

<https://soilplantlab.missouri.edu/>

FIELD INFORMATION			
Field ID SOUTH HAY	Sample no 1		
Acres 35	Last Limed < 1 yr	Irrigated	No
Last crop 18 COOL SEASON GRASS HAY	FSA Copy N		

Serial no. T13892-1	Lab no. C2113929
County Laclede	Region 7
Submitted 8/4/2021	Processed 8/11/2021

Soil sample submitted by: Firm Number: Outlet

 This report is for:
 DAVID RUGGLES
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 FALCON MO 65470

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SOIL TEST INFORMATION			RATING					
			Very Low	Low	Medium	High	Very High	Excess
pH _s	(salt pH)	6.2	*****					
Phosphorus	(P)	25 lbs/A	*****					
Potassium	(K)	133 lbs/A	*****					
Calcium	(Ca)	2547 lbs/A	*****					
Magnesium	(Mg)	165 lbs/A	*****					
Sulfur	(SO ₄ -S)	ppm						
Zinc	(Zn)	ppm						
Manganese	(Mn)	ppm						
Iron	(Fe)	ppm						
Copper	(Cu)	ppm						
Organic matter	3.8	%	Neutralizable acidity	1.0	meg/100g	Cation Exch. Capacity	8.2	meg/100g
PH in water			Electrical Conductivity		Mmho/cm	Sodium (Na)		lbs/A
Nitrate (NO ₃ -N) Topsoil	ppm		Subsoil	ppm	Sampling Depth	Top	Inches	Subsoil
								Inches
NUTRIENT REQUIREMENTS							LIMESTONE SUGGESTIONS	
Cropping options	Yield goal	Pounds per acre						
		N	P ₂ O ₅	K ₂ O	Zn	S		
18 COOL SEASON GRASS HAY	2 T/A	80	35	95			Effective Neutralizing Material (ENM)	0
18 COOL SEASON GRASS HAY	3 T/A	120	45	125			Effective magnesium (EMg)	***
6 OVERSEEDING LEGUMES	0	0	35	25				

Comments

—For hay production apply nitrogen just before spring growth begins (typically March). Consider splitting nitrogen applications if the rate exceeds 90 lbs N/acre, applying 60% in March and the balance in mid August.

—Some herbicide labels list restrictions based on soil pH in water. This sample has an estimated pH in water of 6.7. Use this estimated pH in water as a guide. If you wish to have soil pH in water analyzed, contact your dealer or Extension specialist listed below.

—No nitrogen fertilizer is recommended when establishing legumes because it promotes grass and weed competition.

***Limestone is not currently recommended. For a future limestone application, suggest using dolomitic limestone if readily available, but yield response to magnesium is not likely.

THIS FIELD LOOKS GOOD

JUST FOLLOW YOUR FERT. RECOMMENDATION.

Regional Agronomy Specialist William Halleran

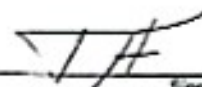
White-Farmer, Yellow-FSA, Blue-Firm, Pink-Extension

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Signature

Columbia