

# FSA AND WELL TEST REPORT PACKET



A DIVISION OF WHITETAIL  
PROPERTIES REAL ESTATE, LLC

[RANCHANDFARMAUCTIONS.COM](http://RANCHANDFARMAUCTIONS.COM)

**Abbreviated 156 Farm Record**

**Operator Name**

CRP Contract Number(s) : None  
 Recon ID : 31-029-2024-54  
 Transferred From : None  
 ARCPLC G//F Eligibility : Eligible

**Farm Land Data**

Farmland	Cropland	DCP Cropland	WBP	EWP	WRP	GRP	Sugarcane	Farm Status	Number Of Tracts
148.54	140.79	140.79	0.00	0.00	0.00	0.00	0.0	Active	1
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped		CRP	MPL	DCP Ag.Rel. Activity	SOD	
0.00	0.00	140.79	0.00		0.00	0.00	0.00	0.00	

**Crop Election Choice**

ARC Individual	ARC County	Price Loss Coverage
None	CORN	None

**DCP Crop Data**

Crop Name	Base Acres	CCC-505 CRP Reduction Acres	PLC Yield	HIP
Corn	95.10	0.00	161	100
<b>TOTAL</b>	<b>95.10</b>	<b>0.00</b>		

**NOTES**

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**Tract Number** : 3972

**Description** : Most NW1/4 17-6-40  
**FSA Physical Location** : NEBRASKA/CHASE  
**ANSI Physical Location** : NEBRASKA/CHASE  
**BIA Unit Range Number** :  
**HEL Status** : HEL field on tract.Conservation system being actively applied  
**Wetland Status** : Tract does not contain a wetland  
**WL Violations** : None  
**Owners** : CARL ROBERT HARMON, SKIPPER BURTON HARMON  
**Other Producers** :  
**Recon ID** : 31-029-2024-53

**Tract Land Data**

Farm Land	Cropland	DCP Cropland	WBP	EWP	WRP	GRP	Sugarcane
148.54	140.79	140.79	0.00	0.00	0.00	0.00	0.0
State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	CRP	MPL	DCP Ag. Rel Activity	SOD
0.00	0.00	140.79	0.00	0.00	0.00	0.00	0.00

Abbreviated 156 Farm Record

Tract 3972 Continued ...

DCP Crop Data

Crop Name	Base Acres	CCC-505 CRP Reduction Acres	PLC Yield
Corn	95.10	0.00	161
<b>TOTAL</b>	<b>95.10</b>	<b>0.00</b>	

