

GALUSHA FARMS  
STEVE BERNING  
27W 271 GALUSHA RD  
WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: TOM SLATER

===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY GM1HEP0811S3BL1RB-S 1665187 06/29/21  
=====

MOISTURE	9.80%	DRY MATTER	90.20%
CRUDE PROT	10.77%	CALCIUM	0.87%
SOLUBLE PROT	22.63%	PHOSPHORUS	0.19%
		MAGNESIUM	0.30%
		POTASSIUM	1.66%
ADF	35.89%	CHLORIDE	0.58%
NDF	57.91%	SULFUR	0.15%
		SODIUM	0.03%
ADIP (HD)	0.81%		
LIGNIN	5.09%	ZINC	17 PPM
		COPPER	5 PPM
FAT	1.79%	IRON	132 PPM
STARCH	3.08%	MANGANESE	35 PPM

ASH 6.91%

		CALCULATIONS	
IVDMD	62.71%	NFC	26.35
NDFD-30	52.81%		
		NEL	0.64 MCAL/LB
		NEM	0.53 MCAL/LB
NITRATE-N PPM	21	NEG	0.28 MCAL/LB
		TDN	62.4
		RFV	98
		RFQ	122.3

NSC % 10.68

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

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY GM1EOP612W2T1585BS7 1665188 06/29/21  
=====

MOISTURE	9.32%	DRY MATTER	90.68%
CRUDE PROT	13.67%	CALCIUM	0.60%
SOLUBLE PROT	25.31%	PHOSPHORUS	0.26%
		MAGNESIUM	0.22%
		POTASSIUM	2.39%
ADF	33.77%	CHLORIDE	0.24%
NDF	55.56%	SULFUR	0.15%
		SODIUM	0.01%
ADIP (HD)	0.67%		
LIGNIN	3.80%	ZINC	21 PPM
		COPPER	5 PPM
FAT	1.85%	IRON	351 PPM
STARCH	2.68%	MANGANESE	37 PPM

ASH 7.13%

		CALCULATIONS	
IVDMD	68.78%	NFC	26.34
NDFD-30	63.64%		
		NEL	0.66 MCAL/LB
		NEM	0.59 MCAL/LB
NITRATE-N PPM	39	NEG	0.33 MCAL/LB
		TDN	64.1
		RFV	105
		RFQ	146.8

NSC % 9.98

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY GM1SJP0811S3BL145I1 1665189 06/29/21  
=====

MOISTURE	8.36%	DRY MATTER	91.64%
CRUDE PROT	12.76%	CALCIUM	0.82%
SOLUBLE PROT	17.82%	PHOSPHORUS	0.15%
		MAGNESIUM	0.33%
		POTASSIUM	2.14%
ADF	32.15%	CHLORIDE	1.05%
NDF	57.91%	SULFUR	0.23%
		SODIUM	0.01%
ADIP (HD)	0.73%		
LIGNIN	4.46%	ZINC	22 PPM
		COPPER	7 PPM
FAT	2.96%	IRON	130 PPM
STARCH	3.35%	MANGANESE	88 PPM

ASH 6.23%

		CALCULATIONS	
IVDMD	63.36%	NFC	25.44
NDFD-30	58.02%		
		NEL	0.69 MCAL/LB
		NEM	0.60 MCAL/LB
NITRATE-N PPM	26	NEG	0.34 MCAL/LB
		TDN	66.5
		RFV	103
		RFQ	147.4

NSC % 10.05

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY AM1MARS1016W1R30B25 1665190 06/29/21  
=====

MOISTURE	16.00%	DRY MATTER	84.00%
CRUDE PROT	19.00%	CALCIUM	1.51%
SOLUBLE PROT	33.86%	PHOSPHORUS	0.31%
		MAGNESIUM	0.40%
		POTASSIUM	2.57%
ADF	29.80%	CHLORIDE	0.54%
NDF	38.86%	SULFUR	0.21%
		SODIUM	0.02%
ADIP (HD)	0.95%		
LIGNIN	5.33%	ZINC	31 PPM
		COPPER	9 PPM
FAT	1.50%	IRON	136 PPM
STARCH	2.11%	MANGANESE	36 PPM

ASH 9.04%

		CALCULATIONS	
IVDMD	75.64%	NFC	34.61
NDFD-30	66.16%	NEL	0.69 MCAL/LB
		NEM	0.63 MCAL/LB
		NEG	0.36 MCAL/LB
		TDN	66.8
		RFV	157
		RFQ	204.2

NSC %

10.11

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY M1APP0812S4T1W1BL25 1665191 06/29/21  
=====

