91	3606	40.56	5939	40.18	4659	44.30	6846	38.10	5622		
2. Early Blackhull	23.76	3835	24.95	3705	25.44	4258	20.67	2720	21.87	5702	27.51	3441	31.06	6283	22.18	4277		
3. Nebr. 28	16.59	4389	20.29	3637	22.68	4522	16.69	3298	18.31	5237	15.05	2944	21.65	5829	18.75	5265		
4. Turkey Check	42.14	6088	38.93	5226	45.48	6322	37.88	4809	49.07	6560	35.34	3536	50.78	7023	42.80	5652		
5. Prelude X Kanred	24.27	5484	30.97	4365	25.08	4379	32.72	4486	43.07	8164	26.89	4383	36.62	6175	31.31	5348		
6. Kawvale	21.35	5244	26.74	4121	33.02	6052	29.19	4019	34.41	5968	25.21	3693	34.51	5963	29.20	5009		
7. Turkey Check	42.53	5906	34.99	3999	48.63	6122	37.7	4411	50.93	6222	30.02	3918	44.94	5563	41.39	5163		
8. Eagle Chief	45.23	6438	35.55	3963	45.56	6205	34.62	5051	34.85	6620	25.10	3925	37.96	5755	36.98	6451		
9. Tenmarq	25.64	5833	29.83	4433	38.30	3473	34.38	4487	37.66	5661	25.70	4116	38.51	5610	32.86	4802		
10. Turkey Check	46.86	6154	40.49	4473	47.26	5651	35.22	4404	49.78	5951	29.91	3837	45.29	5542	42.12	5145		
11. Superhard Blackhull	35.83	5781	26.25	3403	38.37	5504	26.76	4391	35.85	5656	26.0	3871	36.53	5728	32.23	4905		
12. Blackhull	41.28	5820	32.02	3735	44.14	5724	35.15	4566	40.56	5826	29.08	3799	42.64	6833	37.84	5186		
13. Turkey Check	49.19	5956	40.05	4385	45.80	6077	31.17	3556	44.62		28.50	3693	46.75	5568	40.87	4873		
14. Redhull	39.47	5441	37.54	4762	42.15	5052	37.53	4933	40.58	5485	27.70	3542	38.79	5021	37.68	4982		
15. Kanred	28.61	6092	30.89	5162	30.34	6213	27.36	5486	27.30	5829	22.67	4071	27.23	4702	27.77	5365		
16. Turkey Check	44.03	5289	34.72	4479	37.17	4682	30.20	4685	35.70	4671	24.64	3782	41.00	5172	35.35	4680		
17. Turkey 102 Goodwell	37.34	5323	36.17	4618	41.69	5192	35.79	5433	42.18	5502	29.15	3907	34.81	6170	36.63	5164		
18. Kharkof	42.98	5257	43.60	5306	42.45	5260	39.52	3625	38.98	5242	39.54	3624	40.13	6078	41.03	4913		
19. Turkey Check	46.72	5157	44.30	5060	40.66	4462	35.14	5010	34.74	3850	29.16	3618	36.63	4727	38.19	4555		
20. Sibley 81	44.04	5696	39.30	5749	38.11	4841	37.49	5105	36.34	5174	26.64	4511	39.83	5191	37.39	5181		
21. Sibley 62	44.87	5273	42.70	5316	38.07	4504	42.16	4824	40.90	1561	25.85	2986	38.77	4802	39.05	4609		
22. Turkey Check	48.75	5165	42.73	5017	37.02	4453	35.23	4296	43.71	4463	33.89	3437	36.66	4539	36.9	4201		
23. Cheyenne	49.96	5023	41.24	4880	40.03	5065	38.00	4622	33.72	3747	33.16	3690	43.07	4883	39.88	4559		
24. Fulcaster	36.92	4661	37.34	4888	34.24	4847	32.87	4816	30.28	4745	28.61	5448	38.62	6169	34.13	5082		
25. Turkey Check	40.28	4055	41.52	4863	34.14	5146	35.14	4493	35.32	4236	33.67	6070	49.25	5530	38.47	4913		
26. Harvest Queen	33.83	6682	33.57	6359	34.30	5862	28.13	4422	32.64	5848	27.29	6223	35.70	5778	32.21	5856		
27. Denton	37.42	5596	38.34	5857	34.43	5741	26.68	3604	34.04	5312	35.06	6496	35.70	5326	34.52	5419		
28. Turkey Check	35.45	4526	42.32	4929	39.37	4487	31.66	5115	33.77	4298	44.72	6337	46.61	5123	37.19	4698		
29. Nebr. 60	39.87	5200	41.72	5284	34.56	5054	43.01	6810	37.22	4895	46.43	6266	40.88	5128	40.53	5520		
30. Mediterranean	30.99	4115	30.74	4605	31.79	4428	27.23	4974	29.72	5344	40.47	6171	38.49	5269	32.78	4987		
31. Turkey Check	40.66	4530	40.28	5211	37.90	4514	36.02	5645	39.69	5438	49.08	6333	46.30	5329	41.42	5286		
32. Purkof	35.26	4978	33.49	5458	33.64	4657	34.90	6278	34.55	5508	43.14	7142	39.17	4778	36.31	5543		
33. Malakof	38.60	4653	37.86	5082	41.24	5785	42.37	5265	37.41	5110	48.71	6468	44.39	4465	41.51	5261		

Variety	----- Acre Yield -----																Average Yld.	
	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw
	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.
34. Turkey Check	45.51	4737	^{38.71} 37.19	⁴⁵⁷⁸ 4105	38.11	4502	38.60	5265	34.19	4666	50.05	6162	41.71	4399	40.51	4802		
35. Currell	38.06	4312	27.29	4020	34.13	4401	31.15	4806	34.66	4483	43.01	6244	38.36	4374	35.24	4663	35.3	
36. Ioturk	39.29	4488	37.32	5455	37.98	5076	37.41	4996	32.64	4491	45.01	7029	40.39	5044	38.58	5226		
37. Turkey Check	40.18	4559	40.41	5608	39.41	4730	43.18	5216	34.72	4470	49.29	6773			35.31	5226	41.2	
38. Velvet Chaff	38.06	4810	41.94	5856	36.79	4581	37.98	6094	35.36	4667	42.58	6723	41.58	4973	39.18	5386		
39. Fultz	33.73	4448	36.96	5589	29.78	3305	39.02	6032	30.25	3955	36.98	6154	37.49	4539	34.85	4860		
40. Turkey Check													34.70	4367	34.70	4367		
<i>Turkey (Avg)</i>	<i>42.8</i>		<i>39.9</i>		<i>40.5</i>		<i>34.9</i>		<i>40.5</i>		<i>36.2</i>		<i>43.5</i>		<i>39.8</i>			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Stillwater Okla

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Serial Nos. 1-25 planted Oct. 2, 1930

" " 26-39 " " 3, 1930

DATE OF SEEDING

DATE OF EMERGENCE October 9, 1930

Serial No.	VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG- ING	CORE YIELD			GRAIN QUALITY		
			Headed	Ripe	Emer- gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
							Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
1.	Turkey, Check ✓	1558	5/7	6/10	244	34		100	39			0	38.10	2286	5622			
2.	Early Blackhull	8856	4/23	6/3	237	41		100	37			0	22.18	1331	4277			
3.	Nebraska 28	5147	4/23	6/5	239	43		100	34			0	18.75	1125	5265			
4.	Turkey, Check ✓	—	5/7	6/10	244	34		100	39			0	42.80	2568	5652			
5.	Prelude x Kanred	8886	4/27	6/8	242	42		100	39			0	31.31	1879	5348			
6.	Kawvale	8180	5/3	6/8	242	36		100	42			0	29.20	1752	5009			
7.	Turkey, Check ✓	—	5/7	6/10	244	34		100	41			0	41.39	2483	5163			
8.	Eagle Chief	8888	5/7	6/10	244	34		100	41			0	36.98	2219	6451			
9.	Tenmarq	6936	5/1	6/7	241	37		100	39			0	22.86	1372	4802			
10.	Turkey, Check ✓	—	5/7	6/10	244	34		100	37			0	42.12	2527	5145			
11.	Superhard Blackhull	8054	5/5	6/9	243	35		100	38			0	32.23	1934	4905			
12.	Blackhull	6251	5/5	6/9	243	35		100	37			0	37.84	2270	5186			
13.	Turkey, Check ✓	—	5/6	6/10	244	35		100	38			0	40.87	2452	4873			
14.	Redhull	—	5/8					100				0	37.68	2261	4892			
15.	Kanred	5146	5/7	6/10	244	34		100	38			0	27.77	1666	5365			
16.	Turkey, Check ✓	—	5/6	6/10	244	35		100	39			0	35.35	2121	4680			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Stillwater

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Serial Nos. 1-25 planted Oct. 2, 1930

No. 19 - 25 -- Oct. 9, 1930

DATE OF SEEDING " 26-39 " Oct. 3, 1930

DATE OF EMERGENCE " 26-29 -- Oct. 10, 1930

VARIETY Serial No.	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
17. Turkey Goodwell 102	—	5/5	6/10	244	36		100	39			0	36.73	2204	5164			
18. Kharkof	1442		6/11	245			100	36			0	41.03	2462	4913			
19. Turkey, Check ✓	—	5/5					100	39			0	38.19	2291	4555			
20. Sibley No. 81	10,084	5/6	6/10	244	35		100	39			0	37.39	2243	5181			
21. Sibley No. 62	—	5/6					100				0	39.05	2343	4609			
22. Turkey, Check ✓	—	5/6					100	39			0	39.71	2383	4481			
23. Cheyenne	8885	5/5	6/12	246	38		100	36			0	39.88	2393	4559			
24. Fulcaster	6471 4862	5/5	6/8	242	34		100	42			0	34.13	2048	5082			
25. Turkey, Check ✓	—	5/6					100	39			0	38.47	2308	4913			
26. Harvest Queen	6199 5314	5/5	6/10	243	36		100	44			0	32.21	1933	5856			
27. Denton	8265						100				0	34.52	2071	5419			
28. Turkey, Check ✓	—	5/7					100	39			0	39.13	2348	4974			
29. Nebraska 60	6250	5/7	6/12	245	36		100	39			0	40.53	2432	5520			
30. Mediterranean	5303	5/5	6/10	243	36		100	42			0	32.78	1967	4987			
31. Turkey, Check ✓	—	5/6					100	39			0	41.42	2485	5286			
32. Purkof	8381						100				0	36.31	2179	5543			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Stillwater

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Serial Nos. 1-25 Planted Oct. 2, 1930

" " 26-39 " " 3, 1930

DATE OF SEEDING

DATE OF EMERGENCE October 10, 1930

VARIETY Serial No.	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
33. Malakof	5663	5/6	6/10	243	35		100	39			0	41.51	2491	5261			
34. Turkey, Check ✓	—	5/5					100	39			0	40.77	2446	4834			
35. Currell	3326	5/3					100				0	35.24	2114	4663			
36. Ioturk	11388		6/12	245			100	40			0	38.58	2315	5226			
37. Turkey, Check ✓	1558	5/5					100	39			0	35.31	2119	5226			
38. Velvet Chaff	5948	5/5					100				0	39.18	2351	5386			
39. Fultz	3416	5/5	6/7	240	33		100				0	34.85	2091	4860			
		5-6	6-10					39									

Carrier Wheat Variety Test - 1931

Variety	1		✓		3		✓		5		6		7		ave?	
	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.
Turkey	2620	24.0	4315	43.6	4017	34.6	4015	32.5	3489	15.9	2090	24.4	2666	21.1	3316	28.0
Early Blackhull	2405	21.2	812	22.3	3032	26.6	2967	28.8	2414	23.2	1361	17.5	3110	26.4	2300	23.71
Nebr. 28	2277	17.0	3412	32.0	2738	23.3	3151	25.7	2194	18.4	1185	14.1	2503	25.9	2494	22.34
Turkey	3824	27.2	2855	26.4	3894	36.6	4376	37.0	3117	30.5	2065	22.7	3834	33.4	3424	30.54
Prelude X Kanred	3743	30.7	2529	25.5	3581	35.6	855	32.3	2720	24.4	2254	21.6	2232	30.5	2559	28.66
Kawvale	3949	35.7	2987	28.5	3889	36.7	3801	38.1	2792	25.1	2256	23.7	3621	34.8	3328	31.79
Turkey	3759	30.7	2752	28.1	4013	38.8	4387	39.0	2990	28.4	4036	38.5	3847	35.3	3683	33.55
			3294	29.7												
Eaglechief	3984	34.3	2960	22.6	5294	45.1	4245	35.0	2592	20.2	3467	31.0	3903	32.2	3778	31.49
Tenmarq	4262	38.9	3833	34.7	4137	42.2	3498	35.0	3441	33.6	3365	32.7	3741	32.8	3754	35.70
Turkey	3370	34.8	3093	26.7	3759	36.2	3263	32.3	3909	34.2	2526	21.3	3593	33.2	3359	31.23
Superhard Blackhull	3559	33.7	3750	32.6	4108	37.0	3611	30.7	3750	32.6	3606	26.6	3419	25.5	3686	31.26
Blackhull	3995	37.0	3566	31.5	3263	33.2	3201	29.1	3200	27.0	3280	32.0	4811	36.1	3617	32.28
Turkey	3045	26.9	2806	25.1	3828	26.1	2935	26.6	3540	34.0	2964	26.9	4789	32.2	3310	29.71
Redhull	3806	35.9	4340	33.4	2877	39.8	3713	32.7	3554	33.8	2991	31.5	4765	36.9	3922	34.08
			4284	34.3												
Kanred	3527	32.1	1950	35.2	4430	38.2	3217	28.8	3521	30.1	3602	29.8	4151	34.4	3485	32.67
Turkey	2468	24.4	3447	35.6	3622	34.8	3505	30.4	3244	32.6		24.5	5488	41.7	3629	28.01
Goodwell Turkey	3826	33.5	3700	33.5	4045	32.2	3885	38.9	3327	31.3	1940	16.6	3849	33.1	3510	31.26
Kharkof	3757	38.9	4912	39.1	3982	28.8	3795	36.1	3532	29.9	4708	39.9	5035	36.6	4246	35.63
Turkey	3793	34.0	4291	36.3	4744	41.5	3957	39.8	2902	29.9	3551	25.4	4361	28.8	3899	32.82
							3590	26.9								
Sibley 81	3798	34.0	2919	25.4	4234	35.2	3916	32.0	3349	30.9	3075	39.7	3555	27.4	3549	32.2
Cheyenne	3493	34.8	3634	40.9	4621	41.4	4414	30.0	2457	24.6	3167	31.8	4246	37.1	3719	34.38
Turkey	2964	28.8	3904	34.3	3634	32.5	3568	27.2	1879	15.2	2314	29.9	3735	26.6	3143	27.79
Fulcaster	3816	16.7	5903	26.4	2729	26.4	3839	16.4	3028	19.9	3205	24.8	3522	19.5	3720	21.45
Harvest Q	2268	48.9	5589	10.5	3134	16.0	3606	18.1		60.4	1789	29.4	3762	28.2	3358	30.21
Turkey	3748	34.8	3663	32.0	3696	33.6	3300	27.5	2305	25.0	2602	26.4	3422	27.6	3311	29.66
									3753	30.5						
Denton	3351	28.7	3961	35.5	3063	29.3	3640	28.1	4003	30.6		25.6	3360	30.7	3563	29.78
Nebr. 60	2610	30.5	3980	37.3	2412	27.7	2405	27.6	3224	30.9	2114	30.3	3177	31.6	2846	30.84

