From:	C H Hog Farms Inc
To:	Water Permit Application
Subject:	EC Farms Annual Report
Date:	Thursday, February 6, 2020 6:19:41 PM
Attachments:	EC Farms ADEQ Annual Report 2019.pdf 2019 Manure Analysis.pdf Soil Samples 3-30-15.pdf

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Please see the attached for the 2019 Annual Report for EC Farms.

Thanks

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
ANNUAL REPORT FORM FOR PERMITTED
LIQUID ANIMAL WASTE MANGAMENT SYSTEMS

Reporting Period:	2019

PERMITTEE NAME: Ellis Campbell/EC Farms **PERMIT NUMBER:** 3540-WR-7

PHONE NUMBER: 870-688-8992 **AFIN NUMBER:** 51-00020

FACILITY TYPE AND SIZE: Land Application Only
(ie., 200 Cow Dairy, 2,500 Swine Finishing, 80,000 Bird Layer Operation, etc.)

WASTE DISPOSAL SYSTEM CONSISTS OF: n/a
(ie., Holding Pond, Holding Pond & Settling Basin, Concrete Holding Tank, etc.)

WASTE APPLICATION METHOD: Tank Spreader
(ie., Tank Spreader, Irrigation System, etc.)

NO. OF APPLICATION FIELDS: 32

TOTAL AVAILABLE ACREAGE: 551.2

WASTEWATER SAMPLE LOCATION: C+H Hog Farms, Inc. Holding Pond 1 and Holding Pond 2
(Lagoon During Pumping or Field During Application)

You must submit a copy of the **wastewater analysis** for each sample provided to the University Of Arkansas Cooperative Extension Service or a private lab. The wastewater analysis must include: pH (su), Total Nitrogen, Ammonia Nitrogen, Total Potassium, Total Phosphorus, and Percent Solids.

You must submit a copy of the **soil analysis** for each field with this form. The soil analysis must include: pH (su), Potassium (lbs/ac), Phosphorus (lbs/ac), and Nitrates (lbs/ac). Sampling and analysis should be conducted in accordance with the University Of Arkansas Cooperative Extension Service guidelines unless otherwise specified.

Complete the tables on the back to report the **nitrogen and phosphorus application rate**. The table for phosphorus application rate is only required to be completed if required by your permit.

You must sign and date this report and submit it to the Department prior to May 30th of each year. Please keep a copy of this report, the soil analysis, and the wastewater analysis for your record at the facility.

I certify under penalty of law that I have examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information.

Ellis Campbell	Ellis Campbell	2-6-2020
Owner or Operator (Please Print)	Signature	Date

Mail complete annual report form and annual application report to:
Arkansas Department of Environmental Quality
Permits Branch, Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118

ANNUAL ANIMAL WASTE LAND APPLICATION REPORT
Nitrogen Application Rate*

PERMITTEE NAME: Ellis Campbell / EC Farms **PERMIT NUMBER:** 3540 - WR-7

Field Name or/and Number	Crop Type	Total** Area Applied (acres)	Total*** Volume Applied (gallons)	Total**** Nitrogen (lbs/1000 gal.)	Calculated Nitrogen Applied (lbs/ac)
(1)	(2)	(3)	(4)	(5)	(6)
MM1	Mixed	13.8	96,000	16.3	85
MM2	Mixed	29.8	240,000	16.3	98.4
MM3	Mixed	10.9	66,000	16.3	74
RC3	Mixed	12	102,000	16.3	103.9
RC4	Mixed	18.4	39,000	16.3	25.9
RM1	Mixed	17	51,000	16.3	36.7
RM2	Mixed	21.3	180,000	16.3	103.3

* An updated Arkansas Nutrient Management Planner based on the waste and soil analyses may be submitted in place of this table.

**Total available area is the area where manure was applied during the reporting period (this data can be obtained from the management plan).

***Total volume applied is the total volume applied to the field during the whole reporting period (this data can be obtained from record sheet).

