

Sample Analysis Results



18246 Waller Rd
P.O. Box 208
Fulton, IL 61252
(800) 435-9560

Consultant: Tom Slater
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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1995586
Sample Description: Mix Hay
Customer Number: 36571

Process Date: 09/02/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	3.44
True Digestible Nutrients Horse	%DM	56.61
Digestible Energy	MCAL/LB	1.13
Ethanol Soluble Carbohydrates	%DM	1.34

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	24.50
Net Energy Lactation	MCAL/LB	0.59
Net Energy Maintenance	MCAL/LB	0.49
Net Energy Gain	MCAL/LB	0.24
Relative Feed Value		96.39
Relative Forage Quality		113.68

		% Dry Matter
As Is Moisture	%DM	15.55
Dry Matter	%DM	84.45
Crude Protein	%DM	13.90
Soluble Protein	%CP	16.89
Acid Detergent Fiber	%DM	39.42
Neutral Detergent Fiber	%DM	56.16
Acid Detergent Insoluble Protein	%DM	1.74
Lignin	%DM	6.68
Fat	%DM	2.29
Starch	%DM	2.10
Ash	%DM	8.25
Invitro Dry Matter Digestibility	%DM	60.34
Neutral Detergent Fiber Digest 30h	%DM	50.34
Calcium	%DM	0.90
Phosphorus	%DM	0.23
Magnesium	%DM	0.39
Potassium	%DM	1.39
Chloride	%DM	0.29
Sulfur	%DM	0.22
Sodium	%DM	0.00
Zinc	PPM	24
Copper	PPM	8
Iron	PPM	277
Manganese	PPM	46
Hemicellulose	%DM	16.75
Sugar	%DM	1.34
Fructose	%DM	0.00
Glucose	%DM	0.31
Sucrose	%DM	1.03
Mannitol	%DM	0.17



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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1995587
Sample Description: Grass / Grass Mix Hay
Customer Number: 36571

Process Date: 09/02/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	3.82
True Digestible Nutrients Horse	%DM	50.92
Digestible Energy	MCAL/LB	1.07
Ethanol Soluble Carbohydrates	%DM	1.61

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	15.63
Net Energy Lactation	MCAL/LB	0.54
Net Energy Maintenance	MCAL/LB	0.39
Net Energy Gain	MCAL/LB	0.14
Relative Feed Value		77.61
Relative Forage Quality		79.42

		% Dry Matter
As Is Moisture	%DM	16.01
Dry Matter	%DM	83.99
Crude Protein	%DM	10.56
Soluble Protein	%CP	25.23
Acid Detergent Fiber	%DM	44.20
Neutral Detergent Fiber	%DM	65.29
Acid Detergent Insoluble Protein	%DM	1.37
Lignin	%DM	5.86
Fat	%DM	2.13
Starch	%DM	2.20
Ash	%DM	10.26
Invitro Dry Matter Digestibility	%DM	54.53
Neutral Detergent Fiber Digest 30h	%DM	44.86
Calcium	%DM	0.63
Phosphorus	%DM	0.31
Magnesium	%DM	0.35
Potassium	%DM	1.87
Chloride	%DM	0.88
Sulfur	%DM	0.10
Sodium	%DM	0.00
Zinc	PPM	19
Copper	PPM	7
Iron	PPM	713
Manganese	PPM	123
Hemicellulose	%DM	21.09
Sugar	%DM	1.61
Fructose	%DM	0.00
Glucose	%DM	0.75
Sucrose	%DM	0.86
Mannitol	%DM	0.14



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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1995588
Sample Description: Mix Hay
Customer Number: 36571

Process Date: 09/02/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	4.87
True Digestible Nutrients Horse	%DM	56.62
Digestible Energy	MCAL/LB	1.11
Ethanol Soluble Carbohydrates	%DM	2.04

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	24.78
Net Energy Lactation	MCAL/LB	0.60
Net Energy Maintenance	MCAL/LB	0.51
Net Energy Gain	MCAL/LB	0.25
Relative Feed Value		99.85
Relative Forage Quality		112.80