MOISTURE	10.05%	DRY MATTER	89.96%
CRUDE PROT	9.99%	CALCIUM	0.75%
SOLUBLE PROT	19.90%	PHOSPHORUS	0.13%
		MAGNESIUM	0.29%
		POTASSIUM	1.78%
ADF	34.12%	CHLORIDE	0.84%
NDF	60.05%	SULFUR	0.13%
		SODIUM	0.01%
ADIP (HD)	0.87%		
LIGNIN	4.92%	ZINC	20 PPM
		COPPER	6 PPM
FAT	2.25%	IRON	660 PPM
STARCH	3.12%	MANGANESE	54 PPM

ASH 6.23%

CALCULATIONS

IVDMD	61.25%	NFC	25.43
NDFD-30	55.55%		
		NEL	0.66 MCAL/LB
		NEM	0.56 MCAL/LB
		NEG	0.31 MCAL/LB
		TDN	64.4
		RFV	97
		RFQ	128.1

NSC %

11.42

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY GM1SJP0811S3BL145IL 1665192 06/29/21  
=====

MOISTURE	7.65%	DRY MATTER	92.36%
CRUDE PROT	11.98%	CALCIUM	0.65%
SOLUBLE PROT	16.80%	PHOSPHORUS	0.18%
		MAGNESIUM	0.29%
		POTASSIUM	2.26%
ADF	32.96%	CHLORIDE	0.98%
NDF	59.08%	SULFUR	0.21%
		SODIUM	0.00%
ADIP (HD)	0.61%		
LIGNIN	4.04%	ZINC	22 PPM
		COPPER	6 PPM
FAT	2.68%	IRON	160 PPM
STARCH	3.21%	MANGANESE	48 PPM
ASH	5.70%		

		CALCULATIONS	
IVDMD	62.84%	NFC	25.52
NDFD-30	56.96%		
		NEL	0.68 MCAL/LB
		NEM	0.58 MCAL/LB
NITRATE-N PPM	41	NEG	0.33 MCAL/LB
		TDN	65.6
		RFV	100
		RFQ	142.7

NSC % 10.41

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY GM1KFS812S4BL1T150A 1665193 06/29/21  
=====

MOISTURE	8.01%	DRY MATTER	91.99%
CRUDE PROT	13.41%	CALCIUM	0.83%
SOLUBLE PROT	16.07%	PHOSPHORUS	0.24%
		MAGNESIUM	0.33%
		POTASSIUM	1.93%
ADF	29.55%	CHLORIDE	0.87%
NDF	52.66%	SULFUR	0.17%
		SODIUM	0.02%
ADIP (HD)	0.57%		
LIGNIN	3.91%	ZINC	26 PPM
		COPPER	7 PPM
FAT	2.27%	IRON	117 PPM
STARCH	3.07%	MANGANESE	30 PPM

ASH 5.68%

		CALCULATIONS	
IVDMD	70.16%	NFC	30.80
NDFD-30	66.65%	NEL	0.71 MCAL/LB
		NEM	0.66 MCAL/LB
NITRATE-N PPM	35	NEG	0.39 MCAL/LB
		TDN	68.9
		RFV	116
		RFQ	171.6

NSC % 12.77

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===== SAMPLE NO. ===== DATE ANALYZED =====  
HAY G1SGSW11723R30B360E 1665194 06/29/21  
=====

MOISTURE	13.52%	DRY MATTER	86.48%
CRUDE PROT	13.45%	CALCIUM	0.45%
SOLUBLE PROT	19.31%	PHOSPHORUS	0.28%
		MAGNESIUM	0.19%
		POTASSIUM	2.25%
ADF	31.17%	CHLORIDE	0.73%
NDF	57.16%	SULFUR	0.20%
		SODIUM	0.00%
ADIP (HD)	0.54%		
LIGNIN	2.78%	ZINC	22 PPM
		COPPER	5 PPM
FAT	2.33%	IRON	252 PPM
STARCH	2.06%	MANGANESE	74 PPM

ASH 7.21%

CALCULATIONS

IVDMD	68.63%	NFC	25.41
NDFD-30	64.64%	NEL	0.69 MCAL/LB
		NEM	0.63 MCAL/LB
NITRATE-N PPM	25	NEG	0.37 MCAL/LB
		TDN	67.0
		RFV	105
		RFQ	152.8