****Total Nitrogen concentration (lbs/1000 gallons) can be obtained from the wastewater analysis sheet.

Column (6) = Nitrogen Applied (lbs/ac) = Column (4) X Column (5) ÷ Column (3) ÷ 1,334

NOTE: You may make additional copies of this table as needed.

ANNUAL ANIMAL WASTE LAND APPLICATION REPORT
Phosphorus Application Rate*

PERMITTEE NAME: Ellis Campbell / EC Farms **PERMIT NUMBER:** 3540-WR-7

Field Name or/and Number	Crop Type	Total** Area Applied (acres)	Total*** Volume Applied (gallons)	Total**** Phosphorus As P_2O_5 (lbs/1000 gal.)	Calculated Phosphorus Applied (lbs/ac)
(1)	(2)	(3)	(4)	(5)	(6)
MM1	Mixed	13.8	96,000	51.1	355.5
MM2	Mixed	29.8	240,000	51.1	411.5
MM3	Mixed	10.9	66,000	51.1	309.4
RC3	Mixed	12	102,000	51.1	434.4
RC4	Mixed	18.4	39,000	51.1	108.3
RM1	Mixed	17	51,000	51.1	153.3
RM2	Mixed	21.3	180,000	51.1	431.8

*The Phosphorus Application Rate only needs to be reported if required by your permit. An updated Arkansas Nutrient Management Planner based on the waste and soil analyses may be submitted in place of this table.

**Total available area is the area where manure was applied during the reporting period (this data can be obtained from the management plan).

***Total volume applied is the total volume applied to the field during the whole reporting period (this data can be obtained from record sheet).

****Total Phosphorus as P_2O_5 concentration (lbs/1000 gallons) can be obtained from the wastewater analysis sheet.

Column (6) = Phosphorus Applied (lbs/ac) = Column (4) X Column (5) ÷ Column (3) ÷ 1,000

NOTE: You may make additional copies of this table as needed.

AGRICULTURAL DIAGNOSTIC SERVICE LABORATORY
1366 W. Altheimer Dr., Fayetteville, AR 72704
(479)575-3908 agrilab@uark.edu
University of Arkansas, Dept. of Crops, Soils, and Environmental Science
LIQUID MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

Name:	DR. KARL VanDEVENDER	***Received in lab:***	***2/19/2019***
Address:	2301 S UNIVERSITY AVE	***Report e-mailed:***	***3/06/2019***
City, State, Zip:	LITTLE ROCK, AR 72204	Phone #:	
County:		Payment Info:	BCRET Fund
E-Mail:	kvandevender@uaex.edu, sharpley@uark.edu		

Lab. No.	M90178	M90178
Sample No.	P1C	P1C
Animal type	swine	
-age/lbs	no info	
Bedding type	none	
Manure type	pond liquid	
Sample date	2/19/2019	
Age of manure	no info	
pH	7.6	
Ec(µmhos) 1:2	11800	
% Solids	6.55	

-mg/L on as-is basis-

Total N	1951	Total Mg		Water Extractable P	197
		Total S			
Total P	2681	Total Na			
		Total Fe			
Total K	1243	Total Mn			
Total Ca	2769	Total Zn			
Total C		Total Cu			
NO3-N		Total B			
NH4-N	1096	Total Al			

-lbs/1000 gal on as-is basis-

N	16.3	Mg		Water Extractable P	1.6
P2O5	51.1	S			
K2O	12.5	Na			
Ca	23.1	Fe			
Carbon		Mn			
NO3-N		Zn			
NH4-N	9.1	Cu			
		B			
		Al			

***All analyses performed on as-is basis.
*lbs/1000gal P2O5 = mg/l Total P on "as-is" basis multiplied by 2.29*0.00833
*lbs/1000gal K2O = mg/l Total K on "as-is" basis multiplied by 1.2*0.00833
*Water Extractable P: 1:100 solids to H2O ratio, I hr shake, centrifuged, filtered, acidified, analysis by ICP

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LIQUID MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

