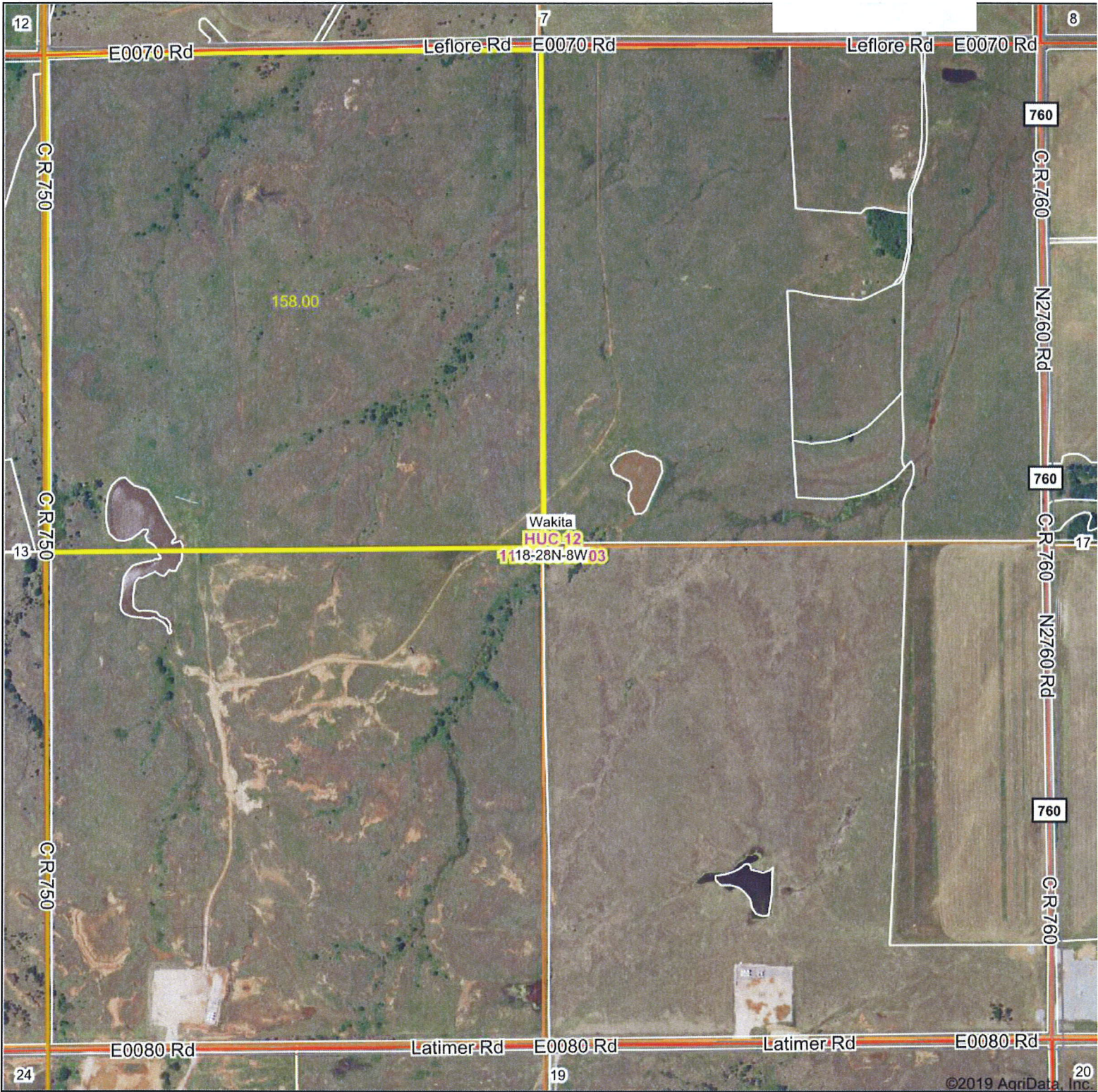


Aerial Map

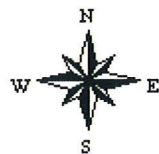
T1



Map Center: 36° 54' 19.9, -98° 6' 2.24



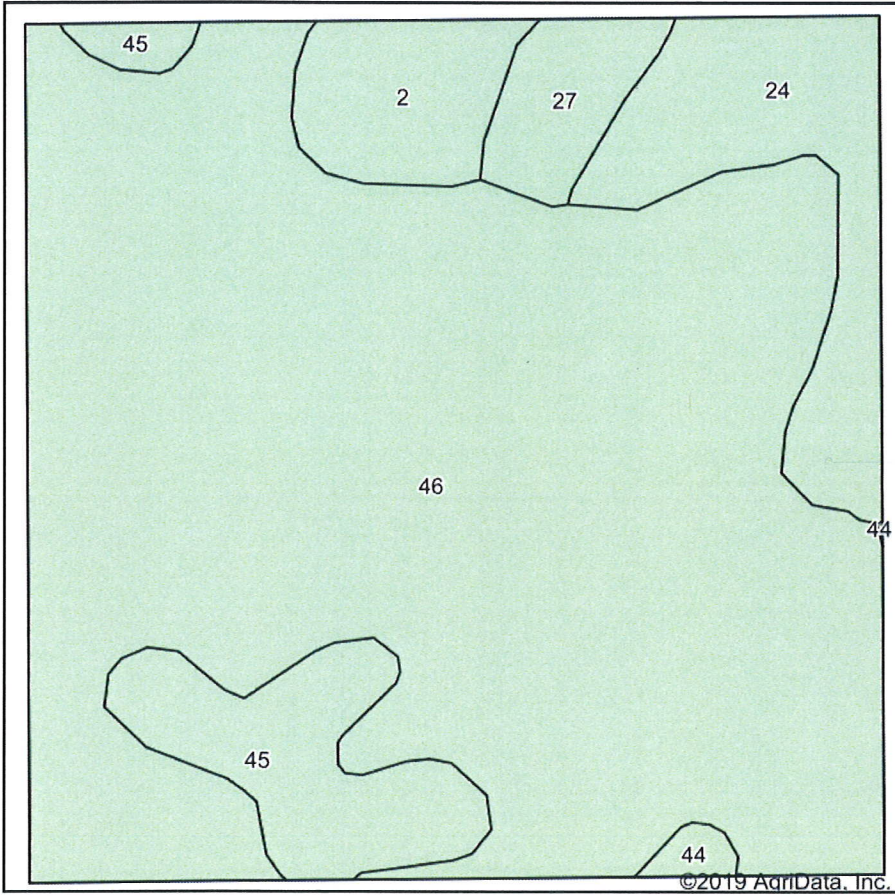
18-28N-8W
Grant County
Oklahoma



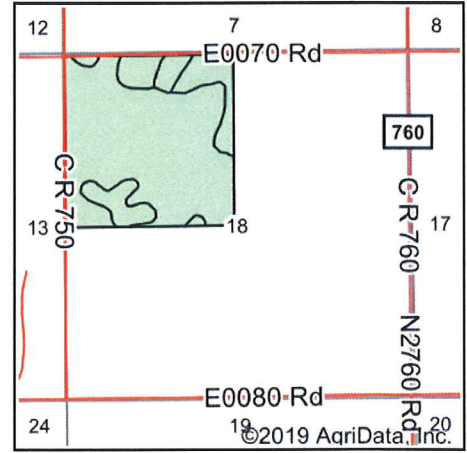
Maps Provided By:
surety
CUSTOMIZED ONLINE MAPPING
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7/11/2019

Soils Map



Soils data provided by USDA and NRCS.



State: **Oklahoma**
 County: **Grant**
 Location: **18-28N-8W**
 Township: **Wakita**
 Acres: **158**
 Date: **7/11/2019**



T1

Maps Provided By



CUSTOMIZED ONLINE MAPPING

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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Grain sorghum	Grain sorghum Irrigated	Weeping lovegrass	Wheat	Cotton lint	Ba
46	Ironmound-Nash complex, 3 to 12 percent slopes	120.13	76.0%	> 6.5ft.	VIe	4028	3	3		2			3	20	
24	Kingfisher silt loam, 1 to 3 percent slopes	13.74	8.7%	> 6.5ft.	IIIe	4662	5	5		40			30	13	
45	Ironmound loam, 3 to 5 percent slopes, eroded	11.60	7.3%	> 6.5ft.	IVs	3234	2	2	2	2			12		
2	Devol fine sandy loam, 1 to 3 percent slopes	6.97	4.4%	> 6.5ft.	IIIe	2772	5			30	5	6	20	213	
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	4.74	3.0%	2.5ft.	IIIs	4111	4	4	2	28			26		
44	Ironmound loam, 1 to 3 percent slopes	0.82	0.5%	> 6.5ft.	IVs	3277	3	3		1			20		
Weighted Average						3968	3.2	3	0.2	7.3	0.2	0.3	7.5	25.7	

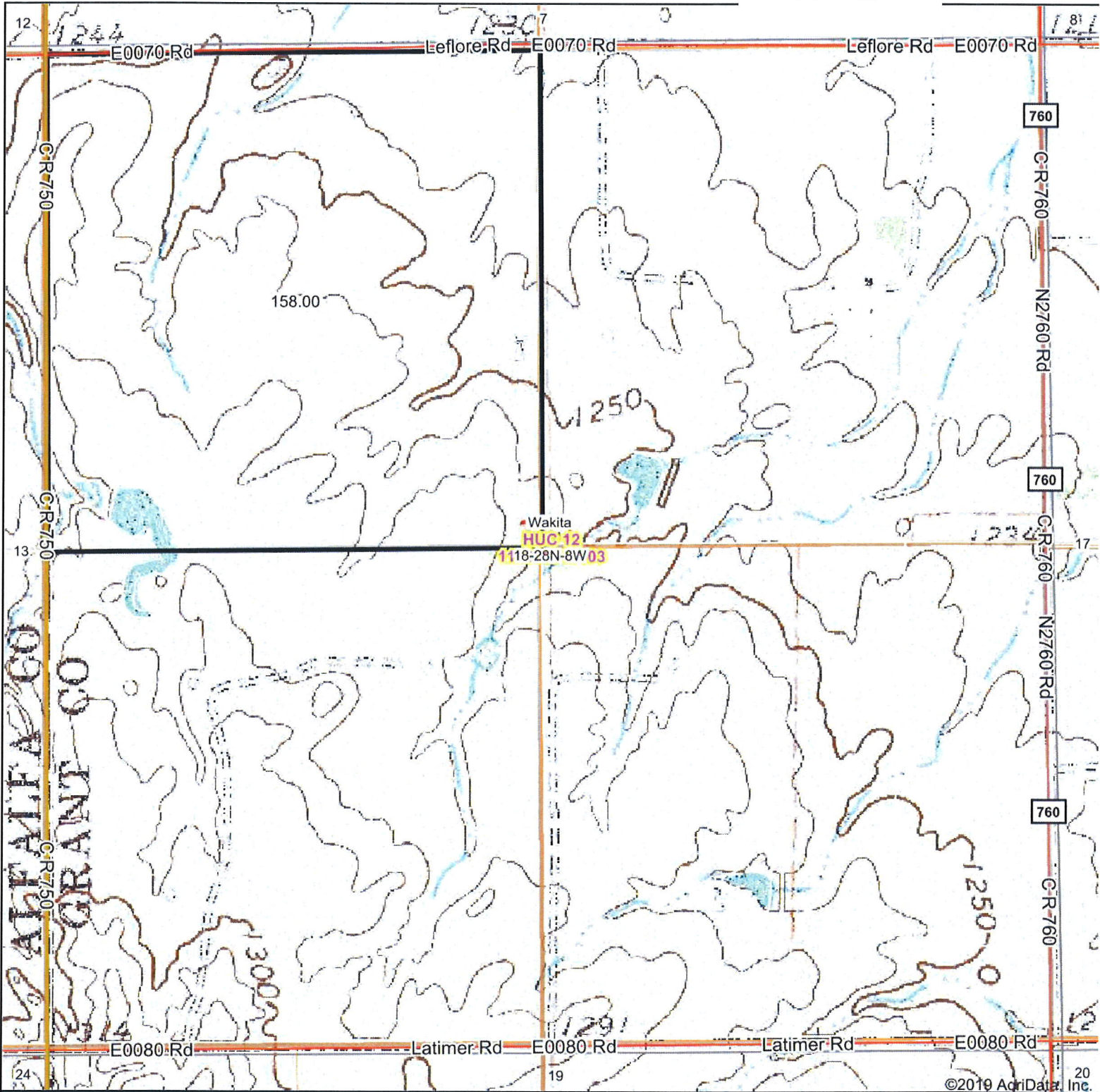
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

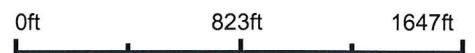
Soils data provided by USDA and NRCS.

Topography Map

T1



map center: 36° 54' 19.9, -98° 6' 2.24



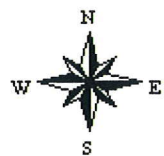
Maps Provided By:



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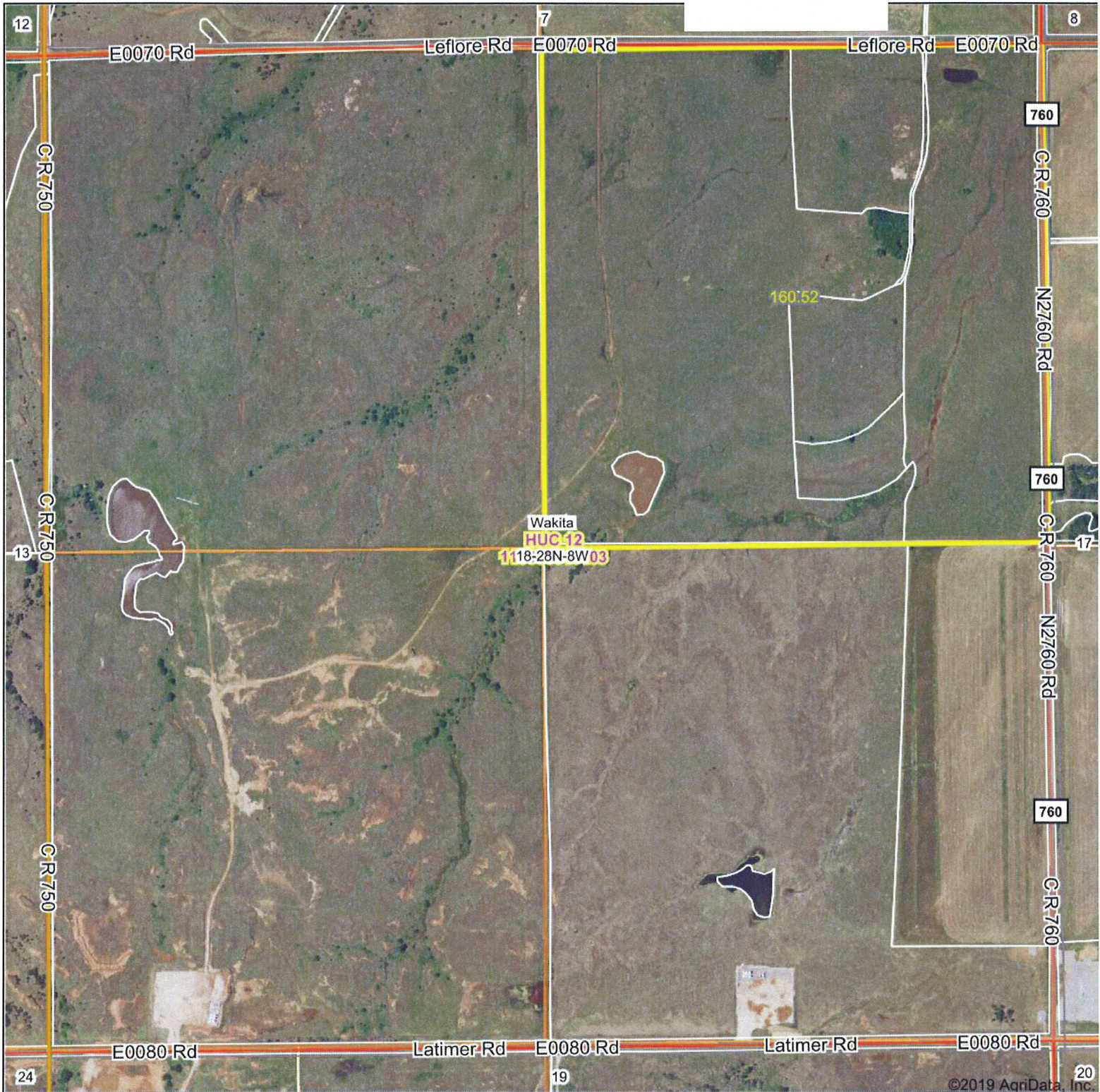
18-28N-8W
Grant County
Oklahoma



7/11/2019

Aerial Map

T2

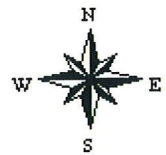


©2019 AgriData, Inc.

Map Center: 36° 54' 19.9, -98° 6' 2.24



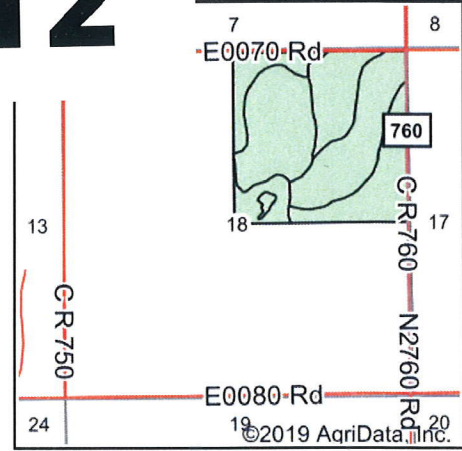
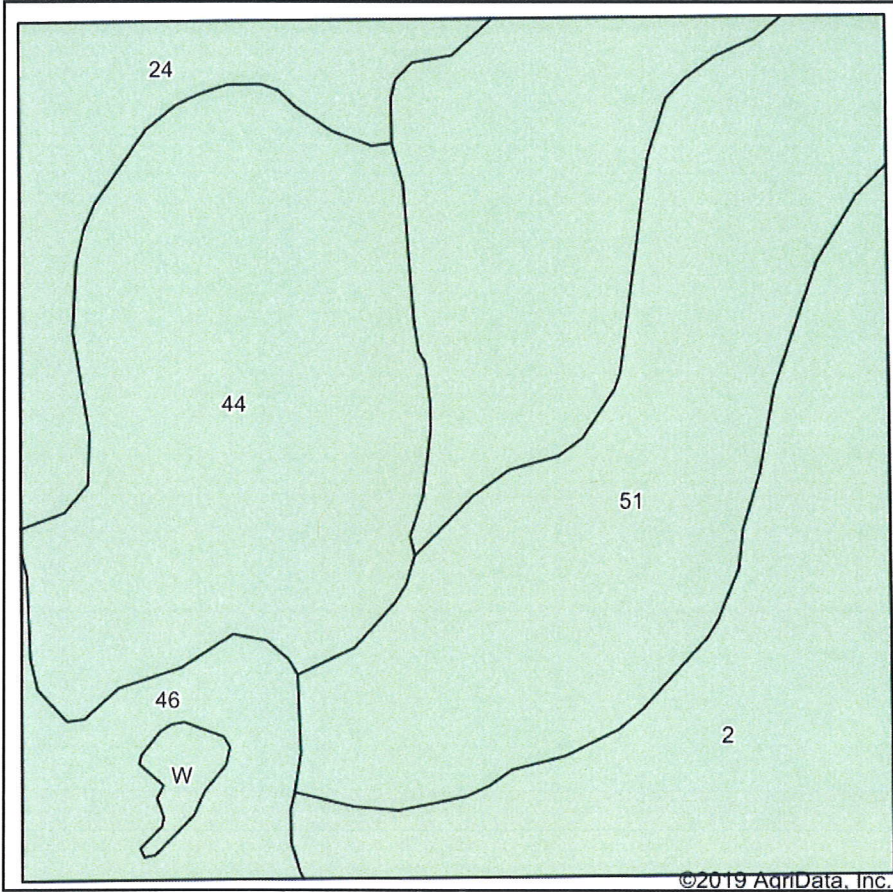
18-28N-8W
Grant County
Oklahoma



7/11/2019

Soils Map

T2



State: **Oklahoma**
 County: **Grant**
 Location: **18-28N-8W**
 Township: **Wakita**
 Acres: **160.52**
 Date: **7/11/2019**



Maps Provided By:



Soils data provided by USDA and NRCS.

Area Symbol: OK053. Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Alfalfa hay	Grain sorghum	Grain sorghum Irrigated	Weeping lovegrass	Wheat	Cotton lint	Barley	Oats	*n NCC Over
2	Devol fine sandy loam, 1 to 3 percent slopes	53.47	33.3%	IIIe	2772	5			30	5	6	20	213			
44	Ironmound loam, 1 to 3 percent slopes	40.36	25.1%	IVs	3277	3	3		1			20				
51	Lovedale fine sandy loam, 1 to 3 percent slopes	40.30	25.1%	IIe	3250	6	5	3	42		6	28				
24	Kingfisher silt loam, 1 to 3 percent slopes	14.06	8.8%	IIIe	4662	5	5		40			30	13	2	2	
46	Ironmound-Nash complex, 3 to 12 percent slopes	10.95	6.8%	VIe	4028	3	3		2			3	20			
W	Water	1.38	0.9%	VIII	0											
Weighted Average					3246.4	4.6	2.7	0.8	24.4	1.7	3.5	21.6	73.5	0.2	0.2	*n 3

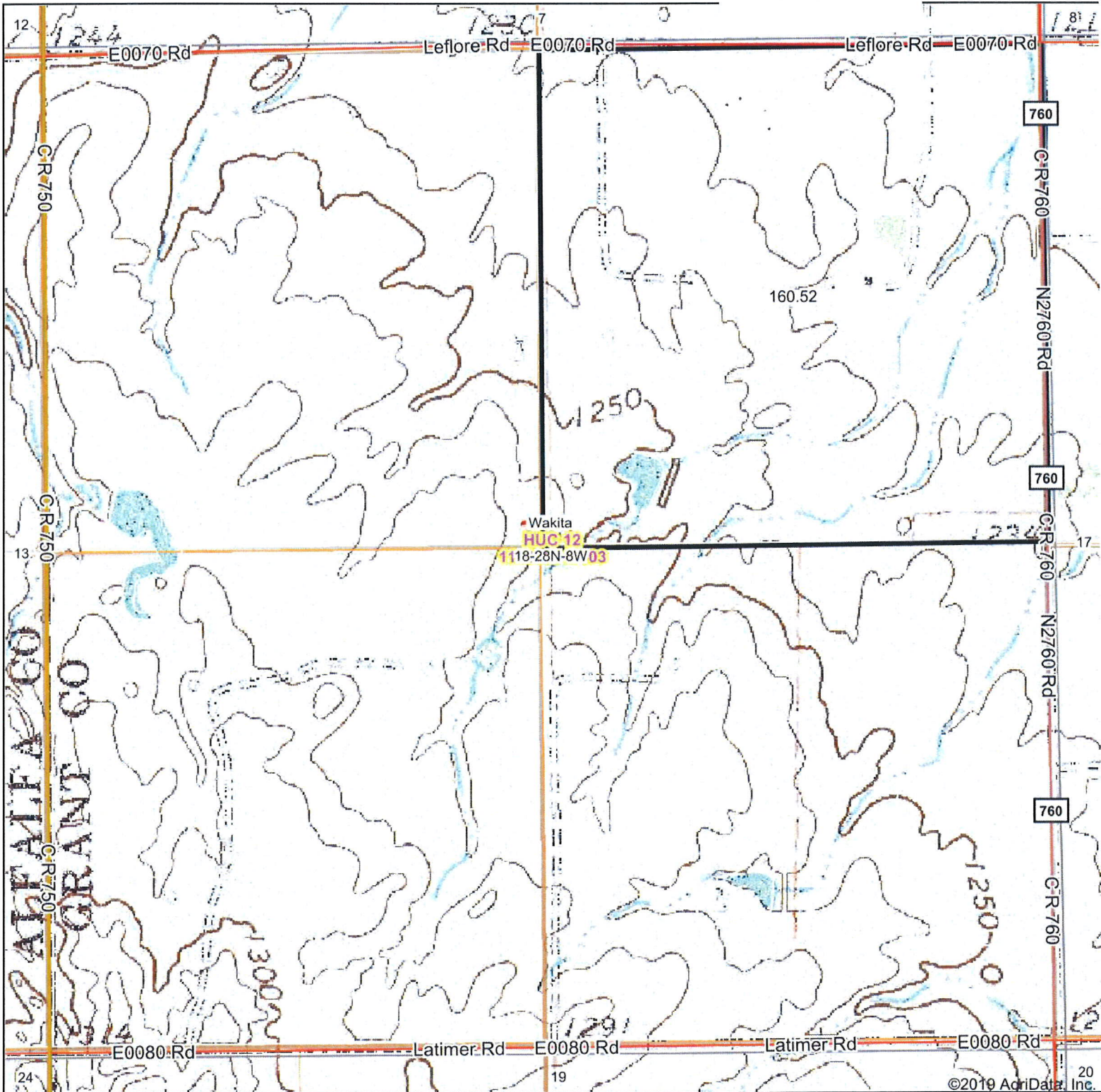
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

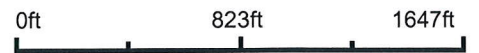
Topography Map

T2



©2019 AgriData, Inc.

map center: 36° 54' 19.9, -98° 6' 2.24

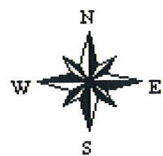


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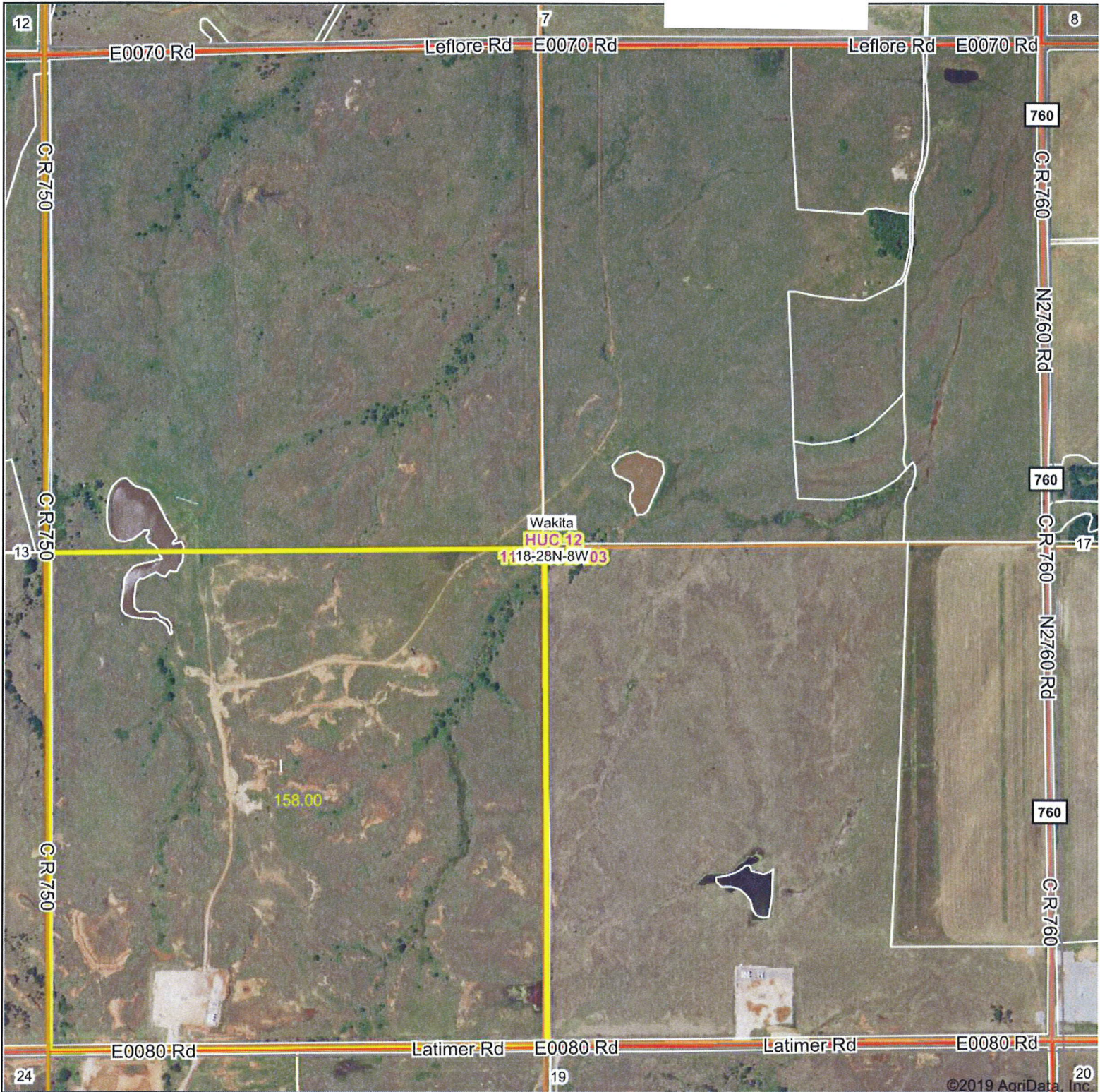


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18-28N-8W
Grant County
Oklahoma



7/11/2019

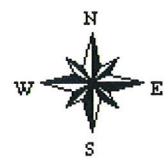


Map Center: 36° 54' 19.9, -98° 6' 2.24



18-28N-8W
Grant County
Oklahoma

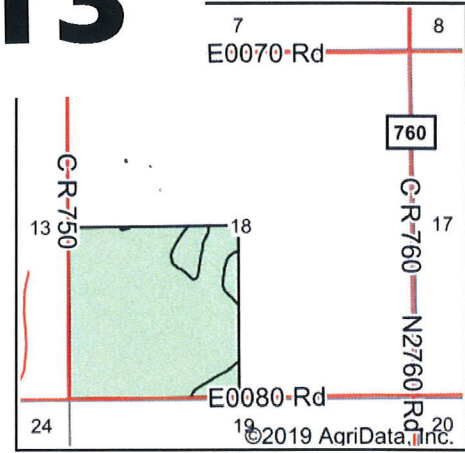
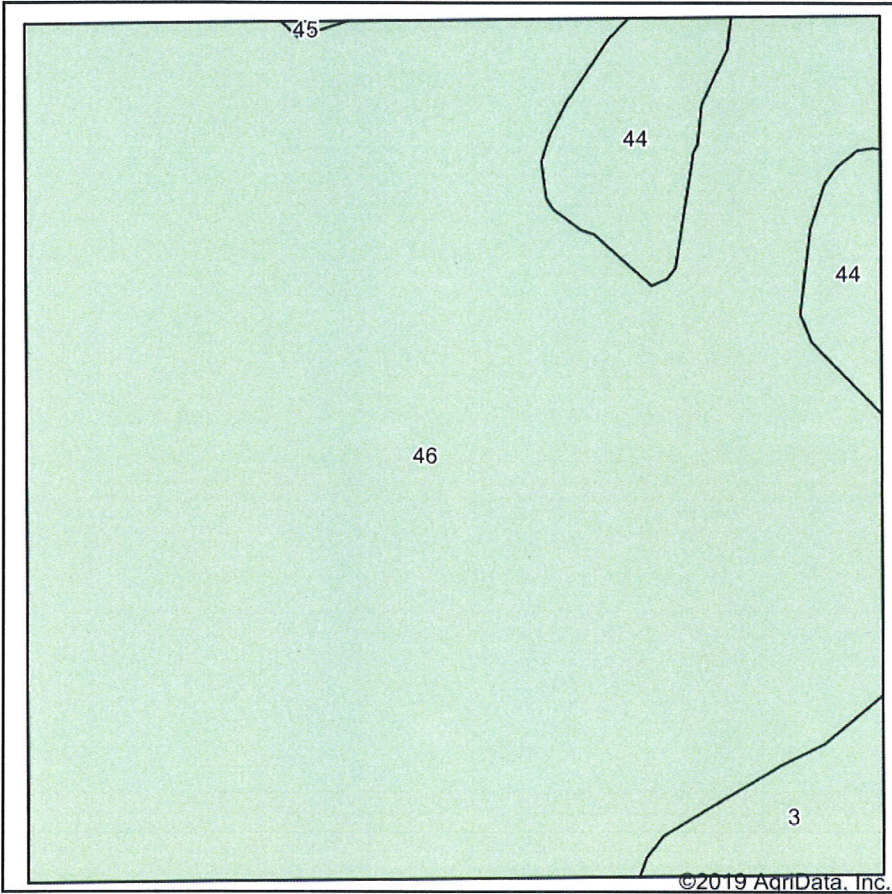
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7/11/2019

Soils Map

T3



State: **Oklahoma**
 County: **Grant**
 Location: **18-28N-8W**
 Township: **Wakita**
 Acres: **158**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

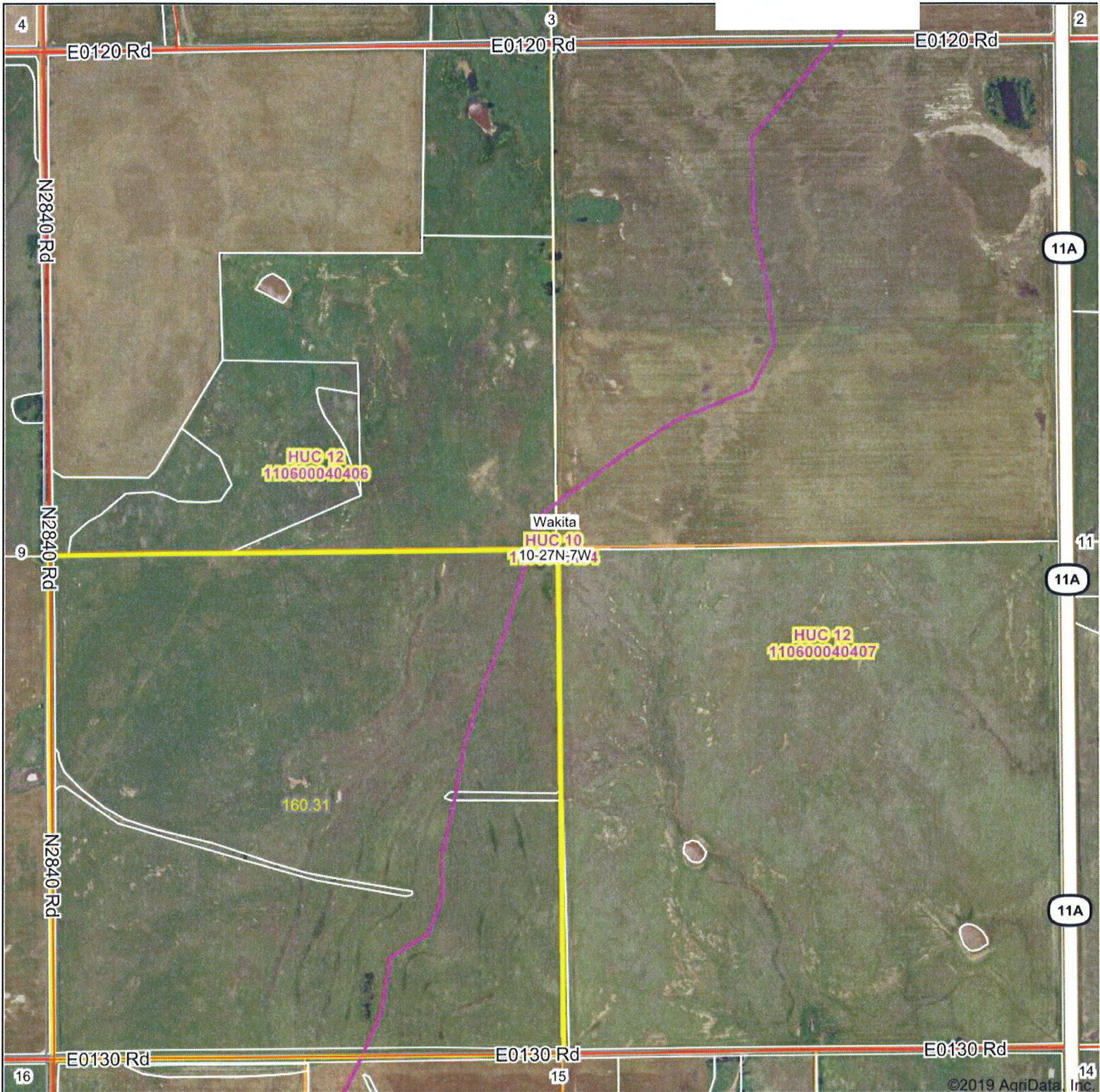
Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Grain sorghum	Weeping lovegrass	Wheat	Cotton lint	Wheat grazeout	Peanuts
46	Ironmound-Nash complex, 3 to 12 percent slopes	142.73	90.3%	Vle	4028	3	3		2		3	20		
44	Ironmound loam, 1 to 3 percent slopes	10.09	6.4%	IVs	3277	3	3		1		20			
3	Devol fine sandy loam, 3 to 5 percent slopes	5.07	3.2%	IIIe	3253	5			30	6	20	225		
45	Ironmound loam, 3 to 5 percent slopes, eroded	0.11	0.1%	IVs	3234	2	2	2	2		12		2	70
Weighted Average					3954.6	3.1	2.9	*-	2.8	0.2	4.6	25.3	*-	*-

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

*c: Using Capabilities Class Dominant Condition Aggregation Method

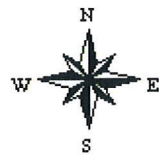
Soils data provided by USDA and NRCS.



