



Predictive

# Waste Report

[Links to Helpful Information](#)

Client: Kent Davenport  
 Sasser's Mill Livestock  
 2959 Wyse Fork Rd  
 Dover, NC 28526  
 Jones County

Advisor:

Farm: 52-72

Sampled: 03/13/2021  
 Received: 03/24/2021  
 Completed: 03/29/2021

PALS #: 233608

PALS #:

Sample Information	Nutrient Measurements are given in units of parts per million (ppm), unless otherwise specified.												Other Results			
	Nitrogen (N)	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	C	Al	Na	Cl
ID: SOW	Total N:	50.2	322	46.4	27.7	10.8	0.91	0.09	0.58	0.11	0.72	-	-	0.31	139	-
Code: ALF	Total Kjeldahl N: 146															
Description: Swine-Farrow to Ween Lagoon	Inorganic:	SS (10 <sup>-5</sup> S/cm)		EC (mS/cm)	pH (Unitless)	BD (lb/yd <sup>3</sup> )	CCE (%)	ALE (1000 gal)	C:N (Unitless)	DM (%)						
Grower Comments: Not Provided	NH <sub>4</sub> -N	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	-
	NO <sub>3</sub> -N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Application Method:	Estimate of Nutrients Available for First Year (lb/1000 gal)												Other Results (lb/1000 gal)			
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Al	Na	Cl	
	Irrigation	0.61	0.96	3.22	0.39	0.23	0.09	0.01	0.00	0.01	0.00	0.01	-	0.00	1.16	-
Irrigation	0.61	0.96	3.22	0.39	0.23	0.09	0.01	0.00	0.01	0.00	0.01	-	0.00	1.16	-	



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.

- Steve Troxler, Commission of Agriculture.

Kent Davenport

Sampled: 03/13/2021 | Received: 03/24/2021 | Completed: 03/29/2021

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Sample Information	Nutrient Measurements are given in units of parts per million (ppm), unless otherwise specified.												Other Results			
	Nitrogen (N)	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	C	Al	Na	Cl
ID: GILT Code: ALS Description: Swine Lagoon Liq. Grower Comments: Not Provided	Total N:	46.2	257	28.1	21.1	11.2	0.46	0.03	0.14	0.05	0.61	-	-	0.29	115	-
	Total Kjeldahl N: 11.8															
	Inorganic:															
	NH <sub>4</sub> -N	SS	EC	pH	BD	CCE	ALE	C:N	DM							
	NO <sub>3</sub> -N	(10 <sup>-5</sup> S/cm)	(mS/cm)	(Unitless)	(lb/yd <sup>3</sup> )	(%)	(1000 gal)	(Unitless)	(%)							
		-	-	7.20	-	-	-	-	-							
Application Method:	Estimate of Nutrients Available for First Year (lb/1000 gal)												Other Results (lb/1000 gal)			
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	Al	Na	Cl	
	Irrigation	0.05	0.88	2.57	0.24	0.18	0.09	0.00	0.00	0.00	0.00	0.01	-	0.00	0.96	-
Irrigation	0.05	0.88	2.57	0.24	0.18	0.09	0.00	0.00	0.00	0.00	0.01	-	0.00	0.96	-	

**Agronomist's Comments:** Values of nitrogen below 20 ppm are below the detection limit for the method that NCDA&CS uses.



Predictive

# Soil Report

Mehlich-3 Extraction

**Client:** Kent Davenport  
 Sasser's Mill Livestock  
 2959 Wyse Fork Rd  
 Dover, NC 28526

**Advisor:** Shane Sykes  
 Nutrien Ag Solutions  
 372 Hwy 58 South  
 Trenton, NC 28585

[Links to Helpful Information](#)

Sampled County : Jones  
**Client ID:** 233608

**Advisor ID:** 403805

Sampled: 03/23/2021 Received: 03/30/2021 Completed: 04/08/2021 Farm:

<b>Sample ID:</b> SHP1	<b>Recommendations:</b>	<b>Lime</b>										<b>More Information</b> <a href="#">Note: 3</a>
		<b>(tons/acre)</b>										
	<b>Crop</b>	<b>N</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>K<sub>2</sub>O</b>	<b>Mg</b>	<b>S</b>	<b>Mn</b>	<b>Zn</b>	<b>Cu</b>	<b>B</b>		
<b>Lime History:</b>	1 - SG/Soybean (DC)	0.5	80-100	0	60	0	0	0	0	0	0	
	2 -	0.0										

**Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:** **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.60	1.28	4.2	73	1.2	5.6	178	49	52	15	39	57	44		69	69	53	0.1	2		

