

Allis-Chalmers Milling Data-base (531 cultivars grown in crop years 1975 - 2000)

Milling quality is a very strong genetic trait. Milling Score consists of straight-grade flour yield, endosperm separation index (E.S.I.), and friability. Data represents Allis-Chalmers millings of shrivel-free grain from various locations and/or crop years (1975 - 2000). Every effort has been adopted to insure that milling-quality data is representative of the cultivar. However, there is a measure of uncertainty in data representing a cultivar with one milling only.

Historic cultivars dating to 1808 were acquired through the National Small Grains Collection, and grown with contemporary cultivars. Characteristics of the historic cultivars were compared with recorded plant descriptions; thus, there is a high level of confidence concerning the identity of the historic varieties.

Wheats That Are "Genetically" High in Test Weight

RANK	VARIETY	CLASS	LOC. OF RELEASE	YEAR OF RELEASE	N	TEST WT.	TKW	MILL SCORE	ST. GR.	ESI	FRIAB	FL ASH	AWRC	BR. FL.	COOK DIAM.	FL. PROT	WH PROT	PROT QLTY
1	Century II	SRW	?	1997?	1	65.1	44.8	69.8	77.5	9.2	28.4	0.37	56.6	31.3	17.3	8.4	9.9	1
1	Wisconsin No.2	HRW	WI	1918	1	65.1	33.8	87.1	79.4	7.2	29.8	0.38	56.5	24.7	16.6	10.4	11.9	
3	Coker 47-27 (nat'l colle	SRW	SC	1950	1	64.7	37.4	56.3	76.3	10.8	27.0	0.38	52.6	30.3	17.3	9.6	11.1	
3	Seabreeze	SRW	TX	1945	1	64.7	31.7	38.9	74.0	13.5	26.6	0.40	53.5	28.9	16.6	9.9	11.4	
5	Canawa	SRW	WV	1936	1	64.5	34.1	64.0	77.3	10.2	27.7	0.41	51.2	29.8	17.6	9.7	11.2	
5	Kay	SRW	OK/KS	?	1	64.5	32.4	56.7	76.8	11.3	27.0	0.43	52.5	30.7	16.9	11.1	12.6	
5	Patriot 180	SRW	?	199?	1	64.5	32.1	70.7	77.7	10.2	29.3	0.42	52.0	34.7	17.2	9.5	11.0	
8	Enigma	SRW	PA	1958	1	64.4	40.0	61.2	76.9	10.9	27.9	0.45	52.2	28.3	17.1	11.1	12.6	2
8	Roane	SRW	VA	1999	8	64.4	32.6	42.9	74.6	12.5	26.3	0.36	59.3	30.4	16.9	8.3	9.8	3
10	Kan Queen	SRW	KS	1949	2	64.3	42.1	25.7	74.6	15.6	23.7	0.50	54.4	33.0	16.8	11.9	13.4	1
10	Succession (Hyttest)	SRW	?	199?	1	64.3	32.5	72.2	77.3	9.5	29.6	0.43	51.0	27.9	17.2	7.9	9.4	
12	Kruse	SRW	MT	1922	1	64.2	32.6	44.9	74.6	12.5	26.9	0.42	55.5	28.0	16.8	10.1	11.6	2
