

Corn Silage Tests in Tennessee

2015

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Variety test results are posted on UT's website at:

<http://varietytrials.tennessee.edu/>
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Acknowledgments

This research was funded by the Tennessee Agricultural Experiment Station and UT Extension with partial funding from participating companies.

We gratefully acknowledge the assistance of the following individuals in conducting these experiments:

Department of Plant Sciences

Dr. Dennis West, Professor and Grains Breeder

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East Tennessee, Knoxville

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County Standard Corn Silage Tests

County

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CORN SILAGE YIELD TESTS

2015

Experimental Procedures

AgResearch and Education Center Tests: Eighteen corn hybrids were evaluated for silage yield and quality in 2015. The tests were conducted at the East Tennessee (Knoxville), Highland Rim (Springfield), and Middle Tennessee (Spring Hill), AgResearch and Education Centers (REC). The plots at all locations consisted of two rows, planted 30 inches apart, 30 feet in length and were replicated three times. Yields presented were adjusted to both dry weight and 65% moisture. The plant populations as well as the planting and harvesting dates are given in Table 1. Plots were harvested by commercial silage harvesters. A sub-sample from each plot of approximately 3 lbs was taken for analysis. Fresh weight and dried weight were recorded on each sample for determination of moisture at harvest. The samples were then ground and analyzed for nutritional content. Silage quality analyses were provided by Cumberland Valley Analytical Services, Inc., Hagerstown, MD. Predictions for milk production per ton and milk production per acre were calculated using the University of Wisconsin Milk2006 program.

County Standard Tests: The County Standard Corn Silage Test was conducted in Washington county in Tennessee with the same 18 hybrids included in the REC tests. Each hybrid was evaluated in a large strip-plot. Plots were planted, sprayed, fertilized, and harvested with the equipment used in the cooperating producer's farming operation. The harvested length was measured for each variety and appropriate harvested area adjustments were made to determine the yield per acre.

Growing Season: The 2015 growing season was characterized by a wet spring which delayed planting. In mid-April, only 6% of the corn crop had been planted, well behind the five year average of 43%. By mid-May, drier weather allowed for a rapid return to planting schedules and 84% of corn had been planted. Persistent rains early in the season made weeds especially problematic in many producer's fields due to an inability to treat fields because of the wet conditions. By mid-August, 84% of the crop rated good to excellent.

Interpretation of Data:

The tables on the following pages have been prepared with the entries listed in order of performance, the highest-yielding entry being listed first. At the bottom of the tables, **LSD** values stand for **Least Significant Difference**. The mean yields of any two varieties being compared must differ by at least the amount shown to be considered different in yielding ability at the 5% level of probability of significance. For example, given that the LSD for a test is 1.3 tons/a and the mean yield of Hybrid A was 9.3 tons/a and the mean yield of Hybrid B was 8.2 tons/a, then the two hybrids are not statistically different in yield because the difference of 1.1 tons/a is less than the minimum of 1.3 tons/a required for them to be significant. Similarly, if the average yield of Hybrid C was 10.6 tons/a then it is significantly higher yielding than both Hybrid B ($10.6 - 8.2 = 2.4$ tons/a > LSD of 1.3) and Hybrid A ($10.6 - 9.3 = 1.3$ tons/a = LSD of 1.3).

Also, the **coefficient of variation (C.V.)** values are shown at the bottom of each table. This value is a measure of the error variability found within each experiment. It is the percentage that the square root of error variance is of the overall test mean yield at that location. For example, a C.V. of 10% indicates that the size of the error variation is about 10% of the size of the test mean. Similarly, a C.V. of 30% indicates that the size of the error variation is nearly one-third as large as the test mean. A goal in conducting each yield test is to keep the C.V. as low as possible, preferably below 20 percent.

Table 1. Location information from AgResearch and Education Centers where corn and wheat silage variety tests were conducted in 2015.

AgResearch and Education Center	Crop	Location	Planting Date	Harvest Date	Soil Type
East Tennessee	corn	Knoxville	05/01/15	08/25/15	Sequatchie Silt Loam
Plateau	corn	Crossville	05/21/15	09/03/15	Lily Loam
Middle Tennessee	corn	Spring Hill	05/08/15	08/28/15	Maury Silt Loam
Highland Rim	corn	Springfield	04/23/15	08/24/15	Mountview Silt Loam
Middle Tennessee	wheat	Spring Hill	11/03/14	05/13/15	Maury Silt Loam

Table 2. Mean yields † of 18 corn hybrids evaluated for silage at three locations in Tennessee during 2015.

Brand	Hybrid §	Dry Weight	65% Moisture	----- Dry Weight Yield -----		
		Avg. Yield ± Std Err. (n=3)	Avg. Yield ± Std Err. (n=3)	Knoxville	Spring Hill	Springfield
-----tons/a-----						
Augusta	7768 (GT/LL/Bt11/BL)	9.8 ± 0.4	28.0 ± 1.1	11.2	7.7	10.5
Terral	REV 28HR20 (RR2/LL/HX1)	9.7 ± 0.4	27.6 ± 1.1	11.9	7.2	10.0
Mycogen	TMF2L825 (RR2/LL/HX1)	9.5 ± 0.4	27.2 ± 1.1	12.4	6.6	9.6
Terral	REV 27HR83 (RR2/LL/HX1)	9.4 ± 0.4	26.7 ± 1.1	12.0	6.5	9.6
Croplan	7927VT3P RIB	9.2 ± 0.4	26.2 ± 1.2	11.8	7.5	8.3
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	8.9 ± 0.4	25.5 ± 1.2	10.2	6.3	10.3
Augusta	6969 (RR/HX)	8.8 ± 0.4	25.2 ± 1.1	10.5	6.4	9.5
Mycogen	X14749S2 (RR2/LL/SSX)	8.8 ± 0.4	25.1 ± 1.1	11.7	7.3	7.3
Mycogen	TMF2L874 (RR2/LL/SSX)	8.8 ± 0.4	25.1 ± 1.2	10.8	6.6	8.9
Masters Choice	6733	8.8 ± 0.4	25.0 ± 1.1	10.1	7.7	8.5
Mycogen	TMF2H747 (RR2/LL/SSX)	8.7 ± 0.4	24.8 ± 1.1	9.9	7.4	8.8
Augusta	6968 (RR/YGCB/RW)	8.6 ± 0.4	24.6 ± 1.1	10.5	7.3	8.0
Augusta	8868 (RR/YGCB/RW)	8.5 ± 0.4	24.4 ± 1.1	11.5	7.0	7.1
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	8.5 ± 0.4	24.3 ± 1.1	11.1	6.5	8.0
Croplan	8750RH (RR/LL/HX-CB)	8.3 ± 0.4	23.8 ± 1.1	10.6	7.1	7.4
Croplan	8621VT3P RIB	8.3 ± 0.4	23.7 ± 1.1	11.1	6.5	7.4
Mycogen	F12707S2 (RR2/LL/SSX)	7.5 ± 0.4	21.5 ± 1.1	8.8	6.0	7.8
Croplan	S5000GT (RR/YGCB/RW)	7.5 ± 0.4	21.4 ± 1.1	9.6	6.5	6.3
Avg. (tons/a)		8.8	25.0	10.9	6.9	8.5
L.S.D._{.05} (tons/a)		1.0	2.9	1.3	0.7	2.9
C.V. (%)		12.1	12.1	6.9	5.8	19.7

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

SSX, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm,

Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

Table 3. Mean yields † and agronomic characteristics of 18 corn hybrids evaluated for silage at three locations in Tennessee during 2015.

Brand	Hybrid §	Dry Weight	65% Moisture	Moisture at harvest	Plant Height	Ear Height
		Avg. Yield ± Std Err. (n=3)	Avg. Yield ± Std Err. (n=3)			
		tons/a	tons/a	%	inches	inches
Augusta	7768 (GT/LL/Bt11/BL)	9.8 ± 0.4	28.0 ± 1.1	52	90	64
Terral	REV 28HR20 (RR2/LL/HX1)	9.7 ± 0.4	27.6 ± 1.1	54	95	66
Mycogen	TMF2L825 (RR2/LL/HX1)	9.5 ± 0.4	27.2 ± 1.1	55	93	64
Terral	REV 27HR83 (RR2/LL/HX1)	9.4 ± 0.4	26.7 ± 1.1	48	91	65
Croplan	7927VT3P RIB	9.2 ± 0.4	26.2 ± 1.2	54	88	65
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	8.9 ± 0.4	25.5 ± 1.2	50	88	61
Augusta	6969 (RR/HX)	8.8 ± 0.4	25.2 ± 1.1	55	96	69
Mycogen	X14749S2 (RR2/LL/SSX)	8.8 ± 0.4	25.1 ± 1.1	54	92	67
Mycogen	TMF2L874 (RR2/LL/SSX)	8.8 ± 0.4	25.1 ± 1.2	59	92	65
Masters Choice	6733	8.8 ± 0.4	25.0 ± 1.1	48	90	65
Mycogen	TMF2H747 (RR2/LL/SSX)	8.7 ± 0.4	24.8 ± 1.1	55	92	64
Augusta	6968 (RR/YGCB/RW)	8.6 ± 0.4	24.6 ± 1.1	52	90	64
Augusta	8868 (RR/YGCB/RW)	8.5 ± 0.4	24.4 ± 1.1	57	91	66
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	8.5 ± 0.4	24.3 ± 1.1	53	90	63
Croplan	8750RH (RR/LL/HX-CB)	8.3 ± 0.4	23.8 ± 1.1	55	90	64
Croplan	8621VT3P RIB	8.3 ± 0.4	23.7 ± 1.1	53	88	63
Mycogen	F12707S2 (RR2/LL/SSX)	7.5 ± 0.4	21.5 ± 1.1	52	85	62
Croplan	S5000GT (RR/YGCB/RW)	7.5 ± 0.4	21.4 ± 1.1	52	88	63
Average		8.8	25.0	53.1	91	64

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

SSX, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm,

Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

Table 4. Mean yields † and feed quality characteristics of 18 corn hybrids evaluated for silage at three locations in Tennessee during 2015.

