

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.

### Samples with the Highest 1,000-Kernel 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	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
2	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
3	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
4	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	
5	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	
6	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	
7	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
7	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	
9	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	
9	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
9	Mendon	SRW	MI	1994?	7	59.7	44.1	67.3	77.3	9.5	28.1	0.39	52.3	34.1	17.7	8.9	10.4	3
9	Annett	SWW	CAN	1992?	3	61.4	44.1	61.8	76.8	10.2	27.6	0.44	50.4	32.5	17.9	8.9	10.4	3
13	Marilee	SWW	CAN	199?	4	59.0	44.0	78.1	78.0	8.2	29.5	0.40	52.2	34.7	17.8	7.6	9.1	
13	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	
13	FFR-544W	SRW	IN	199?	1	61.3	44.0	43.3	74.8	12.5	26.2	0.43	54.7	37.6	17.8	8.4	9.9	
16	CM 544 (Country Mark)	SRW	IN	1994?	2	61.3	43.8	39.3	74.4	13.1	26.0	0.40	53.1	36.1	17.9	7.6	9.1	2
16	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
18	Zavitz (OAC)	SWW	CAN	199?	3	59.9	43.5	59.9	76.7	10.7	27.5	0.42	51.6	32.4	17.8	8.6	10.1	2
19	VPI 131	SRW	VA	1915	1	62.3	43.3	65.0	77.1	9.7	27.8	0.39	52.2	32.7	17.2	10.6	12.1	2
20	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

RANK	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
21	Wheeler	SRW	VA	1980	8	60.7	42.9	86.5	78.7	7.9	31.0	0.42	49.9	34.6	18.1	9.8	11.3	4
22	FI 302	SRW	FL	1984	24	61.0	42.6	78.0	77.9	8.6	29.9	0.38	51.0	32.3	17.6	8.9	10.4	3
33	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
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
25	Genesee	SWW	NY	1951	14	60.4	42.4	63.2	76.9	10.1	27.8	0.40	49.1	29.4	17.7	9.6	11.1	3
26	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
26	Lowell	SWW	MI	1992?	6	57.5	42.3	69.7	77.6	9.5	28.6	0.41	51.0	35.7	17.5	9.2	10.7	5
26	Delaware	SWW	CAN	1992	3	58.4	42.3	63.5	76.8	10.2	28.1	0.41	52.8	37.7	18.2	8.0	9.5	2
29	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	
29	Avon	SWW	NY	1958	1	61.7	42.2	65.9	76.9	9.7	28.3	0.42	50.6	31.7	17.2	9.3	10.8	
31	Cartier (AC)	SWW	CAN	1997?	4	61.3	42.1	73.9	77.8	8.9	29.0	0.41	50.6	31.9	17.6	8.7	10.2	4
31	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
33	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