

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.

## Cultivars With Fine Particle Size

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
Absolut	SRW	MI?	1998?	1	62.1	30.9	80.2	78.2	8.2	29.9	0.34	49.9	35.8	18.5	9.9	11.4	3
Beck 103	SRW	IN	1999?	1	58.4	30.3	66.7	77.2	9.2	27.8	0.40	50.4	38.8	18.0	8.6	10.1	4
Beck 107	SRW	IN	1999?	3	61.1	33.7	81.7	78.1	8.1	30.4	0.36	52.3	39.9	18.7	8.2	9.7	4
Becker	SRW	OH	198?	26	59.0	34.6	52.3	75.7	11.4	27.0	0.41	51.4	35.0	17.8	8.4	9.9	2
Blazer (Agripro)	SRW	IN	1985	5	60.3	34.2	44.4	75.0	12.7	26.5	0.38	55.5	35.9	17.8	10.2	11.7	3
Boone (Agripro)	SRW	IN?	199?	4	59.9	39.1	78.2	77.8	8.8	30.3	0.40	50.9	38.0	18.2	9.4	10.9	7
Caldwell	SRW	IN	1981	94	60.5	29.8	65.9	76.8	10.3	28.9	0.37	52.5	36.2	18.0	8.8	10.3	7
Casey	SRW	CAN	199?	3	60.6	35.7	68.5	77.6	10.0	28.5	0.41	52.9	36.8	17.5	9.1	10.6	6
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
Charmany	SRW	WI	1984	9	60.6	40.9	76.8	77.8	8.8	29.9	0.39	51.2	35.9	18.0	8.0	9.5	2
CM 539 (Country Mark)	SRW	IN	1998?	2	60.2	37.5	67.8	76.9	9.6	28.8	0.38	57.6	39.0	17.9	7.8	9.3	3
CM 577 (Country Mark)	SRW	IN	1999?	1	60.1	38.9	62.9	76.5	9.4	27.6	0.35	51.5	36.6	17.8	9.5	11.0	2
Coker 68-19	SRW	SC?	1970	1	59.6	30.8	69.1	76.9	9.6	29.2	0.34	55.2	38.7	18.4	8.7	10.2	5
Coker 762	SRW	SC	1980	6	58.7		58.0	75.6	11.6	28.9	0.38	51.6	36.8	17.7	9.0	10.5	2
Coker 9024	SRW	AR	1990	4	59.2	32.1	77.6	77.9	8.7	30.0	0.43	49.2	33.4	17.6	10.3	11.8	4
Coker 9025	SRW	AR	2000?	1	60.9	41.2	70.2	77.3	10.2	29.6	0.46	54.8	37.2	17.9	8.7	10.2	6
Coker 9835	SRW	AR	1990	14	61.1	36.0	64.8	76.6	10.3	28.9	0.40	54.9	37.8	18.0	8.1	9.6	2
Coker 9904	SRW	AR	1992?	3	60.6	40.4	64.5	77.0	10.7	28.6	0.46	51.1	36.5	17.6	9.4	10.9	3
Cyrus (Coomer)	SRW	IN	1998?	1	59.4	36.6	59.9	77.3	9.9	26.2	0.40	54.1	38.9	17.6	8.9	10.4	3
Dexter (AC)	SWW	CAN	1997?	4	58.1	43.0	62.6	76.5	10.6	28.5	0.44	51.9	38.9	17.8	8.0	9.5	2
Dyna Gro 422	SRW	MI?	1997?	1	62.1	46.9	76.2	77.5	8.8	30.0	0.37	53.0	33.6	17.3	7.7	9.2	
