

2019 OZARK EMPIRE FAIR



HAY SHOW

SPRINGFIELD, MISSOURI

**Held in Cooperation with the Custom Laboratory, Inc.
Monett, Missouri
and University of Missouri Extension**

2019 - Hay Show Results Dry Hay Classes

CLASS I - LEGUMES

PLACING	EXHIBITOR	HAY ID	RFQ	RFV
1	Marcia Moreland	Alfalfa	206.72	184
2	Charles Krueger	Alfalfa - (2nd)	198.52	171
3	Glenn & Toni Obermann	Alfalfa - (3rd)	195.79	170
4	Mike Coble	Alfalfa - (2nd)	168.91	150
5	Leslie Parrigon	Alfalfa - (3rd)	156.45	142
6	Andy Kuntz	Alfalfa (2nd)	133.37	105

CLASS II - GRASS (COOL SEASON)

1	Kevin Dotson	Ky31	100.27	86
2	Eric Schnelle	Ky31	94.61	84
3	Kevin Dotson	Ky31	88.96	81
4	Marcia Moreland	Ky31	82.03	83
5	Fire Sweep Ranch	Ky31	80.20	75
6	Wayshire Farms	Ky31	72.61	78
7	Andy Kuntz	Timothy	63.69	69
8	Eric Schnelle	Ky31	63.27	64
9	Wayshire Farms	Ky31	57.47	66

CLASS III - GRASS (WARM SEASON)

1	Gene Cowherd	Bermuda	103.25	90
2	G & J Anderson	Bermuda	101.56	89
3	Brian & Jill Buske	Bermuda	93.56	84

CLASS IV - GRASS - LEGUME

1	Marcia Moreland	WL356 HQ	141.92	133
2	Randy Severson	Alfalfa-Orchardgrass-Timothy	138.20	128
3	Mike Coble	WB56 - Extend	137.20	117
4	Glenn & Toni Obermann	Americas 403 - Crown Royal	131.82	123
5	Fire Sweep Ranch	Ky31-Kenland-Persist	84.81	82
6	Kevin Dotson	Fescue-Red Clover	69.36	68
7	Wayshire Farms	Ky31-Red Clover	66.35	73

CHAMPION:	Marcia Moreland Alfalfa (WL 356 HQ)	RESERVE CHAMPION:	Charles Krueger Alfalfa (Pioneer)
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2019 - Hay Show Results Haylage Classes

CLASS I - LEGUMES				
PLACING	EXHIBITOR	HAY ID	RFQ	RFV
1	Moennig Dairy	WL 358	216.22	184
2	Moennig Dairy	Producers Hybrid	204.33	174

CLASS II - Grass Haylage				
1	Marcia Moreland	<u>Extend</u>	100.53	81

CLASS IV - Grass-Legume Haylage				
1	John Staiger	<u>Americas - Extend</u>	220.04	189

CLASS V - Winter/Summer Annual Grass				
1	Moennig Dairy	MFA Forage Wheat	131.82	116
2	Moennig Dairy	Elbon Rye	134.50	117

CHAMPION:	John Staiger	RESERVE CHAMPION:	Moennig Dairy
	Alfalfa-Orchardgrass		Alfalfa

2019 OZARK EMPIRE FAIR HAY SHOW

The Hay Show gives producers an opportunity to have their hay evaluated, placed in competition and to be displayed at the Ozark Empire Fair. Each entry consists of at least ten representative bales from a field which were sampled by extension personnel using forage samplers. The samples are chemically analyzed by the Custom Laboratory Inc. in Monett.

Beginning in 2017, the lab computes a Relative Forage Quality (RFQ) based on Total Digestible Nutrient (TDN) and Neutral Detergent Fiber to estimate dry matter intake. Final placings are determined using the RFQ with no subjective evaluation. The RFQ was designed for fully mature alfalfa to have a RFQ of 100.

Following are the revised national hay test guidelines adopted by USDA for Market News reporting on alfalfa, alfalfa/mix hay and grass hay. Reporters use the test measurement most prominent in their trade area along with visual characteristics to determine hay quality. Do not use RFQ to develop a ration, use TDN, crude protein, etc.