12	Moking	SRW	KS/MO	1946	3	64.2	38.0	61.2	76.8	10.4	27.6	0.40	54.9	29.4	17.1	11.1	12.6	2
14	FFR-566W	SRW	VA?	1998?	1	64.1	44.8	91.5	79.4	6.9	30.9	0.38	51.0	26.6	17.4	9.5	11.0	
15	USG 3408	SRW	VA	1998?	4	64.0	40.1	57.2	76.0	10.7	27.6	0.35	55.3	30.1	17.1	9.4	10.9	
15	Hoffman 89	SRW	OH	1994?	5	64.0	32.3	73.1	77.6	9.4	29.5	0.40	51.9	26.0	17.0	10.5	12.0	3
15	Quantum 7123	SRW	IN?	1998?	1	64.0	41.7	67.3	77.5	10.1	28.4	0.40	54.8	30.8	17.5	8.1	9.6	
15	TS 4020 (Thompson)	SRW	OH	199?	1	64.0	32.6	72.5	77.3	9.4	29.6	0.42	50.5	28.3	17.5	7.9	9.4	
19	Pioneer 26R61	SRW	IN	1999?	2	63.9	52.5	69.3	77.5	9.6	28.7	0.45	53.4	30.3	17.6	9.3	10.8	7
20	CM 558 (Country Mark)	SRW	IN	199?	1	63.8	40.5	60.8	77.2	10.5	27.1	0.46	53.0	31.7	17.7	8.2	9.7	

RANK	VARIETY	CLASS	LOC. OF RELEASE	YEAR OF RELEASE	N	TEST WT.	TKW	MILL SCORE	ST. GR.	ESI	FRIAB	FL ASH	AWRC	BR. FL.	COOK DIAM.	FL. PROT	WH PROT	PROT QLTY
21	Atlantis (Maumee Valle	SRW	IN	199?	1	63.7	35.1	68.0	77.4	9.7	28.4	0.39	51.6	30.2	17.6	8.8	10.3	4
21	Harvest Queen	SRW	KS	1897	1	63.7	35.0	68.6	77.6	9.9	28.5	0.42	53.7	26.8	16.7	11.6	13.1	3
23	Rochester Red	SRW	TN?	ca 1891	2	63.6	39.6	54.8	76.0	10.8	26.9	0.41	51.6	30.1	17.6	10.5	12.0	
24	AGS 2000	SRW	GA	2000?	3	63.5	49.2	84.3	78.8	7.8	30.2	0.39	54.9	30.9	17.9	9.2	10.7	4
24	Featherstone 520	SRW	VA?	1996?	6	63.5	41.2	68.3	77.1	9.9	28.9	0.41	52.9	33.1	17.8	8.6	10.1	2
24	Andnox	SRW	SC	1966	1	63.5	42.2	66.3	77.5	10.0	28.0	0.41	52.8	32.4	17.1	10.2	11.7	
24	Benhur	SRW	IN	1966	1	63.5	35.8	47.2	76.1	11.9	25.4	0.42	50.2	31.9	17.9	10.4	11.9	
24	Podach (Steyer Seeds)	SRW	OH?	1994?	4	63.5	31.8	74.8	77.7	9.0	29.6	0.42	52.4	26.8	17.1	9.5	11.0	3
24	Pioneer 25R44	SRW	IN	2000?	2	63.5	39.3	62.3	76.1	10.2	28.6	0.41	56.6	34.2	17.7	8.3	9.8	3
24	Pioneer 25R49	SRW	IN	2000?	2	63.5	42.5	75.2	77.7	9.2	29.8	0.38	53.7	32.7	18.1	7.9	9.4	1
31	90W (Agritech)	SRW	IN	199?	1	63.4	32.1	68.6	77.0	9.8	29.1	0.42	51.4	24.6	16.8	10.7	12.2	
31	FFR-522	SRW	GA?	1999?	3	63.4	38.3	64.3	76.9	10.2	28.2	0.40	53.7	33.0	17.3	8.5	10.0	
33	Cayuga	SWW	NY	1996?	9	63.3	39.8	53.8	76.0	11.3	27.0	0.39	54.0	36.4	17.8	9.2	10.7	3