Variety	Acre Yield														Average Yld.	
	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain	Straw	Grain
	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.	Lbs.	Bu.
Turkey	3445	33.5	5179	44.8	3546	31.8	3030	29.9	3209	31.1	2602	24.3	3490	28.5	3500	31.98
Mediterranean	2733	32.7	4034	36.4	3269	30.1	1567	35.2	3903	36.5	1648	29.6	1994	23.9	2735	32.04
Purkof	2620	28.2	4944	40.3	----	----	2180	27.1	2943	27.1	1748	18.5	4083	41.9	3086	30.50
Turkey	2751	28.2	4669	38.5	4453	27.3	3202	31.2	3157	25.6	807	28.8	3348	28.8	3198	28.89
											1302	22.7				
Currell	2374	28.3	4580	44.2	2945	29.2	2219	26.5	2324	24.7	2682	30.0	2960	31.0	2869	30.54
Ioturk	3535	40.5	3982	37.0	3664	38.3	2341	32.9	2356	26.3	3412	23.5	3503	38.9	3256	33.90
Turkey	2338	22.4	4419	34.2	4401	38.7	3115	30.6	2567	27.0	846	38.8	3650	30.1	3048	31.65
Velvet Chaff	5402	36.8	4363	35.1	4306	37.2	3530	32.1	2135	27.8	3041	23.3	4182	31.8	3851	32.03
Fultz	3535	29.9	3636	27.8	3938	25.3	3599	30.9	2126	19.5	3415	23.4	3517	27.7	3395	26.23
Turkey Check													3815	31.6	3815	31.6

Turkey (Avg)

29.1

33.9

35.0

31.5

27.7

27.4

30.7

30.8

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Gordwell, Okla

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

9/29

DATE OF EMERGENCE

10-5

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Show rust		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Early Blackhall 2202	8856	5/24	6/21			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	X
		2302	5/17	6/19			100	100	27	56.0		10	29.1	1748	2221	61.6	
		2351	5/18	6/21			100	100	32	47.6		18	23.3	1396	2768	61.4	
		5/20	6/20						28	40.8		16	21.8		60.8		
Nebo Hyb. no. 28 2203	5147	5/19	6/15			100	100	25	35.9		4	16.3	976	1464	58.4		X
		2303	5/14	6/20			100	100	28	58.2		8	29.5	1772	3189	59.7	
		2350	5/16	6/20			100	100	36	53.3		5	24.5	1467	3217	59.7	
		5/16	6/18						30	49.1		6	23.4	1568	59.3		
Cheyenne 2205	8885	5/26	6/23			100	100	28	40.2		1	25.4	1525	2721	58.5		X
		2305	5/25	6/24			100	100	29	70.7		2	47.3	2835	4583	60.0	
		2348	5/24	6/20			100	100	33	69.6		0	43.4	2602	4542	60.1	
		5/25	6/23						30	60.2		1	38.7	2321	59.5		
Fulcaster 2206	6471	5/27	6/23			100	100	31	36.6		1	22.6	1354	2647	58.1		Z
		2306	5/25	6/21			100	100	34	59.2		2	27.2	1630	3945	59.1	
		2347	5/24	6/21			100	100	36	56.6		4	27.0	1620	3773	59.3	
		5/25	6/22						34	50.8		2	25.6		58.8		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Shaw-REST per 100		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Prelude x Kamed	2208	8886	5/20	6/22			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.
	2308		5/18	6/19			98	100	29	30.1		3	19.5	1171	2001	59.9	X
	2357		5/19	6/20			100	100	33	50.8		1	35.2	2114	3319	60.7	
			5/19	6/20			98	100	34	38.6		2	28.8	1727	2910	60.0	
			5/19	6/20					32	34.8		2	27.8			60.2	
Kawale	2209	8180	5/26	6/21			100	100	28	36.2		T	23.2	1391	2367	57.9	✓
	2309		5/23	6/20			100	100	33	46.8		3	32.7	1961	3851	58.2	
	2356		5/23	6/20			100	100	35	48.9		2	28.4	1703	3454	58.4	
			5/24	6/20					32	44.0		2	28.1			58.2	
Harvest Queen	2211	6199	5/30	6/23			100	100	35	38.9		1	23.2	1391	3245	57.5	✓
	2311		5/25	6/21			100	100	36	50.0		11	33.1	1985	4253	59.3	
	2354		5/26	6/21			100	100	37	36.1		1	26.6	1597	3560	58.7	
			5/27	6/22					36	41.7		4	27.6			58.5	
Denton	2212		5/30	6/23			100	100	33	45.3		2	25.8	1549	3184	57.9	X
	2312		5/24	6/21			100	100	34	59.3		4	32.3	1937	4867	59.5	
	2353		5/26	6/22			100	100	35	53.6		1	28.2	1691	4033	59.3	
			5/27	6/22					34	52.7		2	26.8			58.9	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

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VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Stem Rust <i>per sp.</i>		LODGING	ACRE YIELD			GRAIN QUALITY			
		Headed	Ripe	Emergence	Heading				Lat.	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade		
Eagle Chief	2214	—	5/26	6/21			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	X
	2314		5/24	6/21			100	100	32	67.1		2	41.7	2504	4300	59.9		
	2363		5/24	6/25			98	100	32	62.2		2	35.5	2127	4146	59.8		
			5/25	6/22					32	57.2		2	35.8			59.4		
Jennary	2215	6936	5/23	6/22			98	100	30	41.9		3	26.8	1610	2586	57.7		X
	2315		5/18	6/21			100	100	32	52.1		2	39.4	2363	3875	60.0		
	2362		5/19	6/21			100	100	30	42.6		1	34.9	2091	3659	59.7		
			5/20	6/21					31	45.5		2	33.7			59.1		
Nebraska no. 60	2217	6250	5/30	6/24			98	100	33	45.6		T	34.2	2050	3562	58.7		X
	2317		5/28	6/24			100	100	34	73.4		T	47.7	2859	5032	60.8		
	2360		5/26	6/24			100	100	35	70.1		T	41.4	2484	2720	60.5		
			5/28	6/24					34	63.0		0	41.1			60.0		
Mediterranean	2218		5/26	6/21			100	100	34	43.5		3	25.8	1549	2501	57.8		X
	2318		5/26	6/23			100	100	34	43.0		1	27.6	1654	3544	59.3		
	2359		5/26	6/22			100	100	34	39.4		2	24.5	1467	3170	58.8		
			5/26	6/22					34	42.0		2	26.0			58.6		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

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DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Chlorosis RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Superbush 2220	8054	5/23	6/20			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	X
		2320	5/22	6/22		100	100	34	63.4		5	42.1	2528	4229	62.0		
		2369	5/20	6/21		98	100	37	64.7		3	34.2	2050	3758	61.4		
			5/22	6/21				34	52.7		4	36.3			61.5		
Blackhull 2221	6251	5/21	6/20			100	100	32	56.2		3	34.0	2037	3526	61.5	X	
		2321	5/19	6/22		100	100	34	76.1		3	45.7	2741	4772	62.1		
		2368	5/19	6/20		100	100	35	76.9		1	38.0	2281	4551	61.2		
			5/20	6/21				34	69.7		2	39.2			61.6		
Kharkov 2223	1442	5/26	6/20			100	100	33	55.5		2	37.4	2245	4099	59.2	X	
		2323	5/24	6/21		100	100	34	67.9		1	41.2	2469	5233	59.8		
		2366	5/25	6/21		100	100	38	66.9		T	39.0	2342	4538	59.3		
			5/25	6/21				35	63.4		1	39.2			59.4		
Sibleys No. 81. 2224		5/26	6/20			98	100	32	52.4		7	28.1	1684	3392	58.8	X	
		2324	5/25	6/21		100	100	33	45.9		3	30.5	1831	3934	59.4		
		2365	5/25	6/25		98	100	36	62.5		2	29.1	1745	3526	59.2		
			5/25	6/22				34	53.6		4	29.2			59.1		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

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DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY				
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade			
Redbull	2226	5/25	6/21			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	X		
	2326	5/24	6/23			100	100	34	66.5		2	41.9	2516	4949	59.0				
	2375	5/24	6/21			100	100	35	74.8		4	36.4	2184	4990	60.3				
	5/24	6/22						35	65.7		3	36.3			59.9				
Kamed	2227	5146	5/25	6/20				98	100	34	65.8		2	36.2	2172	3782	59.0	X	
	2327		5/24	6/20				100	100	34	74.2		2	38.6	2315	4725	60.4		
	2374		5/24	6/21				100	100	34	76.4		1	38.4	2306	4331	59.2		
	5/24	6/20						34	72.1		2	37.7			59.5				
Punkof	2229		5/27	6/21				100	100	38	51.3		T	31.3	1879	4758	58.5	X	
	2329		5/27	6/23				100	100	40	58.7		1	37.0	2221	5339	58.9		
	2372		5/27	6/23				100	100	38	57.4		2	32.3	1940	5087	58.3		
	5/27	6/22						39	55.8		1	33.5			58.6				
Jaturk	2230		5/27	6/20				100	100	36	54.6		0	33.6	2013	4282	59.7	X	
	2330		5/26	6/23				98	100	36	59.7		0	43.9	2634	5304	60.3		
	2371		5/29	6/24				100	100	37	73.1		1	35.6	2135	4892	60.0		
	5/27	6/22						36	62.5		0	37.7			60.0				

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

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DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Show RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
Ridit	2232	5/26	6/21			98	100	35	59.7		1	26.4	1586	3392	57.4		
	2332	5/26	6/23			100	100	36	64.7		1	30.7	1843	4158	58.5	✓	
		5/26	6/22					36	62.2		1	28.6			58.0		
Mintunke	2233	5/26	6/21			96	100	36	47.6		6	32.5	1952	4099	58.0		
	2333	5/25	6/23			96	100	36	63.1		2	37.6	2256	4312	58.9	X	
		5/26	6/22					36	55.4		4	35.1			58.5		
Fultz	2236	5/26	6/20			100	100	36	41.5		2	20.7	1244	3977	56.7		
	2336	5/23	6/20			100	100	37	41.8		2	23.2	1394	4040	57.7	✓	
	2377	5/27	6/22			100	100	35			1	18.7	1122	3855	56.4		
		5/25	6/21					36	41.7		2	20.9			56.9		
Turkey 101	2238	5/25	6/20			98	100	31	68.8		1	28.5	1708	4538	59.2		
	2338	5/23	6/19			98	100	33	63.6		T	43.9	2634	4028	59.7	✓	
		5/24	6/20					32	66.2		1	36.2			59.5		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

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DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Stems per sq foot		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaves	Stems		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Juby 102	2239	5/24	6/20			Per ct. 98	Per ct. 100	Inches 31	Per ct. 64.6	Per ct.	Per ct. 2	Bushels 30.5	Pounds 1830	Pounds 3538	Pounds 58.5		
	2339	5/23	6/20			98	100	32			3	35.1	2103	3945	59.2	X	
		5/24	6/20					32			3	32.8			58.9		
Malahof	2244	5/25	6/20			100	100	31	63.3		3	22.8	1369	4059	58.8		X
	2344	5/23	6/20			100	100	31			2	37.9	2271	3879	59.6		
		5/24	6/20					31			3	30.4			59.2		
Minhardt	2245	5/30	6/23			100	100	32	88.6		2	18.5	1112	4364	56.1	X	
	2345	5/27	6/22			100	100	34			0	28.4	1703	4353	58.1		
		5/29	6/23					33			1	23.5			57.1		
Kamed	2201	5/31	6/23			100	100	29	44.8		1	24.0	1440	2464	57.5	—	
	2301	5/25	6/21			95	100	30	70.9		3	38.4	2303	4123	59.3		
	2352	5/25	6/20			98	"	36	54.1		1	38.6	2318	4021	59.4		
		5/27	6/21					32	56.6		2	33.7			58.7		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Carrier 0151a.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING October 9, 1930