Brand	Hybrid §	Dry Weight										
		Avg. Yield ± Std Err. (n=3)	Moisture at Harvest (n=3)	Crude Protein (n=3)	NDF (n=3)	30h IV NDFD (n=3)	Starch (n=3)	ADF (n=3)	TDN (n=3)	NEL (n=3)	Milk/ton‡ (n=3)	Milk/acre‡ (n=3)
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcals/lb	lbs/ton	lbs/acre
Augusta	7768 (GT/LL/Bt11/BL)	9.8 ± 0.4	52	7.0	46.3	51.8	29.1	27.8	65.1	0.63	2819	26892
Terral	REV 28HR20 (RR2/LL/HX1)	9.7 ± 0.4	54	6.9	42.7	53.8	34.0	25.1	66.3	0.64	2894	28181
Mycogen	TMF2L825 (RR2/LL/HX1)	9.5 ± 0.4	55	6.5	48.0	48.6	28.7	28.9	63.7	0.62	2748	25841
Terral	REV 27HR83 (RR2/LL/HX1)	9.4 ± 0.4	48	6.4	48.7	51.1	27.9	29.2	63.4	0.61	2697	25211
Croplan	7927VT3P RIB	9.2 ± 0.4	54	7.0	39.7	52.8	36.3	23.3	66.8	0.65	2945	27514
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	8.9 ± 0.4	50	7.5	39.5	54.2	36.1	23.1	67.0	0.65	2941	26280
Augusta	6969 (RR/HX)	8.8 ± 0.4	55	7.3	41.1	51.7	34.3	24.4	66.5	0.65	2927	26529
Mycogen	X14749S2 (RR2/LL/SSX)	8.8 ± 0.4	54	6.9	42.9	51.3	33.2	25.4	65.4	0.63	2849	24971
Mycogen	TMF2L874 (RR2/LL/SSX)	8.8 ± 0.4	59	7.3	48.7	51.8	27.3	28.2	65.7	0.64	2859	24454
Masters Choic	6733	8.8 ± 0.4	48	7.1	41.5	54.6	34.6	24.0	66.5	0.64	2893	25910
Mycogen	TMF2H747 (RR2/LL/SSX)	8.7 ± 0.4	55	6.4	43.2	52.8	33.2	25.8	66.0	0.64	2877	25586
Augusta	6968 (RR/YGCB/RW)	8.6 ± 0.4	52	6.9	40.1	50.3	36.5	23.7	65.8	0.64	2879	24647
Augusta	8868 (RR/YGCB/RW)	8.5 ± 0.4	57	7.0	43.1	48.1	31.6	26.0	63.9	0.62	2759	23977
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	8.5 ± 0.4	53	7.3	37.2	54.1	38.8	21.6	67.7	0.66	3004	26370
Croplan	8750RH (RR/LL/HX-CB)	8.3 ± 0.4	55	6.8	44.8	54.1	31.6	26.1	67.1	0.65	2951	24719
Croplan	8621VT3P RIB	8.3 ± 0.4	53	6.7	43.5	53.1	33.0	25.6	66.5	0.64	2904	24078
Mycogen	F12707S2 (RR2/LL/SSX)	7.5 ± 0.4	52	7.8	42.6	65.0	31.9	24.0	72.3	0.68	3245	23606
Croplan	S5000GT (RR/YGCB/RW)	7.5 ± 0.4	52	6.7	41.7	54.9	34.9	24.3	67.5	0.65	2972	22497

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

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VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

‡ based on University of Wisconsin Milk2006 software program.

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber Digestibility

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

Table 5. Mean yields † and feed quality characteristics of 18 corn hybrids evaluated for silage at three locations in Tennessee during 2015, sorted by brand.

Brand	Hybrid §	Dry Weight	Moisture at Harvest (n=3)	Crude Protein (n=3)	NDF (n=3)	30h IV	Starch (n=3)	ADF (n=3)	TDN (n=3)	NEL (n=3)	Milk/ton‡ (n=3)	Milk/acre‡ (n=3)
		Avg. Yield ± Std Err. (n=3)				NDFD (n=3)						
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcal/lb	lbs/ton	lbs/acre
Augusta	7768 (GT/LL/Bt11/BL)	9.8 ± 0.4	52	7.0	46.3	51.8	29.1	27.8	65.1	0.63	2819	26892
Augusta	6969 (RR/HX)	8.8 ± 0.4	55	7.3	41.1	51.7	34.3	24.4	66.5	0.65	2927	26529
Augusta	6968 (RR/YGCB/RW)	8.6 ± 0.4	52	6.9	40.1	50.3	36.5	23.7	65.8	0.64	2879	24647
Augusta	8868 (RR/YGCB/RW)	8.5 ± 0.4	57	7.0	43.1	48.1	31.6	26.0	63.9	0.62	2759	23977
Croplan	7927VT3P RIB	9.2 ± 0.4	54	7.0	39.7	52.8	36.3	23.3	66.8	0.65	2945	27514
Croplan	8750RH (RR/LL/HX-CB)	8.3 ± 0.4	55	6.8	44.8	54.1	31.6	26.1	67.1	0.65	2951	24719
Croplan	8621VT3P RIB	8.3 ± 0.4	53	6.7	43.5	53.1	33.0	25.6	66.5	0.64	2904	24078
Croplan	S5000GT (RR/YGCB/RW)	7.5 ± 0.4	52	6.7	41.7	54.9	34.9	24.3	67.5	0.65	2972	22497
Masters Choice	6733	8.8 ± 0.4	48	7.1	41.5	54.6	34.6	24.0	66.5	0.64	2893	25910
Mycogen	TMF2L825 (RR2/LL/HX1)	9.5 ± 0.4	55	6.5	48.0	48.6	28.7	28.9	63.7	0.62	2748	25841
Mycogen	X14749S2 (RR2/LL/SSX)	8.8 ± 0.4	54	6.9	42.9	51.3	33.2	25.4	65.4	0.63	2849	24971
Mycogen	TMF2L874 (RR2/LL/SSX)	8.8 ± 0.4	59	7.3	48.7	51.8	27.3	28.2	65.7	0.64	2859	24454
Mycogen	TMF2H747 (RR2/LL/SSX)	8.7 ± 0.4	55	6.4	43.2	52.8	33.2	25.8	66.0	0.64	2877	25586
Mycogen	F12707S2 (RR2/LL/SSX)	7.5 ± 0.4	52	7.8	42.6	65.0	31.9	24.0	72.3	0.68	3245	23606
Terral	REV 28HR20 (RR2/LL/HX1)	9.7 ± 0.4	54	6.9	42.7	53.8	34.0	25.1	66.3	0.64	2894	28181
Terral	REV 27HR83 (RR2/LL/HX1)	9.4 ± 0.4	48	6.4	48.7	51.1	27.9	29.2	63.4	0.61	2697	25211
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	8.9 ± 0.4	50	7.5	39.5	54.2	36.1	23.1	67.0	0.65	2941	26280
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	8.5 ± 0.4	53	7.3	37.2	54.1	38.8	21.6	67.7	0.66	3004	26370

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

‡ based on University of Wisconsin Milk2006 software program.

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber Digestibility

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

Table 6. Mean yields † of five corn hybrids evaluated for silage at three locations in Tennessee for two years (2014-2015).

Brand	Hybrid §	Dry Weight	65% Moisture	----- Dry Weight Yield -----		
		Avg. Yield ± Std Err. (n=6)	Avg. Yield ± Std Err. (n=6)	Knoxville	Spring Hill	Springfield
-----tons/a-----						
Croplan	7927VT3P RIB	8.6 ± 0.3	24.6 ± 0.7	10.7	7.9	7.3
Mycogen	TMF2H747 (RR2/LL/SSX)	8.6 ± 0.3	24.5 ± 0.7	9.6	8.9	7.3
Augusta	8868 (RR/YGCB/RW)	8.6 ± 0.3	24.5 ± 0.7	10.9	7.6	7.2
Croplan	8750RH (RR/LL/HX-CB)	8.1 ± 0.3	23.1 ± 0.7	9.2	7.8	7.2
Croplan	8621VT3P RIB	8.1 ± 0.3	23.0 ± 0.7	10.0	7.4	6.7
Avg. (tons/a)		8.4	24.0	10.1	7.9	7.2
L.S.D._{.05} (tons/a)		0.9	2.6	1.2	1.0	2.4
C.V. (%)		12.2	12.2	7.6	8.7	19.3

Table 7. Mean yields † and agronomic characteristics of five corn hybrids evaluated for silage at three locations in Tennessee for two years (2014-2015).