Map Center: 36° 49' 56.95, -97° 56' 20.37



10-27N-7W
Grant County
Oklahoma

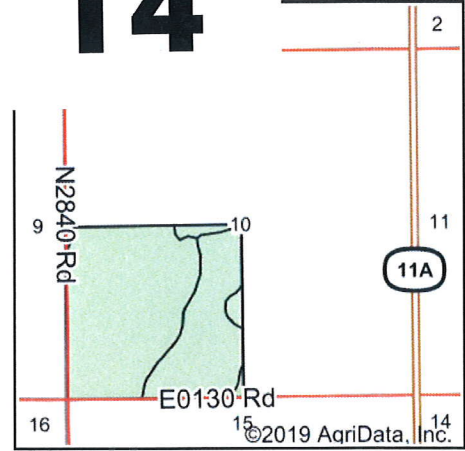
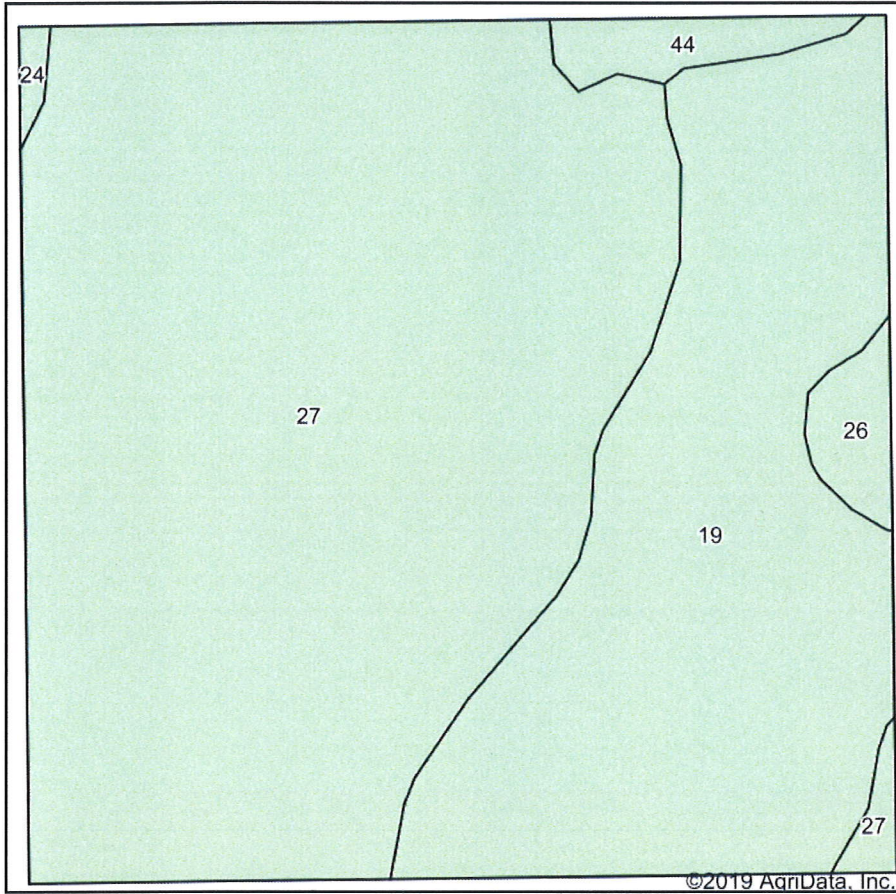


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7/11/2019

Soils Map

T4



State: **Oklahoma**
 County: **Grant**
 Location: **10-27N-7W**
 Township: **Wakita**
 Acres: **160.31**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053. Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Range Production (lbs/acre/yr)	Cotton lint	Grain sorghum	Improved bermudagrass	Introduced bluestem	Weeping lovegrass	Wheat	Small grains grazeout	Caucasian bluestem	Barl
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	101.41	63.3%	2.5ft.	IIIc	4111		28		4	4	26			
19	Grant silt loam, 3 to 5 percent slopes, eroded	52.58	32.8%	> 6.5ft.	IIIe	0	248	30		5	4	5	20	3	5
44	Ironmound loam, 1 to 3 percent slopes	3.08	1.9%	> 6.5ft.	IVs	3277		1		3	3	20			
26	Kingfisher silt loam, 3 to 5 percent slopes, eroded	2.67	1.7%	> 6.5ft.	IIIe	0									
24	Kingfisher silt loam, 1 to 3 percent slopes	0.57	0.4%	> 6.5ft.	IIIe	4662	13	40		5	5	30			
Weighted Average						2680.1	81.4	27.7		4.2	3.9	1.6	23.5	1	1.6

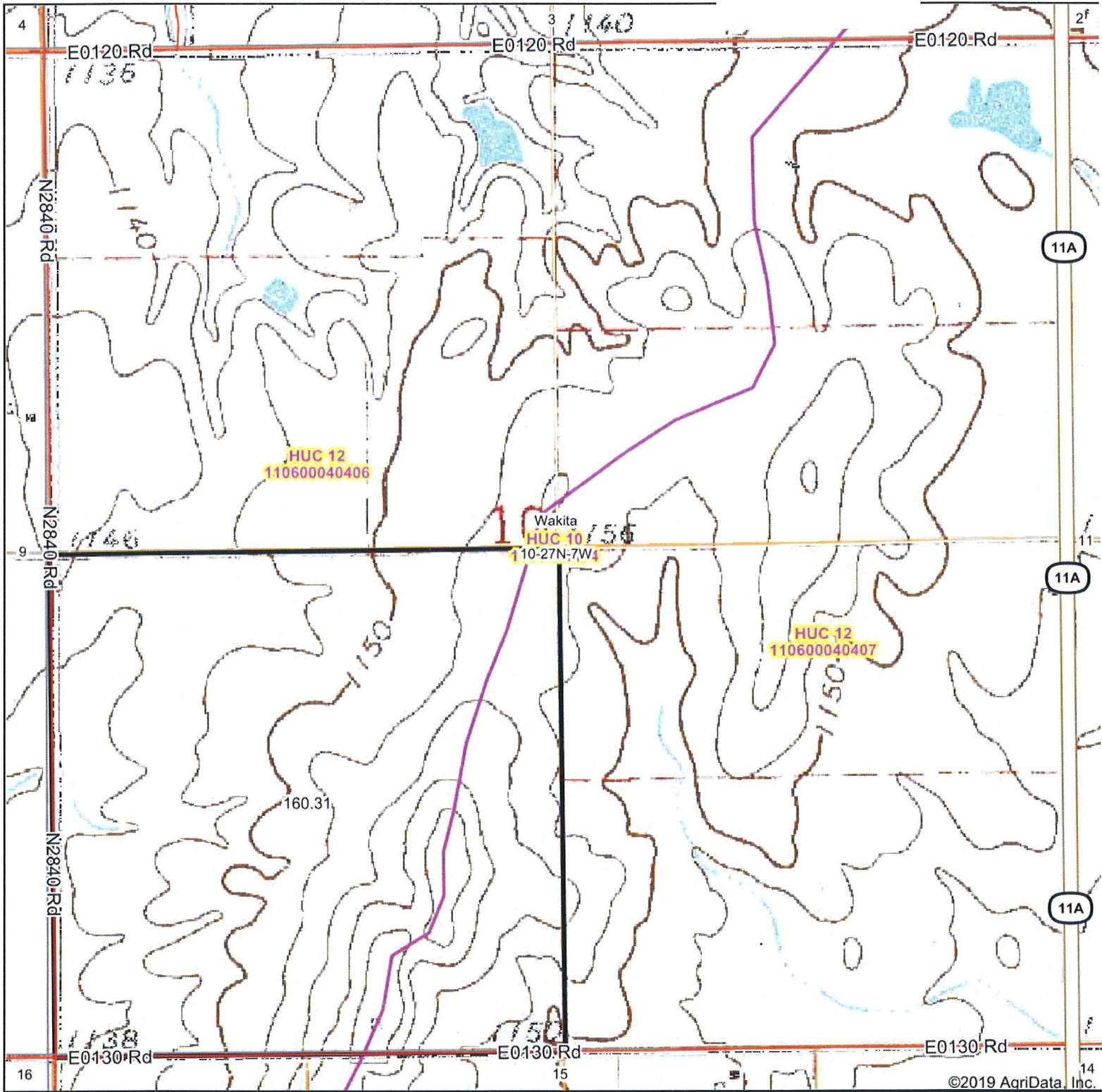
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

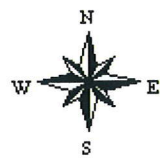
T4



map center: 36° 49' 56.95, -97° 56' 20.37



10-27N-7W
Grant County
Oklahoma

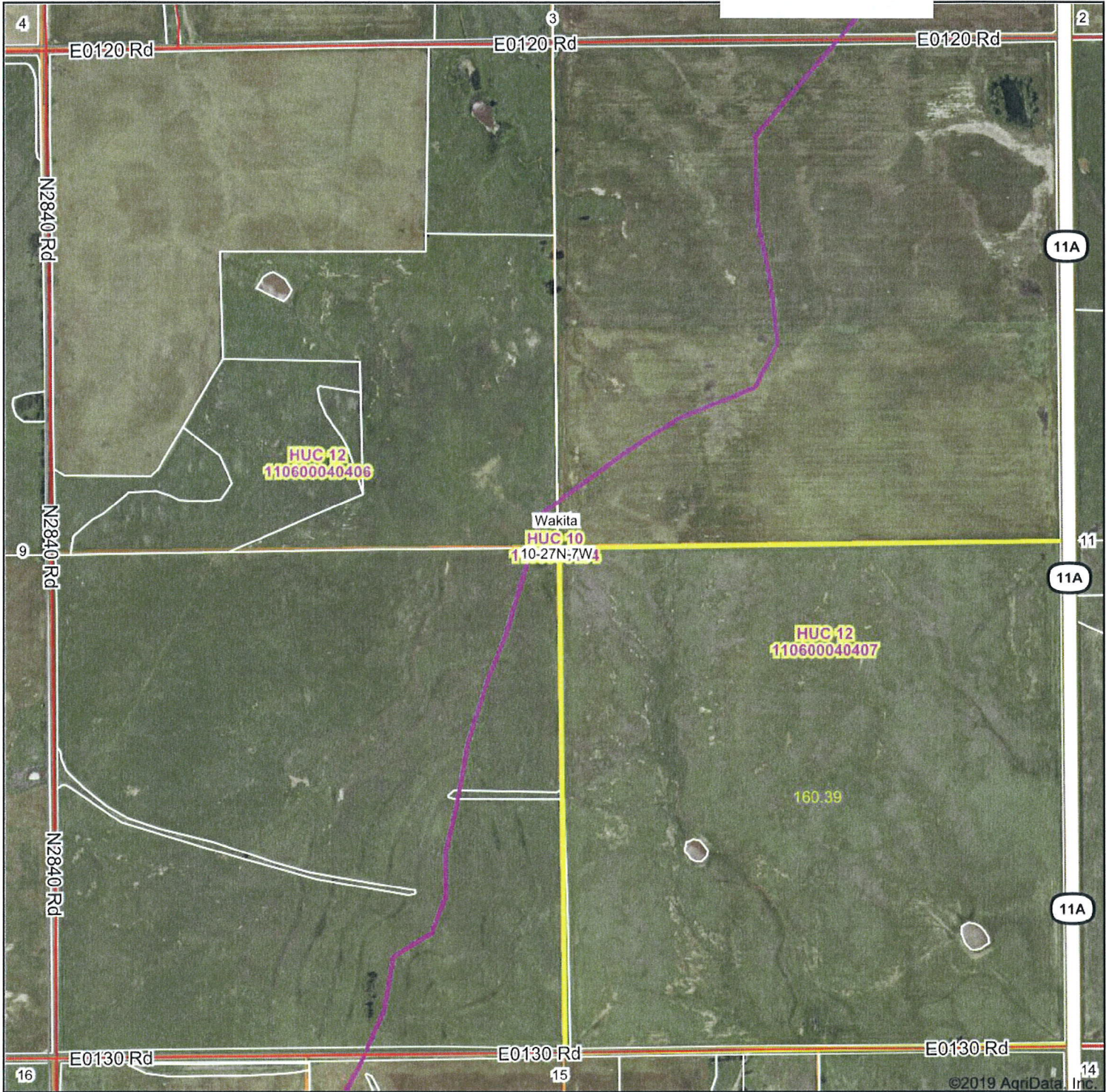


Maps Provided By:
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7/11/2019

Aerial Map

T5

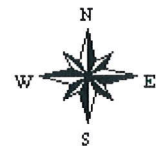


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Map Center: 36° 49' 56.97, -97° 56' 20.37



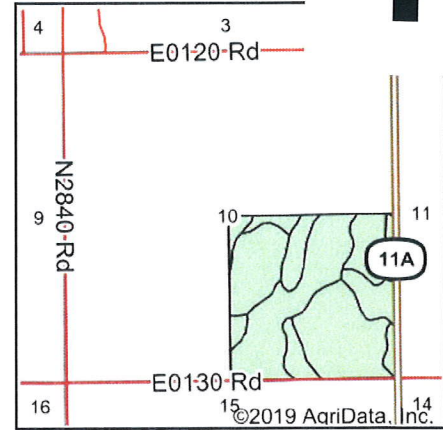
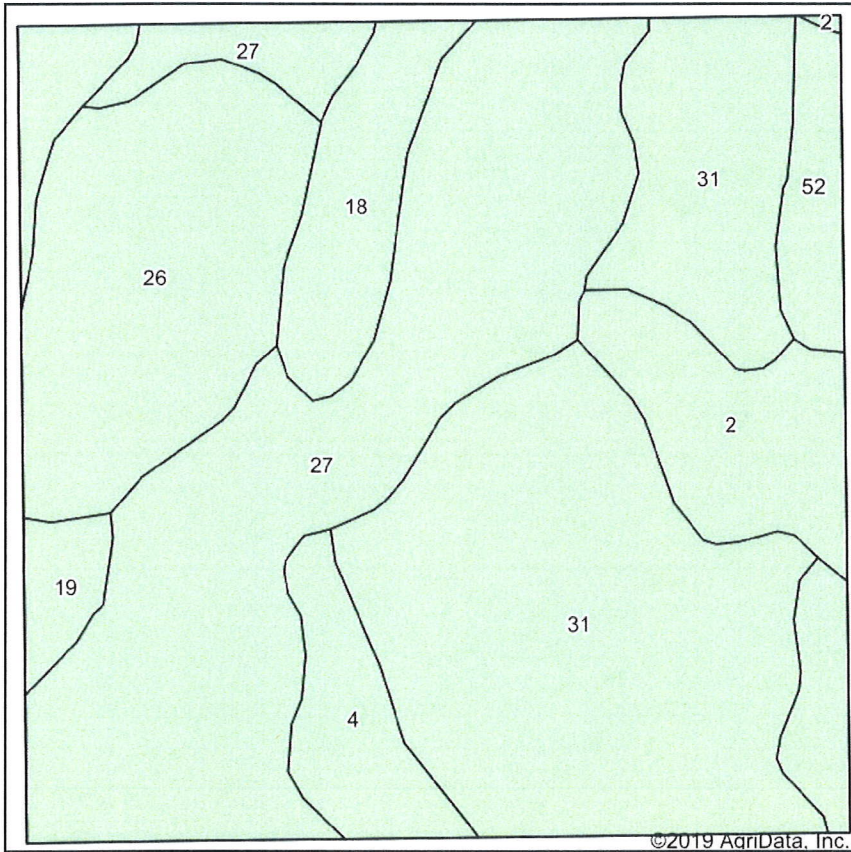
10-27N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T5



State: **Oklahoma**
 County: **Grant**
 Location: **10-27N-7W**
 Township: **Wakita**
 Acres: **160.39**
 Date: **7/11/2019**



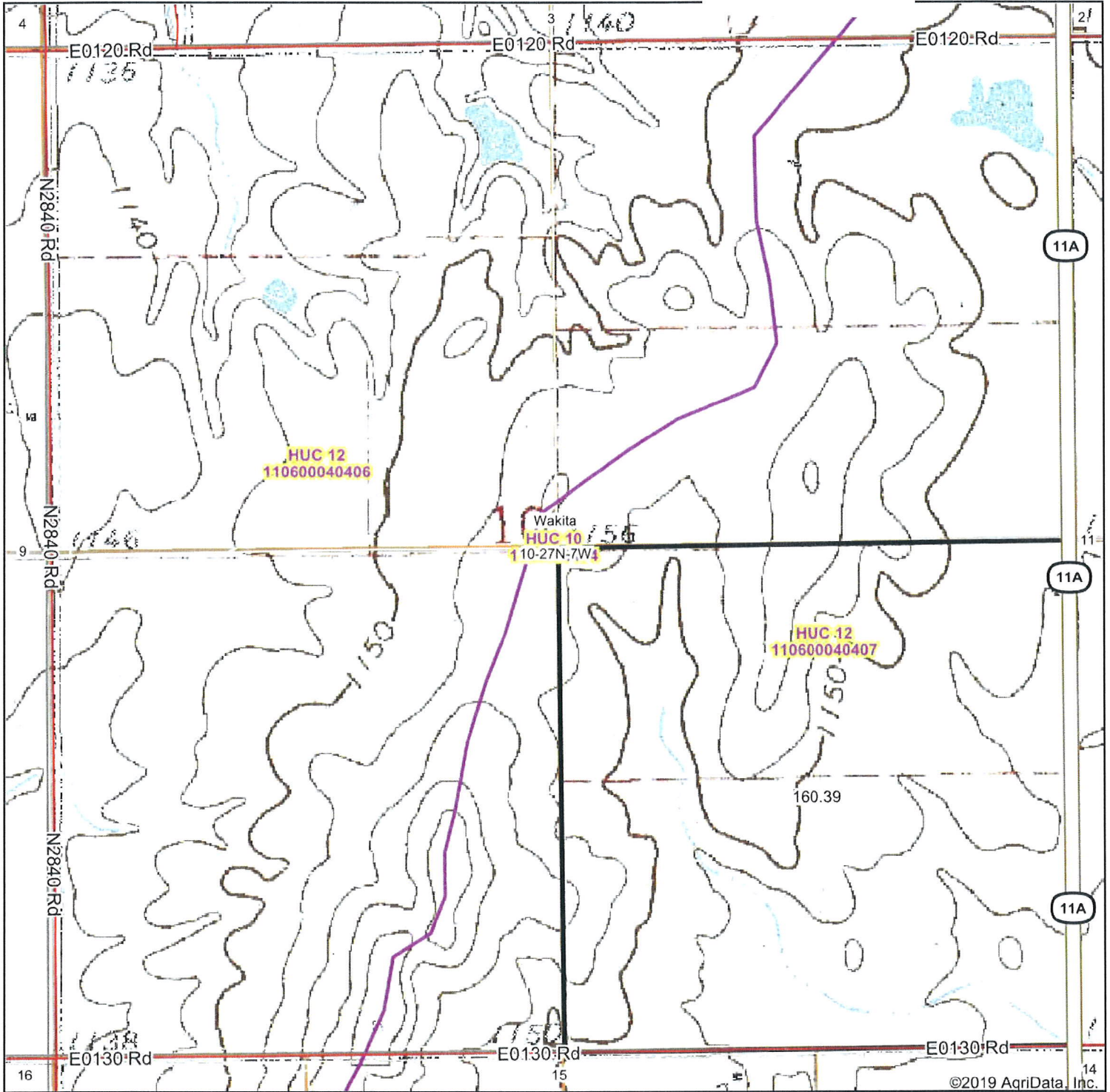
Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Wheat	Introduced bluestem	Alfalfa hay	Tall wheatgrass	Grain sorghum	Grain sorghum Irrigated	Cotton lint	Weep lovegr
31	Kirkland-Pawhuska complex, 0 to 3 percent slopes	51.14	31.9%	> 6.5ft.	Ils	Ils	3673	4	29	4			27		51	
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	47.43	29.6%	2.5ft.	IIIs		4111	4	26	4		2	28			
26	Kingfisher silt loam, 3 to 5 percent slopes, eroded	23.26	14.5%	> 6.5ft.	IIle		0									
2	Devol fine sandy loam, 1 to 3 percent slopes	10.52	6.6%	> 6.5ft.	IIle		2772	5	20				30	5	213	
18	Grant silt loam, 3 to 5 percent slopes	8.29	5.2%	> 6.5ft.	IIle		4510	6	33	6	2	5	48		23	
52	Tabler silt loam, 0 to 1 percent slopes	7.56	4.7%	0.7ft.	IIs		3918	4	35				49		17	
4	Bethany silt loam, 0 to 1 percent slopes	6.59	4.1%	> 6.5ft.	Ile	Ile	4633	5	31	5			44		276	

Topography Map

T5



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map center: 36° 49' 56.97, -97° 56' 20.37

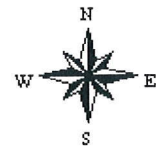


Maps Provided By



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10-27N-7W
Grant County
Oklahoma

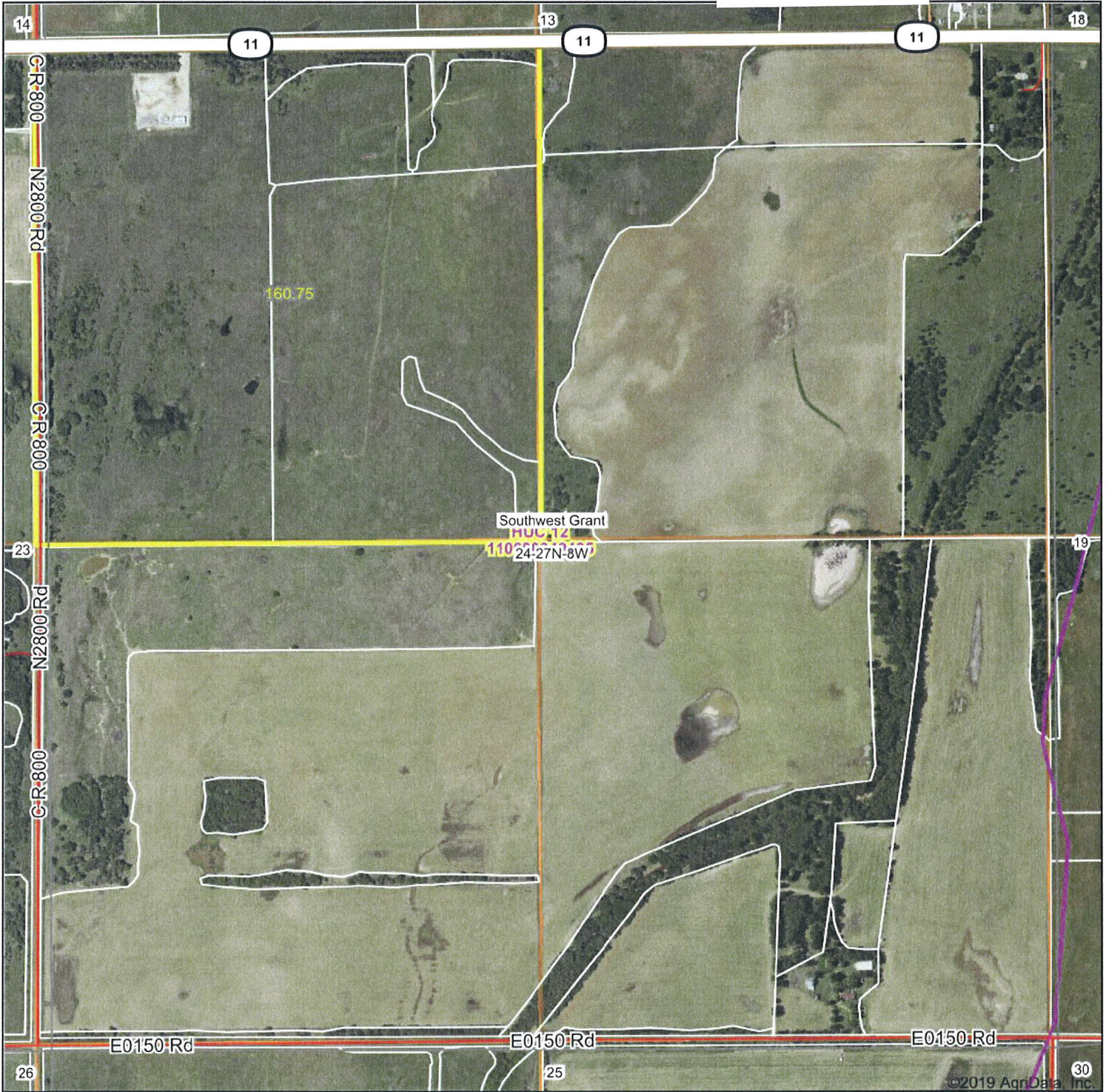


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

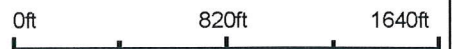
Aerial Map

T6

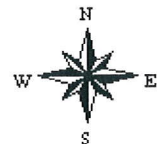


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Map Center: 36° 48' 14.08, -98° 0' 38.17



24-27N-8W
Grant County
Oklahoma



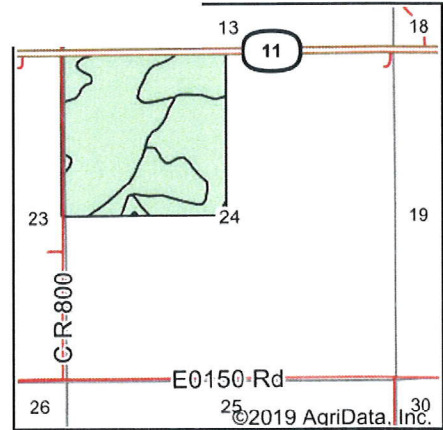
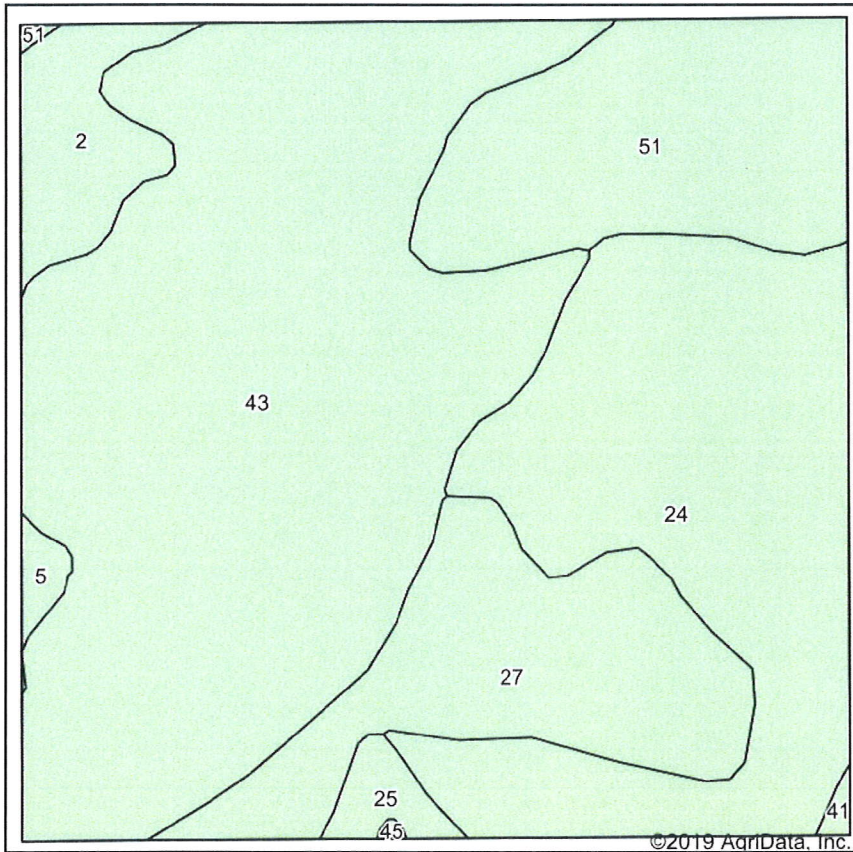
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T6



State: **Oklahoma**
 County: **Grant**
 Location: **24-27N-8W**
 Township: **Southwest Grant**
 Acres: **160.75**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

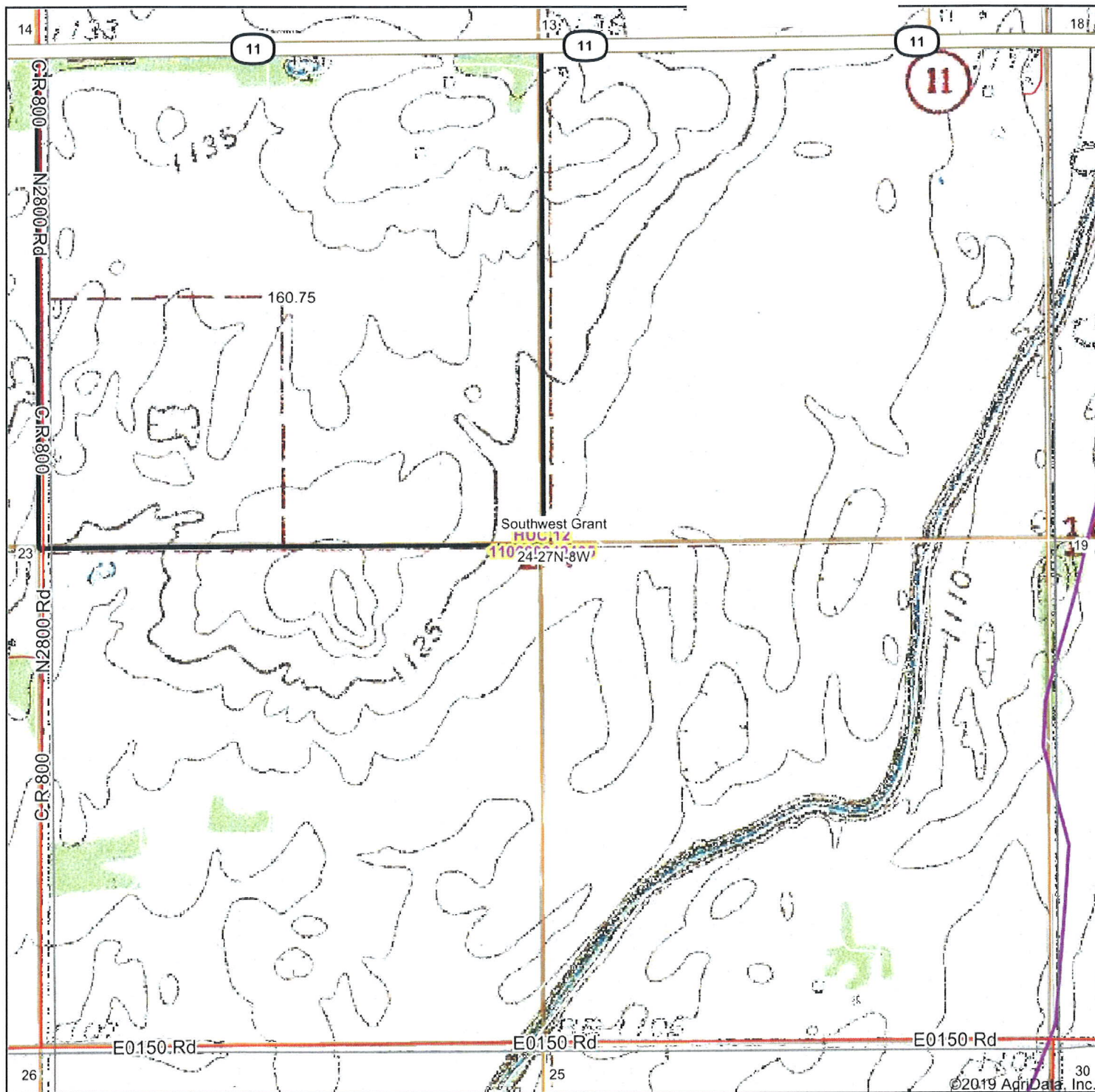
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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Alfalfa hay	Alfalfa hay Irrigated	Grain sorghum	Grain sorghum Irrigated	Weeping lovegrass
43	Eda loamy fine sand, 3 to 5 percent slopes	71.95	44.8%	> 6.5ft.	IIIe	IVe	3021	4			2		33		6
24	Kingfisher silt loam, 1 to 3 percent slopes	38.74	24.1%	> 6.5ft.	IIIe		4662	5	5				40		
51	Lovedale fine sandy loam, 1 to 3 percent slopes	20.51	12.8%	> 6.5ft.	IIe		3250	6	5		3		42		6
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	19.87	12.4%	2.5ft.	IIIs		4111	4	4	2			28		
2	Devol fine sandy loam, 1 to 3 percent slopes	6.36	4.0%	> 6.5ft.	IIIe		2772	5					30	5	6
25	Kingfisher silt loam, 3 to 5 percent slopes	1.93	1.2%	> 6.5ft.	IIIe		4705	5	5				40		
5	Carwile, ponded-Devol complex, 0 to 3 percent slopes	0.97	0.6%	0ft.	Vw		3488	5		1	1	1	7	6	2
41	Port silt loam, 0 to 1 percent slopes, occasionally flooded	0.32	0.2%	> 6.5ft.	IIw		6112		9		5		49		

Topography Map

T6



Maps Provided By



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map center: 36° 48' 14.08, -98° 0' 38.17