Table 1: Alfalfa/Mix Hay Testing Guidelines

Quality Designation	Relative Feed Value (RFV*)	Acid Detergent Fiber (ADF)
Supreme	Over 185	Under 27
Premium	170-185	27-29
Good	150-170	29-32
Fair	130-150	32-35
Utility	Under 130	Over 35

Quantitative factors are approximate, and many factors can affect feeding value. Based on 100% dry matter.

*Calculated value based on American Forage and Grasslands Council formula.

*Note: $RFV = (DDM \times DMI) / 1.29$ $DDM = 88.9 - 0.779 \times ADF\%$ $DMI = 120 / NDF$

Table 2: Categories and RFQ Ranges used in the Southeastern Forage Quality System

Quality Designation	Relative Forage Quality Value (RFQ)
Premium	≥ 140
Good	110-139
Fair	90-109
Utility	< 90

Revised Hay Quality Designations:

- Supreme:** Very early maturity, pre bloom, soft fine stemmed, extra leafy. Factors indicative of very high nutritive content. Hay is excellent color and free of damage.
- Premium:** Early maturity, i.e., pre-bloom in legumes and pre head in grass hays, extra leafy and fine stemmed factors indicative of high nutritive content. Hay is green and free of damage.
- Good:** Early to average maturity, i.e., early to mid-bloom in legumes and early head in grass hays, leafy. fine to medium stemmed, free of damage other than slight discoloration.
- Fair:** Late maturity, i.e. mid to late-bloom in legumes, head- in grass hays, moderate or below leaf content and generally coarse stemmed. Hay may show light damage.
- Utility:** Hay in very late maturity, such as mature seedpods in legumes or mature head in grass hays, coarse stemmed. This category could include hay discounted due to excessive damage and heavy weed content or mold. Defects will be identified in market reports when using this category.

Abbreviations Used:

RFV - Relative Feed Value
NEL - Net Energy Lactation
TDN - Total Digestible Nutrients
NDF - Neutral Detergent Fiber
RFQ - Relative Forage Quality

ADF - Acid Detergent Fiber
DMI - Dry Matter Intake
DDM - Digestible Dry Matter
CP - Crude Protein

YEAR BY YEAR AVERAGES

CLASS I - LEGUMES

Year	Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
1985	23		137.6	-	33.1	20.4	.64	62.8	1.35	.31
1986	40		148.1	-	28.5	21.9	.69	67.8	1.43	.32
1987	34		128.3	45.0	34.3	21.5	.62	61.5	1.41	.31
1988	23		144.9	40.8	27.5	21.2	.69	67.8	1.43	.27
1989	24		133.1	46.1	30.5	21.2	.65	64.6	1.39	.29
1990	12		126.2	47.2	33.3	20.8	.62	61.6	1.43	.32
1991	21		132.8	45.9	31.7	20.9	.64	63.4	1.51	.26
1992	5		155.0	40.8	28.4	18.7	.68	66.9	0.97	.24
1993	6		129.8	45.0	34.4	18.6	.61	60.5	1.30	.33
1994	24		135.1	45.0	31.8	18.3	.64	63.2	1.35	.28
1995	7		143.2	41.9	31.5	20.0	.64	63.6		
1996	13		148.3	41.3	30.5	20.8	.65	64.5		
1997	11		166.0	39.5	27.4	21.9	.69	67.9		
1998	14		158.5	39.4	29.1	22.9	.67	66.0		
1999	8		164.4	38.3	27.6	22.7	.69	67.7		
2000	16		154.4	40.0	29.4	22.2	.67	65.8		
2001	15		165.2	40.5	28.3	21.7	.68	67.0		
2002	8		147.9	41.7	30.7	22.2	.65	64.4		
2003	10		152.3	39.5	32.7	20.4	.63	62.3		
2004	7		155.3	38.4	32.7	21.5	.63	62.4		
2005	6		173.8	36.4	29.1	21.3	.68	66.1		
2006	6		170.0	36.4	29.1	21.3	.68	65.2		
2008	3		132.0	42.7	36.4	16.7	.58	58.0		
2009	10		150.0	40.0	33.3	19.9	.62	61.4		
2010	9		166.0	37.6	31.2	21.4	.65	64.1		
2011	8		177.0	36.6	30.7	20.9	.66	64.4		
2012	16		182.0	35.1	28.4	20.3	.69	66.9		
2013	8		157.0	38.6	32.4	21.2	.64	62.7		
2014	10		195.0	27.4	32.6	22.5	.70	67.2		
2015	7		174.0	35.8	30.7	22.3	.66	64.5		
2016	11		161.0	37.7	31.6	21.6	.64	63.2		
2017	6	197.0	174.0	35.7	30.0	22.3	.67	65.2		
2018	13	178.4	155.0	39.0	31.9	21.0	.64	63.2		
2019	6	176.6	154.0	39.0	33.5	21.0	0.62	61.6		

