

Table 1. 2013 Maryland State Wheat Variety Performance Trials Averaged Across 5 Environments: Quantico, Queenstown (No-Till and Conventional Till), Clarksville, and Keedysville, MD.

Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (inches)	Scab (0-9)	SBWMV (0-9)	Beards
USG 3404	83.5	56.6	131.9	34.1	3.0	0.0	yes
SW 53	79.6	59.5	129.7	33.9	2.7	0.0	no
USG 3315	78.5	58.4	131.2	33.5	1.7	0.0	no
SS 5205	78.3	58.1	129.7	31.2	2.0	2.0	no
USG 3555	77.6	56.9	129.6	31.5	2.7	0.0	no
25R40	77.6	57.2	131.9	31.7	2.7	3.3	yes
25R77	76.4	58.1	130.6	32.3	3.3	2.0	yes
MAS #4	76.4	59.6	130.8	34.0	2.0	1.3	yes
26R41	76.3	57.0	131.6	32.2	3.7	0.0	yes
9223	76.3	56.8	131.2	36.5	1.3	0.0	no
USG 3201	76.0	59.2	130.9	33.7	1.7	0.0	yes
VA 07W-415	75.8	57.2	129.6	35.4	3.3	0.0	no
USG 3523	75.8	56.8	131.3	33.6	2.3	1.0	yes
USG 3770	75.6	57.6	127.3	35.9	2.3	0.0	no
MAS #23	75.6	55.7	130.7	31.9	2.3	8.7	yes
FSX 820	74.9	58.7	131.2	33.9	2.3	0.0	yes
SS 8340	74.4	58.7	130.9	33.4	1.7	0.0	yes
SS 8500	74.1	56.9	131.9	37.7	3.0	0.0	yes
MAS #7	74.0	56.8	131.2	34.1	1.3	0.0	no
USG 3251	73.9	57.3	132.5	35.7	3.0	1.3	yes
FS 888	73.2	58.5	131.3	34.4	1.7	0.0	no
MD04W249-11-7	72.4	59.0	130.5	36.2	2.3	1.3	yes
FSX 870	71.8	59.1	130.1	33.5	1.3	0.0	yes
SS 8404	71.7	59.1	131.1	31.8	4.7	0.0	yes
25R32	71.7	57.8	131.8	33.2	1.0	0.0	yes
Shirley	71.6	56.0	132.6	31.3	3.3	4.0	no
USG 3993	71.3	57.9	132.1	35.5	1.0	0.0	no
MD04W249-11-12	71.3	58.8	129.2	35.0	2.3	0.0	yes
SW 52	71.2	58.4	131.3	33.9	1.7	0.0	no
FSX 815	71.2	56.3	130.3	34.8	2.0	8.0	no
SY 1526	71.1	57.0	129.9	36.2	2.0	1.3	no
MAS #2	71.0	58.5	132.4	38.4	1.3	2.0	no
Mercer Brand 12W-270	71.0	57.7	131.7	36.3	1.0	0.0	no
Mercer Brand VA258	70.7	57.0	132.2	37.3	2.0	2.0	no
Mercer Brand 12V51	70.3	56.6	130.7	32.9	2.0	2.3	no
SY Harrison	69.4	56.0	130.9	32.4	4.0	1.7	yes
MAS #6	68.4	55.5	129.8	31.4	2.0	0.0	yes
VA 09W-73	68.1	57.2	132.7	33.5	1.3	8.7	no
SS 8412 (SS EXP 412)	68.0	58.0	130.3	33.0	2.7	0.0	no
GA 031257-10LE34	67.2	58.4	129.7	33.2	6.0	0.0	yes
MAS #26	67.2	56.2	131.8	38.1	2.0	6.3	no
Chesapeake	67.1	58.4	129.8	33.6	2.7	3.0	no
Jamestown	66.9	59.2	127.6	31.7	3.0	0.0	yes
Oakes	66.4	58.6	132.6	33.7	1.3	8.7	no
USG 3612	65.8	55.8	130.3	34.2	2.0	8.3	no
SS 520	65.8	56.8	127.8	34.9	3.0	8.3	no
Yorktown	65.8	57.0	131.0	33.2	1.7	9.0	no
SY 483	65.7	55.6	132.7	36.1	2.0	2.3	no
GA 04570-10E46	64.9	58.8	128.6	35.9	5.3	0.0	yes
MD07W402-163-12-2	64.4	56.6	130.3	30.5	2.7	1.7	no
Mercer Brand 12W-296	64.4	56.1	131.6	38.7	1.3	4.3	no
MD07W402-104-12-2	64.1	58.8	129.7	34.2	3.0	0.0	yes
MD07W402-104-12-1	62.8	58.4	129.2	32.9	2.7	2.3	yes
MD07W402-104-12-3	62.6	58.8	129.6	34.9	2.7	1.7	yes
Means	71.3	57.6	130.7	34.5	2.4	2.0	
Least Significant Difference (LSD) (0.05)	7.0	0.7	0.9	1.5	1.0	2.9	
CV (%)	13.5	1.6	1.0	5.5	25.5	89.5	

Yields in boldface are not significantly different from the highest yielding entry.

