ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

Annual Report Form For CAFO Operations Permitted Under NPDES General Permit ARG590000

	Reportin	g Period:	/1/17	through	12/31	/17	
Permittee:	C+H Hog	Farms, Inc	Permit	Tracking	Number:	ARG59 <u>00</u>	<u>01</u>
(bec	f cattle, broiler	nals: <u>annaál áy</u> s. layers, swine w eifers, veal calve	cighing 55 pour	ids or more, s	wine weighti	ng less than 55 p	<u>ie ≤ 6</u> 5 lbs oounds, mature
2 520		f total manu <u>(estimati base</u> gallons)					12 months: irnal weignts)
		etal manure, lit ous 12 months:		O(D) galla	m5		
Total numb	oer of acres a	vailable for lan	d application i	n accordanc	ce with NM	1P: <u>LeDte 9</u>	(see note below
Total numb		sed for land ap	plication of m	anure, litte	r and proce	:ss wastewate	er in previous
occurred in	n the previou	e. litter or process 12 months, in the distribution of the distrib	ncluding date	time, and			
	parametric designation of the second	Date	Time	Approxi	mate Volu	ıme (gallons)	
Dis	charge l				gay, da. Antanan (a. dalah da an ang an da an 1969 - 1969 - 1964)		
Dis	scharge 2						
Dis	scharge 3						****
Dis	scharge 4						
certified m		of the CAFO [*] gement planne	r?				
Yes No		Signatu	ire Philip	Cambri	Date Date	· 1-22-18	>
I VO		Signatu				- 100 10	**************************************
						1	0

NOTE: Total number of acres available for land application (usable acres) per NMP is 636.7 acres. Due to a rmap chiscopancy, Field 5 is not currently available for land application. The total number of acres available for land application (usable acres) for Field 5 is 23.8 acres. Therefore, the total number of acres available for land application in 2017 was use 106.9 acres (630.7 acres minus Field 5's 23.8 acres).

Annual Summary, Page 1

The actual crop(s) planted and actual yield(s) for each field, the actual nitrogen and phosphorus content of the manure, litter, and process wastewater, the results of calculations conducted in accordance with paragraphs 3.2.5.1.b and 3.2.5.2.d of this section, and the amount of manure, litter, and process wastewater applied to each field during the previous 12 months; and, for any CAFO that implements a nutrient management plan that addresses rates of application in accordance with paragraph 3.2.5.2 of this section, the results of any soil testing for nitrogen and phosphorus taken during the preceding 12 months, the data used in calculations conducted in accordance with paragraph 3.2.5.2.4 of this section, and the amount of any supplemental fertilizer applied during the previous 12 months.

Field ID or Name (same as in NMP)	Crop Planted	Crop Yield (lbs., bu., or tou/acre)	Nitrogen Content of waste (lbs/1000 gal or lbs/ton)	Phosphorus Content of waste (lbs/1000 gal or lbs/ton)	Amount of waste applied in previous 12 months (gal or tons/acre)	Results of soil testing for Nitrogen, if required. Include data for calculations (mg/kg)	Results of soil testing for Phosphorus, if required. Include data used for calculations (mg/kg)	Amount of supplemental fertilizer, if any, used in previous 12 months. Express lbs/acre in 0-0-0 format
1					60,000 gal			
a					48,000 gal	anger manager engage art pole count an indice of \$4000 windows \$1000 \$10		
3					105,000 gal	Annahap Bid was later as on the later B to the Assert	And a bridge of the second second second second second second	
4			·		54,000 gal			
7					756,000 gal		and the second s	
8					57,000 gal			
9					346,000 gal	motors about order data conditions action of Market or about process conditional for Add of the Market Co.		
10					243,000 gal			

WASTEWATER SAMPLE LOCATION: Holding Pond 1 and Holding Pond 2

You must submit a copy of the wastewater analysis for each sample provided to cooperative extension service or a private lab. The wastewater analysis must include pH (s.u.), total nitrogen, ammonia nitrogen, total potassium, total phosphorus, and percent solid.

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 nurates (lbs/ac). At least one soil analysis should be done for each 10 acre track.

Annual Summary, Page 2

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N.					@3.000 gal			
18					90,000 gal		and an analysis of the second	
13					281,000 gal			
j L l					160,000 gal			
15					318,000gal	The second section of the second section of the second section of the second section s		garages, a regisperature i securio del mantenament i di m
ilo					90,000gal			
17					390,000 gal			
					J			and the state of t

WASTEWATER SAMPLE LOCATION: Holding Fond 1 and Holding Pond 2

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Spring Application, page 1 using Nanuve Sample for Holding Pond 1. Feb 2017

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	Mixed	le tonsjacre	24.8 los/1000ga	30.4 lbs/100 gal	48,000 gal	ρ	173 ppm	0
2	Mixed	(a tons lacve	94.8 10s/10x0 gal	30.4 lbs/1000 gal	24.000 gal	0	112 ppm	0
3	Mixed	ie lenslace	24.8 18/1000 gal	30.4 105/1000 gal	100,000 gal	0	120 ppm	Q
<u> </u>	Mixed	U tonslack	848165/1000 gal	30,4 105/1000 gal	39,000 gal	00	75ppm	0
1	Mixed	la tonslaere	194.8 165/1000 gal	30.4 165/1000 gal	255,000 gal		132 ppm	<u>Q</u>
8.	Mixed	ls tonspacre	248 165/100 Gal	30.4 lbs/1000 gal	30,000 gal	0	94 ppm	0
9	Mixed	la tenspacre	84.8 ibs/1000 gal	30.41 105/1000 gal	216,000 gal	0	86 ppm	0
10	Mixed	le tonspacre	34.8105/1000gul	30.4 105/1000 gal	blo.DMgal	0	11.ppm	<u> </u>

WASTEWATER SAMPLE LOCATION: Holding Pond 1 Feb 2017

You must submit a copy of the wastewater analysis for each sample provided to cooperative extension service or a private lab. The wastewater analysis must include pll (s.u.), total nitrogen, ammonia nitrogen, total potassium, total phosphorus, and percent solid.

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Spring Application, page 2 using Manure Sample for Holding Pond 1, Feb 2017

The actual crop(s) planted and actual yield(s) for each field, the actual nitrogen and phosphorus content of the manure, litter, and process wastewater, the results of calculations conducted in accordance with paragraphs 3.2.5.1.b and 3.2.5.2.d of this section, and the amount of manure, litter, and process wastewater applied to each field during the previous 12 months; and, for any CAFO that implements a nutrient management plan that addresses rates of application in accordance with paragraph 3.2.5.2 of this section, the results of any soil testing for nitrogen and phosphorus taken during the preceding 12 months, the data used in calculations conducted in accordance with paragraph 3.2.5.2.4 of this section, and the amount of any supplemental fertilizer applied during the previous 12 months.

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11	Mixed	le tonslacire	34.8165/1000 cal	30.4165/100gal	63.000 gal	0	53 ppm	0
12	Mixed			30,4 105/1000 gal	45.000 gal	0	59 ppm	0
13	Mixed	istons/acre	84 8 185/1000 gal	30.4 lbs/1000 gal	80.000 gal	0	50ppm	<u> </u>
14	Mixed		, ,	30,4105/100 gal		0	(e7ppm	0
15	Mixed			30.4 165/1000 gal	168,000 gal	0	79 ppm	<u></u>
17	Mixed			30,41 lbs/1000 gal	144.000 gal	0	log ppm	0
	<u> </u>					7		

WASTEWATER SAMPLE LOCATION: Holding Pord 1, Feb 2017

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Summer Application using Manure Sample for Holding Pond 2, Feb 2017

The actual crop(s) planted and actual yield(s) for each field, the actual nitrogen and phosphorus content of the manure, litter, and process wastewater, the results of calculations conducted in accordance with paragraphs 3.2.5.1.b and 3.2.5.2.d of this section, and the amount of manure, litter, and process wastewater applied to each field during the previous 12 months; and, for any CAFO that implements a nutrient management plan that addresses rates of application in accordance with paragraph 3.2.5.2 of this section, the results of any soil testing for nitrogen and phosphorus taken during the preceding 12 months, the data used in calculations conducted in accordance with paragraph 3.2.5.2.4 of this section, and the amount of any supplemental fertilizer applied during the previous 12 months.

