

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

ACCOUNT NO: 36571
SALESMAN: TOM SLATER

=====		SAMPLE NO. =====		DATE ANALYZED =====	
GRASS	HAY	1952888		12/08/25	
=====					
MOISTURE	10.35%	DRY MATTER	89.65%	HEM	17.71%
CRUDE PROT	9.29%	CALCIUM	0.93%	SUGARS	
SOLUBLE PROT	24.29%	PHOSPHORUS	0.21%	FRUCTOSE	0.58%
		MAGNESIUM	0.32%	GLUCOSE	0.88%
		POTASSIUM	1.26%	SUCROSE	0.88%
ADF	47.00%	CHLORIDE	0.39%	MANNITOL	0.15%
NDF	64.71%	SULFUR	0.10%		
		SODIUM	0.00%		
ADIP(HD)	1.65%				
LIGNIN	9.12%	ZINC	22 PPM		
		COPPER	5 PPM		
FAT	0.98%	IRON	349 PPM		
STARCH	1.70%	MANGANESE	58 PPM		
ASH	6.47%				
		CALCULATIONS			
IVDMD	49.52%	NFC	21.87		
NDFD-30	31.85%				
		NEL	0.50	MCAL/LB	
		NEM	0.34	MCAL/LB	
		NEG	0.10	MCAL/LB	
		TDN	50.0		
		RFV	75		
		RFQ	66.8		
NSC	4.04 %				

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

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
ALFALFA MIX		1931335		08/26/25	
=====					
MOISTURE	11.80%	DRY MATTER	88.20%	HEM	15.20%
CRUDE PROT	16.72%	CALCIUM	1.09%	SUGARS	
SOLUBLE PROT	27.65%	PHOSPHORUS	0.27%	FRUCTOSE	0.87%
		MAGNESIUM	0.33%	GLUCOSE	0.68%
		POTASSIUM	1.60%	SUCROSE	2.12%
ADF	38.39%	CHLORIDE	0.46%	GALACTOSE	0.07%
NDF	53.59%	SULFUR	0.16%	MANNITOL	0.25%
		SODIUM	0.04%		
ADIP (HD)	1.32%				
LIGNIN	9.11%	ZINC	35 PPM		
		COPPER	10 PPM		
FAT	1.03%	IRON	299 PPM		
STARCH	1.94%	MANGANESE	32 PPM		
ASH	8.52%				
		CALCULATIONS			
IVDMD	59.81%	NFC	24.18		
NDFD-30	36.58%				
		NEL	0.59 MCAL/LB		
		NEM	0.50 MCAL/LB		
		NEG	0.25 MCAL/LB		
		TDN	57.6		
		RFV	102		
		RFQ	86.6		
NSC	5.62 %				

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

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=====		SAMPLE NO.		=====		DATE ANALYZED		=====	
HAY		1933952				09/10/25			
=====									
MOISTURE	12.02%	DRY MATTER	87.99%	HEM				22.12%	
CRUDE PROT	8.61%	CALCIUM	0.48%	SUGARS					
SOLUBLE PROT	20.41%	PHOSPHORUS	0.35%	FRUCTOSE				1.67%	
		MAGNESIUM	0.37%	GLUCOSE				1.62%	
		POTASSIUM	1.56%	SUCROSE				1.19%	
ADF	42.25%	CHLORIDE	1.22%	GALACTOSE				0.02%	
NDF	64.37%	SULFUR	0.18%	MANNITOL				0.20%	
		SODIUM	0.00%						
ADIP (HD)	1.20%								
LIGNIN	5.74%	ZINC	21 PPM						
		COPPER	4 PPM						
FAT	1.70%	IRON	130 PPM						
STARCH	1.57%	MANGANESE	36 PPM						
ASH	9.76%								
		CALCULATIONS							
IVDMD	53.02%	NFC	17.83						
NDFD-30	44.07%								
		NEL	0.56 MCAL/LB						
		NEM	0.42 MCAL/LB						
		NEG	0.18 MCAL/LB						
		TDN	55.3						
		RFV	81						
		RFQ	79.6						
NSC	6.04 %								

