Soil Analysis Report

Account ID: 606105

FORESTDALE FARM
450 S ASH LANE
FLAGSTAFF, AZ 86004

Report Type: Soil
Invoice Number: 1549167
Date Received: 10/1/2026
Date Reported: 10/5/2026
Lab ID: 94234

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 1 FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	17.4
Water Extractable Organic Nitrogen (WEON), ppm N	7.9
Water Extractable Organic Carbon (WEOC), ppm C	133
Ammonium-N H2O, ppm NH_4-N	0.6
Nitrate H2O, ppm NO_3-N	8.93

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	1
Nitrate-N, Lbs/Acre	21
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	19
Organic Nitrogen Release, Lbs/Acre	19
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	64.9
Water Stable Aggregates (Mod), %	91
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	50%/50%
Soil Health Calculation	9.95

SOIL HEALTH	
Microbially Active Carbon, % MAC	48.7
Organic C:N	17.0
Organic Nitrogen Release, ppm N	7.9
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	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	DTPA-Sorbitol					$CaNO_3$ 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
6.6	--	0.20	NONE	15.7	85.0	115	1193	377	28	9.6	2.47	6.6	1.3	0.86	--	--	9.5	0	3	63	33	1

"<" - Not Detected / Below Detection Limit

Reviewed by: Jon Kerman **10/14/2026**

Phone: 308-234-2418 **www.wardlab.com** **4007 Cherry Ave, Kearney Nebraska 68847**

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Invoice Number: 1549167
Date Received: 10/1/2026
Date Reported: 10/5/2026
Lab ID: 94235

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 2 FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	19.4
Water Extractable Organic Nitrogen (WEON), ppm N	6.9
Water Extractable Organic Carbon (WEOC), ppm C	85
Ammonium-N H2O, ppm NH_4-N	1.0
Nitrate H2O, ppm NO_3-N	11.53

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	2
Nitrate-N, Lbs/Acre	28
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	17
Organic Nitrogen Release, Lbs/Acre	17
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	109.7
Water Stable Aggregates (Mod), %	95
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	40%/60%
Soil Health Calculation	13.36

SOIL HEALTH	
Microbially Active Carbon, % MAC	129.3
Organic C:N	12.3
Organic Nitrogen Release, ppm N	6.9
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	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	DTPA-Sorbitol					$CaNO_3$ 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
7.2	--	0.22	NONE	14.3	74.4	126	1375	359	23	10.4	4.24	15.3	0.8	0.19	--	--	10.3	0	3	67	29	1

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Lab ID: 94236

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 3 NO FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	14.8
Water Extractable Organic Nitrogen (WEON), ppm N	4.3
Water Extractable Organic Carbon (WEOC), ppm C	76
Ammonium-N H2O, ppm NH_4-N	1.1
Nitrate H2O, ppm NO_3-N	9.43

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	3
Nitrate-N, Lbs/Acre	23
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	10
Organic Nitrogen Release, Lbs/Acre	10
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	84.7
Water Stable Aggregates (Mod), %	91
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	40%/60%
Soil Health Calculation	10.42

SOIL HEALTH	
Microbially Active Carbon, % MAC	112.1
Organic C:N	17.5
Organic Nitrogen Release, ppm N	4.3
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	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	DTPA-Sorbitol					$CaNO_3$ 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
7.5	--	0.20	NONE	12.1	101.0	117	1931	488	20	9.9	5.30	23.1	0.9	0.27	--	--	14.1	0	2	68	29	1

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Date Reported: 10/5/2026
Lab ID: 94237

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 4 NO FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	21.0
Water Extractable Organic Nitrogen (WEON), ppm N	9.6
Water Extractable Organic Carbon (WEOC), ppm C	151
Ammonium-N H2O, ppm NH_4-N	0.9
Nitrate H2O, ppm NO_3-N	10.53

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	2
Nitrate-N, Lbs/Acre	25
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	23
Organic Nitrogen Release, Lbs/Acre	23
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	123.1
Water Stable Aggregates (Mod), %	92
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	30%/70%
Soil Health Calculation	16.30

SOIL HEALTH	
Microbially Active Carbon, % MAC	81.5
Organic C:N	15.7
Organic Nitrogen Release, ppm N	9.6
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	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	DTPA-Sorbitol					$CaNO_3$ 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
7.0	--	0.28	NONE	11.5	111.1	192	1442	369	15	14.9	16.20	23.8	1.5	0.34	--	--	10.8	0	5	66	28	1

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Invoice Number: 1549167
Date Received: 10/1/2026
Date Reported: 10/5/2026
Lab ID: 94238

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 5 NO FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	18.2
Water Extractable Organic Nitrogen (WEON), ppm N	5.6
Water Extractable Organic Carbon (WEOC), ppm C	87
Ammonium-N H2O, ppm NH_4-N	1.9
Nitrate H2O, ppm NO_3-N	10.63

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	5
Nitrate-N, Lbs/Acre	26
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	13
Organic Nitrogen Release, Lbs/Acre	13
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	139.3
Water Stable Aggregates (Mod), %	93
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	30%/70%
Soil Health Calculation	16.23

SOIL HEALTH	
Microbially Active Carbon, % MAC	160.5
Organic C:N	15.4
Organic Nitrogen Release, ppm N	5.6
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	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	DTPA-Sorbitol					$CaNO_3$ 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
7.4	--	0.19	NONE	11.1	81.7	137	1756	462	19	13.8	6.47	26.2	1.2	0.34	--	--	13.1	0	3	67	29	1

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Date Received: 10/1/2026
Date Reported: 10/5/2026
Lab ID: 94239

Results For: FORESTDALE FARM **Location:** M **Sample ID:** 6 NO FISH **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	20.6
Water Extractable Organic Nitrogen (WEON), ppm N	7.2
Water Extractable Organic Carbon (WEOC), ppm C	132
Ammonium-N H2O, ppm NH_4-N	3.2
Nitrate H2O, ppm NO_3-N	10.13

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	8
Nitrate-N, Lbs/Acre	24
Water Extractable Organic Nitrogen (WEON), Lbs/Acre	17
Organic Nitrogen Release, Lbs/Acre	17
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	176.6
Water Stable Aggregates (Mod), %	95
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	60%/40%
Soil Health Calculation	21.03

SOIL HEALTH	
Microbially Active Carbon, % MAC	133.6
Organic C:N	18.3
Organic Nitrogen Release, ppm N	7.2
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	0.3

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	DTPA-Sorbitol					$CaNO_3$ 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
7.4	--	0.31	NONE	11.7	113.2	272	1891	493	69	15.2	5.11	18.6	1.4	0.34	--	--	14.6	0	5	65	28	2

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