Field ID or Name (same as in NMP)	Crop Planted	Crop Yield (lbs., bu., or ton/acre)	Nitrogen Content of waste (lbs/1000 gal or lbs/ton)	Phosphorus Content of waste (lbs/1000 gal or lbs/ton)	Amount of waste applied in previous 1-2-months-(gal or tons/acre) Jul 1 - Jul 13	Results of soil testing for Nitrogen, if required. Include data for calculations (mg/kg)	Results of soil testing for Phosphorus, if required. Include data used for calculations (mg/kg)	Amount of supplemental fertilizer, if any, used in previous 12 months. Express lbs/acre in 0-0-0 format
7	Mixed	4 tonslack	84.8 165/1000gal	30,4 lbs/1000gal	321,000 gal	0	132 ppm	0
8	Mixed	le tonslacre	34.8165/1000gal	30.4 165/1000 gal	87,000 gal	0	94 ppm	0
9	Mixed	le tons/acre	24.8105/1000gal	30.4 100/1000gal	30,000 gal	0	Bleppm	0
10	Mixed	is tons lacre	24.8 105/100 gal	30.4 100/1000 gal	54,000 gal	<u> </u>	$21\rho\rho m$	
13	Mixed		,	30.4 lbs/1000gal	(00,000 ga)	D	50 ρρm	0
						•		

WASTEWATER SAMPLE LOCATION: Holding Pond 1, En 2017

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Summer Application, page 1 using Manure Sample for Holding Denol 4, Jul 2017

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	Mixed	Le tons/acre	22,4 105/100094	299 W5/1000gal	12,000 gal	0	173 ррм	
a	Mixed	Le tons/acre	22.4 los/1000gal	299 165/1000 gal	24.000 gal	0	112 ppm_	
3	Mixed			29.9 105/1000gal		0	120ppm	
4	Mixed	lo lons/acre	22.4105/1000gal	29.9 105/1000gel	15,000 gal	00	75ppm	
7	Mixed	le tons/acre	224 lbs/1000gal	39,9 10s/1000pul	180,000gal	0	132 ppm	
9	Mixed	to tonstacre	29.4 165/100061	29 9 105/1000gal	100,000 gal	0	86 ppm	
10	Mixal	le tons/acre	22.4 165/1000 pg 1	29.9 105/1000 gal	123.000 gal	0	<u> 1Lppm</u>	
12	Mixed	Le bonspacre	22,41 lbs/1000ga	89.9 ms/1000gal	45,000 gal	<u> </u>	59 ppm	

WASTEWATER SAMPLE LOCATION: Holding Pond 1, Jul 2017

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Summer Application, page 2 using Manure Sumple For Holding Pond 4, Jul 2017

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13	Mixed	lo tonslocive	224 lbs/1000g	29.4 lbs/1000gal	141,0000gd	0	50ppm	0
14	Mixed			299 105/1000 pal	24,000gal	<u> </u>	67ppm	0
15	Mixed	le tons/acre	92.4 105/1000gal	29 9 100 1000 gal	150,000gal	0	79 ppm	
16	Mixed	lo tons/acve	22.4 165/1000gal	899 los/ 1000 gul	90,000 gai	<i>D</i>	63ppm	0
17	Mixed.	to tonstacre	22.4765/1600ga1	29.9 ms/1000gal	246,000ga1	0	108 ppm	<i>D</i>

WASTEWATER SAMPLE LOCATION: Holding Pond 1, Jul 2017

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

Water-permit@adeq.state.ar.us

AGRICULTURAL DIAGNOSTIC SERVICE LABORATORY

1366 W. Altheimer Dr., Fayetteville, AR 72704



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. 2/02/2017 Address: 2301 S. UNIVERSITY AVE E- Mailed: 2/14/2017 (9 business days) City: LITTLE ROCK State,Zip: AR 72204 County: Phone #: E-Mail: kvandevender@uaex.edu, sharpley@uark.edu Check #: Bill toBCRET fund (Sharpley) Lab. No. M70166 M70167 Sample I.D. HP1P HP2P Animal type swine swine age / lbs no info no info Bedding type none none Manure type pond liquid pond liquid Sample date 2/02/2017 2/02/2017 Age of manure no info 7.6 pΗ 0.8 EC(µmhos/cm) 13910 10020 % Solids 4.49 2.91 -mg/l on as-is basis-Total N 2980 1480 Total P 1596 165 Total K 1716 1345 Total Ca 1355 59 NH4-N 1343 638 Water Extractable P 187 114 -lbs/1000 gal on as-is basis-Total N 24.8 12.3 TOTAL P AS "P2O5" 30.4 3.2 TOTAL K AS "K20" 17.2 13.4 Total Ca 11.3 0.5 NH4-N 11.2 5.3 Water Extractable P 1.6 1.0

^{*}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 h: shake, centrifuged, filtered, acidified, analysis by ICP

AGRICULTURAL DIAGNOSTIC SERVICE LABORATORY

1366 W. Altheimer Dr., Fayetteville, AR 72704



agrilab@uark.edu



University of Arkansas, Dept. of Crops, Soils, and Environmental Science

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

Name:		/ENDER / ANDREW SHARPLE	Received in lab	6/30/2017	
Address:	2301 S UNIVE		E- Mailed:	7/19/2017 (13	business da
City:	LITTLE ROCK		State,Zip:	AR 72204	
County:			Phone #:		,
E-Mail:	kvandevender	@uaex.edu, sharpley@uark.ed	Check #:	BCRET FUND	
Lab. No.	M70720	M70721			***************************************
Sample I.D.	P1C	P2C			***************************************
Animal type	swine	swine			
age / Ibs	no info	no info			***************************************
Bedding type	none	none		400000000000000000000000000000000000000	
Manure type	pond liquid	pond liquid	-		
Sample date	6/30/2017	6/30/2017			
Age of manure	no info	no info			
pН	7.7	8.1			
EC(µmhos/cm)	11400	4400			
% Solids	6.13	2.13	nantana arang aran	Variable de la compansa de la compan	***************************************
	<u> </u>	-mg/l on as-is basis-			
Total N	2690	430		***************************************	
Total P	1569	150		******************************	
Total K	1446	949			******************************
Total Ca	1301	90	NOONE NOOME CONTRACT OF THE PARTY OF THE PAR	***************************************	***************************************
NH4-N	1033	172			
NO3-N		Annual Control of the			***************************************
Water Extractable P	210	83	***************************************		Valogue e con tra e qualitat e cualificación
		-lbs/1000 gal on as-is	basis-		
Total N	22.4	3.6		***************************************	****
TOTAL P AS					
"P2O5"	29.9	2.9	****	************************	
TOTAL K AS					
"K20"	14.5	9.5		4*****************************	***************************************
Total Ca	10.8	0.8	***************************************		
NH4-N	8.6	1.4			
NO3-N	***************************************			***************************************	***************************************
Water Extractable P	1,7	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, I hr shake, centrifuged, filtered, acidified, analysis by ICP



The University of Arkansas Is an equal opportunity/affirmative action institution.

