

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 Coarse 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
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	
AGI 540 (Advanced G)	SRW	OH	1999?	1	61.4	30.6	77.7	78.6	8.3	28.8	0.35	51.5	26.5	17.1	8.6	10.1	4
AGI 550 (Advanced G)	SRW	OH	1998?	1	60.1	35.7	67.9	77.0	9.0	28.2	0.38	50.0	31.3	17.9	8.1	9.6	
American Banner	SWW	MI	1881	3	61.6	42.0	64.6	77.5	9.5	27.1	0.42	50.7	29.5	17.2	10.4	11.9	2
Atlas 66	SRW	NC	1948	2	61.7	34.4	33.7	74.5	14.0	24.9	0.46	52.1	30.2	16.5	12.1	13.6	3
Baldrock	SRW	MI	1931	1	62.3	37.6	57.4	76.9	10.6	26.5	0.48	52.8	25.8	17.1	11.6	13.1	3
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
Benjamin (Steyer See)	SRW	OH	1999?	2	62.1	32.7	67.1	77.5	9.4	27.8	0.38	53.5	26.2	17.1	8.8	10.3	
Berkely Rock	HRW	MI	1922	1	62.2	35.5	58.5	78.3	9.6	24.4	0.48	64.1	20.8	15.7	10.6	12.1	3
Blackhawk	SRW	WI	1947	1	62.3	30.9	79.7	78.6	7.6	28.8	0.40	54.5	25.3	16.6	10.6	12.1	3
Bounty (Pro Seeds)	SRW	MI?	1996?	1	57.2	31.2	48.7	75.7	12.0	26.4	0.41	53.7	29.8	16.7	10.2	11.7	
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

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
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
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
Coker 47-27 (nat'l coll)	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	
Coker 47-27 (NC sour)	SRW	SC	1950	3	61.4	32.6	66.2	77.9	9.8	27.3	0.42	55.0	23.9	16.4	10.3	11.8	4
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
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
Dawson	SWW	CAN	1881	2	60.7	35.4	67.0	77.5	9.5	27.8	0.41	50.5	30.2	17.7	9.6	11.1	2
Delta Queen (Agripro)	SRW	SC	1978	6	58.3	32.5	61.4	76.6	10.5	28.0	0.41	51.5	27.3	17.2	10.1	11.6	2
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
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
Dyna Gro 426	SRW	MI?	1999?	1	61.3	30.9	75.0	77.8	8.2	28.8	0.37	53.9	27.5	16.9	8.1	9.6	
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
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
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
Flint	SRW	VA?	1852	4	61.4	34.1	68.3	77.5	9.5	28.2	0.38	51.7	28.3	17.1	10.1	11.6	3
Forward	SRW	NY	1920	3	61.8	40.0	58.4	77.2	10.3	26.2	0.46	52.8	27.4	16.6	11.1	12.6	2
Frisco	SRW	TX	1953	1	62.1	38.3	52.8	76.4	11.1	26.1	0.42	51.9	28.1	17.1	10.9	12.4	4
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
GA 1123	SRW	GA	1959	3	60.4	36.8	66.6	77.3	10.3	28.6	0.42	52.4	28.0	17.1	9.8	11.3	2
Gipsy	SRW	GIPSY	1877	3	60.8	32.1	68.5	77.7	9.0	27.6	0.40	53.0	31.2	17.4	10.4	11.9	2
GL 9240 (Greenland)	SRW	OH	199?	1	61.6	30.2	76.7	77.7	8.9	30.0	0.42	52.4	29.0	16.7	9.5	11.0	
Gold Drop	SRW	ENGLAND	1834	3	62.0	33.4	61.8	77.3	9.7	26.6	0.44	57.1	26.0	16.2	11.1	12.6	2
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
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
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	
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
Hoffman 95	SRW	PA?	1997?	3	62.3	40.8	70.6	77.6	9.8	29.0	0.37	54.6	29.4	17.8	8.7	10.2	
Illini Chief	SRW	IL	1915	1	61.4	36.5	48.5	75.9	11.4	25.6	0.41	52.9	26.9	17.2	11.2	12.7	
Joseph (Steyer Seed)	SRW	OH	1998?	2	61.6	34.1	65.3	77.0	10.1	28.3	0.36	52.8	29.2	17.3	8.6	10.1	2
Kavkaz	HRW	Russia	?	1	62.2	38.2	70.7	78.7	8.7	26.9	0.38	58.8	22.0	16.8	10.1	11.6	4
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
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