NOTES

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**Common Land Unit**

-  Non-Cropland
-  Cropland

2022 NAIP Ortho Imagery

2024 Program Year

Map Created April 24, 2024

**Farm 5888**

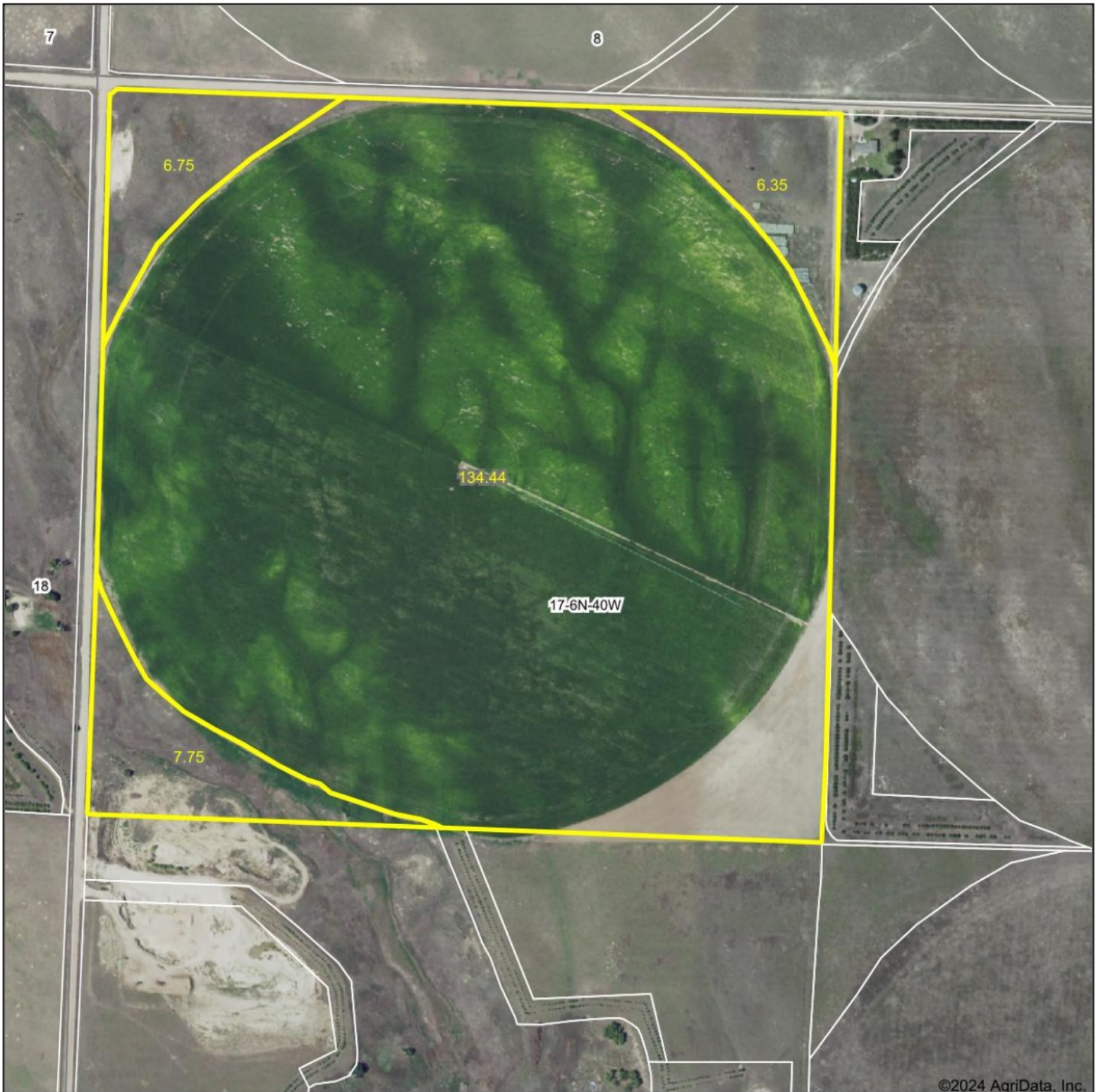
**Wetland Determination Identifiers**

-  Restricted Use
-  Limited Restrictions
-  Exempt from Wetland Provisions

**17-6-40W**

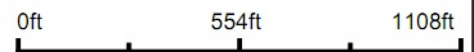
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# Aerial Map



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Boundary Center: 40.490114, -101.888140



WHITETAIL PROPERTIES REAL ESTATE  
HUNTING | RANCH | FARM | TIMBER

Maps Provided By:



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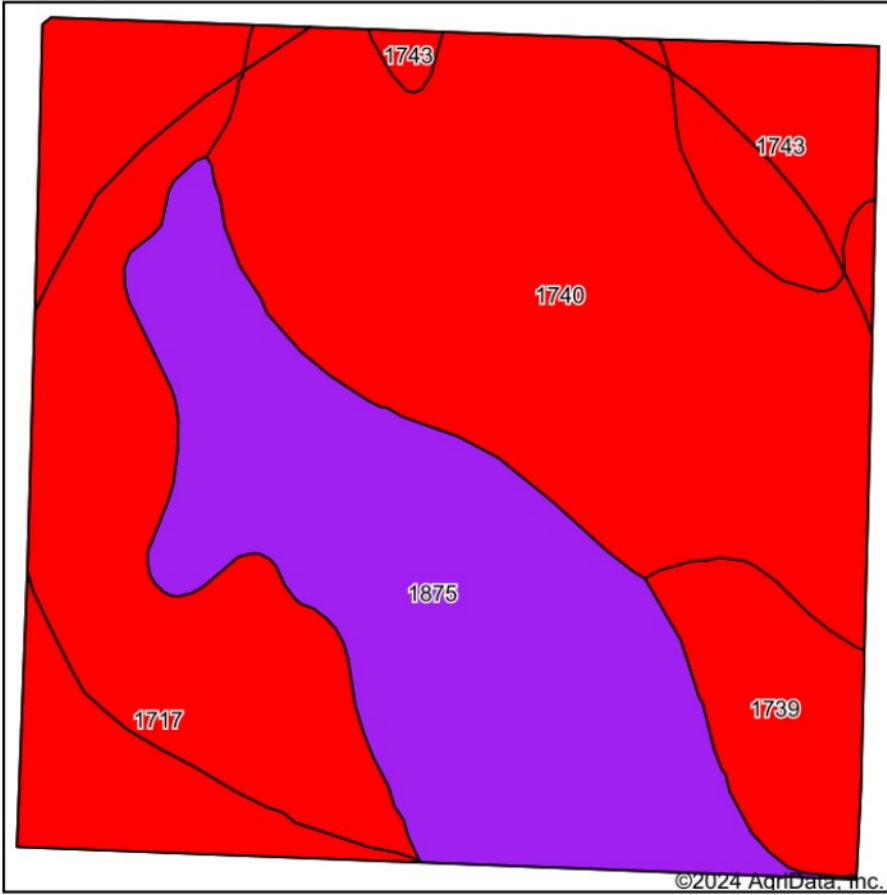
**17-6N-40W**  
**Chase County**  
**Nebraska**



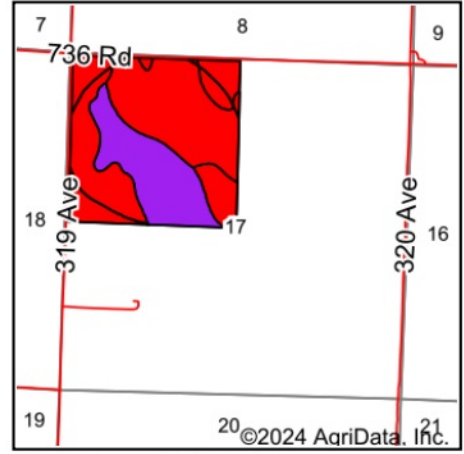
4/18/2024

Field borders provided by Farm Service Agency as of 5/21/2008.

# Soils Map



Soils data provided by USDA and NRCS.



State: **Nebraska**  
 County: **Chase**  
 Location: **17-6N-40W**  
 Township: **Champion**  
 Acres: **155.29**  
 Date: **4/18/2024**



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Maps Provided By:



Area Symbol: NE029, Soil Area Version: 24

Code	Soil Description	Acres	Percent of field	SRPG Legend	SRPG	*n NCCPI Overall	*n NCCPI Corn	*n NCCPI Small Grains	*n NCCPI Soybeans
1740	Rosebud-Canyon loams, 3 to 6 percent slopes	54.91	35.4%		22	27	14	24	27
1875	Woody fine sandy loam, 0 to 3 percent slopes	42.62	27.4%		60	49	27	48	49
1717	Otero-Canyon loams, 6 to 20 percent slopes	38.55	24.8%		27	34	19	34	33
1743	Rosebud-Canyon loams, 6 to 12 percent slopes, eroded	9.68	6.2%		19	25	15	25	23
1739	Rosebud-Canyon loams, 1 to 3 percent slopes	9.53	6.1%		23	30	15	27	30
<b>Weighted Average</b>					<b>33.5</b>	<b>*n 34.8</b>	<b>*n 18.9</b>	<b>*n 33.3</b>	<b>*n 34.5</b>

\*n: The aggregation method is "Weighted Average using all components"

Soils data provided by USDA and NRCS.