JASON HENSON HC 72 BOX 2	Client ID:	8706881318
VENDOR	AR	72683
Date Processed:	12/5/	2016
Field ID:	JH 1	
Acres:	18	
Lime Applied in the last 4 years:	No	
Leveled in past 4 years:	No	
Irrigation:	Unkr	nwoi
County:	Роря)
Lab Number:	1895	90
Sample Number:	3466	748

1. Nutrient Availability Index

Nutrient	Cond	centration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	173	346	Above Optimum
K	505	1010	Above Oplimum
Ca	1441	2882	
Mg	214	428	 .
SO4-S	24	48	:
Zn	12.5	25	**
Fe	164	328	
Mn	285	570	
Cu	1.3	2.6	
В	0.6	1.2	*-
NO3-N	55	110	

Soil Properties

1		VI. 1.	11 11		
roperty	l	Value	Units		
		j			
l-water)		6.1			
il-water)			umhos/cm		
CEC		13.87	cmolc/kg		
(Loss on Ignition	1)		%		
Texture		Silt Loam			
,		*****************************			
Estimat	ed Base Satur	ation (%)			
Ca	Mg	K	Na		
51.96	12.86	9.34	0.60		
	CEC (Loss on Ignition) Texture Estimate	I-water) Il-water) CEC (Loss on Ignition) Texture Estimated Base Satur Ca Mg	I-water) 6.1		

3. Recommendations

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

	Crop		P205	K2O	SO4-S	Zn	В	Lime
Last Crop	Pasture (212)	b/acre			<u> </u>			
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2	Pasture - Cool-Season Grasses (MNT) (203)	60	0	0	0	0	0	0
Crop 3	Warm-Season Grasses (MNT) (207)	60	0	0	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:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

6. Crop 3 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	JH 2
Acres:	9
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	189591
Sample Number:	3466749

1. Nutrient Availability Index

Nutrient	Cond	centration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	112	224	Above Optimum
К	272	544	Above Oplimum
Ca	1130	2260	
Mg	150	300	
SO4-S	19	38	-
Zn	6	12	
Fe	137	274	
Mn	315	630	
Cu	1.1	2.2	
В	0.4	8.0	
NO3-N	35	70	

Soil Properties

	Property		Value	Units	
Soil pH (1:2 so	il-water)		5.9		
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			11.18	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil Texture			Silt Loam - Silty Clay Loam		
	Fallman				
	Estimat	ed Base Satur	ation (%)		
Total	Ca	Mg	K	Na	
68,68	50.56	11.18	6,24	0.70	

3. Recommendations

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

	Crop		P2O5	K20	SO4-S	Zn	В	Lime
Last Crop Pasture (212)		1			lb/acre -			k
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	0	0	0	0	0
Crop 2	Pasture - Cool-Season Grasses (MNT) (203)	60	0	0	0	0	0	0
Crop 3	Warm-Season Grasses (MNT) (207)	60	0	0	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:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

6. Crop 3 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 ib N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 ib N/Acre in early August. Do not epply N after September 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	CC 3
Acres:	17
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	189592
Sample Number:	3466750

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	120	240	Above Optimum
К	85	170	Low
Ca	2100	4200	
Mg	103	206	
SO4-S	11	22	
Zn	5.7	11.4	***
Fe	192	384	
Mn	241	482	
Cu	1.8	3.6	4.5
В	0.4	8.0	***
NO3-N	10	20	¥

2. Soil Properties

ı	Property			Units	
Soil pH (1:2 soil-water)			6.8		
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			14.16	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil Texture			Silty Clay Loam - Clay Loam		
	Estimat	ed Base Sat	uration (%)		
Total Ca M		Mg	K	Na	
82.35	74.14	6.06	1.54	0.61	

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

	Crop		P2O5	K20	SO4-S	Zn	В	Lime
Last Crop	Last Crop Pasture (212)		Ib/acre					
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 4 ton (144)	160	0	220	0	0	0	0
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	300	0	0	0	0

4. Crop 1 Notes:

7. Or for 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.

Crop 3 Notes:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

If S deficiency has occurred previously on this field apply 20 lb SO4-S/Acre.



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JASON HENSON HC 72 BOX 2	Client ID:	8706881318
VENDOR	AR	72683
Date Processed:	12/5	/2016
Field ID:	JH 4	\
Acres:	11	
Lime Applied in the last 4 years:	No	
Leveled in past 4 years:	No	
Irrigation:	Unk	nown
County:	Рор	e
Lab Number:	189	593
Sample Number:	346	6751

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	75	150	Above Optimum
К	165	330	Optimum
Ca	1176	2352	**
Mg	161	322	++
SO4-S	18	36	
Zn	5.4	10.8	
Fe	252	504	
Mn	98	196	
Cu	0.8	1.6	
В	0.3	0.6	**
NO3-N	9	18	

2. Soil Properties

	Property	\	/alue	Units
Soil pH (1:2 sc	il-water)		5.5	***
Soil EC (1:2 soil-water)				umhos/cm
Soil Estimated CEC			13.22	cmolc/kg
Organic Matte	n)		%	
Estimated Soil	Estimated Soil Texture			Clay Loam
	Estimat	ed Base Satura	tion (%)	
Total	Са	Mg	К	Na
58.41	44,47	10.15	3.20	0.59

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

Crop		N	P2O5	K2O	SO4-S	Zri	В	Lime
Last Crop	Pasture (212)				lb/acre -			
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	40	0	0	0	4000
Crop 2	Pasture - Cool-Season Grasses (MNT) (203)	60	0	0	0	0	0	4000
Crop 3	Warm-Season Grasses (MNT) (207)	60	0	0	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:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

Crop 3 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.



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JASON HENSON HC 72 BOX 2	Client ID:	8706881318
VENDOR	AR	72683
Date Processed:	12/5	5/2016
Field ID:	7	
Acres:	35	
Lime Applied in the last 4 years:	No	
Leveled in past 4 years:	No	
Irrigation:	Unk	nown
County:	Pop	e
Lab Number:	189	594
Sample Number:	346	6752

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm lb/ac		(Mehlich 3)
Р	132	264	Above Optimum
Κ	69	138	Low
Ca	874	1748	· -•
Mg	101	202	**
SO4-S	14	28	**
Zn	5.3	10.6	
Fe	187	374	~+
Mn	200	400	~~
Cu	1.9	3.8	47
В	0.2	0.4	**
NO3-N	9	18	y.

2. Soil Properties

Property			Value	Units	
Soil pH (1:2 so	il-water)		5.6	••	
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			9.43	cmolc/kg	
Organic Matter (Loss on Ignition)		n)	***************************************	%	
Estimated Soil	Texture		Sill Loam		
	Estima	led Base Satur	ation (%)		
Total	Ca	Mg	К	Na	
57.57	46.35	8.93	1.88	0.42	

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

	Crop	N	P205	K2O	SO4-S	Zn	В	Lime
Last Crop	P Hay (144)	······································			Ib/acre -			<u> </u>
Crop 1	Mixed Cool and Warm Season Grasses 4 Ion (144)	160	0	220	0	0	0	4000
Crop 2	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	300	0	0	0	4000
Crop 3			1	<u> </u>	1	†		

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:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 50 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

6. Crop 3 Notes:



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	CC 8
Acres:	14
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No ·
Irrigation:	Unknown
County:	Pope
Lab Number:	189596
Sample Number:	3466754
Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation: County: Lab Number:	No No Unknown Pope 189596

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
P	94	188	Above Optimum
К	97	194	Medium
Ca	1692	3384	* *
Mg	77	154	4-
SO4-S	12	24	**
Zn	4.2	8.4	
Fe	166	332	••
Mn	204	408	
Cυ	0.8	1.6	
В	0.4	0.8	5+**
NO3-N	21	42	

2. Soil Properties

1	Property		Value	Units
oil pH (1:2 soil-water)			6.8	**
Soil EC (1:2 so	il-water)			umhos/cm
Soll Estimated CEC			11.95	cmolc/kg
Organic Matter (Loss on Ignition)				%
Estimated Soil	Texture	(Silt Loam - Silt	y Clay Loam
			umuquum	
	Estimate	ed Base Satur	ation (%)	
Total	Са	Mg	К	Na
79.07	70.82	5.37	2.08	0.80

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

	Сгор	N	P2O5	K2O	SO4-S	Zn	В	Lime
Last Crop	Pasture (212)				tb/acre -		*****	
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 4 ton (144)	160	0	180	0	0	0	0 .
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	250	0	0	0	0 ·

4. Crop 1 Notes:

7. Order 1 Wolds.
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.

Crop 3 Notes:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

If S deficiency has occurred previously on this field apply 20 to SO4-S/Acre.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	CC9 YE
Acres:	35
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	189599
Sample Number:	3466757

1. Nutrient Availability Index

Nutrient	Cone	centration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	86	172	Above Optimum
К	93	186	Medium
Ca	2549	5098	
Mg	98	196	
SO4-S	11	22	
Zn	4.6	9.2	**
Fe	178	356	
Mn	148	296	
Cu	1.8	3.6	
В	0.5	1	
NO3-N	13	26	

2. Soil Properties

	Property		Value	Units	
Soil pH (1:2 soil-water)			6.7		
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			16.91	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil Texture			Silty Clay Loam - Clay Loam		
	Estimat	ed Base Satu	ration (%)		
Total	Ca	Mg	К	Na	
82.26	75.36	4.83	1.41	0.67	

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

	Сгор	N	P2O5	K2O	SO4-S	Zn	В	Lime
Last Crop	Pasture (212)				Ib/acre -			L
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 4 ton (144)	160	0	180	0	0	0	0
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	250	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 tate 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.