		% Dry Matter
As Is Moisture	%DM	15.10
Dry Matter	%DM	84.90
Crude Protein	%DM	14.11
Soluble Protein	%CP	24.77
Acid Detergent Fiber	%DM	38.36
Neutral Detergent Fiber	%DM	54.98
Acid Detergent Insoluble Protein	%DM	1.48
Lignin	%DM	6.12
Fat	%DM	1.73
Starch	%DM	2.83
Ash	%DM	9.32
Invitro Dry Matter Digestibility	%DM	64.53
Neutral Detergent Fiber Digest 30h	%DM	52.22
Calcium	%DM	0.88
Phosphorus	%DM	0.39
Magnesium	%DM	0.32
Potassium	%DM	2.16
Chloride	%DM	0.36
Sulfur	%DM	0.20
Sodium	%DM	0.00
Zinc	PPM	29
Copper	PPM	8
Iron	PPM	265
Manganese	PPM	179
Hemicellulose	%DM	16.62
Sugar	%DM	2.04
Fructose	%DM	0.21
Glucose	%DM	0.90
Sucrose	%DM	0.93
Mannitol	%DM	0.13



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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989369
Sample Description: Mix Hay
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	5.43
True Digestible Nutrients Horse	%DM	58.92
Digestible Energy	MCAL/LB	1.14
Ethanol Soluble Carbohydrates	%DM	2.55

		% Dry Matter
As Is Moisture	%DM	15.89
Dry Matter	%DM	84.11
Crude Protein	%DM	12.23
Soluble Protein	%CP	26.31
Acid Detergent Fiber	%DM	35.46
Neutral Detergent Fiber	%DM	54.59
Acid Detergent Insoluble Protein	%DM	1.32
Lignin	%DM	5.72
Fat	%DM	1.53
Starch	%DM	2.89
Ash	%DM	7.25
Invitro Dry Matter Digestibility	%DM	61.76
Neutral Detergent Fiber Digest 30h	%DM	47.21
Calcium	%DM	1.33
Phosphorus	%DM	0.16
Magnesium	%DM	0.35
Potassium	%DM	1.30
Chloride	%DM	0.62
Sulfur	%DM	0.12
Sodium	%DM	0.01
Zinc	PPM	23
Copper	PPM	6
Iron	PPM	145
Manganese	PPM	37
Hemicellulose	%DM	19.12
Sugar	%DM	2.55
Fructose	%DM	0.89
Glucose	%DM	0.75
Sucrose	%DM	0.91
Mannitol	%DM	0.06

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	28.84
Net Energy Lactation	MCAL/LB	0.65
Net Energy Maintenance	MCAL/LB	0.54
Net Energy Gain	MCAL/LB	0.29
Relative Feed Value		104.43
Relative Forage Quality		119.97

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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989367
Sample Description: Alfalfa Mix
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	5.66
True Digestible Nutrients Horse	%DM	61.93
Digestible Energy	MCAL/LB	1.19
Ethanol Soluble Carbohydrates	%DM	2.65

		% Dry Matter
As Is Moisture	%DM	15.09
Dry Matter	%DM	84.91
Crude Protein	%DM	14.96
Soluble Protein	%CP	23.20
Acid Detergent Fiber	%DM	32.33
Neutral Detergent Fiber	%DM	46.38
Acid Detergent Insoluble Protein	%DM	1.52
Lignin	%DM	4.97
Fat	%DM	1.78
Starch	%DM	3.01
Ash	%DM	8.38
Invitro Dry Matter Digestibility	%DM	68.74
Neutral Detergent Fiber Digest 30h	%DM	55.51
Calcium	%DM	1.28
Phosphorus	%DM	0.28
Magnesium	%DM	0.35
Potassium	%DM	1.65
Chloride	%DM	0.42
Sulfur	%DM	0.21
Sodium	%DM	0.00
Zinc	PPM	27
Copper	PPM	10
Iron	PPM	134
Manganese	PPM	49
Hemicellulose	%DM	14.05
Sugar	%DM	2.65
Fructose	%DM	0.00
Glucose	%DM	1.12
Sucrose	%DM	1.52
Mannitol	%DM	0.14

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	32.61
Net Energy Lactation	MCAL/LB	0.68
Net Energy Maintenance	MCAL/LB	0.61
Net Energy Gain	MCAL/LB	0.35
Relative Feed Value		127.78
Relative Forage Quality		146.98