Brand	Hybrid §	Dry Weight	65% Moisture	Moisture at harvest (n=6)	Plant Height (n=6)	Ear Height (n=6)
		Avg. Yield ± Std Err. (n=6)	Avg. Yield ± Std Err. (n=6)			
		tons/a	tons/a	%	inches	inches
Croplan	7927VT3P RIB	8.6 ± 0.3	24.6 ± 0.7	55	102	54
Mycogen	TMF2H747 (RR2/LL/SSX)	8.6 ± 0.3	24.5 ± 0.7	54	102	55
Augusta	8868 (RR/YGCB/RW)	8.6 ± 0.3	24.5 ± 0.7	56	101	55
Croplan	8750RH (RR/LL/HX-CB)	8.1 ± 0.3	23.1 ± 0.7	57	103	54
Croplan	8621VT3P RIB	8.1 ± 0.3	23.0 ± 0.7	55	99	53
Average		8.4	24.0	55.1	101	54

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

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YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

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SSX, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm,

Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

Table 8. Mean yields † and feed quality characteristics of five corn hybrids evaluated for silage at three locations in Tennessee for two years (2014-2015).

Brand	Hybrid §	Dry Weight										
		Avg. Yield ± Std Err. (n=6)	Moisture at Harvest (n=6)	Crude Protein (n=6)	NDF (n=6)	30h IV NDFD (n=6)	Starch (n=6)	ADF (n=6)	TDN (n=6)	NEL (n=6)	Milk/ton‡ (n=6)	Milk/acre‡ (n=6)
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcal/lb	lbs/ton	lbs/acre
Croplan	7927VT3P RIB	8.6 ± 0.3	55	6.7	42.1	38.1	35.3	24.6	69.3	0.70	2641	23231
Mycogen	TMF2H747 (RR2/LL/SSX)	8.6 ± 0.3	54	6.6	44.1	38.0	33.7	26.3	68.6	0.69	2564	22094
Augusta	8868 (RR/YGCB/RW)	8.6 ± 0.3	56	6.6	43.4	35.5	33.3	25.9	67.8	0.69	2545	22028
Croplan	8750RH (RR/LL/HX-CB)	8.1 ± 0.3	57	6.9	45.7	39.8	31.8	26.5	69.0	0.69	2663	21695
Croplan	8621VT3P RIB	8.1 ± 0.3	55	6.8	45.2	38.0	32.3	26.5	68.4	0.69	2588	20874

Table 9. Mean yields † and feed quality characteristics of five corn hybrids evaluated for silage at three locations in Tennessee for two years (2014-2015), sorted by brand.

Brand	Hybrid §	Dry Weight										
		Avg. Yield ± Std Err. (n=6)	Moisture at Harvest (n=6)	Crude Protein (n=6)	NDF (n=6)	30h IV NDFD (n=6)	Starch (n=6)	ADF (n=6)	TDN (n=6)	NEL (n=6)	Milk/ton‡ (n=6)	Milk/acre‡ (n=6)
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcal/lb	lbs/ton	lbs/acre
Augusta	8868 (RR/YGCB/RW)	8.6 ± 0.3	56	6.6	43.4	35.5	33.3	25.9	67.8	0.69	2545	22028
Croplan	7927VT3P RIB	8.6 ± 0.3	55	6.7	42.1	38.1	35.3	24.6	69.3	0.70	2641	23231
Croplan	8750RH (RR/LL/HX-CB)	8.1 ± 0.3	57	6.9	45.7	39.8	31.8	26.5	69.0	0.69	2663	21695
Croplan	8621VT3P RIB	8.1 ± 0.3	55	6.8	45.2	38.0	32.3	26.5	68.4	0.69	2588	20874
Mycogen	TMF2H747 (RR2/LL/SSX)	8.6 ± 0.3	54	6.6	44.1	38.0	33.7	26.3	68.6	0.69	2564	22094

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

SSX, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm,

Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

‡ based on University of Wisconsin Milk2006 software program.

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber Digestibility

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

COUNTY STANDARD TESTS

Table 10. Mean yields † of 18 corn hybrids evaluated for silage in Washington County Standard Test in Tennessee during 2015.

Brand	Hybrid §	Dry Weight	65% Moisture	Moisture
		Yield (n=1)	Yield (n=1)	at harvest (n=1)
		-----tons/a-----		
				%
Mycogen	TMF2L874 (RR2/LL/SSX)	14.7	42.1	48.5
Mycogen	TMF2L825 (RR2/LL/HX1)	14.7	42.0	47.6
Croplan	8750RH (RR/LL/HX-CB)	14.7	41.9	45.9
Mycogen	X14749VH (RR2/LL/SSX)	14.6	41.8	45.9
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	13.9	39.8	49.2
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	13.4	38.4	48.1
Terral	REV 28HR20 (RR2/LL/HX1)	13.4	38.3	48.4
Mycogen	TMF2H747 (RR2/LL/SSX)	13.4	38.2	50.2
Croplan	8621VT2P RIB	12.5	35.6	49.5
Croplan	7927VT3P RIB	12.3	35.3	51.8
Augusta	7768 (GT/LL/Bt11/BL)	12.3	35.0	51.2
Augusta	6969 (RR/HX)	12.2	34.7	52.7
Augusta	8868 (RR/YGCB/RW)	11.9	34.1	50.1
Masters Choice	6733	11.9	34.0	49.9
Croplan	7087VT3P/781HLV4JXR	11.8	33.7	47.2
Terral	REV 27HR83 (RR2/LL/HX1)	10.7	30.6	55.0
Mycogen	F12707S2 (RR2/LL/SSX)	10.7	30.4	48.0
Augusta	6968 (RR/YGCB/RW)	9.7	27.8	60.3
Avg. (tons/a)		12.7	36.3	50.0

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, R, RR2, R2, GT = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, CRW, RW = contains a gene for rootworm resistance

SSX, SS, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm,

Western corn rootworm, fall armyworm, Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Washington County: Savland Dairy Farm (David Saylor)

Planted: 6-5-15

Harvested: 9-11-15

30 inch row spacing

Table 11. Mean yields † and feed quality characteristics of 18 corn hybrids evaluated for silage in Washington County Standard Test in Tennessee during 2015.

Brand	Hybrid §	Dry Weight	Moisture	Crude	30h IV			ADF	TDN	NEL	Milk/ton‡	Milk/acre‡
		Avg. Yield (n=1)	at Harvest (n=1)	Protein (n=1)	NDF (n=1)	NDFD (n=1)	Starch (n=1)					
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcals/lb	lbs/ton	lbs/acre
Mycogen	TMF2L874 (RR2/LL/SSX)	14.7	48.5	9.0	43.8	52.0	24.9	26.9	64.4	0.61	2725	39895
Mycogen	TMF2L825 (RR2/LL/HX1)	14.7	47.6	7.5	45.4	47.2	28.8	28.0	64.0	0.62	2759	38460
Croplan	8750RH (RR/LL/HX-CB)	14.7	45.9	7.6	49.7	53.7	25.2	29.6	65.9	0.63	2825	37961
Mycogen	X14749VH (RR2/LL/SSX)	14.6	45.9	7.9	41.4	51.9	29.3	25.9	65.1	0.62	2789	33923
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	13.9	49.2	8.4	35.6	52.4	39.1	20.9	67.6	0.65	2992	35249
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	13.4	48.1	8.4	37.8	50.7	38.7	22.1	66.4	0.64	2907	42627
Terral	REV 28HR20 (RR2/LL/HX1)	13.4	48.4	8.1	45.9	50.8	24.6	28.6	63.0	0.60	2633	31464
Mycogen	TMF2H747 (RR2/LL/SSX)	13.4	50.2	7.8	45.5	50.3	29.2	27.5	64.7	0.62	2770	37142
Croplan	8621VT2P RIB	12.5	49.5	7.0	48.5	47.7	26.7	29.5	62.7	0.61	2650	28231
Croplan	7927VT3P RIB	12.3	51.8	7.5	45.7	48.7	29.8	26.9	64.0	0.62	2734	29267
Augusta	7768 (GT/LL/Bt11/BL)	12.3	51.2	7.6	50.1	47.7	22.9	30.7	62.4	0.60	2626	32179
Augusta	6969 (RR/HX)	12.2	52.7	8.4	41.9	52.4	31.6	24.7	66.9	0.64	2930	36492
Augusta	8868 (RR/YGCB/RW)	11.9	50.1	7.7	43.5	49.8	32.0	25.6	65.3	0.63	2826	34886
Masters Choice	6733	11.9	49.9	7.4	45.7	54.5	29.0	27.4	66.7	0.63	2879	34301
Croplan	7087VT3P/781HLV4JXR	11.8	47.2	7.2	47.5	50.1	27.8	28.5	64.2	0.62	2734	40259
Terral	REV 27HR83 (RR2/LL/HX1)	10.7	55.0	8.1	45.6	50.1	30.5	27.4	64.8	0.62	2783	40917
Mycogen	F12707S2 (RR2/LL/SSX)	10.7	48.0	7.9	51.8	69.0	21.5	29.7	74.7	0.68	3290	31999
Augusta	6968 (RR/YGCB/RW)	9.7	60.3	8.4	49.3	42.9	26.8	29.7	61.5	0.61	2615	34983

† all silage yields are adjusted to dry weight basis unless otherwise indicated.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

RR, RR2, R, GT, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

SSX, SmartStax = contains genes for European corn borer, Southwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm,

Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber Digestibility

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

‡ based on University of Wisconsin Milk2006 software program.

Table 12. Mean yields† and agronomic characteristics of 96 soft red winter wheat varieties evaluated for silage at the Middle Tennessee AgResearch and Education Center during 2015.