Crop 3 Notes:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

If S deficiency has occurred previously on this field apply 20 lb SO4-S/Acre.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	10 YE
Acres:	29
Lime Applied in the last 4 years:	· No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Роре
Lab Number:	190359
Sample Number:	3466760

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	71	142	Above Optimum
К	95	190	Medium
Ca	1237	2474	
Mg	115	230	
SO4-S	13	26	
Zn	5.5	11	
Fe	170	340	**
Mn	175	350	**
Cu	1.9	3.8	••
В	0.3	0.6	~ B
NO3-N	13	26	

2 Soil Properties

2. 3011 - Topi	Property		Value	Units	
Soil pH (1:2 soi	I-water)		5.6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Soil EC (1:2 so		umhos/o			
Soil Estimated		11.99	cmolc/kg		
Organic Matter	(Loss on Ignition	٦)		%	
Estimated Soil	Texture	5	Silt Loam - Silty Clay Loam		
	Estimat	ed Base Satura	ation (%)		
Total	Ca	Mg	К	Na	
62.46	51.60	7.99	2.03	0.83	

3. Recommendations

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

Сгор		N	P2O5	K20	SO4-S	Zn	В	Lime
Last Crop	Pasture (212)				lb/acre -			<u> </u>
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	180	0	0	0	4000
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 Ion/acre (134)	300	0	250	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:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	FD 11
Acres:	19
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No .
Irrigation:	Unknown
County:	Pope
Lab Number:	190360
Sample Number:	3466761

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	53	106	Above Optimum
К	115	230	Medium
Ca	666	1332	
Mg	118	236	
\$04-S	13	26	
Zn	4.1	8.2	
Fe	123	246	
Mn	181	362	
Cu	0.9	1.8	
В	0.2	0.4	-
NO3-N	30	60	~~

2. Soil Properties

OOn , , op.	o, (, o c			
	Property		Value	Units
Soil pH (1:2 so	il-water)		5.6	**************************************
Soil EC (1:2 so			umhos/cm	
Soil Estimated CEC			8.68	cmolc/kg
Organic Matter	(Loss on Ignilio	n)		%
Estimated Soil	Texture		Silt Lo	am

	Estimat	ed Base Satur	ation (%)	
Total	Ca	Mg	K	Na
53.91	38.37	11.33	3,40	0.80
·····	h	1	······································	

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

	Сгор	N	P2O5	K20	S04-S	Zn	В	Lime
Last Crop	Pasture (212)				Ib/acre -			
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	60	0	0	0	4000
Crop 2	Pasture - Cool-Season Grasses (MNT) (203)	60	0	50	0	0	0	4000
Crop 3	Warm-Season Grasses (MNT) (207)	60	0	60	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:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

6. Crop 3 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	RF 12
Acres:	13
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	190361
Sample Number:	3466762

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
P	59	118	Above Optimum
K	69	138	Low
Ca	1340	2680	••
Mg	107	214	**
SO4-S	12	24	
Zn	4	8	-
Fe	134	268	**
Mn	162	324	
Cu	1.9	3.8	
В	0.3	0.6	***
NO3-N	13	26	

2. Soil Properties

Property		,	Value	Units	
Soil pH (1:2 so	il-water)	\ <u>`</u>	5.6	**	
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			12.38	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil	Estimated Soil Texture		Silt Loam - Silty Clay Loam		
	Estimate	ed Base Satura	ation (%)		
Total	Ca	Mg	K	Na	
63.64	54.13	7.20	1.43	0.88	

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

		-			•			•
	Crop	N	P2O5	K2O	SO4-S	Zn	В	Lime
Last Crop	Pasture (212)				Ib/acre -			<u> </u>
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 4 ton (144)	160	0	220	0	0	0	4000
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 lon/acre (134)	300	0	300	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:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

If S deficiency has occurred previously on this field apply 20 lb SO4-SIAcre.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/5/2016
Field ID:	CC 13YE
Acres:	51
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	190365
Sample Number:	3466766

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	50	100	Optimum
ĸ	124	248	Medium
Ca	1183	2366	
Mg	92	184	
SO4-S	12	24	
Zn	5.6	11.2	
Fe	89	178	
Mn	424	848	~~
Cu	1.2	2.4	
8	0.3	0.6	
NO3-N	20	40	

Soil Properties

Property			Value	Units	
Soil pH (1:2 soil-water)			6.4		
Soil EC (1:2 soil-water)			· · · · · · · · · · · · · · · · · · ·	umhos/cm	
Soil Estimated CEC			10.07	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil Texture			Silt Loam		
	Estimat	ed Base Satu	ration (%)		
Total	Ca	Mg	ĸ	Na	
70.22	58.72	7.61	3.16	0.73	

3. Recommendations

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

	Сгор		P2O5	K20	SO4-S	Z n	В	Lime
Last Crop	Pasture (212)				lb/acre -			!
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	30	60	0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 4 Ion (144)	160	40	180	0	0	0	0
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	45	250	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 Noles:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1. If S deficiency has occurred previously on this field apply 20 lb SO4-S/Acre.



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JASON HENSON HC 72 BOX 2	Client ID:	8706881318
VENDOR	AR	72683
Date Processed:	12/5	/2016
Field ID:	CC	14
Acres:	15	
Lime Applied in the last 4 years:	No	
Leveled in past 4 years:	No	
Irrigation:	Unk	nown
County:	Рор	е
Lab Number:	190	366 .
Sample Number:	346	6767

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	. lb/acre	(Mehlich 3)
Р	67	134	Above Optimum
К	150	300	Optimum
Ca	850	1700	
Mg	139	278	••
SQ4-S	14	28	
Zn	9.2	18.4	
Fe	103	206	
Mn -	383	766	
Cu	1.2	2.4	
В	0.4	0.8	v.
NO3-N	16	32	••

Soil Properties

	Property		Valuo	Units	
Soil pH (1:2 soi	Soil pH (1:2 soil-water)				
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			8.85	cmolc/kg	
Organic Matter (Loss on Ignition)			%		
Estimated Soil	Texture		Silt Loam		
	Estimat	ed Base Satu	ration (%)		
Total	Ca	Mg	K	Na	
66.10	48.03	13.09	4.35	0.64	

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

Сгор		N	P2O5	K20	SO4-S	Zn	В	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	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	150	0	0	O	0
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	200	0	0	0	0

4. Crop 1 Notes:

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:

For colliman fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

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.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/2/2016
Field ID:	C1C15YE
Acres:	38
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	187606
Sample Number:	3466770

1. Nutrient Availability Index

Nutrient	Con	centration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	79	158	Above Optimum
К	214	428	Above Optimum
Са	822	1644	
Mg	131	262	
SO4-S	19	38	
Zn	7.4	14.8	~-
Fe	126	252	
Mn	473	946	
Cu	1.4	2.8	
В	0.4	8.0	
NO3-N	70	140	**

2. Soil Properties

	Property		Value	Units	
Soil pH (1:2 so		6.2			
Soil EC (1:2 soil-water)				umhos/cm	
Soil Estimated CEC			8.35	cmolc/kg	
Organic Matter (Loss on Ignition)				%	
Estimated Soil	Texture		Silt Loam		
	Estimat	ed Base Satura	ition (%)		
Total	Ca	Mg	К	Na	
70.05	49.24	13.08	6.57	1.15	

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

	Crop			K2O	SO4-S	Zn	В	Lime
Last Crop Pasture (212)					lb/acre -			<u> </u>
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60 0 0			0	0	0	0
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	0	0	0	0	0
Crop 3	rop 3 Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)			0	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:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/2/2016
Field ID:	BH 16
Acres:	21
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	187607
Sample Number:	3466771

1. Nutrient Availability Index

Nutrient	Cond	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	63	126	Above Optimum
К	174	348	Optimum
Ca	790	1580	
Mg	120	240	
SO4-S	19	38	
Zn	5.1	10.2	
Fe	204	408	
Mn	272	544	4+
Cu	1.7	3.4	**
8	0.3	0.6	
NO3-N	13	26	

Soil Properties

z. Son Frapi	511169						
Property			Value	Units			
Soil pH (1:2 soi	I-water)		5.6				
Soil EC (1:2 so	il-water)			umhos/cm			
Soil Estimated	CEC		9.47	cmolc/kg			
Organic Matter	(Loss on Ignition	n)	%				
Estimated Soil	Texture		Silt Loam				
	Estimat	ed Base S	Saturation (%)				
Total	Ca	Mg	К	Na			
57.76	41.71	10.5	6 4.71	0.78			

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

	Сгор			K20	SO4-S	Zn	В	Lime
Last Crop Pasture (212)					lb/acre -			<u> </u>
Crop 1	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	40	0	0	0	4000
Crop 2	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	150	0	0	0	4000
Crop 3	Hay - Warm-Season Grasses (MNT) - 6 ton/acre (134)	300	0	200	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:

For optimum fartilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.