Dyna Gro 424	SRW	MI?	1997?	1	61.2	44.1	57.7	75.7	10.9	28.2	0.36	52.7	33.0	18.0	7.4	8.9	
Dynasty	SRW	OH	1987	14	61.4	33.9	59.4	76.2	11.0	28.3	0.41	52.6	35.5	17.7	9.2	10.7	2
Excel	SRW	OH	1990	14	59.5	31.1	57.7	76.1	11.2	28.0	0.41	52.0	37.4	17.8	9.1	10.6	2
FFR-525W	SRW	IN	199?	5	60.6	40.0	63.4	76.6	10.3	28.4	0.41	52.5	35.8	17.4	9.1	10.6	3

VARIETY	CLASS	LOC. OF	YEAR OF	N	TEST	TKW	MILL	ST.		FRIAB	FL	AWRC	BR.	COOK	FL.	WH	PROT
		RELEASE	RELEASE		WT.		SCORE	GR.	ESI		ASH		FL.	DIAM.	PROT	PROT	QLTY
G3566 (Goertzen)	SRW	KS	1997?	2	59.4	33.3	66.8	76.9	10.0	28.9	0.42	51.9	38.1	17.3	11.4	12.9	4
Garfield (Steyer Seeds)	SRW	OH	1999?	2	61.3	35.0	82.0	78.8	7.5	29.2	0.38	55.2	36.4	17.4	8.8	10.3	3
Geneva	SWW	NY	1983	24	61.5	36.9	74.0	77.7	9.1	29.4	0.39	52.1	34.9	18.0	8.9	10.4	2
Glacier	SRW	WI	1991	2	59.7	30.9	71.7	77.4	9.9	29.7	0.44	50.5	37.2	17.7	9.1	10.6	2
GR 942 (T814) (Trio)	SRW	OH	1994	7	60.8	37.2	49.3	75.7	12.1	26.7	0.41	55.9	38.8	17.9	7.6	9.1	
GR 983	SRW	OH	1998?	1	60.3	33.9	79.1	77.8	8.3	30.1	0.35	54.3	40.3	18.6	7.4	8.9	
G 3566 (Goertzen)	SRW	KS	1997?	2	59.4	33.3	66.8	76.9	10.0	28.9	0.42	51.9	38.1	17.3	11.4	12.9	4
Grandprize	SRW	NY	ca 1900	1	62.1	36.6	70.5	77.3	9.5	29.1	0.42	53.5	36.7	17.7	7.9	9.4	
Grant	SRW	IN	1993?	5	61.0	32.4	62.5	76.5	10.1	28.1	0.39	54.8	35.1	17.9	9.8	11.3	2
Hickory	SRW	AR	1994	9	61.5	31.8	67.4	76.8	9.8	29.0	0.39	53.5	36.5	18.1	8.9	10.4	8
Hoffman 14	SRW	PA?	1996?	3	61.4	39.6	52.9	75.8	11.5	27.1	0.40	56.4	37.8	17.4	8.3	9.8	
Hopewell	SRW	OH	199?	7	60.9	40.7	50.6	75.0	11.8	27.5	0.42	54.4	36.7	17.9	8.9	10.4	4
Houser	SWW	NY	1978	28	58.5	40.9	69.9	77.1	9.4	29.1	0.40	50.4	35.8	17.9	8.9	10.4	3
LG 1433 (LG Seeds)	SRW	OH?	1999?	1	60.6	34.3	83.4	78.3	8.0	30.6	0.34	54.4	40.0	18.7	7.4	8.9	
Magers (Steyer Seeds)	SRW	OH	1999?	1	60.3	33.5	79.1	77.9	8.3	30.0	0.35	53.7	40.1	18.8	7.4	8.9	
McNair 1003	SRW	NC	1977	19	57.0	37.8	38.5	75.0	13.6	25.5	0.40	56.1	38.8	17.7	9.7	11.2	3
Packard (Coomer)	SRW	IN	1999?	1	59.4	36.5	67.6	77.1	9.1	28.1	0.40	49.7	38.9	18.3	7.8	9.3	
