Soil Analysis Report

Account ID: 606105

FORESTDALE FARM
450 S ASH LANE
FLAGSTAFF, AZ 86004

Report Type: Soil
Invoice Number: 1523499
Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51924

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

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	33.7
Organic Nitrogen, ppm N	8.4
Organic Carbon, ppm C	97
Ammonium, ppm NH_4-N	1.0
Nitrate, ppm NO_3-N	24.24

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	3
Nitrate-N, Lbs/Acre	58
Organic Nitrogen, Lbs/Acre	20
Organic Nitrogen Release, Lbs/Acre	20
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	113.0
Water Stable Aggregates (Mod), %	90
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	40%/60%
Soil Health Calculation	14.09

SOIL HEALTH	
Microbially Active Carbon, % MAC	116.3
Organic C:N	11.6
Organic Nitrogen Release, ppm N	8.4
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	< 0.01

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
6.7	--	0.63	NONE	13.7	119.6	181	1408	403	52	8.0	6.78	38.1	3.3	0.41	--	--	11.1	0	4	63	30	2

"<" - Not Detected / Below Detection Limit

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Report Type: Soil
Invoice Number: 1523499
Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51925

Results For: FORESTDALE FARM **Location:** -- **Sample ID:** M2 **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	32.4
Organic Nitrogen, ppm N	2.9
Organic Carbon, ppm C	87
Ammonium, ppm NH_4-N	11.9
Nitrate, ppm NO_3-N	17.54

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	29
Nitrate-N, Lbs/Acre	42
Organic Nitrogen, Lbs/Acre	7
Organic Nitrogen Release, Lbs/Acre	7
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	137.7
Water Stable Aggregates (Mod), %	94
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	60%/40%
Soil Health Calculation	15.81

SOIL HEALTH	
Microbially Active Carbon, % MAC	158.0
Organic C:N	29.6
Organic Nitrogen Release, ppm N	2.9
Organic Nitrogen Reserve, ppm N	0.0
NH_4:NO_3	0.7

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
6.9	--	0.38	NONE	13.1	97.1	171	1511	339	45	8.4	5.12	19.3	2.5	0.28	--	--	11.0	0	4	69	26	2

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Reviewed by: Jon Kerman **4/29/2026**

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Report Type: Soil
Invoice Number: 1523499
Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51926

Results For: FORESTDALE FARM **Location:** -- **Sample ID:** M3 **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	23.2
Organic Nitrogen, ppm N	6.3
Organic Carbon, ppm C	64
Ammonium, ppm NH_4-N	1.4
Nitrate, ppm NO_3-N	15.54

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	3
Nitrate-N, Lbs/Acre	37
Organic Nitrogen, Lbs/Acre	15
Organic Nitrogen Release, Lbs/Acre	15
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	55.4
Water Stable Aggregates (Mod), %	91
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	50%/50%
Soil Health Calculation	7.44

SOIL HEALTH	
Microbially Active Carbon, % MAC	86.8
Organic C:N	10.1
Organic Nitrogen Release, ppm N	6.3
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
7.2	--	0.39	NONE	11.1	107.6	150	1708	397	17	7.8	4.67	20.0	1.5	0.25	--	--	12.3	0	3	69	27	1

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Report Type: Soil
Invoice Number: 1523499
Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51927

Results For: FORESTDALE FARM **Location:** -- **Sample ID:** M4 **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	85.3
Organic Nitrogen, ppm N	< 1
Organic Carbon, ppm C	127
Ammonium, ppm NH_4-N	14.4
Nitrate, ppm NO_3-N	77.34

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	35
Nitrate-N, Lbs/Acre	186
Organic Nitrogen, Lbs/Acre	< 0.01
Organic Nitrogen Release, Lbs/Acre	< 0.01
Organic Nitrogen Reserve, Lbs/Acre	24

SOIL HEALTH	
Soil Respiration, ppm CO_2C	82.2
Water Stable Aggregates (Mod), %	88
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	10%/90%
Soil Health Calculation	10.13

SOIL HEALTH	
Microbially Active Carbon, % MAC	64.7
Organic C:N	< 0
Organic Nitrogen Release, ppm N	< 0
Organic Nitrogen Reserve, ppm N	10.2
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
6.4	6.8	0.97	NONE	10.8	125.5	335	1746	402	40	20.9	19.67	26.1	7.1	0.50	--	--	14.6	10	6	60	23	1

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FLAGSTAFF, AZ 86004

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Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51928

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

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	21.6
Organic Nitrogen, ppm N	8.6
Organic Carbon, ppm C	78
Ammonium, ppm NH_4-N	1.1
Nitrate, ppm NO_3-N	11.84

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	3
Nitrate-N, Lbs/Acre	28
Organic Nitrogen, Lbs/Acre	21
Organic Nitrogen Release, Lbs/Acre	21
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	107.2
Water Stable Aggregates (Mod), %	90
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	40%/60%
Soil Health Calculation	13.14

SOIL HEALTH	
Microbially Active Carbon, % MAC	137.7
Organic C:N	9.0
Organic Nitrogen Release, ppm N	8.6
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
7.1	--	0.36	NONE	11.7	80.5	142	1516	349	13	6.3	5.42	29.4	2.1	0.31	--	--	10.9	0	3	69	27	0

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Date Received: 4/23/2026
Date Reported: 4/27/2026
Lab ID: 51929

Results For: FORESTDALE FARM **Location:** -- **Sample ID:** M6 **Depth:** 0-8 in

Soil Health Assessment

WATER EXTRACT	
Total Nitrogen, ppm N	32.9
Organic Nitrogen, ppm N	7.0
Organic Carbon, ppm C	125
Ammonium, ppm NH_4-N	4.6
Nitrate, ppm NO_3-N	21.34

AVAILABLE NITROGEN LBS/ACRE	
Ammonium-N, Lbs/Acre	11
Nitrate-N, Lbs/Acre	51
Organic Nitrogen, Lbs/Acre	17
Organic Nitrogen Release, Lbs/Acre	17
Organic Nitrogen Reserve, Lbs/Acre	< 0.01

SOIL HEALTH	
Soil Respiration, ppm CO_2C	52.1
Water Stable Aggregates (Mod), %	88
Includes 0.25-2 mm diameter sand grains	
Cover Crop Suggestion (Legume/Grass)	50%/50%
Soil Health Calculation	8.41

SOIL HEALTH	
Microbially Active Carbon, % MAC	41.7
Organic C:N	17.8
Organic Nitrogen Release, ppm N	7.0
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
7.3	--	0.38	NONE	11.0	106.2	243	1828	419	70	7.8	4.72	22.4	2.4	0.35	--	--	13.6	0	5	67	26	2

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Reviewed by: Jon Kerman **4/29/2026**

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