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City, State, Zip:	LITTLE ROCK, AR 72204	Phone #:	
County:		Payment Info:	BCRET Fund
E-Mail:	kvandevender@uaex.edu, sharpley@uark.edu		

Lab. No.	M90179	M90179
Sample No.	P2C	P2C
Animal type	swine	
-age/lbs	no info	
Bedding type	none	
Manure type	pond liquid	
Sample date	2/19/2019	
Age of manure	no info	
pH	8.2	
Ec(µmhos) 1:2	6210	
% Solids	0.47	

-mg/L on as-is basis-

Total N	146	Total Mg		Water Extractable P	43
		Total S			
Total P	82	Total Na			
		Total Fe			
Total K	761	Total Mn			
Total Ca	53	Total Zn			
Total C		Total Cu			
NO3-N		Total B			
NH4-N	140	Total Al			

-lbs/1000 gal on as-is basis-

N	1.2	Mg		Water Extractable P	0.4
P2O5	1.6	S			
K2O	7.7	Na			
Ca	0.4	Fe			
Carbon		Mn			
NO3-N		Zn			
NH4-N	1.2	Cu			
		B			
		Al			

***All analyses performed on as-is basis.
*lbs/1000gal P2O5 = mg/l Total P on "as-is" basis multiplied by 2.29*0.00833
*lbs/1000gal K2O = mg/l Total K on "as-is" basis multiplied by 1.2*0.00833
*Water Extractable P: 1:100 solids to H2O ratio, I hr shake, centrifuged, filtered, acidified, analysis by ICP

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
http://soiltest.uaex.edu

EC FARMS	Client ID:	8706888992
PO BOX 52		
VENDOR	AR	72683

Date Processed:	3/30/2015
Field ID:	CC 1
Acres	5
Lime Applied in the last 4 years	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Newton
Lab Number:	49145
Sample Number:	3250711

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	374	748	Above Optimum
K	94	188	Medium
Ca	901	1802	--
Mg	200	400	--
SO4-S	16	32	--
Zn	19.2	38.4	--
Fe	188	376	--
Mn	224	448	--
Cu	6.8	13.6	--
B	0	0	--
NO3-N	16	32	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6	--
Soil EC (1:2 soil-water)	28	umhos/cm
Soil Estimated CEC	9.47	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
68.32	47.58	17.60	2.55	0.60

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Hay (142)							
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	220	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	180	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	0	150	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID: 8706888992
PO BOX 52	
VENDOR	AR 72683
Date Processed:	3/30/2015
Field ID:	JG A
Acres:	14
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Newton
Lab Number:	49161
Sample Number:	3250726

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	351	702	Above Optimum
K	79	158	Low
Ca	813	1626	--
Mg	178	356	--
SO4-S	18	36	--
Zn	19.6	39.2	--
Fe	182	364	--
Mn	220	440	--
Cu	8.2	16.4	--
B	0	0	--
NO3-N	30	60	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.7	--
Soil EC (1:2 soil-water)	42	umhos/cm
Soil Estimated CEC	9.82	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
59.27	41.39	15.10	2.06	0.71

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	100	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	260	0	0	0	4000
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	220	0	0	0	4000

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS PO BOX 52 VENDOR	Client ID: 8706888992 AR 72683
Date Processed:	3/30/2015
Field ID:	EC A
Acres:	5
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Newton
Lab Number:	49143
Sample Number:	3250709

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	93	186	Above Optimum
K	75	150	Low
Ca	459	918	--
Mg	72	144	--
SO4-S	17	34	--
Zn	3.5	7	--
Fe	151	302	--
Mn	144	288	--
Cu	1.9	3.8	--
B	0	0	--
NO3-N	7	14	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.2	--
Soil EC (1:2 soil-water)	18	umhos/cm
Soil Estimated CEC	8.65	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Sandy Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
36.40	26.54	6.94	2.22	0.70

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	100	0	0	0	4000
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS		Client ID	8706888992
PO BOX 52			
VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	HB 1
Acres	11
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49163
Sample Number	3250728