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
1. Turkey Check ✓	1558	5/8	6/20		43							28.00		3316			
2. Early Blackhull	8856	5/7	6/12		36							23.71		2300			
3. Nebr. 28	5147	5/5	6/9		35							22.34		2494			
4. Turkey Check ✓	—	5/8	6/19		42							30.54		3424			
5. Prelude X Kanred	8886	5/15	6/12		28							28.66		2559			
6. Kawvale	8180	5/16	6/13		28							31.79		3328			
7. Turkey Check ✓	—	5/18	6/20		33							33.55		3683			
8. Eagle Chief	8868	5/18	6/18		31							31.49		3778			
9. Tenmarq	6936	5/16	6/16		31							35.70		3754			
10. Turkey Check ✓	—	5/16	6/20		35							31.23		3359			
11. Superhard Blackhull	8054	5/16	6/18		33							31.26		3686			
12. Blackhull	6251	5/17	6/18		32							32.28		3617			
13. Turkey Check ✓	—	5/16	6/18		33							29.71		3310			
14. Redhull	—	5/17	6/19		33							34.08		3922			
15. Kanred	5146	5/18	6/19		32							32.67		3485			
16. Turkey Check ✓	—	5/16	6/19		34							28.01		3629			
17. Turkey 102 Goodwell	—	5/16	6/20		35							31.28		3510			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Carrier

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DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
18. Kharkof	1442	5/19	6/20		32							35.63		4246			
19. Turkey Check ✓		5/16	6/20		35							32.82		3899			
20. Sibley 81	10084	5/17	6/19		33							32.2		3549			
21. Cheyenne	8885	5/17	6/20		34							34.38		3719			
22. Turkey Check ✓	—	5/16	6/18		33							27.79		3143			
23. Fulcaster	6471	5/16	6/17		32							21.45		3720			
24. Harvest Queen	6199	5/16	6/17		32							30.21		3358			
25. Turkey Check ✓	—	5/16	6/16		31							29.66		3311			
26. Denton	8265	5/16	6/16		31							29.78		3563			
27. Nebr. 60	6250	5/18	6/19		32							30.84		2846			
28. Turkey Check ✓	—	5/16	6/17		32							31.98		3500			
29. Mediterranean	5303	5/15	6/18		34							32.04		2735			
30. Purkof	8381	5/16	6/20		35							30.50		3086			
31. Turkey Check ✓	—	5/16	6/18		33							28.89		3198			
32. Currell	3326	5/15	6/17		33							30.54		2869			
33. Ioturk	11388	5/16	6/19		34							33.90		3256			
34. Turkey Check ✓	—	5/16	6/18		33							31.65		3048			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Carrier

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DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
35. Velvet Chaff	5948	5/16	6/8		23							32.03		3851			
36. Fultz	3416	5/16	6/9		24							26.23		3395			
	✓	5/15	6-19									30.3					

Note: The exact date of emergence is not available, however conditions were favorable at sowing time and all varieties probably emerged the same date or about the 16 of October.

Comparative yields of varieties of winter wheat grown at Manhattan,
1931

Variety	C.I.No.	Kans.No.	Yield Bushels per acre			
			Ser. 1	Ser. 2	Ser. 3	Average
Hard Winter Wheat						
Kanred x Marquis	10090	2644	51.0	53.4	59.4	54.6 ± 1.68
Cooperatorka	8861	499	54.4	52.7	55.4	54.2 ± .38
Cheyenne	8885	2667	55.7	56.7	47.0	53.1 ± 1.89
Early Blackhull	8856	483	45.7	50.7	61.0	52.5 ± 3.04
Minturki	6155	2464	49.4	49.4	53.4	50.7 ± .39
Nebraska 60	6250	322	51.0	48.7	43.4	47.7 ± 1.52
Blackhull	6251	343	45.4	48.0	49.0	47.5 ± .71
Tenmarq	6936	514	50.0	49.7	42.4	47.4 ± 1.67
Oro	8220	495	46.4	47.7	47.4	47.2 ± .26
Hays 2 (Kharkof)	6686	2659	46.0	47.7	47.4	47.0 ± .35
Turkey	1558	570	48.7	47.4	42.0	46.0 ± 1.38
Prelude x Kanred	8986	2628	40.4	46.7	49.4	45.5 ± 1.80
Superhard	8054	470	46.7	47.0	42.7	45.5 ± .93
Kharkof	2193	382	47.4	44.4	43.0	44.9 ± .37
Kanred x Hd. Fed.		516	40.7	43.0		41.9
Fulhard	8257	2594	37.7	42.0	43.0	40.9 ± 1.10
Kanred (checks)	5146	2401	45.0, 45.4, 48.7, 46.7, 48.7, 47.7, 46.7, 47.4, 51.4, 47.0, 42.4, 48.4			47.1 ± .44

Em on 3 plot basis = ± .88

--- Continued

Continued --

Variety	C.I.No.	Kans.No.	Yield bushels per acre			
			Ser. 1	Ser. 2	Ser. 3	Average

Soft winter wheat and new selections in soft wheat blocks

Clarks 40		505	49.7	55.0	50.4	51.7 ± 1.12
Nebraska 28	5147	34	52.4	46.4	53.7	50.8 ± 1.75 <i>1.52</i>
Kawvale	8180	2594	50.0	50.7	51.0	50.6 ± .20
Fulcaster	6471	317	47.7	51.7	50.7	50.0 ± .81
Currell	3326	501	42.4	43.4	45.4	43.7 ± .59 <i>.60</i>
Harvest Queen	6199	19	41.4	44.4	45.0	43.6 ± .75
Tenmarq	10089	2670	52.0	58.7	56.0	55.6 ± 1.31
Tenmarq		2668	53.7	56.4	53.4	54.5 ± .58 <i>.64</i>
Tenmarq		2669	51.0	53.0	50.0	51.3 ± .59
Kanred x Hd. Fed.	11373	2671	47.7	49.7	51.7	49.7 ± .78
Kanred (checks)	5146	2401	46.0; 44.7; 40.7	44.4; 44.4; 38.7	46.4; 41.7; 41.7	43.5 ± .34 <i>.58</i> ± .59 <i>Em on 9 plot basis</i> <i>Em, 3 plot basis</i>

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Hard Winter Wheats in Triplicate Test. Manhattan, Kansas 1930-31

DATE OF SEEDING

Sept. 25, 1930

DATE OF EMERGENCE

Oct. 2, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Stand			LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				000 Omitted.				GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
									Plants Per Foot Row	Plants Per Square Foot	Plants Per Acre							
						Per ct.	Per ct.	Inches	Per-ct.	Per-ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.		
Kanred x Marquis	10090 ✓	5-26	6-20	261	25		100	44.3	672	2854	23.3	54.6	3276	5400	59.8			
Kooperatoroka ✓	8861 ✓	5-26	6-22	263	27		"	47.3	622	2598	35.0	54.2	3252	6000	61.0			
Cheyenne	8885 ✓	5-26	6-21	262	26		"	42.0	625	2818	11.7	53.1	3186	4600	61.6			
Early Blackhull	8856 ✓	5-15	6-17	258	33		"	38.0	637	2628	23.3	52.5	3150	5200	64.6			
Minturki	6155 ✓	5-27	6-22	263	26		"	49.0	582	2638	18.3	50.7	3042	5800	59.0			
Nebr. # 60	6250 ✓	5-28	6-23	264	26		"	44.0	642	2787	8.3	47.7	2862	5000	60.7			
Blackhull	6251 ✓	5-24	6-21	262	28		"	42.3	647	2618	8.3	47.5	2850	4600	64.2			
Tennmarq	6936 ✓	5-25	6-21	262	27		"	41.7	617	2479	3.3	47.4	2844	4200	61.3			
Oro	8220 ✓	5-27	6-23	264	27		"	47.7	647	2932	36.7	47.2	2832	5600	59.1			
Hoys # 2	6686 ✓	5-28	6-23	264	26		"	46.0	627	2932	35.0	47.0	2820	5400	59.0			
Turkey.	1558 ✓	5-26	6-22	263	27		"	44.0	612	2723	23.0	46.0	2760	4400	62.1			
Prelude x Kanred.	8886 ✓	5-19	6-18	259	30		"	44.0	647	2444	10.0	45.5	2730	3800	63.9			
Superhard.	8054 ✓	5-23	6-21	262	29		"	41.0	707	2688	32.0	45.5	2730	4800	64.0			
Kharkov	2193 ✓	5-27	6-22	263	26		"	44.0	577	2588	23.0	44.9	2694	4400	60.8			
Kanred x Hd. Fed.	6.516	5-22	6-22	263	31		"	41.5	680	2447	0.0	41.9	2514	4000	62.7			
Fulhard	8257 ✓	5-23	6-21	262	29		"	44.0	717	2537	1.3	40.9	2454	4100	63.6			
Kanred (checks) ✓	5146 ✓	5-27	6-22	263	26		"	44.0	614	2857	30.4	47.1	2826	4600	59.1			

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Soft Winter Wheats in Triplicate Test. Manhattan, Kans. 1930-31

DATE OF SEEDING *Sept. 26, 1930*

DATE OF EMERGENCE *Oct. 3, 1930*

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Stand		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Per cent	Omitted		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Clark's 40	Ka 505✓	5-27	6-23	263	27		100	51.0	533	2484	12.0	51.7	3102	5600	61.5		
Nebr 28	5147✓	5-16	6-16	256	31		"	41.0	682	2842	1.3	50.8	3048	7000	60.9		
Kawvale	8180✓	5-24	6-20	260	27		"	45.0	652	2444	0.0	50.6	3036	4800	60.1		
Fulcaster	6471✓	5-25	6-21	261	27		"	48.5	587	2394	16.6	50.0	3000	5800	61.2		
Currell	3326✓	5-24	6-21	261	28		"	50.0	612	2419	12.0	43.7	2622	5600	61.2		
Harvest Queen	6199✓	5-27	6-23	263	27		"	53.5	612	2399	10.0	43.6	2616	6000	59.9		
New Selections (Grown in Block with Soft Wheats).																	
	Ka. no.																
Jennings	2670✓	5-24	6-21	261	28		"	44.5	567	2275	1.3	55.6	3336	4200	59.6		
" "	2668✓	5-25	6-22	262	28		"	46.0	612	2424	6.6	54.5	3270	4600	59.9		
" "	2669✓	5-18	6-20	260	33		"	43.0	692	2603	5.0	51.3	3078	5000	61.9		
Kanred x Hd. Fed.	2671	5-17	6-19	259	33		"	39.7	647	2758	0.0	49.7	2982	4000	61.7	✓	
Kanred (checks) ~	2401	5-27	6-22	262	26		"	44.3	652	2688	35.6	43.5	2610	4200	59.2		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Hard Winter Wheats Grown in single plot test - Manhattan, Ks.,
1930-31

DATE OF SEEDING Sept. 26, 1930

DATE OF EMERGENCE Oct. 3, 1930

VARIETY	G. I. No. Ks. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	Stand		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				Plants per foot	Rust 000							

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Data from the 1931 Winter Wheat Variety Test at Colby (Kansas) Experiment Station.

DATE OF SEEDING

September 15, 1930

DATE OF EMERGENCE

September 22

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Fully		Emer- gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
		Headed	Ripe														
Nebraska 50	8885	6-3	6-30			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Blackhull	6251	5-30	6-28					38				43.9			62-		
Turkey		6-2	6-28					36				43.6			60+		
Nebraska 60	6250	6-5	6-30					38				41.6			59		
Kharkof Hays No.2	6686	6-3	6-29		c			37				41.6			59+		
Early Blackhull		5-24	6-26					32				41.1			60+		
Kanred	5146	6-2	6-28					37				40.5			60+		
Oro	8220	6-3	6-30					37				40.2			60+		
Tenmarq (Colby)		5-30	6-27					36				40.0			59+		
Kharkof	1442	6-2	6-28					36				39.7			60+		
Tenmarq (439)	6936 ?	5-30	6-27					36				39.3			59		
P x K	8886	5-27	6-26					36				38.5			60		
Cooperatoroka		6-3	6-30					38				38.4			59		
Minturki	6155	6-6	7-1					39				32.6			58+		

See Letter 10-10-31

Uniformly Good
No Winter Killing

None

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Valentine Sub-Station

DATE OF SEEDING September 10, 1930.

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Tenmarz	6936	6-20	7-6			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
		6-20	7-6			98	100	24				8.60	516				X
		6-20	7-6			98	100	24				8.73	513				
		6-20	7-6			98	100	24				8.00	480				
Average		6-20	7-6			98	100	24				8.44	503		55.5		
Blackhull	6251	6-20	7-12			95	99	25				9.45	567				X
		6-20	7-12			95	98	25				8.80	528				
		6-20	7-12			95	98	25				8.86	531				
Average		6-20	7-12			95	98	25				9.07	542		58.0		
Nebr. 50		6-20	7-3			98	100	22				10.8	648				X
Cheyenne		6-20	7-3			98	100	22				10.6	640				
		6-20	7-3			95	100	22				7.9	496				
Average		6-20	7-3			97	100	22				9.78	575		58.0		
Miniturki	6155	6-20	7-15			98	100	24				7.45	448				X
		6-20	7-15			98	100	25				8.35	500				
		6-20	7-15			95	100	25				8.80	532				
Average		6-20	7-15			97	100	24 ³ / ₄				8.20	493		56.5		
Oro	8220	6-20	7-3			95	100	23				6.60	400				X
		6-20	7-3			95	100	23				7.35	440				
		6-20	7-3			95	100	23				7.86	436				
Average		6-20	7-3			95	100	23				7.0	425		56.5		
Kruse		6-22	7-13			80	100	24				9.60	576				X
		6-22	7-13			90	100	24				7.95	476				
		6-22	7-13			90	100	24				7.75	464				
Average		6-22	7-13			86 ² / ₃	100	24				8.44	495		58		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Valentine Sub-Station

DATE OF SEEDING September 10, 1930.