YEAR BY YEAR AVERAGES

CLASS II - GRASS (Cool Season)

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
1985	19				37.0	12.5	.56	56.5	.51	.27
1986	23				36.9	12.2	.56	57.3	.47	.27
1987	18		83.3	67.8	40.4	13.0	.51	53.0	.47	.31
1988	15		88.2	67.5	36.5	11.1	.59	58.5	.38	.27
1989	14		86.4	66.8	35.0	14.0	.60	60.1	.54	.30
1990	11		81.0	68.4	38.6	13.6	.56	56.6	.56	.32
1991	7		89.6	64.3	35.1	14.6	.56	60.2	.56	.43
1992	11		95.1	61.4	34.5	14.4	.61	60.7	.35	.33
1993	12		83.1	66.5	38.3	12.0	.57	57.1	.44	.34
1994	14		88.4	64.9	36.0	11.4	.59	59.3	.39	.26
1995	7		93.1	61.0	37.1	12.2	.58	58.2		
1996	11		88.0	63.2	38.5	11.7	.56	56.9		
1997	6		99.3	60.8	38.4	14.8	.60	60.0		
1998	5		86.1	65.8	37.9	14.6	.57	57.4		
1999	3		81.8	67.2	39.5	14.8	.56	55.9		
2000	5		86.4	65.1	36.8	13.0	.58	58.5		
2001	8		97.1	59.9	35.7	14.8	.60	59.6		
2002	4		82.5	67.2	38.3	12.5	.60	57.1		
2003	9		85.6	62.4	41.1	10.7	.54	54.0		
2004	4		84.0	63.5	40.4	11.2	.55	55.0		
2005	10		95.4	58.6	37.1	11.8	.58	58.7		
2006	7		93.0	54.2	35.2	11.3	.52	52.2		
2007	5		93.0	59.2	38.4	11.4	.57	57.0		
2008	6		86.0	62.0	41.2	11.0	.50	54.1		
2009	8		95.0	58.5	37.4	14.1	.57	57.1		
2010	7		93.0	60.1	38.0	11.6	.56	56.6		
2011	3		79.0	64.9	43.2	8.9	.52	52.3		
2012	7		96.0	58.2	37.8	11.5	.57	56.8		
2013	4		76.0	67.4	43.9	10.3	.51	51.7		
2014	3		95.0	59.0	37.5	13.7	.57	57.0		
2015	6		90.0	61.1	39.0	13.8	.56	55.8		
2016	4		91.0	61.3	38.0	13.4	.56	56.6		
2017	8	101.0	93.0	100.0	32.6	10.7	.50	50.1		
2018	7	96.6	90.0	60.8	39.2	12.5	0.6	55.6		
2019	9	78.1	76.0	67.7	43.3	10.2	0.52	52.3		

YEAR BY YEAR AVERAGES

CLASS III - GRASS (Warm Season)

