

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

REPORTING PERIOD: 2018

PERMITTEE NAME: Ellis Campbell/EC Farms PERMIT NUMBER: 5282-W

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 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.

IN ADDITION, 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.

PLEASE COMPLETE THE TABLE ON THE BACK FOR THE LAND APPLICATION REPORT. 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

OWNER OR OPERATOR (Please Print)

Ellis Campbell

SIGNATURE

3/11/19

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

PERMITTEENAME: Ellis Campbell/EC Farms PERMIT NUMBER: 5282-W

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)
Rm 2	Mixed	21.4	153,000	21.6	115.8
mm1	Mixed	13.8	99,000	21.6	116.2
mm2	Mixed	29.8	90,000	21.6	48.9
mm3	Mixed	10.9	36,000	21.6	53.5
RC 3	Mixed	12	84,000	21.6	113.3
RC4	Mixed	18.4	54,000	21.6	47.5
CB1	Mixed	12.5	69,000	21.6	89.4

*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.

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:	KARL VanDEVENDER	Received in lab:	2/09/2018
Address:	2301 S UNIVERSITY AVE	E- Mailed:	2/16/2018 (6 business days)
City:	LITTLE ROCK	State, Zip:	AR 72204
County:		Phone #:	
E-Mail:	kvandevender@uaex.edu sharples@uark.edu	Check #:	BCRET FUND (LRSO)

Lab. No.	M80169	M80170				
Sample I.D.	C&H P1C	C&H P2C				
Animal type	swine	swine				
age / lbs	no info	no info				
Bedding type	none	none				
Manure type	pond liquid	pond liquid				
Sample date	2/08/2018	2/08/2018				
Age of manure	no info	no info				
pH	7.7	8.0				
EC(µmhos/cm)	11800	11630				
% Solids	2.87	0.72				

-mg/l on as-is basis-

Total N	2590	1000				
Total P	1485	136				
Total K	1756	1519				
Total Ca	1342	58				
NH4-N	1341	991				
NO3-N						
Water Extractable P	149	84				

-lbs/1000 gal on as-is basis-

Total N	21.6	8.3				
TOTAL P AS						
"P2O5"	28.3	2.6				
TOTAL K AS						
"K2O"	17.6	15.2				
Total Ca	11.2	0.5				
NH4-N	11.2	8.3				
NO3-N						
Water Extractable P	1.2	0.7				

*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, 1 hr shake, centrifuged, filtered, acidified, analysis by ICP



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

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EC FARMS	Client ID	8706688992
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	
Levelled 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	47.53	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
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:

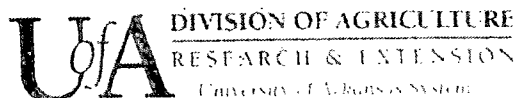
To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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	8706868992
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
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:

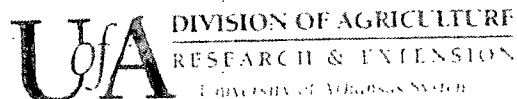
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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	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.)

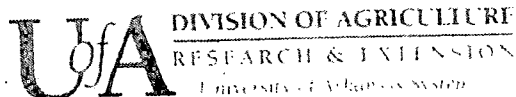
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	50	0	100	0	0	0	4000
Crop 2								
Crop 3								

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	8706883992
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

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	6.72	cmole/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.)

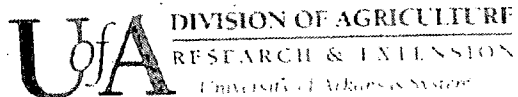
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1:	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	120	60	0	0	0	0
Crop 2								
Crop 3								

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	16	32	
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
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	12	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)							
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:

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For information on Arkansas's 35 equal opportunity provisions, visit www.aae.org

EC FARMS	Client ID	8706868992
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	49146	
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	
SO ₄ -S	15	30	
Zn	2.1	4.2	
Fe	114	228	
Mn	380	760	
Cu	1	2	
B	0	0	
NO ₃ -N	18	36	