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				Leaf	Stem		Grain	STRAW	Test weight per bushel	Protein content	U. S. grade	
<i>Turkey</i> So. Dakota 4300	10015	6-18	7-3			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	X
		6-18	7-3			98	100	24				8.80	428				
		6-18	7-3			98	100	24				10.00	600				
		6-18	7-3			98	100	24				10.93	656				
<u>Average</u>		6-18	7-3			98	100	24				9.91	561		58		
<i>Turkey</i> So. Dakota 4319	10016	6-18	7-5			98	100	23				7.36	436				X
		6-18	7-5			98	100	23				9.53	572				
		6-18	7-5			98	100	23				10.60	636				
<u>Average</u>		6-18	7-5			98	100	23				9.13	548		57		

Average agronomic data recorded on 28 varieties of winter wheat grown in replicated 1/40th acre plats at the North Platte Substation, North Platte, Nebr., in 1931

Date of seeding
Emergence

9-16-30

9-23-30

VARIETY.	C. I. No.	DATES.			DAYS TO MATURITY FROM—		Stand, thousand plants per acre.	Winter survival.	Height, inches.	Rust.		Lodging.	ACRE YIELD.			Bushel weight, pounds.
		Emergence.	Headed.	Ripe.	Emergence.	Head-ing.				Leaf.	Stem.		Grain.		Straw, pounds.	
													Bushels.	Probable error.		
Kanred x Prelude	8886		5-24-31	6-27					34 24				36.1	✓		
Early Blackhull	8856		5-18	6-27			Perfect	100	29 25	trace	none	none	30.0	✓		
Fulhard	8257		5-26	7-3				in all cases	36 27				35.1	✓		
Marquis x Kanred																
449	10009		5-27						35 22				34.3	✓		
Blackhull	6251		5-27						35 25				36.8	✓		
Tenmarq	6936		5-28						35 25				38.1	✓		
Cheyenne	8885		5-27						34 23				41.5	✓		
Kanred	5146		5-28						34 25				36.8	✓		
Superhard	8054		5-27						32 25				35.0	✓		
Kanmarq	6937		5-27						33 25				37.6	✓		
Nebraska 60	6250		5-31						36 27				41.5	✓		
Turkey (Local)			5-27						37 27				39.3	✓		
Kanred x Minturki																
N P 14	10012		6-1						38 27				32.7	✓		
Beloglina Selection																
N P 11	8884		5-29						35 26				39.3	✓		
Montana 36	5549		5-30						36 27				38.1	✓		
Newturk	6935		5-30						34 26				40.1	✓		
Kharkof	1442		5-29						34 26				38.1	✓		
Nebraska 30	7358		5-31						36 28				39.6	✓		
Sherman	4430		5-31						35 27				40.6	✓		
Nebraska 6	6249		5-31						36 25				37.8	✓		
Oro	8220		5-29						35 27				38.3	✓		
Beloglina	1543		5-29						33 28				34.5	✓		
Beloglina Selection																
N P 15, 1543-67			5-29						35 26				32.4	✓		
Minturki	6155		5-31						36 27				34.1	✓		
Marquis x Kanred	441 10008		5-29						36 29				34.3	✓		
Kharkof Hays NO. 2	6686		5-31						37 31				33.1	✓		
Karmont	6700		5-29						35 29				35.6	✓		
Turkey Sel	10016		5-26	6-27					35 29				36.6	✓		

C I FORM No. 13,

6-2503

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Agronomic data for 21 varieties of winter wheat from three replications grown on cropped land, and
eight varieties grown once on fallow on 1/50 acre plats

DATE OF SEEDING

Fort Hays Expt. Station, Hays, Kansas.

DATE OF EMERGENCE 9-30

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST			ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Hail	Broken	GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Harvest Queen	6199	5-24	6-22	236	265			40		10	36	21.0			60		
Kawvale	8180	5-23	6-21	235	264			39		40	20	15.3			58		
Fulcaster	5471	5-25	6-21	237	264			37		40	28	17.8			60		
Oro	6220	5-25	6-24	237	267			35		8	30	24.6			61		
Nebraska Number 60	6250	5-27	6-24	239	267			38		5	21	25.1			60		
Kharkof Hays No. 2	6686	5-26	6-22	238	265			36		5	18	25.6			60		
Kharkof	1442	5-27	6-22	239	265			34		5	25	20.6			60		
Minturki	6155	5-26	6-23	238	266			38		5	21	19.8			58		
Nebfaska Number 50	8885	5-25	6-23	237	266			34		5	18	26.7			60		
Turkey	1558	5-25	6-21	237	264			35		5	25	24.0			60		
Ellis Co. Turkey (Local)		5-26	6-22	238	265			36		5	23	22.9			60		
Cooperatorka	8861	5-24	6-22	236	265			36		5	15	22.2			60		
Imported Red Russian	8861	5-24	6-22	236	265			34		5	15	21.4			61		
Kanred	5146	5-25	6-22	237	265			36		8	25	21.7			60		
Tenmarq	6936	5-23	6-21	235	264			36		5	18	22.5			58		
Kan. x Marquis Ks.2642		5-25	6-21	237	264			35		5	20	22.5			59		
Blackhull	6521	5-24	6-20	236	263			35		5	15	25.6			61		
Superhard	8054	5-24	6-20	236	263			35		5	15	25.6			63		
Nebraska Number 28	5146	5-17	6-18	229	261			33		18	30	14.0			61		
Prelude x Kan. Ks. 2628	8886	5-18	6-18	230	261			35		15	18	21.8			62		
Early Blackhull	8856	5-15	6-18	227	261			35		15	15	24.3			62		
Varieties grown but once on fallow																	
Marq. x Kan. H.C. 312		5-24	6-22	236	265			42				23.3			61		
Marquis x Kanred H.C. 318		5-22	6-20	234	263			39				34.2			60		
P 1066-1 x Burbank HC 321		5-26	6-23	238	266			42				35.8			59		
Tenmarq	6936	5-23	6-21	235	264			44				35.0			58		
Kanred x Marquis Ks.2642		5-25	6-21	237	264			44				36.7			59		
Blackhull	6521	5-23	6-20	235	263			44				40.0			62		
Superhard	8054	5-23	6-20	235	263			45				36.7			62		
Nebraska No. 28	5146	5-17	6-18	229	261			38				34.2			60		

Table _____

Single plot and mean yields of winter wheat varieties replicated three times on eroded land at the Fort Hays Experiment Station, Hays, Kansas 1951. Also yields of eight varieties on follow.

NUMBER.	VARIETY.	Bushel yield per acre										
		Series			Mean							
		1	2	5	all plots							
Plat.	C. I.											Rank
6199	Harvest Queen	20.9	19.5	21.7	21.0						15	
6180	Marvale	13.1	12.9	20.6	15.5						17	
5471	Pulcstar	15.0	16.7	21.7	17.8						16	
6220	One	21.7	20.2	26.6	24.6						4	
6650	Nebraska Number 60	22.9	25.8	26.7	25.1						5	
6686	Heart of Days No. 2	21.7	20.5	26.7	25.6						2	
1442	Heart of	19.2	21.7	20.6	20.6						14	
6155	Mintark (Cheyenne)	18.7	18.7	22.1	19.8						15	
6695	Nebraska Number 50	24.6	24.8	31.2	26.7						12	
1558	Turkey	22.1	24.2	25.6	24.0						6	
	Ellis County Turkey	22.5	23.5	23.9	22.9						7	
	Cooperativa	21.7	20.7	21.5	22.2						9	
	Imported Red Russet	20.6	21.2	23.1	21.4						12	
5146	Teared	19.6	20.8	24.6	21.7						11	
6936	Tennary	21.2	21.7	24.6	22.5						8	

Table _____ Continued

NUMBER.		VARIETY.	Bushel yield per acre					Rank
Plat.	C. I.		Series			Mean all plots		
			1	2	3			
		Marred X Marquis No. 2642	23.3	19.2	25.0	22.5	2a	
6521		Blackhall	27.5	32.5	30.0	36.7	1	
8034		Superhard	25.0	32.5	29.2	35.6	2a	
5146		Nebraska Number 23	11.2	11.2	19.6	14.0	13	
		Prelude X Marred No. 2628	23.3	15.8	26.2	21.3	10	
6356		Early Blackhall (Varieties grown but once on fallow) M x K H.R. 55 '30 H.C. 512	21.7	21.7	29.6	24.3	5	
		M x K H.C. 513 H.R. 41 '30				34.2		
		P 1066-1 X Barbark H.R. 1022 '30				35.8		
6936		Tennant				35.0		
		Marred X Marquis No. 2642				36.7		
6521		Blackhall				40.0		
8034		Superhard				36.7		
5146		Nebraska No. 23				34.2		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Valentine Sub-Station - *Nebraska*

DATE OF SEEDING September 10, 1930.

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD		GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade
Kharkof 1442	1442	6-18	7-4			98	100	24				9.13	548			
		6-18	7-4			98	100	24				9.33	560			
		6-18	7-4			98	100	24				10.33	620			
		<u>Average</u>	<u>6-18</u>	<u>7-4</u>		<u>98</u>	<u>100</u>	<u>24</u>				<u>9.59</u>	<u>576</u>		<u>58</u>	
												9.6				
Kharkof <i>sel.</i>	6686	6-18	7-3			98	100	24				9.20	552			
		6-18	7-3			98	100	24				9.73	584			
		6-18	7-3			98	100	24				9.60	576			
		<u>Average</u>	<u>6-18</u>	<u>7-3</u>		<u>98</u>	<u>100</u>	<u>24</u>				<u>9.51</u>	<u>570</u>		<u>58</u>	
Nebr. 60	6250	6-20	7-15			85	100	24				7.46	448			
		6-20	7-15			98	100	24				9.20	552			
		6-20	7-15			98	100	24				9.66	580			
		<u>Average</u>	<u>6-20</u>	<u>7-15</u>		<u>98</u>	<u>100</u>	<u>24</u>				<u>8.77</u>	<u>527</u>		<u>58</u>	
Crimean <i>12</i>	—	6-20	7-10			98	100	23				7.88	472			
		6-20	7-10			98	100	23				10.00	600			
		6-20	7-10			98	100	23				9.86	592			
		<u>Average</u>	<u>6-20</u>	<u>7-10</u>		<u>98</u>	<u>100</u>	<u>23</u>				<u>9.24</u>	<u>555</u>		<u>58</u>	
Kanred	5146	6-18	7-12			98	100	24				8.86	496			
		6-18	7-12			98	100	24				9.07	544			
		6-18	7-12			98	100	22				6.21	376			
		<u>Average</u>	<u>6-18</u>	<u>7-12</u>		<u>98</u>	<u>100</u>	<u>23</u>				<u>7.36</u>	<u>478</u>		<u>53</u>	
Kanred X Prelude	3886	6-20	7-3			80	98	24			5	7.93	475			
		6-20	7-3			95	97	24			5	8.46	507			
		6-20	7-3			95	97	23			5	6.86	375			
		<u>Average</u>	<u>6-20</u>	<u>7-3</u>		<u>90</u>	<u>97</u>	<u>23</u>			<u>5</u>	<u>7.55</u>	<u>452</u>		<u>54.5</u>	

Plots

North Platte
1931

VARIETY, HYBRID, OR SELECTION	C E No.	Fallow			Corn Stubble			total Ave
		1	2	Ave	1	2	Ave	
Kanred x Prleude	8886	51.3	47.9	49.6	26.0	19.3	22.7	36.1
Early Blackhull	8856	40.0	35.3	37.7	24.6	20.0	22.3	30.0
Fulhard	8257	47.9	47.3	47.6	24.0	21.3	22.7	35.1
Marquis x Kanred	10009	47.9	42.6	45.3	24.0	22.6	23.3	34.3
Blackhull	6251	47.9	45.9	46.9	28.0	25.3	26.7	36.8
Tenmarq	6936	53.3	46.6	50.0	28.0	24.6	26.3	38.1
Cheyenne	8885	57.9	55.3	56.6	26.6	26.0	26.3	41.5
Kanred	5146	53.9	44.6	49.3	25.3	23.3	24.3	36.8
Superhard	8054	53.3	40.6	47.0	24.0	22.0	23.0	35.0
Kanmarq	6937	50.6	49.9	50.3	26.6	23.3	25.0	37.6
Nebraska 60	6250	50.6	55.3	53.0	32.0	28.0	30.0	41.5
Turkey (local)		49.9	53.9	51.9	25.3	28.0	26.7	39.3
Kanred x Minturki								
NP 14	10012	42.0	43.3	42.7	21.3	24.0	22.7	32.7
Beloglina Selection								
NP 11	8884	47.3	52.6	50.0	25.3	32.0	28.7	39.3
Montana 36	5549	47.9	48.6	48.3	25.3	30.6	28.0	38.1
Newturk	6935	51.3	51.9	51.6	24.0	33.3	28.7	40.1
Kharkof	1442	46.6	50.6	48.6	24.0	31.3	27.7	38.1
Sherman	4430	47.3	55.3	51.3	24.6	35.3	30.0	40.6
Nebraska 6	6249	47.3	51.3	49.3	22.0	30.6	26.3	37.8
Oro	8220	45.9	51.3	48.6	24.6	31.3	26.5	38.3
Beloglina	1543	40.6	49.3	45.0	23.3	24.6	24.0	34.5
Beloglina Selection								
NP 15	10013	45.9	36.6	41.3	24.6	22.6	23.6	32.4
Minturki	6155	45.2	45.9	45.6	23.3	22.0	22.7	34.1
Marquis x Kanred	10008	46.6	42.0	44.3	24.6	24.0	24.3	34.3
Hays No. 2	6686	41.3	39.3	40.3	25.3	26.6	26.0	33.1
Karmont	6700	42.0	45.2	43.6	26.0	29.3	27.7	35.6
Turkey Selection	10016	48.6	45.2	47.0	25.3	27.3	26.3	36.6