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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989366
Sample Description: Alfalfa Mix
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	6.15
True Digestible Nutrients Horse	%DM	62.97
Digestible Energy	MCAL/LB	1.18
Ethanol Soluble Carbohydrates	%DM	3.32

	% Dry Matter
As Is Moisture	%DM 19.14
Dry Matter	%DM 80.86
Crude Protein	%DM 19.63
Soluble Protein	%CP 35.37
Acid Detergent Fiber	%DM 33.86
Neutral Detergent Fiber	%DM 43.19
Acid Detergent Insoluble Protein	%DM 1.48
Lignin	%DM 6.48
Fat	%DM 1.10
Starch	%DM 2.83
Ash	%DM 7.84
Invitro Dry Matter Digestibility	%DM 68.10
Neutral Detergent Fiber Digest 30h	%DM 44.66
Calcium	%DM 1.37
Phosphorus	%DM 0.30
Magnesium	%DM 0.32
Potassium	%DM 1.35
Chloride	%DM 0.26
Sulfur	%DM 0.26
Sodium	%DM 0.10
Zinc	PPM 23
Copper	PPM 11
Iron	PPM 108
Manganese	PPM 28
Hemicellulose	%DM 9.32
Sugar	%DM 3.32
Fructose	%DM 0.60
Glucose	%DM 0.73
Sucrose	%DM 1.99
Mannitol	%DM 0.18

Calculations	% Dry Matter
Non Fiber Carbohydrate	%DM 31.13
Net Energy Lactation	MCAL/LB 0.64
Net Energy Maintenance	MCAL/LB 0.56
Net Energy Gain	MCAL/LB 0.31
Relative Feed Value	134.68
Relative Forage Quality	132.32



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Galusha Farm	Sample Number:	1992145	Process Date:	08/13/26
27w 271 Galusha Rd	Sample Description:	Grass Hay		
Warrenville, IL 60555	Customer Number:	36571		

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	7.29
True Digestible Nutrients Horse	%DM	55.67
Digestible Energy	MCAL/LB	1.11
Ethanol Soluble Carbohydrates	%DM	4.53

		% Dry Matter
As Is Moisture	%DM	14.40
Dry Matter	%DM	85.60
Crude Protein	%DM	8.72
Soluble Protein	%CP	25.07
Acid Detergent Fiber	%DM	40.46
Neutral Detergent Fiber	%DM	63.51
Acid Detergent Insoluble Protein	%DM	1.24
Lignin	%DM	5.53
Fat	%DM	1.98
Starch	%DM	2.76
Ash	%DM	7.41
Invitro Dry Matter Digestibility	%DM	55.57
Neutral Detergent Fiber Digest 30h	%DM	43.69
Calcium	%DM	0.51
Phosphorus	%DM	0.21
Magnesium	%DM	0.23
Potassium	%DM	1.22
Chloride	%DM	0.14
Sulfur	%DM	0.12
Sodium	%DM	0.00
Zinc	PPM	15
Copper	PPM	4
Iron	PPM	215
Manganese	PPM	99
Hemicellulose	%DM	23.05
Sugar	%DM	4.53
Fructose	%DM	1.69
Glucose	%DM	1.99
Sucrose	%DM	0.85
Mannitol	%DM	0.05

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	22.67
Net Energy Lactation	MCAL/LB	0.58
Net Energy Maintenance	MCAL/LB	0.45
Net Energy Gain	MCAL/LB	0.21
Relative Feed Value		84.05
Relative Forage Quality		93.09



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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989370
Sample Description: Mix Hay
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	7.63
True Digestible Nutrients Horse	%DM	61.42
Digestible Energy	MCAL/LB	1.18
Ethanol Soluble Carbohydrates	%DM	3.78

		% Dry Matter
As Is Moisture	%DM	12.78
Dry Matter	%DM	87.22
Crude Protein	%DM	16.21
Soluble Protein	%CP	27.64
Acid Detergent Fiber	%DM	30.95
Neutral Detergent Fiber	%DM	46.22
Acid Detergent Insoluble Protein	%DM	1.22
Lignin	%DM	4.66
Fat	%DM	1.27
Starch	%DM	3.85
Ash	%DM	8.39
Invitro Dry Matter Digestibility	%DM	72.01
Neutral Detergent Fiber Digest 30h	%DM	56.56
Calcium	%DM	1.17
Phosphorus	%DM	0.25
Magnesium	%DM	0.33
Potassium	%DM	1.69
Chloride	%DM	0.34
Sulfur	%DM	0.20
Sodium	%DM	0.00
Zinc	PPM	26
Copper	PPM	9
Iron	PPM	175
Manganese	PPM	42
Hemicellulose	%DM	15.27
Sugar	%DM	3.78
Fructose	%DM	1.51
Glucose	%DM	1.25
Sucrose	%DM	1.03
Mannitol	%DM	0.05