24-27N-8W
Grant County
Oklahoma

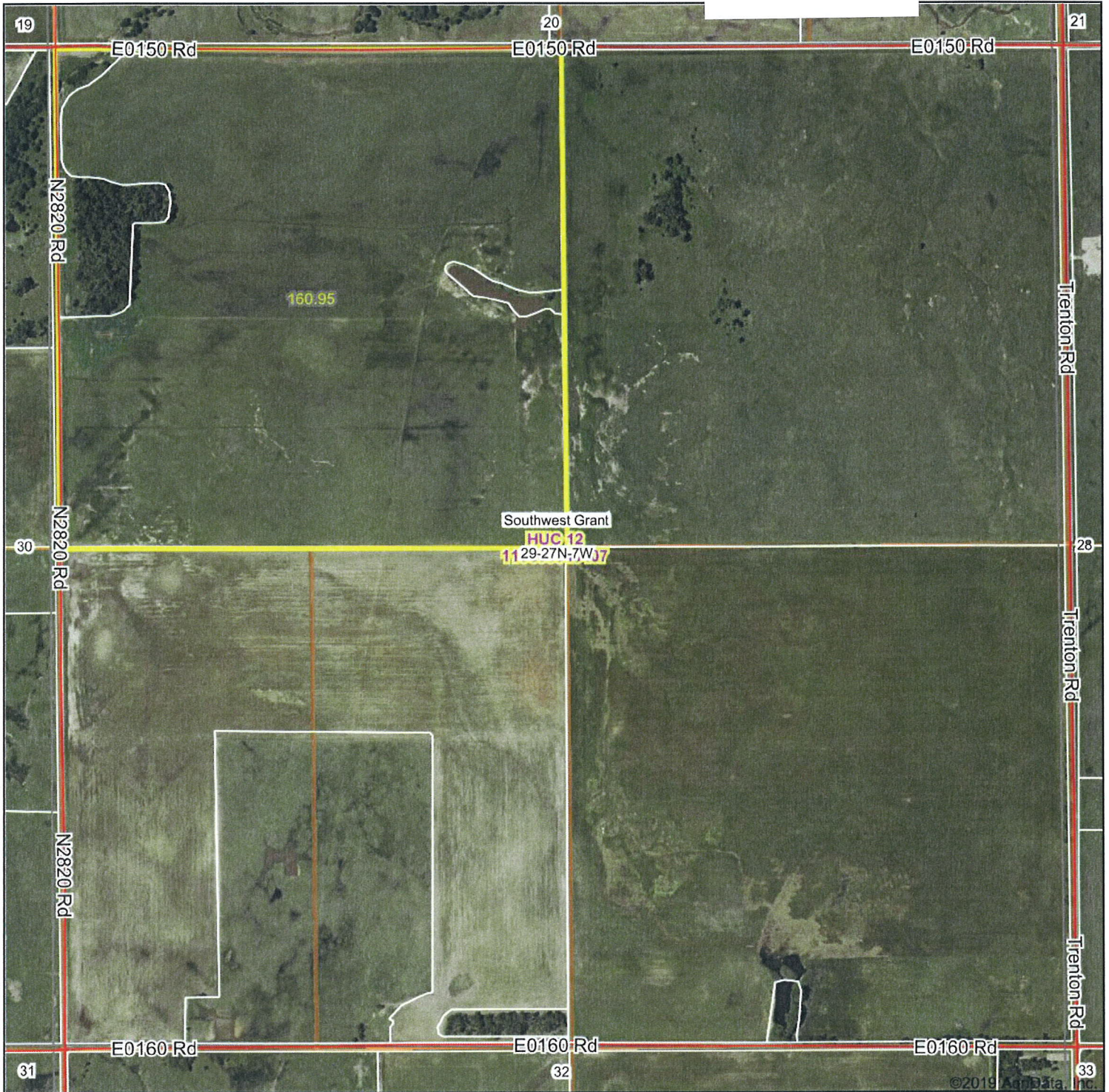


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

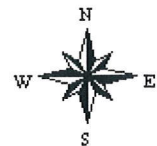
T7



Map Center: 36° 47' 21.15, -97° 58' 30.6



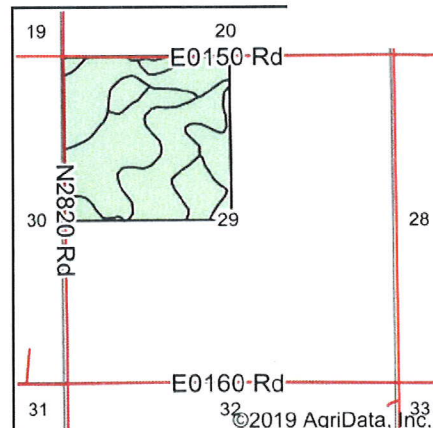
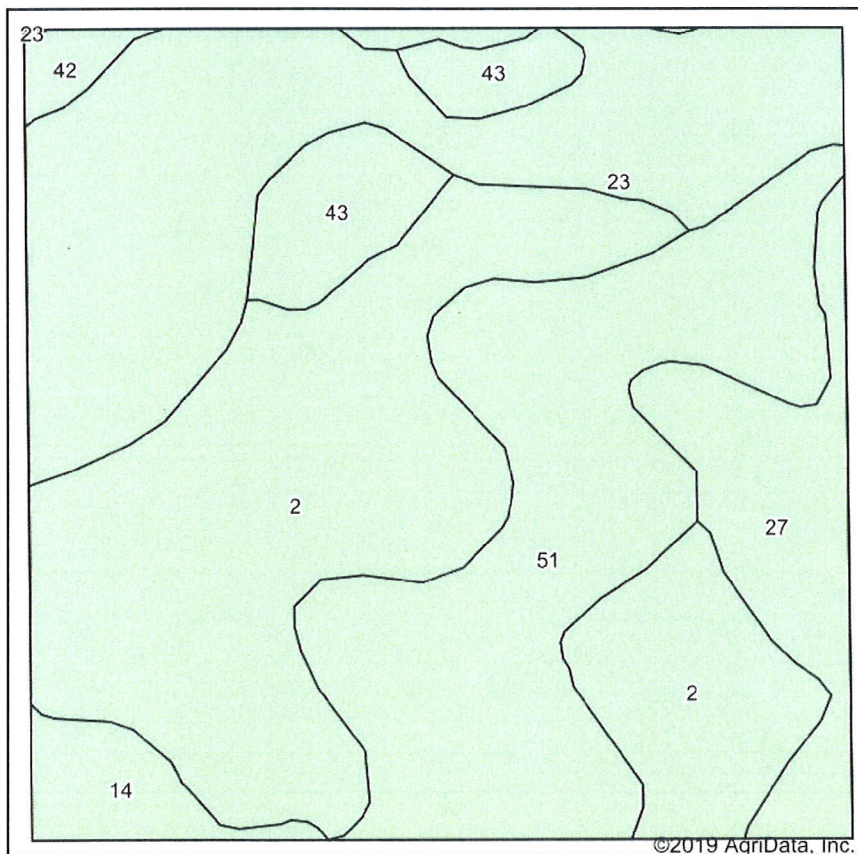
29-27N-7W
Grant County
Oklahoma



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7/11/2019

Soils Map



State: **Oklahoma**
 County: **Grant**
 Location: **29-27N-7W**
 Township: **Southwest Grant**
 Acres: **160.95**
 Date: **7/11/2019**



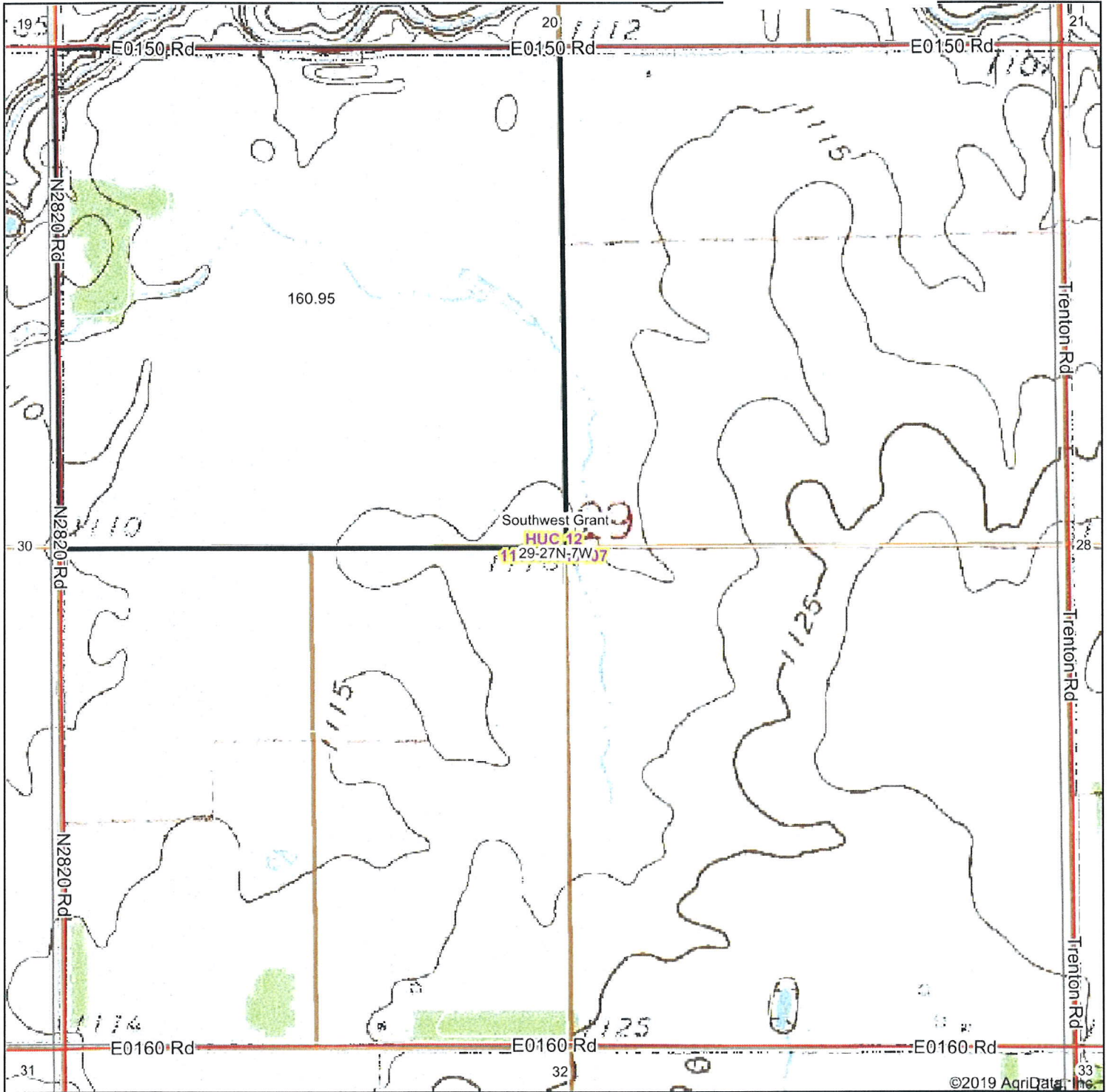
Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Grain sorghum	Grain sorghum Irrigated	Improved bermudagrass	Tall wheatgrass	Wheat	Alfalfa hay	Cotton lint	Peanuts	Peanuts Irrigatec
2	Devol fine sandy loam, 1 to 3 percent slopes	55.70	34.6%	> 6.5ft.	IIIe		2772	30	5		5	20		213		
51	Lovedale fine sandy loam, 1 to 3 percent slopes	38.89	24.2%	> 6.5ft.	Ile		3250	42			6	28	3			
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	37.40	23.2%	> 6.5ft.	Ile		6052	54			8	34	5	60	102	
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	13.37	8.3%	2.5ft.	IIIs		4111	28			4	2	26			
43	Eda loamy fine sand, 3 to 5 percent slopes	8.47	5.3%	> 6.5ft.	IIIe	IVe	3021	33			4	20	2	23		
14	Gracemont loam, 0 to 1 percent slopes, saline, occasionally flooded	4.69	2.9%	1ft.	IVw		5861	30			6	5	22	39	142	

Topography Map

T7



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map center: 36° 47' 21.15, -97° 58' 30.6



29-27N-7W
Grant County
Oklahoma

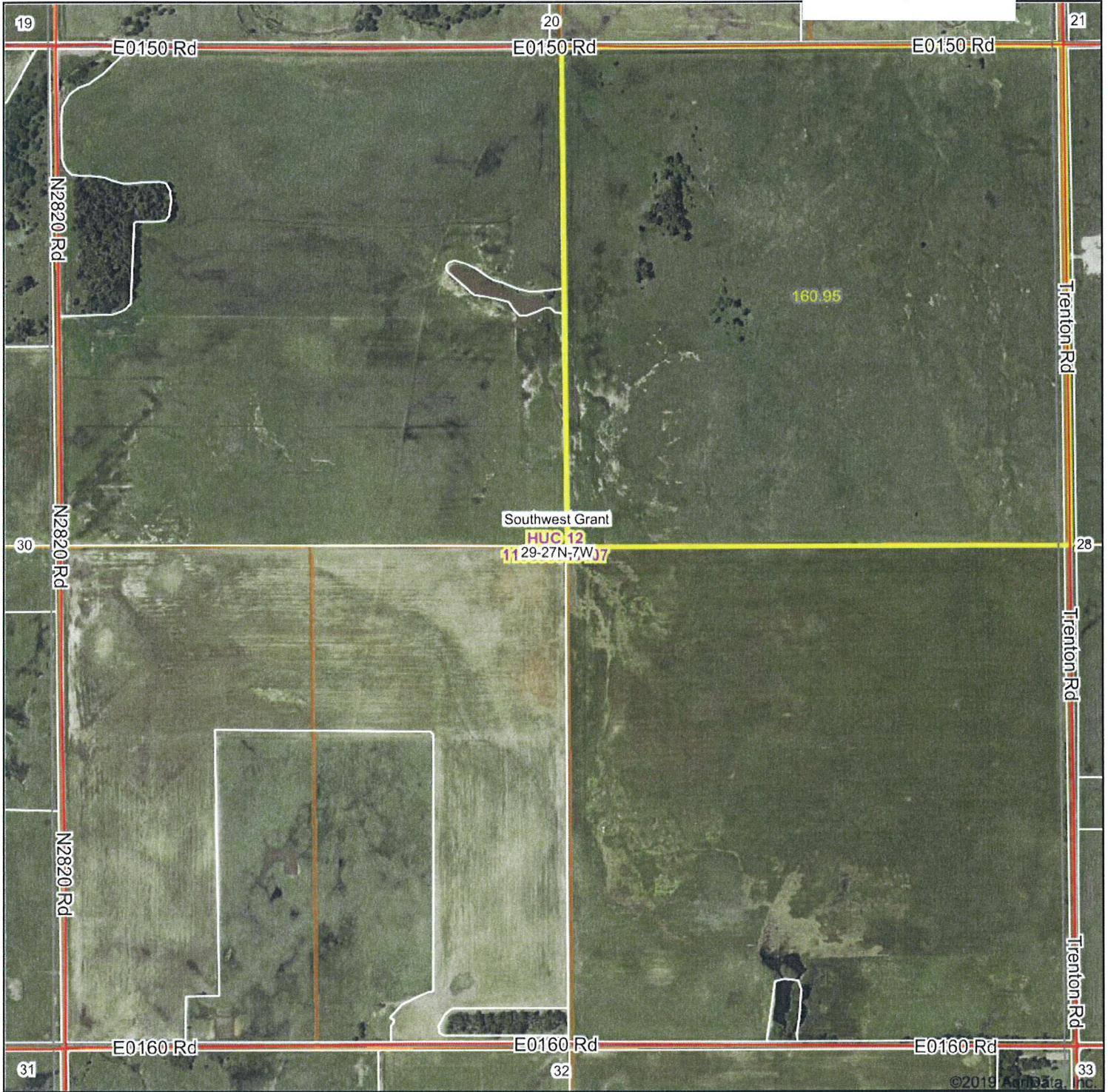


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

T8



©2019 AgriData, Inc.

Map Center: 36° 47' 21.15, -97° 58' 30.6



29-27N-7W
Grant County
Oklahoma



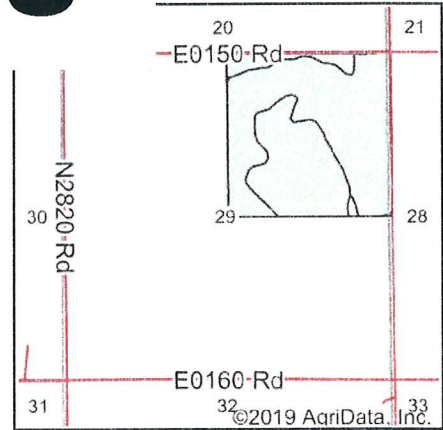
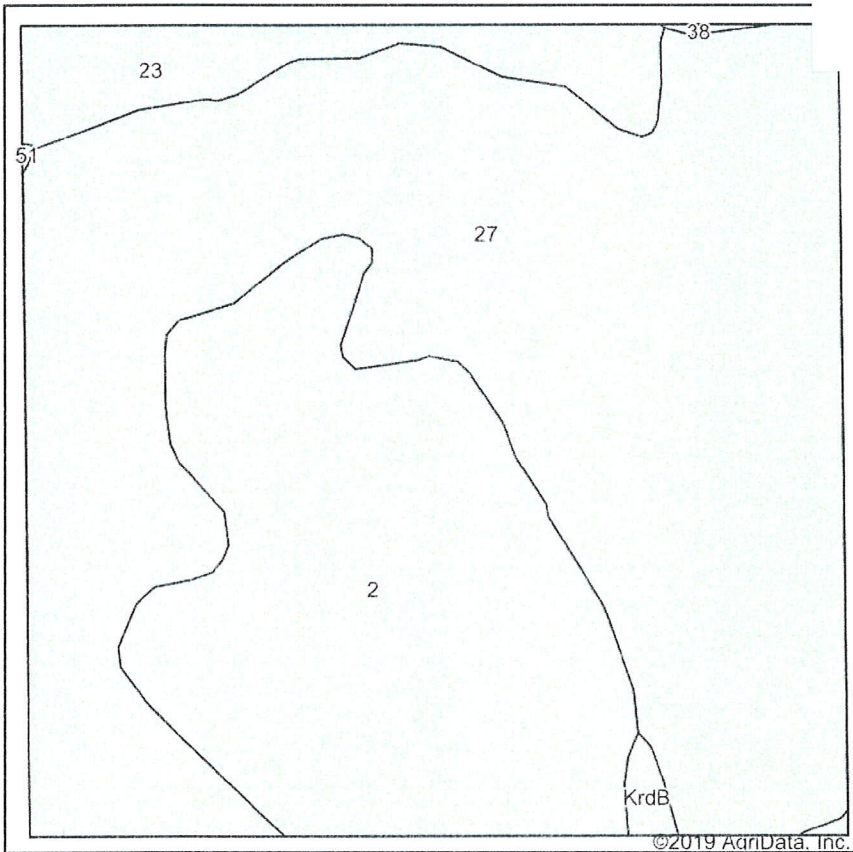
Maps Provided By:
surety
CUSTOMIZED ONLINE MAPPING
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T8



State: **Oklahoma**
 County: **Grant**
 Location: **29-27N-7W**
 Township: **Southwest Grant**
 Acres: **160.95**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Sorghum hay	Wheat grazeout	Oats	Grain sorghum	Grain sorghum Irrigated	Improved bermudagrass	Introduced bluestem	Wheat	Cott lint
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	100.53	62.5%	2.5ft.	IIIc		4111			2	28			4	4	26
2	Devol fine sandy loam, 1 to 3 percent slopes	49.10	30.5%	> 6.5ft.	IIIe		2772				30	5	5			20
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	10.15	6.3%	> 6.5ft.	IIe		6052				54			8		34
KrdB	Kirkland silt loam, 1 to 3 percent slopes	1.01	0.6%	> 6.5ft.	IIc	IIc	3926	5	4	32	34			4	5	33
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	0.16	0.1%	> 6.5ft.	VIc		3948				8			3	3	8
Weighted Average							3823.6	*-	*-	1.5	30.3	1.5	4.6	2.5	24.7	6!

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

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

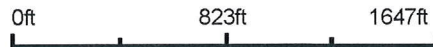
Topography Map

T8



©2019 AgriData, Inc

map center: 36° 47' 21.15, -97° 58' 30.6



Maps Provided By



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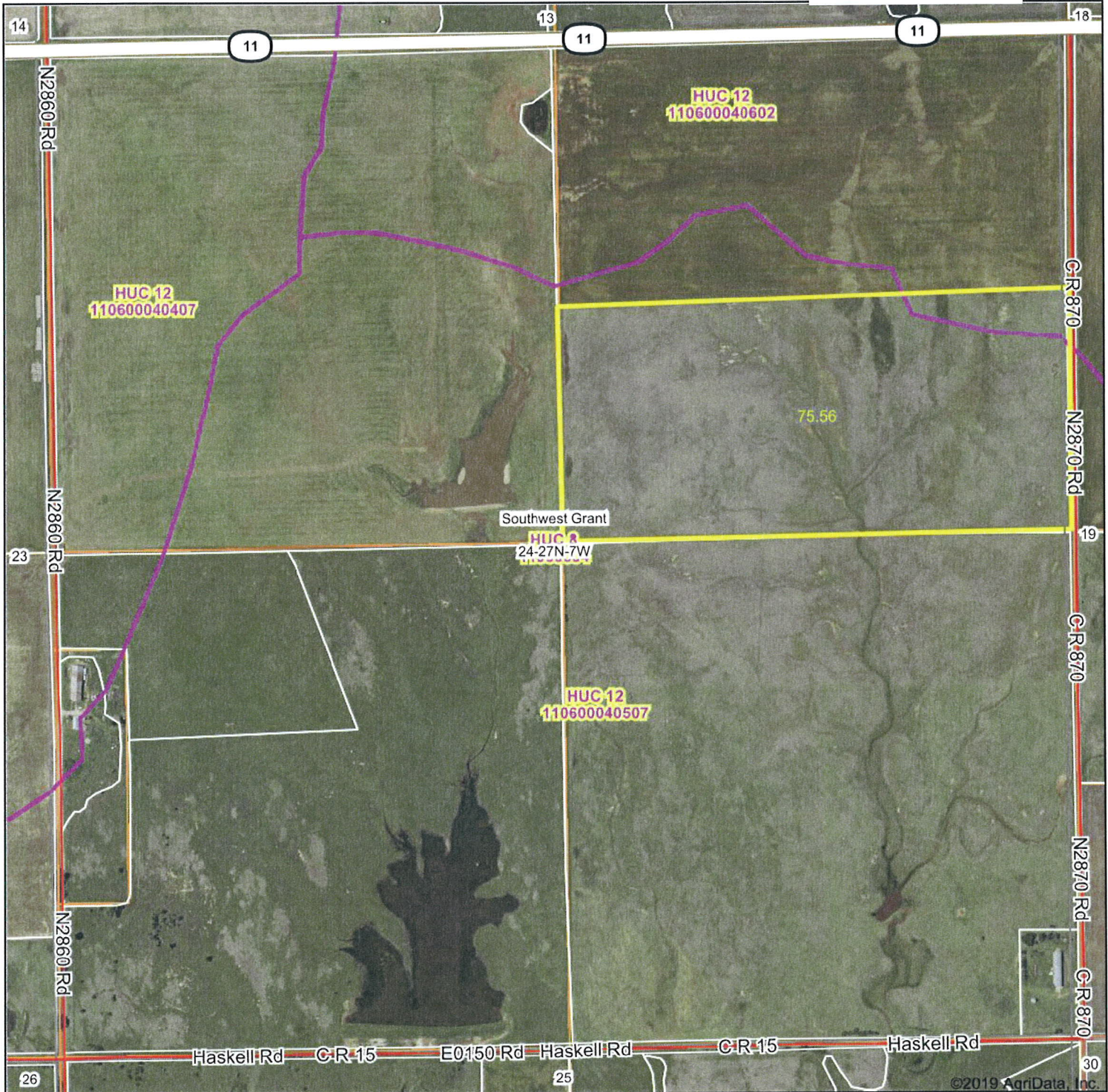
29-27N-7W
Grant County
Oklahoma



7/11/2019

Aerial Map

T9

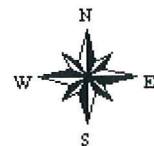


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Map Center: 36° 48' 12.64, -97° 54' 10.8



24-27N-7W
Grant County
Oklahoma



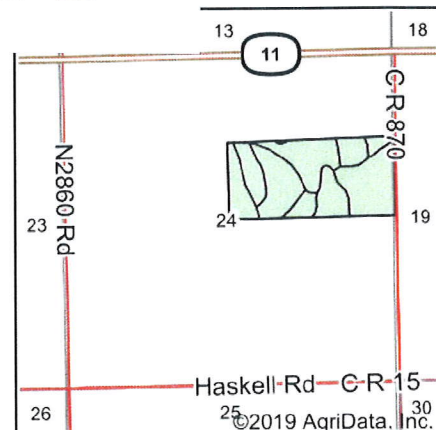
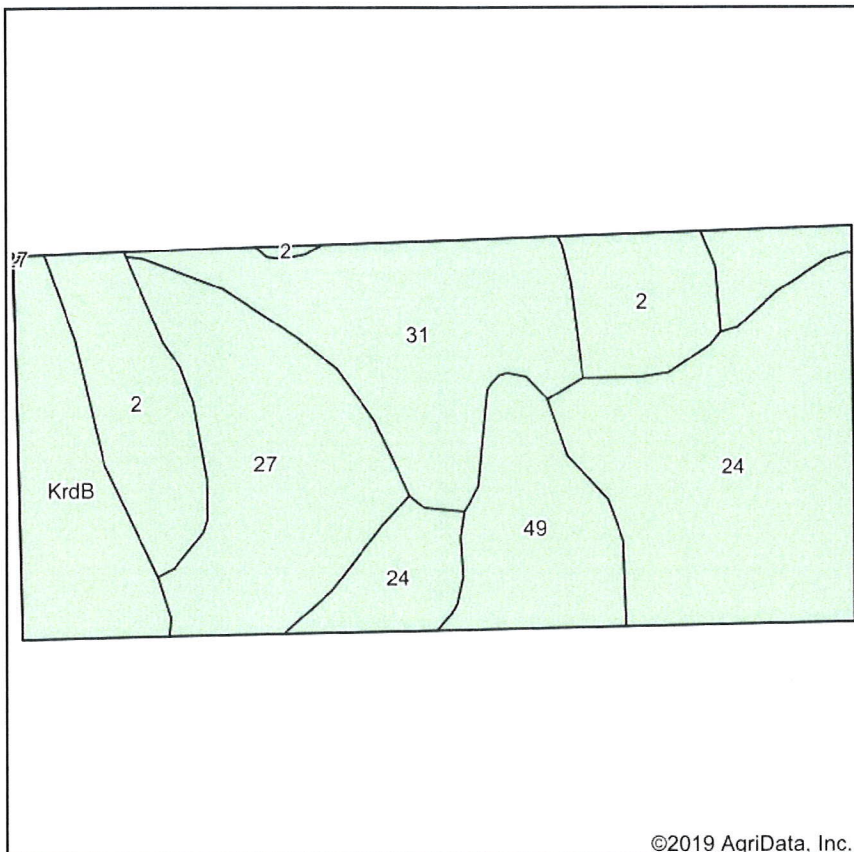
7/11/2019

Maps Provided By
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Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T9



State: **Oklahoma**
 County: **Grant**
 Location: **24-27N-7W**
 Township: **Southwest Grant**
 Acres: **75.56**
 Date: **7/11/2019**



Maps Provided By



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

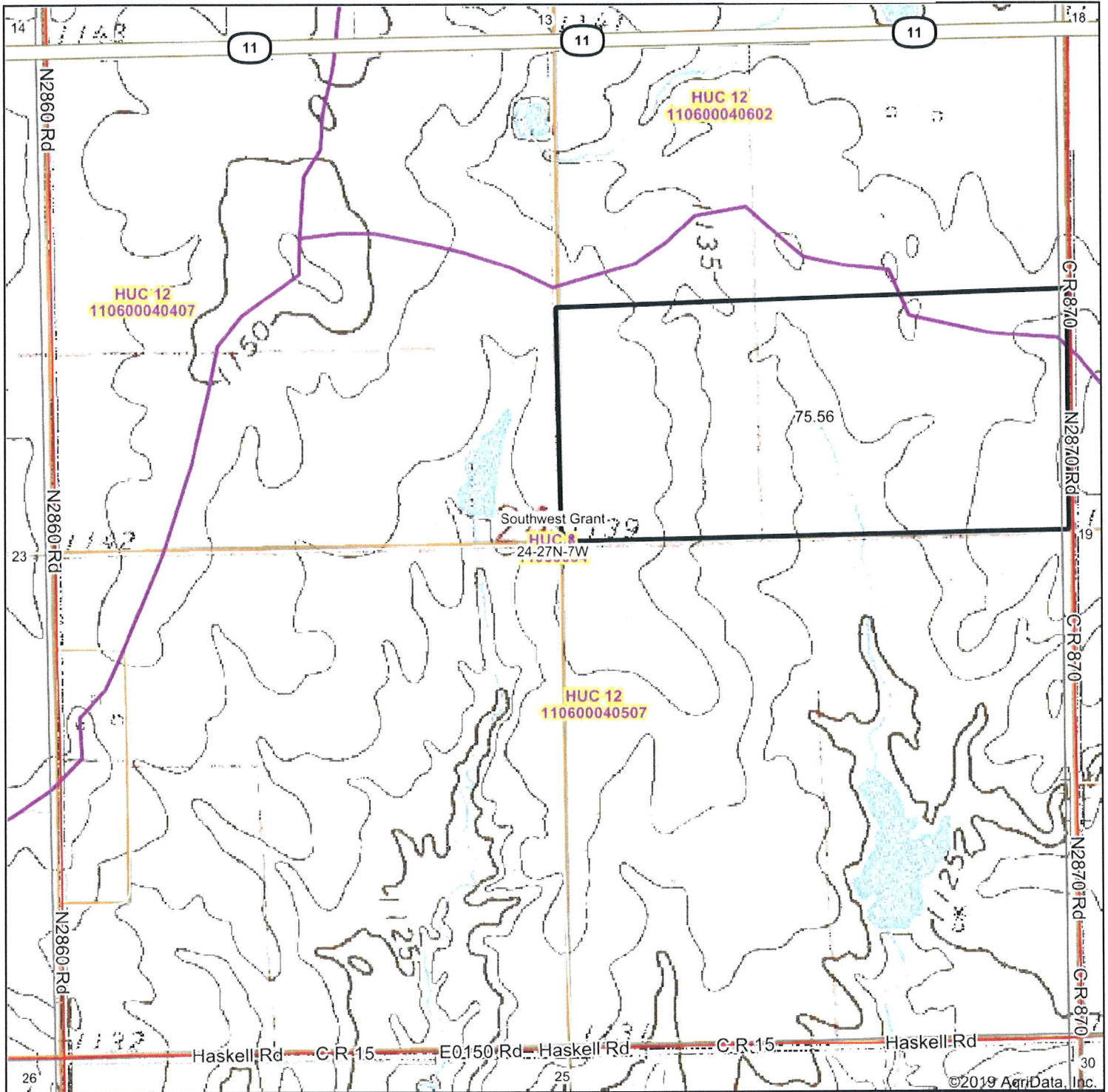
Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Sorghum hay	Wheat grazeout	Oats	Grain sorghum	Grain sorghum Irrigated	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint
24	Kingfisher silt loam, 1 to 3 percent slopes	20.92	27.7%	> 6.5ft.	IIIe		4662			2	40		5	5	30	13
31	Kirkland-Pawhuska complex, 0 to 3 percent slopes	15.15	20.1%	> 6.5ft.	IIIs	IIIs	3673	3	3	23	27		4	4	29	51
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	13.24	17.5%	2.5ft.	IIIIs		4111			2	28		4	4	26	
2	Devol fine sandy loam, 1 to 3 percent slopes	11.00	14.6%	> 6.5ft.	IIIe		2772				30	5	5		20	213
KrdB	Kirkland silt loam, 1 to 3 percent slopes	7.98	10.6%	> 6.5ft.	IIIs	IIIs	3926	5	4	32	34		4	5	33	50
49	Renfrow silty clay loam, 3 to 5 percent slopes, eroded	7.27	9.6%	> 6.5ft.	IVe		0						3			
Weighted Average							3565.7	1.1	1	8.9	29.4	0.7	4.3	3.4	25.1	50.1

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

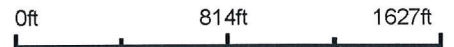
*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map



map center: 36° 48' 12.64, -97° 54' 10.8

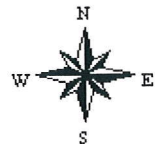


Maps Provided By:



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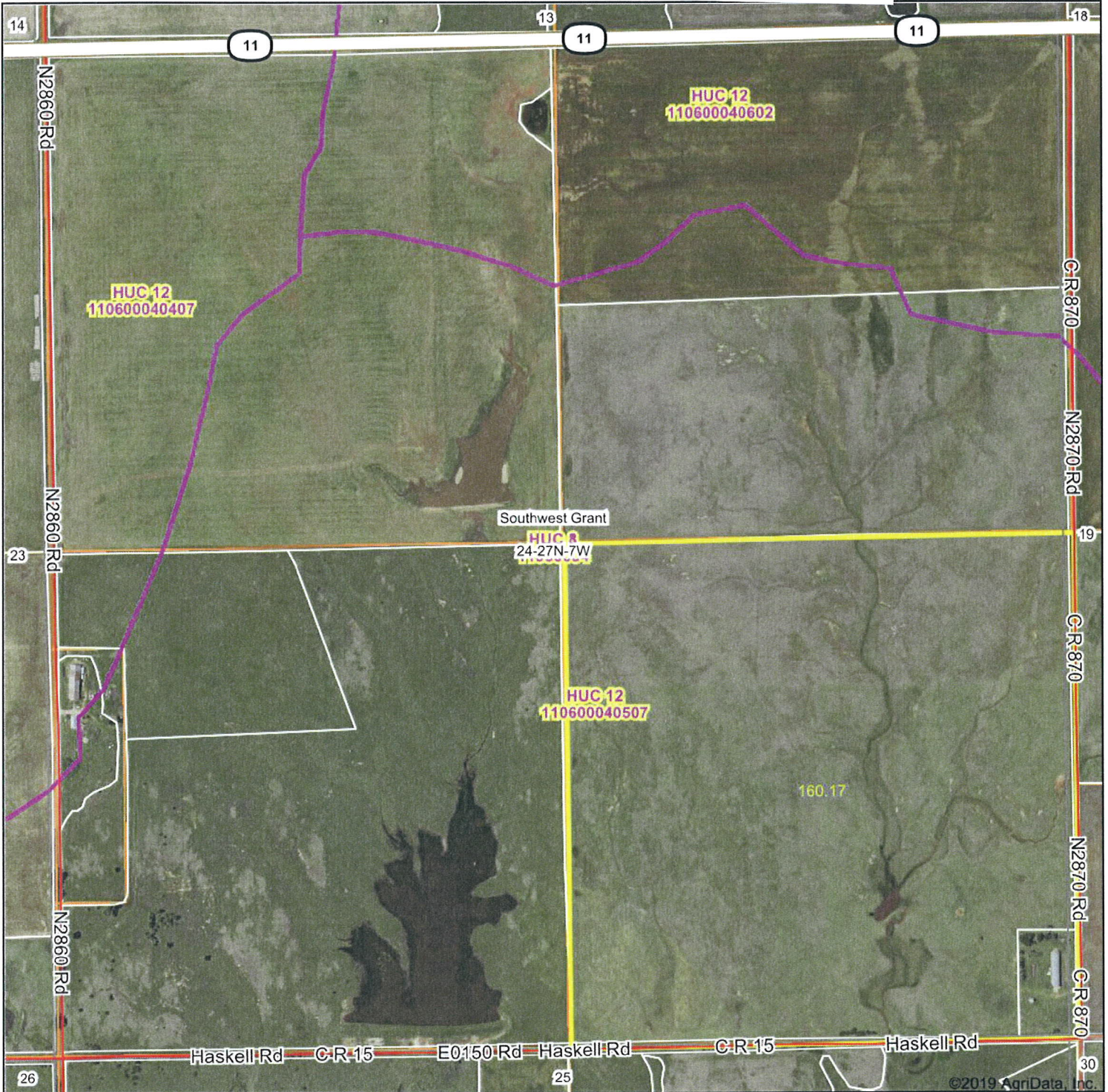
24-27N-7W
Grant County
Oklahoma



7/11/2019

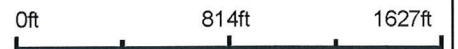
Aerial Map

T10

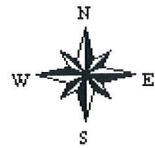


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Map Center: 36° 48' 12.64, -97° 54' 10.8



24-27N-7W
Grant County
Oklahoma



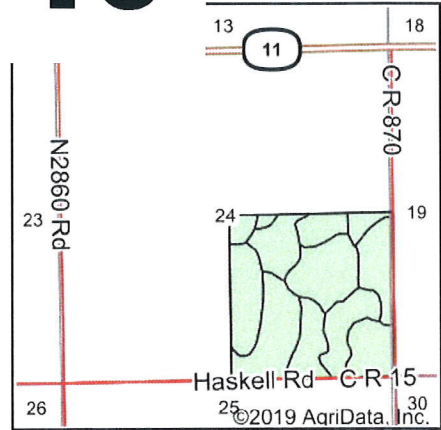
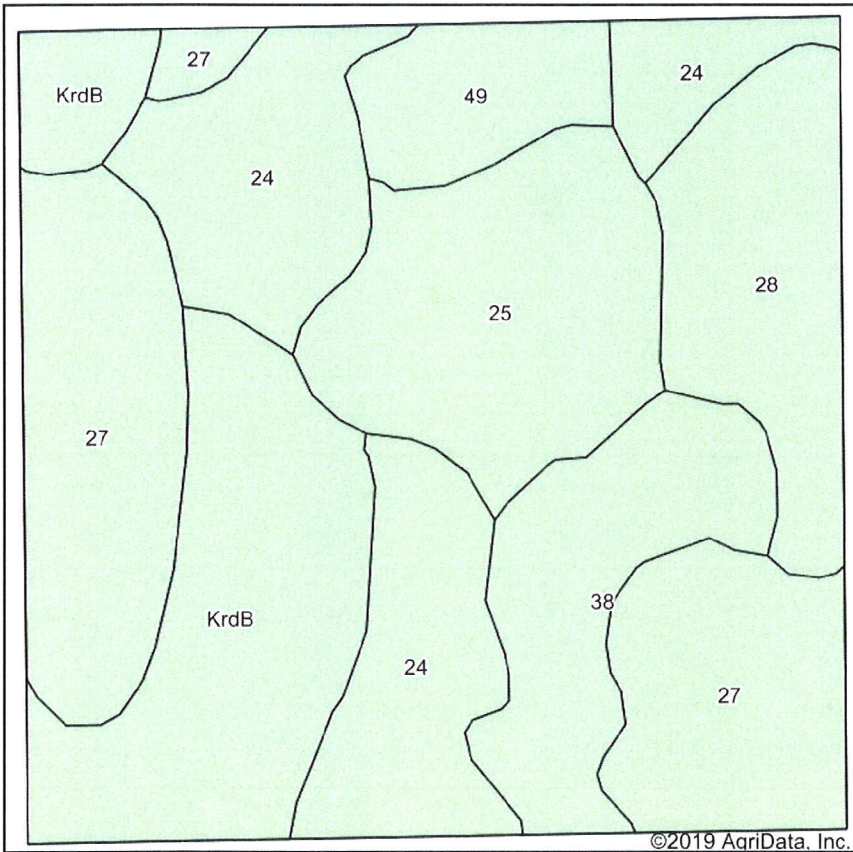
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T10