Brand	Variety	Dry Weight	65% Moisture	Moisture at harvest	Height
		Avg. Yield ± Std Err. (n=1)	Avg. Yield ± Std Err. (n=1)		
		tons/a	tons/a	%	inches
TN Exp.	TN 1504	4.8 ± 0.3	13.7 ± 1.0	55.1	37
Beck's Hybrids	Beck EX 5401	4.7 ± 0.3	13.5 ± 1.0	56.4	36
Dyna-Gro	WX14611	4.6 ± 0.3	13.3 ± 1.0	53.2	37
GA Exp.	GA-03564-12E6	4.6 ± 0.3	13.3 ± 1.0	53.2	36
Armor	Havoc	4.5 ± 0.3	13.0 ± 1.0	54.3	35
TN Exp.	TN 1201	4.4 ± 0.3	12.6 ± 1.0	58.4	37
Progeny	PGX 13-6	4.3 ± 0.3	12.3 ± 1.0	54.4	37
Beck's Hybrids	Beck EX 5307	4.3 ± 0.3	12.2 ± 1.0	54.8	35
Armor	ARX1418	4.3 ± 0.3	12.2 ± 1.0	52.3	35
Croplan by Winfield	9101	4.2 ± 0.3	12.0 ± 1.0	59.8	38
Beck's Hybrids	Beck EX 5315	4.2 ± 0.3	11.9 ± 1.0	55.8	37
USG	3225	4.2 ± 0.3	11.9 ± 1.0	54.5	34
Progeny	410	4.1 ± 0.3	11.8 ± 1.0	55.1	37
AR Exp.	AR00343-5-1	4.1 ± 0.3	11.6 ± 1.0	55.3	36
Armor	Rumble	4.1 ± 0.3	11.6 ± 1.0	56.6	36
KWS Cereals USA	KWS026	4.1 ± 0.3	11.6 ± 1.0	57.2	38
MO	Milton	4.0 ± 0.3	11.5 ± 1.0	61.8	37
USG	3120	4.0 ± 0.3	11.5 ± 1.0	54.7	37
TN Exp.	TN 1502	4.0 ± 0.3	11.4 ± 1.0	58.1	37
USG	3438	3.9 ± 0.3	11.3 ± 1.0	55.7	35
GA Exp.	GA-04417-12E33	3.9 ± 0.3	11.3 ± 1.0	52.3	38
Terral	TV8861	3.9 ± 0.3	11.3 ± 1.0	61.1	37
USG	3251	3.9 ± 0.3	11.2 ± 1.0	56.0	36
Armor	Octane	3.9 ± 0.3	11.2 ± 1.0	53.3	36
Pioneer	25R32	3.9 ± 0.3	11.0 ± 1.0	58.9	36
AR Exp.	AR01040-4-1	3.9 ± 0.3	11.0 ± 1.0	56.9	37
Warren Seed	McKay 120	3.8 ± 0.3	11.0 ± 1.0	60.8	34
Pioneer	XW13T	3.8 ± 0.3	11.0 ± 1.0	60.8	38
Delta Grow	2700	3.8 ± 0.3	10.9 ± 1.0	57.8	36
Terral	TV8848	3.8 ± 0.3	10.9 ± 1.0	60.2	36
Steyer	Hunker	3.8 ± 0.3	10.9 ± 1.0	57.2	37
Armor	ARX1327	3.8 ± 0.3	10.9 ± 1.0	54.5	36
KWS Cereals USA	KWS023	3.8 ± 0.3	10.9 ± 1.0	62.5	40
Pioneer	26R53	3.8 ± 0.3	10.7 ± 1.0	61.5	34
Tennessee Farmers Co-Op	FFR 2407	3.8 ± 0.3	10.7 ± 1.0	61.4	35
Pioneer	XW13W	3.7 ± 0.3	10.7 ± 1.0	59.1	34
Stratton Seed	GO 2056	3.7 ± 0.3	10.7 ± 1.0	57.7	35
Pioneer	26R10	3.7 ± 0.3	10.6 ± 1.0	58.8	37
Progeny	117	3.7 ± 0.3	10.6 ± 1.0	58.0	39
Croplan by Winfield	9203	3.7 ± 0.3	10.6 ± 1.0	60.2	36
Croplan by Winfield	SRW 9415	3.7 ± 0.3	10.5 ± 1.0	57.4	35
Armor	ARX1413	3.7 ± 0.3	10.4 ± 1.0	54.8	36
Limagrain Cereal Seeds	LCS NEWS	3.6 ± 0.3	10.4 ± 1.0	61.2	36
USG	3523	3.6 ± 0.3	10.4 ± 1.0	56.1	35
TN Exp.	TN 1501	3.6 ± 0.3	10.4 ± 1.0	59.4	35
Kentucky Small Grain Growers Assoc.	KY03C-1002-32	3.6 ± 0.3	10.3 ± 1.0	59.5	36
MO	Bess	3.6 ± 0.3	10.3 ± 1.0	60.5	36
Dyna-Gro	WX15733	3.6 ± 0.3	10.3 ± 1.0	56.3	33
USG	3013	3.6 ± 0.3	10.2 ± 1.0	61.7	35
Cache River Valley Seed	DXEX 13-3	3.6 ± 0.3	10.2 ± 1.0	61.2	35
VA Exp.	Hilliard	3.6 ± 0.3	10.2 ± 1.0	61.2	38

Table 12 (continued)

Brand	Variety	Dry Weight	65% Moisture	Moisture at harvest	Height
		Avg. Yield ± Std Err. (n=1)	Avg. Yield ± Std Err. (n=1)		
		tons/a	tons/a	%	inches
Progeny	870	3.6 ± 0.3	10.2 ± 1.0	60.0	39
Limagrain Cereal Seeds	LCS 2141	3.6 ± 0.3	10.1 ± 1.0	62.5	35
Pioneer	25R40	3.6 ± 0.3	10.1 ± 1.0	60.7	37
Dyna-Gro	9171	3.5 ± 0.3	10.1 ± 1.0	53.5	35
USG	3404	3.5 ± 0.3	10.1 ± 1.0	60.2	35
TN Exp.	TN 1102	3.5 ± 0.3	10.1 ± 1.0	56.7	36
Cache River Valley Seed	Dixie McAlister	3.5 ± 0.3	10.0 ± 1.0	62.1	36
Limagrain Cereal Seeds	LCS 0215	3.5 ± 0.3	10.0 ± 1.0	62.3	34
TN Exp.	TN 1503	3.5 ± 0.3	10.0 ± 1.0	56.6	36
KY Exp.	KY03C-1237-05	3.5 ± 0.3	9.9 ± 1.0	63.4	38
VA Exp.	VA10W-21	3.4 ± 0.3	9.8 ± 1.0	61.4	37
Stratton Seed	GO 2057	3.4 ± 0.3	9.8 ± 1.0	60.7	38
Warren Seed	McKenna 315	3.4 ± 0.3	9.8 ± 1.0	62.7	35
AR Exp.	ARGA04510-11LE24	3.4 ± 0.3	9.8 ± 1.0	60.5	35
Dyna-Gro	9522	3.4 ± 0.3	9.7 ± 1.0	56.1	35
USG	3756	3.4 ± 0.3	9.7 ± 1.0	62.3	37
Steyer Seeds	STex145	3.4 ± 0.3	9.7 ± 1.0	57.6	37
GA Exp.	GA-04434-12LE28	3.4 ± 0.3	9.7 ± 1.0	59.5	36
Progeny	357	3.4 ± 0.3	9.7 ± 1.0	60.0	37
TN Exp.	TN 1505	3.4 ± 0.3	9.6 ± 1.0	60.1	36
Dyna-Gro	9591	3.4 ± 0.3	9.6 ± 1.0	54.2	35
Warren Seed	McKay 110	3.4 ± 0.3	9.6 ± 1.0	61.5	36
Dyna-Gro	9223	3.4 ± 0.3	9.6 ± 1.0	59.9	33
Warren Seed	McKenna 325	3.3 ± 0.3	9.6 ± 1.0	61.5	36
Beck's Hybrids	120	3.3 ± 0.3	9.6 ± 1.0	55.1	36
Steyer Seeds	STex142	3.3 ± 0.3	9.6 ± 1.0	60.9	38
Dyna-Gro	9012	3.3 ± 0.3	9.5 ± 1.0	63.1	34
Cache River Valley Seed	Dixie DXEX 15-2	3.3 ± 0.3	9.5 ± 1.0	63.2	35
Cache River Valley Seed	Dixie DXEX 15-1	3.3 ± 0.3	9.5 ± 1.0	61.0	39
USG	3895	3.3 ± 0.3	9.4 ± 1.0	56.8	35
Stratton Seed	GO 2058	3.3 ± 0.3	9.4 ± 1.0	62.2	34
Beck's Hybrids	125	3.2 ± 0.3	9.2 ± 1.0	61.1	37
Steyer Seeds	Morrin	3.2 ± 0.3	9.2 ± 1.0	57.5	38
Croplan by Winfield	SRW 9434	3.2 ± 0.3	9.1 ± 1.0	63.1	37
KWS Cereals USA	KWS028	3.2 ± 0.3	9.0 ± 1.0	61.8	37
Syngenta	SY Harrison	3.2 ± 0.3	9.0 ± 1.0	63.5	36
VA Exp.	VA11W-230	3.1 ± 0.3	9.0 ± 1.0	62.1	37
USG	3833	3.1 ± 0.3	8.8 ± 1.0	63.8	38
Pioneer	26R41	3.0 ± 0.3	8.5 ± 1.0	61.2	34
Tennessee Farmers Co-Op	FFR 2366	3.0 ± 0.3	8.5 ± 1.0	62.7	36
Armor	ARX1332	2.9 ± 0.3	8.3 ± 1.0	61.8	36
KY Exp.	KY03C-1237-10	2.9 ± 0.3	8.2 ± 1.0	62.2	36
Cache River Valley Seed	Dixie Xtreme	2.9 ± 0.3	8.1 ± 1.0	62.8	36
Armor	ARX1325	2.5 ± 0.3	7.3 ± 1.0	66.6	34
Cache River Valley Seed	Dixie Kelsey	2.1 ± 0.3	6.0 ± 1.0	63.4	33
	Average (bu/a)	3.6	10.4	59.0	36.1
	L.S.D._{.05} (bu/a)	0.9	2.5		
	C.V. (%)	14.7	14.7		

† yields reported are dry weight based, feed analysis reported on an "dry weight" basis

Table 13. Mean yields † and feed quality characteristics of 96 soft red winter wheat varieties evaluated for silage at the Middle Tennessee AgResearch and Education Center during 2015.