Table 2. Relative Yield of Wheat Entries as a Percentage of the Mean Yield of All Entries at Each Location and Throughout the State in 2013.

Wheat Entry	Statewide	Quantico	Wye-NT	Wye-CT	Clarksville	Keedysville
USG 3404	117.1	111.5	121.5	117.5	119.8	112.0
SW 53	111.7	100.9	114.7	104.7	116.7	127.6
USG 3315	110.1	118.4	107.5	111.9	109.2	99.3
SS 5205	109.9	101.1	111.4	118.6	106.2	105.6
USG 3555	108.8	92.7	122.5	111.4	107.4	91.2
25R40	108.8	105.0	109.0	111.8	109.3	105.7
25R77	107.1	110.4	88.5	118.9	111.3	93.7
MAS #4	107.1	104.4	102.0	111.7	113.8	98.4
26R41	107.0	97.2	107.5	106.6	113.3	110.4
9223	107.0	105.3	90.3	109.6	120.3	109.1
USG 3201	106.6	111.0	114.6	94.2	109.8	108.1
VA 07W-415	106.3	105.1	109.1	102.4	110.4	106.7
USG 3523	106.2	111.1	108.8	106.1	106.3	95.1
USG 3770	106.1	98.9	115.7	110.3	104.8	101.0
MAS #23	106.0	106.5	110.5	118.6	68.2	124.5
FSX 820	105.0	103.7	97.3	111.4	108.4	99.4
SS 8340	104.3	109.6	100.3	100.2	108.3	104.6
SS 8500	103.9	95.8	98.0	108.9	106.6	108.2
MAS #7	103.8	106.7	94.1	103.9	107.3	109.1
USG 3251	103.6	96.8	106.5	99.2	106.0	113.0
FS 888	102.6	100.6	94.9	96.7	106.8	120.8
MD04W249-11-7	101.5	103.9	102.4	91.8	109.2	104.4
FSX 870	100.6	101.6	98.1	101.0	111.4	86.5
SS 8404	100.6	91.2	100.9	104.8	107.0	94.3
25R32	100.5	100.5	101.9	99.7	111.7	83.3
Shirley	100.4	99.5	102.0	97.7	105.7	95.9
USG 3993	100.0	100.2	93.2	101.5	102.8	102.2
MD04W249-11-12	100.0	103.4	92.7	98.8	110.9	87.7
SW 52	99.9	101.0	94.4	101.0	94.9	110.2
FSX 815	99.9	105.4	97.6	120.4	77.1	85.4
SY 1526	99.7	99.3	97.7	81.3	110.6	123.9
MAS #2	99.6	106.5	106.0	95.9	87.0	104.6
Mercer Brand 12W-270	99.6	102.6	101.8	89.7	103.1	102.7
Mercer Brand VA258	99.1	104.8	105.0	94.9	89.1	103.8
Mercer Brand 12V51	98.6	98.3	97.6	102.6	102.3	86.5
SY Harrison	97.4	97.4	95.0	99.3	102.6	88.8
MAS #6	95.9	92.3	98.8	88.3	110.4	90.7
VA 09W-73	95.6	95.9	101.2	101.4	67.8	112.5
SS EXP 412	95.4	93.6	106.8	92.3	97.5	83.7
GA 031257-10LE34	94.3	76.1	94.1	101.8	103.1	90.7
MAS #26	94.2	94.9	95.9	84.1	96.1	108.1
Chesapeake	94.1	92.3	93.4	91.8	101.3	90.8
Jamestown	93.9	103.5	98.2	80.2	91.6	97.3
Oakes	93.1	99.7	94.7	98.6	69.5	102.5
USG 3612	92.3	110.9	92.1	92.1	74.7	91.1
SS 520	92.2	109.5	99.6	94.8	60.3	96.6
Yorktown	92.2	97.4	99.9	93.6	71.8	101.4
SY 483	92.1	89.4	81.8	91.3	100.0	100.7
GA 04570-10E46	91.0	76.5	96.4	85.4	106.2	91.7
MD07W402-163-12-2	90.3	86.4	94.2	94.9	90.9	78.9
Mercer Brand 12W-296	90.2	90.8	89.9	86.9	86.9	100.2
MD07W402-104-12-2	89.9	90.6	92.2	86.1	95.9	84.0
MD07W402-104-12-1	88.0	93.7	88.5	88.6	86.4	79.8
MD07W402-104-12-3	87.8	92.3	74.1	87.0	94.0	93.6

Table 3. Two-and Three-Year Averages of Grain Yield and Test Weight of Repeated Wheat Entries in Maryland (2011-2013).