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
GRASS	HAY	1933730		09/09/25	
=====					
MOISTURE	13.66%	DRY MATTER	86.34%	HEM	23.58%
CRUDE PROT	7.95%	CALCIUM	0.48%	SUGARS	
SOLUBLE PROT	11.57%	PHOSPHORUS	0.25%	FRUCTOSE	1.73%
		MAGNESIUM	0.25%	GLUCOSE	1.46%
		POTASSIUM	0.94%	SUCROSE	2.05%
ADF	40.28%	CHLORIDE	0.17%	GALACTOSE	0.03%
NDF	63.86%	SULFUR	0.14%	MANNITOL	0.27%
		SODIUM	0.01%		
ADIP (HD)	1.10%				
LIGNIN	6.11%	ZINC	18 PPM		
		COPPER	3 PPM		
FAT	1.94%	IRON	151 PPM		
STARCH	1.94%	MANGANESE	142 PPM		
ASH	7.81%				
		CALCULATIONS			
IVDMD	53.70%	NFC	20.91		
NDFD-30	43.92%				
		NEL	0.59	MCAL/LB	
		NEM	0.46	MCAL/LB	
		NEG	0.21	MCAL/LB	
		TDN	57.5		
		RFV	84		
		RFQ	87.3		
NSC		7.18	%		

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
GRASS HAY		1945986		11/03/25	
=====					
MOISTURE	16.65%	DRY MATTER	83.35%	HEM	21.92%
CRUDE PROT	9.90%	CALCIUM	0.42%	SUGARS	
SOLUBLE PROT	21.12%	PHOSPHORUS	0.23%	FRUCTOSE	1.29%
		MAGNESIUM	0.22%	GLUCOSE	1.47%
		POTASSIUM	0.97%	SUCROSE	2.65%
ADF	38.63%	CHLORIDE	0.24%	GALACTOSE	0.03%
NDF	60.55%	SULFUR	0.17%	MANNITOL	0.24%
		SODIUM	0.01%		
ADIP (HD)	1.16%				
LIGNIN	4.39%	ZINC	31 PPM		
		COPPER	6 PPM		
FAT	2.61%	IRON	1238 PPM		
STARCH	1.79%	MANGANESE	71 PPM		
ASH	10.38%				
		CALCULATIONS			
IVDMD	53.85%	NFC	18.38		
NDFD-30	37.23%				
		NEL	0.61 MCAL/LB		
		NEM	0.49 MCAL/LB		
		NEG	0.24 MCAL/LB		
		TDN	59.3		
		RFV	90		
		RFQ	83.7		
NSC	7.20 %				

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=====		SAMPLE NO. =====		DATE ANALYZED ===	
MIX HAY		1931336		08/26/25	
=====					
MOISTURE	10.78%	DRY MATTER	89.22%	HEM	17.51%
CRUDE PROT	13.21%	CALCIUM	1.59%	SUGARS	
SOLUBLE PROT	21.05%	PHOSPHORUS	0.16%	FRUCTOSE	2.41%
		MAGNESIUM	0.39%	GLUCOSE	1.08%
		POTASSIUM	1.13%	SUCROSE	2.41%
ADF	35.08%	CHLORIDE	0.50%	GALACTOSE	0.07%
NDF	52.59%	SULFUR	0.14%	MANNITOL	0.18%
		SODIUM	0.03%		
ADIP (HD)	1.10%				
LIGNIN	7.27%	ZINC	21 PPM		
		COPPER	7 PPM		
FAT	1.77%	IRON	197 PPM		
STARCH	2.37%	MANGANESE	35 PPM		
ASH	8.35%				
		CALCULATIONS			
IVDMD	63.71%	NFC	27.38		
NDFD-30	46.36%				
		NEL	0.65 MCAL/LB		
		NEM	0.55 MCAL/LB		
		NEG	0.29 MCAL/LB		
		TDN	63.3		
		RFV	109		
		RFQ	117.3		
NSC	8.27 %				

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
ALFALFA MIX		1931334		08/26/25	
=====					
MOISTURE	13.50%	DRY MATTER	86.50%	HEM	10.51%
CRUDE PROT	19.33%	CALCIUM	1.26%	SUGARS	
SOLUBLE PROT	29.55%	PHOSPHORUS	0.30%	FRUCTOSE	1.84%
		MAGNESIUM	0.44%	GLUCOSE	1.22%
		POTASSIUM	1.64%	SUCROSE	2.39%
ADF	31.95%	CHLORIDE	0.28%	GALACTOSE	0.09%
NDF	42.46%	SULFUR	0.23%	MANNITOL	0.25%
		SODIUM	0.03%		
ADIP (HD)	1.22%				
LIGNIN	6.82%	ZINC	29 PPM		
		COPPER	12 PPM		
FAT	1.71%	IRON	1024 PPM		
STARCH	3.51%	MANGANESE	56 PPM		
ASH	11.29%				
		CALCULATIONS			
IVDMD	70.18%	NFC	29.15		
NDFD-30	43.85%				
		NEL	0.66 MCAL/LB		
		NEM	0.59 MCAL/LB		
		NEG	0.33 MCAL/LB		
		TDN	64.5		
		RFV	140		
		RFQ	129.1		
NSC	8.96 %				