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	13	26	Very Low
K	119	238	Medium
Ca	943	1886	--
Mg	73	146	--
SO4-S	20	40	--
Zn	3.4	6.8	--
Fe	108	216	--
Mn	292	584	--
Cu	0.8	1.6	--
B	0	0	--
NO3-N	16	32	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)	28	umhos/cm
Soil Estimated CEC	8.72	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
65.61	54.05	6.97	3.50	1.10

3. Recommendations

(Notice State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	120	60	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID	8706888992
PO BOX 52		
VENDOR	AR	72683

Date Processed	3/30/2015
Field ID	HB 2
Acres	20
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49156
Sample Number	3250721

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	16	32	Low
K	147	294	Optimum
Ca	571	1142	--
Mg	73	146	--
SO4-S	14	28	--
Zn	1.6	3.2	--
Fe	105	210	--
Mn	186	372	--
Cu	0.8	1.6	--
B	0	0	--
NO3-N	13	26	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)	21	umhos/cm
Soil Estimated CEC	6.90	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
56.50	41.40	8.82	5.47	0.82

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	80	40	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID:	8706888992
PO BOX 52		
VENDOR	AR	72683

Date Processed	3/30/2015
Field ID:	LCM 1
Acres:	19
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County	Newton
Lab Number	49162
Sample Number	3250727

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	29	58	Medium
K	63	126	Low
Ca	1389	2778	--
Mg	35	70	--
SO4-S	11	22	--
Zn	1.2	2.4	--
Fe	81	162	--
Mn	51	102	--
Cu	0.8	1.6	--
B	0	0	--
NO3-N	13	26	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.5	--
Soil EC (1:2 soil-water)	29	umhos/cm
Soil Estimated CEC	10.01	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
75.03	69.37	2.91	1.61	1.13

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)	lb/acre						
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	40	100	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	90	260	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	80	220	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS		Client ID	8706888992
PO BOX 52			
VENDOR		AR	72683
Date Processed	3/30/2015		
Field ID	LCM2		
Acres	16		
Lime Applied in the last 4 years	No		
Leveled in past 4 years	No		
Irrigation	Unknown		
County	Newton		
Lab Number	49148		
Sample Number	3250715		

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	12	24	Very Low
K	59	118	Very Low
Ca	943	1886	
Mg	71	142	--
SO4-S	15	30	--
Zn	2.1	4.2	--
Fe	114	228	--
Mn	380	760	--
Cu	1	2	--
B	0	0	
NO3-N	18	36	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)	27	umhos/cm
Soil Estimated CEC	8.53	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
64.84	55.26	6.93	1.77	0.87

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	135	310	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	120	270	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	105	230	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID: 8706888992
PO BOX 52	
VENDOR	AR 72683

Date Processed:	3/30/2015
Field ID:	LCM3
Acres:	19
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Newton
Lab Number:	49151
Sample Number:	3250718

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	34	68	Medium
K	66	132	Low
Ca	1072	2144	--
Mg	69	138	--
SO4-S	13	26	--
Zn	2.4	4.8	--
Fe	105	210	--
Mn	115	230	--
Cu	1.4	2.8	--
B	0	0	--
NO3-N			--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)		umhos/cm
Soil Estimated CEC	9.20	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
67.38	58.29	6.25	1.84	0.99

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Hay (142)							
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	90	260	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	80	220	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	60	180	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID: 8706888992
PO BOX 52	
VENDOR	AR 72683
Date Processed:	3/30/2015
Field ID:	RM 1
Acres:	82
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Newton
Lab Number:	49138
Sample Number:	3250705

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	9	18	Very Low
K	48	96	Very Low
Ca	375	750	--
Mg	49	98	--
SO4-S	8	16	--
Zn	1.6	3.2	--
Fe	130	260	--
Mn	116	232	--
Cu	0.6	1.2	--
B	0	0	--
NO3-N	2	4	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)	8	umhos/cm
Soil Estimated CEC	5.46	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Sandy Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
45.04	34.35	7.48	2.25	0.96