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Alliance, Neb.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

Sept. 13, 1930

DATE OF EMERGENCE

Sept. 19, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
<i>Neb. 60</i>	<i>6250</i>	.				Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
												<i>12.8</i>	<i>765.6</i>				
												<i>12.7</i>	<i>761.3</i>			X	
												<i>12.7</i>	<i>761.3</i>				
	<i>Ave</i>	<i>6/13</i>	<i>7/14</i>	<i>298</i>	<i>30</i>		<i>88</i>	<i>20</i>				<i>12.7</i>	<i>762.7</i>				
<i>Kharkov</i>	<i>1442</i>											<i>12.0</i>	<i>717.8</i>			X	
												<i>11.3</i>	<i>678.6</i>				
												<i>12.2</i>	<i>730.8</i>				
	<i>Ave</i>	<i>6/13</i>	<i>7/12</i>	<i>296</i>	<i>29</i>		<i>71</i>	<i>22</i>				<i>11.8</i>	<i>709.1</i>				
<i>Kharkov sel.</i>	<i>6686</i>											<i>11.9</i>	<i>713.4</i>				
												<i>12.2</i>	<i>730.8</i>				X
												<i>10.5</i>	<i>630.8</i>				
	<i>Ave</i>	<i>6/13</i>	<i>7/12</i>	<i>296</i>	<i>29</i>		<i>80</i>	<i>20.7</i>				<i>11.5</i>	<i>691.7</i>				
<i>Cheyenne (check)</i>	<i>8885</i>											<i>9.9</i>	<i>591.6</i>				
												<i>6.7</i>	<i>400.2</i>				
												<i>12.6</i>	<i>756.9</i>				
												<i>10.2</i>	<i>613.4</i>				
												<i>12.7</i>	<i>761.3</i>				
	<i>Ave</i>	<i>6/11</i>	<i>7/12</i>	<i>296</i>	<i>31</i>		<i>82</i>	<i>18.3</i>			<i>10.7</i>	<i>10.4</i>	<i>624.7</i>				

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Alliance, Neb.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
<i>Oro</i>	<i>8220</i>	<i>6</i>				Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds			
												<i>11.3</i>	<i>678.6</i>				
												<i>8.4</i>	<i>504.6</i>				
												<i>10.8</i>	<i>648.2</i>				
	<i>Ave</i>	<i>6/10</i>	<i>7/12</i>	<i>296</i>	<i>32</i>		<i>87</i>	<i>19.3</i>				<i>10.2</i>	<i>610.5</i>				
<i>Kaured</i>												<i>9.9</i>	<i>591.6</i>				
												<i>10.8</i>	<i>648.2</i>				
												<i>8.9</i>	<i>535.1</i>				
	<i>Ave.</i>	<i>6/13</i>	<i>7/14</i>	<i>298</i>	<i>31</i>		<i>75</i>	<i>19.3</i>				<i>9.9</i>	<i>591.6</i>				
<i>Winturki</i>	<i>6155</i>											<i>10.4</i>	<i>622.1</i>				
												<i>8.1</i>	<i>487.2</i>				
												<i>11.0</i>	<i>661.2</i>				
	<i>Ave.</i>	<i>6/14</i>	<i>7/13</i>	<i>297</i>	<i>29</i>		<i>89</i>	<i>23.3</i>				<i>9.8</i>	<i>590.2</i>				
<i>Blackhull</i>	<i>6251</i>											<i>9.0</i>	<i>539.4</i>				
												<i>5.3</i>	<i>317.6</i>				
												<i>11.7</i>	<i>700.4</i>				
	<i>Ave.</i>	<i>6/11</i>	<i>7/13</i>	<i>297</i>	<i>32</i>		<i>67</i>	<i>20.3</i>				<i>8.7</i>	<i>519.1</i>				

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Alliance, Neb.
1931.

DATE OF SEEDING

Sept. 13, 1930

DATE OF EMERGENCE

Sept. 19, 1930

VARIETY	C. I. No.	✓ DATES ✓		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Kruse, (Neb. 1058)						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
												8.6	513.3				
												6.2	374.1			X	
												8.1	487.2				
1 Ave		6/13.3	7/12	296	29		85	19				7.6	458.2				
Crimean #12 (Neb. 1035)												9.6	578.6				
												9.7	582.9				X
												11.5	691.7				
												10.3	617.7				
Turkey sel.	10015	6/12.7	7/13.3	297	31		73	20				11.5	687.3				
												13.5	809.1			X	
												13.8	830.6				
												12.9	775.7				
Turkey sel.	10016	6/9	7/10.3	294	31		92	20				9.9	591.6				
												14.2	852.6				
												13.5	809.1			✓	
												12.5	751.1				

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Alliance, Neb.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD		GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade
<i>Kaurel x Prelude</i>	<i>8886</i>	<i>6/8</i>				Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.
												<i>6.8</i>	<i>408.9</i>			
												<i>9.8</i>	<i>587.3</i>			
												<i>4.7</i>	<i>282.7</i>			
<i>Tennmarq</i>	<i>6936</i>	<i>Ave 6/8</i>	<i>7/11</i>	<i>295</i>	<i>33</i>			<i>58</i>				<i>7.1</i>	<i>426.3</i>			
												<i>5.4</i>	<i>234.9</i>			
												<i>5.9</i>	<i>256.7</i>			
												<i>33</i>	<i>143.6</i>			
		<i>Ave 6/16</i>	<i>7/14</i>	<i>298</i>	<i>28</i>			<i>63</i>				<i>4.9</i>	<i>211.7</i>			
												<i>3.5</i>				
												<i>5.6</i>				
												<i>4.9</i>				

Estimated Spring Survival (in per cent) of Winter Wheat

Varieties Grown in Field Plots at
Alliance, Nebraska, 1930-1931 - (April 18, 1931).

C. I. NO.	Variety	Replication			Average
		First	Second	Third	
8886	Kanred x Prelude	40 *	75	60	58
6936	Tenmarq	50	70	70	63
6251	Blackhull	55	75	70	67
8885	Nebr. 50	80	85	80	82
6155	Minturki	88	90	88	89
8220	Ore	85	90	85	87
—	Kruze	80	85	90	85
1442	Kharkof	70	60	82	71
6686	Hays #2	75	75	90	80
6250	Nebr. 60	85	85	95	88
5146	Kanred	70	70	85	75
8885	Nebr. 50	75	—	90	83
—	Crimean 12	65	65	86	73
10015	Turkey	95	85	95	92
10016	Turkey	95	85	95	92

* Some soil blowing effect probably included in estimate.

GENERAL SUMMARIZATION OF THE
CROP GROWING SEASON AT ALLIANCE, 1930-31.

The winter wheat varieties at Alliance were seeded September 13, and emerged September 19 to good stands. Fall moisture was ample so that they went through the winter in good shape so far as this factor was concerned. Differential winter-killing occurred and was noted about the middle of April, as per the enclosed data. It is felt that injury from the late March blizzard was not fully reflected in the survival notes taken in mid-April. May was very dry, with the result that the varieties approached the heading state in a somewhat latent condition. A severe frost late in May also contributed to differential response. Hence the early varieties - Kanred x Prelude and Tenmarq, when heading some three weeks later, had about ten per cent blighted heads, supposedly due to injury in the boot. Heading of all the varieties was very ^{uniform} ~~uniform~~ due to the combined effects of winter-killing, spring drouth and late frost. In fact, neither the heading nor the ripening dates represent a true, normal behavior of the varieties, hence the heading "days to maturity from" is of little or no value. Stand, rust and lodging notes ^{not} ~~were~~ taken. It is known that no lodging occurred except for a slight bending in two of the varieties ^{in one replication} ~~which~~ endured for only a day following a severe wind storm. Test weight per bushel was not secured since facilities for making this determination were wanting at the Alliance station.

The plats at Alliance were .023 acres in size and replicated three times. The soil type is sandy loam.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Dry-Land Agriculture, Huntley, Montana.
Winter Wheat Varieties, 1931.

DATE OF SEEDING September 13, 1930

DATE OF EMERGENCE October 20, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY	
		Headed	Ripe	Emergence	Heading	Per ct.	Inches	Leaf	Sheaf	Per ct.	Bushels	Pounds	Straw	Test weight per bushel	Protein content
Kharkof		6-15	7-10	263	25	100	83	12	0	0	No yields obtained.				
Alton		"	"	"	"	100	83	14	0	0	"	"	"	"	
Karmont		"	"	"	"	100	80	15	0	0	"	"	"	"	
Riddit		"	"	"	"	100	83	14	0	0	"	"	"	"	
Montana 26		"	"	"	"	100	83	13	0	0	"	"	"	"	
Turkey		"	"	"	"	100	83	12	0	0	"	"	"	"	
Newturk		"	"	"	"	100	80	11	0	0	"	"	"	"	
Nebraska 60	6250	"	"	"	"	100	30	11	0	0	"	"	"	"	
Minturki-Belog	8033	"	"	"	"	100	80	10	0	0	"	"	"	"	
Buffum		"	"	"	"	100	80	11	0	0	"	"	"	"	
Minturki-Belog.	8034	"	"	"	"	100	80	11	0	0	"	"	"	"	
Buffum		"	"	"	"	100	80	11	0	0	"	"	"	"	
Averages of three 1/50 acre plots.															

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station
on Winter wheat varieties grown in duplicate 56th. acre plot- on
the Dickinson Substation in 1931

DATE OF SEEDING Sept. 10, 1930

DATE OF EMERGENCE Sept. 20 to Oct. 4.
mostly the latter

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Kharkof	1583	6-16	7-10	269	24	75	78	17									
Karmont	6700	6-16	7-10	269	24	70	71	17									
Turkey	1571	6-16	7-10	269	24	75	76	17									
Minturki	6155	6-18	7-11	270	23	75	76	17									
Beloglina	1543	6-17	7-11	270	24	80	80	17									
Kanred-x Buffum	8030	6-17	7-11	270	24	75	77	17									
		6-18															
Minturkix Bel.-Buffum	8033		7-11	270	23	70	72	17									
Minhardi x Minturki	8034	6-18	7-11	270	23	75	80	17									
Kanred	5146	6-17	7-11	270	24	70	74	16									
Nebraska No. 60	6250	6-17	7-11	270	24	75	81	16									

Crop failure due to drought, and injury from cutworms and rabbits

Individual and average plat yields in a varietal experiment with winter wheats seeded at the rate of 3 pecks per acre with the furrow drill in quadruplicate fifty-second acre plats at the Archer Field Station., Sept. 12, 1930.

NUMBER.		VARIETY.	Grain Bus. per Acre					Straw pounds per acre							
Plat.	C. I.		E	F	E	F	Aver.	E	F	E	F	Aver.			
	5146	Kanred	16.9	18.2	14.7	19.1	17.2				1590	2030	1980	1980	1895
	6250	Nebraska No. 60	15.2	16.5	15.6	17.8	16.3				1170	1610	1920	2050	1688
1564-2-11		Pesterboden	20.8	17.8	19.9	19.1	19.4				1610	1790	2180	1460	1760
	1442	Kharkof	19.1	18.6	17.3	19.5	18.6				1720	1740	2080	1950	1873
	1543	Beloglina	16.5	16.0	16.9	16.5	16.5				1870	1640	1590	1610	1678
	1571	Turkey	19.1	18.2	20.8	20.4	19.6				2240	1510	2130	1900	1945
	6700	Karmont	17.3	15.6	19.9	18.2	17.8				1820	1660	2440	2030	1988
	8033	Minturki x Bel. Buff.	17.8	12.1	17.3	13.0	15.1				2050	1870	2600	2340	2215
	8215	Minhardi x Minturki	18.6	13.4	18.6	19.5	17.5				2260	2050	2520	2470	2325
	8034	Minhardi x Minturki	17.8	14.7	18.6	18.6	17.4				2310	2240	2520	2260	2333
	6155	Minturki	14.7	11.3	15.6	14.7	14.1				1720	2180	2180	1980	2015
	8889	Minard x Minhardi	16.5	14.3	18.2	17.8	16.7				1610	1740	2030	2050	1858
	1438	Alton	16.9	16.0	18.2	18.6	17.4				1850	1640	1770	1740	1750
	5149	Minhardi	16.9	15.6	17.3	19.1	17.2				2370	2080	1820	1720	1998
	6935	Newturk	21.2	17.3	13.0	14.7	16.6				1590	1560	1560	1720	1608

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Archer Field Station Archer Mo.