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
MIX HAY		1931337		08/26/25	
=====					
MOISTURE	11.88%	DRY MATTER	88.13%	HEM	17.24%
CRUDE PROT	15.21%	CALCIUM	1.32%	SUGARS	
SOLUBLE PROT	21.33%	PHOSPHORUS	0.26%	FRUCTOSE	3.14%
		MAGNESIUM	0.40%	GLUCOSE	1.72%
		POTASSIUM	1.73%	SUCROSE	1.53%
ADF	33.16%	CHLORIDE	0.43%	GALACTOSE	0.09%
NDF	50.40%	SULFUR	0.13%	MANNITOL	0.19%
		SODIUM	0.01%		
ADIP (HD)	1.06%				
LIGNIN	7.10%	ZINC	26 PPM		
		COPPER	9 PPM		
FAT	1.56%	IRON	140 PPM		
STARCH	3.23%	MANGANESE	38 PPM		
ASH	7.18%				
		CALCULATIONS			
IVDMD	68.84%	NFC	30.23		
NDFD-30	53.13%	NEL	0.67 MCAL/LB		
		NEM	0.60 MCAL/LB		
		NEG	0.34 MCAL/LB		
		TDN	64.8		
		RFV	116		
		RFQ	136.1		
NSC	9.62 %				

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
ALFALFA MIX		1931333		08/26/25	
=====					
MOISTURE	14.75%	DRY MATTER	85.25%	HEM	14.10%
CRUDE PROT	18.02%	CALCIUM	1.32%	SUGARS	
SOLUBLE PROT	25.79%	PHOSPHORUS	0.21%	FRUCTOSE	3.73%
		MAGNESIUM	0.39%	GLUCOSE	1.99%
		POTASSIUM	2.49%	SUCROSE	2.02%
ADF	28.09%	CHLORIDE	0.49%	GALACTOSE	0.11%
NDF	42.19%	SULFUR	0.20%	MANNITOL	0.12%
		SODIUM	0.00%		
ADIP (HD)	0.98%				
LIGNIN	5.62%	ZINC	33 PPM		
		COPPER	10 PPM		
FAT	1.72%	IRON	427 PPM		
STARCH	4.91%	MANGANESE	49 PPM		
ASH	9.17%				
		CALCULATIONS			
IVDMD	74.96%	NFC	32.89		
NDFD-30	55.66%				
		NEL	0.71	MCAL/LB	
		NEM	0.65	MCAL/LB	
		NEG	0.39	MCAL/LB	
		TDN	68.6		
		RFV	148		
		RFQ	162.5		
NSC		12.65	%		

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=====		SAMPLE NO.		=====		DATE ANALYZED		=====	
ALFALFA MIX		1860909				07/02/24			
=====									
MOISTURE	11.60%	DRY MATTER	88.40%			HEM	15.05%		
CRUDE PROT	12.68%	CALCIUM	1.02%			SUGARS			
SOLUBLE PROT	32.95%	PHOSPHORUS	0.19%			FRUCTOSE	1.28%		
		MAGNESIUM	0.30%			GLUCOSE	1.08%		
		POTASSIUM	1.86%			SUCROSE	1.92%		
ADF	39.59%	CHLORIDE	0.49%			GALACTOSE	0.08%		
NDF	54.64%	SULFUR	0.10%			MANNITOL	0.12%		
		SODIUM	0.05%						
ADIP (HD)	0.82%								
LIGNIN	6.97%	ZINC	24 PPM						
		COPPER	9 PPM						
FAT	1.28%	IRON	146 PPM						
STARCH	3.27%	MANGANESE	24 PPM						
ASH	8.10%								
		CALCULATIONS							
IVDMD	61.55%	NFC	25.57						
NDFD-30	42.13%								
		NEL	0.59	MCAL/LB					
		NEM	0.47	MCAL/LB					
		NEG	0.22	MCAL/LB					
		TDN	58.3						
		RFV	99						
		RFQ	99.3						
NSC %		7.54							