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JASON HENSON HC 72 BOX 2	Client ID: 8706881318
VENDOR	AR 72683
Date Processed:	12/2/2016
Field ID:	JC 17
Acres;	36
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Pope
Lab Number:	187608
Sample Number:	3466772

1. Nutrient Availability Index

Nutrient	Conc	entration	Soil Test Level
	ppm	lb/acre	(Mehlich 3)
Р	68	136	Above Optimum
К	51	102	Very Low
Ca	2108	4216	
Mg	82	164	
SO4-S	13	26	
Zn	6.3	12.6	
Fe	114	228	
Mn	255	510	
Cu	1.6	3.2	
В	0.4	0.8	
NO3-N	16	32	**

2. Soil Properties

Property			Value	Units			
Soil pH (1:2 soi	l-water)		7.3				
Soil EC (1:2 soi	l-water)			umhos/cm			
Soil Estimated	CEC		13.48	cmolc/kg			
Organic Matter	er (Loss on Ignition)		Organic Matter (Loss on Ignition)			%	
Estimated Soil	Texture		Silt Loarn - Silly Clay Loam				
····							
	Estimat	ed Base Sat	uration (%)				
Total	Ca	Mg	K	Na			
85.17	78.16	5.07	0.97	0.97			

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

	Crop	N	P2O5	K20	SO4-S	Zn	В	Lime
Last Crop Hay (144)					lb/acre -		· · · · · · · ·	l
Crop 1	Mixed Cool and Warm Season Grasses 4 ton (144)	160	0	270	0	0	0	0
Crop 2	Hay - Warm-Season Grasses (MNT) - 6 Ion/acre (134)	300	0	350	0	0	0	0
Crop 3	Mixed Cool and Warm-Season Grasses for Pasture (212)	60	0	160	0	0	0	0

4. Crop 1 Notes:

To lavor 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:

For optimum fertilizer efficiency, divide the recommended N, P, and K rates by the estimated number of harvests/year. Make the first fertilizer application in spring when night temperatures are > 60 degrees F for one week. Make subsequent applications following each harvest. Do not apply N after Sept. 1.

6. Crop 3 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.

Arkansas Nutrient Managemnt Planner with 2009 PI (Beta draft ver 09162015)

Planner:		Date:	10/31/2017
Plan Description:	C & H 2017 Year End Report		

Beta Test Version for Use by Select Planners working with Author. This worksheet is intended to assist in the writing of Nutrient Management Plans for the application of manure to pasture and hay land. To do this, the worksheet estimates the litter production for the farm, estimates the P Index risk value for the defined conditions of each field, assists with the allocation of nutrients to the various receiving fields, and estimates the amount of litter available for off farm use. This worksheet is the result of an effort to develop a reliable training/planning tool faithful to the 2009 Arkansas P Index developed by a multi-agency effort. However, no guarantees are made, and any observed problems or suggestions for improvement should be directed to Karl VanDevender at kvan@uaex.edu.

Nutrient Source and Description Information

Manure Source	Source Type	Amount	Available	N Conc	entration	P2O5 Co	ncentration	K2O Cor	ncentration	Water Ex	tractable P	Alum
HP 1 Feb 2017	Liquid Manure	1	1000 gal	24.8	lb/1000 gal	30.4	lb/1000 gal	17.2	lb/1000 gal	1.60	lb/1000 gal	No
HP 2 Feb 2017	Liquid Manure	1	1000 gal	12.3	lb/1000 gal	3.2	lb/1000 gal	13.4	lb/1000 gal	1.00	lb/1000 gal	No
HP 1 July 2017	Liquid Manure	1	1000 gal	22.4	lb/1000 gal	29.9	lb/1000 gal	14.5	lb/1000 gal	1.70	lb/1000 gal	No
HP 2 July 2017	Liquid Manure	1	1000 gal	3.6	lb/1000 gal	2.9	lb/1000 gal	9.5	lb/1000 gal	0.70	lb/1000 gal	No
					Carlotte Marie Marie							

Nutrient Loss and Mineralization Factors

	THURST LO	JU WING WITH	unzution i ut	2013			
		N	P2	205	K20		
Manure Source	Storage	Storage Appl.	Storage	Appl.	Storage	Appl.	
	Losses (%)	Losses (%)	Losses (%)	Losses (%)	Losses (%)	Losses (%)	
HP 1 Feb 2017		25%					
HP 2 Feb 2017		25%					
HP 1 July 2017	学生学业企	25%					
HP 2 July 2017	District.	25%					
0							

Estimated Plant Available Nutrients

	Latimateu	Talle Available	e numents											
Manure Source		N			P2O5			K20		W	Water Extractable P			
Manure Source	Concentration Total (lb)		Conc	entration	Total (lb)	Concentration		Total (lb)	Concentration		Total (lb)			
HP 1 Feb 2017	18.60	lb/1000 gal	19	30.40	lb/1000 gal	30	17.20	lb/1000 gal	17	1.60	lb/1000 gal	1.6		
HP 2 Feb 2017	9.23	lb/1000 gal	9	3.20	lb/1000 gal	3	13.40	lb/1000 gal	13	1.00	lb/1000 gal	1		
HP 1 July 2017	16.80	lb/1000 gal	17	29.90	lb/1000 gal	30	14.50	lb/1000 gal	15	1.70	lb/1000 gal	1.7		
HP 2 July 2017	2.70	lb/1000 gal	3	2.90	lb/1000 gal	3	9.50	lb/1000 gal	10	0.70	lb/1000 gal	0.7		
0	1								The state of the s					
			47			66			55			5		
			47			00			55					

Arkansas Nutrient Managemnt Planner with 2000 PL (Reta draft 11202017)

Arkansas Hatrient Managemint Flamer With 2009 FT (Beta dialt 11202017)											
Planner:	Monica Hancock										
Plan Description:	C & H 2017 Year End Report										

Beta Test Version for Use by Select Planners working with Author. This worksheet is intended to assist in the writing of Nutrient Management Plans for the application of manure to pasture and hay land. To do this, the worksheet estimates the litter production for the farm, estimates the P Index risk value for the defined conditions of each field, assists with the allocation of nutrients to the various receiving fields, and estimates the amount of litter available for off farm use. This worksheet is the result of an effort to develop a reliable training/planning tool faithful to the 2009 Arkansas P Index developed by a multi-agency effort. However, no guarantees are made, and any observed problems or suggestions for improvement should be directed to Karl VanDevender at kvandevender@uaex.edu. This version uses the soils information that predate the Nov. 2017 update.