Wheat Entry	Yield (2-year)	Test Weight (2-year)	Yield (3-year)	Test Weight (3-year)
25R40	81.6	57.6	NA	NA
MAS #23	78.7	57.1	NA	NA
SW 53	78.3	59.8	NA	NA
USG 3770	77.9	58.4	78.2	58.1
USG 3555	77.4	57.4	76.7	56.4
SS 5205	77.0	59.2	76.6	58.7
USG 3201	76.6	59.5	77.2	58.8
FSX 820	75.7	59.1	NA	NA
USG 3315	75.7	59.1	76.5	58.5
USG 3251	75.5	56.0	NA	NA
Mercer Brand 12V51	75.2	57.6	76.3	56.9
Shirley	74.2	56.7	NA	NA
MAS #4	74.1	59.7	75.5	58.8
Mercer Brand VA258	73.8	57.4	75.7	56.6
SS 8500	72.9	57.5	NA	NA
FS 888	72.8	59.0	74.2	58.2
FSX 815	72.6	56.1	NA	NA
25R32	72.5	58.8	NA	NA
MAS #7	72.1	56.5	72.9	55.9
SS 8412 (SS EXP 412)	72.0	58.7	NA	NA
SS 8340	71.9	59.3	NA	NA
SY 1526	71.8	57.8	NA	NA
USG 3612	71.6	56.0	NA	NA
MAS #2	70.6	58.4	72.9	57.5
SS 8404	70.2	59.7	70.4	59.0
Yorktown	69.8	58.0	NA	NA
Jamestown	69.6	60.3	71.0	59.7
SS 520	68.3	57.7	69.7	56.8
Oakes	68.0	58.8	66.5	57.7
Chesapeake	67.6	59.0	69.7	58.2

Table 4. Maryland State Wheat Variety Performance Trials at Quantico, MD				
Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Scab (0-9)
USG 3315	78.5	56.4	129.7	1.7
USG 3404	73.9	53.6	130.0	3.0
USG 3523	73.6	53.8	129.3	2.3
USG 3201	73.6	56.4	129.7	1.7
USG 3612	73.5	53.5	129.7	2.0
25R77	73.2	55.2	129.3	3.3
SS 8340	72.7	55.8	129.3	1.7
SS 520	72.6	55.0	128.3	3.0
MAS #7	70.7	54.5	129.7	1.3
MAS #23	70.6	53.2	129.7	2.3
MAS #2	70.6	56.2	130.0	1.3
FSX 815	69.8	54.3	128.7	2.0
9223	69.8	53.2	130.0	1.3
VA 07W-415	69.7	54.8	129.0	3.3
25R40	69.6	54.1	129.7	2.7
Mercer Brand VA258	69.5	55.2	130.3	2.0
MAS #4	69.2	57.3	129.0	2.0
MD04W249-11-7	68.9	56.3	129.7	2.3
FSX 820	68.8	56.0	129.3	2.3
Jamestown	68.6	57.2	128.7	3.0
MD04W249-11-12	68.6	56.2	129.0	2.3
Mercer Brand 12W-270	68.0	54.5	130.0	1.0
FSX 870	67.4	56.8	129.0	1.3
SS 5205	67.0	56.3	129.3	2.0
SW 52	67.0	56.0	129.7	1.7
SW 53	66.9	57.3	129.7	2.7
FS 888	66.7	55.9	130.0	1.7
25R32	66.6	54.6	130.0	1.0
USG 3993	66.4	54.0	130.3	1.0
Oakes	66.1	56.3	129.7	1.3
Shirley	65.9	52.6	129.7	3.3
SY 1526	65.8	55.1	129.0	2.0
USG 3770	65.6	55.4	128.0	2.3
Mercer Brand 12V51	65.1	54.7	129.3	2.0
Yorktown	64.6	54.0	130.0	1.7
SY Harrison	64.6	52.0	129.3	4.0
26R41	64.5	53.3	129.7	3.7
USG 3251	64.2	53.5	130.7	3.0
VA 09W-73	63.6	51.9	131.7	1.3
SS 8500	63.5	53.2	129.7	3.0
MAS #26	62.9	53.5	129.7	2.0
MD07W402-104-12-1	62.1	56.2	128.7	2.7
SS EXP 412	62.1	54.7	130.3	2.7
USG 3555	61.4	53.4	130.0	2.7
MAS #6	61.2	52.3	129.3	2.0
Chesapeake	61.2	55.9	129.0	2.7
MD07W402-104-12-3	61.2	56.4	129.0	2.7
SS 8404	60.4	55.1	129.7	4.7
Mercer Brand 12W-296	60.2	52.6	129.3	1.3
MD07W402-104-12-2	60.0	56.4	129.3	3.0
SY 483	59.3	50.4	130.3	2.0
MD07W402-163-12-2	57.3	54.3	129.7	2.7
GA 04570-10E46	50.7	55.0	128.7	5.3
GA 031257-10LE34	50.5	54.3	129.0	6.0
Means	66.3	54.8	129.5	2.4
State Means	71.3	57.6	130.7	2.4
LSD (0.05)	8.6	1.3	0.7	1.0
CV (%)	7.6	1.4	0.3	25.5