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	32.56
Net Energy Lactation	MCAL/LB	0.69
Net Energy Maintenance	MCAL/LB	0.63
Net Energy Gain	MCAL/LB	0.37
Relative Feed Value		130.40
Relative Forage Quality		141.81

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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989368
Sample Description: Mix Hay
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	9.27
True Digestible Nutrients Horse	%DM	61.60
Digestible Energy	MCAL/LB	1.18
Ethanol Soluble Carbohydrates	%DM	4.83

		% Dry Matter
As Is Moisture	%DM	12.87
Dry Matter	%DM	87.13
Crude Protein	%DM	15.90
Soluble Protein	%CP	26.94
Acid Detergent Fiber	%DM	31.38
Neutral Detergent Fiber	%DM	46.79
Acid Detergent Insoluble Protein	%DM	1.28
Lignin	%DM	4.63
Fat	%DM	1.58
Starch	%DM	4.43
Ash	%DM	8.19
Invitro Dry Matter Digestibility	%DM	70.74
Neutral Detergent Fiber Digest 30h	%DM	55.84
Calcium	%DM	1.08
Phosphorus	%DM	0.23
Magnesium	%DM	0.34
Potassium	%DM	1.81
Chloride	%DM	0.24
Sulfur	%DM	0.26
Sodium	%DM	0.00
Zinc	PPM	26
Copper	PPM	9
Iron	PPM	282
Manganese	PPM	58
Hemicellulose	%DM	15.40
Sugar	%DM	4.83
Fructose	%DM	1.72
Glucose	%DM	1.75
Sucrose	%DM	1.36
Mannitol	%DM	0.12

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	32.07
Net Energy Lactation	MCAL/LB	0.69
Net Energy Maintenance	MCAL/LB	0.63
Net Energy Gain	MCAL/LB	0.37
Relative Feed Value		128.15
Relative Forage Quality		142.63

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Galusha Farm
27w 271 Galusha Rd
Warrenville, IL 60555

Sample Number: 1989371
Sample Description: Alfalfa Mix
Customer Number: 36571

Process Date: 07/29/26

Horse Calculations		% Dry Matter
Non Structural Carbohydrates	%DM	5.37
True Digestible Nutrients Horse	%DM	61.16
Digestible Energy	MCAL/LB	1.17
Ethanol Soluble Carbohydrates	%DM	3.20

		% Dry Matter
As Is Moisture	%DM	15.10
Dry Matter	%DM	84.90
Crude Protein	%DM	17.50
Soluble Protein	%CP	34.42
Acid Detergent Fiber	%DM	35.07
Neutral Detergent Fiber	%DM	46.19
Acid Detergent Insoluble Protein	%DM	1.29
Lignin	%DM	6.05
Fat	%DM	1.04
Starch	%DM	2.16
Ash	%DM	8.37
Invitro Dry Matter Digestibility	%DM	69.34
Neutral Detergent Fiber Digest 30h	%DM	48.00
Calcium	%DM	1.03
Phosphorus	%DM	0.29
Magnesium	%DM	0.23
Potassium	%DM	1.99
Chloride	%DM	0.37
Sulfur	%DM	0.23
Sodium	%DM	0.05
Zinc	PPM	24
Copper	PPM	9
Iron	PPM	118
Manganese	PPM	21
Hemicellulose	%DM	11.13
Sugar	%DM	3.20
Fructose	%DM	0.92
Glucose	%DM	0.44
Sucrose	%DM	1.84
Mannitol	%DM	0.15

Calculations		% Dry Matter
Non Fiber Carbohydrate	%DM	29.52
Net Energy Lactation	MCAL/LB	0.63
Net Energy Maintenance	MCAL/LB	0.54
Net Energy Gain	MCAL/LB	0.29
Relative Feed Value		124.01
Relative Forage Quality		126.38