F: 11	01		General F	ield Informa	tion	- General F	ield Inform	nation	- General	Field Inform	mation	Genera	I Field Info	rmation	Gene	ral Field In	formation	General
Fields	s Shown	15			Buffer		350	1			adient (%)				ength (ft)		Flooding Frequency	
	otal nual	Field	County	Field Area (ac)	Length (ft)	Buffer Width (ft)	Appl Area (ac)	Soil Map Unit	Min	Max	Rep	Used	Min	Max	Rep	Used	Data Base	Used
PI	N				(/		3					1 1 1 1 1					Default	
√alue	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show
aluc	(+/-)	(Column Default Value)	Newton															
32	-10	H1	Newton	7.30			7.30	42	3	8	5	5	15	75	45	45	None	None
28	-18	H2	Newton	6.00			6.00	43	8	20	14	14	15	30	20	20	None	None
48	-22	H3	Newton	13.60			13.60	48	0	3	2	2	15	75	45	45	Occasional	
24	-16	H4	Newton	6.80			6.80	43	8	20	14	14	15	30	20	20	None	None
63	-86	H7	Newton	64.30			64.30	48	0	3	2	2	15	75	45	45	Occasional	Occasiona
21	-177	H8	Newton	8.60			8.60	51	2	5	2.5	2.5	15	75	45	45	None	None
51	-124	H9	Newton	35.50			35.50	50	0	3	2	2	15	75	45	45	Occasional	Occasiona
21		H10	Newton	29.30			29.30	51	2	5	2.5	2.5	15	75	45	45	None	None
16		H11	Newton	14.20			14.20	43	8	20	14	14	15	30	20	20	None	None
40		H12	Newton	11.40			11.40	50	0	3	2	2	15	75	45	45	Occasional	Occasiona
15		H13	Newton	50.90			50.90	43	8	20	14	14	15	30	20	20	None	None
23		H14	Newton	8.10			8.10	43	8	20	14	14	15	30	20	20	None	None
26		H15	Newton	37.50			37.50	43	8	20	14	14	15	30	20	20	None	None
31		H16	Newton	15.20			15.20	50	0	3	2	2	15	75	45	45	Occasional	Occasional
32 arm To		H17	Newton	31.90			31.90	1	3	8	5	5	15	75	45	45	None	None

Available

Surpluses/Deficits (+/-)

Arkansas Nutrient Managen

Planner:	Monica Hancock								
Plan Description:	C & H 2017 Year End Re								
Beta Test Version	for Use by Select Planne								
writing of Nutrient M	lanagement Plans for the a								
worksheet estimates	worksheet estimates the litter production for th								
each field, assists w	ith the allocation of nutrier								
available for off farm	n use. This worksheet is th								
to the 2009 Arkansas P Index developed by a									
	or suggestions for improve								
kvandevender@uae	ex.edu. This version uses								

F:-14	- 01	The TAX OF THE	ield Informatio	n (Seneral Field Inform	nation General Field Info	mation				P	Additional E	Best Manage	ment Prac	tices
	ls Shown	15	Predominate	Percent	Conservation		DUCLE 4	DUGI E O				F:W	0		Riparian
	Total nnual	Field	Vegetation	Ground Cover	Support Practices (P)	Pasture Use	(ton/ac)	(ton/ac)	Diversion	Terrace	Pond	Filter Strip	Grassed Waterway	Fencing	Forest Buffer
PI	N	100	1000									Part San All		17	100
Value	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show
value	(+/-)	(Column Default Value)													
32	-10	H1	Grass	95-100	None	Rotational Grazing	0.12	0.12				G 36 775			
28	-18	H2	Grass	95-100	None	Rotational Grazing	0.28	0.28						CONTRACTOR	
48	-22	H3	Grass	95-100	None	Rotational Grazing	0.05	0.05							
24	-16	H4	Grass	95-100	None	Rotational Grazing	0.28	0.28							
63	-86	H7	Grass	95-100	None	Rotational Grazing	0.05	0.05							All the second
21	-177	H8	Grass	95-100	None	Rotational Grazing	0.05	0.05							
51	-124	H9	Grass	95-100	None	Rotational Grazing	0.05	0.05							55 6 6 6
21		H10	Grass	95-100	None	Rotational Grazing	0.05	0.05	See Street Control						
16	-77	H11	Grass	95-100	None	Rotational Grazing	0.28	0.28				10 m			
40		H12	Grass	95-100	None	Rotational Grazing	0.05	0.05							
15		H13	Grass	95-100	None	Rotational Grazing	0.28	0.28							
23		H14	Grass	95-100	None	Rotational Grazing	0.28	0.28							
26		H15	Grass	95-100	None	Rotational Grazing	0.28	0.28							
31		H16	Grass	95-100	None	Rotational Grazing	0.05	0.05							
32	-86	H17	Grass	95-100	None	Rotational Grazing	0.12	0.12							

Farm Totals
Available
Surpluses/Deficits (+/-)

Arkansas Nutrient Managem

Planner:	Monica Hancock								
	C & H 2017 Year End Rep								
Beta Test Version for Use by Select Planne									
writing of Nutrient M	writing of Nutrient Management Plans for the a								
worksheet estimates	worksheet estimates the litter production for th								
each field, assists w	ith the allocation of nutrier								
available for off farm	n use. This worksheet is th								
to the 2009 Arkansas P Index developed by a									
observed problems or suggestions for improve									
kvandevender@uaex.edu. This version uses									

- :	0.1				Nutrient	Application Inf	ormation	Nutrient App	lication Inforr	nation	Nu	trient Ap	plication	Information	Nutri	ent Applica	ation Information		
Field	s Shown	15	Riparian		Applicat	tion Group 1 -	Application	n Group 1 -	Applic	cation Gr	oup 1	-			Application Group 2 Applic				
	Γotal nnual	Field	Herbaceous Cover	Field Borders	Timing	Appl Method	Nutrient Source	Bulk Rate	Units	N	P2O5	K20		Group Sub	Timing	Appl	Nutrient Source		
PI	Ν									(lb/ac)	(lb/ac)	(lb/ac)	Sub PI	PI Range		Method			
Value	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show		
value	(+/-)	(Column Default Value)									1000								
32	-10	H1			March-June	Surface	HP 1 Feb 2017	6.58	1000 gal/ac	122	200	113	15	Low					
28	-18	H2			March-June	Surface	HP 1 Feb 2017	4.00	1000 gal/ac	74	122	69	10	Low					
48	-22	H3			March-June	Surface	HP 1 Feb 2017	4.41	1000 gal/ac	82	134	76	18	Low					
24	-16	H4			March-June	Surface	HP 1 Feb 2017	5.74	1000 gal/ac	107	174	99	14	Low					
63	-86	H7			March-June	Surface	HP 1 Feb 2017	3.97	1000 gal/ac	74	121	68	16	Low	July-Oct	Surface	HP 1 Feb 2017		
21	-177	H8			March-June	Surface	HP 1 Feb 2017	3.49	1000 gal/ac	65	106	60	8	Low	July-Oct	Surface	HP 1 Feb 2017		
51	-124	H9			March-June	Surface	HP 1 Feb 2017	6.08	1000 gal/ac	113	185	105	25	Low	July-Oct	Surface	HP 1 Feb 2017		
21	-153	H10			March-June	Surface	HP 1 Feb 2017	2.25	1000 gal/ac	42	68	39	5	Low	July-Oct	Surface	HP 1 Feb 2017		
16	-77	H11			March-June	Surface	HP 1 Feb 2017	4.44	1000 gal/ac	83	135	76	11	Low					
40	-160	H12			March-June	Surface	HP 1 Feb 2017	3.95	1000 gal/ac	73	120	68	16	Low					
15		H13			March-June	Surface	HP 1 Feb 2017	1.57	1000 gal/ac	29	48	27	4	Low	July-Oct	Surface	HP 1 Feb 2017		
23	-168	H14			March-June		HP 1 Feb 2017	4.44	1000 gal/ac	83	135	76	11	Low					
26		H15			March-June		HP 1 Feb 2017	4.48	1000 gal/ac	83	136	77	11	Low					
31		H16			March-June	Surface	HP 1 Feb 2017		1000 gal/ac					0.8.47					
32	-86	H17			March-June	Surface	HP 1 Feb 2017	4.51	1000 gal/ac	84	137	78	11	Low					

Farm Totals
Available
Surpluses/Deficits (+/-)