<b>Sample ID:</b> SHP2	<b>Recommendations:</b>	<b>Lime</b>										<b>More Information</b> <a href="#">Note: 3</a>
		<b>(tons/acre)</b>										
	<b>Crop</b>	<b>N</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>K<sub>2</sub>O</b>	<b>Mg</b>	<b>S</b>	<b>Mn</b>	<b>Zn</b>	<b>Cu</b>	<b>B</b>		
<b>Lime History:</b>	1 - SG/Soybean (DC)	1.3	80-100	0	130	0	0	0	0	0	0	
	2 -	0.0										

**Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:** **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
2.22	1.30	5.7	60	2.2	5.2	76	28	44	14	42	27	26		63	63	39	0.1	2		

<b>Sample ID:</b> SHP3	<b>Recommendations:</b>	<b>Lime</b>										<b>More Information</b> <a href="#">Note: 3</a>
		<b>(tons/acre)</b>										
	<b>Crop</b>	<b>N</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>K<sub>2</sub>O</b>	<b>Mg</b>	<b>S</b>	<b>Mn</b>	<b>Zn</b>	<b>Cu</b>	<b>B</b>		
<b>Lime History:</b>	1 - SG/Soybean (DC)	0.5	80-100	0	130	0	0	0	0	0	0	
	2 -	0.0										

**Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:** **Soil Class:** Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
1.02	1.28	4.8	72	1.4	5.7	198	30	54	15	45	32	29		44	44	34	0.1	2		



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Sample ID: SHP7  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - SG/Soybean (DC)	0.3	80-100	0	120	0	0	0	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm <sup>3</sup> ; CEC and Na in meq/100 cm <sup>3</sup> ; NO <sub>3</sub> -N in mg/dm <sup>3</sup> ]:																			Soil Class: Mineral		
HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N	
0.27	1.26	3.3	69	1.0	5.8	163	32	45	18	38	43	36		50	50	45	0.1	3			

Sample ID: SHP8  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - Corn, grain	0.0	120 - 160	0	30	0	0	0	0	2	0	
	2 -	0.0										

Test Results [units - W/V in g/cm <sup>3</sup> ; CEC and Na in meq/100 cm <sup>3</sup> ; NO <sub>3</sub> -N in mg/dm <sup>3</sup> ]:																			Soil Class: Mineral		
HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N	
0.32	1.23	4.5	80	0.9	6.0	184	60	51	23	37	58	52		53	53	23	0.1	2			

Sample ID: SHP12  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - Corn, grain	0.6	120 - 160	0	70	0	0	0	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm <sup>3</sup> ; CEC and Na in meq/100 cm <sup>3</sup> ; NO <sub>3</sub> -N in mg/dm <sup>3</sup> ]:																			Soil Class: Mineral		
HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N	
0.60	1.31	4.2	67	1.4	5.6	318	36	48	15	38	68	58		77	77	38	0.1	2			

Sample ID: SHP1G  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - SG/Soybean (DC)	0.5	80-100	0	0	0	0	0	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm <sup>3</sup> ; CEC and Na in meq/100 cm <sup>3</sup> ; NO <sub>3</sub> -N in mg/dm <sup>3</sup> ]:																			Soil Class: Mineral		
HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N	
0.51	1.22	4.1	71	1.2	5.5	210	91	45	15	48	89	63		76	76	43	0.2	5			

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Sample ID: SHP1B  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - SG/Soybean (DC)	0.7	80-100	0	80	0	0	0	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:

Soil Class: Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.51	1.27	3.9	65	1.4	5.4	189	44	45	13	45	48	39		58	58	40	0.1	3		

Sample ID: SHP3G  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - SG/Soybean (DC)	0.5	80-100	0	0	0	0	0	0	2	0	
	2 -	0.0										

Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:

Soil Class: Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.27	1.28	3.7	72	1.0	5.5	158	83	44	17	40	50	40		41	41	22	0.2	5		

Sample ID: SHP3B  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 3
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - SG/Soybean (DC)	0.5	80-100	0	80	0	0	0	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:

Soil Class: Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.92	1.27	4.5	71	1.3	5.6	157	43	49	17	44	28	27		39	39	31	0.1	2		

Sample ID: SAS1  Lime History:	Recommendations:	Lime	Nutrients (lb/acre)									More Information Note: 12 Note: \$
	Crop	(tons/acre)	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
	1 - Bermuda hay/past., M	0.0	180-220	0	110	0	0	pH\$	0	0	0	
	2 -	0.0										

Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:

Soil Class: Mineral

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-AI1	Mn-AI2	Zn-I	Zn-AI	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.60	1.19	7.7	94	0.5	6.7	378	52	68	22	33	160	103		102	102	33	0.1	1		