State: **Oklahoma**
 County: **Grant**
 Location: **24-27N-7W**
 Township: **Southwest Grant**
 Acres: **160.17**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

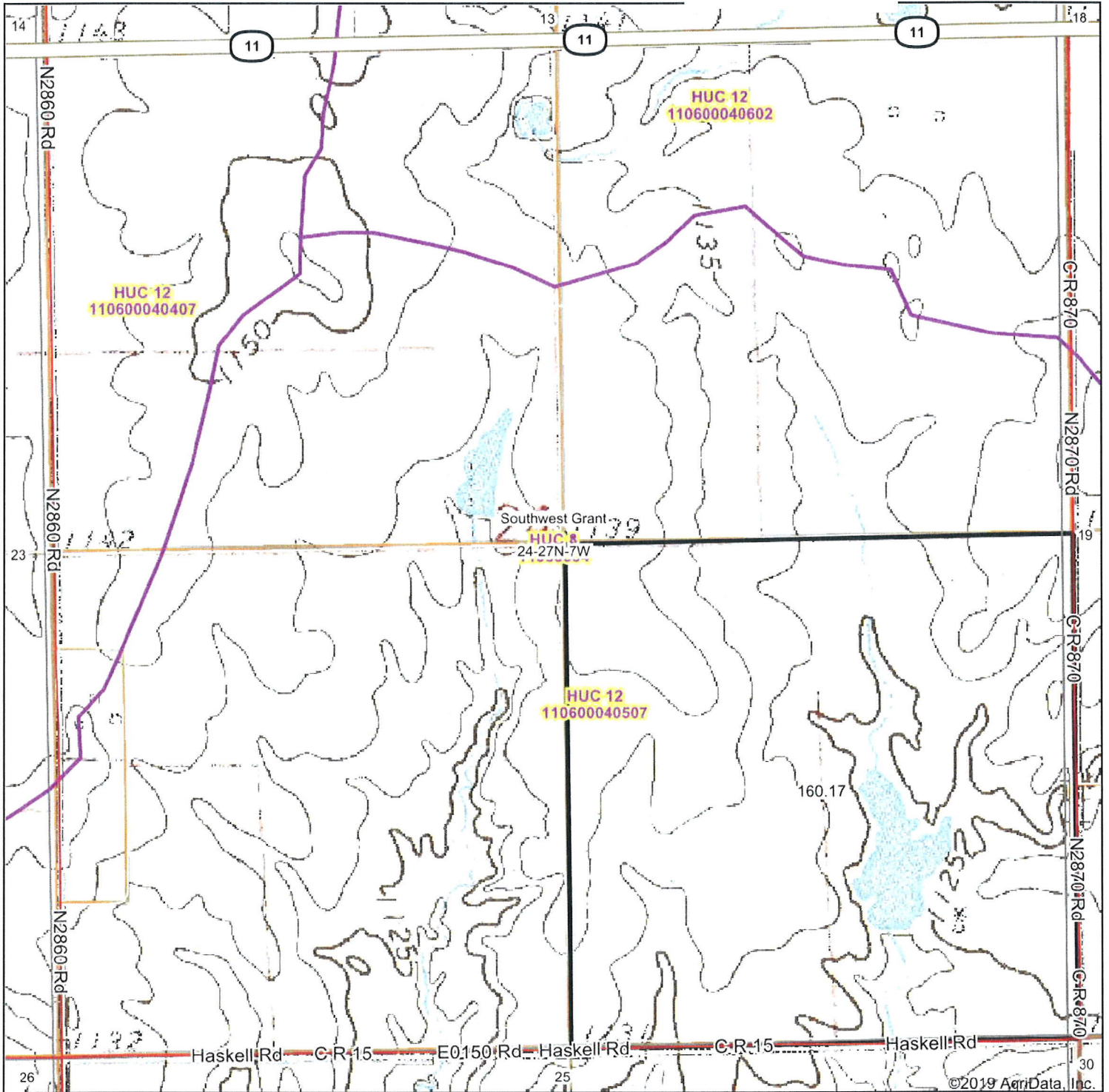
Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Sorghum hay	Wheat grazeout	Oats	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	35.43	22.1%	2.5ft.	III s		4111			2	28	4	4	26		
24	Kingfisher silt loam, 1 to 3 percent slopes	31.62	19.7%	> 6.5ft.	III e		4662			2	40	5	5	30	13	2
KrdB	Kirkland silt loam, 1 to 3 percent slopes	29.12	18.2%	> 6.5ft.	II s	II s	3926	5	4	32	34	4	5	33	50	2
25	Kingfisher silt loam, 3 to 5 percent slopes	22.78	14.2%	> 6.5ft.	III e		4705				40	5	5	30	8	1
28	Kingfisher-Wakita complex, 3 to 5 percent slopes, eroded	16.92	10.6%	2.5ft.	IV e		0				21	4	3	21		
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	16.10	10.1%	> 6.5ft.	VI s		3948				8	3	3	8	23	5
49	Renfrow silty clay loam, 3 to 5 percent slopes, eroded	8.20	5.1%	> 6.5ft.	IV e		0					3				
Weighted Average							3609.5	0.9	0.7	6.7	29	4.2	4.1	25	15.1	1.4

*n: The aggregation method is "Weighted Average using major components"
 *c: Using Capabilities Class Dominant Condition Aggregation Method
 Soils data provided by USDA and NRCS.

Topography Map

T10

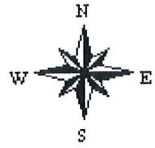


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map center: 36° 48' 12.64, -97° 54' 10.8



24-27N-7W
Grant County
Oklahoma

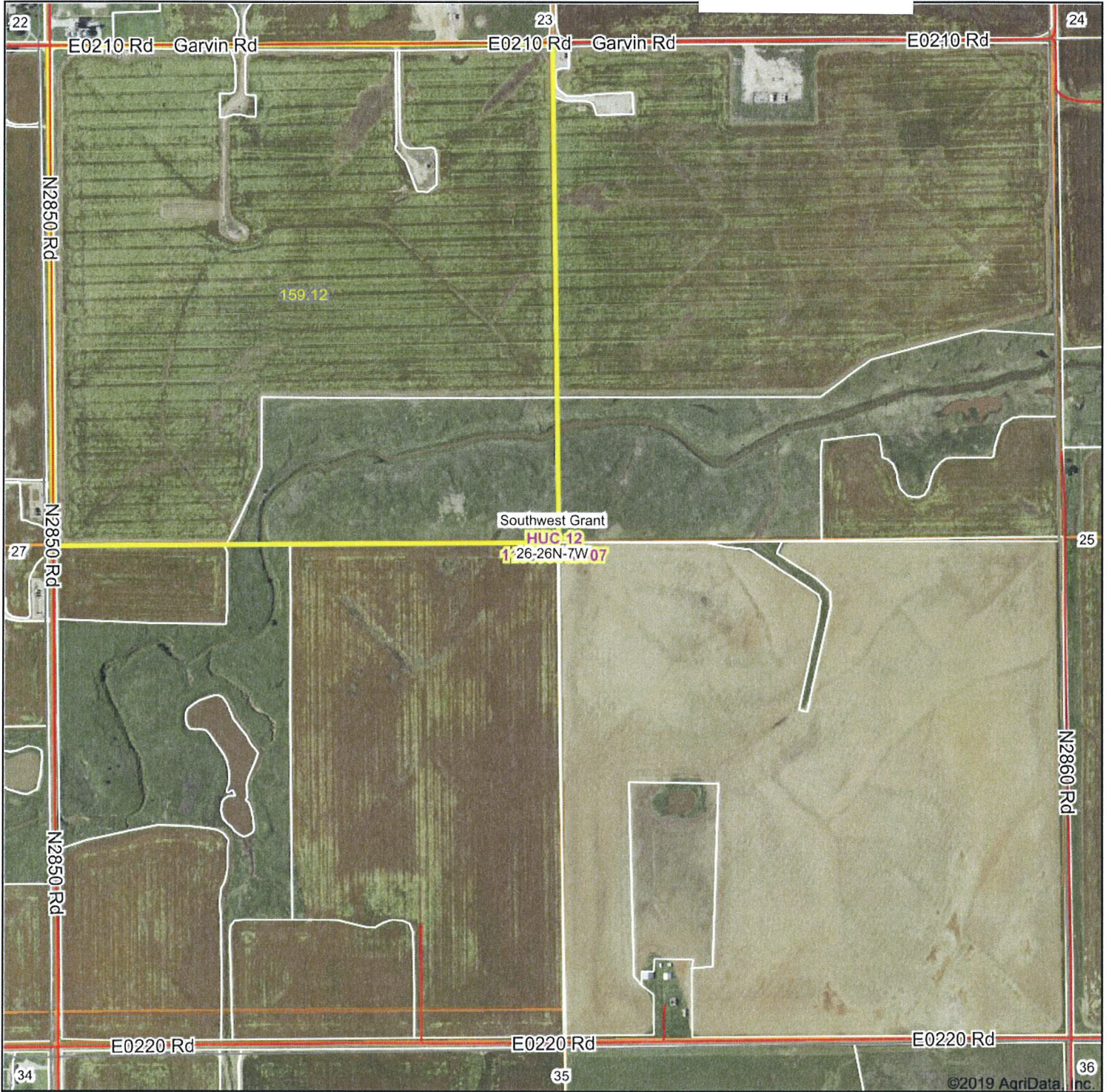


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

T11

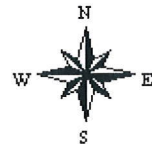


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Map Center: 36° 42' 7.87, -97° 55' 14.92



26-26N-7W
Grant County
Oklahoma

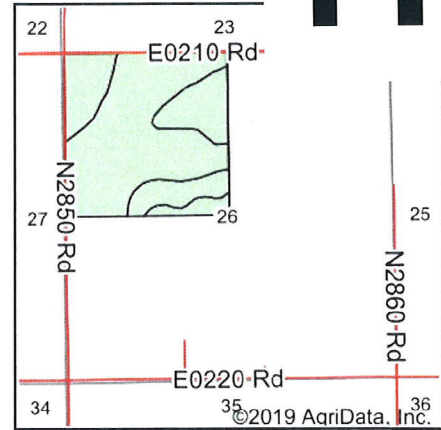
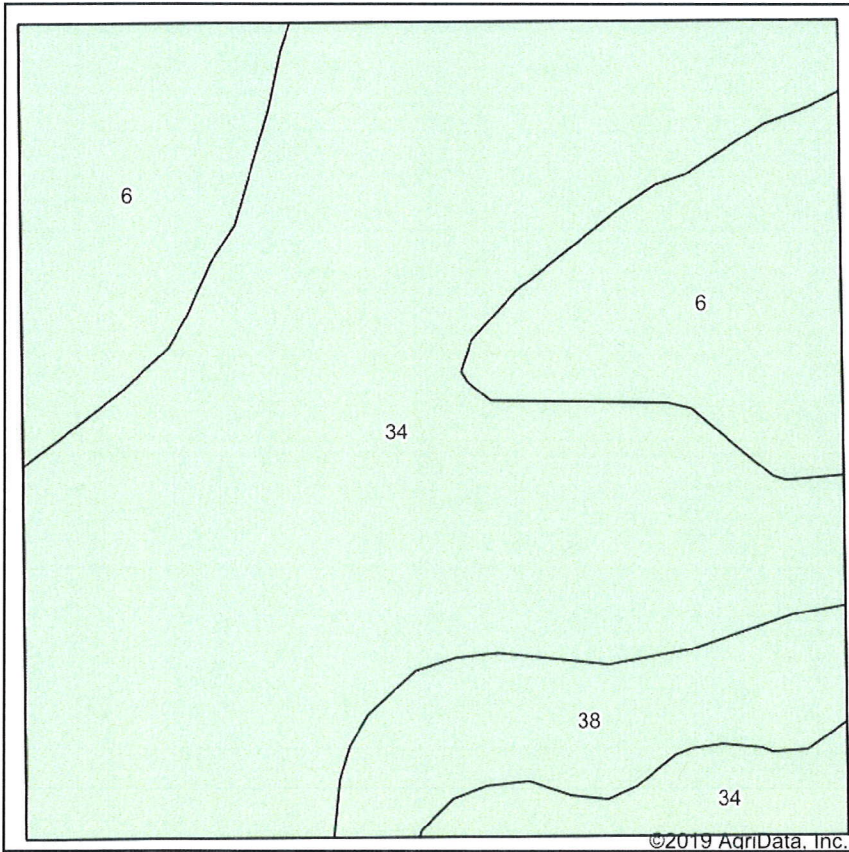


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T11



State: **Oklahoma**
 County: **Grant**
 Location: **26-26N-7W**
 Township: **Southwest Grant**
 Acres: **159.12**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Alfalfa hay	Grain sorghum	Wheat	Introduced bluestem	Cotton lint	Peanuts	Soybeans	Caucasian bluestem	Barley
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	104.58	65.7%	Is	6095	7	5	53	39	6	50	175	3	1	
6	Dale silt loam, 0 to 1 percent slopes, rarely flooded	39.26	24.7%	lw	6100		9	6	69		475	1615	29		
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	15.28	9.6%	Vls	3948		3	1	8	8	3	23			
Weighted Average					5890.1		7.1	4.9	52.6	35	4.2	152.3	513.5	9.1	0.7

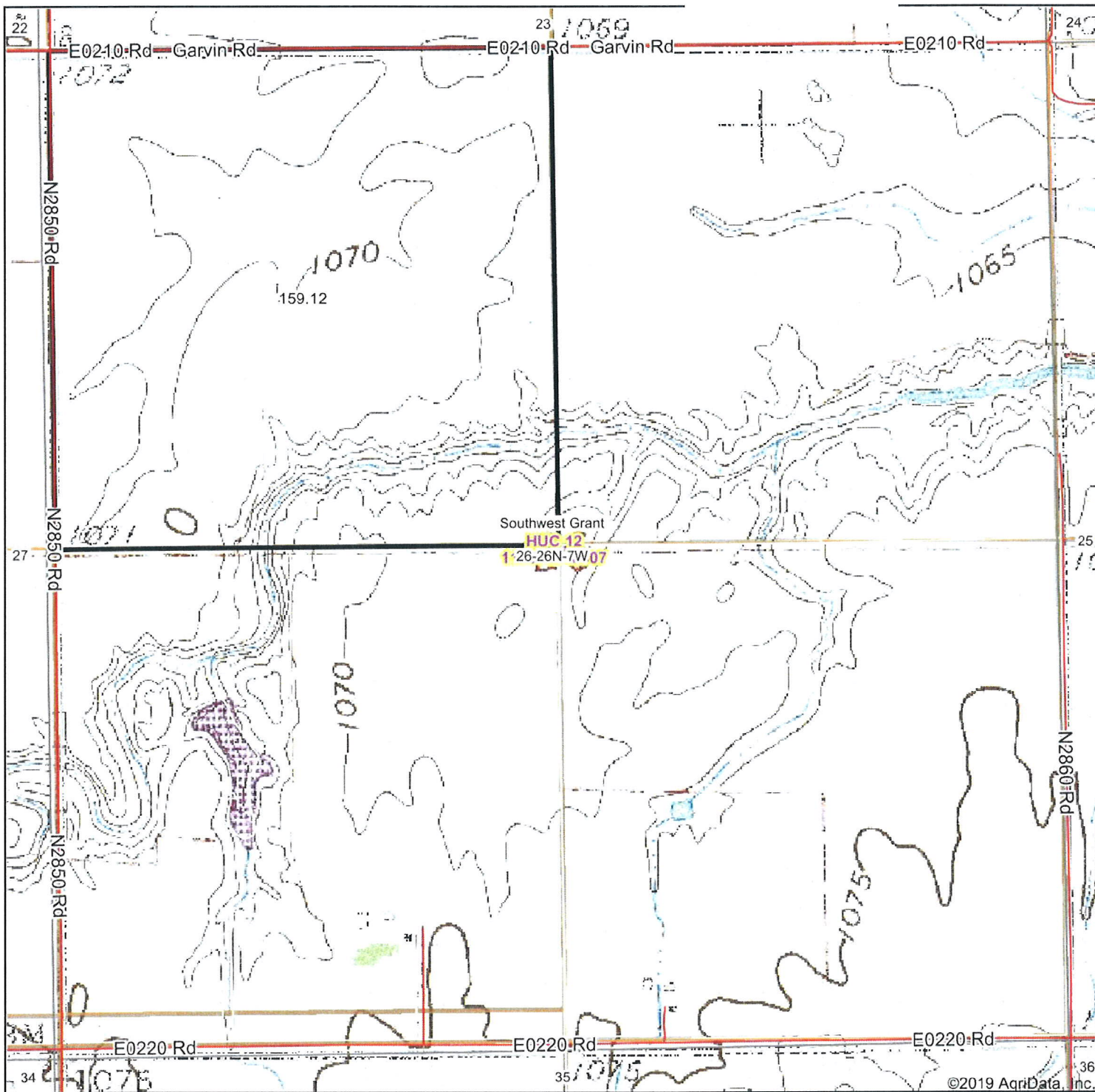
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

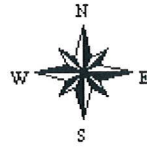
T11



map center: 36° 42' 7.87, -97° 55' 14.92



26-26N-7W
Grant County
Oklahoma

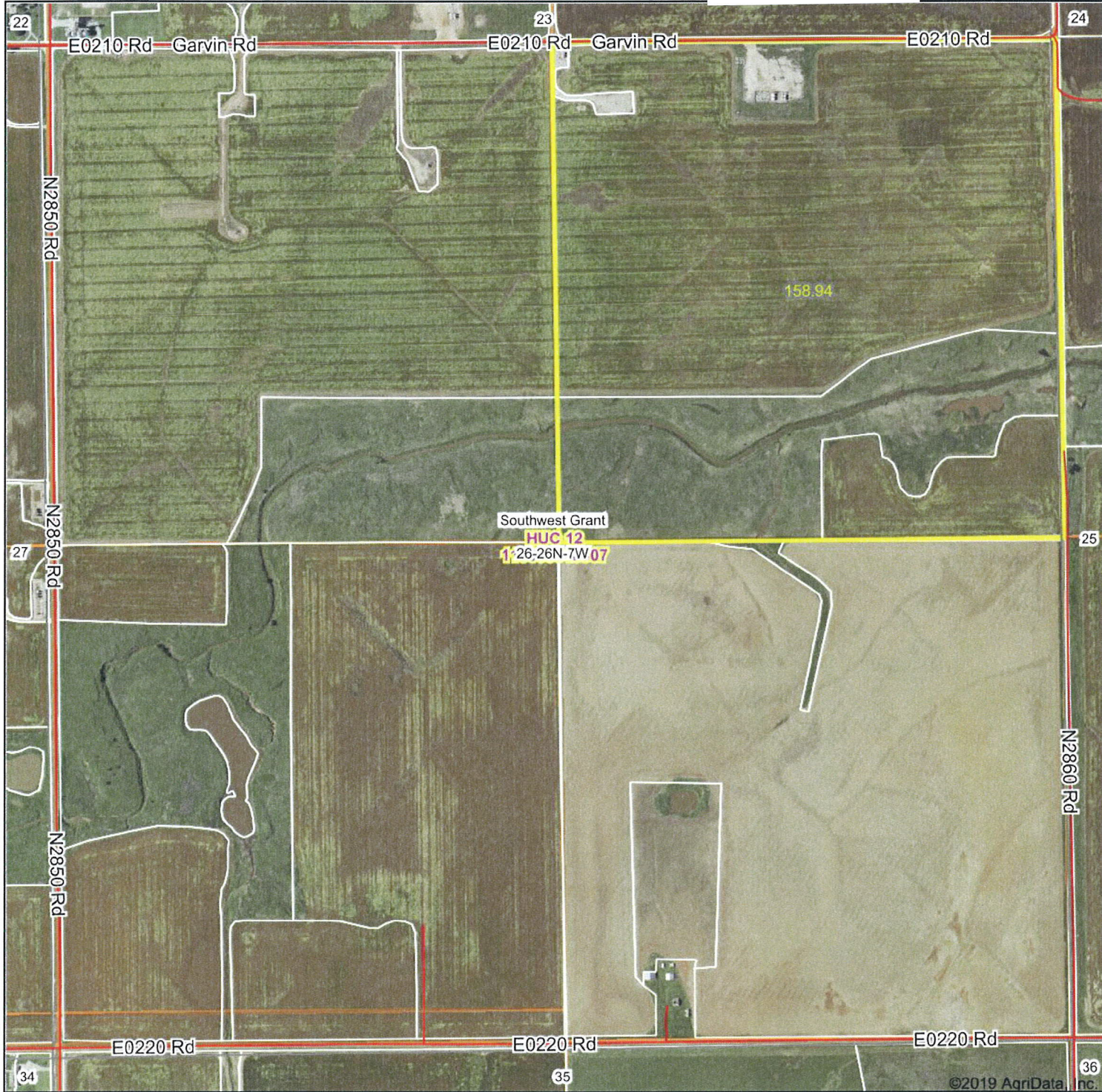


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

T12

Aerial Map



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Map Center: 36° 42' 7.87, -97° 55' 14.92



26-26N-7W
Grant County
Oklahoma

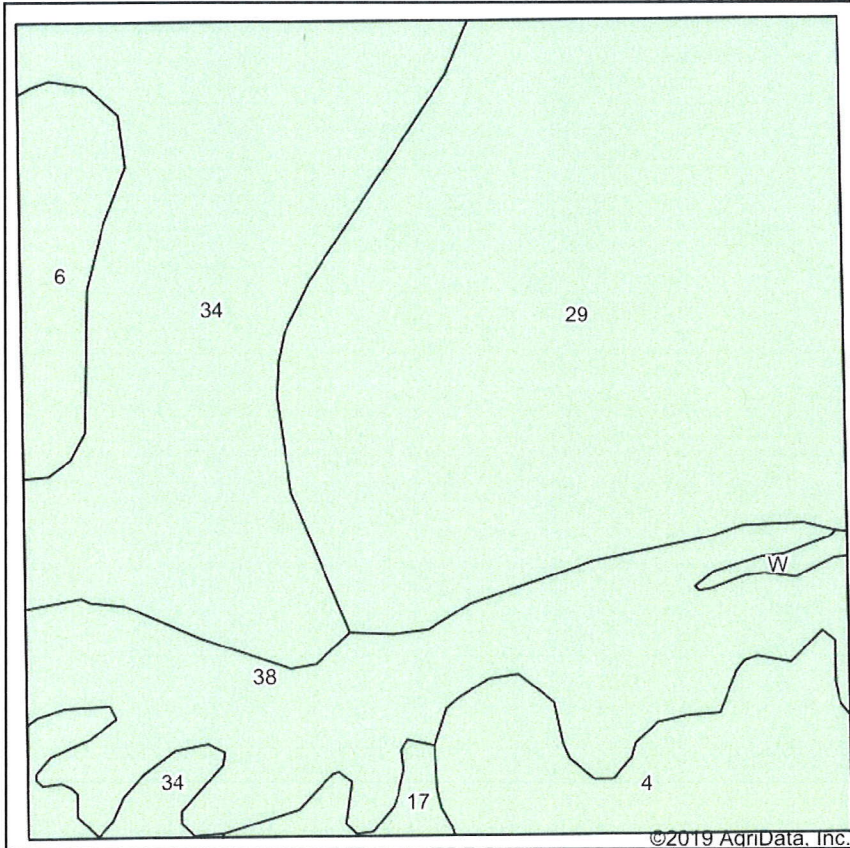


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T12



State: **Oklahoma**
 County: **Grant**
 Location: **26-26N-7W**
 Township: **Southwest Grant**
 Acres: **158.94**
 Date: **7/11/2019**



Maps Provided By



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Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

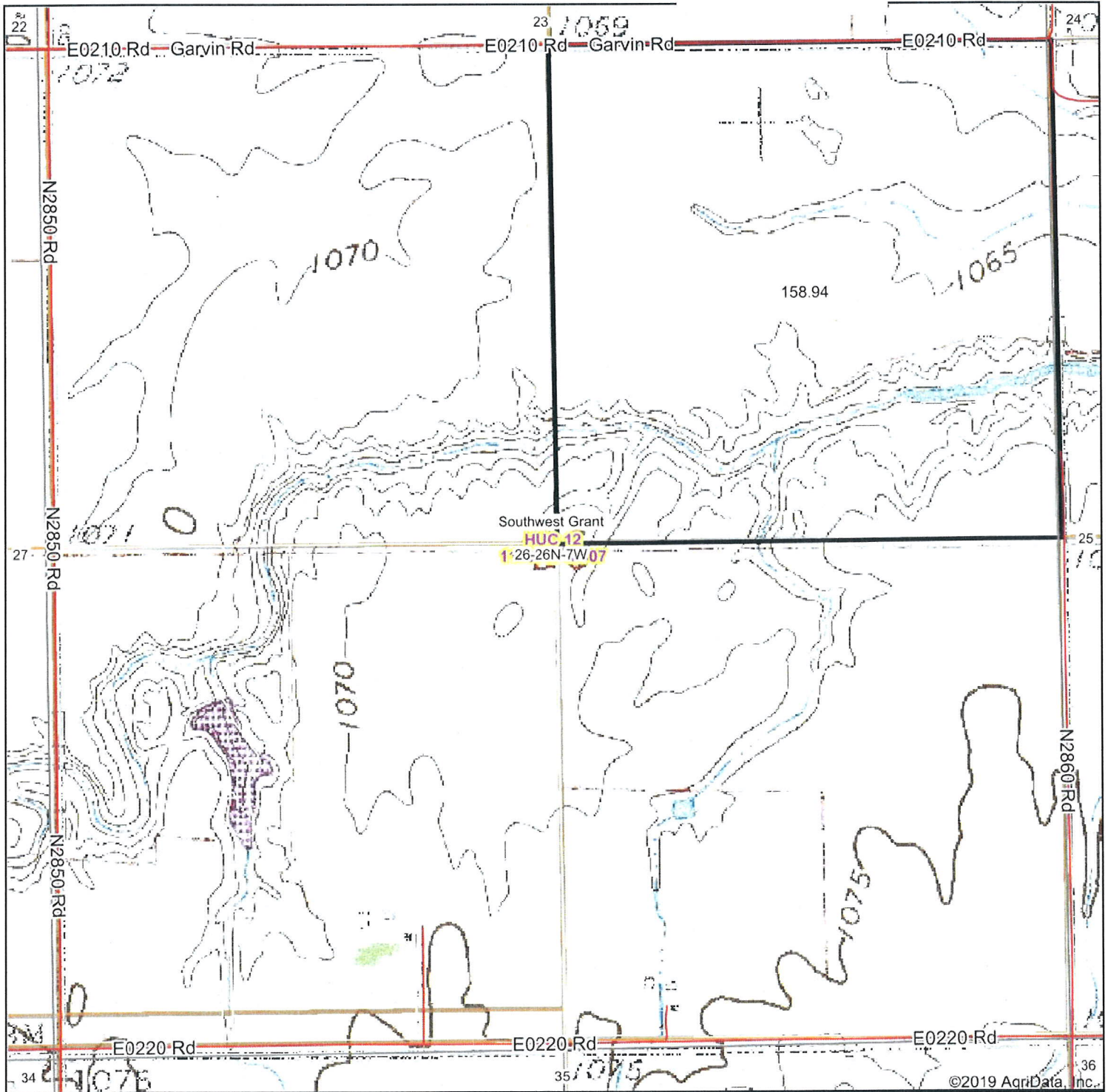
Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Alfalfa hay	Grain sorghum	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Wheat	Caucasian bluestem	Peanuts	Cantal
29	Kirkland silt loam, 0 to 1 percent slopes, cool	66.03	41.5%	Ils	Ils	3890		35	4	5		34			
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	41.88	26.3%	Is		6095	5	53	7	6		39	1	175	
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	28.63	18.0%	Vls		3948	1	8	3	3	1	8			
4	Bethany silt loam, 0 to 1 percent slopes	12.77	8.0%	Ile	Ile	4633		44	5	5		31			
6	Dale silt loam, 0 to 1 percent slopes, rarely flooded	7.08	4.5%	Iw		6100	6	69	9			35		1615	
17	Grant silt loam, 1 to 3 percent slopes	1.87	1.2%	Ile		4579	2	48	6	6	4	34		51	
W	Water	0.68	0.4%	VIII		0									
Weighted Average						4631.1	1.8	37.1	4.9	4.7	0.2	30.3	0.3	118.7	

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

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map T12



map center: 36° 42' 7.87, -97° 55' 14.92

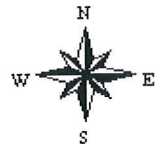


Maps Provided By:



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26-26N-7W
Grant County
Oklahoma



7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

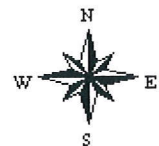


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Map Center: 36° 42' 7.95, -97° 54' 10.34



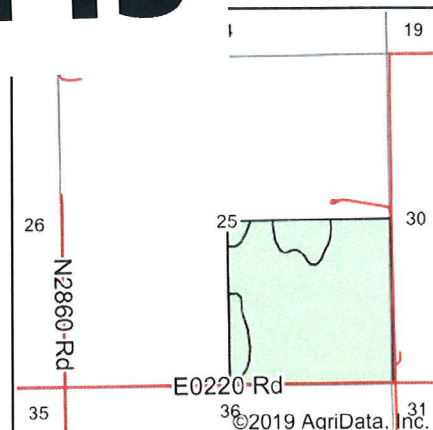
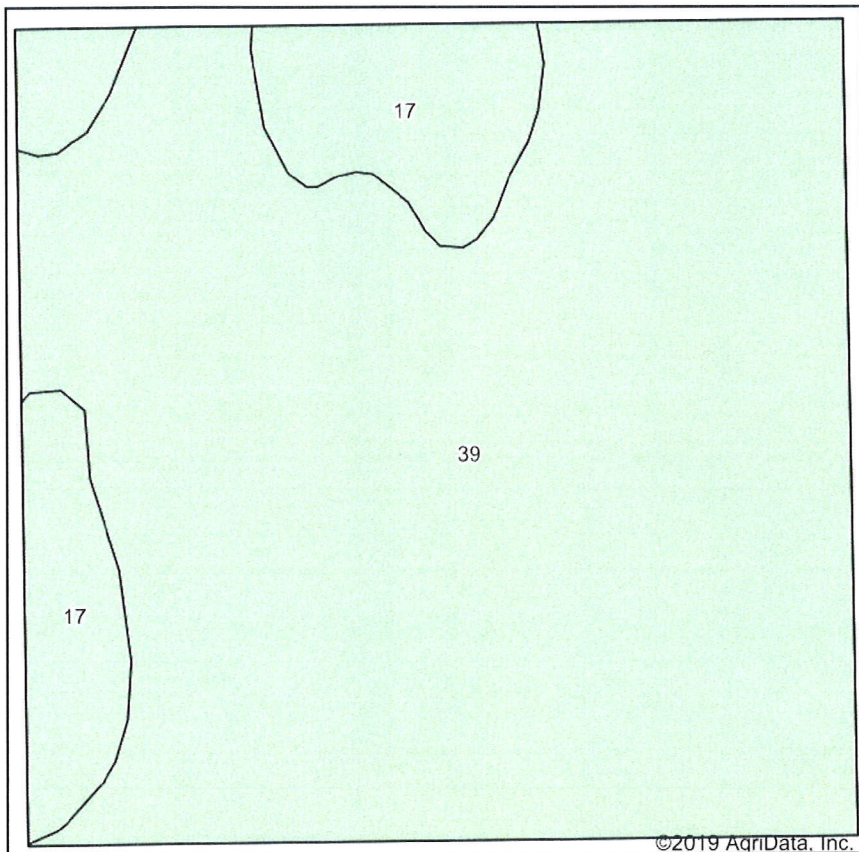
25-26N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T13



State: **Oklahoma**
 County: **Grant**
 Location: **25-26N-7W**
 Township: **Southwest Grant**
 Acres: **159.25**
 Date: **7/11/2019**



Maps Provided By



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Alfalfa hay	Grain sorghum	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Wheat	Peanuts	Cantaloupe	Cotton lint
39	Pond Creek silt loam, 0 to 1 percent slopes	136.90	86.0%	le	le	4747	4	50	5	5		35	85		5
17	Grant silt loam, 1 to 3 percent slopes	22.35	14.0%	lle		4579	2	48	6	6	4	34	51	5	8
Weighted Average						4723.4	3.7	49.7	5.1	5.1	0.6	34.9	80.2	0.7	5