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	120	160	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID: 8706888992
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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	RM 2
Acres	21
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49139
Sample Number	3250706

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	87	174	Above Optimum
K	69	138	Low
Ca	522	1044	--
Mg	61	122	--
SO4-S	10	20	--
Zn	4	8	--
Fe	193	386	--
Mn	227	454	--
Cu	1.5	3	--
B	0	0	--
NO3-N	4	8	

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.6	--
Soil EC (1:2 soil-water)	9	umhos/cm
Soil Estimated CEC	7.34	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
45.49	35.56	6.93	2.41	0.59

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	100	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	260	0	0	0	4000
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	220	0	0	0	4000

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS		Client ID	8706888992
PO BOX 52			
VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	MM1
Acres	3
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49130
Sample Number	3250697

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	60	120	Above Optimum
K	90	180	Low
Ca	2091	4182	--
Mg	98	196	--
SO4-S	13	26	--
Zn	4.7	9.4	--
Fe	199	398	--
Mn	225	450	--
Cu	3.1	6.2	--
B	0	0	--
NO3-N	8	16	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.3	--
Soil EC (1:2 soil-water)	19	umhos/cm
Soil Estimated CEC	15.11	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silty Clay Loam - Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
76.84	69.19	5.40	1.53	0.72

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	100	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	260	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	220	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID 8706888992
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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	MM2
Acres	30
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49133
Sample Number	3250700

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	102	204	Above Optimum
K	118	236	Medium
Ca	1440	2880	--
Mg	105	210	--
SO4-S	13	26	--
Zn	5.8	11.6	--
Fe	197	394	--
Mn	190	380	--
Cu	2.8	5.6	--
B	0	0	--
NO3-N	7	14	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.9	--
Soil EC (1:2 soil-water)	17	umhos/cm
Soil Estimated CEC	11.94	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
70.68	60.31	7.33	2.53	0.51

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	220	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	180	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID: 8706888992
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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	MM3
Acres	11
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49132
Sample Number	3250699

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	65	130	Above Optimum
K	144	288	Optimum
Ca	1846	3692	--
Mg	93	186	--
SO4-S	11	22	--
Zn	4.7	9.4	--
Fe	194	388	--
Mn	145	290	--
Cu	2.5	5	--
B	0	0	--
NO3-N	10	20	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.7	--
Soil EC (1:2 soil-water)	22	umhos/cm
Soil Estimated CEC	13.43	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
77.66	68.72	5.77	2.75	0.42

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	40	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	180	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	150	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS PO BOX 52 VENDOR	Client ID AR	8706888992 72683
Date Processed: Field ID Acres Lime Applied in the last 4 years Leveled in past 4 years Irrigation:		3/30/2015 RC3 12 No No Unknown
County Lab Number: Sample Number		Newton 49131 3250698

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	86	172	Above Optimum
K	47	94	Very Low
Ca	592	1184	--
Mg	57	114	--
SO4-S	13	26	--
Zn	2.9	5.8	--
Fe	174	348	--
Mn	190	380	--
Cu	1.5	3	--
B	0	0	--
NO3-N	2	4	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.5	--
Soil EC (1:2 soil-water)	15	umhos/cm
Soil Estimated CEC	8.12	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
44.56	36.47	5.85	1.48	0.75

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Hay (142)							
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	310	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	270	0	0	0	4000
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	0	230	0	0	0	4000

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID: 8706888992
PO BOX 52	
VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	RC 4
Acres	18
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49142
Sample Number	3250708

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	20	40	Low
K	220	440	Above Optimum
Ca	594	1188	--
Mg	106	212	--
SO4-S	15	30	--
Zn	2.8	5.6	--
Fe	124	248	--
Mn	365	730	--
Cu	1.2	2.4	--
B	0	0	--
NO3-N	5	10	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6	--
Soil EC (1:2 soil-water)	19	umhos/cm
Soil Estimated CEC	7.50	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
59.98	39.62	11.78	7.53	1.04