DATE OF SEEDING

September 12 1930

DATE OF EMERGENCE

September 18 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Harred	5146	6-25	7-22			100	85	27	0	0	0	17.2	⑨	1895	59		✓
Nebraska No 60	6250	6-25	7-23			100	85	26	0	0	0	16.3	⑬	1688	59		✓
Peterbodem	1364-2-11	6-24	7-22			100	85	29	0	0	0	19.4	⑫	1760	57		✓
Harkof	1442	6-25	7-22			100	85	30	0	0	0	18.6	③	1873	58		✓
Beloglina	1543	7-2	7-23			100	85	29	0	0	0	16.5	⑫	1678	58		✓
Turkey	1571	6-25	7-22			100	85	28	0	0	0	19.6	①	1945	58		✓
Harmon	6700	6-25	7-23			100	85	30	0	0	0	17.8	④	1988	57		✓
Minturki x Bel. Buff.	8033	7-2	7-23			100	80	29	0	0	0	15.1	⑭	2215	57		✓
Minhardi x Minturki	8215	6-25	7-23			100	82	30	0	0	0	17.5	⑤	2325	58		✓
Minhardi x Minturki	8034	6-25	7-23			100	90	31	0	0	0	17.4	⑥	2333	58		✓
Minturki	6155	7-2	7-23			100	83	29	0	0	0	14.1	⑮	2015	58		✓
Minard x Minhardi	8889	6-25	7-23			100	85	28	0	0	0	16.7	⑩	1858	57		✓
Altou	1438	6-25	7-23			100	85	28	0	0	0	17.4	⑦	1750	58		✓
Minhardi	5149	6-25	7-22			100	90	27	0	0	0	17.2	⑧	1998	56		✓
Newturk	6935	6-25	7-21			100	95	26	0	0	0	16.6	⑪	1608	58		✓
Ducklow x Sevier	14-85					100	00										

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Judith Basin Br. Station, Mussouri, Montana

DATE OF SEEDING *September 11, 1931*

DATE OF EMERGENCE *September 19, 1931*

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Newtuck	6935						0.3										
Leo	8220						0.3	✓									
Beloglina	1543						2.0	✓									
Minard	6690						11.0					0.7	13		59.5		
Turkey	6152						14.0					2.0	10		59.5		
"	6250						10.0					0.6	14		60.0		
Minhardi x Minturki	8034						10.0					1.1	12		61.5		
Minturki x Bel-Buf. 5546	8033						16.0					2.9	9		59.5		
Eureka x Minhardi	8036						24.0					8.3	1		61.0		
Kanred x Minhardi	8040						20.0					3.7	7		58.5		
Kanred x Minnessa	8045						24.0					5.3	5		60.0		
Kharkef	6938						28.0					4.3	6		58.0		
Turkey 6152 x Minnessa	8887						29.0					7.4	3		60.0		
Kanred x Minhardi	10000						20.0					3.5	8		58.5		
"	8042						24.0					5.4	4		58.0		
Minhardi x Minturki	8215						34.0					7.9	2		59.0		
Minard x Minhardi	8889						13.0					1.2	11		59.5		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

(continued)

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Judith Basin Br. Station, Moccasin, Montana

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Kharkov	6686						0										
"	1442						0										
Minturki	6155						3.0	✓									
Karmont	6700						0										
Mont. 36	5549						0										
Kanned	5146						0										
Turkey	1558						0										
Smithsonian							0										

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

Sept. 11, 1930

DATE OF EMERGENCE

Sept 19, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
												I	II				
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Bushels	Pounds	Pounds	Per ct.	
Newtuck	6935															0	
Oro	8220															0	
Beloglina	1543															0	
Minhard	6690											0	1.3	1.3	0	0.7	
Turkey	6152											0.8	2.9	3.3	0.8	2.0	
Turkey	6250											0	0.8	1.3	0.4	0.6	
Minhardi x Minturki	8034											1.3	1.7	0.4	0.8	1.1	
Minturki x Bel. Ref 5540	8033											1.3	2.1	1.7	6.3	2.9	
Eureka x Minhardi	8036											4.2	11.7	7.5	9.6	8.3	
Kanred x Minhardi	8040											1.7	6.7	3.8	2.5	3.7	
" x Minrosa	8045											2.1	8.8	5.4	5.0	5.3	
Kharhof	6938											1.7	5.8	5.4	4.2	4.5	4.3
Turkey 6152 x Minrosa	8887											4.6	7.5	11.3	6.3	7.4	
Kanred x Minhardi	10000											0.8	2.9	7.9	2.5	3.5	
" "	8042											2.5	5.8	9.2	4.2	5.4	
Minhardi x Minturki	8215											5.4	9.6	12.1	4.6	7.9	
Minard x Minhardi	8889											0.4	1.3	2.5	0.4	1.2	
Kharhof	6686															0	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Continued

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct. <i>avg</i>	
<i>Kharkef</i>	<i>1442</i>															<i>0</i>	
<i>Minturke</i>	<i>6155</i>															<i>0</i>	
<i>Kar Mont</i>	<i>6700</i>															<i>0</i>	
<i>Mont. 36</i>	<i>5549</i>															<i>0</i>	
<i>Karned</i>	<i>5146</i>															<i>0</i>	
<i>Turkey</i>	<i>1558</i>															<i>0</i>	
<i>Smithsonian</i>																<i>0</i>	
<i>a single plot</i>																	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Agronomic data, winter wheat varieties, triplicate 1/120 acre plots, Hoxsman, Montana, 1930-31

DATE OF SEEDING

Sept. 4

No irrigations

DATE OF EMERGENCE

Sept. 12

Sept. 4

Sept. 12

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
		June	July			Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Nebraska 60	6250	26	26	287	30		95	42			17	53.6	3213	6808	59.0		
Kanred	5146	25	26	286	31		94	41			22	52.2	3136	6769	59.2		
Mint. x Bel. x Buf.	8033	26	25	287	29		99	44			12	51.7	3100	7117	59.1		
Minard x Minhardi	8889	24	26	285	32		99	41			7	50.7	3041	6799	59.1		
Minturki	6155	26	25	287	29		94	47			6	49.3	2961	6645	58.2		
Minhardi x Minturki	8034	26	25	287	29		98	45			6	48.7	2921	6750	58.8		
Minhardi x Minturki	8215	25	26	286	31		96	45			6	47.3	2841	6861	58.3		
Kharkov	1442	24	26	285	32		91	40			17	46.0	2816	6568	59.6		
Karmont	6700	27	27	288	30		91	41			18	42.2	2534	6740	58.2		
Newturk	6935	25	27	286	32		95	43			20	41.1	2464	6124	57.6		
Cooperatorka Mont. 49	-	21	27	282	36		93	45			15	46.0	2761	6134	59.0		
Turkey x Florence, (Mont. 52)	-	26	24	287	28		90	43			12	44.9	2697	6239	58.2		
Turkey x Mint. N.N. 487 (Mont. 56)	-	27	24	288	27		98	43			6	44.1	2649	6861	58.2		
Montana 36	5549	26	27	287	31		90	44			15	41.8	2507	6367	58.9		

INDIVIDUAL PLAT YIELDS, WINTER WHEAT VARIETIES, TRIPPLICATE 1/120
ACRE PLATS, BOZEMAN, MONTANA, 1930-31

Variety	C. I. No.	Mont. No.	Bushels per acre				E _m
			I	II	III	Ave.	
Nebraska 60	6250	5	56.7	54.0	50.0	53.6	+ 1.32
Kanred	5146	2	53.1	55.6	48.0	52.2	+ 1.51
Mint. x Bel. x Buf	8033	64	47.0	50.0	58.0	51.7	+ 2.21
Minard x Minhardi	8889	95	46.0	46.0	60.0	50.7	+ 3.15
Minturki	6155	10	46.0	52.0	50.0	49.3	+ 1.59
Minhardi x Minturki	8034	73	46.0	46.0	54.0	48.7	+ 1.89
Minhardi x Minturki	8215	92	46.0	42.0	54.0	47.3	+ 2.38
Kharkov	1442	3	46.0	54.8	40.0	46.9	+ 2.90
Karmont	6700	7	42.5	44.2	40.0	42.2	+ .08
Newturk	6935	33	42.5	44.7	36.0	41.1	+ 1.76
Cooperatorka	-	49	46.0	44.0	48.0	46.0	+ .24
Turkey x Florence	-	52	34.8	46.0	54.0	44.9	+ 3.76
Turkey x Minturki N. N. 487	-	56	38.4	46.0	48.0	44.1	+ 1.97
Montana 36	5549	36	46.0	39.3	40.0	41.8	+ 1.43

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AVERAGE AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Winter wheat varieties sown on fallow in triplicated 1/64 acre plots at the
Northern Montana Branch Station, Havre 1931

DATE OF SEEDING September 16, 1930 (with furrow drill)

DATE OF EMERGENCE September 24, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Montana 36	5549	6-9	7-12	299	33		100	14				4.6	277	341			
Minturki	6155	6-10	7-9	296	29		100	15				4.1	245	480			
Kanred	5146	6-8	7-10	297	32		100	13				4.1	245	373			
Minard X Minhardi	8889	6-8	7-11	298	33		100	14				3.9	235	448			
Karmont	6700	6-8	7-11	298	33		100	12				3.9	235	384			
Newturk	6935	6-8	7-9	296	31		100	15				3.7	224	288			
Minhardi X Minturki	8215	6-9	7-11	298	32		100	15				3.6	213	363			
Kharkof	1442	6-8	7-9	296	31		100	11				3.6	213	427			
Oro	8220	6-10	7-12	299	32		100	16				3.6	213	363			
Nebraska 60	6250	6-9	7-13	300	34		100	13				3.4	203	395			
Minturki X Beloglina																	
Buffum 17	8033	6-12	7-11	298	29		100	11				3.4	203	309			
Minhardi X Minturki	8034	6-11	7-11	298	30		100	14				3.2	192	469			
Turkey X Minessa	8028	6-12	7-14	301	32		100	15				3.0	181	416			
Kanred X Minhardi	8031	6-9	7-12	299	33		100	14				2.5	149	256			
Kanred X Buffum 17	8030	6-12	7-14	301	32		100	12				2.1	128	277			

Individual plat yields in bushels per acre for 15 varieties of
winter wheat grown on fallow in triplicated 1/64 acre plats

Havre, Montana 1931

NUMBER.		VARIETY.												
Plat.	C. I.		1st Rep			2nd Rep			3rd Rep			Average		
1442		Kharkof			4.3			2.7			3.7			3.6
5146		Kanred			3.7			3.2			5.3			4.1
6250		Nebraska 60			3.2			3.2			3.7			3.4
6155		Minturki			4.3			4.8			3.2			4.1
8034		Minhardi X Minturki			2.7			3.7			3.2			3.2
8033		Minturki X Beloglina-Buffum 17			3.2			4.8			2.1			3.4
6700		Karmont			3.7			5.3			2.7			3.9
8215		Minhardi X Minturki			3.7			4.3			2.7			3.6
8889		Minard X Minhardi			3.7			4.8			3.2			3.9
6935		Newturk			2.7			3.7			4.8			3.7
5549		Montana 36			4.3			6.4			3.2			4.6
8220		Oro			2.7			4.8			3.2			3.6
8028		Turkey X Minessa			2.7			3.7			2.7			3.0
8031		Kanred X Minhardi			2.7			2.7			2.1			2.5
8030		Kanred X Buffum 17			1.6			3.2			1.6			2.1

Date of seeding September 16, 1930.
with a furrow drill

Average agronomic data recorded for 15 winter wheat varieties
sown on fallow in triplicated 1/64 acre plats at the Northern
Montana Branch Station, Havre, 1931.

VARIETY.	C. I. No.	DATES.			DAYS TO MATURITY FROM—		Stand, thousand plants per acre.	Winter survival. %	Height, inches.	RUST.		Lodging. %	ACRE YIELD.				Bushel weight, pounds.
		Emergence.	Headed.	Ripe.	Emergence.	Head- ing.				Leaf.	Stem.		Grain.			Straw, pounds.	
													Bushels.	Probable error.	Pounds.		
Montana 36	5549	9-24	6-9	7-12	299	33		100	14				4.6		277	341	55.0
Minturki	6155	9-24	6-10	7-9	296	29		100	15				4.1		245	480	54.0
Kanred	5146	9-24	6-8	7-10	297	32		100	13				4.1		245	373	55.0
Minard X Minhardi	8889	9-24	6-8	7-11	298	33		100	14				3.9		235	448	55.0
Karmont	6700	9-24	6-8	7-11	298	33		100	12				3.9		235	384	55.0
Newturk	6935	9-24	6-8	7-9	296	31		100	15				3.7		224	288	54.0
Minhardi X Minturki	8215	9-24	6-9	7-11	298	32		100	15				3.6		213	363	55.0
Kharkof	1442	9-24	6-8	7-9	296	31		100	11				3.6		213	427	54.0
Oro	8220	9-24	6-10	7-12	299	32		100	16				3.6		213	363	55.5
Nebraska 60	6250	9-24	6-9	7-13	300	34		100	13				3.4		203	395	55.0
Minturki X Beloglina Buffum 17	8033	9-24	6-12	7-11	298	29		100	11				3.4		203	309	55.0
Minhardi X Minturki	8034	9-24	6-11	7-11	298	30		100	14				3.2		192	469	55.0
Turkey X Minessa	8028	9-24	6-12	7-14	301	32		100	15				3.0		181	416	55.5
Kanred X Minhardi	8031	9-24	6-9	7-12	299	33		100	14				2.5		149	256	54.0
Kanred X Buffum 17	8030	9-24	6-12	7-14	301	32		100	12				2.1		128	277	57.0

Individual plat yields of 15 varieties of winter wheat grown on fallow
in triplicated 1/64 acre plats- Havre, Montana 1931.