Brand	Variety	Dry Weight		Crude Protein (n=1)	30h IV NDF (n=1)	Starch (n=1)	ADF (n=1)	TDN (n=1)	NEL (n=1)	Milk/ton [‡] (n=1)	Milk/acre [‡] (n=1)	
		Avg. Yield ± Std Err. (n=1)	Moisture at Harvest (n=1)									
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcals/lb	lbs/ton	lbs/acre
TN Exp.	TN 1504	4.8 ± 0.3	55.1	8.7	70.2	45.1	5.5	46.0	55.5	0.52	2112	10867
Beck's Hybrids	Beck EX 5401	4.7 ± 0.3	56.4	-	-	-	-	-	-	-	-	-
Dyna-Gro	WX14611	4.6 ± 0.3	53.2	9.2	64.4	47.4	7.3	41.7	59.1	0.56	2348	11179
GA Exp.	GA-03564-12E6	4.6 ± 0.3	53.2	8.7	57.9	52.3	4.9	36.7	58.3	0.53	2184	10900
Armor	Havoc	4.5 ± 0.3	54.3	7.8	55.0	57.4	5.2	34.9	58.6	0.51	2117	9152
TN Exp.	TN 1201	4.4 ± 0.3	58.4	9.8	72.0	36.8	3.5	48.4	47.5	0.47	1673	7534
Progeny	PGX 13-6	4.3 ± 0.3	54.4	7.5	54.8	57.9	3.6	35.0	57.2	0.49	2000	9596
Beck's Hybrids	Beck EX 5307	4.3 ± 0.3	54.8	8.8	64.5	49.1	4.1	41.3	59.7	0.56	2358	9804
Armor	ARX1418	4.3 ± 0.3	52.3	8.8	72.5	47.5	4.5	48.0	55.6	0.5	2067.0	8046.0
Croplan by Winfield	9101	4.2 ± 0.3	59.8	8.1	68.5	51.5	2.5	45.4	61.0	0.56	2406	9348
Beck's Hybrids	Beck EX 5315	4.2 ± 0.3	55.8	8.5	71.4	37.4	3.9	47.6	48.7	0.48	1756	7433
USG	3225	4.2 ± 0.3	54.5	15.0	63.9	-	0.9	48.1	30.4	0.30	472	2138
Progeny	410	4.1 ± 0.3	55.1	7.2	59.4	55.3	3.7	38.5	58.4	0.51	2132	9362
AR Exp.	AR00343-5-1	4.1 ± 0.3	55.3	11.2	70.8	48.7	3.4	47.0	57.0	0.52	2150	8224
Armor	Rumble	4.1 ± 0.3	56.6	7.9	52.2	61.0	4.3	32.8	58.5	0.50	2065	8102
KWS Cereals USA	KWS026	4.1 ± 0.3	57.2	8.5	60.6	46.6	2.9	40.3	53.1	0.48	1876	8242
MO	Milton	4.0 ± 0.3	61.8	7.4	55.1	52.9	5.2	35.6	55.9	0.5	1979.0	7932.0
USG	3120	4.0 ± 0.3	54.7	10.3	71.3	42.6	4.7	46.7	52.0	0.49	1893	8097
TN Exp.	TN 1502	4.0 ± 0.3	58.1	8.8	66.6	42.6	5.4	43.8	55.4	0.53	2152	8191
USG	3438	3.9 ± 0.3	55.7	7.7	53.9	59.0	4.1	34.1	57.7	0.49	2027	9035
GA Exp.	GA-04417-12E33	3.9 ± 0.3	52.3	9.7	62.9	46.8	9.4	40.8	58.6	0.55	2315	9922
Terral	TV8861	3.9 ± 0.3	61.1	9.0	61.7	55.9	2.6	39.4	61.9	0.55	2394	9080
USG	3251	3.9 ± 0.3	56.0	7.2	60.0	56.0	2.3	38.7	58.1	0.51	2089	8993
Armor	Octane	3.9 ± 0.3	53.3	8.0	61.1	52.9	4.7	38.8	58.5	0.53	2186	8526
Pioneer	25R32	3.9 ± 0.3	58.9	9.6	71.0	50.0	2.5	46.0	59.4	0.55	2314	8483
AR Exp.	AR01040-4-1	3.9 ± 0.3	56.9	8.7	58.8	56.5	2.4	38.0	59.7	0.53	2216	8410
Warren Seed	McKay 120	3.8 ± 0.3	60.8	8.5	59.9	53.1	3.5	38.8	59.2	0.53	2240	8176
Pioneer	XW13T	3.8 ± 0.3	60.8	9.4	61.1	56.4	3.8	38.7	63.1	0.57	2482	8301
Delta Grow	2700	3.8 ± 0.3	57.8	7.8	55.4	57.1	4.5	34.9	58.3	0.51	2097	7668
Terral	TV8848	3.8 ± 0.3	60.2	7.4	58.6	54.3	4.6	37.3	58.5	0.52	2157	8102
Steyer	Hunker	3.8 ± 0.3	57.2	10.0	66.1	48.1	2.4	43.3	58.9	0.55	2318	10107
Armor	ARX1327	3.8 ± 0.3	54.5	7.9	59.4	54.3	5.1	37.7	59.4	0.53	2234	8177
KWS Cereals USA	KWS023	3.8 ± 0.3	62.5	7.7	72.3	46.6	3.2	48.2	55.6	0.52	2088	6952
Pioneer	26R53	3.8 ± 0.3	61.5	9.6	71.9	2.8	5.1	51.8	36.3	0.39	1045	3547
Tennessee Farmers Co-Op	FFR 2407	3.8 ± 0.3	61.4	10.6	69.9	7.8	2.9	52.0	33.1	0.34	764	3070
Pioneer	XW13W	3.7 ± 0.3	59.1	11.4	67.7	25.2	7.0	47.0	37.9	0.40	1117	3811
Stratton Seed	GO 2056	3.7 ± 0.3	57.7	7.8	56.9	47.7	3.7	38.0	52.6	0.47	1810	7472
Pioneer	26R10	3.7 ± 0.3	58.8	9.8	71.3	39.1	2.5	47.4	49.7	0.48	1790	6477
Progeny	117	3.7 ± 0.3	58.0	8.6	67.0	42.3	6.7	44.2	54.8	0.53	2114	7196
Croplan by Winfield	9203	3.7 ± 0.3	60.2	7.5	56.2	53.0	5.6	36.3	57.0	0.51	2064	7289
Croplan by Winfield	SRW 9415	3.7 ± 0.3	57.4	8.2	53.0	55.2	4.9	33.7	56.0	0.49	1952	7752

Table 13 (continued)