Table 5. Maryland State Wheat Variety Performance Trials at Queenstown, MD

Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (inches)
FSX 815	119.3	58.1	124.3	38.3
25R77	117.8	59.7	126.0	37.0
SS 5205	117.5	59.0	122.7	34.0
MAS #23	117.5	57.5	125.3	36.0
USG 3404	116.4	58.2	127.7	38.7
USG 3315	110.9	59.5	125.0	38.7
25R40	110.8	58.7	127.3	34.3
MAS #4	110.6	60.4	126.3	38.7
FSX 820	110.4	59.8	126.7	36.3
USG 3555	110.4	58.1	122.3	34.0
USG 3770	109.2	57.7	120.0	40.3
9223	108.5	58.3	124.7	39.0
SS 8500	107.9	58.6	126.3	43.0
26R41	105.6	58.7	127.0	35.3
USG 3523	105.2	58.3	126.7	38.0
SS 8404	103.8	60.7	124.0	35.7
SW 53	103.7	60.0	123.3	39.7
MAS #7	102.9	58.2	127.3	37.3
Mercer Brand 12V51	101.7	57.5	123.3	35.3
VA 07W-415	101.5	57.7	123.0	40.0
GA 031257-10LE34	100.8	60.2	123.0	35.7
USG 3993	100.5	58.6	127.3	42.0
VA 09W-73	100.5	58.9	125.0	37.7
SW 52	100.1	59.7	124.3	38.3
FSX 870	100.1	60.2	126.3	35.7
SS 8340	99.3	60.5	126.7	37.7
25R32	98.8	59.5	128.0	37.7
SY Harrison	98.4	57.7	126.3	36.0
USG 3251	98.3	58.7	127.3	40.7
MD04W249-11-12	97.9	60.3	123.8	38.8
Oakes	97.7	58.6	127.0	39.7
Shirley	96.8	57.6	126.7	35.3
FS 888	95.8	59.9	125.0	38.7
MAS #2	95.0	59.7	127.3	44.3
MD07W402-163-12-2	94.1	57.5	124.7	34.0
Mercer Brand VA258	94.0	57.4	125.7	41.7
SS 520	94.0	57.2	120.3	38.3
USG 3201	93.3	59.9	127.0	35.7
Yorktown	92.8	58.3	122.7	37.0
SS EXP 412	91.4	59.1	122.3	36.7
USG 3612	91.3	57.5	125.3	37.7
Chesapeake	91.0	59.5	124.3	38.0
MD04W249-11-7	90.9	59.9	124.3	38.3
SY 483	90.4	57.9	127.3	39.3
Mercer Brand 12W-270	88.8	58.6	126.0	42.0
MD07W402-104-12-1	87.8	59.5	122.3	35.7
MAS #6	87.5	56.3	125.7	33.7
MD07W402-104-12-3	86.2	59.5	122.7	39.3
Mercer Brand 12W-296	86.1	56.9	125.7	43.0
MD07W402-104-12-2	85.3	59.9	122.3	37.3
GA 04570-10E46	84.6	60.3	122.7	39.7
MAS #26	83.3	57.3	126.0	43.7
SY 1526	80.5	57.9	124.7	41.7
Jamestown	79.5	60.4	120.7	33.7
Means	99.1	58.8	124.9	38.0
State Means	71.3	57.6	130.7	34.5
LSD (0.05)	19.5	0.8	1.5	2.5
CV (%)	11.9	0.8	0.7	4.1

Yields in boldface are not significantly different from the highest yielding entry.