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	80	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS PO BOX 52 VENDOR	Client ID AR	8706888992 72683

Date Processed	3/30/2015
Field ID	PC1
Acres	18
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49140
Sample Number	3250707

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	30	60	Medium
K	206	412	Above Optimum
Ca	973	1946	--
Mg	154	308	--
SO4-S	22	44	--
Zn	3.3	6.6	--
Fe	140	280	--
Mn	178	356	--
Cu	1.2	2.4	--
B	0	0	--
NO3-N	6	12	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.4	--
Soil EC (1:2 soil-water)	15	umhos/cm
Soil Estimated CEC	11.26	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
60.03	43.21	11.40	4.69	0.73

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)	lb/acre						
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	40	0	0	0	0	5000
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID 8706888992
PO BOX 52	
VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	CB1
Acres	7
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49135
Sample Number	3250702

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	129	258	Above Optimum
K	103	206	Medium
Ca	1286	2572	--
Mg	226	452	--
SO4-S	17	34	--
Zn	7.8	15.6	--
Fe	140	280	--
Mn	266	532	
Cu	1.5	3	--
B	0	0	--
NO3-N	14	28	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.6	--
Soil EC (1:2 soil-water)	21	umhos/cm
Soil Estimated CEC	11.16	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
77.61	57.59	16.87	2.37	0.78

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	220	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	180	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID	8706888992
PO BOX 52		
VENDOR	AR	72683

Date Processed	3/30/2015
Field ID	CB 2
Acres	34
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49137
Sample Number	3250704

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	191	382	Above Optimum
K	326	652	Above Optimum
Ca	1465	2930	--
Mg	261	522	--
SO4-S	17	34	--
Zn	13 8	27 6	--
Fe	152	304	--
Mn	173	346	--
Cu	1 5	3	--
B	0	0	--
NO3-N	35	70	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6 5	--
Soil EC (1:2 soil-water)	37	umhos/cm
Soil Estimated CEC	12 94	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
80 69	56 59	16 80	6 46	0 84

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID	8706888992
PO BOX 52		
VENDOR	AR	72683

Date Processed	3/30/2015
Field ID	CB 4
Acres	16
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49136
Sample Number	3250703

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	123	246	Above Optimum
K	49	98	Very Low
Ca	1024	2048	--
Mg	121	242	--
SO4-S	11	22	--
Zn	4.6	9.2	--
Fe	171	342	--
Mn	145	290	--
Cu	1.6	3.2	--
B	0	0	--
NO3-N	4	8	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.1	--
Soil EC (1:2 soil-water)	12	umhos/cm
Soil Estimated CEC	9.35	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
67.90	54.79	10.79	1.34	0.98

3. Recommendations

(Notice State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	160	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	310	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	270	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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Date Processed	3/30/2015
Field ID	CB 5
Acres	2
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49160
Sample Number	3250725

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	109	218	Above Optimum
K	170	340	Optimum
Ca	1806	3612	--
Mg	182	364	--
SO4-S	14	28	--
Zn	6.7	13.4	--
Fe	166	332	--
Mn	173	346	--
Cu	2.1	4.2	--
B	0	0	--
NO3-N	19	38	

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.1	--
Soil EC (1:2 soil-water)	28	umhos/cm
Soil Estimated CEC	14.57	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
75.98	61.98	10.41	2.99	0.60

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	40	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID: 8706888992
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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	CB 6
Acres	13
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49134
Sample Number	3250701

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	204	408	Above Optimum
K	46	92	Very Low
Ca	1305	2610	--
Mg	108	216	--
SO4-S	13	26	--
Zn	6.3	12.6	--
Fe	173	346	--
Mn	142	284	--
Cu	2.1	4.2	--
B	0	0	--
NO3-N	7	14	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.3	--
Soil EC (1:2 soil-water)	12	umhos/cm
Soil Estimated CEC	10.63	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
71.77	61.41	8.47	1.11	0.78