NUMBER.		VARIETY.	Average											
Plat.	C. I.		1st Rep		2nd Rep		3rd Rep		Pounds		Bus.			
			Pounds		Pounds		Pounds		Per Acre		Per			
			Straw Grain		Straw Grain		Straw Grain		Straw Grain		Acre			
	5549	Montana 36	4.0	4.0	8.0	6.0	4.0	3.0	341	277	4.6			
	6155	Minturki	9.0	4.0	7.5	4.5	6.0	3.0	480	245	4.1			
	5146	Kanred	5.5	3.5	5.0	3.0	7.0	5.0	373	245	4.1			
	8889	Minard X Minhardi	7.5	3.5	7.5	4.5	6.0	3.0	448	235	3.9			
	6700	Karmont	5.5	3.5	8.0	5.0	4.5	2.5	384	235	3.9			
	6935	Newturk	3.5	2.5	4.5	3.5	5.5	4.5	288	224	3.7			
	8215	Minhardi X Minturki	5.5	3.5	7.0	4.0	4.5	2.5	363	213	3.6			
	1442	Kharkof	7.0	4.0	3.5	2.5	9.5	3.5	427	213	3.6			
	8220	Oro	3.5	2.5	7.5	4.5	6.0	3.0	363	213	3.6			
	6250	Nebraska 60	6.0	3.0	5.0	3.0	7.5	3.5	395	203	3.4			
	8033	Minturki X Beloglina Buffum 17	3.0	3.0	7.5	4.5	4.0	2.0	309	203	3.4			
	8034	Minhardi X Minturki	7.5	2.5	6.5	3.5	8.0	3.0	469	192	3.2			
	8028	Turkey X Minessa	6.5	2.5	7.5	3.5	5.5	2.5	416	181	3.0			
	8031	Kanred X Minhardi	5.5	2.5	3.5	2.5	3.0	2.0	256	149	2.5			
	8030	Kanred X Buffum 17	3.5	1.5	6.0	3.0	3.5	1.5	277	128	2.1			

Havre, Montana.

C. I. FORM No. 66.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Lincoln, Neb.

DATE OF SEEDING

Oct. 1, 1930

DATE OF EMERGENCE

*not recorded, but
Oct. 7 assumed*

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				Leaf	Stem		GRAIN	plot yield	STRAW	Test weight per bushel	Protein content	U. S. grade
<i>Kaureg</i>	<i>5146</i>					Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
												<i>51.3</i>	<i>119.3</i>				
												<i>46.1</i>	<i>107.3</i>				
												<i>42.6</i>	<i>99.1</i>				<i>X</i>
												<i>46.7</i>	<i>108.6</i>		<i>57.2</i>		
<i>Cheyenne</i>	<i>ave 8885</i>	<i>5/31.3</i>	<i>6/27</i>	<i>263</i>	<i>27</i>			<i>42</i>				<i>57.2</i>	<i>133.1</i>				
												<i>44.8</i>	<i>104.1</i>				<i>X</i>
												<i>44.5</i>	<i>103.6</i>				
<i>Oro</i>	<i>ave 8220</i>	<i>6/1.3</i>	<i>6/27.3</i>	<i>263</i>	<i>26</i>			<i>42</i>				<i>48.8</i>	<i>113.6</i>		<i>58.0</i>		
												<i>52.9</i>	<i>123.0</i>				
												<i>44.5</i>	<i>103.5</i>				<i>X</i>
												<i>37.4</i>	<i>86.9</i>				
<i>Minturki</i>	<i>ave 6155</i>	<i>6/1.3</i>	<i>6/27.3</i>	<i>263</i>	<i>26</i>			<i>40</i>				<i>44.9</i>	<i>104.5</i>		<i>58.8</i>		
												<i>47.7</i>	<i>111.0</i>				
												<i>40.4</i>	<i>94.0</i>				
												<i>36.3</i>	<i>84.4</i>				<i>X</i>
	<i>ave</i>	<i>6/2.7</i>	<i>6/27.7</i>	<i>264</i>	<i>25</i>		<i>100%</i>	<i>44</i>				<i>41.5</i>	<i>96.5</i>		<i>57.3</i>		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Lincoln, Neb.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

Oct. 1, 1930

DATE OF EMERGENCE

✓ Oct. 7

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	<i>Plot yield</i>	STRAW	Test weight per bushel	Protein content	U. S. grade
<i>Nelr. 60 (ck)</i>	<i>6250</i>					Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
												<i>51.0</i>	<i>118.5</i>				
												<i>45.0</i>	<i>104.6</i>				
												<i>36.8</i>	<i>85.5</i>				<i>X</i>
	<i>Ave</i>	<i>6/2.7</i>	<i>6/28</i>	<i>26.4</i>	<i>25</i>			<i>42</i>				<i>44.3</i>	<i>102.9</i>		<i>58.8</i>		
<i>Tennmarq</i>	<i>6936</i>											<i>57.1</i>	<i>132.8</i>				
												<i>47.3</i>	<i>109.9</i>				<i>X</i>
												<i>43.1</i>	<i>100.2</i>				
	<i>Ave</i>	<i>5/27.7</i>	<i>6/26</i>	<i>26.2</i>	<i>29</i>			<i>41</i>				<i>49.2</i>	<i>114.3</i>		<i>58.2</i>		
<i>Kharkof</i>	<i>1442</i>											<i>52.6</i>	<i>122.3</i>				
												<i>45.5</i>	<i>105.7</i>				<i>X</i>
							<i>100%</i>					<i>39.1</i>	<i>91.0</i>				
	<i>Ave</i>	<i>6/1.7</i>	<i>6/27</i>	<i>26.3</i>	<i>25</i>			<i>41</i>				<i>45.7</i>	<i>106.3</i>		<i>57.5</i>		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

Lincoln, Nebr.

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

Oct. 2, 1930

DATE OF EMERGENCE

✓ Oct. 7

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN ^{plot yield}	STRAW		Test weight per bushel	Protein content	U. S. grade
<i>Kharkov sel.</i>	<i>6686</i>					Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds			
												<i>52.8</i>	<i>122.9</i>				
												<i>42.6</i>	<i>99.1</i>				<i>X</i>
												<i>40.6</i>	<i>94.5</i>				
	<i>Ave</i>	<i>6/1.7</i>	<i>6/26.7</i>	<i>26.3</i>	<i>25</i>			<i>40</i>				<i>45.3</i>	<i>105.5</i>		<i>58.0</i>		
<i>Blackhull</i>	<i>6251</i>											<i>55.4</i>	<i>128.9</i>				<i>X</i>
												<i>44.0</i>	<i>102.3</i>				
												<i>36.2</i>	<i>84.1</i>				
	<i>Ave</i>	<i>5/27.3</i>	<i>6/26.7</i>	<i>26.3</i>	<i>29</i>			<i>41</i>				<i>45.2</i>	<i>105.1</i>		<i>59.8</i>		
<i>Nebr. 60 (ck)</i>	<i>6250</i>						<i>100%</i>					<i>54.1</i>	<i>125.6</i>				<i>X</i>
												<i>40.2</i>	<i>93.6</i>				
												<i>37.2</i>	<i>86.5</i>				
	<i>Ave</i>	<i>6/2.7</i>	<i>6/27.3</i>	<i>26.3</i>	<i>25</i>			<i>41</i>				<i>43.8</i>	<i>101.9</i>		<i>58.7</i>		
<i>Kaw. x Prelude *</i>	<i>8886</i>											<i>52.9</i>	<i>123.0</i>				<i>X</i>
												<i>39.1</i>	<i>91.0</i>				
												<i>39.4</i>	<i>91.6</i>				
	<i>Ave</i>	<i>5/29.7</i>	<i>6/26.3</i>	<i>24.9</i>	<i>28</i>			<i>41</i>				<i>43.8</i>	<i>101.9</i>		<i>60.0</i>		

** Seeded Oct. 13, 1930.*

GENERAL SUMMARIZATION OF THE
CROP GROWING SEASON AT LINCOLN - 1930-31.

The only marked abnormality in the winter wheat growing season at Lincoln during the year 1930-31 was an excessive heat wave late in June, which prematurely ripened all but the very earliest varieties and produced an extreme bunch^{ing} of the varieties concerned in this report under the column, "Date ripe."

Date of emergence is not recorded in the records at this station, as indicated in the papers which accompany this report. Notes on stand, rust and lodging were ^{not} taken. It is known that some lodging occurred and should have been noted but that cannot be remedied at this time.

In listing the yield in pounds, I overlooked the fact that this should be pounds per acre, and recorded the actual plat yield in pounds as it occurs in our record book.

The plats at Lincoln were .038 acres in size and were replicated three times.

Attention is also called to the fact that the variety, Kanred x Prelude did not give a satisfactory stand from the first and original seeding and was consequently disked out and re-seeded October 13. This fact should especially be considered in comparisons involving the number of days from emergence to maturity.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Winter Wheat at Waseca, Minn. 1930-31. *1/40 acre plots.*

DATE OF SEEDING **Sept. 11, 1930**

DATE OF EMERGENCE **Sept. 19, 1930**

VARIETY	C. I. No.	✓ DATES ✓		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Minturki	Minn. 1507	6-14	7-13	297	29	Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
							90	45	40	5	0	36.6					
												41.2					X
												42.4					
												40.1			60.8		
Minard	2199	6-18	7-15	299	27		90	43	40	37	0	29.5					
												31.7					X
												32.9					
												31.4			57.9		
Minhardi x Minturki 8215	2312	6-14	7-14	298	30		95	46	30	5	0	35.9					
												36.4					X
												37.2					
												36.5			60.6		
Minard x Minhardi 8888	2313	6-14	7-13	297	29		97	41	35	7	0	35.8					
												36.5					
												33.5					X
												35.3			62.4		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

2

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	Minn. Ext No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG- ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer- gence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
Minard x Minhardi	8889 2314	6-13	7-14	297	31	Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
							99	43	40	7	0	40.4					
												40.8					
												35.7					
												39.0			61.3		
Kanred	2191	6-14	7-14	298	30		77	41	30	5	30	35.3					
											Deg. 35	34.7					
												32.3					
												34.1			59.9		
Kharkof	C.I. 1442	6-14	7-14	298	30		82	43	30	15	0	34.3					
% Lodging												36.3					
33												38.0					
												36.2			61.1		
Nebraska No. 60	6250	6-14	7-13	298	29		92	43	30	15	33	35.3					
											Deg. 15	39.2					
												34.8					
												36.4			60.5		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

3

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	STRAW	Test weight per bushel	Protein content	U. S. grade	
Minhardi x Minturki	Minn. 2320	6-16	7-15	300	29	Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
							97	47	30	33	0	31.5					X
												35.9					
												33.3					
												33.6			60.6		
Minturki x Bel.-Buff	C.I. 8033	6-15	7-14	299	29		97	43	40	7	33	35.5					X
											Deg. 10	41.2					
												35.3					
												37.3			60.8		
Karmont	C.I. 6700	6-15	7-13	299	28		80	39	20	20	50	32.0					X
											Deg. 13	40.4					
												29.3					
												33.9			60.1		
Newturk	C.I. 6935	6-14	7-14	298	30		83	41	40	15	53	33.3					X
											Deg. 14	36.8					
												32.9					
												34.3			59.9		

Winter Wheat Plots Grown at Waseca, Minn. in 1930-31

The winter wheat varieties were planted at Waseca on September 19, 1930 under ideal conditions. The land was in excellent shape and contained sufficient moisture for the seed to germinate.

Climatic conditions during the winter were less severe than usual. There was only a small amount of winter-killing. Frequent rains in the spring allowed the plants to make a vigorous growth. The writer visited the Waseca Station on July 3, 1931 and noted a good epidemic of leaf rust developing on the varieties. A trip was made to Waseca later to take both the stem and leaf rust notes. Although the winter temperatures were less severe than normal, the more hardy varieties looked better at harvest time. This was probably due to their better stands.

Individual Plot Yields
Sheldon Field Station
1931

Varieties of Winter Wheat

NUMBER.	C. I.	VARIETY.	Series					Planting order 1931			
			I	II	III	Total	Ave	I	II	III	N
5146		Karned	9.3	13.3	6.0	18.6	9.5	Grand 6 8715	Grand 5 Montana	Grand 4 Karned	Grand 3 Montana
1442		Tharlap	10.0	12.7	4.0	26.7	8.9	8034	8715	Montana	Montana
		Montana	6.0	6.7	1.3	14.0	4.7	8033	8889	Montana	Montana
6700		Karned	6.7	8.0	4.7	19.4	6.5	Hay 2	Turkey	Karned	Karned
1571		Turkey	4.7	8.0	8.0	20.7	6.9	Mont 36	Karned	8715	8715
		8889	6.0	5.3	6.0	17.3	5.8	Grand 5	Grand 4	Grand 3	Grand 2
		Nebraska No 60	3.3	6.7	9.3	19.3	6.4	Montana	Montana	8034	8034
6935		Nebraska	2.7	6.0	10.7	19.4	6.5	8715	Montana	8033	8033
5549		Montana No 36	4.7	10.0	19.3	34.0	11.3	8889	Karned	Hay 2	Hay 2
1186		Karned No 2	5.3	12.7	15.3	33.3	11.1	Turkey	8715	Montana	Montana
8033		Montana	4.0	9.3	10.0	23.3	7.8	Grand 4	Grand 3	Grand 2	Grand 1
8034		Montana	2.0	9.3	7.3	18.6	6.2	Karned	8034	Montana	Montana
		8215	4.0	10.0	4.0	18.0	6.0	Montana	8033	8715	8715
		Montana	4.0	7.3	6.0	20.6	6.9	Karned	Hay 2	Hay 2	Hay 2
		Montana	5.3	4.7	14.7	24.7	8.2	Karned	Mont 36	Turkey	Turkey
		Montana	4.0	12.7	6.7	23.4	7.8	Karned	Grand 3	Grand 2	Grand 1