Table 6. Maryland State Wheat Variety Performance Trials at Queenstown (No-Till), MD

Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)
USG 3555	89.3	58.5	125.3
USG 3404	88.7	57.0	128.7
USG 3770	84.4	58.6	123.0
SW 53	83.7	60.3	126.3
USG 3201	83.6	60.7	128.3
SS 5205	81.3	59.4	125.7
MAS #23	80.7	57.0	127.0
VA 07W-415	79.6	58.2	126.7
25R40	79.6	57.2	129.7
USG 3523	79.4	56.7	129.3
USG 3315	78.5	59.0	128.0
26R41	78.5	58.1	128.3
SS EXP 412	77.9	58.4	126.7
USG 3251	77.7	57.4	130.0
MAS #2	77.4	60.0	129.0
Mercer Brand VA258	76.6	57.2	130.0
MD04W249-11-7	74.7	59.9	127.0
Shirley	74.5	57.1	130.0
MAS #4	74.5	60.7	127.7
25R32	74.4	58.0	129.3
Mercer Brand 12W-270	74.3	58.8	130.3
VA 09W-73	73.8	57.9	130.0
SS 8404	73.6	59.6	127.3
SS 8340	73.2	59.6	127.7
Yorktown	72.9	58.6	127.0
SS 520	72.6	57.9	124.3
MAS #6	72.1	56.6	125.3
Jamestown	71.6	60.3	123.3
FSX 870	71.5	60.3	126.0
SS 8500	71.5	57.4	129.3
SY 1526	71.3	57.6	127.7
FSX 815	71.2	56.9	125.7
Mercer Brand 12V51	71.2	57.6	127.7
FSX 820	71.0	59.3	128.3
GA 04570-10E46	70.3	59.5	124.7
MAS #26	69.9	55.7	128.7
SY Harrison	69.3	56.2	127.0
FS 888	69.3	59.0	128.7
Oakes	69.1	58.8	129.7
SW 52	68.9	58.7	129.0
MD07W402-163-12-2	68.7	58.1	127.3
GA 031257-10LE34	68.7	59.0	126.3
MAS #7	68.7	58.1	129.3
Chesapeake	68.2	58.6	126.0
USG 3993	68.0	58.5	130.7
MD04W249-11-12	67.6	60.3	125.7
MD07W402-104-12-2	67.2	59.2	125.0
USG 3612	67.2	57.0	126.0
9223	65.9	56.6	128.3
Mercer Brand 12W-296	65.6	56.4	129.0
25R77	64.6	58.4	128.0
MD07W402-104-12-1	64.5	59.5	124.7
SY 483	59.7	56.7	130.0
MD07W402-104-12-3	54.1	59.4	125.7
Means	73.0	58.4	127.5
State Means	71.3	57.6	130.7
LSD (0.05)	9.7	0.9	0.6
CV (%)	8.2	0.9	0.6

Yields in boldface are not significantly different from the highest yielding entry.