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
1988	2		84.7	70.1	34.9	7.9	.60	60.3	.28	.17
1989	2		66.9	78.0	42.2	7.8	.53	53.3	.26	.18
1990	5		77.0	71.4	38.4	8.3	.56	57.0	.43	.22
1991	7		73.4	72.5	41.2	8.2	.53	54.3	.33	.16
1992	2		76.5	70.8	39.5	9.7	.55	56.0	.31	.21
1993	1		74.8	73.9	38.9	11.5	.56	56.5	.56	.37
1994	7		75.3	72.7	38.8	8.4	.56	56.4	.33	.23
1995	4		80.7	67.5	39.0	10.0	.56	56.4		
1996	3		84.0	65.1	39.1	9.8	.56	56.3		
1997	2		92.3	61.0	37.7	14.0	.58	57.6		
1998	2		83.4	67.8	36.2	11.7	.59	59.1		
1999	4		83.0	68.0	40.3	12.6	.55	55.2		
2000	1		81.5	72.8	32.2	18.6	.63	60.5		
2001	1		89.7	67.9	30.1	12.8	.66	65.0		
2002	4		92.0	66.3	30.1	18.1	.66	65.0		
2003	2		109.5	56.0	30.1	19.5	.64	63.1		
2004	1		91.0	60.9	38.1	12.2	.57	57.3		
2005	3		104.0	56.8	32.3	17.0	.64	62.8		
2006	5		107.0	55.7	32.8	15.6	.63	62.4		
2007	4		95.0	59.5	36.7	13.2	.59	58.6		
2008	5		96.0	60.2	35.1	11.1	.60	59.7		
2009	3		113.0	52.6	33.2	15.9	.61	52.6		
2010	2		97.0	60.2	33.7	14.8	.61	60.2		
2011	1		115.0	53.0	30.0	18.7	.64	63.3		
2012	5		99.0	60.0	32.4	15.2	.62	61.3		
2013	1		100.0	57.7	34.1	12.9	.60	59.8		
2014	1		106.0	54.6	34.2	14.7	.60	59.7		
2015	2		95.0	59.6	36.0	12.1	.59	58.3		
2017	2	107.0	93.0	60.2	37.5	12.3	.57	57.0		
2018	2	127.3	107.0	55.6	32.9	14.9	.62	60.8		
2019	3	99.5	88.0	63.5	37.4	12.9	.57	63.5		

YEAR BY YEAR AVERAGES

CLASS IV - LEGUME-GRASS

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
1985	41				37.1	16.6	.58	58.2	1.02	.30
1986	59				32.3	19.3	.64	63.4	1.18	.32
1987	27		109.0	54.0	38.2	18.7	.56	56.7	1.17	.30
1988	25		135.3	45.4	29.4	19.0	.64	63.3	1.13	.27
1989	30		121.5	50.2	31.0	20.4	.63	62.5	1.20	.31
1990	27		119.7	49.2	33.6	20.0	.61	60.4	1.39	.34
1991	38		123.9	48.8	32.3	19.6	.62	61.3	1.36	.28
1992	11		108.5	55.0	35.7	16.5	.58	58.5	0.71	.29
1993	13		109.6	53.6	35.1	17.6	.59	59.0	0.98	.34
1994	26		109.0	55.2	34.3	15.2	.60	59.6	1.08	.35
1995	12		106.7	55.0	36.1	16.0	.58	58.2		
1996	21		134.6	46.2	31.4	18.2	.62	62.3		
1997	10		133.7	46.5	31.3	17.6	.62	62.1		
1998	20		136.2	45.6	31.0	20.2	.63	62.5		
1999	11		114.2	44.6	30.0	18.5	.55	55.3		
2000	14		125.3	47.6	33.4	19.4	.61	60.5		
2001	6		136.8	44.2	31.6	18.8	.62	61.9		
2002	8		117.8	51.1	33.5	18.0	.60	60.4		
2003	9		128.1	45.4	34.7	18.6	.60	59.3		
2004	6		125.5	45.6	36.2	18.2	.58	58.1		
2005	10		123.9	47.2	35.1	17.1	.59	59.0		
2006	7		134.0	44.7	33.2	18.0	.61	60.6		
2007	7		116.0	48.2	37.7	16.5	.57	57.5		
2008	4		94.0	57.1	42.7	12.0	.52	52.7		
2009	13		127.0	46.8	34.7	16.8	.60	59.3		
2010	7		136.0	44.1	32.7	18.3	.62	61.5		
2011	9		123.0	47.6	35.9	17.5	.59	58.4		
2012	8		140.0	43.8	33.4	18.7	.61	60.4		
2013	5		130.0	44.5	34.8	19.2	.60	59.3		
2014	2		128.0	44.8	35.5	17.9	.59	58.7		
2015	5		107.0	53.2	37.2	18.3	.57	57.3		
2016	3		115.0	48.8	34.6	15.0	.57	56.8		
2017	4	144.0	116.0	49.7	35.5	15.7	.59	58.7		
2018	7	158.9	117.0	49.5	35.2	17.2	.59	59.0		
2019	7	110.0	103.0	56.2	37.9	15.3	.57	57.1		