Brand	Variety	Dry Weight		Moisture at Harvest (n=1)	Crude Protein (n=1)	30h IV			NEL (n=1)	Milk/ton [‡] (n=1)	Milk/acre [‡] (n=1)	
		Avg. Yield ± Std Err. (n=1)				NDF (n=1)	NDFD (n=1)	Starch (n=1)				ADF (n=1)
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcal/lb	lbs/ton	lbs/acre
Armor	ARX1413	3.7 ± 0.3	54.8	-	-	-	-	-	-	-	-	-
Limagrain Cereal Seeds	LCS NEWS	3.6 ± 0.3	61.2	6.5	63.9	49.4	2.3	42.1	55.4	0.50	2005	6625
USG	3523	3.6 ± 0.3	56.1	10.1	66.7	45.8	3.5	42.9	58.0	0.55	2292	9323
TN Exp.	TN 1501	3.6 ± 0.3	59.4	8.0	57.2	54.0	6.2	36.3	59.3	0.53	2230	7816
Kentucky Small Grain Growers Assoc.	KY03C-1002-32	3.6 ± 0.3	59.5	7.9	56.2	55.6	5.4	35.4	59.0	0.52	2179	7671
MO	Bess	3.6 ± 0.3	60.5	7.6	57.9	53.3	4.5	37.4	57.3	0.51	2087	7294
Dyna-Gro	WX15733	3.6 ± 0.3	56.3	8.1	63.5	56.3	4.3	39.9	63.9	0.58	2544	9858
USG	3013	3.6 ± 0.3	61.7	8.8	58.9	60.0	3.0	37.2	62.8	0.55	2397	10123
Cache River Valley Seed	DXEX 13-3	3.6 ± 0.3	61.2	7.2	57.9	53.5	6.4	37.1	58.5	0.52	2173	6302
VA Exp.	Hilliard	3.6 ± 0.3	61.2	9.8	64.9	43.4	3.0	44.0	54.0	0.51	2017	6914
Progeny	870	3.6 ± 0.3	60.0	8.3	52.9	58.1	4.9	33.6	58.4	0.51	2098	8284
Limagrain Cereal Seeds	LCS 2141	3.6 ± 0.3	62.5	6.5	56.3	52.7	4.4	36.6	54.6	0.48	1881	6156
Pioneer	25R40	3.6 ± 0.3	60.7	9.2	72.7	40.8	4.1	48.3	50.7	0.49	1837	6066
Dyna-Gro	9171	3.5 ± 0.3	53.5	9.5	65.1	50.2	2.5	41.4	60.8	0.56	2420	8355
USG	3404	3.5 ± 0.3	60.2	10.5	72.5	29.4	4.8	48.8	38.9	0.40	1154	4094
TN Exp.	TN 1102	3.5 ± 0.3	56.7	7.2	57.5	55.8	6.1	36.9	59.5	0.53	2211	7764
Cache River Valley Seed	Dixie McAlister	3.5 ± 0.3	62.1	8.4	64.3	44.4	6.2	41.2	57.5	0.55	2279	7208
Limagrain Cereal Seeds	LCS 0215	3.5 ± 0.3	62.3	8.2	68.6	38.3	6.2	45.4	49.5	0.5	1780.0	5754.0
TN Exp.	TN 1503	3.5 ± 0.3	56.6	8.4	64.4	47.4	6.7	41.8	59.6	0.56	2387	8102
KY Exp.	KY03C-1237-05	3.5 ± 0.3	63.4	7.7	58.2	52.3	4.5	38.4	57.4	0.51	2110	7136
VA Exp.	VA10W-21	3.4 ± 0.3	61.4	9.4	52.7	55.6	3.9	34.6	56.9	0.50	2026	6727
Stratton Seed	GO 2057	3.4 ± 0.3	60.7	7.9	60.8	54.9	4.3	38.1	61.0	0.55	2341	7163
Warren Seed	McKenna 315	3.4 ± 0.3	62.7	8.9	54.5	54.5	5.3	35.3	58.2	0.52	2145	7166
AR Exp.	ARGA04510-11LE24	3.4 ± 0.3	60.5	8.1	66.6	49.2	2.7	42.9	59.0	0.55	2297	7367
Dyna-Gro	9522	3.4 ± 0.3	56.1	-	-	-	-	-	-	-	-	-
USG	3756	3.4 ± 0.3	62.3	8.0	58.9	54.9	4.2	38.4	59.4	0.53	2216	7419
Steyer Seeds	STex145	3.4 ± 0.3	57.6	18.0	58.1		2.8	44.3	35.0	0.34	780	2657
GA Exp.	GA-04434-12LE28	3.4 ± 0.3	59.5	9.0	58.2	58.5	4.7	36.2	63.4	0.56	2474	9251
Progeny	357	3.4 ± 0.3	60.0	8.0	54.7	57.3	6.3	34.7	60.8	0.54	2303	10012
TN Exp.	TN 1505	3.4 ± 0.3	60.1	8.9	68.4	42.8	5.2	44.2	54.7	0.52	2098	8019
Dyna-Gro	9591	3.4 ± 0.3	54.2	7.0	56.1	56.9	5.5	35.5	58.2	0.51	2093	6554
Warren Seed	McKay 110	3.4 ± 0.3	61.5	6.9	60.0	53.9	3.4	38.9	57.1	0.50	2048	6601
Dyna-Gro	9223	3.4 ± 0.3	59.9	10.2	65.9	45.9	5.2	42.8	58.3	0.55	2318	7532
Warren Seed	McKenna 325	3.3 ± 0.3	61.5	10.1	67.7	36.0	4.4	47.0	46.9	0.46	1616	5316
Beck's Hybrids	120	3.3 ± 0.3	55.1	9.4	67.2	44.5	5.3	43.7	56.2	0.53	2177	7198
Steyer Seeds	STex142	3.3 ± 0.3	60.9	7.2	55.5	52.3	5.3	35.8	55.2	0.49	1934	6504
Dyna-Gro	9012	3.3 ± 0.3	63.1	9.2	72.6	41.2	3.7	48.8	50.7	0.48	1831	6135
Cache River Valley Seed	Dixie DXEX 15-2	3.3 ± 0.3	63.2	7.0	59.6	50.4	6.0	38.8	57.0	0.52	2111	6405
Cache River Valley Seed	Dixie DXEX 15-1	3.3 ± 0.3	61.0	6.6	70.0	45.5	2.2	46.3	56.0	0.53	2145	6496
USG	3895	3.3 ± 0.3	56.8	9.7	65.3	46.2	3.7	42.3	57.7	0.54	2262	9173
Stratton Seed	GO 2058	3.3 ± 0.3	62.2	6.9	57.6	52.0	3.3	38.2	54.5	0.48	1878	5987
Beck's Hybrids	125	3.2 ± 0.3	61.1	8.0	69.8	47.6	4.8	44.7	58.5	0.55	2300	8215

Table 13 (continued)

Brand	Variety	Dry Weight	Moisture at Harvest (n=1)	Crude Protein (n=1)	NDF (n=1)	30h IV		ADF (n=1)	TDN (n=1)	NEL (n=1)	Milk/ton [‡] (n=1)	Milk/acre [‡] (n=1)
		Avg. Yield ± Std Err. (n=1)				NDFD (n=1)	Starch (n=1)					
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcal/lb	lbs/ton	lbs/acre
Steyer Seeds	Morrin	3.2 ± 0.3	57.5	7.6	54.1	54.4	4.9	35.2	55.6	0.48	1932	6603
Croplan by Winfield	SRW 9434	3.2 ± 0.3	63.1	7.6	67.7	50.7	3.5	43.5	61.5	0.57	2462	7487
KWS Cereals USA	KWS028	3.2 ± 0.3	61.8	9.3	69.0	49.6	3.4	43.9	60.3	0.56	2393	8195
Syngenta	SY Harrison	3.2 ± 0.3	63.5	7.4	54.9	52.5	5.1	35.6	55.2	0.49	1936	5922
VA Exp.	VA11W-230	3.1 ± 0.3	62.1	8.7	68.1	39.4	2.3	46.5	49.2	0.47	1734	5159
USG	3833	3.1 ± 0.3	63.8	8.2	59.4	58.4	3.0	38.0	61.8	0.54	2342	8054
Pioneer	26R41	3.0 ± 0.3	61.2	8.8	66.8	51.9	4.3	41.5	63.6	0.59	2609	7446
Tennessee Farmers Co-Op	FFR 2366	3.0 ± 0.3	62.7	-	-	-	-	-	-	-	-	-
Armor	ARX1332	2.9 ± 0.3	61.8	8.8	59.8	54.7	5.6	38.1	61.9	0.56	2421	7212
KY Exp.	KY03C-1237-10	2.9 ± 0.3	62.2	13.7	64.9	11.7	5.2	46.4	36.1	0.37	950	2618
Cache River Valley Seed	Dixie Xtreme	2.9 ± 0.3	62.8	6.8	56.1	56.3	4.0	36.4	56.9	0.49	1996	5070
Armor	ARX1325	2.5 ± 0.3	66.6	9.5	60.6	49.4	5.8	38.6	60.1	0.56	2385	4953
Cache River Valley Seed	Dixie Kelsey	2.1 ± 0.3	63.4	8.1	52.9	56.3	5.0	34.2	57.2	0.50	2036	4512

† yields reported are dry weight based, feed analysis reported on an "dry weight" basis

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber Digestibility

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

‡ based on University of Wisconsin Milk2006 software program.

Table 14. Mean yields and agronomic characteristics of 41 soft red winter wheat varieties evaluated for silage at the Middle Tennessee Research and Education Center for two years (2014-2015).