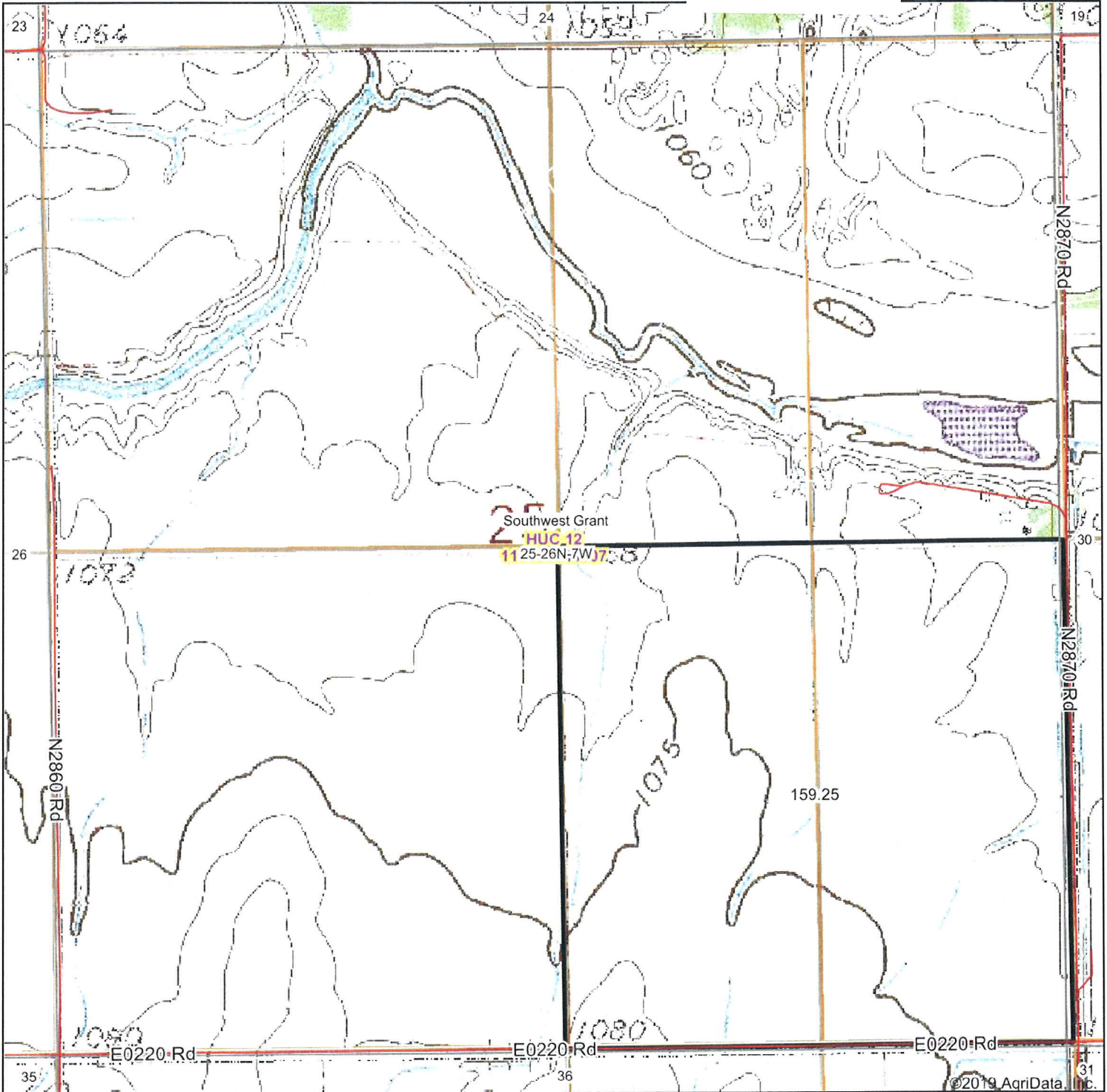
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T13



map center: 36° 42' 7.95, -97° 54' 10.34



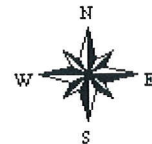
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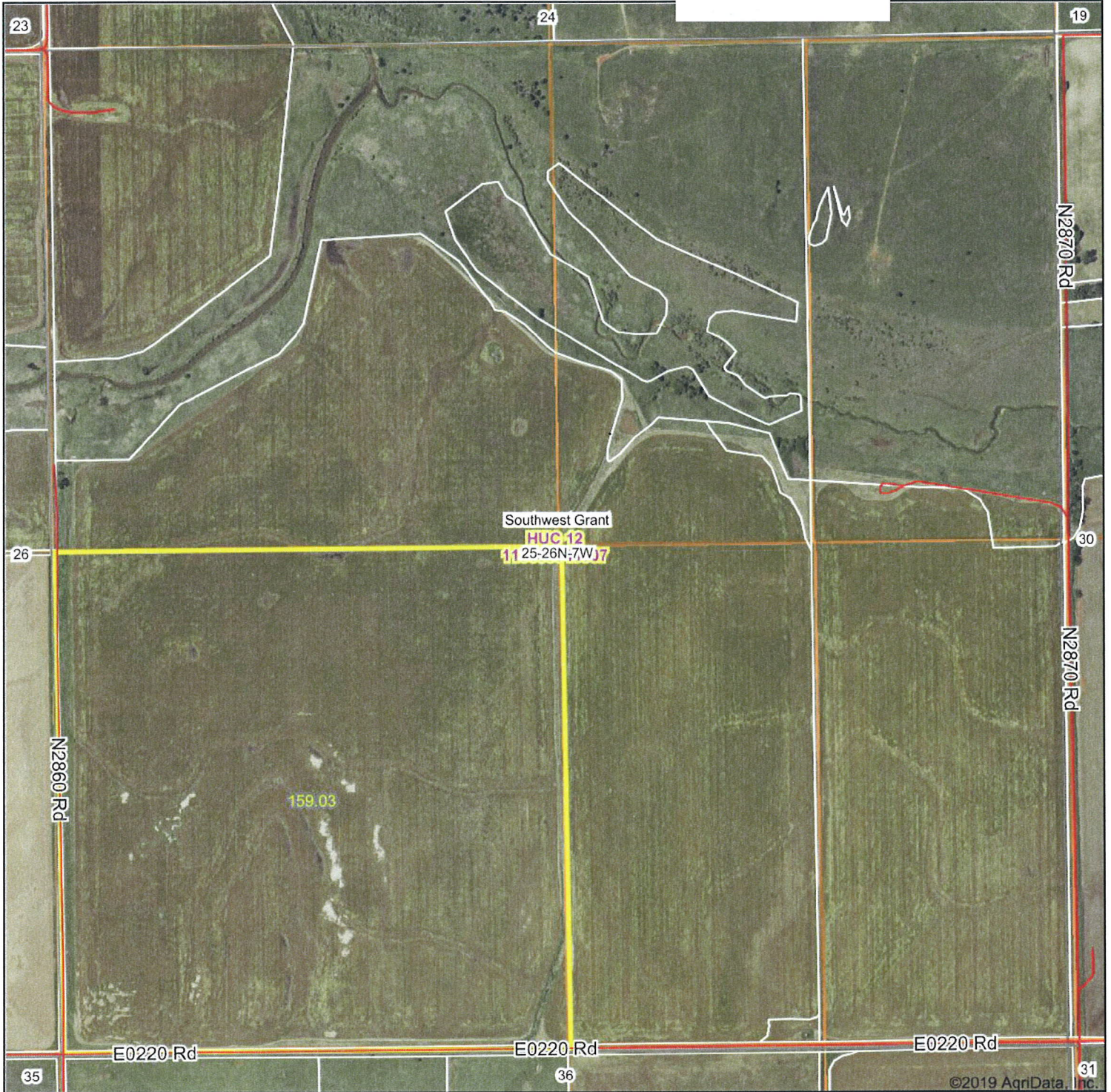
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25-26N-7W
Grant County
Oklahoma



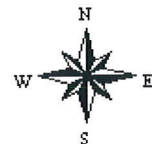
7/11/2019



Map Center: 36° 42' 7.95, -97° 54' 10.34



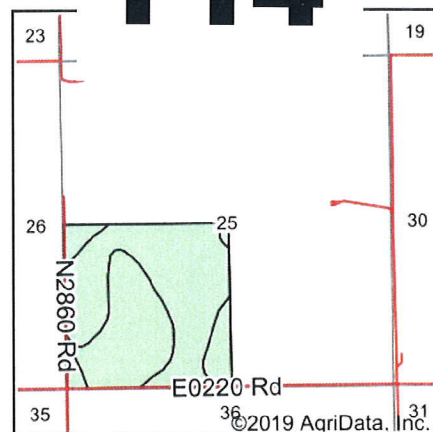
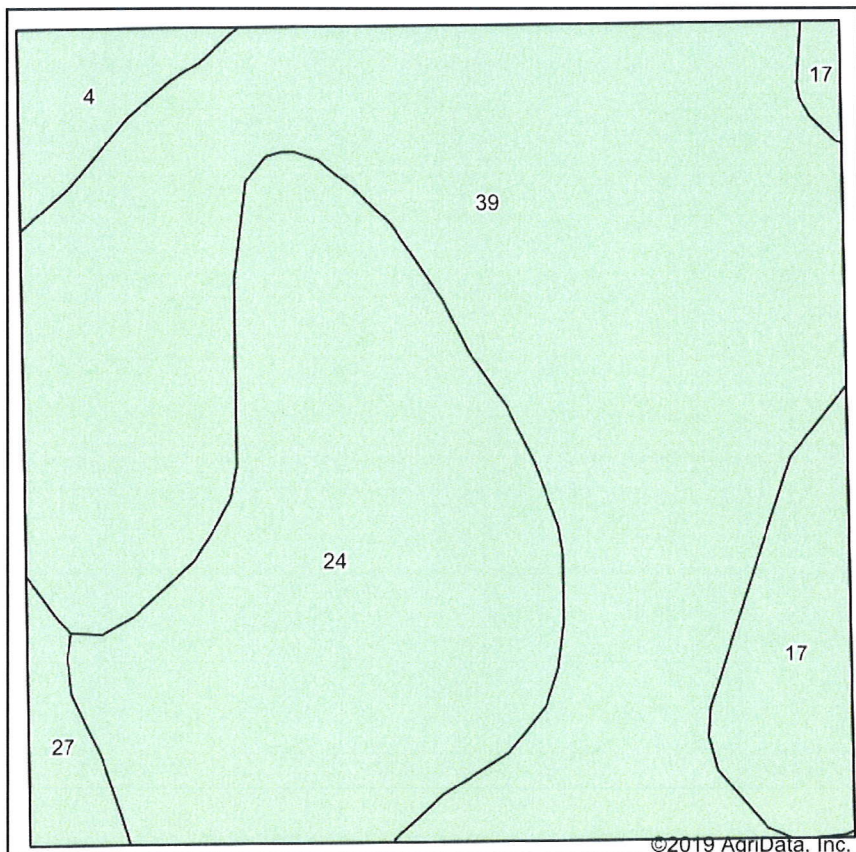
25-26N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T14



State: **Oklahoma**
 County: **Grant**
 Location: **25-26N-7W**
 Township: **Southwest Grant**
 Acres: **159.03**
 Date: **7/11/2019**



Maps Provided By:



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Alfalfa hay	Grain sorghum	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Wheat	Peanuts	Cantaloupe	
39	Pond Creek silt loam, 0 to 1 percent slopes	89.83	56.5%	> 6.5ft.	le	le	4747	4	50		5	5	35	85		
24	Kingfisher silt loam, 1 to 3 percent slopes	49.39	31.1%	> 6.5ft.	llle		4662		40		5	5	30			
17	Grant silt loam, 1 to 3 percent slopes	11.12	7.0%	> 6.5ft.	lle		4579	2	48		6	6	4	34	51	
4	Bethany silt loam, 0 to 1 percent slopes	5.10	3.2%	> 6.5ft.	lle	lle	4633		44		5	5	31			
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	3.59	2.3%	2.5ft.	llls		4111		28		4	4	2	26		
Weighted Average							4690.8	2.4	46.1		5	5	0.3	33	51.6	0.3

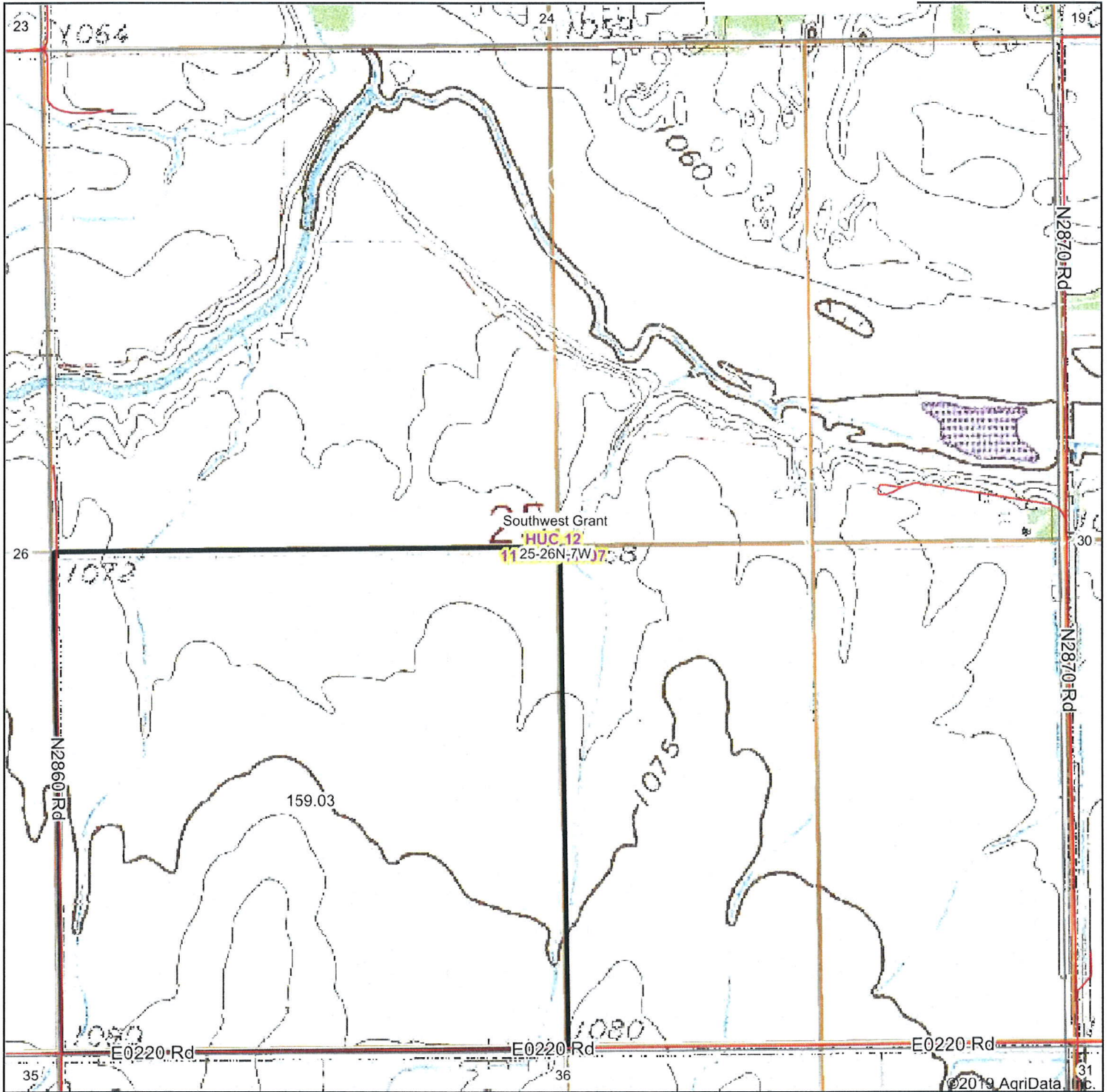
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

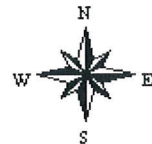
T14



map center: 36° 42' 7.95, -97° 54' 10.34



25-26N-7W
Grant County
Oklahoma



7/11/2019



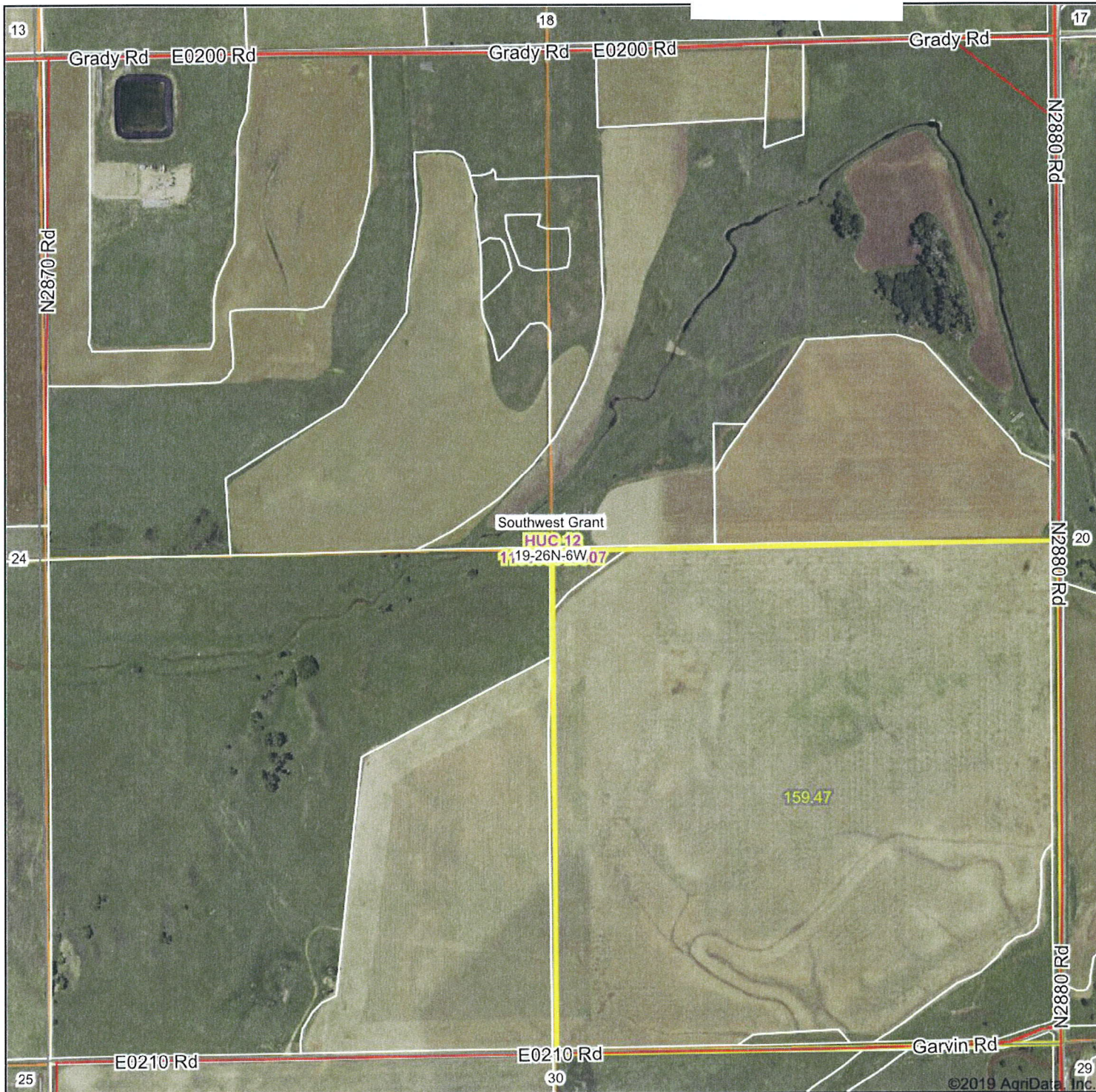
Maps Provided By



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Aerial Map

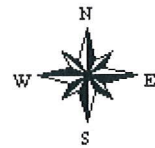
T15



Map Center: 36° 43' 0.37, -97° 53' 5.18



19-26N-6W
Grant County
Oklahoma



7/11/2019

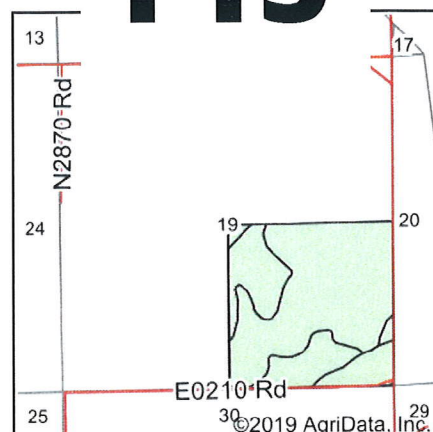
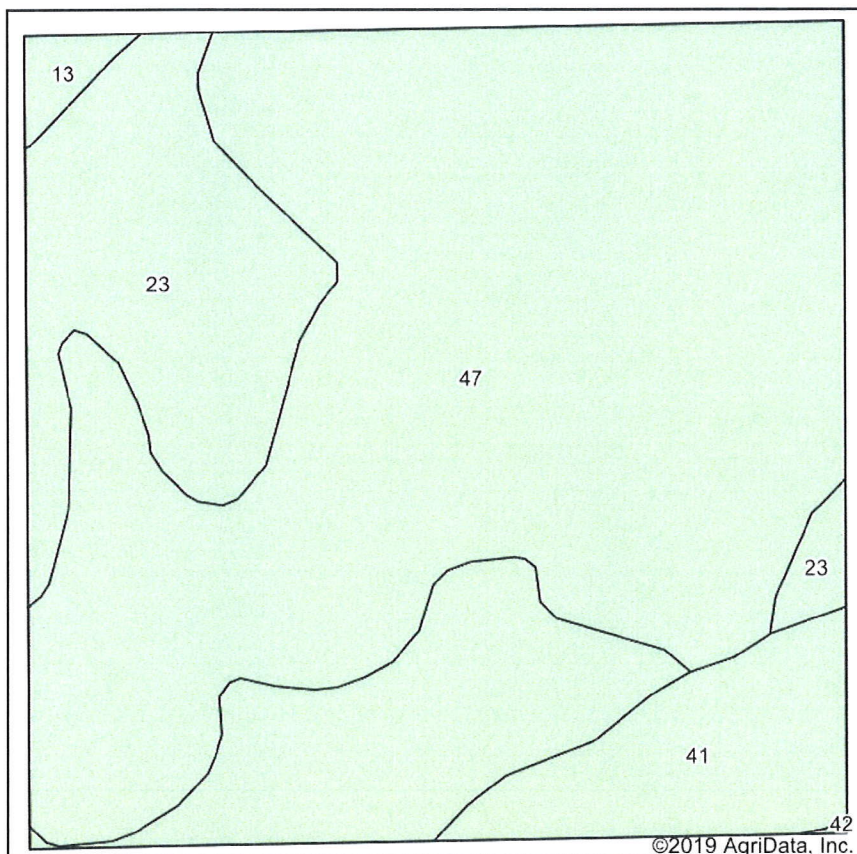


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Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T15



State: **Oklahoma**
 County: **Grant**
 Location: **19-26N-6W**
 Township: **Southwest Grant**
 Acres: **159.47**
 Date: **7/11/2019**



Maps Provided By



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Weeping lovegrass	Wheat	Alfalfa hay	Grain sorghum	Peanuts	Cotton lint	Soybe
47	Reinach very fine sandy loam, 0 to 1 percent slopes, rarely flooded	101.77	63.8%	Is	6100		9	6		44	5	59	51	25	
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	43.47	27.3%	Ile	6052		8			34	5	54	102	60	
41	Port silt loam, 0 to 1 percent slopes, occasionally flooded	12.60	7.9%	llw	6112		9			34	5	49	48	13	
13	Goodnight loamy fine sand, 3 to 5 percent slopes	1.56	1.0%	IVe	3031		4		4	20		5	108	20	
42	Port and Pocasset soils, 0 to 1 percent slopes, frequently flooded	0.07	0.0%	Vw	6092		5	5	4	2		3			
Weighted Average						6057.8	8.7	3.8	*-	*-	40.2	4.9	56.3	65.2	33.5

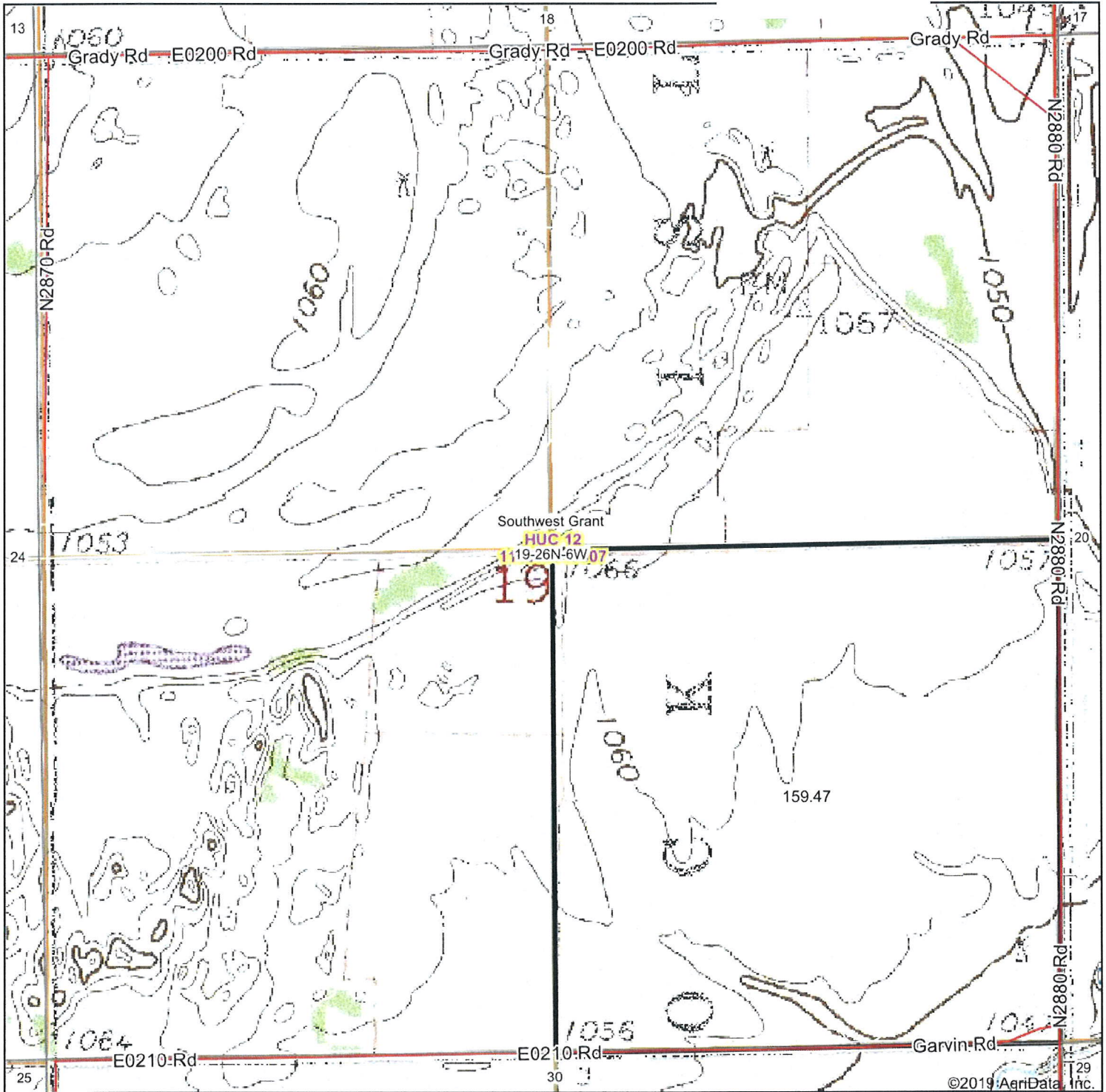
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T15



©2019 AgriData, Inc.

map center: 36° 43' 0.37, -97° 53' 5.18

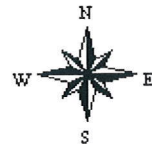


Maps Provided By:



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19-26N-6W
Grant County
Oklahoma

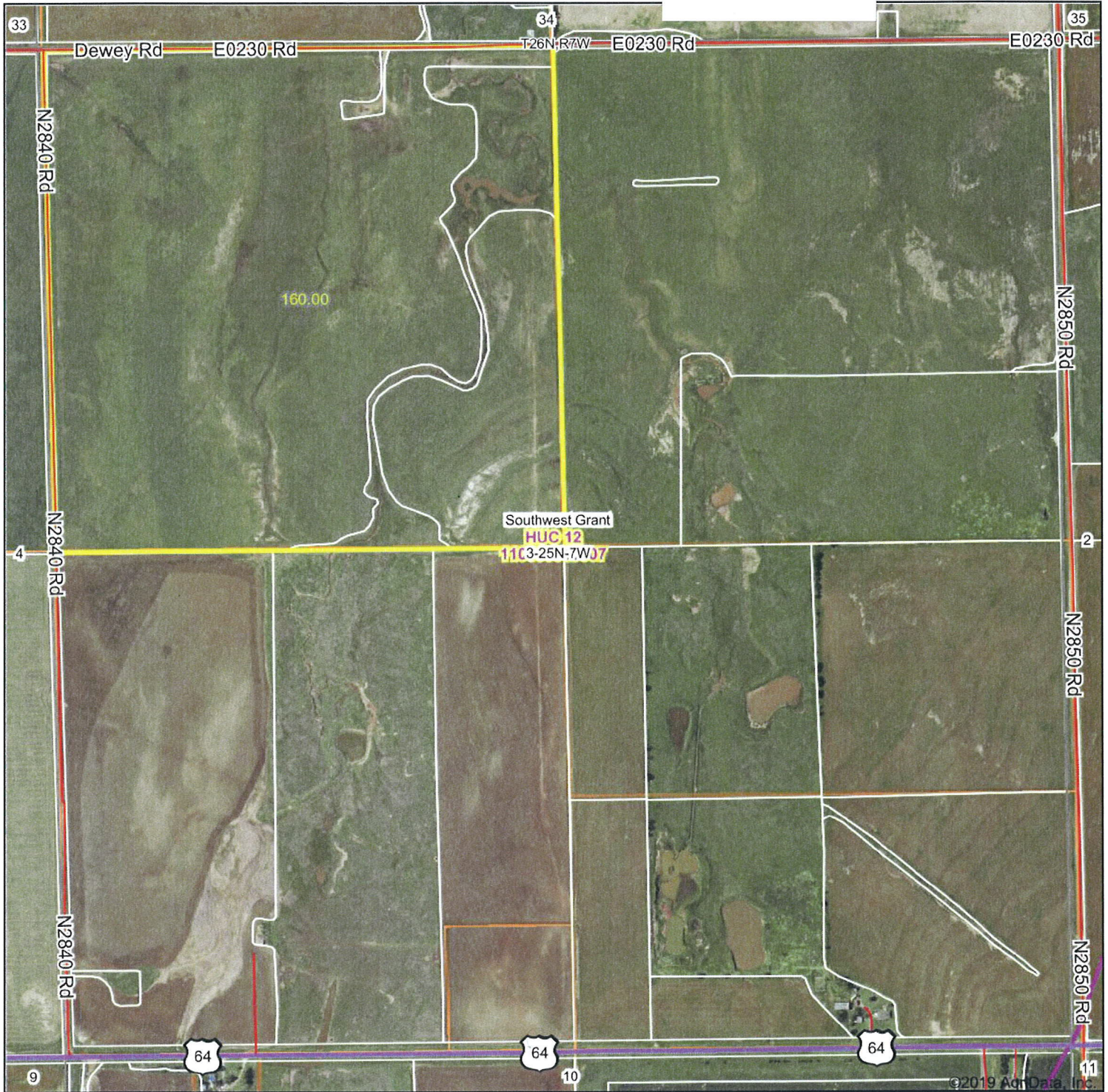


7/11/2019

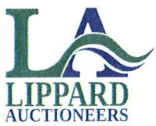
Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

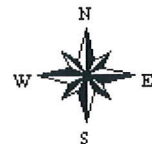
T16



Map Center: 36° 40' 24.03, -97° 56' 19.54



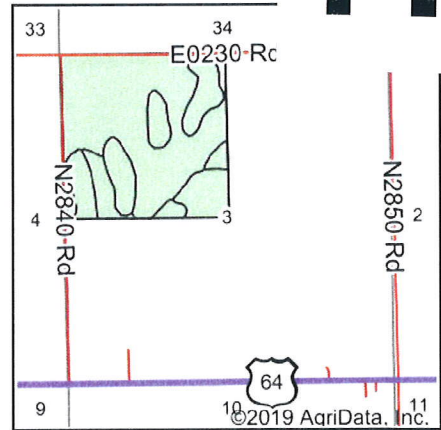
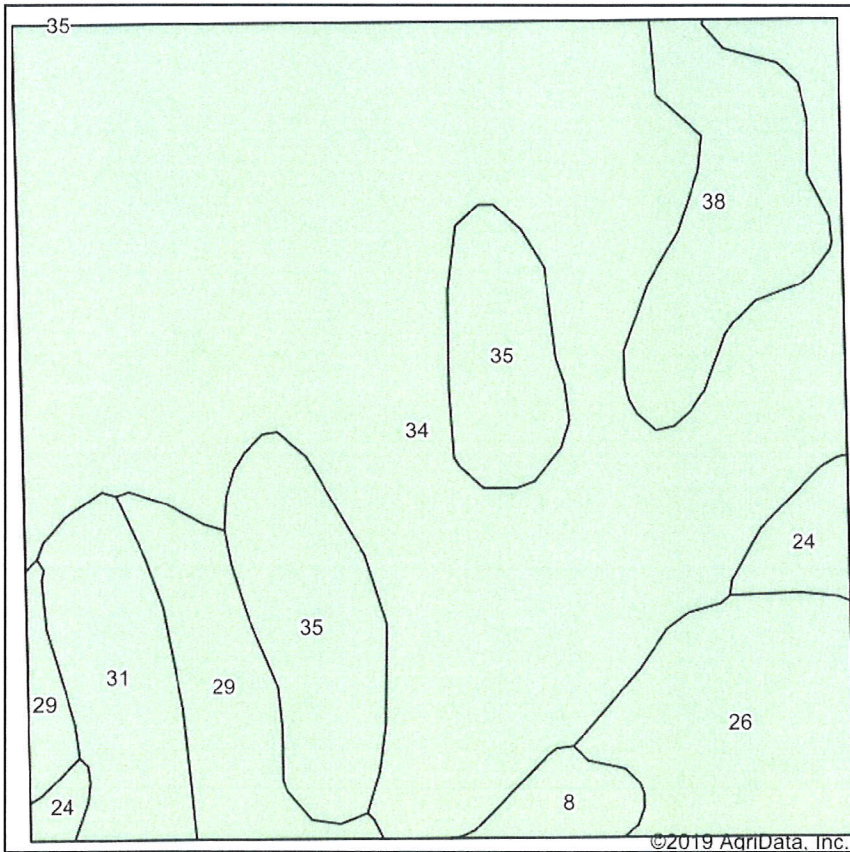
3-25N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T16



State: **Oklahoma**
 County: **Grant**
 Location: **3-25N-7W**
 Township: **Southwest Grant**
 Acres: **160**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

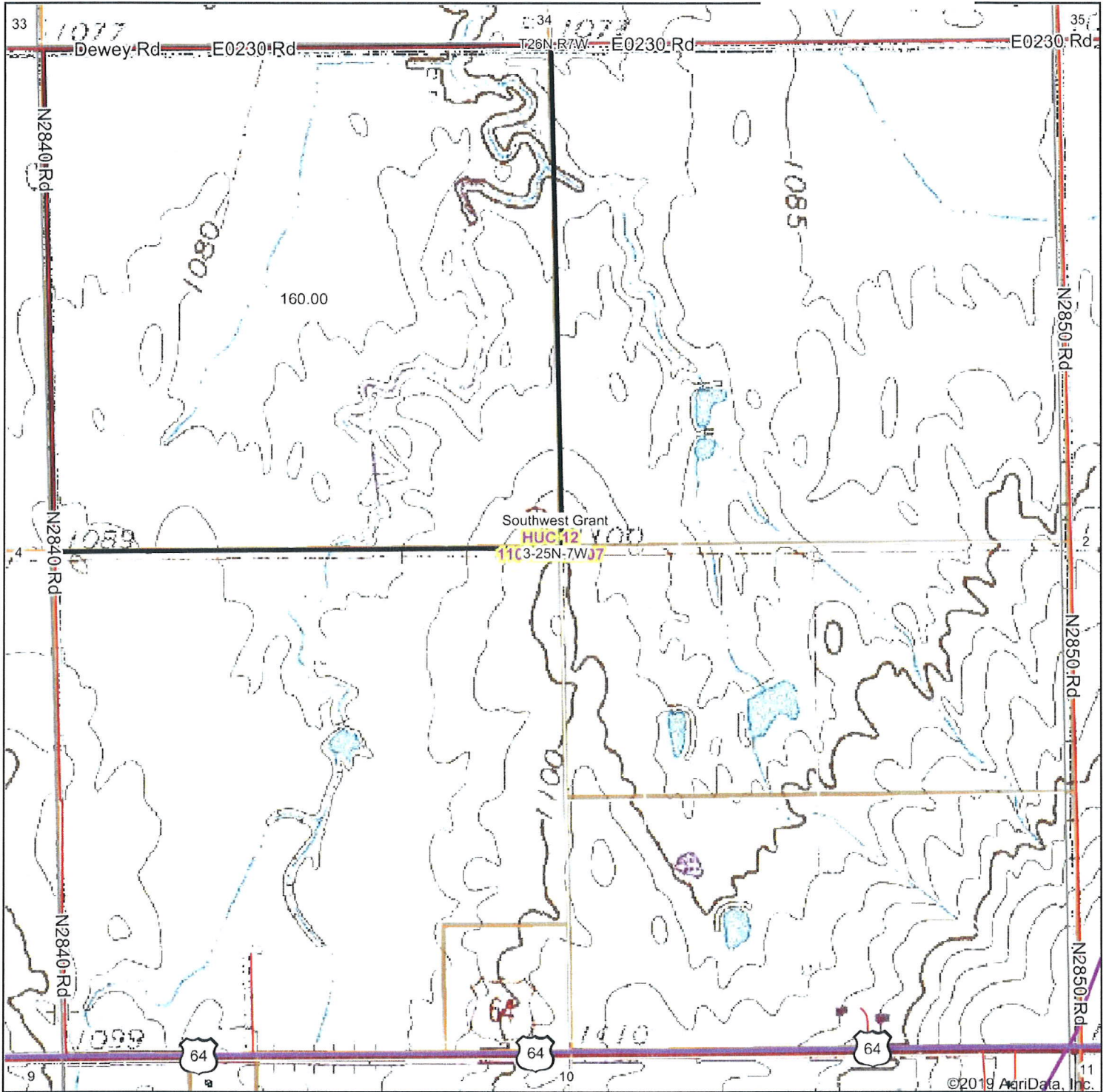
©2019 AgriData, Inc.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley	Alfalfa hay	Tall wheatgrass	Oats
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	96.68	60.4%	> 6.5ft.	Is		6095	53	7	6	39	50		5		
35	McLain-Drummond complex, 0 to 1 percent slopes, rarely flooded	16.10	10.1%	3ft.	Is		5910	32	6	2	23	75		3		3
26	Kingfisher silt loam, 3 to 5 percent slopes, eroded	12.57	7.9%	> 6.5ft.	IIle		0									
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	10.94	6.8%	> 6.5ft.	VIIs		3948	8	3	3	8	23	5	1		1
29	Kirkland silt loam, 0 to 1 percent slopes, cool	9.37	5.9%	> 6.5ft.	IIIs	IIIs	3890	35	4	5	34	22	4			34
31	Kirkland-Pawhuska complex, 0 to 3 percent slopes	8.55	5.3%	> 6.5ft.	IIIs	IIIs	3673	27	4	4	29	51	2			23
24	Kingfisher silt loam, 1 to 3 percent slopes	3.33	2.1%	> 6.5ft.	IIIe		4662	40	5	5	30	13	2			2