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
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
Lucas	SRW	OH	1959	2	61.7	37.7	48.2	75.3	12.0	26.8	0.40	52.9	34.6	17.1	10.3	11.8	2
Mammoth Red	SRW	TX	1890	2	61.5	37.1	17.9	73.1	16.2	23.6	0.49	60.1	32.5	16.4	11.2	12.7	2
Mediterranean	SRW	MD	1837	2	62.3		54.6	76.1	11.0	26.9	0.45	53.5	27.0	16.7	12.5	14.0	3
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
Morey	SRW	GA	199?	1	60.5	36.1	58.7	76.8	10.6	27.0	0.46	52.2	29.6	17.5	10.3	11.8	5
Nabob	SRW	OH	1928	1	62.2	38.0	65.8	77.2	9.4	27.7	0.39	50.9	28.3	17.9	9.7	11.2	
Nittany	SRW	PA	1918	2	60.5	44.1	76.0	78.1	8.6	29.1	0.42	52.1	33.5	17.5	10.4	11.9	2
Nured	SRW	NY	1939	2	61.7	39.4	70.4	77.7	9.2	28.3	0.45	52.6	31.3	17.2	10.5	12.0	2
NY6432-10	SWW	NY	1988	14	61.2	35.9	79.7	78.6	8.3	29.5	0.39	51.3	27.4	17.6	9.6	11.1	2
Penquite	SRW	OH	1857	2	61.4	32.5	57.0	76.4	10.2	26.6	0.38	52.9	30.5	17.3	11.5	13.0	2
Podach (Steyer Seed)	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
Pontiac (Agripro)	SRW	IN	199?	5	61.5	33.0	43.1	74.5	12.9	26.7	0.42	52.2	30.5	17.1	9.7	11.2	
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
Reino (Steyer)	SRW	OH?	1999	2	60.0	33.8	60.0	76.3	10.0	27.5	0.36	51.5	31.6	17.8	8.3	9.8	2
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	
Rudy	SRW	OH	1871	1	62.1	42.6	55.6	76.3	11.5	27.4	0.39	52.6	27.4	17.3	9.6	11.1	3
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
RW 151 (Classic - Nos)	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	
Savannah (Agripro)	SRW	IN	1990	1	60.8	31.9	71.4	77.3	9.3	29.2	0.46	55.4	34.6	17.7	9.2	10.7	3
SC 1365 (Seed Consu)	SRW	OH?	1999?	1	61.7	31.1	74.3	77.8	8.6	28.9	0.37	54.5	26.1	17.2	7.8	9.3	
Scotty	SRW	IL	1982	16	61.0	34.2	64.8	77.1	10.3	28.3	0.42	48.7	27.8	18.0	9.5	11.0	2
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
Sibley No. 81	SRW?	OK	1881	2	62.3	34.5	55.7	76.9	10.5	25.9	0.42	58.3	22.6	16.5	10.5	12.0	2
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	
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
SR 49 (Garst Seeds)	SRW	IN	1984	2	61.0	33.1	69.7	77.3	9.6	29.0	0.40	50.5	29.8	17.9	10.1	11.6	1
Succession (Hytest)	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	
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	

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
Vermillion (UNB)	SRW	IN	1955	1	62.1	34.1	64.9	77.1	9.5	27.6	0.38	54.6	29.8	17.3	9.9	11.4	
VPI 112	SRW	VA	1915	1	61.0	44.0	72.7	78.2	8.4	27.8	0.41	53.0	25.2	15.5	11.5	13.0	
Wakeland	SRW	NC	1959	3	60.7	32.3	40.2	74.9	12.6	25.2	0.41	54.3	27.3	16.8	11.6	13.1	3
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
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	
Yorkwin	SWW	NY	1935	2	61.0	39.3	74.4	78.1	8.8	28.8	0.40	52.4	29.1	17.5	9.0	10.5	3