Maryland State Wheat Trials 2014-15 Yield Summary Table

	Wye		Beltsville		Clarksville		Keedysville		Statewide	
	Yield	Test Wt	Yield	Test Wt	Yield	Test Wt	Yield	Test Wt	Yield†	Test Wt†
Entry	bu ac^{-1}	lbs bu^{-1}	bu ac^{-1}	lbs bu^{-1}	bu ac^{-1}	lbs bu-1	bu ac^{-1}	lbs bu^{-1}	bu ac^{-1}	lbs bu^{-1}
USG 3523	80.9 *	55.4	68.5 *	54.9	70.4	56.0	57.8 *	51.8	69.4 *	52.9
SC 1325™	79.5 *	53.5	60.6 *	52.9	68.1	55.5	na	na	69.4 *	52.8
USG 3895	77.9 *	53.6	60.5 *	52.9	79.1 *	57.2	57.3 *	52.6	68.7 *	52.8
USG EXP 3756	75.8 *	55.8	67.2 *	53.5	74.8 *	56.0	50.9	54.2	67.2 *	53.3
MAS #49	75.1 *	55.6	59.4 *	52.6	65.1	55.9	na	na	66.5 *	53.3
VA10W-21	71.4	57.9	63.9 *	55.4	69.6	57.1	60.3 *	54.4	66.3 *	54.4
9233	74.0 *	55.2	61.6 *	54.1	63.0	57.5	na	na	66.2 *	55.6
SS EXP 8513	74.5 *	54.5	66.3 *	54.6	76.2 *	57.0	44.0	51.1	65.3 *	53.0
Jamestown	77.1 *	57.0	57.4	56.3	63.3	58.6	61.5 *	52.1	64.8 *	54.4
Hilliard	73.6	56.4	59.6 *	54.9	69.7	57.0	54.9 *	54.3	64.4 *	54.0
MD07W64-13-4	66.9	56.1	62.4 *	54.9	63.6	56.4	na	na	64.3 *	54.4
MD04W249-11-7	73.1	56.9	61.9 *	56.2	70.1	57.3	51.1	56.3	64.0 *	55.0
SY547	69.7	54.5	68.9 *	55.6	71.5	57.4	45.8	55.8	64.0 *	54.2
SW550	72.2	55.0	65.9 *	54.3	70.7	57.6	47.0	52.9	63.9 *	53.4
LCS 3211	79.6 *	56.4	62.3 *	54.9	69.1	55.8	43.8	50.2	63.7 *	52.6
FSX 866	77.1 *	55.4	59.6 *	52.7	na	na	53.5	53.4	63.4 *	52.6
FSX 860	76.4 *	55.2	60.2 *	53.6	63.5	54.9	52.3	54.2	63.1 *	53.1
MAS #46	75.9 *	54.2	63.6 *	52.4	68.1	56.7	44.9	51.7	63.1 *	52.5
USG 3404	71.3	54.0	56.7	53.6	76.2 *	57.9	47.5	50.8	62.9 *	52.7
MAS #37	71.1	56.0	58.7 *	53.9	71.5	56.3	50.1	52.9	62.9 *	52.5
FSX 867	75.5 *	53.3	63.7 *	53.2	67.2	56.1	44.8	49.2	62.8 *	50.5
FSX 862	76.4 *	55.9	57.6	54.6	66.7	56.5	50.4	48.9	62.8 *	52.2
9522	78.4 *	54.9	64.1 *	52.7	66.8	57.9	41.4	54.8	62.7 *	55.1
Shirley	74.0 *	55.4	69.5 *	53.6	52.4	56.9	53.5	54.1	62.3 *	53.5
SS 8415	65.6	55.7	64.8 *	54.3	74.1 *	57.0	44.6	54.9	62.3 *	53.8
LCS 2564	68.3	57.0	62.0 *	55.8	70.6	57.2	48.2	53.5	62.3 *	54.4
MD04W249-11-12	77.5 *	58.1	62.6 *	56.2	70.6	57.6	38.1	52.8	62.2 *	54.1
FS 850	66.6	56.5	53.7	54.4	71.4	56.9	56.8 *	50.9	62.1 *	54.7
MDC07026-F2-19-13-4	68.3	57.7	62.3 *	55.9	65.9	58.8	51.7	56.6	62.1 *	54.9
MAS #51	74.5 *	54.0	57.1	54.5	70.6	57.7	45.4	52.6	61.9 *	52.0
FSX 869	71.3	54.2	59.4 *	52.9	69.1	56.2	47.6	50.9	61.9 *	52.2
Newport	77.8 *	51.8	58.8 *	53.5	71.2	55.0	39.3	50.8	61.8 *	51.8
USG 3251	72.8	54.1	61.5 *	54.1	67.0	56.9	45.8	50.0	61.8 *	51.6
USG 3013	77.5 *	55.6	61.1 *	54.5	60.1	57.4	48.3	52.5	61.8 *	53.3
EXP 1510	72.3	55.4	54.1	54.3	70.4	56.6	50.0	52.4	61.7 *	54.7
FSX 868	77.1 *	53.8	55.7	53.9	57.7	55.3	55.6 *	54.0	61.5 *	52.3
MBX 11-V-258	56.7	56.6	65.6 *	55.0	72.3 *	57.5	50.8	54.9	61.4 *	53.2
TN 1201	76.8 *	54.5	58.0	53.4	61.1	56.4	49.4	53.1	61.3 *	53.4
SC 1315™	69.4	57.6	54.1	53.2	68.7	55.7	52.8	52.5	61.3 *	53.3