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	160	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	0	310	0	0	0	0
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	270	0	0	0	0

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS		Client ID	8706888992
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VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	CB 7
Acres	44
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49113
Sample Number	3250731

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	135	270	Above Optimum
K	235	470	Above Optimum
Ca	1188	2376	--
Mg	202	404	--
SO4-S	20	40	--
Zn	7.8	15.6	--
Fe	139	278	--
Mn	199	398	--
Cu	1.2	2.4	--
B	0	0	--
NO3-N	49	98	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.5	--
Soil EC (1:2 soil-water)	75	umhos/cm
Soil Estimated CEC	10.88	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
77.02	54.61	15.47	5.54	1.40

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	CB 8
Acres	7
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49164
Sample Number	3250729

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	133	266	Above Optimum
K	243	486	Above Optimum
Ca	2376	4752	--
Mg	264	528	--
SO4-S	22	44	--
Zn	27.9	55.8	--
Fe	194	388	--
Mn	64	128	--
Cu	2.2	4.4	--
B	0	0	--
NO3-N	46	92	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.2	--
Soil EC (1:2 soil-water)	54	umhos/cm
Soil Estimated CEC	18.39	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silty Clay Loam - Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
80.97	64.60	11.96	3.39	1.02

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS		Client ID	8706888992
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VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	CB 9
Acres	20
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49159
Sample Number	3250724

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	64	128	Above Optimum
K	139	278	Optimum
Ca	2095	4190	--
Mg	188	376	--
SO4-S	15	30	--
Zn	3.9	7.8	--
Fe	165	330	--
Mn	83	166	--
Cu	1.2	2.4	--
B	0	0	--
NO3-N	16	32	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.8	--
Soil EC (1:2 soil-water)	40	umhos/cm
Soil Estimated CEC	17.52	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silty Clay Loam - Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
71.45	59.80	8.94	2.03	0.67

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	40	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses apply N in late winter. To favor warm-season grasses do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS		Client ID	8706888992
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VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	CB 10
Acres	30
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49157
Sample Number	3250722

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	75	150	Above Optimum
K	102	204	Medium
Ca	1095	2190	--
Mg	152	304	--
SO4-S	13	26	--
Zn	3.1	6.2	--
Fe	150	300	--
Mn	49	98	--
Cu	1.6	3.2	--
B	0	0	--
NO3-N	18	36	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.8	--
Soil EC (1:2 soil-water)	28	umhos/cm
Soil Estimated CEC	11.11	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
64.00	49.27	11.40	2.35	0.98

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS		Client ID	8706888992
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VENDOR		AR	72683

Date Processed	3/30/2015
Field ID	CB 11
Acres	10
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49114
Sample Number	3250732

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	167	334	Above Optimum
K	258	516	Above Optimum
Ca	6420	12840	--
Mg	221	442	--
SO4-S	19	38	--
Zn	15	30	--
Fe	127	254	--
Mn	66	132	--
Cu	2	4	--
B	0.2	0.4	--
NO3-N	46	92	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	6.9	--
Soil EC (1:2 soil-water)	96	umhos/cm
Soil Estimated CEC	37.25	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Clay	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
93.29	86.17	4.94	1.78	0.40

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID 8706688992
PO BOX 52	
VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	CB12
Acres	4
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49115
Sample Number	3250733

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	28	56	Medium
K	244	488	Above Optimum
Ca	3426	6852	--
Mg	518	1036	--
SO4-S	10	20	--
Zn	3.4	6.8	--
Fe	171	342	--
Mn	42	84	--
Cu	1.4	2.8	
B	0	0	
NO3-N	11	22	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.8	--
Soil EC (1:2 soil-water)	50	umhos/cm
Soil Estimated CEC	28.27	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Clay	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
78.77	60.60	15.27	2.21	0.69

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	40	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID: 8706888992
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VENDOR	AR 72683

