

Soil Analysis Report



Account ID: 606105

FORESTDALE FARM  
450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99296

Results For: FORESTDALE FARM      Location: --      Sample ID: M1      Depth: 0-8 in

Soil Health Assessment									
WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH			
Total Nitrogen, ppm N	44.4	Nitrate, Lbs/Acre	61	Soil Respiration, ppm CO <sub>2</sub> C	202.0	Microbially Active Carbon, % MAC		95.1	
Organic Nitrogen, ppm N	15.7	Ammonium, Lbs/Acre	7	Water Stable Aggregates (Mod), %	95	Organic C:N		13.6	
Organic Carbon, ppm C	213	Organic Nitrogen, Lbs/Acre	38	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N		15.7	
Ammonium, ppm NH <sub>4</sub> -N	3.1	Organic Nitrogen Release, Lbs/Acre	38	Cover Crop Suggestion (Legume/Grass)		Organic Nitrogen Reserve, ppm N		0.0	
Nitrate, ppm NO <sub>3</sub> -N	25.61	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation		NH <sub>4</sub> :NO <sub>3</sub>		0.1	

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.1	6.6	0.15	NONE	16.9	128.7	199	1398	436	115	10.3	8.81	53.9	9.7	0.65	--	--	15.2	24	3	46	24	3

"<" - Not Detected / Below Detection Limit

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450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99297

Results For: FORESTDALE FARM

Location: --

Sample ID: M2

Depth: 0-8 in

## Soil Health Assessment

WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH	
Total Nitrogen, ppm N	66.1	Nitrate, Lbs/Acre	124	Soil Respiration, ppm CO <sub>2</sub> C	206.0	Microbially Active Carbon, % MAC	132.1
Organic Nitrogen, ppm N	6.3	Ammonium, Lbs/Acre	19	Water Stable Aggregates (Mod), %	97	Organic C:N	24.9
Organic Carbon, ppm C	156	Organic Nitrogen, Lbs/Acre	15	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N	6.3
Ammonium, ppm NH <sub>4</sub> -N	8.0	Organic Nitrogen Release, Lbs/Acre	15	Cover Crop Suggestion (Legume/Grass)		Organic Nitrogen Reserve, ppm N	0.0
Nitrate, ppm NO <sub>3</sub> -N	51.80	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation		NH <sub>4</sub> :NO <sub>3</sub>	0.2

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.1	6.4	0.18	NONE	15.0	123.0	202	1415	380	113	9.4	6.34	31.9	6.4	0.45	--	--	17.3	35	3	41	18	3

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Reviewed by: Jon Kerman

10/17/2025

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Phone: 308-234-2418

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4007 Cherry Ave, Kearney Nebraska 68847

# Soil Analysis Report



Account ID: 606105

FORESTDALE FARM  
450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99298

Results For: FORESTDALE FARM

Location: --

Sample ID: M3

Depth: 0-8 in

## Soil Health Assessment

WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH	
Total Nitrogen, ppm N	44.9	Nitrate, Lbs/Acre	77	Soil Respiration, ppm CO <sub>2</sub> C	187.0	Microbially Active Carbon, % MAC	145.1
Organic Nitrogen, ppm N	10.6	Ammonium, Lbs/Acre	6	Water Stable Aggregates (Mod), %	94	Organic C:N	12.2
Organic Carbon, ppm C	129	Organic Nitrogen, Lbs/Acre	25	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N	10.6
Ammonium, ppm NH <sub>4</sub> -N	2.4	Organic Nitrogen Release, Lbs/Acre	25	Cover Crop Suggestion (Legume/Grass)	10%/90%	Organic Nitrogen Reserve, ppm N	0.0
Nitrate, ppm NO <sub>3</sub> -N	31.91	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation	19.57	NH <sub>4</sub> :NO <sub>3</sub>	0.1

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.0	6.3	0.21	NONE	12.3	88.8	242	1900	480	24	10.2	7.04	30.3	3.6	0.42	--	--	21.2	33	3	45	19	0

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# Soil Analysis Report



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450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99299

