

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.

Wheat Varieties That Produce "Yellow Flour"

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
AGI 540 (Advanced Genetics)	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
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
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
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
Ariss (OAC)	SWW	CAN	1997?	5	62.3	36.6	65.9	76.9	9.5	28.2	0.42	50.6	32.9	17.7	8.6	10.1	2
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
Benjamin (Steyer Seeds)	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	
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
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 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
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
D2295	SWW	MI	1997?	3	59.3	39.6	41.1	75.0	12.2	25.1	0.39	52.6	35.2	17.4	8.8	10.3	1
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
Fairfield	SRW	IN	1942	2	60.2	39.1	35.3	74.6	13.5	24.9	0.43	55.0	35.2	17.0	9.6	11.1	2
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
Freedom	SRW	OH	1991	10	59.0	36.7	54.2	75.6	11.6	27.8	0.40	53.0	31.3	17.4	8.2	9.7	2
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
Patton (Agripro)	SRW	IN?	1999	5	60.7	42.3	61.8	76.7	10.4	27.9	0.39	54.0	33.1	17.8	9.4	10.9	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
Pioneer 2510	SRW	IN	1991	20	62.1	37.6	73.8	77.4	8.8	29.4	0.40	54.3	33.1	17.8	8.5	10.1	2
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	
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
Pioneer 2552	SRW	IN	199?	13	61.6	41.9	72.9	77.3	9.1	29.6	0.39	54.5	34.3	17.9	8.9	10.4	4
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

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
Ramrod	SWW	MI	1996?	4	59.8	38.9	54.4	76.1	10.8	26.6	0.44	52.1	33.2	17.7	8.8	10.3	1
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
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
RS 901 (Rupp Seeds)	SRW	OH	1999?	1	58.0	32.4	58.5	76.1	10.2	27.4	0.38	52.7	36.6	18.0	7.4	8.9	
SC 1365 (Seed Consultants)	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	
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
Terral 1011	SRW	AR	1994?	3	59.4	32.6	85.8	78.8	8.2	31.0	0.39	49.5	34.4	18.3	8.2	9.7	
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	
Va 96w-247	SRW	VA	2001?	2	61.7	40.6	60.0	76.3	10.9	28.2	0.38	56.2	33.3	17.2	7.9	9.4	2
Wakefield	SRW	VA	1990	16	60.4	39.6	67.1	77.1	9.8	28.5	0.42	51.2	33.8	17.8	8.7	10.2	3