33	Hunter (Agripro)	SRW	SC	1979	7	63.3	36.1	64.6	76.5	10.3	28.8	0.40	50.1	31.4	17.7	9.7	11.2	4
33	USG 3209	SRW	GA?	1999?	2	63.3	47.8	52.9	76.4	11.6	26.6	0.43	57.2	27.1	17.1	8.1	9.6	
33	Walker	SRW	TN	1871	2	63.3	38.1	71.8	78.1	9.0	28.2	0.39	52.9	26.7	17.1	11.5	13.0	2
37	Illinois #2	SRW	IL	1932	1	63.2	33.2	76.5	77.7	9.2	30.2	0.40	54.2	32.0	17.7	10.0	11.5	8
37	Neuleib (Steyer Seeds)	SRW	OH?	1994?	1	63.2		69.1	77.2	9.3	28.6	0.40	52.4	34.4	17.5	9.2	10.7	5
37	Pioneer 25R38	SRW	IN	2000?	1	63.2	46.6	83.5	79.0	7.7	29.6	0.48	52.4	28.3	18.0	8.3	9.8	
37	Prairie	SRW	IL	1943	1	63.2	33.4	63.2	76.5	9.9	28.1	0.39	63.2	32.7	16.8	10.2	11.7	3
37	Purdue No. 1	SRW	IN	1934	1	63.2	37.2	49.0	76.6	11.1	24.7	0.45	52.1	32.2	17.6	8.8	10.3	
37	Valley	SRW	OH	ca 1883	1	63.2	36.4	65.4	77.3	9.7	27.7	0.42	52.9	29.4	17.3	11.4	12.9	4
43	Emily	SRW	MI?	1998?	1	63.1	30.7	81.7	78.7	7.6	29.3	0.38	51.5	26.5	17.4	10.2	11.7	2
43	Kent	SRW	CAN	1957	2	63.1	38.6	61.9	76.9	10.3	27.6	0.44	55.0	28.7	17.1	11.1	12.6	2
43	Dyna Gro 246	SRW	MI?	1996?	2	63.1	32.6	78.7	78.2	8.5	29.7	0.40	50.5	27.7	16.7	10.3	11.8	3
43	Greeson	SWW	NC	1897	2	63.1	40.6	81.6	79.0	8.1	29.4	0.40	54.9	27.0	17.0	10.1	11.6	3
47	SR 204 (Terra)	SRW	IN / IA	1994?	3	63.0	32.3	72.8	77.5	9.2	29.3	0.41	51.3	28.4	17.3	8.8	10.3	6
47	Coker 9704	SRW	AR	1997?	5	63.0	36.5	59.4	76.0	10.7	28.2	0.38	53.9	33.2	17.6	9.1	10.6	5
47	Fundulea	SRW	CAN	199?	6	63.0	34.6	47.4	75.7	11.4	25.5	0.44	56.6	26.0	16.6	10.5	12.0	3

RANK	VARIETY	CLASS	LOC. OF RELEASE	YEAR OF RELEASE	N	TEST WT.	TKW	MILL SCORE	ST. GR.	ESI	FRIAB	FL ASH	AWRC	BR. FL.	COOK DIAM.	FL. PROT	WH PROT	PROT QLTY
47	Arise W33	SRW	IL	1995?	1	63.0	33.2	90.6	79.0	6.9	31.0	0.42	52.0	26.4	16.7	9.2	10.7	4
47	Atlas 50	SRW	NC	1948	1	63.0	37.5	48.5	75.5	11.7	26.3	0.41	53.2	30.5	17.2	11.6	13.1	
47	Beck 109	SRW	IN?	1992?	4	63.0	33.2	72.0	77.3	9.6	29.6	0.41	52.8	27.6	17.3	8.6	10.1	5
47	Clarkan	SRW	KS	1934	2	63.0	38.9	25.5	74.2	14.7	23.4	0.46	54.2	30.2	16.7	12.1	13.6	1
47	Coker 61-19	SRW	SC	1960	1	63.0	37.0	70.1	77.1	9.4	29.1	0.42	52.3	32.2	17.4	10.0	11.5	3