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=====		SAMPLE NO. =====		DATE ANALYZED =====	
ALFALFA (BIG SQUARES 3' x 3')		1945988		11/03/25	
=====					
MOISTURE	12.38%	DRY MATTER	87.62%	HEM	8.32%
CRUDE PROT	20.58%	CALCIUM	1.14%	SUGARS	
SOLUBLE PROT	31.47%	PHOSPHORUS	0.35%	FRUCTOSE	0.71%
		MAGNESIUM	0.34%	GLUCOSE	0.91%
		POTASSIUM	2.03%	SUCROSE	2.15%
ADF	32.49%	CHLORIDE	0.29%	GALACTOSE	0.08%
NDF	40.81%	SULFUR	0.22%	MANNITOL	0.25%
		SODIUM	0.01%		
ADIP (HD)	1.33%				
LIGNIN	7.04%	ZINC	25 PPM		
		COPPER	10 PPM		
FAT	1.61%	IRON	1342 PPM		
STARCH	3.12%	MANGANESE	60 PPM		
ASH	12.30%				
		CALCULATIONS			
IVDMD	70.73%	NFC	29.11		
NDFD-30	44.57%	NEL	0.66 MCAL/LB		
		NEM	0.58 MCAL/LB		
		NEG	0.33 MCAL/LB		
		TDN	63.9		
		RFV	145		
		RFQ	136.0		
NSC	6.89 %				

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=====		SAMPLE NO.		=====		DATE ANALYZED		=====	
ALFALFA MIX		(BIG SQUARES 3' x 3')		1945987		11/03/25			
=====									
MOISTURE		11.67%		DRY MATTER		88.33%		HEM 13.70%	
CRUDE PROT		16.79%		CALCIUM		1.45%		SUGARS	
SOLUBLE PROT		28.33%		PHOSPHORUS		0.17%		FRUCTOSE 1.69%	
				MAGNESIUM		0.34%		GLUCOSE 0.68%	
				POTASSIUM		2.03%		SUCROSE 2.49%	
ADF		34.81%		CHLORIDE		0.43%		GALACTOSE 0.10%	
NDF		48.51%		SULFUR		0.17%		MANNITOL 0.11%	
				SODIUM		0.00%			
ADIP (HD)		0.91%							
LIGNIN		7.89%		ZINC		27 PPM			
				COPPER		9 PPM			
FAT		1.15%		IRON		188 PPM			
STARCH		2.17%		MANGANESE		31 PPM			
ASH		7.30%							
				CALCULATIONS					
IVDMD		65.24%		NFC		29.48			
NDFD-30		41.13%							
				NEL		0.63 MCAL/LB			
				NEM		0.54 MCAL/LB			
				NEG		0.29 MCAL/LB			
				TDN		61.4			
				RFV		118			
				RFQ		106.1			
NSC		7.04 %							

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ALFALFA MIX	(BIG SQUARES 3' x 3')		1945989		11/03/25				
=====									
MOISTURE	12.35%	DRY MATTER	87.65%		HEM		12.57%		
CRUDE PROT	14.91%	CALCIUM	1.08%		SUGARS				
SOLUBLE PROT	30.00%	PHOSPHORUS	0.28%		FRUCTOSE		1.80%		
		MAGNESIUM	0.24%		GLUCOSE		0.95%		
		POTASSIUM	2.11%		SUCROSE		2.24%		
ADF	33.98%	CHLORIDE	0.49%		GALACTOSE		0.10%		
NDF	46.55%	SULFUR	0.18%		MANNITOL		0.14%		
		SODIUM	0.00%						
ADIP (HD)	0.89%								
LIGNIN	7.61%	ZINC	19 PPM						
		COPPER	8 PPM						
FAT	1.23%	IRON	427 PPM						
STARCH	5.40%	MANGANESE	27 PPM						
ASH	8.36%								
		CALCULATIONS							
IVDMD	67.50%	NFC	31.47						
NDFD-30	43.39%								
		NEL	0.66	MCAL/LB					
		NEM	0.58	MCAL/LB					
		NEG	0.33	MCAL/LB					
		TDN	63.8						
		RFV	125						
		RFQ	115.5						
NSC	10.39 %								

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