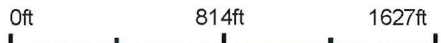
Topography Map

T16



©2019 AgriData, Inc.

map center: 36° 40' 24.03, -97° 56' 19.54



3-25N-7W
Grant County
Oklahoma

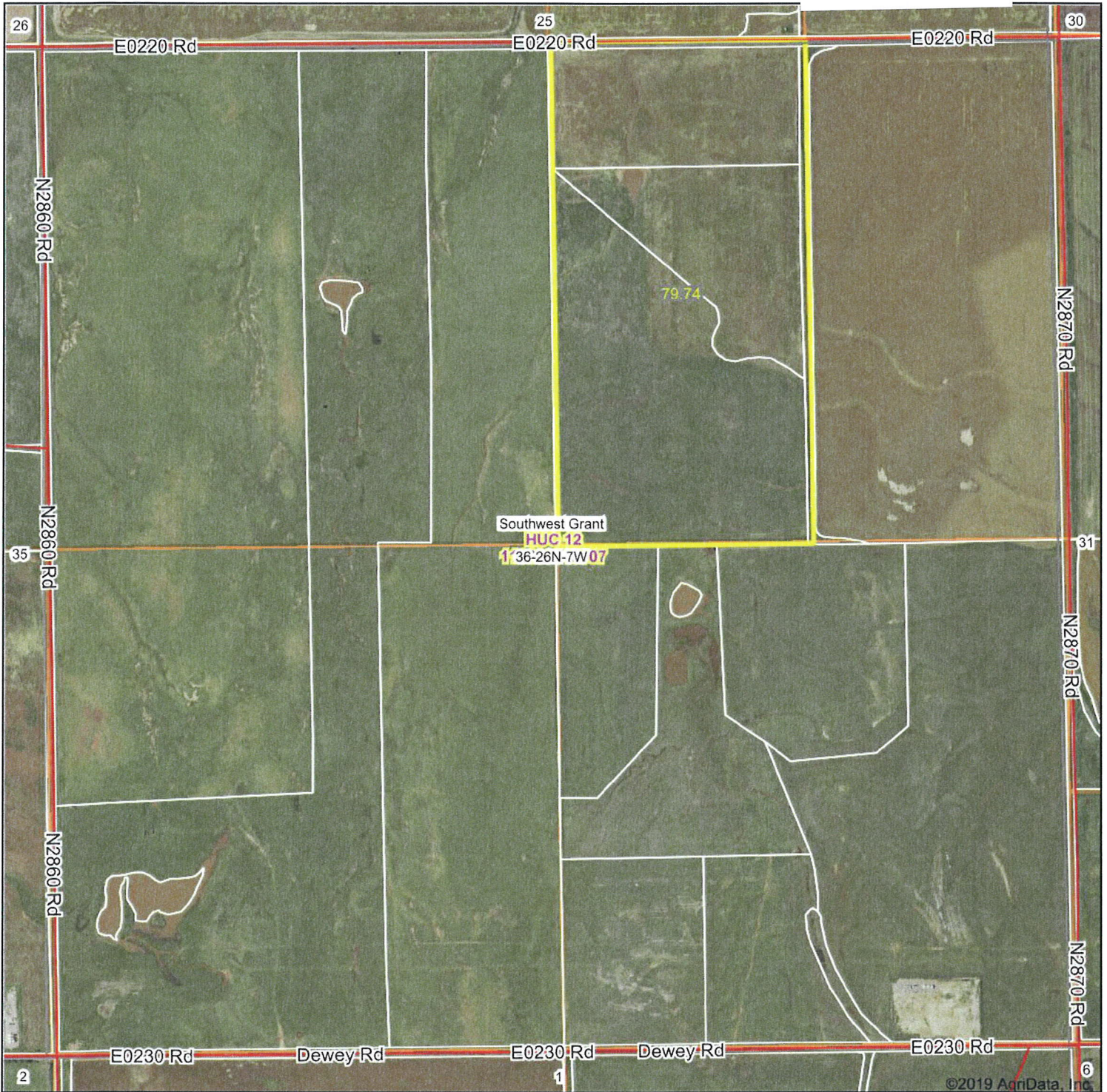


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

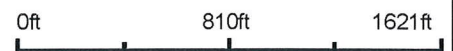
T17



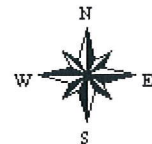
©2019 AgriData, Inc



Map Center: 36° 41' 15.88, -97° 54' 9.9



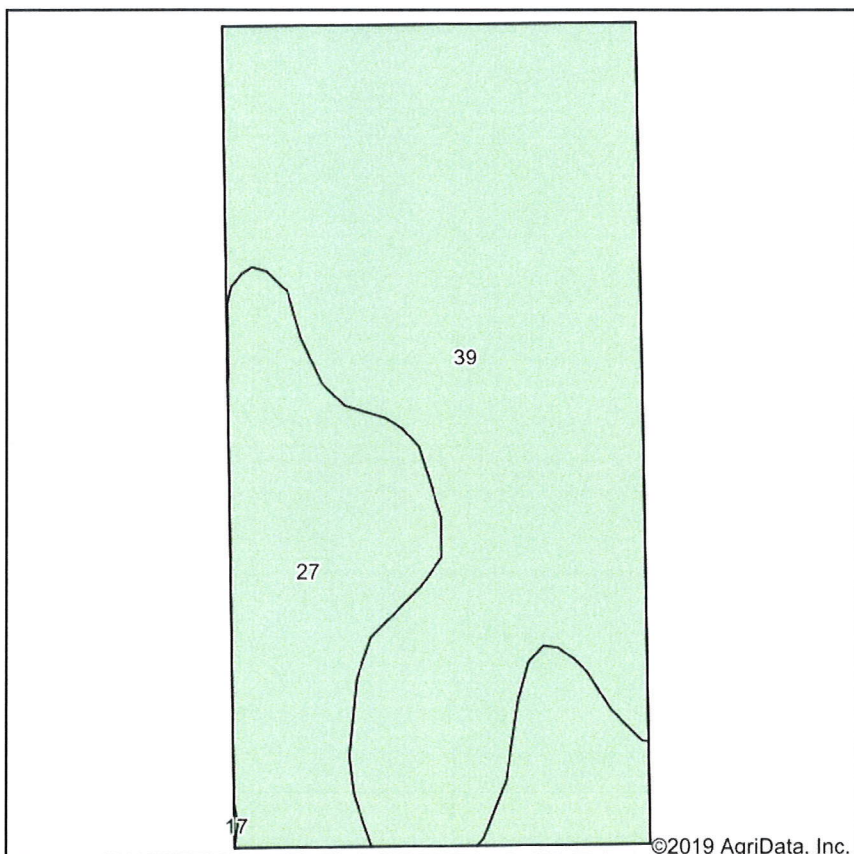
36-26N-7W
Grant County
Oklahoma



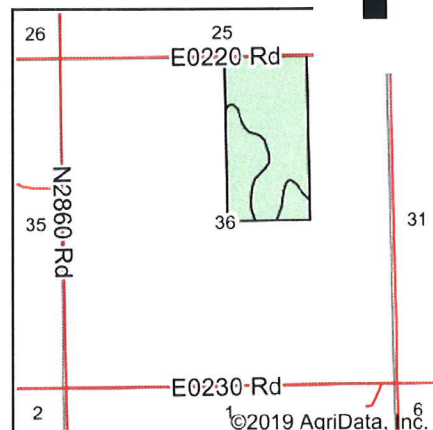
7/11/2019

Soils Map

T17



Soils data provided by USDA and NRCS.



State: **Oklahoma**
 County: **Grant**
 Location: **36-26N-7W**
 Township: **Southwest Grant**
 Acres: **79.74**
 Date: **7/11/2019**



Maps Provided By:



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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Alfalfa hay	Grain sorghum	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Wheat	Peanuts	Cantaloupe	
39	Pond Creek silt loam, 0 to 1 percent slopes	55.60	69.7%	> 6.5ft.	le	le	4747	4	50		5	5	35	85		
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	24.14	30.3%	2.5ft.	lls		4111		28		4	4	2	26		
Weighted Average							4554.5	2.8	43.3		4.7	4.7	0.6	32.3	59.3	*-

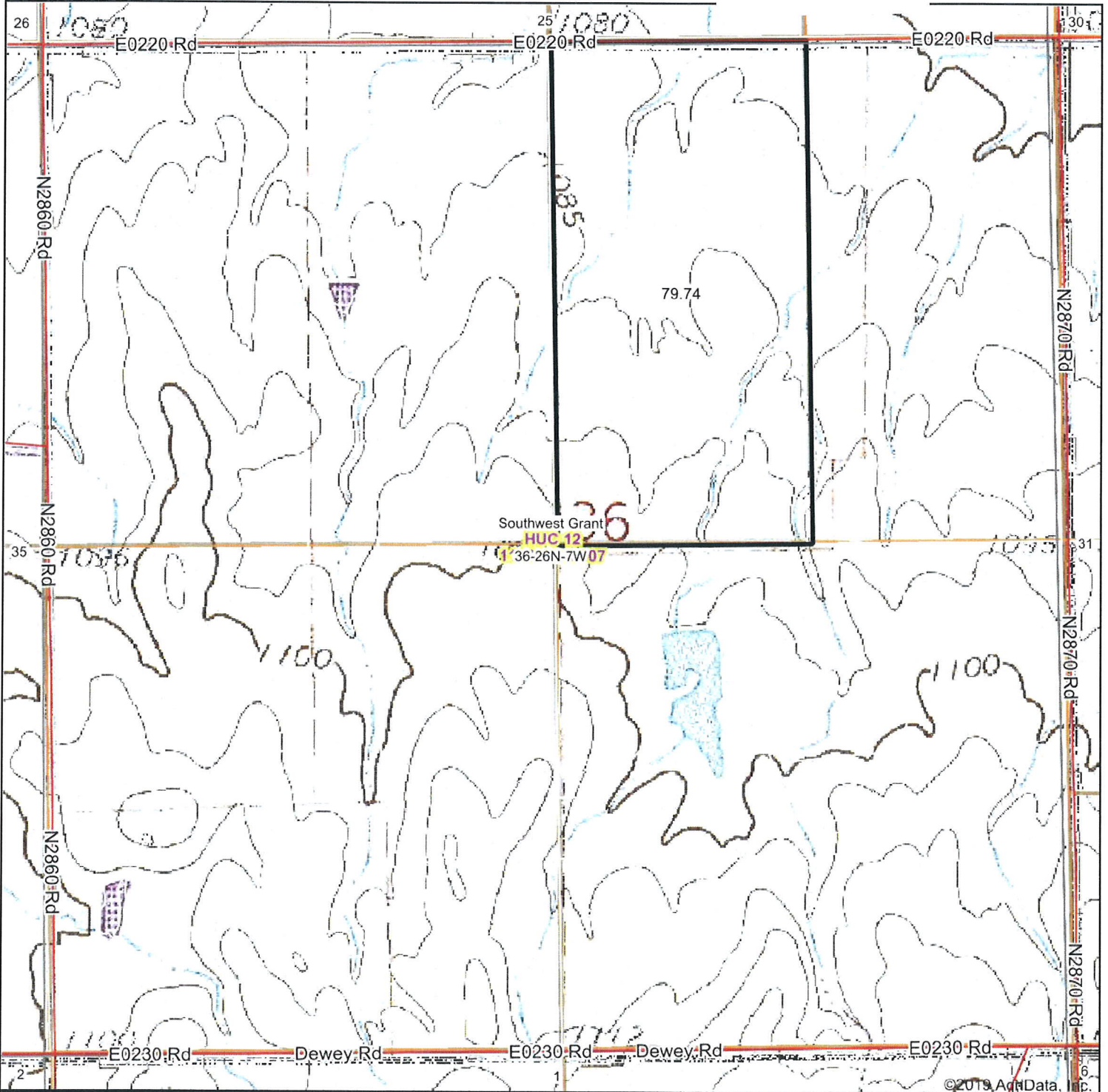
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T17

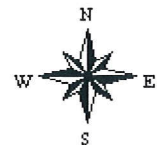


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map center: 36° 41' 15.88, -97° 54' 9.9



36-26N-7W
Grant County
Oklahoma



7/11/2019



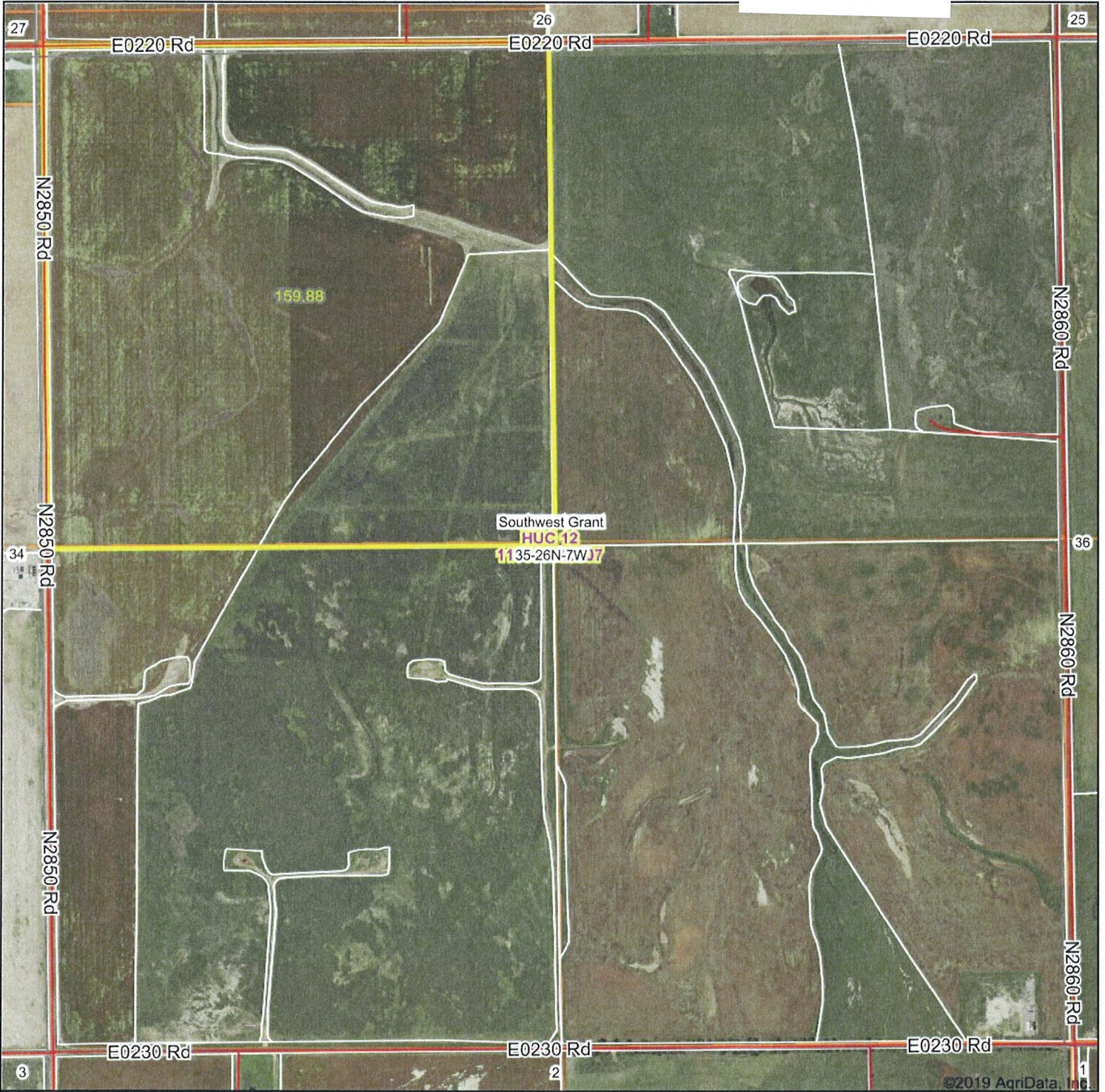
Maps Provided By



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Aerial Map

T18



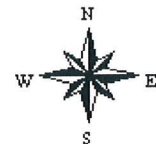
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Map Center: 36° 41' 15.95, -97° 55' 14.8



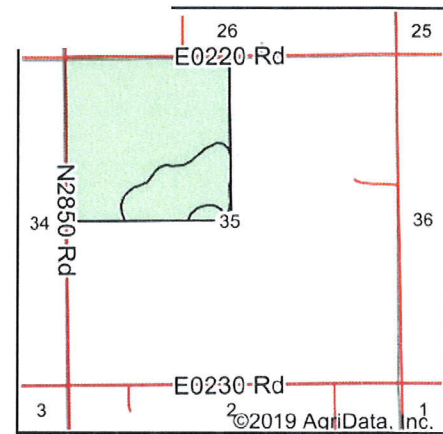
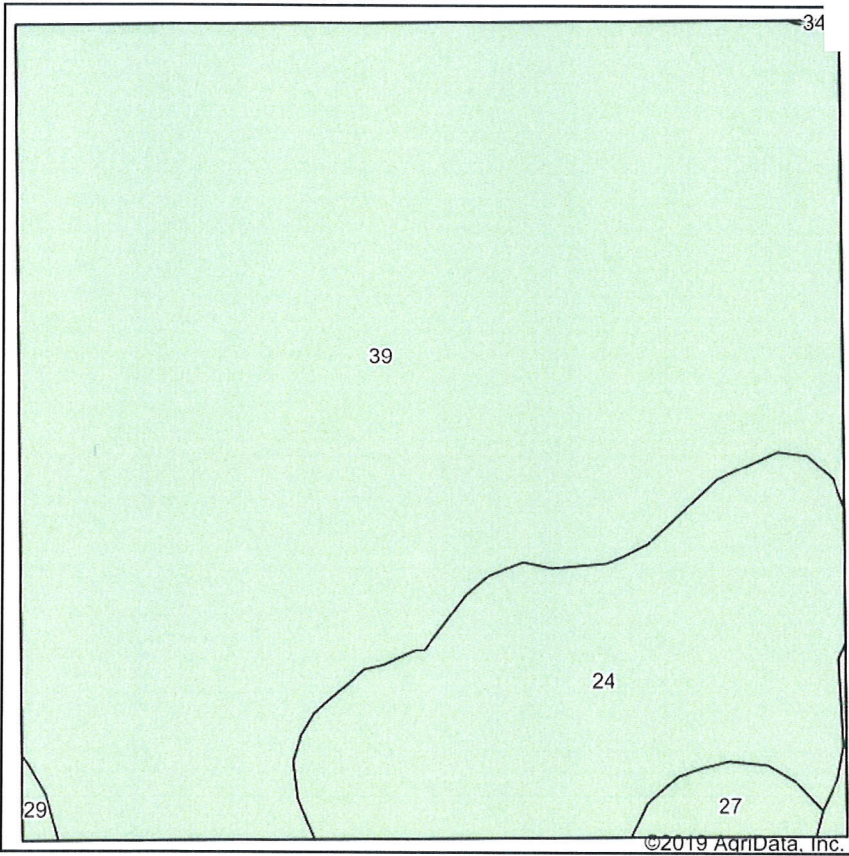
35-26N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T18



State: **Oklahoma**
 County: **Grant**
 Location: **35-26N-7W**
 Township: **Southwest Grant**
 Acres: **159.88**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley	Alfalfa hay	Tall wheatgrass	Oats	S h	
39	Pond Creek silt loam, 0 to 1 percent slopes	124.67	78.0%	> 6.5ft.	le	le	4747	50	5	5	35	58		4				
24	Kingfisher silt loam, 1 to 3 percent slopes	32.13	20.1%	> 6.5ft.	IIIe		4662	40	5	5	30	13	2				2	
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	2.56	1.6%	2.5ft.	III s		4111	28	4	4	26					2	2	
29	Kirkland silt loam, 0 to 1 percent slopes, cool	0.45	0.3%	> 6.5ft.	II s	II s	3890	35	4	5	34	22	4				34	
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	0.07	0.0%	> 6.5ft.	I s		6095	53	7	6	39	50		5				
Weighted Average							4717.9	47.6	5	5	33.9	47.9	0.4	3.1	*	0.5		

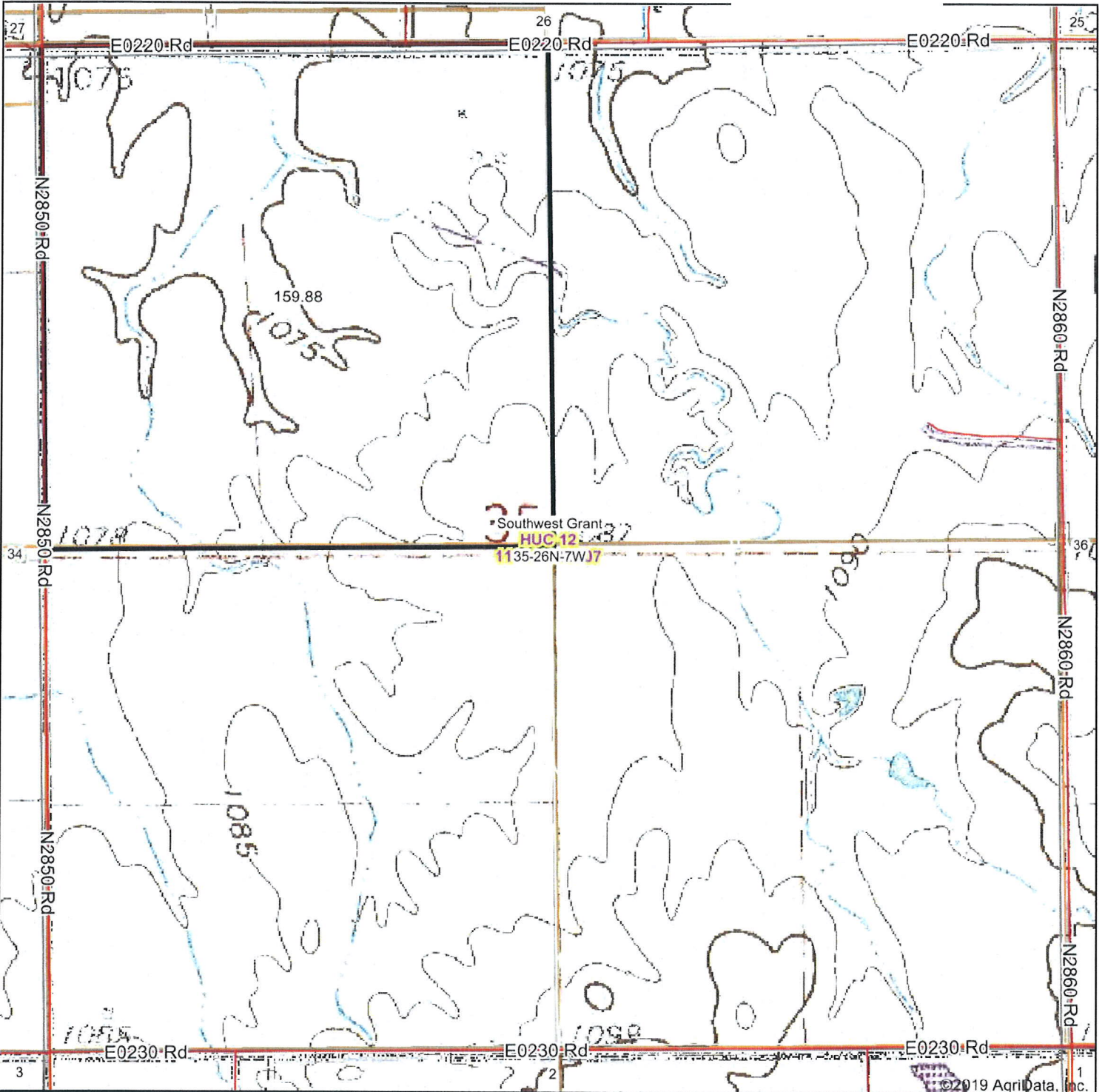
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T18



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map center: 36° 41' 15.95, -97° 55' 14.8

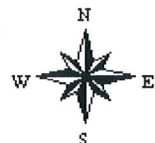


Maps Provided By



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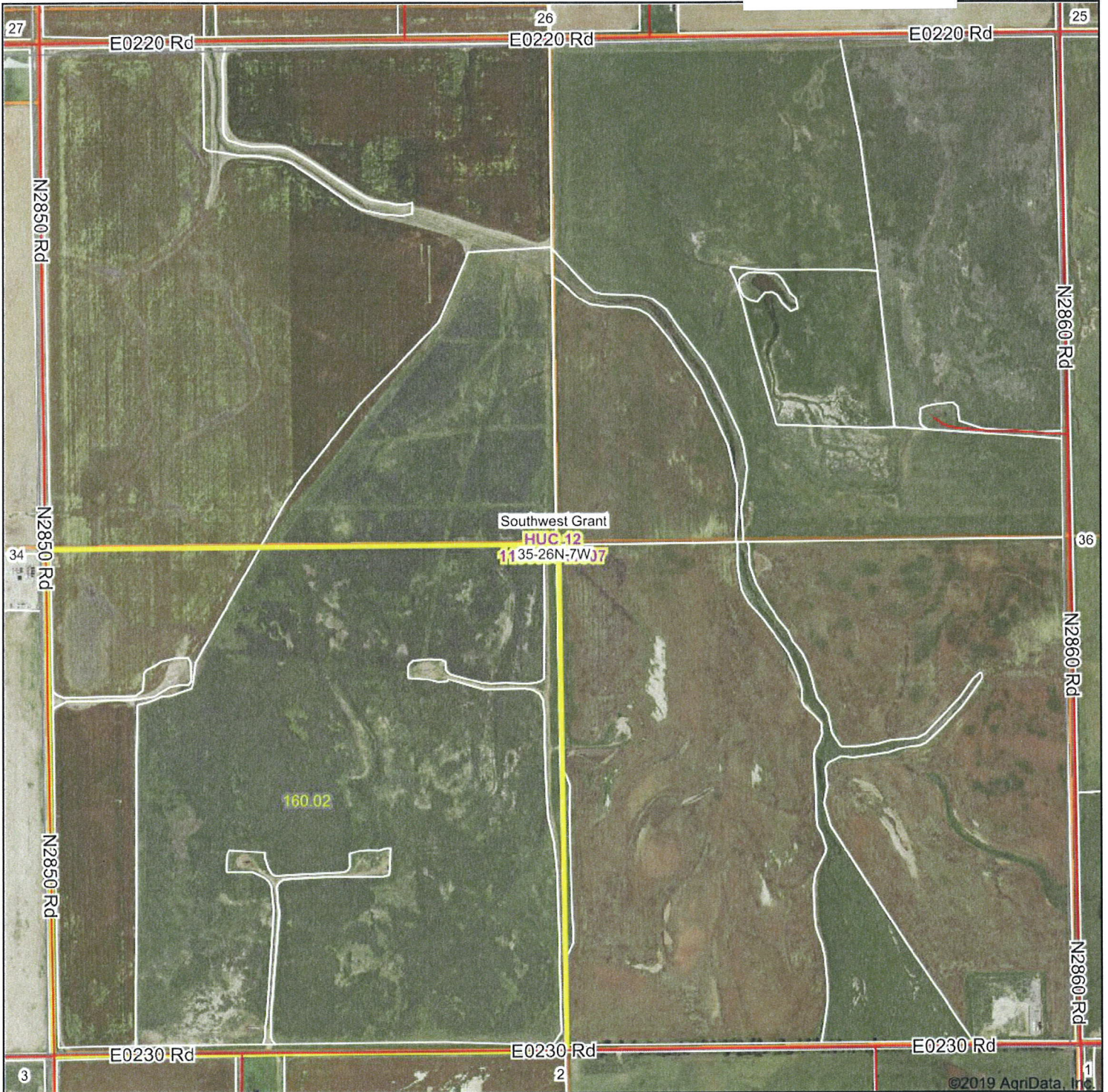
35-26N-7W
Grant County
Oklahoma



7/11/2019

Aerial Map

T19

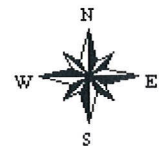


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Map Center: 36° 41' 15.85, -97° 55' 14.8



35-26N-7W
Grant County
Oklahoma



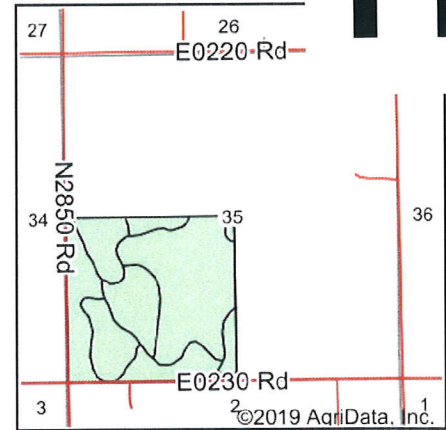
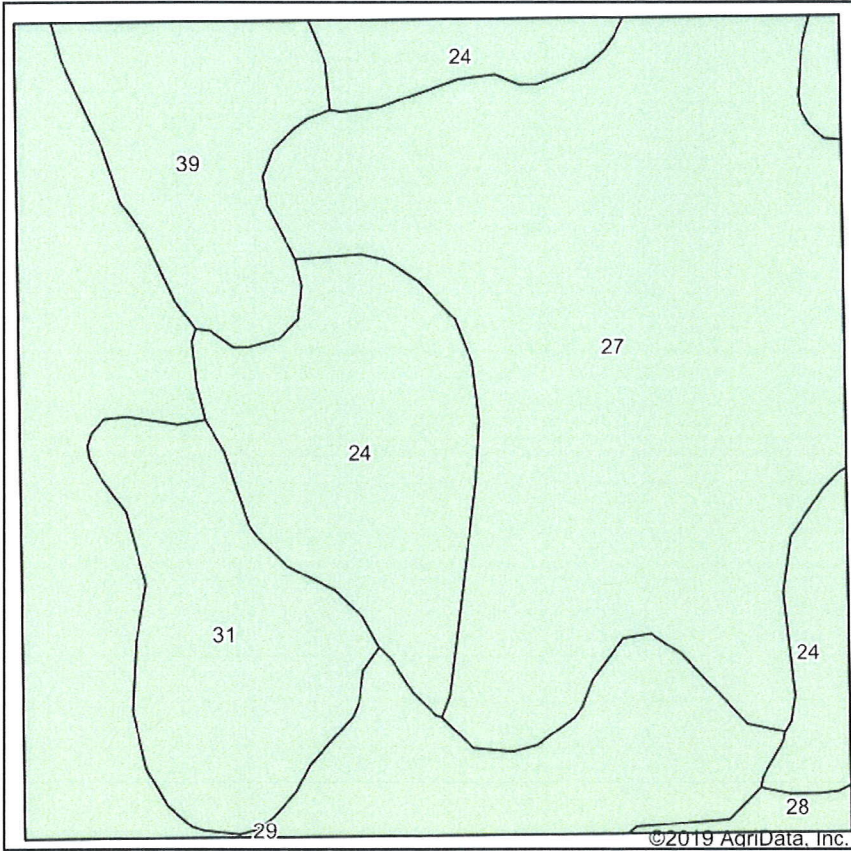
Maps Provided By:
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 CUSTOMIZED ONLINE MAPPING
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T19



State: **Oklahoma**
 County: **Grant**
 Location: **35-26N-7W**
 Township: **Southwest Grant**
 Acres: **160.02**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Water Table	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley	Alfalfa hay	Tall wheatgrass	Oats	So hay
27	Kingfisher-Wakita complex, 1 to 3 percent slopes	63.25	39.5%	2.5ft.	Ils		4111	28	4	4	26					2	2
29	Kirkland silt loam, 0 to 1 percent slopes, cool	36.69	22.9%	> 6.5ft.	Ils	Ils	3890	35	4	5	34	22	4				34
24	Kingfisher silt loam, 1 to 3 percent slopes	28.25	17.7%	> 6.5ft.	IIIe		4662	40	5	5	30	13	2				2
31	Kirkland-Pawhuska complex, 0 to 3 percent slopes	16.08	10.0%	> 6.5ft.	Ils	Ils	3673	27	4	4	29	51	2				23
39	Pond Creek silt loam, 0 to 1 percent slopes	14.44	9.0%	> 6.5ft.	Ie	Ie	4747	50	5	5	35	58		4			
28	Kingfisher-Wakita complex, 3 to 5 percent slopes, eroded	1.31	0.8%	2.5ft.	IVe		0	21	4	3	21					1	
Weighted Average							4137.3	33.6		4.3	4.5	29.6	17.7	1.5	0.4	0.8	11.3

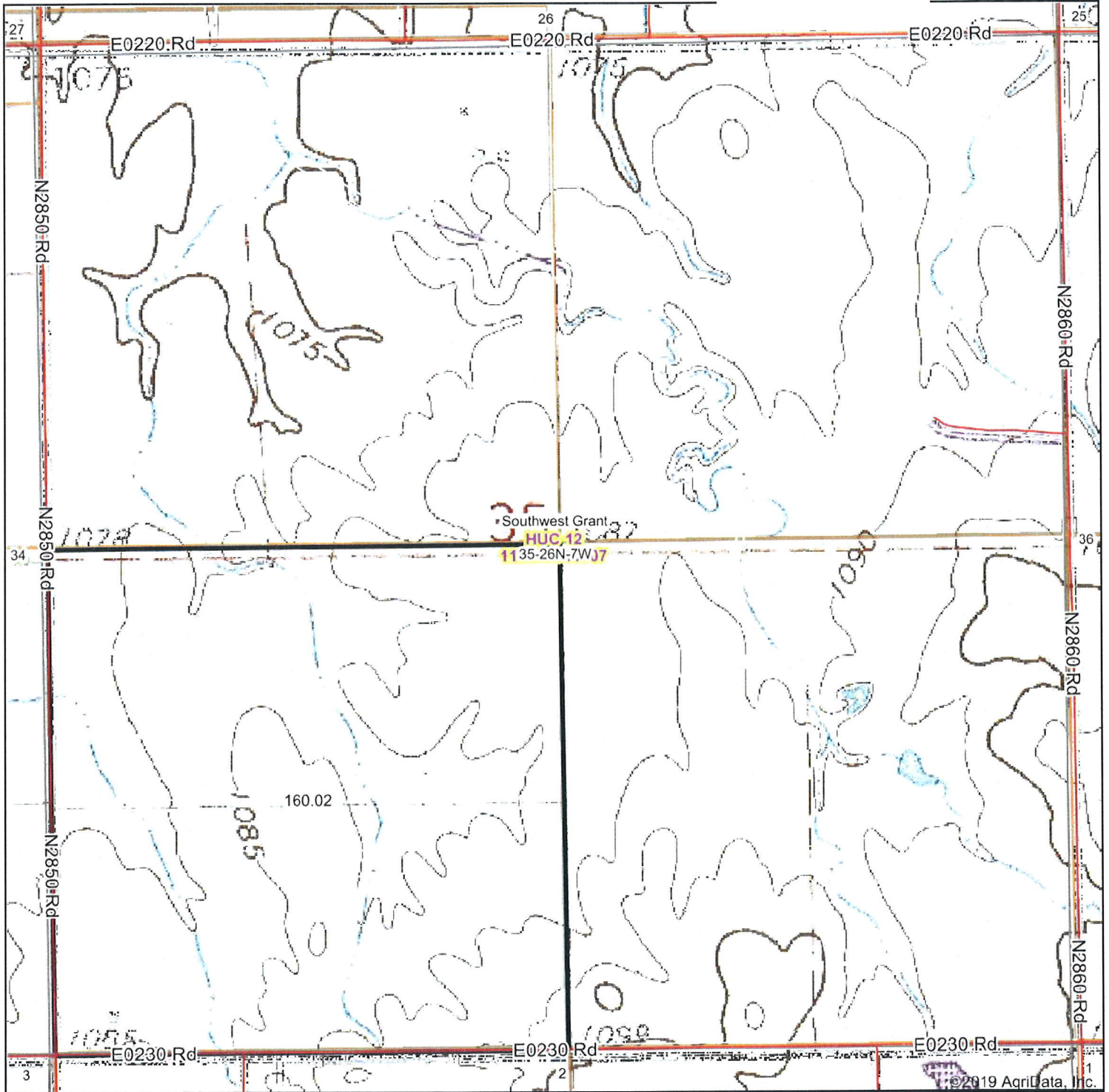
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

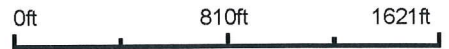
Soils data provided by USDA and NRCS.