2. Soil Properties

2. Soil Properties		Value	Units	
Property				
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
54.84	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	P ₂ O ₅	K ₂ O	SO ₄ -S	Zn	B	Lime
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:

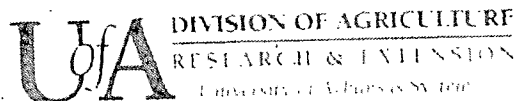
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5. Crop 2 Notes:

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	8705888952
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	
SO ₄ -S	13	26	
Zn	2.4	4.8	
Fe	105	210	
Mn	115	230	
Cu	1.4	2.8	
B	0	0	
NO ₃ -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	P ₂ O ₅	K ₂ O	SO ₄ -S	Zn	B	Lime
Last Crop Hay (142)		lb/acre						
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:

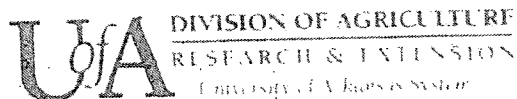
To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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	16	32	
Fe	130	260	
Mn	116	232	
Cu	0.6	1.2	
B	0	0	
NO3-N	2	4	

2. Soil Properties

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 cmole/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.)

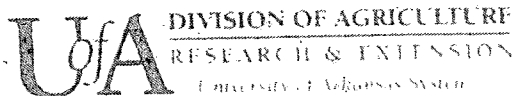
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	120	160	0	0	0	0
Crop 2								
Crop 3								

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 to 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	72663
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	15	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
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:

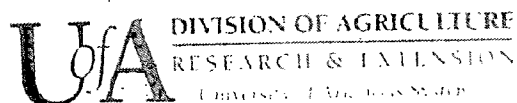
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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	8705888992
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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
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:

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EC FARMS	Client ID	8706888992
PO BOX 52		
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	58	116	
Fe	197	394	
Mn	190	380	
Cu	28	56	
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:

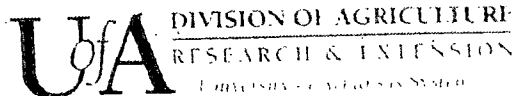
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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:

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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	1845	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

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	58.72	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:

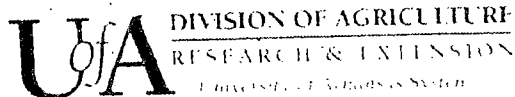
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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:

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EC FARMS	Client ID	8706888992
PO BOX 52		
VENDOR	AR	72683
Date Processed:	3/30/2015	
Field ID	RC3	
Acres	12	
Lime Applied in the last 4 years	No	
Leveled in past 4 years	No	
Irrigation	Unknown	
County	Newton	
Lab Number	49131	
Sample Number	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
Last Crop Hay (142)		 lb/acre						
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:

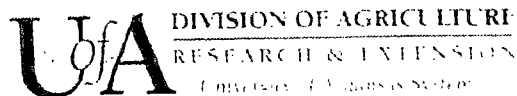
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5. Crop 2 Notes:

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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	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	11.76	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
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	60	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	8705888992
PO BOX 52		
VENDOR	AR	72663
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.)

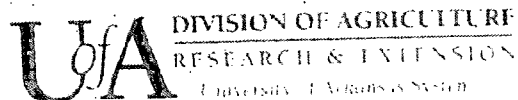
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	40	0	0	0	0	5000
Crop 2								
Crop 3								

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	8705888992
PO BOX 52		
VENDOR	AR	72683
Date Processed	3/30/2015	
Field ID	C81	
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	1285	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

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	11.15	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
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)		150	0	180	0	0	0	0

4. Crop 1 Notes:

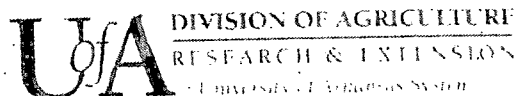
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-5 weeks of grazing or as needed.