NSC % 11.36

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=====		SAMPLE NO.	=====		DATE ANALYZED	=====
HAY GM2MAXG1316S2BL1		1696456			11/17/21	
=====						
MOISTURE	8.70%	DRY MATTER	91.30%	HEM	20.78%	
CRUDE PROT	9.11%	CALCIUM	0.38%	SUGARS		
SOLUBLE PROT	25.26%	PHOSPHORUS	0.26%	FRUCTOSE	1.91%	
		MAGNESIUM	0.23%	GLUCOSE	1.66%	
		POTASSIUM	1.77%	SUCROSE	1.26%	
ADF	41.53%	CHLORIDE	0.41%	MANNITOL	0.21%	
NDF	62.31%	SULFUR	0.11%			
		SODIUM	0.02%			
ADIP (HD)	1.19%					
LIGNIN	6.09%	ZINC	23 PPM			
		COPPER	5 PPM			
FAT	2.04%	IRON	1200 PPM			
STARCH	4.21%	MANGANESE	67 PPM			
ASH	9.97%					
CALCULATIONS						
IVDMD	56.94%	NFC	19.50			
NDFD-30	46.81%					
		NEL	0.57	MCAL/LB		
		NEM	0.43	MCAL/LB		
NITRATE-N PPM	29	NEG	0.19	MCAL/LB		
		TDN	56.1			
		RFV	84			
		RFQ	88.5			
NSC %	9.0					

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=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY AM3SJG0030W1S2B2		1696457		11/17/21	
=====					
MOISTURE	4.98%	DRY MATTER	95.02%	HEM	16.85%
CRUDE PROT	15.01%	CALCIUM	1.03%	SUGARS	
SOLUBLE PROT	29.31%	PHOSPHORUS	0.22%	FRUCTOSE	1.58%
		MAGNESIUM	0.26%	GLUCOSE	0.18%
		POTASSIUM	2.65%	SUCROSE	1.47%
ADF	39.36%	CHLORIDE	0.93%	MANNITOL	0.12%
NDF	56.21%	SULFUR	0.22%		
		SODIUM	0.02%		
ADIP (HD)	1.14%				
LIGNIN	7.60%	ZINC	22 PPM		
		COPPER	9 PPM		
FAT	1.48%	IRON	312 PPM		
STARCH	2.47%	MANGANESE	38 PPM		
ASH	9.47%				
CALCULATIONS					
IVDMD	61.53%	NFC	21.51		
NDFD-30	44.49%				
		NEL	0.59 MCAL/LB		
		NEM	0.49 MCAL/LB		
NITRATE-N PPM	342	NEG	0.24 MCAL/LB		
		TDN	57.7		
		RFV	96		
		RFQ	93.4		
NSC %	5.7				

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=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY G1WHP1219S245		1696458		11/17/21	
=====					
MOISTURE	19.26%	DRY MATTER	80.74%	HEM	24.43%
CRUDE PROT	8.75%	CALCIUM	0.39%	SUGARS	
SOLUBLE PROT	20.00%	PHOSPHORUS	0.18%	FRUCTOSE	2.42%
		MAGNESIUM	0.18%	GLUCOSE	1.51%
ADF	37.88%	POTASSIUM	0.98%	SUCROSE	2.40%
NDF	62.31%	CHLORIDE	0.32%	MANNITOL	0.27%
		SULFUR	0.17%		
		SODIUM	0.00%		
ADIP (HD)	0.77%				
LIGNIN	4.34%	ZINC	25 PPM		
		COPPER	4 PPM		
FAT	2.84%	IRON	482 PPM		
STARCH	2.67%	MANGANESE	54 PPM		

ASH 8.23%

		CALCULATIONS	
IVDMD	55.70%	NFC	19.90
NDFD-30	39.64%		
		NEL	0.62 MCAL/LB
		NEM	0.50 MCAL/LB
		NEG	0.25 MCAL/LB
		TDN	60.2
		RFV	89
		RFQ	89.5

NSC %

9.0

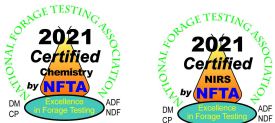
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=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY GM2LWG1017S2BR2 40		1696459		11/17/21	
=====					
MOISTURE	19.74%	DRY MATTER	80.27%	HEM	18.38%
CRUDE PROT	11.71%	CALCIUM	0.68%	SUGARS	
SOLUBLE PROT	23.80%	PHOSPHORUS	0.25%	FRUCTOSE	3.50%
		MAGNESIUM	0.30%	GLUCOSE	2.40%
		POTASSIUM	1.69%	SUCROSE	2.08%
ADF	35.38%	CHLORIDE	0.84%	MANNITOL	0.30%
NDF	53.76%	SULFUR	0.21%		
		SODIUM	0.01%		
ADIP (HD)	1.09%				
LIGNIN	4.76%	ZINC	20 PPM		
		COPPER	6 PPM		
FAT	2.35%	IRON	392 PPM		
STARCH	4.00%	MANGANESE	124 PPM		
ASH	9.80%				
CALCULATIONS					
IVDMD	64.49%	NFC	25.17		
NDFD-30	51.30%				
		NEL	0.65 MCAL/LB		
		NEM	0.54 MCAL/LB		
NITRATE-N PPM	29	NEG	0.29 MCAL/LB		
		TDN	63.0		
		RFV	106		
		RFQ	118.0		
NSC %					12.0