YEAR BY YEAR AVERAGES

CLASS V - SUMMER/WINTER ANNUAL GRASS

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
1989	2	91.1	63.0	32.9	16.7	.63	62.3	.73	.31
1990	0	--	--	--	--	--	--	--	--
1991	1	83.8	65.8	36.0	14.5	.57	64.0	.47	.45
1992	2	95.7	60.4	36.0	14.3	.59	59.3	.44	.32
1993	2	82.5	67.0	37.8	9.3	.57	60.7	.57	30
1994	1	82.0	65.8	39.6	10.4	.55	55.8	.30	.28
1995	1	91.9	58.9	39.4	15.3	.55	56.0		
1996	3	96.6	59.8	34.7	12.9	.61	60.5		
1997	1	103.8	55.9	34.1	6.7	.61	61.2		
1998	0								
1999	2	73.5	71.0	42.3	9.7	.52	53.2		
2000	2	104.3	56.4	33.2	11.4	.62	62.0		
2001	6	86.7	63.6	38.4	12.7	.57	57.0		
2002	1	104.4	54.8	35.2	8.1	.60	60.1		
2003	3	97.3	56.3	39.4	10.9	.55	60.1		
2004	1	74.0	68.3	44.5	7.8	.50	51.1		
2005	1	103.0	55.6	35.4	16.7	.60	59.9		
2007	5	90.0	60.0	39.7	11.0	.56	55.7		
2009	2	92.0	60.0	38.9	9.6	.56	55.9		
2010	1	89.0	62.6	37.3	12.9	.57	57.1		
2013	1	88.0	59.8	41.2	11.4	.53	54.0		
2014	1	124.0	50.2	28.3	11.4	.66	64.7		

CLASS XI - LARGE PACKAGE - Legume

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2004	2	119.5	46.5	38.1	16.7	.56	65.3		
2007	2	134.0	42.9	35.4	19.8	.59	58.8		
2012	1	189.0	33.3	27.1	20.3	.70	68.3		
2013	2	158.0	40.2	33.8	22.6	.61	62.1		

YEAR BY YEAR AVERAGES

CLASS XII - LARGE PACKAGE - Cool Season Grass

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2002	1	82.8	63.8	41.2	9.4	.53	54.3		
2003	1	101.0	56.0	36.2	12.1	.58	56.0		
2004	1	90.0	59.9	40.1	11.2	.55	55.3		
2005	1	73.0	70.0	43.4	7.9	.51	52.2		
2006	4	87.0	62.2	40.0	12.7	.56	55.5		
2007	2	95.0	58.3	39.3	11.7	.56	56.1		
2009	2	85.0	63.4	40.3	10.4	.54	54.7		
2010	1	87.0	62.7	38.8	12.7	.56	56.0		
2011	3	86.0	63.3	39.2	12.1	.55	55.6		
2012	3	79.0	66.6	41.7	10.7	.53	53.5		
2013	3	79.0	65.8	42.5	11.8	.52	52.9		
2014	2	88.0	62.0	39.2	15.1	.55	55.7		

CLASS XIII - LARGE PACKAGE - Warm Season Grass

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2003	1	87.0	59.2	42.7	8.2	.52	52.7		
2007	1	121.0	46.9	35.6	13.3	.60	59.7		
2008	1	71.0	71.4	44.5	7.7	.50	51.2		

CLASS XIV - LARGE PACKAGE - Grass Legume

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2003	1	122.0	48.3	32.9	19.3	.62	60.9		
2004	1	87.0	61.5	40.7	13.6	.54	54.4		
2005	1	99.0	55.5	38.6	10.7	.56	56.1		
2007	1	85.0	61.9	41.4	10.6	.53	53.8		
2009	4	116.0	49.5	35.3	14.7	.59	58.9		
2010	3	123.0	46.4	36.1	18.4	.58	58.2		
2011	4	89.0	61.0	40.1	11.4	.55	54.9		
2012	3	107.0	50.7	39.1	13.9	.56	55.7		
2013	1	77.0	64.7	45.5	9.7	.49	50.4		
2014	4	102.0	55.2	36.8	14.1	.58	57.6		