Brand	Variety	Dry Weight	65% Moisture	Moisture at harvest	Height
		Avg. Yield ± Std Err. (n=2)	Avg. Yield ± Std Err. (n=2)		
		tons/a	tons/a	%	inches
Armor	Havoc	3.7 ± 0.2	10.6 ± 0.6	57.0	33
Armor	Octane	3.6 ± 0.2	10.4 ± 0.6	57.0	34
Croplan by Winfield	SRW 9415	3.6 ± 0.2	10.3 ± 0.6	57.1	34
USG	3251	3.6 ± 0.2	10.2 ± 0.6	57.7	33
Steyer	Hunker	3.5 ± 0.2	10.1 ± 0.6	59.0	34
MO	Milton	3.5 ± 0.2	10.0 ± 0.6	60.0	34
Croplan by Winfield	9101	3.5 ± 0.2	10.0 ± 0.6	59.4	35
Cache River Valley Seed	DXEX 13-3	3.5 ± 0.2	9.9 ± 0.6	59.3	32
USG	3120	3.5 ± 0.2	9.9 ± 0.6	57.7	33
Progeny	357	3.5 ± 0.2	9.8 ± 0.6	59.1	34
TN Exp.	TN 1201	3.4 ± 0.2	9.8 ± 0.6	58.8	34
USG	3013	3.4 ± 0.2	9.8 ± 0.6	60.4	33
Cache River Valley Seed	Dixie McAlister	3.4 ± 0.2	9.7 ± 0.6	60.3	34
Warren Seed	McKay 110	3.4 ± 0.2	9.7 ± 0.6	60.7	34
Pioneer	26R53	3.4 ± 0.2	9.7 ± 0.6	59.0	33
Croplan by Winfield	9203	3.4 ± 0.2	9.6 ± 0.6	60.1	34
USG	3438	3.4 ± 0.2	9.6 ± 0.6	56.9	33
USG	3404	3.3 ± 0.2	9.5 ± 0.6	58.8	32
Dyna-Gro	9223	3.3 ± 0.2	9.5 ± 0.6	60.4	32
Pioneer	25R32	3.3 ± 0.2	9.5 ± 0.6	58.2	33
Pioneer	26R10	3.3 ± 0.2	9.5 ± 0.6	59.6	33
Progeny	117	3.3 ± 0.2	9.5 ± 0.6	58.0	35
Terral	TV8848	3.3 ± 0.2	9.3 ± 0.6	60.0	33
Armor	ARX1327	3.2 ± 0.2	9.3 ± 0.6	56.2	33
Croplan by Winfield	SRW 9434	3.2 ± 0.2	9.2 ± 0.6	61.1	33
Cache River Valley Seed	Dixie Xtreme	3.2 ± 0.2	9.2 ± 0.6	60.7	34
Tennessee Farmers Co-Op	FFR 2407	3.2 ± 0.2	9.2 ± 0.6	60.8	32
Dyna-Gro	9012	3.2 ± 0.2	9.2 ± 0.6	58.9	33
MO	Bess	3.2 ± 0.2	9.1 ± 0.6	59.4	33
Terral	TV8861	3.2 ± 0.2	9.1 ± 0.6	60.0	35
Pioneer	26R41	3.1 ± 0.2	9.0 ± 0.6	60.7	32
Progeny	870	3.1 ± 0.2	8.9 ± 0.6	58.9	35
Tennessee Farmers Co-Op	FFR 2366	3.1 ± 0.2	8.9 ± 0.6	61.4	33
TN Exp.	TN 1102	3.1 ± 0.2	8.8 ± 0.6	56.9	34
Dyna-Gro	9171	3.1 ± 0.2	8.8 ± 0.6	56.1	33
USG	3833	3.1 ± 0.2	8.8 ± 0.6	60.6	34
Beck's Hybrids	120	3.1 ± 0.2	8.7 ± 0.6	57.0	34
Beck's Hybrids	125	3.0 ± 0.2	8.6 ± 0.6	59.8	34
Pioneer	25R40	2.9 ± 0.2	8.3 ± 0.6	60.6	33
Armor	ARX1332	2.7 ± 0.2	7.7 ± 0.6	60.5	34
Armor	ARX1325	2.7 ± 0.2	7.7 ± 0.6	63.2	33
Average (bu/a)		3.3	9.4	59.2	33
L.S.D._{.05} (bu/a)		0.7	2.0		
C.V. (%)		14.6	14.6		

Lodging = 1 to 5 scale; where 1 = 95% of plants erect; 2.5 = ~50% of plants leaning at angle ≥ 45;
5 = 95+% of plants leaning at an angle ≥ 45°.

Table 15. Mean yields † and feed quality characteristics of 41 wheat varieties evaluated for silage at the Middle Tennessee Research and Education Center for two years (2014 - 2015).

Brand	Variety	Dry Weight	Moisture at Harvest (n=2)	Crude Protein (n=2)	NDF (n=2)	30h IV	Starch (n=2)	ADF (n=2)	TDN (n=2)	NEL (n=2)	Milk/ton [‡] (n=2)	Milk/acre [‡] (n=2)
		Avg. Yield ± Std Err. (n=2)				NDFD (n=2)						
		tons/a	%	% dm	% dm	% of NDF	% dm	% dm	% dm	Mcals/lb	lbs/ton	lbs/acre
Armor	Havoc	3.7 ± 0.2	57.0	8.0	55.3	58.0	5.0	34.8	57.4	0.50	2059	7749
Armor	Octane	3.6 ± 0.2	57.0	7.9	61.2	55.7	3.8	39.1	58.0	0.52	2140	7677
Croplan by Winfield	SRW 9415	3.6 ± 0.2	57.1	8.8	58.8	49.6	5.1	37.8	54.3	0.50	1971	7377
USG	3251	3.6 ± 0.2	57.7	7.1	59.5	54.3	3.6	37.9	55.6	0.49	1971	7989
Steyer	Hunker	3.5 ± 0.2	59.0	10.0	66.1	48.1	2.4	43.3	58.9	0.55	2318	10107
MO	Milton	3.5 ± 0.2	60.0	7.3	54.8	54.7	5.3	35.2	54.6	0.48	1890	6544
Croplan by Winfield	9101	3.5 ± 0.2	59.4	8.3	67.4	52.2	3.7	43.7	59.9	0.56	2357	8148
Cache River Valley Seed	DXEX 13-3	3.5 ± 0.2	59.3	7.2	56.9	54.0	5.7	36.2	55.6	0.49	1980	6625
USG	3120	3.5 ± 0.2	57.7	8.7	64.1	46.3	7.8	41.2	54.0	0.51	2008	7904
Progeny	357	3.5 ± 0.2	59.1	8.1	55.4	55.9	5.8	35.0	57.7	0.51	2124	8933
TN Exp.	TN 1201	3.4 ± 0.2	58.8	8.9	64.5	47.7	4.8	41.7	52.7	0.49	1906	6766
USG	3013	3.4 ± 0.2	60.4	8.6	64.2	54.4	3.6	41.0	58.7	0.53	2224	8443
Cache River Valley Seed	Dixie McAlister	3.4 ± 0.2	60.3	8.4	64.3	44.4	6.2	41.2	57.5	0.55	2279	7208
Warren Seed	McKay 110	3.4 ± 0.2	60.7	7.1	58.2	55.2	4.1	37.2	55.8	0.49	1972	6443
Pioneer	26R53	3.4 ± 0.2	59.0	9.1	62.9	30.5	5.6	42.8	46.2	0.44	1524	5312
Croplan by Winfield	9203	3.4 ± 0.2	60.1	7.6	55.1	55.3	4.8	35.2	55.3	0.49	1940	6159
USG	3438	3.4 ± 0.2	56.9	7.1	54.8	54.8	6.2	34.4	54.9	0.48	1915	7115
USG	3404	3.3 ± 0.2	58.8	9.1	64.0	40.7	6.1	41.8	46.2	0.44	1527	4688
Dyna-Gro	9223	3.3 ± 0.2	60.4	8.6	63.6	49.7	4.2	41.2	56.2	0.52	2117	6208
Pioneer	25R32	3.3 ± 0.2	58.2	9.6	71.0	50.0	2.5	46.0	59.4	0.55	2314	8483
Pioneer	26R10	3.3 ± 0.2	59.6	8.8	63.6	46.7	3.7	41.3	51.6	0.48	1820	6348
Progeny	117	3.3 ± 0.2	58.0	8.3	61.6	48.1	6.5	40.0	54.5	0.51	2013	7504
Terral	TV8848	3.3 ± 0.2	60.0	8.0	56.9	54.9	5.4	36.0	57.1	0.51	2087	6734
Armor	ARX1327	3.2 ± 0.2	56.2	8.3	57.5	52.7	6.1	36.3	56.5	0.51	2071	6283
Croplan by Winfield	SRW 9434	3.2 ± 0.2	61.1	7.6	61.5	54.0	4.0	39.3	58.1	0.53	2180	6903
Cache River Valley Seed	Dixie Xtreme	3.2 ± 0.2	60.7	7.1	56.5	56.7	4.2	36.4	55.7	0.49	1947	5682
Tennessee Farmers Co-Op	FFR 2407	3.2 ± 0.2	60.8	9.6	63.4	32.9	3.9	43.7	45.3	0.43	1437	4223
Dyna-Gro	9012	3.2 ± 0.2	58.9	9.4	70.7	43.6	4.4	47.1	51.1	0.49	1845	5527
MO	Bess	3.2 ± 0.2	59.4	7.8	57.0	54.0	4.8	36.4	55.6	0.50	1982	6314
Terral	TV8861	3.2 ± 0.2	60.0	8.2	59.3	55.1	3.9	37.7	57.8	0.52	2135	6932
Pioneer	26R41	3.1 ± 0.2	60.7	7.9	61.6	54.0	4.5	38.5	58.8	0.53	2234	7317
Progeny	870	3.1 ± 0.2	58.9	7.5	53.0	55.4	5.8	33.8	54.7	0.48	1885	7265
Tennessee Farmers Co-Op	FFR 2366	3.1 ± 0.2	61.4	6.0	53.5	52.7	3.8	35.4	48.1	0.42	1442	4618
TN Exp.	TN 1102	3.1 ± 0.2	56.9	8.0	57.6	56.5	6.5	36.2	59.2	0.53	2230	7152
Dyna-Gro	9171	3.1 ± 0.2	56.1	8.4	61.6	50.9	3.5	39.3	56.3	0.52	2093	6904
USG	3833	3.1 ± 0.2	60.6	8.1	58.7	57.3	3.5	37.4	58.7	0.52	2164	7137
Beck's Hybrids	120	3.1 ± 0.2	57.0	8.6	59.5	48.6	7.4	38.0	55.3	0.51	2067	6186

Table 15 (continued)

Brand	Variety	Dry Weight		Crude Protein (n=2)	NDF (n=2)	30h IV NDFD (n=2)	Starch (n=2)	ADF (n=2)	TDN (n=2)	NEL (n=2)	Milk/ton [‡] (n=2)	Milk/acre [‡] (n=2)
		Avg. Yield ± Std Err. (n=2)	Moisture at Harvest (n=2)									
Beck's Hybrids	125	3.0 ± 0.2	59.8	7.3	64.9	52.6	4.5	41.2	57.1	0.52	2133	6498
Pioneer	25R40	2.9 ± 0.2	60.6	8.6	62.9	49.3	4.2	40.8	52.4	0.48	1845	4831
Armor	ARX1332	2.7 ± 0.2	60.5	8.3	56.3	55.4	5.7	35.6	57.6	0.51	2120	5923
Armor	ARX1325	2.7 ± 0.2	63.2	8.8	57.6	52.2	6.0	36.5	57.3	0.52	2158	4971

NDF = Neutral Detergent Fiber

30h IV NDFD = Neutral Detergent Fiber NEL = Net Energy for Lactation

ADF = Acid Detergent Fiber

TDN = Total Digestible Nutrients

NEL = Net Energy for Lactation

[‡] based on University of Wisconsin Milk2006 software program.

