

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 with the Strongest Gluten

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
Beau	SRW	IN	1976	26	61.9	34.8	57.3	76.6	11.2	27.3	0.40	50.8	30.4	17.5	11.3	12.8	8
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
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
Omega 78	SRW	GA	1978	13	59.2	32.3	54.3	76.0	11.4	27.2	0.40	49.8	31.6	17.5	10.1	11.6	8
Adder	SRW	IN	1985	13	61.3	31.4	75.5	78.5	9.0	28.9	0.39	49.2	31.5	18.0	9.5	11.0	7
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
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
Foster (Agripro)	SRW	KY	1997?	18	60.9	34.7	83.9	78.9	8.0	30.1	0.40	51.0	33.8	18.0	9.5	11.0	7
Hancock (Agripro)	SRW	IN	1990	3	60.6	33.6	67.4	76.9	10.1	29.0	0.38	51.7	33.3	17.8	9.7	11.2	7
John (NC)(Thompson)	SWW	CAN	1998?	1	60.5	34.6	79.0	79.2	7.8	28.1	0.42	51.2	34.6	17.7	10.1	11.6	7
Nelson	SRW	AR	1982	6	61.3	30.7	61.8	76.9	10.6	27.9	0.40	51.2	29.2	17.8	10.3	11.8	7
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 25R26	SRW	IN	1997	10	60.3	36.8	65.6	76.7	9.8	28.6	0.40	53.5	34.2	17.4	8.5	10.0	7
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
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
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
Tecumseh	SWW	MI	1973	18	61.8	33.0	71.0	77.9	9.4	28.5	0.41	49.8	28.0	17.7	11.0	12.5	7
Va 96w-158	SRW	VA	2001?	3	60.8	39.9	82.6	78.6	8.1	30.1	0.43	51.7	31.3	17.2	9.1	10.6	7

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
Armor 4045	SRW	AR?	2000?	1	60.7	36.7	72.8	76.8	9.2	30.1	0.35	56.4	40.5	18.7	7.4	8.9	6
Arthur	SRW	IN	1968	47	61.8	37.5	65.2	77.1	10.2	28.3	0.41	49.9	27.5	17.6	10.4	11.9	6
Carala	SRW	NC	1940	1	60.8	33.5	71.1	77.2	9.3	29.2	0.36	50.7	35.1	17.3	9.8	11.3	6
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
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 916	SRW	SC	1980	11	60.7	36.0	53.7	75.8	11.5	27.4	0.39	51.9	30.2	17.4	9.4	10.9	6
Coker 9663	SRW	AR	1997?	9	61.8	38.3	55.8	76.3	11.6	27.6	0.39	54.9	28.2	17.1	8.6	10.1	6
Fillmore	SRW	IN	1982	18	62.1	34.2	68.5	77.1	9.7	28.8	0.37	50.5	31.0	17.7	9.4	10.9	6
FI 301	SRW	FL	1980	17	60.9	37.8	57.4	76.1	10.9	27.6	0.39	50.2	29.1	17.5	9.9	11.4	6
FI 301H	SRW	FL	1988	2	61.0	33.8	65.2	76.9	10.3	28.7	0.43	51.1	30.1	17.7	10.0	11.5	6
Goldfield	SRW	IN	1998?	5	61.6	34.4	67.0	77.0	10.2	28.9	0.39	52.5	32.4	17.6	9.4	10.9	6
Howell	SRW	IL	1989?	6	62.3	35.2	55.1	76.4	11.4	27.1	0.39	53.3	28.5	17.4	10.1	11.6	6
Kaskaskia	SRW	IL	1999	4	61.0	34.8	46.9	75.0	11.8	26.5	0.37	56.2	35.0	18.0	7.9	9.4	6
Key	SRW	IN	1975	4	62.2		45.8	75.1	12.3	26.4	0.40	52.0	27.2	16.6	12.7	14.2	6
Madison	SRW	VA	1990	16	60.5	39.4	69.3	77.1	9.9	29.3	0.40	49.9	30.0	17.8	9.3	10.8	6
Magnum (Agripro)	SRW	IN	1983	10	61.4	31.4	51.4	75.0	12.0	28.0	0.38	50.0	33.3	17.9	9.6	11.1	6
Mallard (Agripro)	SRW	AR	1992	17	59.9	32.1	88.9	78.8	7.6	31.4	0.40	49.7	33.1	18.3	8.6	10.1	6
McNair 4823	SRW	NC	1973	2	60.8	30.2	53.2	75.8	11.7	27.4	0.42	53.8	37.5	17.2	9.0	10.5	6
Minturki	HRW	MN	1919	1	62.3	35.2	84.9	79.9	7.0	28.4	0.42	59.1	23.1	16.8	11.5	13.0	6
Pioneer 25W33	SWW	IN	1997	5	60.7	34.5	71.2	77.1	9.1	29.2	0.39	52.4	36.4	18.0	8.2	9.7	6
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
Rebecca	SWW	CAN	1992?	4	59.0	40.9	73.3	77.5	9.4	29.6	0.41	51.2	33.4	17.8	8.0	9.5	6
Roberts	SRW	GA	1999	5	61.2	38.4	62.4	76.6	10.1	28.0	0.40	54.4	33.8	17.5	8.2	9.7	6
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
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
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	6