CLASS XV - LG PACKAGE - Summer/Winter Annual Grass

Year	# of Entries	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2009	1	87.0	61.0	40.7	10.2	.54	54.4		
2010	1	81.0	64.2	41.9	10.6	.53	53.4		
2012	1	91.0	61.7	36.4	13.0	.58	57.9		

YEAR BY YEAR AVERAGES - HAYLAGE

CLASS I - LEGUMES

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
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2017	6	137.0	139.0	41.6	35.8	20.2	.60	59.3
2018	3	164.9	152.0	39.5	31.3	21.2	.65	63.8
2019	2	210.3	179.0	34.8	28.5	22.2	.67	66.8

CLASS II - GRASS

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2019	1	100.5	81.0	65.4	41.3	11.2	.53	53.9		

CLASS IV - LEGUME-GRASS

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2017	1	118.0	110.0	50.9	37.0	15.2	.57	57.4		
2019	1	220.0	189.0	34.1	25.1	22.3	.69	67.2		

CLASS V - SUMMER/WINTER ANNUAL GRASS

Year	# of Entries	RFQ	RFV	NDF	ADF	CP	NEL	TDN	Ca	P
2017	2	109.0	99.0	58.8	36.1	17.8	.59	58.2		
2018	2	151.2	111.0	54.5	30.8	18.8	.63	62.6		
2019	2	133.2	117.0	50.5	32.7	16.0	.61	60.1		

Hay Classes - 2019

CLASS I - LEGUMES										
Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Marcia Moreland	Crane	Alfalfa - (1st Cutting) (WL 356 HQ)	4/19	206.72	184	27.74	34.10	0.69	67.60	22.5
Charles Krueger	Verona	Alfalfa - (2nd Cutting) (Pioneer)	6/10	198.52	171	30.14	35.69	0.66	65.04	25.8
Glenn & Toni Obermann	Monett	Alfalfa - (3rd Cutting) (Blend)	7/16	195.79	170	32.04	35.07	0.64	63.01	22.4
Mike Coble	Aldrich	Alfalfa - (2nd Cutting) (WL356)	6/4	168.91	150	34.29	38.62	0.61	60.62	19.8
Leslie Parrigon	Stotts City	Alfalfa - (3rd Cutting) (WL341 HVX RR)	7/17	156.45	142	35.33	40.29	0.60	59.51	19.0
Andy Kuntz	Springfield	Alfalfa - (2nd Cutting) (Unknown)	6/24	133.37	105	41.47	50.32	0.53	53.74	16.3
Average 6 -- Entries				176.63	154	33.50	39.02	0.62	61.59	21.0

CLASS II - GRASS (Cool Season)										
Name	Address	Type	Date							
			Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Kevin Dotson	Billings	Fescue (Ky 31)	5/14	100.27	86	39.90	62.68	0.55	55.04	12.3
Eric Schnelle	Lockwood	Fescue (Ky31)	5/15	94.61	84	39.06	64.92	0.56	55.73	11.1
Kevin Dotson	Billings	Fescue (Ky 31)	5/30	88.96	81	39.86	66.05	0.55	55.07	12.6
Marcia Moreland	Crane	Fescue (Ky31)	5/29	82.03	83	43.46	61.41	0.51	52.10	10.7
Fire Sweep Ranch	Verona	Fescue (Ky31)	5/14	80.20	75	43.78	67.88	0.51	51.84	12.6
Wayshire Farms	Lockwood	Fescue (Ky31)	6/20	72.61	78	37.20	71.52	0.57	57.27	9.7
Andy Kuntz	Springfield	Timothy (Unknown)	6/19	63.69	69	46.24	71.33	0.49	49.80	8.4
Eric Schnelle	Lockwood	Fescue (Ky31)	7/9	63.27	64	52.40	70.26	0.43	44.70	7.7
Wayshire Farms	Lockwood	Fescue (Ky31)	6/3	57.47	66	47.40	73.49	0.47	48.85	6.5
Average 9 -- Entries				78.12	76	43.26	67.73	0.52	52.27	10.2