Topography Map

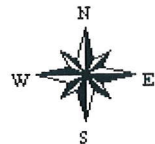
T19



map center: 36° 41' 15.85, -97° 55' 14.8



35-26N-7W
Grant County
Oklahoma



7/11/2019



Maps Provided By



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Map Center: 36° 42' 48.79, -97° 56' 17.32

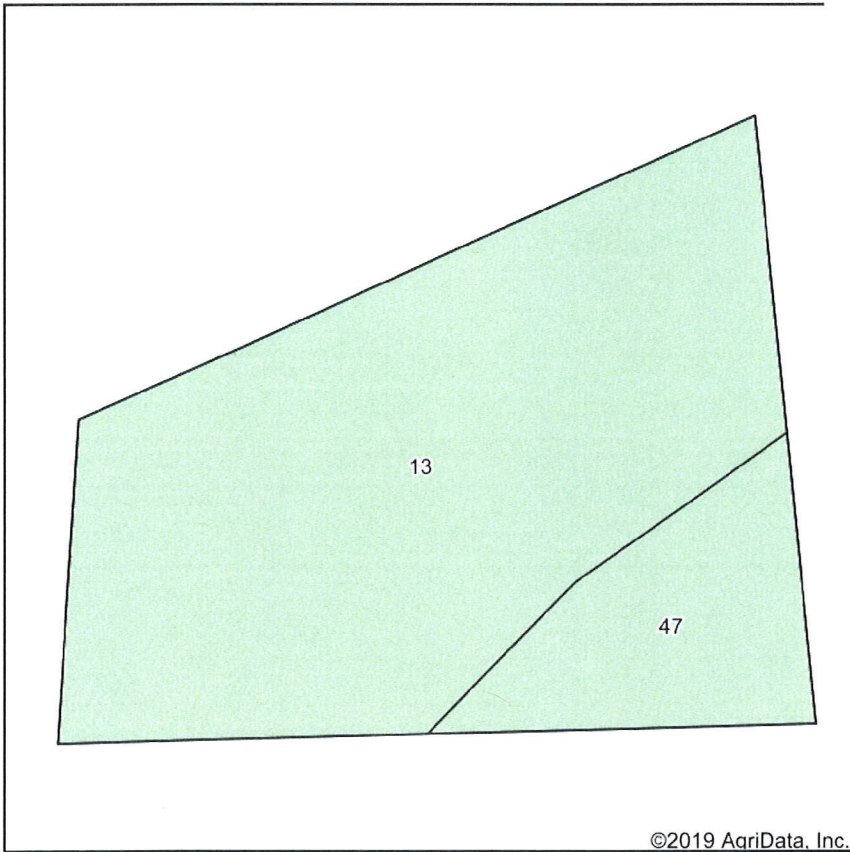


22-26N-7W
Grant County
Oklahoma



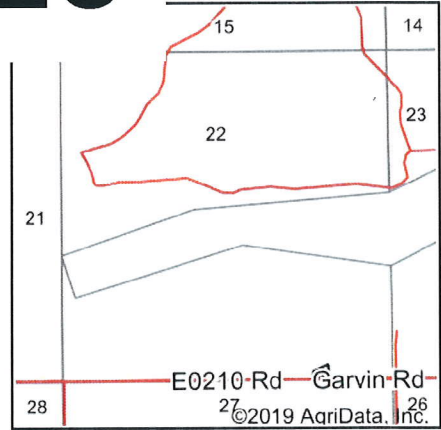
7/11/2019

Soils Map T20



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Soils data provided by USDA and NRCS.



State: **Oklahoma**
 County: **Grant**
 Location: **22-26N-7W**
 Township: **Southwest Grant**
 Acres: **0.93**
 Date: **7/11/2019**



Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Weeping lovegrass	Wheat	Alfalfa hay	Grain sorghum	Peanuts	Cotton lint	Soybeans	*n NCCPI Overall	*n N/C
13	Goodnight loamy fine sand, 3 to 5 percent slopes	0.76	81.7%	IVe	3031		4	4	20		5	108	20			27
47	Reinach very fine sandy loam, 0 to 1 percent slopes, rarely flooded	0.17	18.3%	Is	6100		9	6	44	5	59	51	25		1	68
Weighted Average					3592	4.9	1.1	3.3	24.4	0.9	14.9	97.6	20.9	0.2	*n 34.5	*

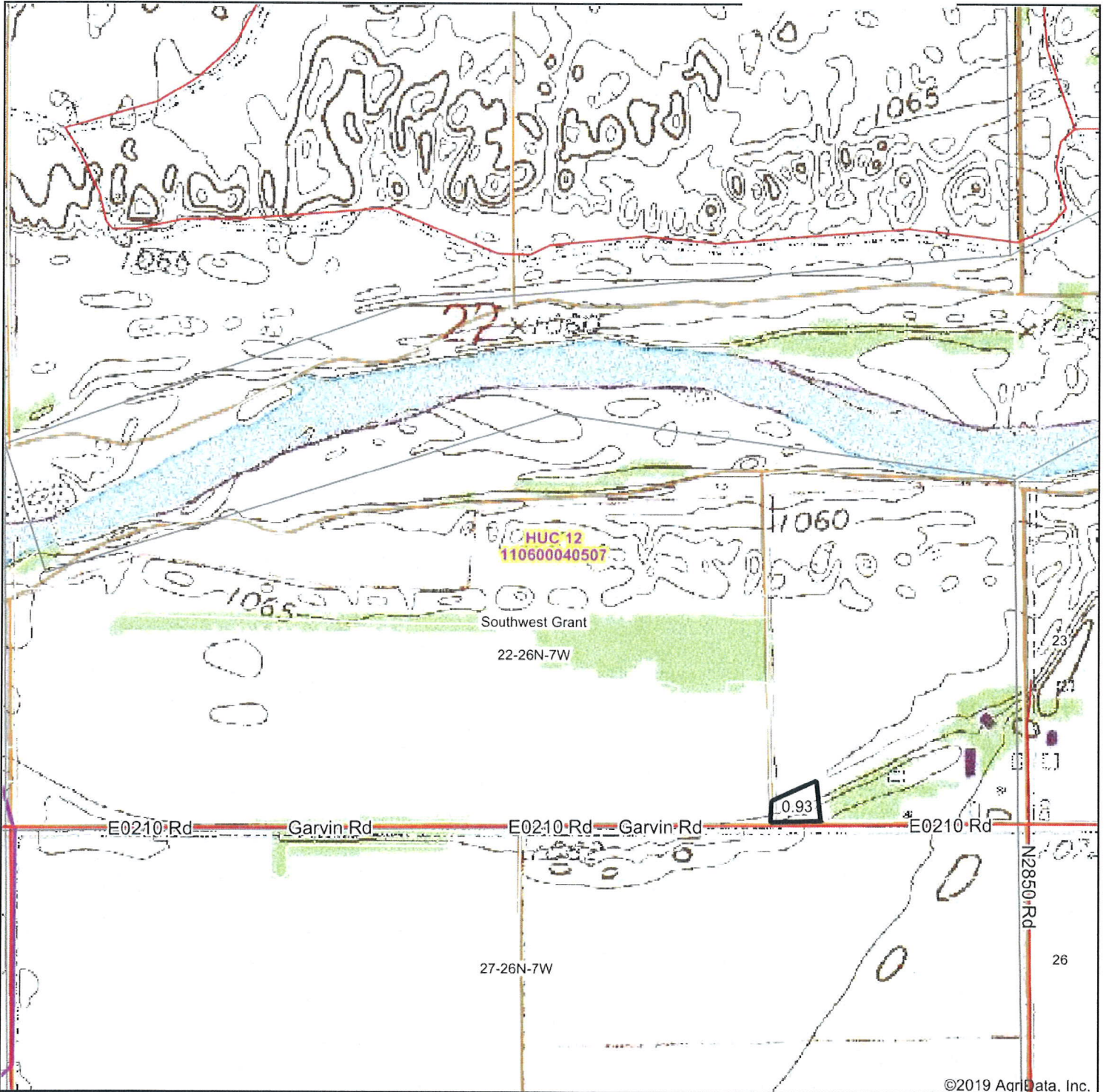
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T20



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map center: 36° 42' 48.79, -97° 56' 17.32



22-26N-7W
Grant County
Oklahoma



7/11/2019

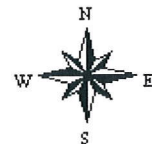
Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA



Map Center: 36° 42' 54.01, -97° 56' 16.29



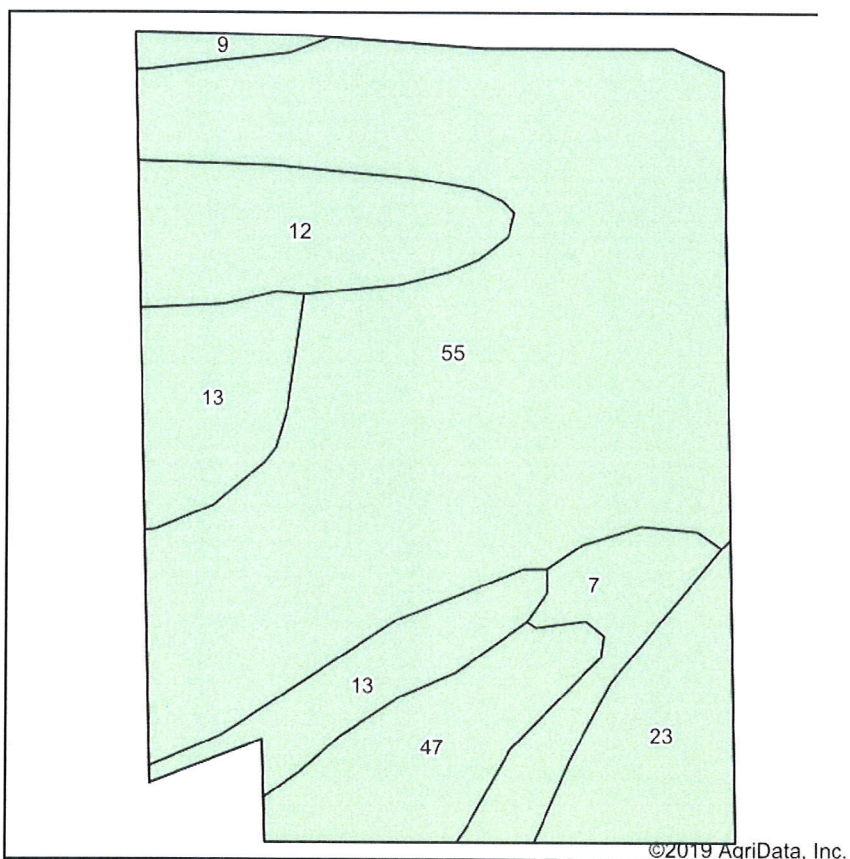
22-26N-7W
Grant County
Oklahoma



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7/11/2019

Soils Map T21



Soils data provided by USDA and NRCS



State: **Oklahoma**
 County: **Grant**
 Location: **22-26N-7W**
 Township: **Southwest Grant**
 Acres: **53.88**
 Date: **7/11/2019**

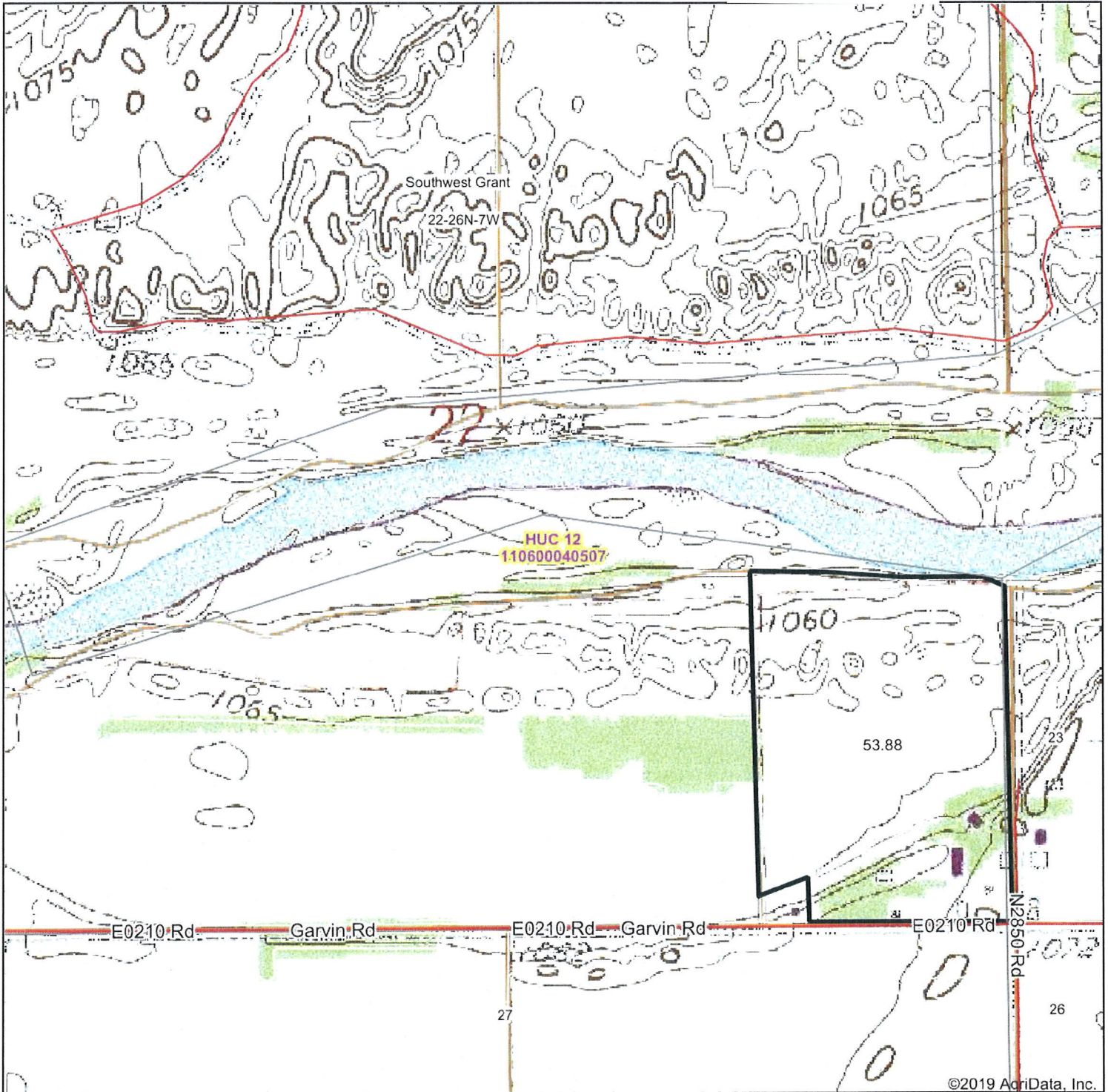


Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Weeping lovegrass	Alfalfa hay	Cotton lint	Grain sorghum	Peanuts	Wheat	Soybeans	Watermel
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	30.79	57.1%	IIIe	5995	7	5			383	49	1505	34		
13	Goodnight loamy fine sand, 3 to 5 percent slopes	6.15	11.4%	IVe	3031	4		4		20	5	108	20		
12	Goodnight fine sand, 5 to 15 percent slopes	5.03	9.3%	Vle	3035	3		4		21	3	80	2		
47	Reinach very fine sandy loam, 0 to 1 percent slopes, rarely flooded	4.29	8.0%	Is	6100	9	6		5	25	59	51	44	1	
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	4.13	7.7%	Ile	6052	8			5	60	54	102	34	2	
7	Dale silt loam, 3 to 8 percent slopes, rarely flooded	2.94	5.5%	IVe	6100	7	6	1	4	50	51		38		

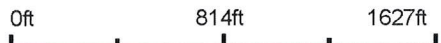
T21

Topography Map

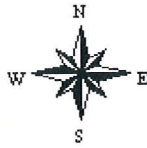


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map center: 36° 42' 54.01, -97° 56' 16.29

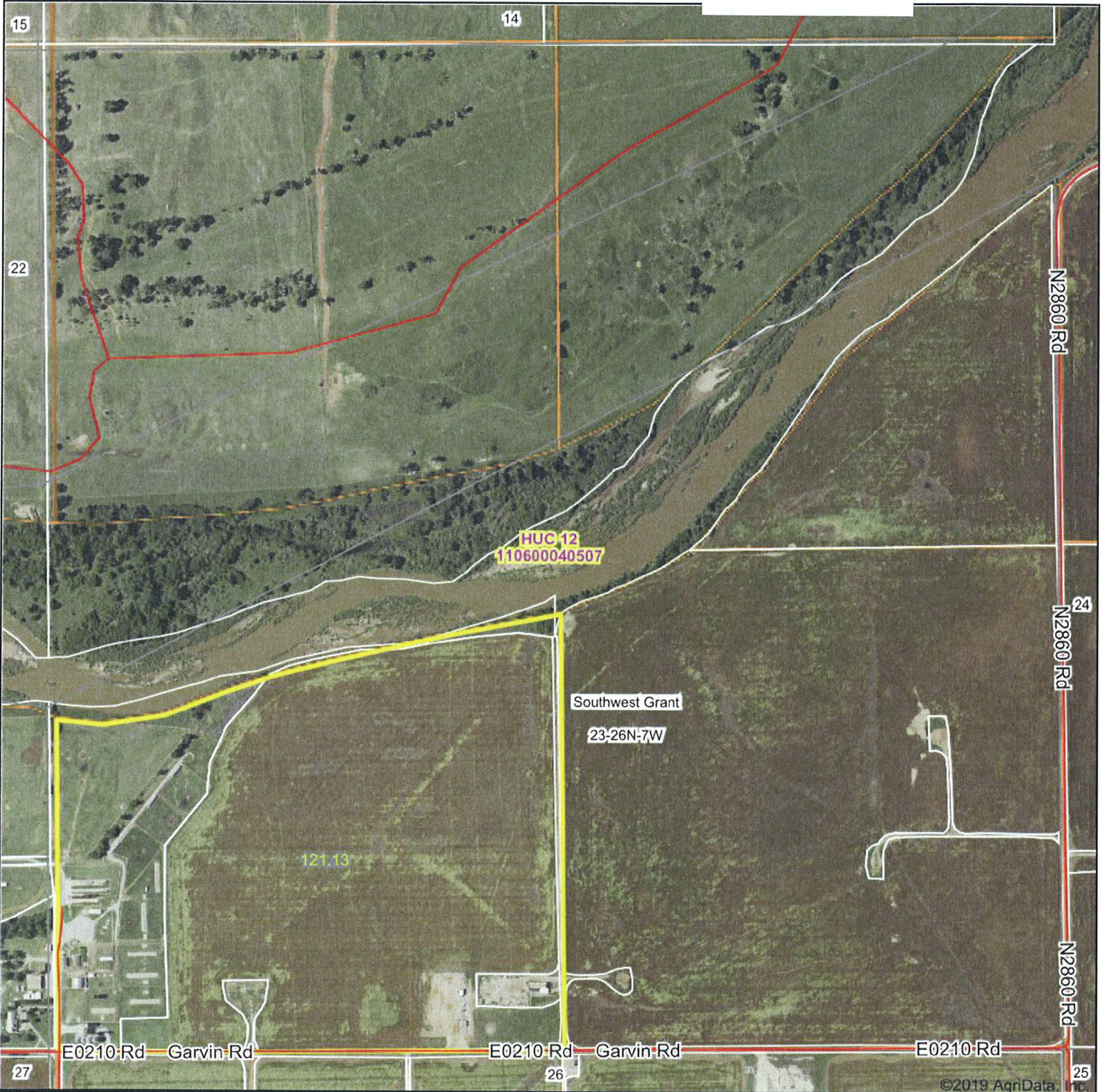


22-26N-7W
Grant County
Oklahoma



7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA



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Map Center: 36° 43' 0.28, -97° 55' 15.36



23-26N-7W
Grant County
Oklahoma



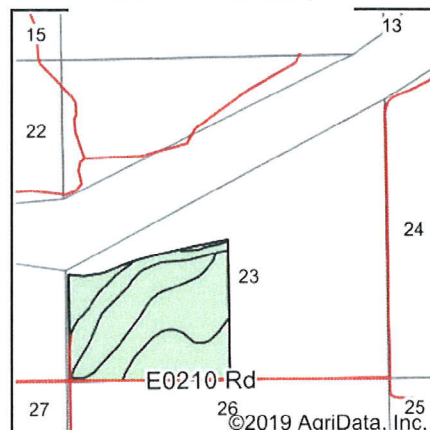
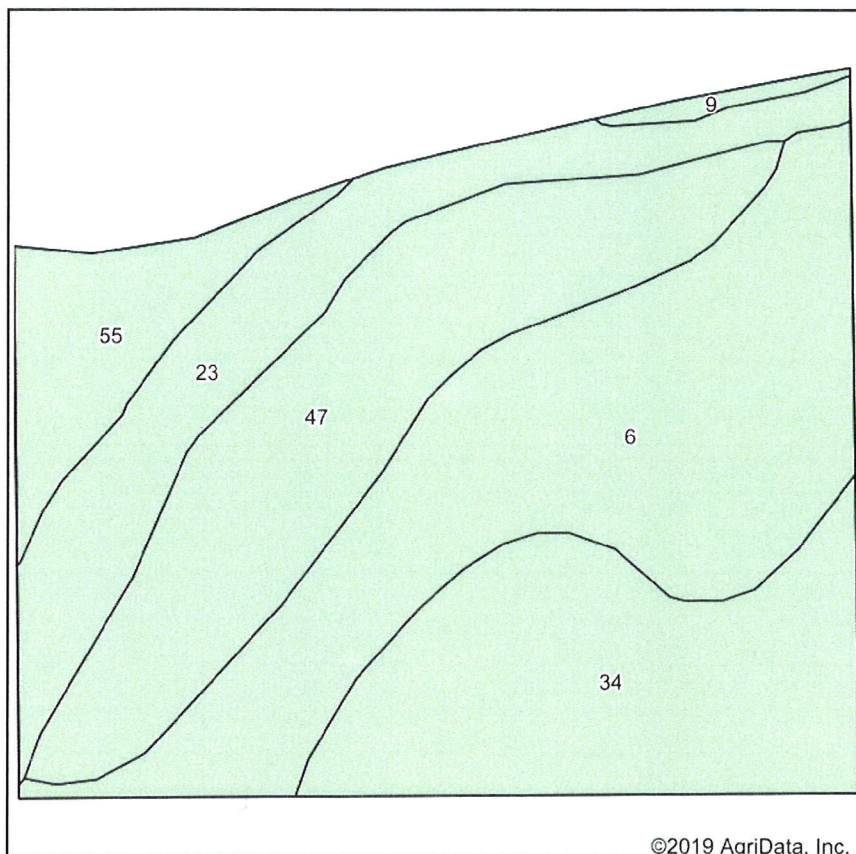
Maps Provided By
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T22



State: **Oklahoma**
 County: **Grant**
 Location: **23-26N-7W**
 Township: **Southwest Grant**
 Acres: **121.13**
 Date: **7/11/2019**



Maps Provided By



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Soils data provided by USDA and NRCS.

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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Alfalfa hay	Grain sorghum	Wheat	Cotton lint	Peanuts	Soybeans	Introduced bluestem	Small grains grazeout	Caucasian bluestem
6	Dale silt loam, 0 to 1 percent slopes, rarely flooded	39.23	32.4%	Iw	6100	9	6	69	35	475	1615	29			
47	Reinach very fine sandy loam, 0 to 1 percent slopes, rarely flooded	28.14	23.2%	Is	6100	9	5	59	44	25	51	1	6		
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	26.48	21.9%	Is	6095	7	5	53	39	50	175	3	6		
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	17.50	14.4%	Ile	6052	8	5	54	34	60	102	2			
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	8.85	7.3%	Ille	5995	7		49	34	383	1505		5	5	
9	Gaddy fine sand, 0 to 1 percent slopes, frequently flooded	0.93	0.8%	Vw	4225	4							2		
Weighted Average					6069.9	8.2	4.9	59	37.5	207.2	697.8	10.6	3.1	0.4	0

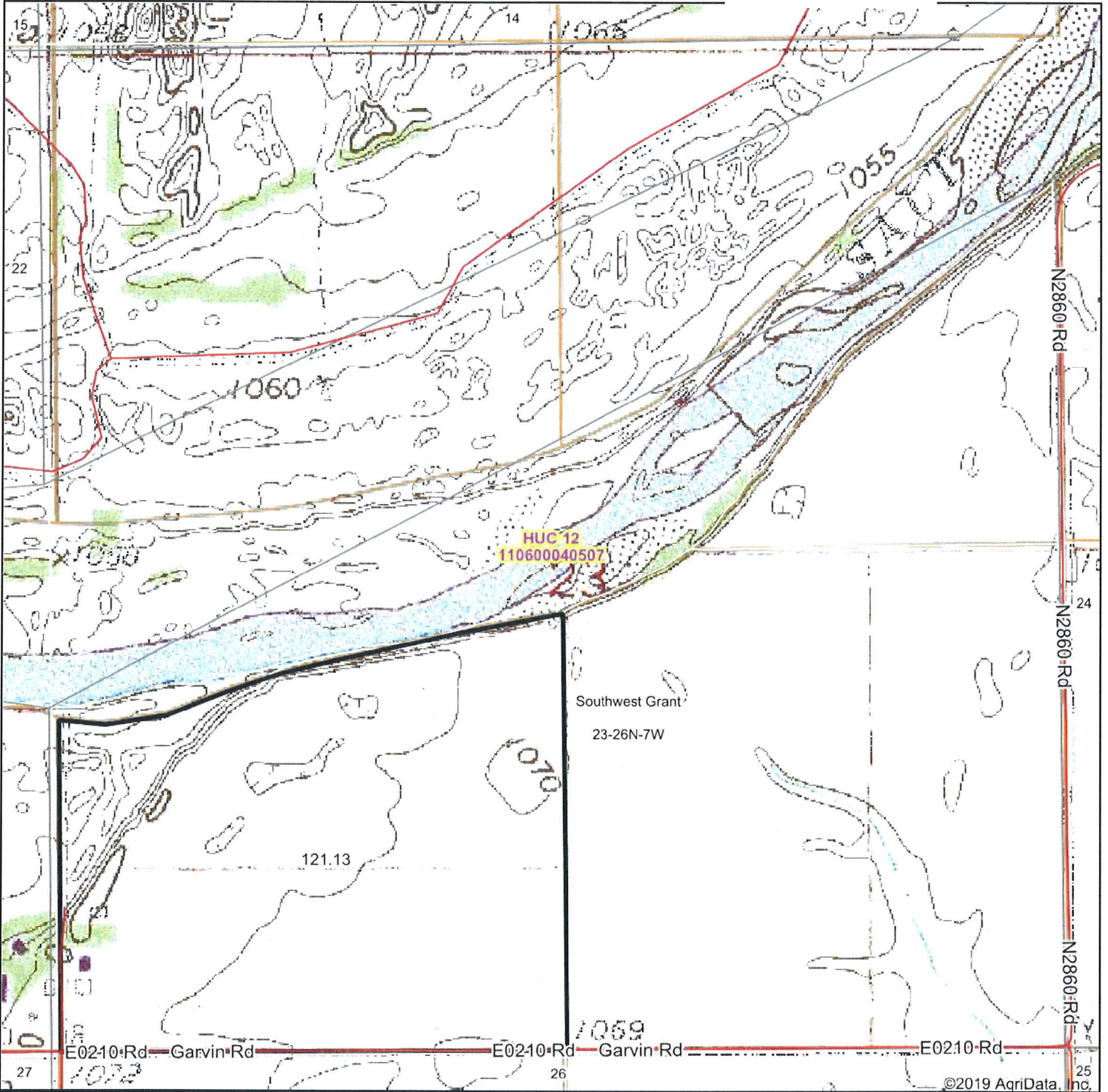
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T22

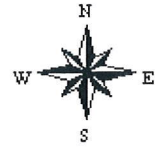


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map center: 36° 43' 0.28, -97° 55' 15.36

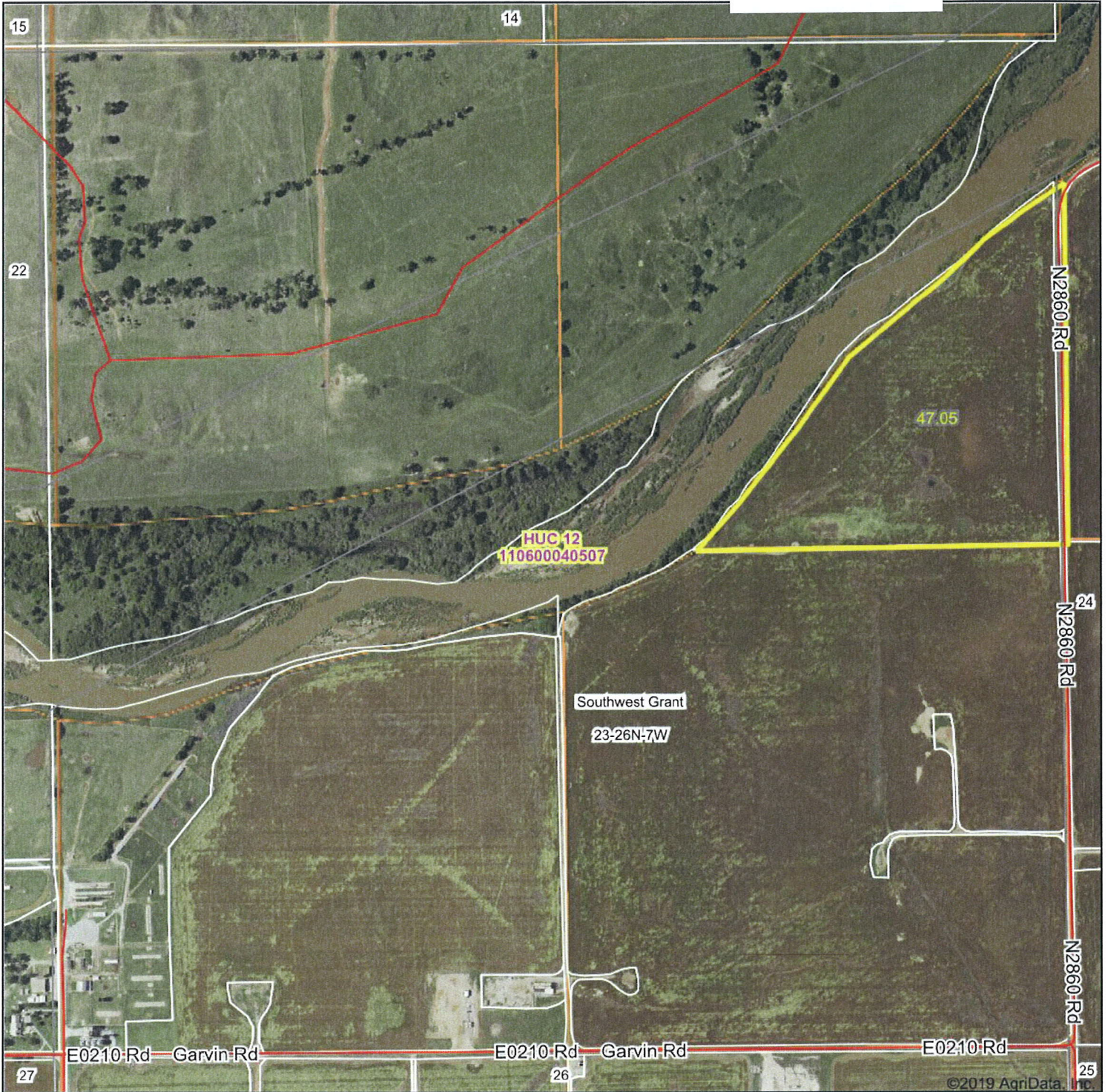


23-26N-7W
Grant County
Oklahoma



7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA



Map Center: 36° 43' 0.28, -97° 55' 15.36



23-26N-7W
Grant County
Oklahoma



7/11/2019



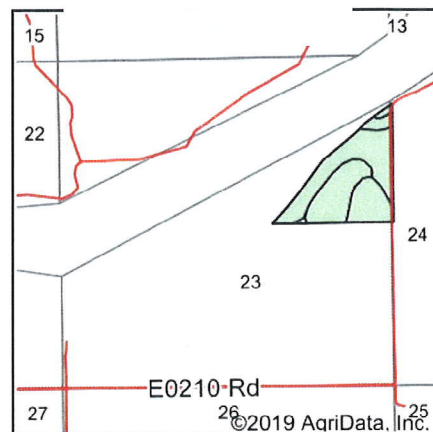
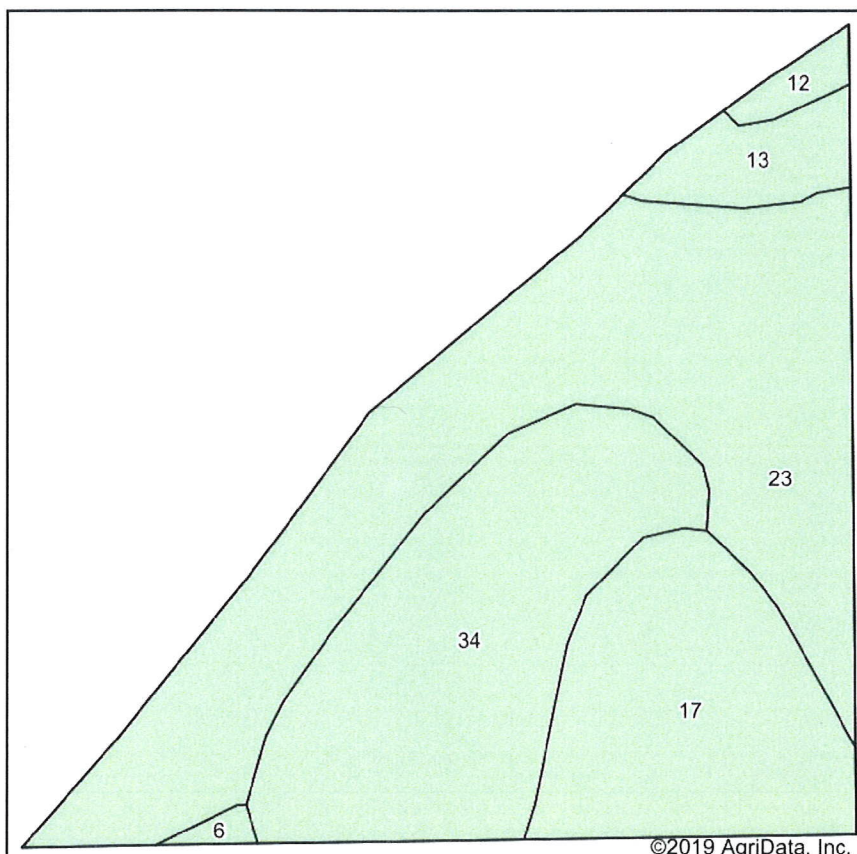
Maps Provided By:

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Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T23



State: **Oklahoma**
 County: **Grant**
 Location: **23-26N-7W**
 Township: **Southwest Grant**
 Acres: **47.05**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

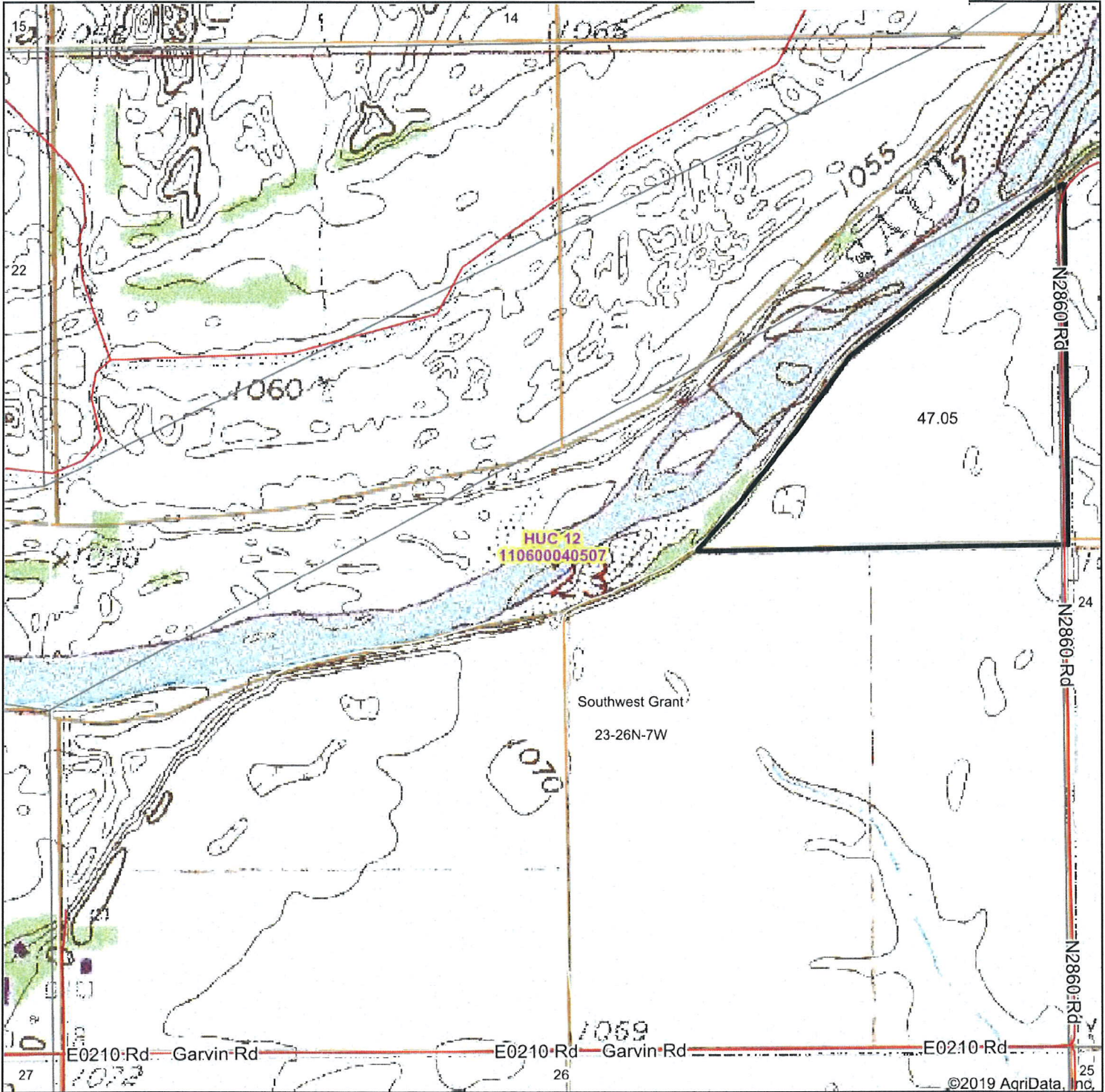
Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Weeping lovegrass	Alfalfa hay	Cotton lint	Grain sorghum	Peanuts	Wheat	Caucasia bluestem
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	21.23	45.1%	Ile	6052	8				5	60	54	102	34	
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	13.51	28.7%	Is	6095	7	6			5	50	53	175	39	
17	Grant silt loam, 1 to 3 percent slopes	9.26	19.7%	Ile	4579	6	6	4		2	8	48	51	34	
13	Goodnight loamy fine sand, 3 to 5 percent slopes	2.11	4.5%	IVe	3031	4			4		20	5	108	20	
12	Goodnight fine sand, 5 to 15 percent slopes	0.68	1.4%	Vle	3035	3			4		21	3	80	2	
6	Dale silt loam, 0 to 1 percent slopes, rarely flooded	0.26	0.6%	Iw	6100	9				6	475	69	1615	35	
Weighted Average					5595.6	7.1	2.9	0.8	0.2	4.1	46.8	49.7	121.2	34.4	

*n: The aggregation method is "Weighted Average using major components"
 *c: Using Capabilities Class Dominant Condition Aggregation Method
 Soils data provided by USDA and NRCS.