Arkansas Nutrient Managen

Planner:	Monica Hancock								
Plan Description:	C & H 2017 Year End Re								
Beta Test Version for Use by Select Planne									
writing of Nutrient Management Plans for the a									
worksheet estimates	s the litter production for th								
each field, assists w	ith the allocation of nutrier								
available for off farm	use. This worksheet is th								
to the 2009 Arkansas P Index developed by a									
observed problems or suggestions for improve									
kvandevender@uaex.edu. This version uses									

			Nutr	ient Application	on Inform	ation	Nut	rient App	olication Infor	mation	Nutrien	t Application Infor	mation	Nutrient A	pplication	n Informa	ation			
Field	ls Shown	15	ation Grou	p 2 A	Applicatio	n Group	2			Application Group 3 Application Group 3 Application Group 3										
	Total nnual	Field	Bulk Rate	Units	N	P205	K20		Group Sub	Timing	Appl	Nutrient Source	Bulk Rate	Units	N	P205	K20		Group Sub	
PI	N				(lb/ac)	(lb/ac)	(lb/ac)	Sub PI	PI Range		Method				(lb/ac)	(lb/ac)	(lb/ac)	Sub PI	PI Range	
Value	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	
value	(+/-)	(Column Default Value)				17 5.81			11/2/2013						24	e energy la	1		15	
32	-10	H1								July-Oct	Surface	HP 1 July 2017	1.64	1000 gal/ac	28	49	24	3	Low	
28	-18	H2								July-Oct	Surface	HP 1 July 2017	4.00	1000 gal/ac	67	120	58	8	Low	
48		H3		- 11-1-1-12						July-Oct	Surface	HP 1 July 2017	3.31	1000 gal/ac	56	99	48	12	Low	
24	-16	H4			1 1 1 1 1				W 4 -	July-Oct	Surface	HP 1 July 2017	2.21	1000 gal/ac	37	66	32	4	Low	
63	-86	H7	4.99	1000 gal/ac	93	152	86	18	Low	July-Oct	Surface	HP 1 July 2017	2.80	1000 gal/ac	47	84	41	10	Low	
21	-177	H8	3.14	1000 gal/ac	58	95	54	5	Low											
51	-124	H9	0.85	1000 gal/ac	16	26	15	3	Low	July-Oct	Surface	HP 1 July 2017	2.82	1000 gal/ac	47	84	41	10	Low	
21	-153	H10	1.84	1000 gal/ac	34	56	32	3	Low	July-Oct	Surface	HP 1 July 2017	4.20	1000 gal/ac	71	126	61	7	Low	
16	-77	H11						14.5								-				
40		H12								July-Oct	Surface	HP 1 July 2017	3.95	1000 gal/ac	66	118	57	15	Low	
15	-202	H13	1.18	1000 gal/ac	22	36	20	2	Low	July-Oct	Surface	HP 1 July 2017	2.77	1000 gal/ac	47	83	40	5	Low	
23	-168	H14								July-Oct	Surface	HP 1 July 2017	2.96	1000 gal/ac	50	89	43	6	Low	
26		H15			12.50					July-Oct	Surface	HP 1 July 2017	4.00	1000 gal/ac	67	120	58	8	Low	
31		H16						- 1	1 100	July-Oct	Surface	HP 1 July 2017	5.92	1000 gal/ac	99	177	86	22	Low	
32	-86	H17			3			1 2 4		July-Oct	Surface	HP 1 July 2017	7.71	1000 gal/ac	130	231	112	15	Low	

Farm Totals

Available

Surpluses/Deficits (+/-)

Arkansas Nutrient Managen

Planner:	Monica Hancock
Plan Description:	C & H 2017 Year End Rej
Beta Test Version	for Use by Select Planne
writing of Nutrient I	Management Plans for the a
worksheet estimate	es the litter production for th
each field, assists	with the allocation of nutrier
available for off far	m use. This worksheet is th
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observed problems	or suggestions for improve
kvandevender@ua	ex.edu. This version uses

			Soi	I Test P	and Soil S	ub PI			To	otal =				Per	Acre Nutrient Bu	dget	
Field	s Shown	15			0-110-1	0 10 1		Application Totals		pplications	Ap	plication Rate To	otals	Nutrient Recommendation			
	Total nnual	Field	ppm	lb/ac	Soil Sub Pl	Range Ap	App Sub	App Sub Pls Range	Total PI Value	PI Range	N (lb/ac)	P2O5 (lb/ac)	K2O (lb/ac)	N (lb/ac)	P2O5 (lb/ac)	K2O (lb/ac)	
PI	N	(Calvery Chaves Valve)	Oh	Oh	Oh	Oh				01	01-	- 01	01	01	01	01	
Value	Balance (+/-)	(Column Shown Value) (Column Default Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	
32	-10	H1	173	230	14	Low	18	Low	32	Low	150	249	137	160	0	0	
28	-18	H2	112	149	10	Low	18	Low	28	Low	142	241	127	160	0	0	
48	-22	H3	120	160	18	Low	30	Low	48	Medium	138	233	124	160	0	220	
24	-16	H4	75	100	6	Low	18	Low	24	Low	144	240	131	160	0	40	
63	-86	H7	132	176	19	Low	44	Medium	63	Medium	214	356	195	300	0	300	
21	-177	H8	94	125	8	Low	13	Low	21	Low	123	201	114	300	0	250	
51	-124	H9	86	114	13	Low	38	Medium	51	Medium	176	295	160	300	0	250	
21	-153	H10	71	94	6	Low	15	Low	21	Low	147	250	131	300	0	250	
16	-77	H11	53	70	5	Low	11	Low	16	Low	83	135	76	160	0	60	
40	-160	H12	59	78	9	Low	31	Low	40	Medium	140	238	125	300	0	300	
15	-202	H13	50	67	4	Low	11	Low	15	Low	98	166	87	300	45	250	
23	-168	H14	67	89	6	Low	17	Low	23	Low	132	224	119	300	0	200	
26	-9	H15	79	105	7	Low	19	Low	26	Low	151	256	135	160	0	0	
31	-61	H16	63	84	9	Low	22	Low	31	Low	99	177	86	160	0	150	
32	-86	H17	68	90	6	Low	26	Low	32	Low	214	368	189	300	0	350	

Farm Totals Available Surpluses/Deficits (+/-)

Arkansas Nutrient Managem

Planner:	Monica Hancock
Plan Description:	C & H 2017 Year End Rep
Beta Test Version	for Use by Select Planne
writing of Nutrient M	lanagement Plans for the a
worksheet estimate	s the litter production for th
each field, assists w	ith the allocation of nutrier
available for off farn	n use. This worksheet is th
to the 2009 Arkansa	as P Index developed by a
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kvandevender@uae	ex.edu. This version uses

Fields Shown Total Annual		15 Field		Per Field Nutrient Budget Per Field Nutrient Budget Per Field Nutrient Budget										
			Surpluses / Deficits (+/-)			Application Rate Totals			Nutrient Recommendation (lb/field)			Surpluses / Deficits (+/-)		
			N (lb/ac)	ac) P2O5 (lb/ac	K2O (lb/ac)	N (lb/field)	P2O5 (lb/field)	K2O (lb/field)	N (lb/field)	P2O5 (lb/field)	K2O (lb/field)	N (lb/field)	P2O5	K2O (lb/field)
PI	N								Charles the state of	(ID/IIeld)			(lb/field)	
/alue	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show	Show
value	(+/-)	(Column Default Value)					The state of the s							
32	-10	H1	-10	249	137	1,094	1,818	1,000	1,168	0	0	-74	1,818	1,000
28	-18	H2	-18	241	127	850	1,447	761	960	0	0	-110	1,447	761
48	-22	H3	-22	233	-96	1,872	3,170	1,685	2,176	0	2,992	-304	3,170	-1,308
24	-16	H4	-16	240	91	977	1,634	888	1.088	0	272	-111	1.634	616
63	-86	H7	-86	356	-105	13,738	22,892	12,517	19,290	0	19,290	-5,552	22,892	-6,773
21	-177	H8	-177	201	-136	1,060	1,733	980	2,580	0	2,150	-1,520	1,733	-1,170
51	-124	H9	-124	295	-90	6,256	10,468	5.681	10,650	0	8,875	-4,394	10,468	-3,194
21	-153	H10	-153	250	-119	4,298	7,326	3,848	8,790	0	7,325	-4,492	7,326	-3,478
16	-77	H11	-77	135	16	1,172	1,915	1,084	2,272	0	852	-1,100	1,915	232
40	-160	H12	-160	238	-175	1,593	2,714	1,427	3,420	0	3,420	-1,827	2,714	-1,994
15	-202	H13	-202	121	-163	4,973	8,472	4,453	15,270	2,291	12,725	-10,297	6,181	-8,273
23	-168	H14	-168	224	-81	1.073	1,812	967	2,430	0	1,620	-1,357	1,812	-653
26	-9	H15	-9	256	135	5,645	9,592	5.065	6,000	0	0	-355	9,592	5,065
31	-61	H16	-61	177	-64	1,512	2,691	1,305	2,432	0	2,280	-920	2,691	-975
32	-86	H17	-86	368	-161	6,811	11,733	6,044	9,570	0	11,165	-2,759	11,733	-5,121
arm To	otals					52,924	89,417	47,703	88,096	2,291	72,966	-35,172	87,126	-25,263
vailabl	е					47	66	55				7		_5,200