Patriot 210	SRW	?	199?	2	61.1	32.0	59.7	76.1	10.9	28.3	0.40	53.2	32.3	17.3	10.0	11.5	
Patterson	SRW	IN	199?	11	60.0	31.9	67.0	76.8	10.0	29.0	0.39	52.3	36.5	17.9	8.8	10.3	5
Pike	SRW	MO	1980	10	61.8	34.9	53.5	75.8	11.8	27.6	0.40	53.3	36.5	17.8	8.9	10.4	3
Pioneer 2548	SRW	IN	1988	32	59.7	32.4	52.4	75.1	11.1	27.4	0.42	54.2	36.3	17.4	8.5	10.0	3
Pioneer 2555	SRW	IN	1986	14	60.9	41.4	77.3	77.7	8.9	30.3	0.39	51.4	36.7	18.2	8.8	10.3	7
Pioneer 2568	SRW	IN	199?	6	60.6	38.3	45.3	74.9	12.6	26.7	0.43	56.2	38.6	18.0	8.7	10.2	4
Pioneer 2691	SRW	SC	199?	3	62.1	37.8	57.9	76.2	11.2	28.0	0.41	54.5	33.8	17.4	8.8	10.3	
Purcell	SWW	NY	1979	9	60.4	38.5	57.5	76.1	10.6	27.5	0.41	51.2	34.0	17.7	8.8	10.3	2
Roy	SRW	NC	1979	8	57.6		74.0	77.3	9.3	30.0	0.38	51.3	37.3	17.8	10.0	11.5	3
RS 987 (Rupp Seeds)	SRW	OH	1999?	1	58.2	37.1	56.1	75.9	10.8	27.4	0.41	51.4	42.5	18.2	7.0	8.5	
RW 1517 (Classic - Nosco)	SRW	OH	1998?	2	60.9	33.4	76.6	77.7	8.2	29.4	0.35	53.0	38.0	18.5	8.2	9.7	
SR 211 (Terra)	SRW	IN	1999?	1	61.8	26.5	63.7	77.0	9.3	27.2	0.40	52.0	36.2	17.5	10.0	11.5	3
Stadler	SRW	MO	1964	3	60.5	34.4	47.7	75.5	12.4	26.6	0.39	56.0	34.1	17.7	10.0	11.5	3
Steyer 1809	SRW	OH?	1997?	3	59.1	36.1	80.2	78.3	8.3	29.9	0.37	54.0	37.5	18.3	8.3	9.8	2
Stoddard	SRW	MO	1973	3	59.2	40.1	42.0	75.4	13.2	25.8	0.40	53.9	36.6	17.8	10.0	11.5	3
T 71	SRW	?	199?	5	59.6	33.7	65.7	76.5	9.9	28.8	0.41	52.6	39.3	18.2	8.5	10.0	
Terral 101	SRW	AR	1994?	2	60.7	32.6	65.6	76.6	9.9	28.8	0.40	53.6	40.4	17.9	9.0	10.5	2
TS 8040 (Thompson)	SRW	OH	1999?	1	60.4	33.5	80.7	78.0	8.2	30.3	0.34	54.3	40.4	18.8	7.4	8.9	
Verne	SRW	KY	1990	8	60.4	38.6	68.8	76.9	9.7	29.2	0.40	53.2	35.6	17.9	9.2	10.7	2
Voris 8044	SRW	IN	1999?	1	58.1	37.5	57.8	76.0	10.7	27.7	0.41	51.6	42.2	18.7	7.0	8.5	
W 9501 (Wellman)	SRW	OH	1999?	1	59.8	35.5	69.1	77.1	9.4	28.8	0.37	49.9	38.7	18.2	8.5	10.0	4
W 9830 (Wellman)	SRW	OH	1999?	1	60.6	34.2	79.9	78.1	8.5	30.2	0.34	52.9	40.2	18.6	7.4	8.9	
W 9850 (Wellman)	SRW	OH	1999?	2	61.6	33.3	77.1	77.6	8.5	29.9	0.35	53.6	38.8	18.3	8.3	9.8	