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

2 Soil Properties		Value	Units	
Property				
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.)

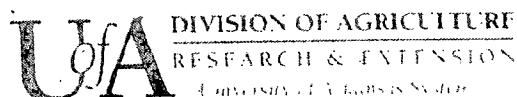
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	50	0	0	0	0	0	0
Crop 2								
Crop 3								

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
Last Crop: Pasture (212)		- lb/acre -						
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:

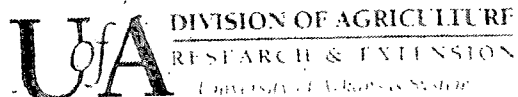
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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	2706888992
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VENDOR	AR	72683
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
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	72663
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	63	126	
Fe	173	346	
Mn	142	284	
Cu	21	42	
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
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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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

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)

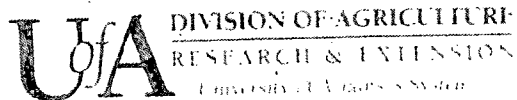
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

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 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	265	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

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.)

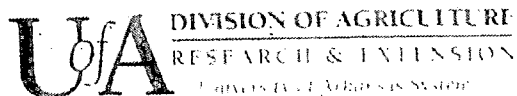
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop		lb/acre						
Pasture (212)								
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

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	8705888992
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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	39	78	
Fe	165	330	
Mn	83	166	
Cu	12	24	
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.)

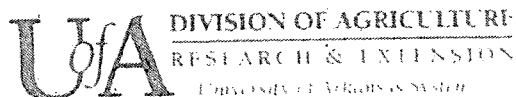
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	50	0	40	0	0	0	0
Crop 2								
Crop 3								

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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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	16	32	
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.)

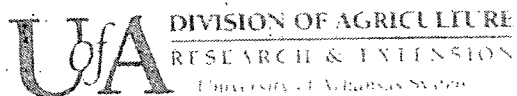
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	0
Crop 2								
Crop 3								

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	8706888952
PO BOX 52		
VENDOR	AR	72583
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.)

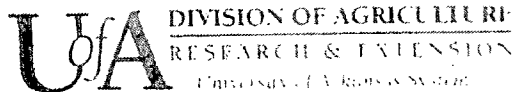
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

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	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
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.)

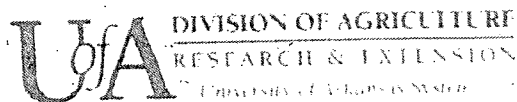
Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (212)							
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	4000
Crop 2								
Crop 3								

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 4-5 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	
Acre	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	29	58	
Fe	105	210	
Mn	404	808	
Cu	13	26	
B	0	0	
NO3-N	8	16	

2. Soil Properties

2. Soil Properties		Value	Units	
Property				
Soil pH (1:2 soil-water)		5.2	..	
Soil EC (1:2 soil-water)		21	umhos/cm	
Soil Estimated CEC		8.56	cmole/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
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:

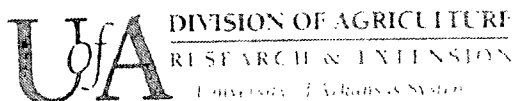
To favor cool-season grasses, apply N in late winter. To favor warm-season grasses, do not apply N until May 1. For higher production, topdress 50 lb N/Acre after every 4-6 weeks of grazing or as needed.

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.



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

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EO FARMS	Client ID	8705888992
PO BOX 52		
VENDOR	AR	72663
Date Processed	3/30/2015	
Field ID	V1 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)							
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:

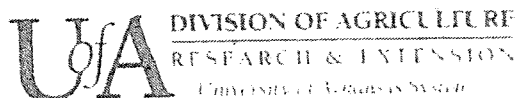
To favor cool-season grasses, apply fertilizer in split applications in late winter and after spring hay harvest. To favor warm-season grasses, do not apply N until May 1. Split apply the recommended fertilizer rates after each subsequent hay harvest.

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.



Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
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Division of Agriculture and Forestry, University of Arkansas System

EC FARMS	Client ID	8706888992
PO BOX 52		
VENDOR	AR	72663
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.

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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