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=====		SAMPLE NO.	=====		DATE ANALYZED	=====
HAY G2COMSG1720 48		1696460			11/17/21	
=====						
MOISTURE	7.90%	DRY MATTER	92.10%	HEM	19.90%	
CRUDE PROT	9.86%	CALCIUM	0.53%	SUGARS		
SOLUBLE PROT	21.67%	PHOSPHORUS	0.29%	FRUCTOSE	4.12%	
		MAGNESIUM	0.30%	GLUCOSE	2.87%	
		POTASSIUM	1.43%	SUCROSE	1.82%	
ADF	36.29%	CHLORIDE	0.88%	MANNITOL	0.28%	
NDF	56.19%	SULFUR	0.22%			
		SODIUM	0.01%			
ADIP (HD)	0.90%					
LIGNIN	3.90%	ZINC	26 PPM			
		COPPER	5 PPM			
FAT	2.28%	IRON	382 PPM			
STARCH	3.76%	MANGANESE	47 PPM			
ASH	10.43%					
		CALCULATIONS				
IVDMD	61.55%	NFC	23.20			
NDFD-30	49.37%	NEL	0.64	MCAL/LB		
		NEM	0.53	MCAL/LB		
NITRATE-N PPM	49	NEG	0.27	MCAL/LB		
		TDN	61.9			
		RFV	100			
		RFQ	104.7			
NSC %	12.6					

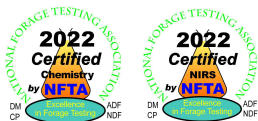
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=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY AM3MAG1519S145		1713235		02/11/22	
=====					
MOISTURE	15.76%	DRY MATTER	84.24%	HEM	14.36%
CRUDE PROT	16.17%	CALCIUM	1.44%	SUGARS	
SOLUBLE PROT	30.56%	PHOSPHORUS	0.27%	FRUCTOSE	0.90%
		MAGNESIUM	0.45%	GLUCOSE	0.13%
ADF	38.88%	POTASSIUM	1.81%	SUCROSE	1.60%
NDF	53.24%	CHLORIDE	0.65%	MANNITOL	0.35%
		SULFUR	0.27%		
		SODIUM	0.08%		
ADIP (HD)	1.36%				
LIGNIN	8.31%	ZINC	32 PPM		
		COPPER	9 PPM		
FAT	1.44%	IRON	322 PPM		
STARCH	2.21%	MANGANESE	40 PPM		
ASH	9.54%				
		CALCULATIONS			
IVDMD	62.09%	NFC	23.85		
NDFD-30	42.77%				
		NEL	0.59 MCAL/LB		
NITRATE-N PPM	59	NEM	0.50 MCAL/LB		
		NEG	0.25 MCAL/LB		
		TDN	58.2		
		RFV	102		
		RFQ	92.6		
<b>NSC</b>		<b>4.81</b>			

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=====		SAMPLE NO.	=====		DATE ANALYZED	=====
HAY A4SJP0914S2BL1 53		1713236			02/11/22	
-----						
MOISTURE	13.17%	DRY MATTER	86.84%	HEM	6.58%	
CRUDE PROT	21.27%	CALCIUM	1.90%	SUGARS		
SOLUBLE PROT	27.40%	PHOSPHORUS	0.20%	FRUCTOSE	4.67%	
		MAGNESIUM	0.43%	GLUCOSE	1.27%	
		POTASSIUM	1.36%	SUCROSE	3.01%	
ADF	24.99%	CHLORIDE	0.86%	MANNITOL	0.31%	
NDF	31.57%	SULFUR	0.35%			
		SODIUM	0.06%			
ADIP (HD)	0.89%					
LIGNIN	5.60%	ZINC	33 PPM			
		COPPER	9 PPM			
FAT	1.63%	IRON	275 PPM			
STARCH	4.01%	MANGANESE	34 PPM			
ASH	10.39%					
		CALCULATIONS				
IVDMD	78.47%	NFC	37.93			
NDFD-30	49.92%					
		NEL	0.75	MCAL/LB		
		NEM	0.70	MCAL/LB		
NITRATE-N PPM	37	NEG	0.43	MCAL/LB		
		TDN	71.9			
		RFV	205			
		RFQ	207.3			
NSC	13.01					