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Sheridan, N.Y.
1931

DATE OF SEEDING

9/16/30

DATE OF EMERGENCE

10/13/30

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Kanred	5146	6/16-7/1	7/20-22			75		25			(3)	9.5	573	1227	55		✓
Kharkov	1442	6/16-18	7/20-22			80		25			(4)	8.9	533	1067	53		✓
Minturki		6/24-7/2	7/22-24			72		24			(13)	4.7	780	653	54		✓
Karmont	6700	6/30-7/2	7/19-21			72		24			(9)	6.5	387	1080	55		✓
Purkey	1571	6/29-30	7/16-18			77		24			(6)	6.9	413	1053	55		✓
8889	8889	6/29-7/1	7/20-24			70		24			(12)	5.8	347	1187	55		✓
Nebraska #60		6/30-7/1	7/18-24			77		24			(9)	6.4	387	1480	56		✓
Newturk	6935	6/22-25	7/16-24			67		23			(8)	6.5	387	813	54		✓
Montana #36	5549	6/28-30	7/16-25			77		25			(1)	11.3	680	1453	54		✓
Hayes #2	6686	6/28-30	7/19-24			77		25			(2)	11.1	667	1133	55		✓
Minturki x Poliglina Buffum	8033	6/29-7/1	7/23-25			72		24			(5)	7.8	467	1560	55		✓
Minturki x Minturki	8034	6/29-30	7/23-24			70		25			(10)	6.2	373	760	55		✓
	8215	6/30-7/1	7/22-25			68		23			(11)	6.0	360	1040	55		✓
Land in Fallow 1931																	
Variation in dates of heading and ripening is between different plots																	

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

9/24/30

DATE OF EMERGENCE

10/2/30

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW	Test weight per bushel	Protein content	U. S. grade	
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Minturki A						100	30		0	0	0	7.5			53		
" B		6/15	7/16			100	40	32	0	0	0	15.0			53		X
" C						100	50		0	0	0	10.0			46		
Average							40					10.8			50.7		
Kharkov A	1442					100	25		0	0	0	7.0			55		
B		6/14	7/16			100	35	32	0	0	0	17.9			54		X
C						100	60		0	0	0	15.8			51		
Average							40					13.6			53.3		
Kanred A	5146					100	25		0	0	0	9.1			52		
B		6/15	7/16			100	40	32	0	0	0	13.3			54		
C						100	40		0	0	0	18.7			51		X
Average							35					13.7			52.3		
Nels. No. 60 A	6250					100	30		0	0	0	15.8			53		
B		6/15	7/16			100	40	32	0	0	0	18.3			54		
C						100	60		0	0	0	17.1			51		X
Average							43.3					17.1			52.7		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Minhardt x Minturk	A 8034					100	50		0	0	0	12.9			52		X
	B	6/15	7/16			100	60	36	0	0	0	25.8			55		
	C					100	75		0	0	0	17.5			50		
Average							61.6					18.7			52.3		
Newturk	A 6935					100	40		0	0	0	15.8			50		X
	B	6/15	7/16			100	45	30	0	0	0	17.9			55		
	C					100	70		0	0	0	16.7			51		
Average							57.6					16.8			52.0		
Karmont	A 6700					100	35		0	0	0	13.8			52		X
	B	6/16	7/16			100	25	30	0	0	0	13.8			57		
	C					100	40		0	0	0	14.2			50		
Average							33.3					13.9			53.0		
Minhardt x Minturk	A 8215					100	75		0	0	0	13.8			49		X
	B					100	80	34	0	0	0	22.9			57		
	C	6/14	7/16			100	85		0	0	0	17.5			50		
Average							80					18.1			52.0		

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

CEREAL CROPS AND DISEASES

REPLY TO:

Redfield, S. D., Oct. 28, 1931

Dr. K. S. Quisenberry,
Washington, D. C.

Dear Dr. Quisenberry:

I am inclosing herewith the data on the winter wheat varieties grown in field plots on the Redfield station this year. There is considerable variation in yields of the replications due to soil variation and differences in winter survival. It is noteworthy that in most cases the plots with high winter survivals gave relatively high yields but low bushel weights. This was probably the result of earlier depletion of soil moisture where the stands were heavy. It is quite probable that the soil on the fallow series (Series B) is naturally more productive than that on either of the corn ground series.

Very truly yours,

E. S. McFadden

E. S. McFadden,
Associate Agronomist.



UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING _____

DATE OF EMERGENCE _____

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Minard x Minardi A	8889	6/15	7/16			100	80		0	0	0	15.8			56		X
B						100	75	30	0	0	0	28.3			58		
C						100	80		0	0	0	19.6			50		
Average							78.3					21.2			52.7		
Min. Bel - Buff. A	8033	6/16	7/16			100	75		0	0	0	12.9			50		X
B						100	70	30	0	0	0	24.2			56		
C						100	90		0	0	0	20.8			51		
Average							78.3					19.3			52.3		

A = corn ground
B = Fallow
C = Corn ground

1931 Data on fallow Plats.
Akron, 1931

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

3

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Average Data recorded on winter wheat varieties grown in fiftieth-acre plots,
ave. of 2 plots on fallow

DATE OF SEEDING September 18, 1930

DATE OF EMERGENCE October 1, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		Grain	Straw	Pounds	Test weight per bushel	Protein content	U. S. grade
Rosen Rye	195	6-3	7-7	280	34	100	100	32	—	0	0	9.6	540	1953	46.5	—	
Early Blackhull	8856	6-7	7-2	275	25	88	100	24	—	0	0	12.3	738	1490	57.3	—	
Blackhull	6251	6-8	7-4	277	26	85	100	24	—	0	0	16.2	970	1973	57.3	—	
Prelude x Kanred	8886	6-8	7-2	275	24	88	100	24	—	0	0	14.9	895	1828	55.5	—	
Tenmar q	6936	6-10	7-6	279	26	88	100	23	—	0	0	14.7	883	1880	53.8	—	
Kanred	5146	6-13	7-7	280	24	88	100	22	—	0	0	14.8	888	1883	55.5	—	
Kanred sel. 0166	10099	6-13	7-7	280	24	88	100	21	—	0	0	15.8	945	1950	55.0	—	
Kansas 441	10008	6-13	7-7	280	24	88	100	24	—	0	0	15.3	915	1735	55.3	—	
Turkey Sel. 159	10100	6-10	7-6	279	26	88	100	23	—	0	0	17.2	1033	2005	54.5	—	
Oro	8220	6-13	7-8	281	25	88	100	21	—	0	0	15.4	925	1850	56.3	—	
Nebraska No. 6	6249	6-13	7-8	281	25	85	100	21	—	0	0	16.2	970	1918	55.8	—	
Pesterboden sel. 1564-2-11	8266	6-13	7-8	281	25	90	100	22	—	0	0	15.8	945	1783	56.5	—	
Nebraska No. 60	6250	6-15	7-10	283	25	90	100	21	—	0	0	13.9	833	1655	56.3	—	
Cheyenne	8885	6-13	7-8	281	25	90	100	20	—	0	0	17.2	1033	1810	57.5	—	
Newturk	6935	6-13	7-8	281	25	90	100	21	—	0	0	15.1	908	1705	55.3	—	
KharKof	1583	6-15	7-8	281	23	88	100	22	—	0	0	16.2	970	1885	56.3	—	
KharKof, Hays No. 2	6686	6-15	7-8	281	23	90	100	23	—	0	0	16.3	975	1908	55.8	—	

Data on Cornland plots.

Akron, 1931

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Average Data recorded on winter wheat varieties grown in fiftieth-acre plots.
Average of 2 plots on Cornland

DATE OF SEEDING September 18, 1930

DATE OF EMERGENCE November 1, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		Fall STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		GRAIN		STRAW	Test weight per bushel	Protein content	U. S. grade
Rosen Rye	195	6-9	7-8	250	29	75	85	27	—	0	0	Bushels	Pounds	Pounds	Pounds	Per ct.	
Early Blackhull	8856	6-11	7-11	253	30	75	75	18	—	0	0	2.5	150	200	57.0	—	✓
Blackhull	6251	6-13	7-9	251	26	65	80	20	—	0	0	4.1	245	355	57.5	—	✓
Prelude x Kanred	8886	6-12	7-7	249	25	70	90	18	—	0	0	2.1	125	330	56.0	—	✓
Ten marg	6936	6-13	7-10	252	27	70	90	19	—	0	0	3.8	225	310	54.3	—	✓
Kanred	5146	6-14	7-10	252	26	70	90	18	—	0	0	2.8	165	218	55.3	—	✓
Kanred, sel. 0166	10099	6-14	7-9	251	25	65	95	18	—	0	0	3.1	183	203	55.8	—	✓
Kansas No. 441	10008	6-15	7-11	253	26	65	95	20	—	0	0	3.9	233	333	56.0	—	✓
Turkey Sel. 159	10100	6-14	7-10	252	26	65	95	19	—	0	0	3.9	233	318	55.8	—	✓
Oro	8220	6-15	7-10	252	25	62	98	18	—	0	0	4.2	250	380	57.3	—	✓
Nebraska No. 6	6249	6-15	7-10	252	25	65	95	19	—	0	0	5.4	320	383	57.0	—	✓
Pesterboden sel. 1564-2-11	8266	6-15	7-10	252	25	65	95	19	—	0	0	4.9	295	405	57.0	—	✓
Nebraska No. 60	6250	6-16	7-10	252	24	65	95	18	—	0	0	5.0	295	355	57.5	—	✓
Cheyenne	8885	6-15	7-9	251	24	67	93	17	—	0	0	3.4	203	285	57.0	—	✓
New turk	6935	6-15	7-8	250	23	62	98	18	—	0	0	3.6	213	305	55.8	—	✓
Kharkof.	1583	6-16	7-9	251	23	60	100	17	—	0	0	4.4	263	375	57.3	—	✓
Kharkof, Hays No. 2	6686	6-15	7-8	250	23	62	98	18	—	0	0	5.0	300	428	57.0	—	✓

Data on Fallow plots.
Akron, 1931.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

4

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

Average data recorded on winter wheat varieties grown in fiftieth-acre plots. Ave. of 2 plots on fallow.

DATE OF SEEDING September 18, 1930

DATE OF EMERGENCE October 1, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODG-ING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emer-gence	Heading				Leaf	Stem		GRAIN	STRAW		Test weight per bushel	Protein content	U. S. grade
Kharkof ^{la}	1442	6-15	7-9	282	24	80	100	24	—	0	0	15.8	945	1893	56.5	—	
Minturki x Beloglina-Buffum ^{la}	8033	6-13	7-8	281	25	90	100	24	—	0	0	17.1	1028	2253	54.8	—	
Minturki x Minhardi ^{la}	8034	6-18	7-11	284	23	85	100	25	—	0	0	13.9	835	2175	56.0	—	
Minturki ^{la}	6155	6-20	7-11	284	21	60	100	26	—	0	0	10.8	650	1638	55.8	—	
Colorado Mutant 556 ^k		6-14	7-8	281	24	88	100	22	—	0	0	12.8	765	1715	54.5	—	
Alton ^{la}	1438	6-15	7-10	283	25	88	100	23	—	0	0	15.4	925	1825	57.0	—	

^{la} grown in hundredth acre plots in first replication.

Data on cornland plots.
Akron, 1931

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

2

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING September 18, 1930

DATE OF EMERGENCE November 1, 1930

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		FALL STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw	Test weight per bushel	Protein content	U. S. grade	
Kharkof <u>la</u>	1442	6-16	7-11	253	25	40	100	19	-	0	0	2.6	158	260	56.8	-	✓
Minturki x Belogline-Bk Hum <u>la</u>	8033	6-15	7-9	251	24	52	98	18	-	0	0	2.3	135	195	56.0	-	✓
Minturki x Minhard <u>la</u>	8034	6-20	7-11	253	21	50	100	19	-	0	0	4.3	253	508	56.3	-	✓
Minturki <u>la</u>	6155	6-22	7-14	256	22	15	100	20	-	0	0	1.3	75	195	55.0	-	
Colorado Mutant 556 <u>la</u>		6-16	7-12	254	26	45	95	18	-	0	0	2.3	138	273	55.0	-	✓
Alton <u>la</u>	1438	6-16	7-11	253	25	50	95	18	-	0	0	3.8	225	288	56.3	-	✓
<u>la</u> . grown in hundredth acre plots in first replication.																	

la. grown in hundredth acre plots in first replication.

UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY

AGRONOMIC AND QUALITY DATA

Data obtained by the Division of Cereal Crops and Diseases in cooperation with the State Agricultural Experiment Station

DATE OF SEEDING

9/30 to 10/2

1930 Ames Iowa

DATE OF EMERGENCE

week after sowing

VARIETY	C. I. No.	DATES		DAYS TO MATURITY FROM		STAND	WINTER SURVIVAL	HEIGHT	RUST		LODGING	ACRE YIELD			GRAIN QUALITY		
		First Headed	Ripe	Emergence	Heading				Leaf	Stem		Grain	Straw		Test weight per bushel	Protein content	U. S. grade
						Per ct.	Per ct.	Inches	Per ct.	Per ct.	Per ct.	Bushels	Pounds	Pounds	Pounds	Per ct.	
Kanred	5146	6/10 6/10	7/15 7/15			—	—	42 36	—	—	0	37.8	2248	2932	56.0 55.0		
Nebr 60	6250	6/10 6/10	7/15 7/15			—	—	40 39	—	—	0	37.7	2260	2940	56.0 56.0		
Minturki	6155	6/7 6/8	7/7 7/7			—	—	46 42	—	—	0	35.7	2440	3460	56.0 56.0		
Kawvale		4/4 4/4	7/15 7/15			—	—	44 37	—	—	0	40.6	2435	2465	55 55		
Towin		4/4 4/4	7/15 7/15			—	—	44 38	—	—	0	41.0	2458	3142	57 58		

