



920-261-0446  
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## Feed Analysis Report

Representative: \_\_\_\_\_

1 Galusha Wheaton Grass

Dry Matter 89.23%    Moisture 10.77%

Description (%DM unless specified)	Dry Matter Basis	As Received Basis	Grasses (hay)	
			60 dy Avg	4 yr Avg
Crude Protein	14.56	12.99	13.03	11.89
Soluble Protein, %CP	27.47	24.51		31.70
Avail. Crude Protein	13.83	12.34		
ADICP	0.73	0.65	0.59	0.81
NDICP	2.65	2.36		2.28
ADICP %CP	5.01	4.47		
ADF	43.16	38.51	35.67	40.24
aNDF	68.63	61.24	55.16	60.64
Calcium	0.29	0.26	0.52	0.58
Phosphorus	0.18	0.16	0.23	
Magnesium	0.14	0.12	0.20	
Potassium	0.87	0.78	1.92	1.59
Sodium	ND*	ND*	0.02	0.09
Sulfur	0.15	0.14	0.16	0.12
Chloride	0.15	0.13	0.41	0.58
Fat (EE)	1.26	1.12	1.79	1.66
Ash	9.64	8.60	8.79	8.86
Lignin	7.27	6.49	6.10	5.70
Lignin %NDF	10.59	9.45		
Sugar (ESC)	1.18	1.05	7.54	7.04
Sugar (WSC)	7.19	6.42		8.21
Starch	0.26	0.23	3.02	8.37
NSC	7.45			
<b>Calculations</b>				
TDN (Horse)	42.31			
Digest. energy (Horse), Mcal/lb	0.806			
RFV	75			90
NFC	8.56			

\*ND - None Detected

For analysis guidelines, please visit <http://www.rockriverlab.com>

### Comments

Minerals by ICP

Digestible Energy calculated by methods recommended by Kentucky Equine Research.



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GALUSHA FARMS  
27W 271 GALUSHA RD  
WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: CARL DREIS

=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY C-4 WHEATON GR <i>Delaware</i>		1297231		06/09/16	
MOISTURE	12.36%	DRY MATTER	87.64%	5 C SUGARS	20.81%
CRUDE PROT	10.96%	CALCIUM	0.37%	6 C SUGARS	
SOLUBLE PROT	20.21%	PHOSPHORUS	0.19%	FRUCTOSE	2.95%
		MAGNESIUM	0.21%	GLUCOSE	2.02%
ADF	35.82%	POTASSIUM	1.38% <i>17:0</i>	SUCROSE	0.00%
NDF	56.63%	CHLORIDE	0.32%	MALTOSE	0.00%
		SULFUR	0.16%	RAFFINOSE	0.00%
ADIP (HD)	0.78%	SODIUM	0.04%	MALTOTRIOSE	0.00%
LIGNIN	3.06%	ZINC	37 PPM	STACHYOSE	0.00%
FAT	2.60%	COPPER	6 PPM	MANNITOL	0.00%
STARCH	2.28%	IRON	1102 PPM		
		MANGANESE	74 PPM		
ASH	11.01%				
IVDMD	63.04%	CALCULATIONS			
NDFD-30	47.54%	NFC	21.90		
NITRATE-N PPM	42	NEL	0.64 MCAL/LB		
		NEM	0.53 MCAL/LB		
		NEG	0.28 MCAL/LB		
		TDN	62		
		RFV	100		
		RFQ	104.7		

*9-2017 test was 7.45%*

*Sugars = 7.2%*

*Want ≤ 10-12%  
for horses with  
Metabolic Syndrome*

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ALL VALUES, EXCEPT MOISTURE, ARE ON A 100% DRY MATTER BASIS.





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WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: CARL DREIS

=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY A-2 GR SUG GROVE, <del>WARRENVILLE</del>		1297232		06/10/16	
MOISTURE	11.62%	DRY MATTER	88.38%	5 C SUGARS	23.37%
CRUDE PROT	10.05%	CALCIUM	0.54%	6 C SUGARS	
SOLUBLE PROT	23.39%	PHOSPHORUS	0.31%	FRUCTOSE	2.40%
		MAGNESIUM	0.19%	GLUCOSE	1.04%
ADF	42.03%	POTASSIUM	1.61%	SUCROSE	0.39%
NDF	65.40%	CHLORIDE	1.12%	MALTOSE	0.00%
		SULFUR	0.26%	RAFFINOSE	0.00%
ADIP (HD)	0.86%	SODIUM	0.03%	MALTOTRIOSE	0.00%
LIGNIN	6.10%	ZINC	66 PPM	STACHYOSE	0.00%
FAT	1.17%	COPPER	4 PPM	MANNITOL	0.00%
STARCH	1.29%	IRON	132 PPM		
		MANGANESE	28 PPM		
ASH	7.19%				
		CALCULATIONS			
IVDMD	54.09%	NFC	19.23		
NDFD-30	40.20%	NEL	0.56 MCAL/LB		
NITRATE-N PPM	69	NEM	0.43 MCAL/LB		
		NEG	0.18 MCAL/LB		
		TDN	55		
		RFV	79		
		RFQ	81.8		