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=====		SAMPLE NO.	=====	DATE ANALYZED	=====
HAY A4MAP0016 400-600#		1713237		02/11/22	
=====					
MOISTURE	20.24%	DRY MATTER	79.76%	HEM	11.96%
CRUDE PROT	19.80%	CALCIUM	1.44%	SUGARS	
SOLUBLE PROT	27.17%	PHOSPHORUS	0.32%	FRUCTOSE	0.88%
		MAGNESIUM	0.29%	GLUCOSE	0.30%
		POTASSIUM	1.61%	SUCROSE	1.95%
ADF	35.79%	CHLORIDE	0.48%	MANNITOL	0.35%
NDF	47.75%	SULFUR	0.27%		
		SODIUM	0.09%		
ADIP (HD)	1.58%				
LIGNIN	7.95%	ZINC	29 PPM		
		COPPER	10 PPM		
FAT	1.40%	IRON	1219 PPM		
STARCH	2.46%	MANGANESE	81 PPM		
ASH	10.71%				
CALCULATIONS					
IVDMD	67.35%	NFC	25.51		
NDFD-30	45.78%				
		NEL	0.62 MCAL/LB		
		NEM	0.53 MCAL/LB		
NITRATE-N PPM	61	NEG	0.28 MCAL/LB		
		TDN	60.4		
		RFV	119		
		RFQ	114.5		
NSC					5.56

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



GALUSHA FARMS  
STEVE BERNING  
27W 271 GALUSHA RD  
WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: TOM SLATER

=====		SAMPLE NO.	=====		DATE ANALYZED	=====
HAY ALF 1ST FRM RON		1713238			02/11/22	
MOISTURE	17.73%	DRY MATTER	82.27%	HEM		11.81%
CRUDE PROT	14.46%	CALCIUM	1.16%	SUGARS		
SOLUBLE PROT	37.81%	PHOSPHORUS	0.32%	FRUCTOSE		0.03%
		MAGNESIUM	0.25%	GLUCOSE		0.00%
		POTASSIUM	2.66%	SUCROSE		1.83%
ADF	44.07%	CHLORIDE	0.48%	MANNITOL		0.37%
NDF	55.88%	SULFUR	0.14%			
		SODIUM	0.04%			
ADIP (HD)	1.44%					
LIGNIN	9.54%	ZINC	37 PPM			
		COPPER	7 PPM			
FAT	1.30%	IRON	1232 PPM			
STARCH	2.31%	MANGANESE	60 PPM			
ASH	10.27%					
		CALCULATIONS				
IVDMD	57.50%	NFC	20.86			
NDFD-30	35.63%					
		NEL	0.53	MCAL/LB		
		NEM	0.40	MCAL/LB		
NITRATE-N PPM	99	NEG	0.16	MCAL/LB		
		TDN	52.3			
		RFV	91			
		RFQ	69.2			
NSC						4.21

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

GALUSHA FARMS  
STEVE BERNING  
27W 271 GALUSHA RD  
WARRENVILLE IL 60555

ACCOUNT NO: 36571  
SALESMAN: TOM SLATER

=====		SAMPLE NO.	=====		DATE ANALYZED	=====
HAY AM3KFP1822S1T160 E		1713239			02/11/22	
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MOISTURE	12.81%	DRY MATTER	87.19%	HEM		10.90%
CRUDE PROT	17.92%	CALCIUM	1.34%	SUGARS		
SOLUBLE PROT	27.58%	PHOSPHORUS	0.30%	FRUCTOSE		4.09%
		MAGNESIUM	0.42%	GLUCOSE		1.75%
ADF	27.48%	POTASSIUM	2.05%	SUCROSE		2.59%
NDF	38.38%	CHLORIDE	1.05%	MANNITOL		0.31%
		SULFUR	0.29%			
		SODIUM	0.06%			
ADIP (HD)	0.88%					
LIGNIN	5.34%	ZINC	46 PPM			
		COPPER	9 PPM			
FAT	2.14%	IRON	178 PPM			
STARCH	5.20%	MANGANESE	56 PPM			
ASH	10.43%					
CALCULATIONS						
IVDMD	75.62%	NFC	34.44			
NDFD-30	53.28%	NEL	0.72	MCAL/LB		
		NEM	0.66	MCAL/LB		
NITRATE-N PPM	35	NEG	0.40	MCAL/LB		
		TDN	69.3			
		RFV	164			
		RFQ	173.3			
NSC						13.6

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