Available Surpluses/Deficits (+/-)

47 66 55 -52,876 -89,351 -47,648

Arkansas Nutrient Managen

Planner:	Monica Hancock
Plan Description:	C & H 2017 Year End Re
Beta Test Version	for Use by Select Planne
writing of Nutrient M worksheet estimate each field, assists w available for off farn to the 2009 Arkansa	lanagement Plans for the as the litter production for the vith the allocation of nutrier in use. This worksheet is that P Index developed by a
observed problems	or suggestions for improve
kvandevender@uae	ex.edu. This version uses

--- Manure Distribution Summary, Grouped by Source, Appl Time, Field ----- Manure Distribution Summary, Grouped by Source, Appl Time, Field ----- Manure Distribution Summary, Grouped by Source, Appl Time, Field ------ Manure Distribution Summary, Grouped by Source, Appl Time, Field ------HP 1 Feb 2017 1000 gal Fields Shown March-June July-Oct Nov-Feb Annual 15 Total Per Per Per Per Per Per Per Per Appl PI Field Annual Appl PI Appl PI Appl PI Field Acre Acre Field Acre Field Acre Field N (Column Shown Value) Show Balance Show Value (+/-) (Column Default Value) 32 -10 6.58 48.00 15 6.58 48.00 15.00 28 -18 H2 4.00 24.00 10 4.00 24.00 10.00 48 -22 НЗ 4.41 60.00 18 4.41 60.00 18.00 24 -16 H4 5.74 39.00 14 5.74 39.00 14.00 63 -86 H7 3.97 255.00 16 4.99 321.00 576.00 8.96 34.00 21 -177 H8 3.49 30.00 3.14 27.00 6.63 57.00 13.00 51 -124 H9 6.08 216.00 25 0.85 30.00 3 6.93 246.00 28.00 21 -153 H10 2.25 66.00 1.84 54.00 120.00 3 4.10 8.00 16 -77 H11 4.44 63.00 11 4.44 63.00 11.00 40 -160 H12 3.95 45.00 16 3.95 45.00 16.00 15 -202 H13 1.57 80.00 4 1.18 60.00 2.75 140.00 6.00 23 -168 H14 4.44 36.00 11 36.00 4.44 11.00 26 -9 H15 4.48 168.00 11 168.00 4.48 11.00 31 -61 H16 32 -86 H17 4.51 144.00 11 4.51 144.00 11.00 **Farm Totals** 1274.00 492.00 1766.00

Available

Surpluses/Deficits (+/-)

Arkansas Nutrient Managem

Planner:	Monica Hancock										
Plan Description:	C & H 2017 Year End Re										
Beta Test Version	for Use by Select Planne										
writing of Nutrient Management Plans for the a											
worksheet estimates the litter production for th											
each field, assists with the allocation of nutrier											
available for off farm use. This worksheet is th											
to the 2009 Arkansa	to the 2009 Arkansas P Index developed by a										
observed problems	or suggestions for improve										
kvandevender@uae	ex.edu. This version uses										

Grouped by Source, Appl Time, Field - - - - - Manure Distribution Summary, Grouped by Source, Appl Time, Field - - - - - Manure Distribution Summary, Grouped by Source, Appl Time, F

							000		uly 2017			1000		
Fields Shown Total Annual		15 Field		March-June		July-Oct			0 gal Nov-Feb			Annual		
			Per Acre	Per Field	Appl PI	Per Acre	Per Field	Appl PI	Per Acre	Per Field	Appl PI	Per Acre	Per Field	Appl PI
PI	N Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Chau		1000	01			
alue	(+/-)	(Column Default Value)	SHOW	SHOW	Snow	Snow	Snow	Show	Show	Show	Show	Show	Show	Show
32	-10	H1			1413	1.64	12.00	3				1.64	12.00	3.00
28		H2			7 7 7 7 7	4.00	24.00	8	1.37	4 10 100		4.00	24.00	8.00
48		H3				3.31	45.00	12				3.31	45.00	12.00
24		H4				2.21	15.00	4				2.21	15.00	4.00
63		H7				2.80	180.00	10				2.80	180.00	10.00
21		H8					- 70 339	Transmission of the last	01-10-67		7 .		The state of the	Y STATE
51		H9				2.82	100.00	10	A A A A			2.82	100.00	10.00
21		H10				4.20	123.00	7			100	4.20	123.00	7.00
16		H11									and the second		10 m 1 m 1 m	
40		H12				3.95	45.00	15				3.95	45.00	15.00
15		H13				2.77	141.00	5		1000		2.77	141.00	5.00
23		H14				2.96	24.00	6				2.96	24.00	6.00
26		H15	The same of the sa			4.00	150.00	8				4.00	150.00	8.00
31		H16		- 1 5/		5.92	90.00	22				5.92	90.00	22.00
32		H17			7.00	7.71	246.00	15				7.71	246.00	15.00
ırm T	otals						1195.00						1195.00	

Available

Surpluses/Deficits (+/-)

Arkansas Nutrient Managen

Planner:	Monica Hancock								
Plan Description:	C & H 2017 Year End Re								
Beta Test Version	for Use by Select Planne								
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worksheet estimate	es the litter production for th								
each field, assists with the allocation of nutrier									
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observed problems	s or suggestions for improve								
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				Annua	Appl Totals			Annual			
		A. Carrier	Liquid					Annual Total PI =			
Fields Shown		15		1000 ga	ı	Total	S	Soil + Applications			
	otal nnual	Field	Per Acre	Per Field	Appl PI	Appl PI	Assoc. Appl Time	P I Value	Pl Range	Total PI Value	Pl Range
PI	N										-
Value	Balance	(Column Shown Value)	Show	Show	Show	Show	Show	Show	Show	Show	Show
	(+/-)	(Column Default Value)	200			2 10 10 2			The way	1000	7.3%
32	-10	H1	8.22	60.00	18	18	March-June	14	Low	32	Low
28	-18	H2	8.00	48.00	18	18	March-June	10	Low	28	Low
48	-22	H3	7.72	105.00	30	30	March-June	18	Low	48	Medium
24	-16	H4 .	7.94	54.00	18	18	March-June	6	Low	24	Low
63	-86	H7	11.76	756.00	44	44	March-June	19	Low	63	Medium
21	-177	H8	6.63	57.00	13	13	March-June	8	Low	21	Low
51	-124	H9	9.75	346.00	38	38	March-June	13	Low	51	Medium
21	-153	H10	8.29	243.00	15	15	March-June	6	Low	21	Low
16	-77	H11	4.44	63.00	11	11	March-June	5	Low	16	Low
40	-160	H12	7.89	90.00	31	31	March-June	9	Low	40	Medium
15	-202	H13	5.52	281.00	11	11	March-June	4	Low	15	Low
23	-168	H14	7.41	60.00	17	17	March-June	6	Low	23	Low
26	-9	H15	8.48	318.00	19	19	March-June	7	Low	26	Low
31	-61	H16	5.92	90.00	22	22	March-June	9	Low	31	Low
32	-86	H17	12.23	390.00	26	26	March-June	6	Low	32	Low

2961.00

Farm Totals Available Surpluses/Deficits (+/-)



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