Table 7. Maryland State Wheat Variety Performance Trials at Clarksville, MD					
Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (inches)	SBWMV (0-9)
9223	82.8	55.2	135.3	38.0	0.0
USG 3404	82.5	55.0	135.7	35.0	0.0
SW 53	80.4	57.3	132.0	34.0	0.0
MAS #4	78.4	57.3	134.7	35.0	1.3
26R41	78.0	54.4	135.3	34.0	0.0
25R32	77.0	56.2	135.0	31.7	0.0
FSX 870	76.7	57.2	134.0	35.0	0.0
25R77	76.7	55.8	133.0	31.7	2.0
MD04W249-11-12	76.4	55.4	131.7	34.0	0.0
SY 1526	76.1	54.2	132.0	35.7	1.3
MAS #6	76.1	53.5	131.7	32.3	0.0
VA 07W-415	76.0	55.1	133.0	36.0	0.0
USG 3201	75.6	57.2	134.7	34.3	0.0
25R40	75.3	55.2	135.3	30.0	3.3
MD04W249-11-7	75.2	56.5	134.0	37.0	1.3
USG 3315	75.2	55.5	134.3	33.0	0.0
FSX 820	74.7	56.3	134.3	34.7	0.0
SS 8340	74.6	55.7	134.3	34.0	0.0
USG 3555	73.9	54.6	132.3	32.0	0.0
MAS #7	73.9	53.6	133.7	33.7	0.0
SS 8404	73.7	56.7	135.3	32.3	0.0
FS 888	73.5	56.7	135.7	35.3	0.0
SS 8500	73.4	55.1	136.3	37.7	0.0
USG 3523	73.2	55.0	134.7	33.7	1.0
SS 5205	73.1	54.5	133.3	31.7	2.0
GA 04570-10E46	73.1	57.3	131.7	35.7	0.0
USG 3251	73.0	56.1	136.0	36.3	1.3
Shirley	72.8	54.1	137.3	31.7	4.0
USG 3770	72.1	55.4	130.7	39.0	0.0
Mercer Brand 12W-270	71.0	56.2	133.3	39.7	0.0
GA 031257-10LE34	71.0	56.9	133.3	33.7	0.0
USG 3993	70.8	57.4	134.0	37.0	0.0
SY Harrison	70.7	54.3	134.3	33.3	1.7
Mercer Brand 12V51	70.4	54.5	134.7	35.0	2.3
Chesapeake	69.8	56.5	134.7	32.0	3.0
SY 483	68.8	52.8	137.0	35.7	2.3
SS EXP 412	67.1	56.4	133.3	33.0	0.0
MAS #26	66.2	54.4	136.7	39.0	6.3
MD07W402-104-12-2	66.1	56.3	134.3	33.3	0.0
SW 52	65.3	56.2	135.3	33.7	0.0
MD07W402-104-12-3	64.8	56.6	135.0	34.7	1.7
Jamestown	63.1	56.4	130.0	31.7	0.0
MD07W402-163-12-2	62.6	53.5	133.3	31.3	1.7
Mercer Brand VA258	61.4	55.0	136.0	38.3	2.0
MAS #2	59.9	55.6	136.7	36.7	2.0
Mercer Brand 12W-296	59.9	54.7	136.3	39.3	4.3
MD07W402-104-12-1	59.5	55.5	134.0	33.7	2.3
FSX 815	53.1	53.4	135.3	34.7	8.0
USG 3612	51.5	52.1	135.3	33.3	8.3
Yorktown	49.5	53.6	137.7	30.0	9.0
Oakes	47.8	57.1	139.0	33.0	8.7
MAS #23	47.0	51.1	136.0	29.7	8.7
VA 09W-73	46.7	56.3	138.7	31.3	8.7
SS 520	41.5	53.4	131.0	33.7	8.3
Means	68.9	55.3	134.5	34.3	2.0
State Means	71.3	57.6	130.7	34.5	2.0
LSD (0.05)	13.7	134.5	1.6	3.5	2.9
CV (%)	12.3	2.1	0.7	6.3	89.5

Yields in boldface are not significantly different from the highest yielding entry.

Table 8. Maryland State Wheat Variety Performance Trials at Keedysville, MD.

Wheat Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (inches)
SW 53	63.6	62.9	137.3	33.7
MAS #23	62.1	59.6	136.3	32.3
SY 1526	61.8	60.0	136.7	36.7
FS 888	60.2	61.3	138.7	35.7
USG 3251	56.4	60.6	140.3	34.7
VA 09W-73	56.1	61.1	139.7	34.3
USG 3404	55.9	59.1	139.3	32.3
26R41	55.1	60.6	139.7	30.7
SW 52	54.9	61.3	138.7	34.0
9223	54.4	60.5	138.3	37.7
MAS #7	54.4	60.0	137.3	35.0
SS 8500	54.0	60.2	140.0	38.3
MAS #26	53.9	60.0	139.0	38.7
USG 3201	53.9	62.1	136.3	34.3
VA 07W-415	53.2	60.2	136.0	35.0
25R40	52.7	60.6	139.3	31.7
SS 5205	52.7	61.0	138.0	30.3
MAS #2	52.2	60.9	140.0	38.7
SS 8340	52.2	62.1	137.7	33.3
MD04W249-11-7	52.0	62.7	138.3	36.7
Mercer Brand VA258	51.8	60.3	140.3	37.0
Mercer Brand 12W-270	51.2	60.7	139.7	33.3
Oakes	51.1	61.9	140.0	33.0
USG 3993	50.9	61.3	140.3	33.3
Yorktown	50.6	60.5	137.7	34.3
USG 3770	50.4	60.5	134.0	33.7
SY 483	50.2	60.1	139.7	36.0
Mercer Brand 12W-296	50.0	60.0	138.7	38.3
FSX 820	49.6	62.0	139.0	34.7
USG 3315	49.5	62.0	140.3	32.7
MAS #4	49.1	62.2	137.7	32.3
Jamestown	48.5	61.8	134.0	31.7
SS 520	48.2	60.4	134.7	35.3
Shirley	47.8	58.8	141.3	30.7
USG 3523	47.4	60.0	138.0	33.0
SS 8404	47.0	63.3	140.7	30.7
25R77	46.7	61.7	137.0	31.7
MD07W402-104-12-3	46.7	62.2	135.3	34.7
GA 04570-10E46	45.7	61.8	135.3	35.3
USG 3555	45.5	59.3	138.0	31.7
USG 3612	45.4	58.7	136.7	34.7
Chesapeake	45.3	61.4	136.3	33.7
MAS #6	45.2	59.1	137.7	29.3
GA 031257-10LE34	45.2	61.7	137.3	32.3
SY Harrison	44.3	59.7	138.7	31.3
MD04W249-11-12	43.7	61.6	137.0	34.3
FSX 870	43.2	61.0	135.7	33.0
Mercer Brand 12V51	43.1	59.0	140.0	30.7
FSX 815	42.6	58.3	137.7	34.3
MD07W402-104-12-2	41.9	62.1	137.3	32.0
SS EXP 412	41.7	61.6	138.7	32.3
25R32	41.5	60.8	138.7	33.0
MD07W402-104-12-1	39.8	61.0	136.3	31.7
MD07W402-163-12-2	39.3	59.3	136.7	29.0
Means	49.9	60.8	138.0	33.7
State Means	71.3	57.6	130.7	34.5
LSD (0.05)	11.6	1.1	2.3	1.9
CV (%)	14.4	1.0	1.1	3.4