CLASS III - GRASS (Warm Season)

Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Gene Cowherd	Purdy	Bermudagrass (Wrangler)	6/11	103.25	90	34.37	64.21	0.60	59.60	11.9
G & J Anderson	Seligman	Bermudagrass (2nd Cutting) (Midland 99)	7/10	101.56	89	37.46	62.69	0.57	57.05	13.6
Brian & Jill Buske	Anderson	Bermudagrass (Unknown)	6/5	93.56	84	40.44	63.58	0.54	54.59	13.2
Average 3 - Entries				99.46	88	37.42	63.49	0.57	57.08	12.9

CLASS IV - GRASS - LEGUME

Name	Address	Type	Date		RFQ	RFV	ADF	NDF	NEL	TDN	CP
			Cut								
Marcia Moreland	Crane	Alfalfa & Cereal Rye (WL356 HQ)	5/29		141.92	133	34.87	43.15	0.60	60.01	21.7
Randy Severson	Mt. Vernon	Alfalfa - Orchardgrass - Timothy	7/10		138.20	128	34.81	44.97	0.61	60.06	19.8
Mike Coble	Aldrich	Alfalfa-Orchardgrass (WB56 & Extend)	6/4		137.20	117	31.26	51.34	0.63	62.17	17.4
Glenn & Toni Obermann	Monett	Alfalfa - Orchardgrass (Americas 403 - Crown Royal)	7/16		131.82	123	33.44	47.53	0.62	61.52	15.7
Fire Sweep Ranch	Verona	Fescue-OG-Red Clover (Ky31-Kenland-Persist)	5/14		84.81	82	40.16	65.20	0.54	54.82	13.2
Kevin Dotson	Billings	Fescue - Red Clover (Ky31)	5/28		69.36	68	46.40	72.21	0.48	49.67	10.7
Wayshire Farms	Lockwood	Fescue - Red Clover (Ky31)	6/3		66.35	73	44.59	68.89	0.50	51.17	8.6
Average 7 -- Entries					109.95	103	37.93	56.18	0.57	57.06	15.3

HAYLAGE CLASSES - 2019

CLASS I - LEGUMES										
Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Moennig Dairy	Pierce City	Alfalfa (WL 358)	6/10	216.22	184	27.45	34.22	0.70	67.91	22.3
Moennig Dairy	Pierce City	Alfalfa (Producers Hybrid)	6/10	204.33	174	29.50	35.34	0.67	65.72	22.0
Average 2 -- Entries				210.28	179	28.48	34.78	0.69	66.82	22.2

CLASS II - Grass - Haylage										
Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Marcia Moreland	Crane	Orchardgrass (Extend)	4/19	100.53	81	41.27	65.38	0.53	53.91	11.2
Average 1 - Entries				100.53	81	41.27	65.38	0.53	53.91	11.2

CLASS IV - Grass-Legume - Haylage										
Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
John Staiger	Billings	Alfalfa - Orchardgrass (Americas - Extend)	4/15	220.04	189	25.14	34.08	0.69	67.22	22.3
Average 1 - Entries				220.04	189	25.14	34.08	0.69	67.22	22.3

CLASS V - ANNUALS-WINTER/SUMMER

Name	Address	Type	Date Cut	RFQ	RFV	ADF	NDF	NEL	TDN	CP
Moennig Dairy		Rye	4/8	134.50	117	33.74	49.66	0.61	60.12	16.6
	Pierce City	(Elbon)								
Moennig Dairy		Wheat	4/19	131.82	116	31.55	51.39	0.63	61.93	15.3
	Pierce City	(MFA Forage Wheat)								
Average 2 - Entries				133.16	117	32.65	50.53	0.62	61.03	16.0

Abbreviations Used:**RFV - Relative Feed Value****NEL - Net Energy Lactation****TDN - Total Digestible Nutrients****NDF - Neutral Detergent Fiber****ADF - Acid Detergent Fiber****DMI - Dry Matter Intake****DDM - Digestible Dry Matter****RFQ - Relative Forage Quality****Ca - Calcium****P - Phosphorus****CP - Crude Protein**