47	Harold (NC)(Thompson)	SRW	CAN	1998?	1	63.0	35.3	59.9	77.0	9.6	26.3	0.38	53.6	32.0	17.2	10.0	11.5	3
47	Hartzler 2400	SRW	MO	1986	1	63.0		71.3	77.0	9.9	30.0	0.38	53.5	36.0	18.0	8.0	9.5	
47	Hoffman 57	SRW	VA?	1997?	1	63.0	40.3	58.5	76.2	10.8	27.8	0.35	54.9	25.1	17.0	7.8	9.3	
47	Pioneer 26R24	SRW	IN	1999?	5	63.0	40.1	63.8	76.8	10.0	28.1	0.40	55.5	32.3	17.3	9.5	11.0	6
47	RW 151 (Classic - Nosc)	SRW	OH	199?	2	63.0	32.0	73.6	77.6	9.5	29.7	0.42	50.8	28.5	17.1	8.9	10.4	
47	Tayland	SRW	MD	1954	1	63.0	38.3	67.3	77.4	10.1	28.5	0.40	52.3	32.4	16.9	10.2	11.7	
47	Wabash	SRW	IN/IL	1938	1	63.0	34.1	75.8	78.3	9.3	29.4	0.41	51.7	29.0	18.1	11.1	12.6	2
62	Taylor	SRW	MD	1953	4	62.9	35.5	56.6	76.0	10.8	27.4	0.37	54.1	32.6	17.4	10.6	12.1	
62	FFR-568W	SRW	IN	199?	1	62.9	38.9	60.6	76.6	10.6	27.8	0.41	52.4	31.1	17.7	9.6	11.1	3
62	Russian Red	SRW	NY	1888	2	62.9	43.8	49.2	76.0	11.7	25.9	0.42	54.4	29.9	16.6	9.8	11.3	2
62	Pioneer 2684	SRW	SC	199?	8	62.9	41.1	64.0	76.7	10.1	28.3	0.40	51.1	29.3	18.0	9.2	10.7	
62	Reed (AC)	SWS	CAN	?	3	62.9	36.0	64.4	77.5	9.4	26.9	0.39	50.7	26.3	17.7	9.5	11.0	
62	Pride of Genesee	SWW	NY	1893	2	62.9	41.2	43.6	74.8	12.0	25.9	0.38	54.4	28.0	17.1	9.7	11.2	3
68	Brandy	SRW	IN	1990?	4	62.8	30.3	63.3	77.1	10.6	28.2	0.40	53.9	24.5	17.3	9.6	11.1	3
68	China	SRW	CHINA	1845	1	62.8	38.5	53.6	75.3	11.5	27.9	0.40	52.7	32.8	17.1	9.2	10.7	3
68	Jackson	SRW	VA	1994?	14	62.8	36.4	55.3	75.5	10.8	27.6	0.39	54.1	32.9	17.4	9.3	10.8	3
68	RS 927 (RUPP SEEDS)	SRW	OH	199?	4	62.8	31.5	71.3	77.3	9.3	29.1	0.42	51.4	30.6	17.3	9.3	10.8	
68	SG 1545 (Shur Grow)	SRW	OH	1999?	2	62.8	32.7	72.7	77.5	8.8	29.0	0.37	55.4	24.5	17.0	8.6	10.1	3
73	Arise X17	SRW	IL	1995?	1	62.7	36.9	72.3	77.1	9.2	29.6	0.37	56.1	38.4	18.0	8.0	9.5	2
73	Rowland (Steyer Seeds)	SRW	OH	199?	1	62.7	38.8	58.2	76.5	10.5	27.1	0.42	49.5	32.8	18.6	8.3	9.8	
73	Talbot	SWW	CAN	1962	1	62.7	37.9	73.8	78.5	8.4	27.8	0.46	48.0	29.8	17.6	9.3	10.8	
73	G2500 (Goertzen)	SRW	KS?	1997?	3	62.7	36.2	52.8	75.4	11.3	27.4	0.37	54.2	32.8	17.0	10.2	11.7	
73	Coker 983	SRW	SC	1983	6	62.7	31.2	66.2	76.9	10.1	28.8	0.42	51.1	32.0	17.6	10.0	11.5	5
73	Pioneer 26R46	SRW	IN	1999?	2	62.7	48.3	93.8	79.6	7.0	31.5	0.39	50.5	30.5	18.5	8.2	9.7	7