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Sample ID: SAS2	Recommendations:	Lime (tons/acre)	Nutrients (lb/acre)									More Information <u>Note: 12</u> <u>Note: \$</u>
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Mg	S	Mn	Zn	Cu	B	
Lime History:	1 - Bermuda hay/past., M	0.0	180-220	0	70	0	0	pH\$	0	0	0	
	2 -	0.0										

**Test Results [units - W/V in g/cm<sup>3</sup>; CEC and Na in meq/100 cm<sup>3</sup>; NO<sub>3</sub>-N in mg/dm<sup>3</sup>]:**

**Soil Class: Mineral**

HM%	W/V	CEC	BS%	Ac	pH	P-I	K-I	Ca%	Mg%	S-I	Mn-I	Mn-Al1	Mn-Al2	Zn-I	Zn-Al	Cu-I	Na	ESP	SS-I	NO <sub>3</sub> -N
0.66	1.23	6.3	92	0.5	6.7	274	69	63	24	36	157	100		112	112	34	0.2	3		

**Understanding the Soil Report: explanation of measurements, abbreviations and units**

**Recommendations**

Lime

If testing finds that soil pH is too low for the crop(s) indicated, a **lime recommendation** will be given in units of either ton/acre or lb/1000 sq ft. For best results, mix the lime into the top 6 to 8 inches of soil several months before planting. For no-till or established plantings where this is not possible, apply no more than 1 to 1.5 ton/acre (50 lb/1000 sq ft) at one time, even if the report recommends more. You can apply the rest in similar increments every six months until the full rate is applied. If MG is recommended and lime is needed, use dolomitic lime.

Fertilizer

Recommendations **for field crops or other large areas** are listed separately for each nutrient to be added (in units of lb/acre unless otherwise specified). Recommendations for N (and sometimes for B) are based on research/field studies for the crop being grown, not on soil test results. K-I and P-I values are based on test results and should be > 50. If they are not, follow the fertilizer recommendations given. If Mg is needed and no lime is recommended, 0-0-22 (11.5% Mg) is an excellent source; 175 to 250 lb per acre alone or in a fertilizer blend will usually satisfy crop needs, SS-I levels appear only on reports for greenhouse soil or problem samples.

Farmers and other commercial producers should pay special attention to **micronutrient levels**. If \$, pH\$, \$pH, C or Z notations appear on the soil report, refer to Note: Secondary Nutrients and Micronutrients. In general, homeowners do not need to be concerned about micronutrients. Various crop notes also address lime fertilizer needs; visit [ncagr.gov/agronomi/pubs.htm](http://ncagr.gov/agronomi/pubs.htm).

Recommendations **for small areas, such as home lawns/gardens**, are listed in units of lb/1000 sq ft. If you cannot find the exact fertilizer grade recommended on the report, visit [www.ncagr.gov/agronomi/obpart4.htm](http://www.ncagr.gov/agronomi/obpart4.htm) for information that may help you choose a comparable alternate. For more information, read A Homeowner's Guide to Fertilizer.

**Test Results**

The first seven values [soil class, HM%, W/V, CEC, BS%, Ac and pH] describe the soil and its degree of acidity. The remaining 16 [P-I, K-I, Ca%, Mg%, Mn-I, Mn-AI1, Mn-AI2, Zn-I, Zn-AI, Cu-I, S-I, SS-I, Na, ESP, SS-I, NO3-N (not routinely available)] indicate levels of plant nutrients or other fertility measurement. Visit [www.ncagr.gov/agronomi/uvrst.htm](http://www.ncagr.gov/agronomi/uvrst.htm)

**Report Abbreviations**

<b>Ac</b>	exchangeable acidity
<b>B</b>	boron
<b>BS%</b>	% CEC occupied by basic cations
<b>Ca%</b>	% CEC occupied by calcium
<b>CEC</b>	cation exchange capacity
<b>Cu-I</b>	copper index
<b>ESP</b>	exchangeable sodium percent
<b>HM%</b>	percent humic matter
<b>K-I</b>	potassium index
<b>K2O</b>	potash
<b>Mg%</b>	% CEC occupied by magnesium
<b>MIN</b>	mineral soil class
<b>Mn</b>	manganese
<b>Mn-AI1</b>	Mn-availability index for crop 1
<b>Mn-AI2</b>	Mn-availability index for crop 2
<b>Mn-I</b>	manganese index
<b>M-O</b>	mineral-organic soil class
<b>N</b>	nitrogen
<b>Na</b>	sodium
<b>NO3-N</b>	nitrate nitrogen
<b>ORG</b>	organic soil class
<b>pH</b>	current soil pH
<b>P-I</b>	phosphorus index
<b>P2O5</b>	phosphate
<b>S-I</b>	sulfur index
<b>SS-I</b>	soluble salt index
<b>W/V</b>	weight per volume
<b>Zn-AI</b>	zinc availability index
<b>Zn-I</b>	zinc index