Yields in boldface are not significantly different from the highest yielding entry.

Table 9. 2013 Maryland State Barley Variety Performance Trials Averaged Across 4 Environments: Quantico, Queenstown, Clarksville, and Keedysville, MD.

Barley Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (Inches)	Lodging (0-9)
VA 08B-85	103.2	48.3	115.4	30.8	5.1
Thoroughbred	97.5	47.7	120.2	34.8	3.3
MD08-09BF6-7-7	96.9	46.9	119.5	39.2	2.0
FS 950	95.7	46.5	122.4	37.0	1.8
MD06-BCP6-12-9	91.7	47.2	119.3	38.7	4.6
Atlantic	90.6	47.7	116.2	30.3	6.7
Nomini	89.4	43.8	117.6	37.6	3.8
Price	85.8	47.3	118.2	31.9	5.0
FS 501	85.6	44.3	122.2	38.9	3.1
MD02B27-08-16HD	84.0	49.0	116.8	33.3	4.0
VA 08B-109	82.4	45.9	117.3	28.7	7.3
VA07H-31WS*	79.6	58.3	115.7	61.3	3.2
Means	90.9	47.9	118.4	36.9	4.1
LSD (0.05)	9.4	0.9	4.5	19.9	1.7
CV (%)	12.4	2.3	4.7	66.9	42.7

*Hulless

Yields in boldface are not significantly different from the highest yielding entry.

Table 10. Relative Yield of Barley Entries Compared to the Mean Yield of All Entries at Each Location and Throughout the State in 2013.

Barley Entry	State	Quantico	Queenstown	Clarksville	Keedysville
VA 08B-85	113.5	109.6	121.8	114.9	103.4
Thoroughbred	107.2	104.0	109.1	104.8	115.1
MD08-09BF6-7-7	106.6	118.2	101.2	98.7	121.4
FS 950	105.3	112.1	103.3	105.6	104.2
MD06-BCP6-12-9	100.9	115.8	98.5	102.5	86.5
Atlantic	99.7	98.7	99.6	105.2	95.5
Nomini	98.3	*	94.6	102.7	102.2
Price	94.4	94.7	96.3	95.9	91.2
FS 501	94.2	*	100.2	95.3	83.9
MD02B27-08-16HD	92.4	94.5	100.3	91.5	78.2
VA 08B-109	90.7	58.8	92.9	97.5	121.7
VA07H-31WS*	87.5	94.8	82.1	85.6	96.7

*Hulless

Table 11. Two- and Three-Year Averages of Grain Yield and Test Weight of Barley Entries in Maryland, 2011-2013.

Barley Entry	Yield 2- Test Weight		Yield 3- Test Weight 3-	
	year	2-year	year	year
Thoroughbred	99.9	48.3	98.7	48.1
Atlantic	98.9	48.4	NA	NA
Nomini	98.3	44.6	96.8	45.2
Price	97.6	47.9	NA	NA
FS 950	96.5	46.9	98.9	46.5
FS 501	92.5	45.0	89.7	45.1
MD02B27-08-16HD	92.4	49.5	93.2	49.9

Table 12. 2013 Maryland State Barley Variety Performance Trials at Quantico, MD.