79	GR 860 (Agra)	SRW	OH	1987	7	62.6	35.0	69.5	77.2	9.3	28.7	0.38	49.4	30.8	18.2	9.8	11.3	2
79	AT 91W (Agritech)	SRW	IN	2000?	1	62.6	35.7	60.7	76.3	10.5	28.1	0.35	59.4	29.5	17.6	9.4	10.9	4

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79	Cobra	SRW	?	199?	2	62.6	31.5	70.7	77.4	9.8	29.3	0.43	53.4	28.7	17.5	8.8	10.3	3
79	Early Premium	SRW	MO	1937	2	62.6	31.5	68.5	77.5	9.7	28.5	0.43	57.6	32.2	17.1	10.7	12.2	1
79	L 15 (Leader)	SRW	OH	199?	2	62.6	30.4	80.2	78.3	7.9	29.6	0.39	51.3	27.4	16.8	10.1	11.6	3
79	Prosperity	SRW	NY	1890	1	62.6	37.4	69.0	78.0	9.9	28.2	0.46	51.5	29.8	18.1	10.4	11.9	
79	White Wonder	SWW	WVA,NY	1919?	1	62.6	34.9	79.8	78.4	8.0	29.4	0.40	52.9	34.2	17.8	9.7	11.2	3
79	Pioneer 25R75	SRW	IN	2000?	2	62.6	36.9	60.7	75.9	10.1	28.2	0.37	51.8	33.0	17.9	8.9	10.4	2
87	Arbor	SRW	?	199?	1	62.5	36.2	69.6	77.4	9.6	28.8	0.39	53.0	34.5	18.5	8.8	10.3	3
87	Spencer (Hybritech)	SRW	KS	1993	2	62.5	32.5	32.0	74.0	13.6	24.6	0.43	57.7	29.2	16.9	10.4	11.9	
87	Chieftan	SRW	MI?	1996?	2	62.5	32.4	75.4	77.9	8.8	29.4	0.39	51.8	28.0	16.7	10.1	11.6	3
87	Diehl-Mediterranean	SRW	NY	1884	2	62.5	35.2	82.7	78.6	7.7	29.9	0.45	53.9	30.7	17.6	9.9	11.4	2
87	FFR-502W	SRW	VA?	1997?	2	62.5	38.9	57.1	76.1	11.3	27.9	0.39	54.6	31.8	17.6	8.9	10.4	
87	Saluda	SRW	VA	1983	18	62.5	33.2	58.7	75.9	10.6	28.0	0.38	53.3	33.5	17.4	9.5	11.0	3
93	Auburn	SRW	IN	1980	15	62.4	31.5	61.9	76.5	10.4	28.1	0.37	50.1	28.8	17.6	10.0	11.5	5
93	Purplestraw	SRW	?	1822	3	62.4	37.4	61.4	76.8	9.9	27.3	0.39	51.0	32.4	16.8	11.3	12.8	2
93	CM 568 (Country Mark)	SRW	IN	1999?	1	62.4	39.2	64.5	76.7	10.4	28.7	0.42	50.7	34.6	17.8	8.1	9.6	
93	MacKinnon (AC)	SWW	CAN	1999?	1	62.4	35.3	74.6	78.2	8.3	28.3	0.43	50.8	29.8	17.5	9.5	11.0	2
93	Shelby (Agripro)	SRW	AR?	1997?	5	62.4	41.5	63.6	77.0	10.4	28.1	0.39	54.1	29.9	17.3	9.1	10.6	6
93	Sisson	SRW	VA	2000?	3	62.4	41.0	68.8	77.3	9.7	28.7	0.38	55.4	31.1	17.3	8.4	9.9	2
93	Compton	SRW	IN	1984	13	62.4	35.0	46.1	75.4	12.7	26.5	0.40	52.3	27.7	17.2	9.8	11.3	7
93	Pioneer 2643	SRW	SC?	199?	8	62.4	33.8	60.2	76.1	10.9	28.5	0.40	52.5	31.9	17.6	9.4	10.9	7