Date Processed	3/30/2015
Field ID:	CB13
Acres	10
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown

County	Newton
Lab Number	49112
Sample Number:	3250730

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	63	126	Above Optimum
K	107	214	Medium
Ca	1346	2692	--
Mg	156	312	--
SO4-S	14	28	--
Zn	4	8	--
Fe	134	268	--
Mn	54	108	--
Cu	1	2	--
B	0	0	--
NO3-N	14	28	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.5	--
Soil EC (1:2 soil-water)	34	umhos/cm
Soil Estimated CEC	13.91	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam - Silty Clay Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
60.47	48.37	9.34	1.97	0.78

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)	lb/acre						
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	4000
Crop 2								
Crop 3								

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

6. Crop 3 Notes:

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EC FARMS	Client ID 8706888992
PO BOX 52	
VENDOR	AR 72683
Date Processed	3/30/2015
Field ID	GD 1
Acres	10
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49155
Sample Number	3250720

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	13	26	Very Low
K	117	234	Medium
Ca	409	818	--
Mg	77	154	--
SO4-S	22	44	--
Zn	2.9	5.8	--
Fe	105	210	--
Mn	404	808	--
Cu	1.3	2.6	--
B	0	0	--
NO3-N	8	16	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.2	--
Soil EC (1:2 soil-water)	21	umhos/cm
Soil Estimated CEC	8.56	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Sandy Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
35.75	23.89	7.50	3.50	0.86

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
		lb/acre						
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	120	60	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 5 ton (145)	200	135	220	0	0	0	4000
Crop 3	Mixed Cool and Warm Season Grasses 4 ton (144)	160	120	180	0	0	0	4000

4. Crop 1 Notes:

To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
http://soiltest.uaex.edu

EC FARMS	Client ID 8706888992
PO BOX 52	
VENDOR	AR 72683

Date Processed:	3/30/2015
Field ID	VI V1
Acres:	23
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County	Newton
Lab Number	49147
Sample Number	3250714

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	25	50	Low
K	57	114	Very Low
Ca	522	1044	-
Mg	41	82	
SO4-S	15	30	--
Zn	1.5	3	--
Fe	111	222	--
Mn	119	238	-
Cu	0.8	1.6	--
B	0	0	--
NO3-N	7	14	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.3	--
Soil EC (1:2 soil-water)	19	umhos/cm
Soil Estimated CEC	7.65	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Silt Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
41.14	34.14	4.47	1.91	0.63

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Hay (142)	lb/acre						
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	110	310	0	0	0	5000
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	100	270	0	0	0	5000
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	80	230	0	0	0	5000

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

5. Crop 2 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

6. Crop 3 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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EC FARMS	Client ID 8706888992
PO BOX 52	
VENDOR	AR 72683

Date Processed	3/30/2015
Field ID	VIV1A
Acres	13
Lime Applied in the last 4 years	No
Leveled in past 4 years	No
Irrigation	Unknown
County	Newton
Lab Number	49150
Sample Number	3250717

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	24	48	Low
K	60	120	Very Low
Ca	455	910	--
Mg	60	120	--
SO4-S	19	38	--
Zn	2.6	5.2	--
Fe	115	230	--
Mn	246	492	--
Cu	1.1	2.2	--
B	0	0	--
NO3-N	8	16	--

2. Soil Properties

Property	Value	Units
Soil pH (1:2 soil-water)	5.4	--
Soil EC (1:2 soil-water)	23	umhos/cm
Soil Estimated CEC	7.54	cmolc/kg
Organic Matter (Loss on Ignition)		%
Estimated Soil Texture	Sandy Loam	

Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
40.30	30.18	6.63	2.04	1.44

3. Recommendations

(Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Hay (142)	lb/acre						
Crop 1	Mixed Cool and Warm Season Grasses 5 ton (145)	200	110	310	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	100	270	0	0	0	4000
Crop 3	Mixed Cool and Warm Season Grasses 3 ton (143)	120	80	230	0	0	0	4000

4. Crop 1 Notes:

To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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