Results For: FORESTDALE FARM

Location: --

Sample ID: M4

Depth: 0-8 in

## Soil Health Assessment

WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH	
Total Nitrogen, ppm N	27.8	Nitrate, Lbs/Acre	33	Soil Respiration, ppm CO <sub>2</sub> C	204.0	Microbially Active Carbon, % MAC	125.2
Organic Nitrogen, ppm N	11.1	Ammonium, Lbs/Acre	7	Water Stable Aggregates (Mod), %	96	Organic C:N	14.6
Organic Carbon, ppm C	163	Organic Nitrogen, Lbs/Acre	27	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N	11.1
Ammonium, ppm NH <sub>4</sub> -N	3.1	Organic Nitrogen Release, Lbs/Acre	27	Cover Crop Suggestion (Legume/Grass)	20%/80%	Organic Nitrogen Reserve, ppm N	0.0
Nitrate, ppm NO <sub>3</sub> -N	13.61	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation	21.26	NH <sub>4</sub> :NO <sub>3</sub>	0.2

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.0	6.6	0.08	NONE	13.6	115.3	227	1709	453	26	9.5	6.73	37.8	4.4	0.61	--	--	17.2	24	3	50	22	1

"<" - Not Detected / Below Detection Limit

Soil Analysis Report



Account ID: 606105  
FORESTDALE FARM  
450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99300

Results For: FORESTDALE FARM      Location: --      Sample ID: M5      Depth: 0-8 in

Soil Health Assessment									
WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH			
Total Nitrogen, ppm N	32.8	Nitrate, Lbs/Acre	32	Soil Respiration, ppm CO <sub>2</sub> C	215.0	Microbially Active Carbon, % MAC		115.5	
Organic Nitrogen, ppm N	12.0	Ammonium, Lbs/Acre	17	Water Stable Aggregates (Mod), %	92	Organic C:N		15.5	
Organic Carbon, ppm C	186	Organic Nitrogen, Lbs/Acre	29	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N		12.0	
Ammonium, ppm NH <sub>4</sub> -N	7.3	Organic Nitrogen Release, Lbs/Acre	29	Cover Crop Suggestion (Legume/Grass)		Organic Nitrogen Reserve, ppm N		0.0	
Nitrate, ppm NO <sub>3</sub> -N	13.51	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation		NH <sub>4</sub> :NO <sub>3</sub>		0.5	

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.0	6.7	0.23	NONE	12.7	86.3	222	1760	405	24	12.6	7.97	39.2	4.6	0.54	--	--	15.5	17	4	57	22	1

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FORESTDALE FARM  
450 S ASH LANE  
FLAGSTAFF, AZ 86004

Report Type: Soil  
Invoice Number: 1507360  
Date Received: 10/10/2025  
Date Reported: 10/14/2025  
Lab ID: 99301

Results For: FORESTDALE FARM

Location: --

Sample ID: M6

Depth: 0-8 in

## Soil Health Assessment

WATER EXTRACT		AVAILABLE NITROGEN LBS/ACRE		SOIL HEALTH		SOIL HEALTH	
Total Nitrogen, ppm N	41.8	Nitrate, Lbs/Acre	45	Soil Respiration, ppm CO <sub>2</sub> C	194.0	Microbially Active Carbon, % MAC	73.2
Organic Nitrogen, ppm N	19.5	Ammonium, Lbs/Acre	9	Water Stable Aggregates (Mod), %	96	Organic C:N	13.6
Organic Carbon, ppm C	265	Organic Nitrogen, Lbs/Acre	47	<i>Includes 0.25-2 mm diameter sand grains</i>		Organic Nitrogen Release, ppm N	19.5
Ammonium, ppm NH <sub>4</sub> -N	3.6	Organic Nitrogen Release, Lbs/Acre	47	Cover Crop Suggestion (Legume/Grass)	10%/90%	Organic Nitrogen Reserve, ppm N	0.0
Nitrate, ppm NO <sub>3</sub> -N	18.70	Organic Nitrogen Reserve, Lbs/Acre	< 0.01	Soil Health Calculation	23.58	NH <sub>4</sub> :NO <sub>3</sub>	0.2

Soil pH 1:1	BpH Modified WDRF	Soluble Salts 1:1 mmho/cm	Excess Lime Rating	Organic Matter LOI %	Phosphorus	Ammonium Acetate				Sulfate M-3 ppm S	DTPA-Sorbitol					CaNO <sub>3</sub> Chloride ppm Cl	Sum of Cations me/100g	% Base Saturation				
					O-P	K ppm	Ca ppm	Mg ppm	Na ppm		Zn ppm	Fe ppm	Mn ppm	Cu ppm	B ppm			H	K	Ca	Mg	Na
6.1	6.7	0.20	NONE	15.8	173.7	278	2014	464	191	12.5	7.97	30.3	5.2	0.62	--	--	18.2	15	4	55	21	5

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