*Sugars = 5.1%*

*Want  $\leq$  10-12%  
for metabolic syndrome  
Hoser*

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WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: CARL DREIS

=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY AM/L1 MARMION		1297227		06/13/16	
MOISTURE	13.78%	DRY MATTER	86.22%	5 C SUGARS	10.95%
CRUDE PROT	17.49%	CALCIUM	1.14%	6 C SUGARS	
SOLUBLE PROT	33.98%	PHOSPHORUS	0.26%	FRUCTOSE	3.67%
		MAGNESIUM	0.29%	GLUCOSE	1.25%
		POTASSIUM	2.68%	SUCROSE	5.60%
ADF	30.94%	CHLORIDE	0.17%	MALTOSE	0.00%
NDF	41.89%	SULFUR	0.14%	RAFFINOSE	0.00%
		SODIUM	0.06%	MALTOTRIOSE	0.00%
ADIP (HD)	0.75%			STACHYOSE	0.00%
LIGNIN	4.89%	ZINC	49 PPM	MANNITOL	0.00%
		COPPER	9 PPM		
FAT	1.38%	IRON	208 PPM		
STARCH	1.99%	MANGANESE	34 PPM		
ASH	8.85%				
		CALCULATIONS			
IVDMD	74.62%	NFC	32.34		
NDFD-30	58.75%				
		NEL	0.68	MCAL/LB	
NITRATE-N PPM	108	NEM	0.61	MCAL/LB	
		NEG	0.35	MCAL/LB	
		TDN	65		
		RFV	143		
		RFQ	169.2		

*Yellows = 12.5% for "Sugars"*

*ideally want it*

*≤ 10-12% Sugars for*

*Horses with Metabolic Syndrome*

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ACCOUNT NO: 36571  
SALESMAN: CARL DREIS

=====		SAMPLE NO. =====		DATE ANALYZED ===	
HAY C1 GM HERRICK - <i>Handwritten scribble</i>		1297230		06/09/16	
MOISTURE	15.63%	DRY MATTER	84.38%	5 C SUGARS	16.10%
CRUDE PROT	14.55%	CALCIUM	0.76%	6 C SUGARS	
SOLUBLE PROT	26.79%	PHOSPHORUS	0.23%	FRUCTOSE	4.51%
		MAGNESIUM	0.25%	GLUCOSE	3.44%
ADF	30.53%	POTASSIUM	2.29%	SUCROSE	2.72%
NDF	46.63%	CHLORIDE	0.27%	MALTOSE	0.00%
		SULFUR	0.16%	RAFFINOSE	0.00%
ADIP (HD)	0.66%	SODIUM	0.05%	MALTOTRIOSE	0.00%
LIGNIN	4.19%	ZINC	60 PPM	STACHYOSE	0.00%
		COPPER	6 PPM	MANNITOL	0.00%
FAT	1.54%	IRON	153 PPM		
STARCH	4.87%	MANGANESE	50 PPM		
ASH	8.29%				
		CALCULATIONS			
IVDMD	75.45%	NFC	33.00		
NDFD-30	64.79%	NEL	0.70 MCAL/LB		
		NEM	0.64 MCAL/LB		
NITRATE-N PPM	24	NEG	0.38 MCAL/LB		
		TDN	67		
		RFV	129		
		RFQ	157.4		

*Sugars = 15.5%*

*Want ≤ 20%  
ideally ≤ 10-12%*

*for Horses with  
Metabolic Syndrome.*

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ACCOUNT NO: 36571  
SALESMAN: CARL DREIS

=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY MIX 50-50 ST JAMES -2016 crop		1297228		06/09/16	
=====					
MOISTURE	13.90%	DRY MATTER	86.10%	5 C SUGARS	15.45%
CRUDE PROT	11.91%	CALCIUM	0.82%	6 C SUGARS	
SOLUBLE PROT	23.95%	PHOSPHORUS	0.22%	FRUCTOSE	4.27%
		MAGNESIUM	0.24%	GLUCOSE	2.24%
		POTASSIUM	1.80%	SUCROSE	5.84%
ADF	33.92%	CHLORIDE	0.14%	MALTOSE	0.00%
NDF	49.37%	SULFUR	0.15%	RAFFINOSE	0.00%
		SODIUM	0.05%	MALTOTRIOSE	0.00%
ADIP (HD)	0.67%			STACHYOSE	0.00%
LIGNIN	6.06%	ZINC	47 PPM	MANNITOL	0.00%
		COPPER	5 PPM		
FAT	1.35%	IRON	176 PPM		
STARCH	4.47%	MANGANESE	57 PPM		

*Sugars = 16.8%*

=====		CALCULATIONS	
IVDMD	69.22%	NFC	34.25
NDFD-30	52.76%	NEL	0.66 MCAL/LB
		NEM	0.57 MCAL/LB
NITRATE-N PPM	25	NEG	0.31 MCAL/LB
		TDN	64
		RFV	117
		RFQ	140.7

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ALL VALUES, EXCEPT MOISTURE, ARE ON A 100% DRY MATTER BASIS.