Table 16. Characteristics, as described by the seed company, of corn silage hybrids evaluated in yield tests in Tennessee during 2015.†

Brand	Hybrid §	Grain Color	Maturity	Herbicide Tolerance	BT Gene	Released or Experimental	Seed Treatment
Augusta	6968 (RR/YGCB/RW)	Y	118	RR	YGCB, RW	R	Cruiser Maxx 250
Augusta	7768 (GT/LL/Bt11/BL)	Y	118	GT, LL	Bt11, BL	R	Cruiser Maxx 250
Augusta	8868 (RR/YGCB/RW)	Y	118	RR	YGCB, RW	R	Cruiser Maxx 250
Augusta	6969 (RR/HX)	Y	119	RR	HX	R	Cruiser Maxx 250
Croplan	7927VT3P RIB	Y	117	RR	YGCB, RW, RIB	R	Accelaron
Croplan	8621VT3P RIB	Y	117	RR	YGCB, RW, RIB	R	Accelaron
Croplan	8750RH (RR/LL/HX-CB)	Y	118	RR, LL	HX-CB	R	Accelaron
Croplan	S5000GT (RR/YGCB/RW)	Y	110	RR	YGCB, RW	R	Accelaron
Mycogen	F12707S2 (RR2/LL/SSX)	Y	115	RR2/LL	SSX	E	CruiserMaxx 1250
Mycogen	TMF2H747 (RR2/LL/SSX)	Y	113	RR2, LL	SSX	R	CruiserMaxx 1250
Mycogen	TMF2H874 (RR2/LL/SSX)	Y	118	RR2/LL	SSX	R	CruiserMaxx 1250
Mycogen	TMF2L825 (RR2/LL/HX1)	Y	117	RR2, LL	HX1	R	CruiserMaxx 1250
Mycogen	X14749S2 (RR2/LL/SSX)	Y	114	RR2/LL	SSX	E	CruiserMaxx 1250
Terral	REV 23BHR55 (RR2/LL/YGCB/HX1)	Y	113	RR2, LL	YGCB, HX1	R	Poncho, Votivo 1250
Terral	REV 25BHR26 (RR2/LL/YGCB/HX1)	Y	115	RR2, LL	YGCB, HX1	R	Poncho, Votivo 1250
Terral	REV 27HR83 (RR2/LL/HX1)	Y	117	RR2, LL	HX1	R	Poncho, Votivo 1250
Terral	REV 28HR20 (RR2/LL/HX1)	Y	118	RR2, LL	HX1	R	Poncho, Votivo 1250
Masters Choice	6733	Y					

† Information on this table provided by the respective seed companies.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

YG, YGCB, Bt, HX, CB, Bt11, BL = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW, CRW = contains a gene for rootworm resistance

R, RR, RR2, R2, GT = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm, and glyphosate resistance

VIP or Viptera = contains genes for corn earworm, black cutworm, dingy cutworm, and stalk borer resistance

SSX, SS, SmartStax = contains genes for European corn borer, Soutwestern corn borer, Northern corn rootworm, Western corn rootworm, fall armyworm, Western bean cutworm, black cutworm, glyphosate, and glufosinate resistance

Table 17. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2015.

Company	Contact	Phone	Email	Web site	Address
Augusta Seed Corporation	Matt Rawley	540-255-5902	matt.rawley@augustaseed.com	www.augustaseed.com	P.O. Box 899, Verona, VA 24482
Croplan Genetics (Winfield)	Andy Shrum	615-388-2800	jashrum@landolakes.com	www.croplangenetics.com	
Mycogen	Tom McDow Mckenzie Clifton	901-495-5137 405-368-3867	TMMcDow@dow.com MDClifton@dow.com	www.mycogen.com	
Terral Seed Inc.	Ricky F. Davis	901-355-2463	rdavis@terralseed.com	www.terralseed.com	Collierville, TN

Table 18. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2014-15.

Company	Contact	Phone	Email	Web site	Address
Armor Seed	Lane Dill	901-233-0274	lanedill@armorseed.com	www.armorseed.com	P.O. Box 9, Waldenburg, AR 72475
Beck's Hybrids		800-937-2325		www.beckshybrids.com	6767 E. 276th St., Atlana, IN 46031
Cache River Valley Seed	Ted Holt	870-477-5427	tedh@crvseed.com	www.crvseed.com	P.O. Box 10, 12470 Hwy 226 E., Cash, AR 72421
Croplan by Winfield	Andy Shrum	615-388-2800	jashrum@landolakes.com	www.winfield.com/Farmer/Croplan	10515 115th St. NW, Thief River Falls, MN 56701
Delta Grow Seed	Lee Hughes	501-842-2572	leehughes19@hotmail.com	www.deltagrow.com	P O Box 219, England, AR 72046
Dyna-Gro	Dewain Riley Todd Theobald	731-223-9876 765-623-1382	dewain.riley@cpsagu.com todd.theobald@cpsagu.com	www.dynagroseed.com	6221 Riverside Dr., Suite 1N, Dublin, OH 43017
University of Georgia	Jerry Johnson	770-228-7345	jjohnson@griffin.uga.edu		UGA, Griffin Campus 1109 Experiment St. Griffin, GA 30223
Kentucky Small Grain Growers Assn.	Adam Andrews	502-974-1121	adam@kycorn.org		PO Box 90, Eastwood, KY 40018
Limagrain Cereal Seeds	Ken McClintock	309-569-0008	ken.mcclintock@limagrain.com	www.limagrain.com	257 E. Hail, Bushnell, IL 61422
University of Missouri	Mary Ann Quade	573-884-7333	quadem@missouri.edu moseed@aol.com		Missouri Crop Improvement 3211 Lemone Columbia, MO 65201
Pioneer Hi-Bred Int.	George Stabler	803-308-1003	george.stabler@pioneer.com	www.pioneer.com	59 Greif Parkway, Suite 200, Deleware, OH 43015
Progeny	Hillary Spain	870-208-6032		www.progenyag.com	1529 Hwy 193, Wynne, AR 72396
Steyer Seeds	Joe Steyer	800-231-4274	joesteyer@yahoo.com	www.steverseeds.com	PO Box 209, Old Fort, OH 44861
Stratton Seed Company	Heath North	800-264-4433	hnorth@strattonseed.com	www.gostrattonseed.com	1530 Hwy 79, South Stuttgart AR 72160
Syngenta	Gary Moore	901-262-4958	gary.m.moore@syngenta.com	www.syngenta.com	7099 Parkbrook Ln., Cordova, TN 38018
Tennessee Farmers Co-Op	Bryan Johnson	615-793-8506	bjohnson@ourcoop.com	www.ourcoop.com	180 Old Nashville Hwy, LaVergne, TN 37086
Terral Seed Inc	Phil Michener Marty Hale	800-551-4852 662-822-8242 318-341-8814	pmichener@terralseed.com mhale@terralseed.com	www.terralseed.com	111 Ellington Dr., Rayville, LA 71269
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu		3421 Joe Johnson Dr, Knoxville, TN 37996-4561

Table 18 (continued)

Company	Contact	Phone	Email	Web site	Address
Unisouth Genetics (USG)	David Fandrich	931-967-3377	fandrichsupply@aol.com	www.usgseed.com	Fandrich Supply Co, Belvidere, TN
	Mark Huffstetler	731-235-2167	huffy1@crunet.com		Huffstetler & Sons Seed Inc, Greenfield, TN
	Trey Hurt	731-836-7574	hurtco@bellsouth.net		Hurt Seed Co. Inc, Halls, TN
	Wes Miller	731-536-6251	wes@obiongrain.com		Obion Grain Co. Inc, Obion, TN
	Billy Sellers	731-538-2990			Sellers Seed, Obion, TN
Virginia Crop Improvement	Tom Hardiman	804-746-4884	rmarkham@vt.edu	www.virginiacrop.org	Virginia Crop Improvement Assoc. 9225 Atlee Branch Lane Mechanicsville, VA 23116
Warren Seed	Lanny Warren	731-234-2921	lanny.warren@charter.net		P.O. Box 10, Woodland Mills, TN 38721