MAS #59	71.2	55.7	54.8	54.2	71.2	56.8	47.7	52.9	61.2 *	53.3
GA04417-12E33	72.2	58.6	60.8 *	56.0	58.7	58.6	52.5	56.7	61.1 *	55.7
MAS #32	76.2 *	54.6	59.7 *	53.0	na	na	47.3	53.6	61.0	52.7
MBX 14-S-210	72.0	56.7	61.6 *	54.6	66.8	54.9	43.2	52.9	60.9	53.2
USG 3201	72.1	58.3	58.0	55.7	na	na	52.6	52.8	60.9	54.3
MAS #6	75.2 *	52.5	60.7 *	52.2	56.6	54.9	50.9	53.5	60.9	52.2
MAS #35	76.0 *	55.1	67.0 *	54.4	62.0	56.5	38.3	52.5	60.8	53.3
LCS NEWS 13EF171	69.7	58.1	56.5	53.9	63.7	59.1	53.1	56.1	60.7	55.0
FS 854	76.2 *	53.7	56.0	54.2	67.9	57.2	42.8	53.0	60.7	52.9
FSX 863	75.9 *	55.2	62.3 *	55.6	na	na	43.8	53.6	60.7	53.6
SC 1342™	75.9 *	54.4	62.9 *	53.5	63.8	56.1	39.0	51.6	60.4	52.3
SS EXP 8530	76.2 *	53.6	63.9 *	52.9	64.6	55.0	36.1	54.5	60.2	52.7
MAS #42S	75.0 *	55.8	58.4 *	54.3	67.4	56.6	39.8	54.1	60.2	53.5
MAS #45	77.0 *	55.5	48.9	54.6	72.2	56.4	41.8	52.2	60.0	53.3
FS 888	72.6	57.2	54.2	55.6	68.5	57.3	43.8	54.0	59.8	54.3
WX 14611	71.2	54.7	60.3 *	54.8	63.9	55.9	43.6	49.7	59.7	52.6
SS 8360	71.0	55.2	57.0	54.8	75.0 *	56.9	35.7	49.4	59.7	52.3
LCS 2141	71.5	55.6	60.5 *	53.2	64.8	56.1	41.7	49.6	59.6	52.1
MAS #53	64.1	58.4	56.5	56.8	67.3	59.6	50.4	53.0	59.6	54.2
9552	78.1 *	55.4	59.3 *	53.4	64.3	57.4	35.7	52.3	59.3	54.6
Featherstone 73 (VA09W-73)	63.8	56.7	59.7 *	54.9	68.0	55.9	45.4	54.4	59.2	55.5
SW 52	68.0	57.1	56.7	55.5	73.0 *	58.0	39.3	53.6	59.2	54.5
SY483	66.2	54.4	69.9 *	53.3	62.0	56.7	38.8	51.2	59.2	52.5
GA03564-12E6	71.5	57.5	55.4	56.5	62.5	57.1	45.5	57.4	58.7	54.1
SY474	65.8	56.5	61.3 *	56.1	61.6	55.0	46.0	55.4	58.7	54.0
MAS # 7	70.7	55.2	66.0 *	53.1	51.5	55.2	46.1	53.4	58.6	52.6
VA 11W-106	68.7	55.3	65.8 *	54.4	56.1	58.4	43.5	54.2	58.5	54.0
MBX 15-E-229	67.5	53.8	59.5 *	53.8	64.7	56.1	42.0	50.1	58.4	52.3
Laurel	76.9 *	53.0	60.6 *	53.8	43.3	56.5	52.4	51.8	58.3	52.3
WX 15733	71.2	52.5	59.4 *	51.1	63.7	53.8	37.2	51.1	57.9	51.2
MERL	72.6	55.9	62.2 *	56.8	50.6	59.0	45.7	52.7	57.8	54.5
USG 3315	72.6	57.4	64.2 *	54.1	51.5	58.8	41.9	52.0	57.6	53.7
GA04434-12LE28	63.9	53.8	59.6 *	56.1	57.2	57.6	48.8	53.4	57.4	53.8
FS 820	77.4 *	58.0	59.7 *	56.2	45.5	58.0	45.4	54.3	57.0	56.6
MBX 14-K-297	69.4	55.2	60.1 *	55.1	56.2	57.8	39.2	51.0	56.2	51.9
MAS #47	68.4	53.7	55.7	53.0	57.8	55.9	42.1	55.7	56.0	53.1
MBX 12-V-251	62.0	54.2	60.0 *	54.8	67.2	56.7	34.7	53.4	56.0	53.5
SS 8340	81.9 *	55.9	69.3 *	56.1	36.3	58.2	35.9	49.5	55.9	53.4
FSX 861	73.0	55.0	57.2	55.2	45.1	54.6	47.1	50.8	55.6	52.7
SS 5205	65.0	56.4	63.2 *	54.9	54.9	57.3	38.1	53.7	55.3	54.1
MD09W272-8-4-13-3	62.7	58.4	49.7	55.3	53.8	59.3	52.0	57.7	54.6	56.0
EXP 1502	67.1	54.6	57.6	53.6	50.9	56.8	38.3	51.5	53.5	54.1
SY007	69.2	57.5	52.8	53.7	52.5	56.3	37.8	50.0	53.1	51.7
Mean	72.3	55.5	60.4	54.3	63.6	56.8	46.1	52.8	60.8	53.4
Coefficient of Variation (%)	8.9	3.4	11.6	2.9	14.0	2.3	16.1	4.5	16.4	4.1
LSD_{05}‡	8.0	2.1	10.4	2.4	6.8	1.3	7.0	3.6	8.0	1.9