# SARGENT IRRIGATION CO.

## Efficiency Test Report Electric Motor

Latitude 40° 29' 24"  
 Longitude 101° 53' 19"  
 Upper Bearing 7220  
 Lower Bearing 6211

### Flow Instrument Data

Pipe Size \_\_\_\_\_  
 Calibration \_\_\_\_\_  
 GPM/ft/sec \_\_\_\_\_  
 Name Skippier Harman + Carl Harman Address \_\_\_\_\_ Date 3-29-24  
 Well Depth \_\_\_\_\_ Casing Dia. \_\_\_\_\_ Yr. Inst. \_\_\_\_\_ Bowls 5-10HM Legal NW 17-6-40 Chase Co.  
 Pump Mfg. Wel-Sinc SN 76242 Col. 120?? ft. 8 5/8 x 2 x 1 1/4  
 Drive Mtg. V.S. (RV) HP 75 SN R1002551M  
 Sprinkler \_\_\_\_\_ Type \_\_\_\_\_ Nozzled for \_\_\_\_\_ GPM @ \_\_\_\_\_ PSI  
 Static Water Level 86 ft.

	Pump				Pumping		Pump	Total	Flow			Water
	RPM	PSI	x	2.31 =	Ft. +	Level +	Loss =	Hd. Ft. x	GPM ÷	3960 =	HP	
1.	<u>1781</u>	<u>53</u>	x	<u>2.31 =</u>	<u>122.4</u>	<u>96</u>	<u>+ 3.0</u>	<u>= 221.4</u>	x <u>775</u>	<u>÷ 3960</u>	<u>=</u>	<u>43.3</u>
2.			x	2.31 =			+ =	=	x	÷ 3960	=	
3.			x	2.31 =			+ =	=	x	÷ 3960	=	
4.			x	2.31 =			+ =	=	x	÷ 3960	=	

### Electric 3 Phase:

Meter # \_\_\_\_\_ Meter Multiplier x \_\_\_\_\_ Frame # 3657P  
 Full Load Amps 91.3 Volts w/Motor Off 492 Rated RPM 1765

Revs	x	x 3.6	÷	Sec.	=	KWH/h ÷ .746 =	Hook Up Horse Power
1.			÷		=		
2.			÷		=		
3.			÷		=		
4.			÷		=		

Volts	x	Amps	x	1.732	÷	1000	x	Power Fact	=	KWH/h	x	1.34	x	Effic. Fact	-	Thrust Loss	=	Pump H.P.
1.	<u>471.7</u>	x	<u>67.52</u>	x	<u>1.732</u>	÷	<u>1000</u>	x	<u>.88</u>	<u>= 49.0</u>	x	<u>1.34</u>	x	<u>91.5</u>	-		<u>= 60.1</u>	
2.		x		x	1.732	÷	1000	x		=	x	1.34	x		-		=	
3.		x		x	1.732	÷	1000	x		=	x	1.34	x		-		=	
4.		x		x	1.732	÷	1000	x		=	x	1.34	x		-		=	

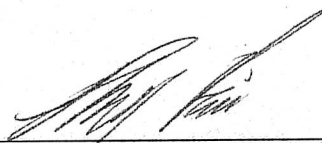
### Pump Efficiency

Water HP	÷	Pump HP	=	Pump Efficiency
1.	<u>43.3</u>	÷	<u>60.1</u>	<u>= 72.0 %</u>
2.		÷		= %
3.		÷		= %
4.		÷		= %

### Bowl Efficiency

Pump HP	-	Lineshaft Loss	=	Bowl HP	Water HP	÷	Bowl HP	=	Efficiency
1.	<u>60.1</u>	-	<u>1.0</u>	<u>= 59.1</u>	<u>43.3</u>	÷	<u>59.1</u>	<u>= 73.2 %</u>	
2.		-		=		÷		= %	
3.		-		=		÷		= %	
4.		-		=		÷		= %	

Comments: Approx 25' 8" Underground / Pivot on End Gun Not on Motor sound OK  
Pump has slight clatter / some growling from deeper  
Slight Vibs  
Ps. & Callers at well



Efficiency Technician