Barley Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (Inches)	Lodging (0-9)
MD08-09BF6-7-7	92.7	46.9	120.0	40.0	3.7
MD06-BCP6-12-9	90.8	48.0	110.3	40.0	7.7
FS 950	87.9	46.9	120.0	39.0	4.3
VA 08B-85	85.9	48.0	114.3	29.3	7.3
Thoroughbred	81.5	47.6	120.0	35.7	6.3
Atlantic	77.3	48.3	116.0	29.0	8.3
VA07H-31WS**	74.3	57.6	93.0	37.3	7.0
Price	74.3	46.5	119.0	30.3	7.3
MD02B27-08-16HD	74.1	50.2	116.7	32.3	5.7
VA 08B-109	46.1	44.3	114.0	27.7	8.0
Nomini	*	*	115.0	36.7	*
FS 501	*	*	120.0	39.3	*
Means	78.4	48.5	114.9	34.7	6.6
State Means	90.9	47.9	118.4	36.9	4.1
LSD (0.05)	18.9	2.8	7.8	1.5	1.6
CV (%)	13.7	3.2	4.0	2.5	14.4

*Plots lost due to deer damage.

**Hulless

Yields in boldface are not significantly different from the highest yielding entry.

Table 13. 2013 Maryland State Barley Variety Performance Trials at Queenstown, MD.

Barley Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (Inches)	Lodging (0 9)
VA 08B-85	149.1	46.5	108.0	35.0	8.0
Thoroughbred	133.6	45.2	113.7	39.0	3.3
FS 950	126.4	44.0	115.3	42.0	1.0
MD08-09BF6-7-7	123.9	44.4	109.3	43.3	2.3
MD02B27-08-16HD	122.7	46.0	108.3	36.3	5.7
FS 501	122.7	42.4	114.3	42.3	2.0
Atlantic	121.8	45.1	108.7	33.0	7.3
MD06-BCP6-12-9	120.5	43.5	114.7	43.0	5.7
Price	117.8	46.3	110.3	35.3	5.3
Nomini	115.8	42.3	108.7	42.7	4.0
VA 08B-109	113.7	44.9	108.3	32.7	7.7
VA07H-31WS*	100.5	57.3	116.3	40.7	2.7
Means	122.4	45.7	111.3	38.8	4.6
State Means	90.9	47.9	118.4	36.9	4.1
LSD (0.05)	15.4	1.5	1.1	2.2	3.0
CV (%)	7.4	1.9	0.6	3.4	39.3

*Hulless

Yields in boldface are not significantly different from the highest yielding entry.

Table 14. 2013 Maryland State Barley Variety Performance Trials at Clarksville, MD.

Barley Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (Inches)
VA 08B-85	119.7	48.8	117.7	34.4
FS 950	110.0	47.4	122.3	35.9
Atlantic	109.7	48.2	118.3	33.4
Thoroughbred	109.2	49.0	121.7	33.9
Nomini	107.0	44.3	115.0	37.1
MD06-BCP6-12-9	106.8	48.1	122.0	41.3
MD08-09BF6-7-7	102.9	48.0	121.0	38.4
VA 08B-109	101.6	47.1	116.3	30.9
Price	100.0	47.7	120.0	33.4
FS 501	99.3	45.9	122.0	38.7
MD02B27-08-16HD	95.3	49.9	118.3	34.4
VA07H-31WS*	89.2	58.7	123.7	37.7
Means	104.2	48.6	119.9	35.8
State Means	90.9	47.9	118.4	36.9
LSD (0.05)	13.8	0.9	1.5	5.1
CV (%)	7.8	1.1	0.8	8.5
*Hulless				
Yields in boldface are not significantly different from the highest yielding entry.				

Table 15. 2013 Maryland State Barley Variety Performance Trials at Keedysville, MD.

Barley Entry	Yield (Bu/A)	Test Weight (lbs/Bu)	Heading (Julian)	Height (Inches)	Lodging (0 9)
VA 08B-109	68.4	47.3	130.7	23.7	6.3
MD08-09BF6-7-7	68.2	48.2	127.7	35.0	0.0
Thoroughbred	64.7	48.6	125.3	30.7	0.3
FS 950	58.6	47.6	132.0	31.0	0.0
VA 08B-85	58.1	50.1	121.7	24.3	0.0
Nomini	57.4	44.8	131.7	34.0	1.3
VA07H-31WS*	54.4	59.8	129.7	29.3	0.0
Atlantic	53.7	49.3	121.7	25.7	4.3
Price	51.3	48.7	123.3	28.7	2.3
MD06-BCP6-12-9	48.6	49.3	130.3	30.7	0.3
FS 501	47.1	44.5	132.3	35.3	2.0
MD02B27-08-16HD	43.9	50.0	124.0	30.0	0.7
Means	56.2	49.0	127.5	29.9	1.5
State Means	90.9	47.9	118.4	36.9	4.1
LSD (0.05)	16.5	1.1	11.5	3.1	2.5
CV (%)	17.4	1.4	5.3	6.1	98.9

*Hulless

Yields in boldface are not significantly different from the highest yielding entry.