† All yields and test weights are reported at a 13.5% grain moisture content.

‡ Values followed by * are not significantly different from the leading entry.

Management and Results Notes:

An extraordinarily cold and wet planting and harvest season reduced tillering and raised variability in the test sites. This increased our coefficients of variance to higher than normal, but the Fishers'LSD_{05}, which is the test used to separate which means are significantly different from each other, are acceptable. However, Poplar Hill data were not published, because these data are not representative, due to values being low and highly variable.

It is notable that as harvest dates progressed from Late June and into the first week of July, variability increased. There were many rains throughout the state, which tends to and decrease grain test weight and increase variability. The data exhibiting the lowest variability were those sites harvested earliest, from the Wye and Beltsville locations, and as such may be considered more representative and with the greatest ability to detect differences between entries.

Generally, it is recommended for producers to select entries that perform consistently as well as the top entry across the majority of testing locations. These entries include, but are not limited to: USG 3523, SC 1325TM, MAS # 49, VA10W21, SS EXP 8513, and Hilliard. Choosing these varieties is not a guarantee of yield, and many other entries could perform similarly to those previously stated under a given environment and management system. Further, it is recommended for producers planting a new variety to do so utilizing a relatively small acreage.

Management Summary:

Plant Date	20-Oct	9-Oct	9-Oct	6-Oct
Harvest Date	25-Jun	1-Jul	2-Jul	7-Jul
Tillage	Minimum	Minimum	Minimum	Conventional
Fertilization	100 lbs March	45lbs Mar., 45lbs Apr.	10lbs Sept, 65 lbs Apr.	50 lbs Mar., 40 lbs Apr.
Weed Control	Harmony	Harmony Extra	Harmony SG	Volta Extra

Maryland State Barley Trials 2014-15 Yield Summary Table

	Statewide		Wye		Clarksville	
	Yield†	**Test Wt†**	**Yield**	**Test Wt**	**Yield**	**Test Wt**
	bu ac-1	**lbs bu-1**	**bu ac-1**	**lbs bu-1**	**bu ac-1**	**lbs bu-1**
AMAZE 10 (VA07H-31WS)	67.5 *	56.5	82.3	58.1	52.6 *	54.8
Atlantic	73.5 *	47.6	99.0 *	48.8	48.1 *	46.4
FS 501	70.2 *	44.6	88.8 *	46.1	51.6 *	43.1
FS 950	77.2 *	46.1	103.3 *	47.6	51.0 *	44.5
Nomini	72.2 *	44.4	94.7 *	45.1	49.6 *	43.8
Secretariat (VA08B-85)	74.7 *	47.7	96.7 *	48.2	52.6 *	47.2
Thoroughbred	67.6 *	47.2	84.2	48.9	51.0 *	45.4
Mean	71.8	47.7	92.7	49.0	50.9	46.5
Coefficient of Variation (%)	31.8	8.5	11.3	8.3	12.4	8.0
LSD05‡	8.4	0.7	16.6	0.9	11.2	1.0

† All yields and test weights are reported at a 13.5% grain moisture content.

‡ Values followed by * are not significantly different from the leading entry.

Plant Date	20-Oct	9-Oct
Harvest Date	25-Jun	2-Jul
Tillage	Minimum	Minimum
Fertilization	80 lbs March	10lbs Sept, 55 lbs Apr.
Weed Control	Harmony	Harmony SG

More information can be found online at:
https://www.psla.umd.edu/extension/extension-project-pages/small-grains-maryland

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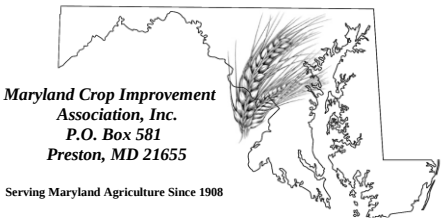

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