Topography Map

T23



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map center: 36° 43' 0.28, -97° 55' 15.36



23-26N-7W
Grant County
Oklahoma

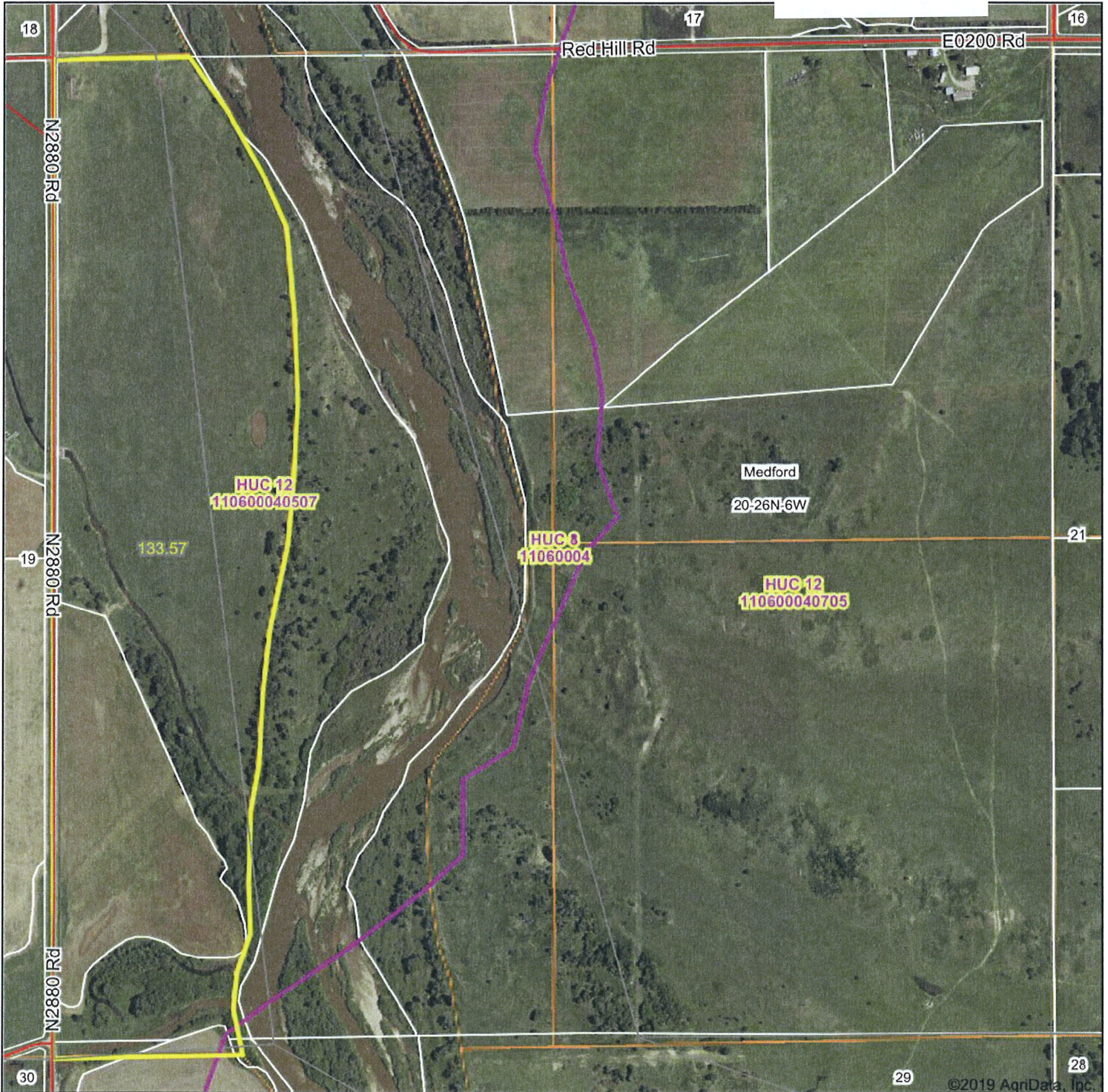


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

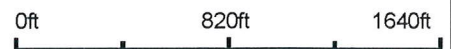
T24



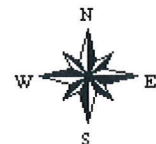
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Map Center: 36° 43' 0.74, -97° 52' 0.68



20-26N-6W
Grant County
Oklahoma



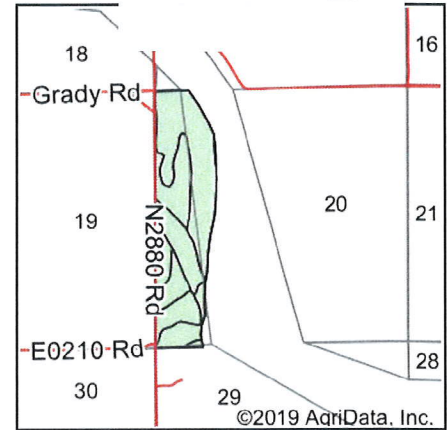
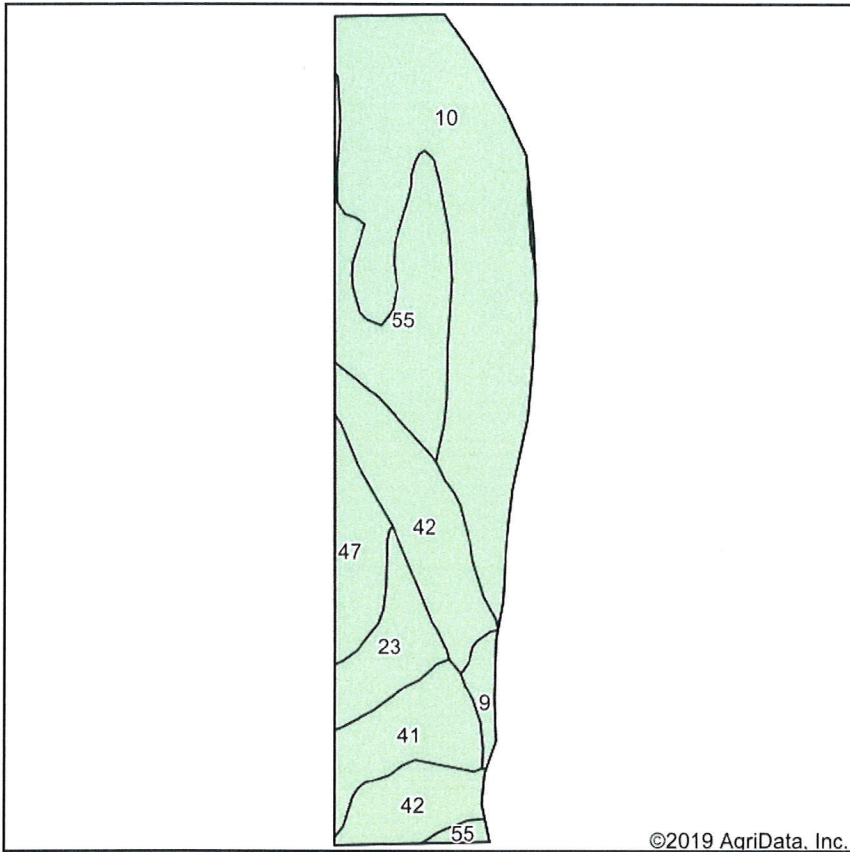
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T24



State: **Oklahoma**
 County: **Grant**
 Location: **20-26N-6W**
 Township: **Medford**
 Acres: **133.57**
 Date: **7/11/2019**

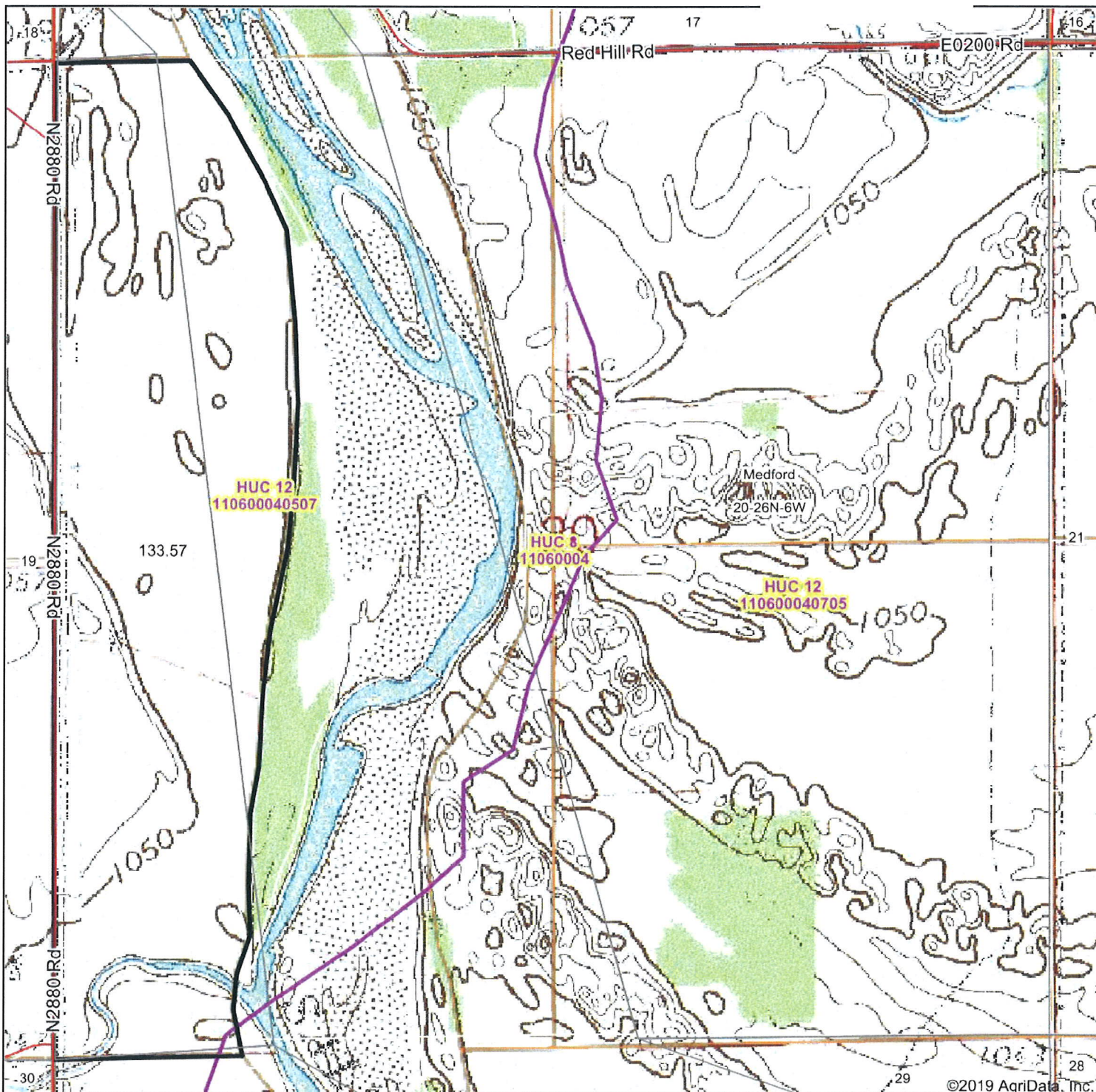


Soils data provided by USDA and NRCS.

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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Alfalfa hay	Grain sorghum	Improved bermudagrass	Wheat	Rye	Cotton lint	Peanuts	Soybeans	Introduced bluestem	Caucasian bluestem	Tall whe
10	Gaddy loamy fine sand, 0 to 1 percent slopes, occasionally flooded	57.40	43.0%	IIIe	4114	3	28		6	19	1					
42	Port and Pocasset soils, 0 to 1 percent slopes, frequently flooded	25.01	18.7%	Vw	6092		3		5	2			2	5		2
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	19.95	14.9%	IIIe	5995		49		7	34		383	1505		5	6
41	Port silt loam, 0 to 1 percent slopes, occasionally flooded	11.33	8.5%	IIw	6112	5	49		9	34		13	48			
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	8.89	6.7%	IIe	6052	5	54		8	34		60	102	2		



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map center: 36° 43' 0.74, -97° 52' 0.68



20-26N-6W
Grant County
Oklahoma



7/11/2019



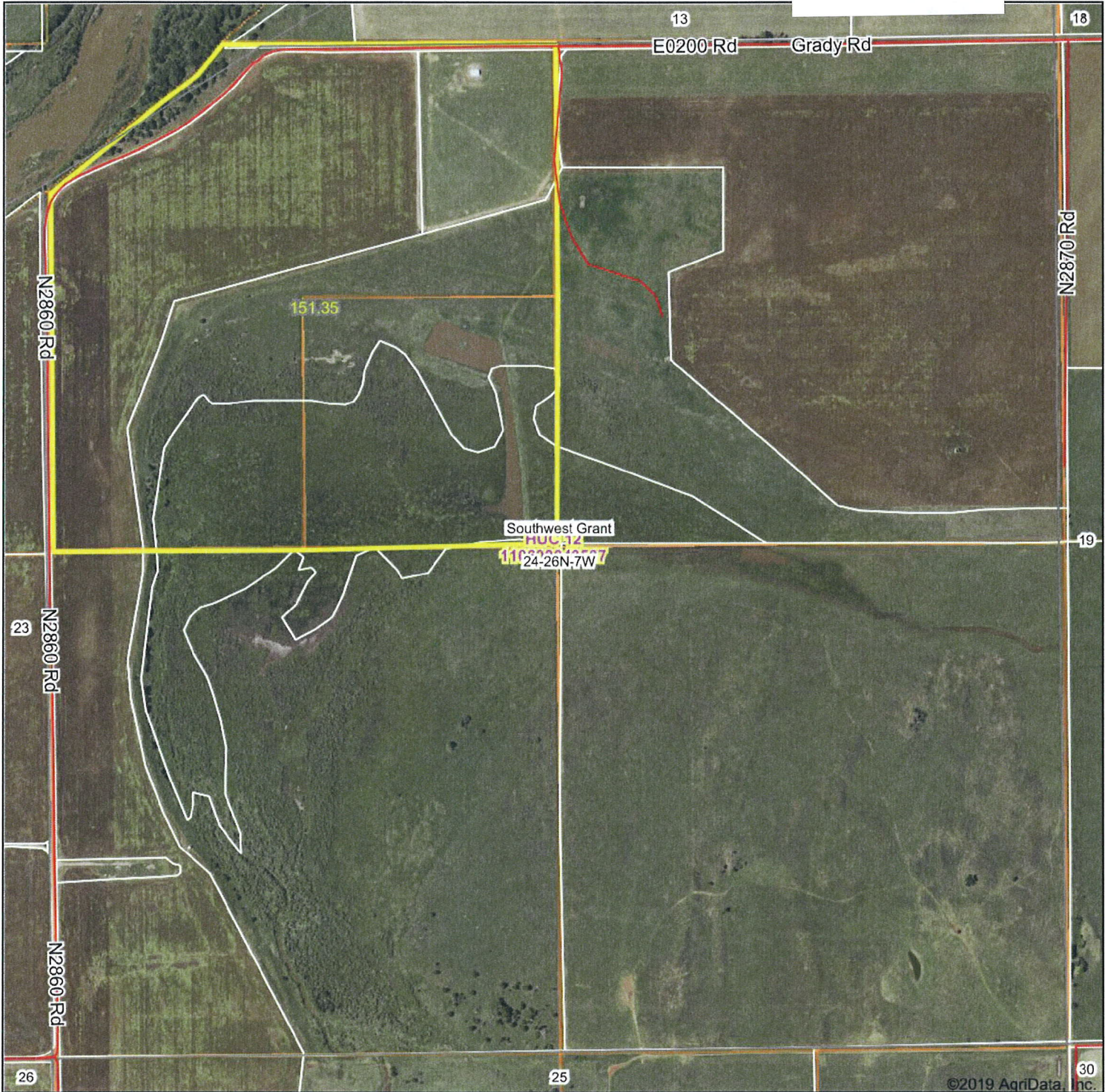
Maps Provided By



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Aerial Map

T25



Map Center: 36° 43' 0.21, -97° 54' 10.34



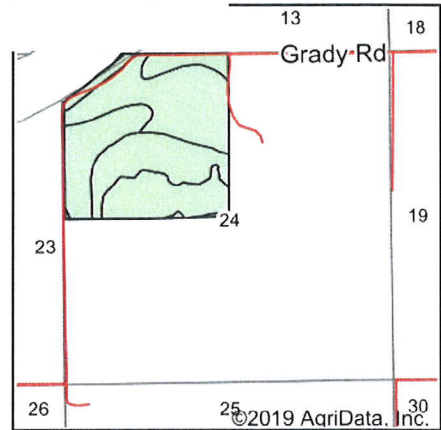
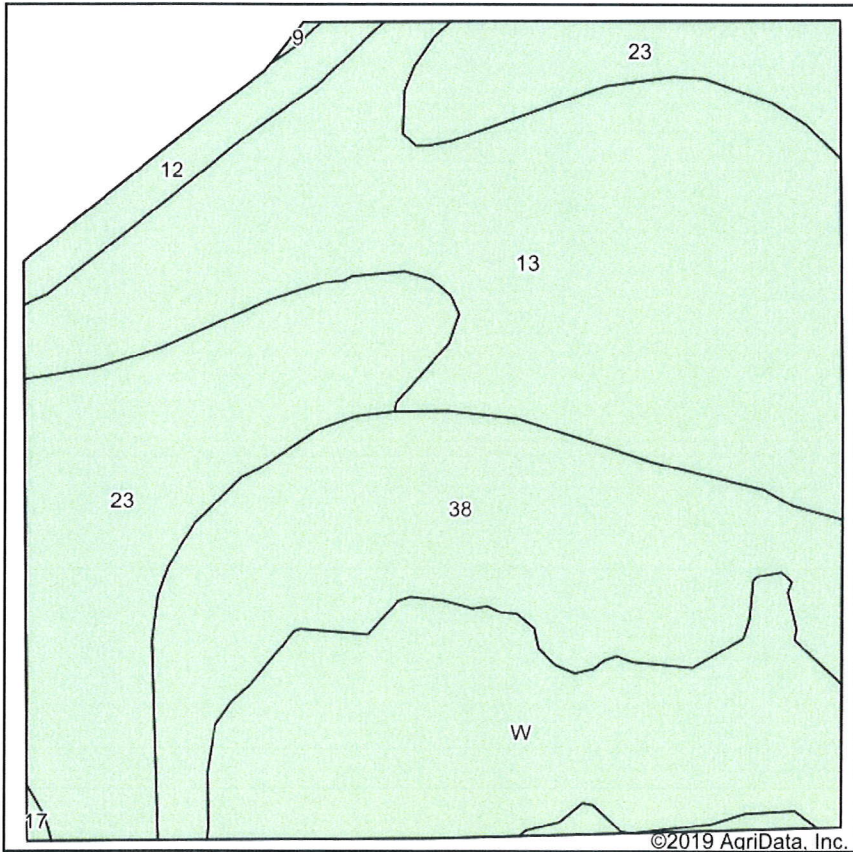
24-26N-7W
Grant County
Oklahoma



7/11/2019

Soils Map

T25



State: **Oklahoma**
 County: **Grant**
 Location: **24-26N-7W**
 Township: **Southwest Grant**
 Acres: **151.35**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Weeping lovegrass	Alfalfa hay	Cotton lint	Grain sorghum	Peanuts	Wheat	Caucas blueste
13	Goodnight loamy fine sand, 3 to 5 percent slopes	50.69	33.5%	IVe	3031	4			4		20	5	108	20	
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	33.98	22.5%	Ile	6052	8				5	60	54	102	34	
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	33.39	22.1%	VI s	3948	3	3	1		1	23	8		8	
W	Water	28.80	19.0%	VIII	0										
12	Goodnight fine sand, 5 to 15 percent slopes	4.19	2.8%	VIe	3035	3			4		21	3	80	2	
17	Grant silt loam, 1 to 3 percent slopes	0.19	0.1%	Ile	4579	6	6	4		2	8	48	51	34	
9	Gaddy fine sand, 0 to 1 percent slopes, frequently flooded	0.11	0.1%	Vvw	4225	4	2								
Weighted Average					3337.7	3.9	0.7	0.2	1.5	1.3	25.8	15.7	61.4	16.2	

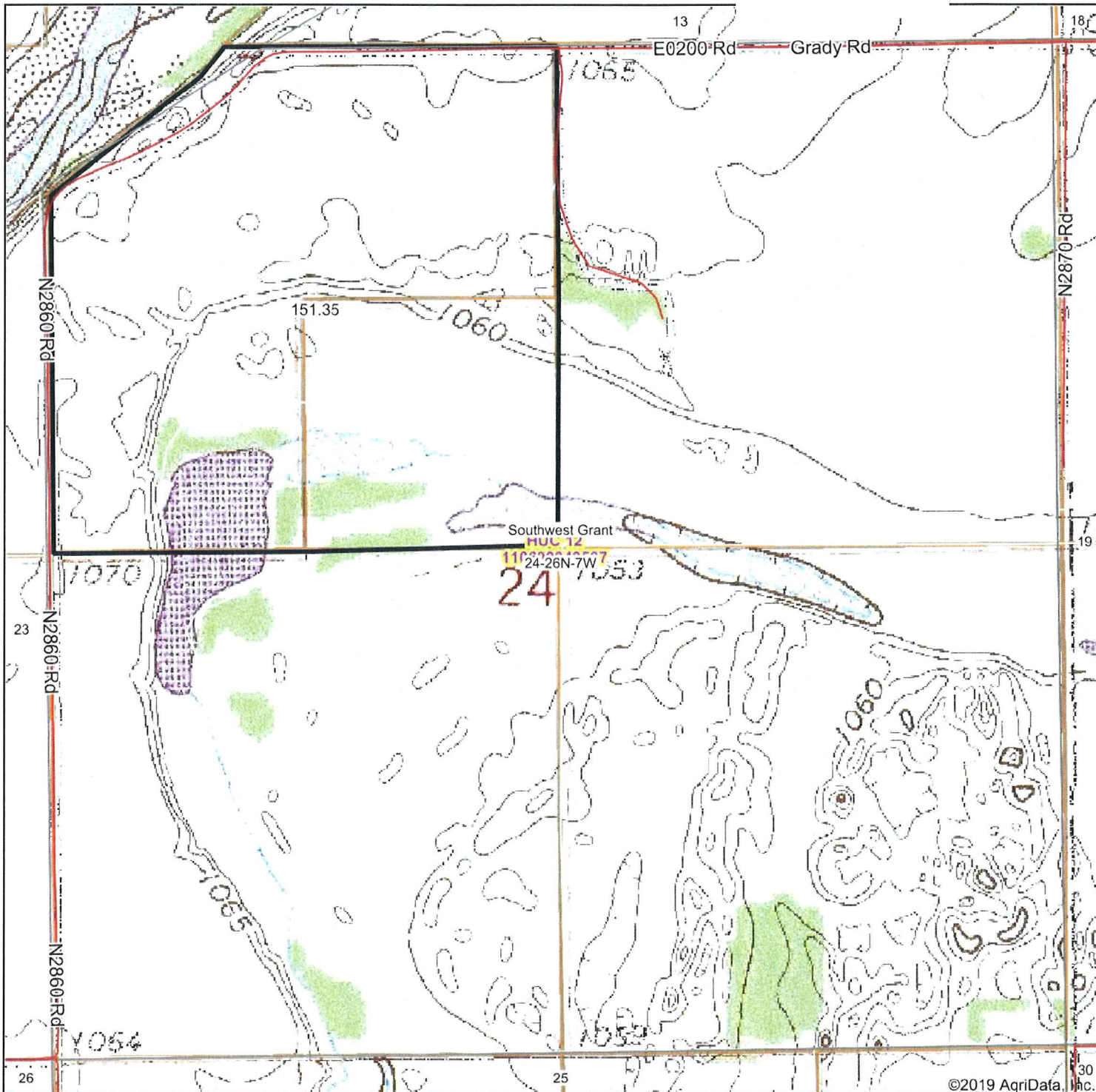
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T25



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map center: 36° 43' 0.21, -97° 54' 10.34



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24-26N-7W
Grant County
Oklahoma

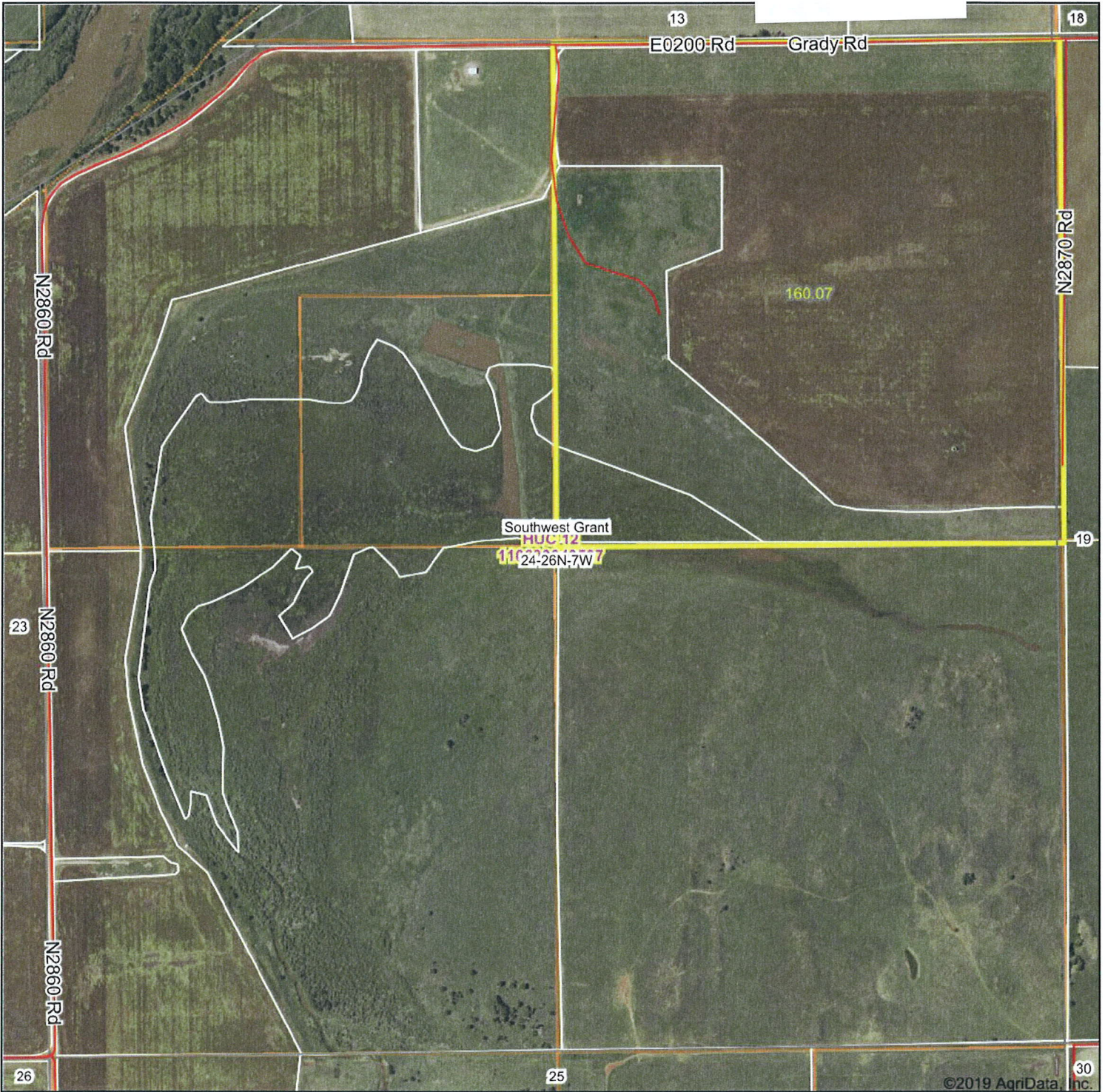


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Aerial Map

T26

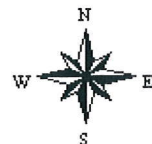


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Map Center: 36° 43' 0.16, -97° 54' 10.34



24-26N-7W
Grant County
Oklahoma



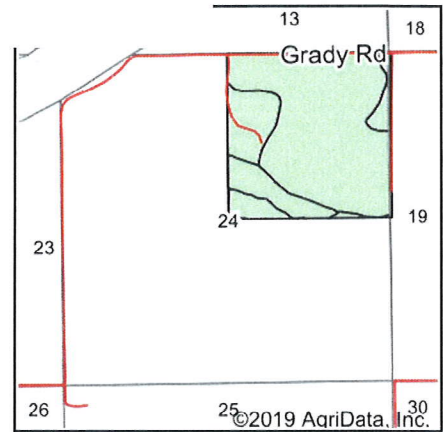
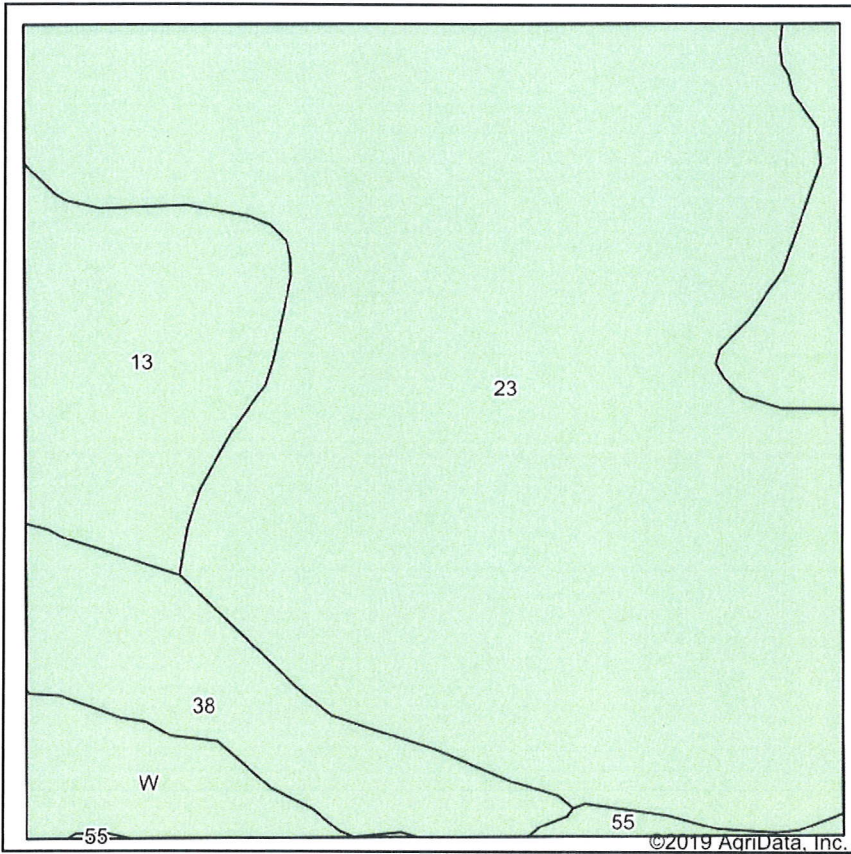
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Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T26



State: **Oklahoma**
 County: **Grant**
 Location: **24-26N-7W**
 Township: **Southwest Grant**
 Acres: **160.07**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Weeping lovegrass	Wheat	Alfalfa hay	Grain sorghum	Peanuts	Cotton lint	Soybean
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	112.58	70.3%	IIe	6052	8				34	5	54	102	60	
13	Goodnight loamy fine sand, 3 to 5 percent slopes	24.31	15.2%	IVe	3031	4			4	20		5	108	20	
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	14.94	9.3%	VI s	3948	3	3	1		8	1	8		23	
W	Water	7.00	4.4%	VIII	0										
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	1.24	0.8%	IIIe	5995	7	5			34		49	1505	383	
Weighted Average					5131.7	6.6	0.3	0.1	0.6	28	3.6	39.9	99.8	50.4	

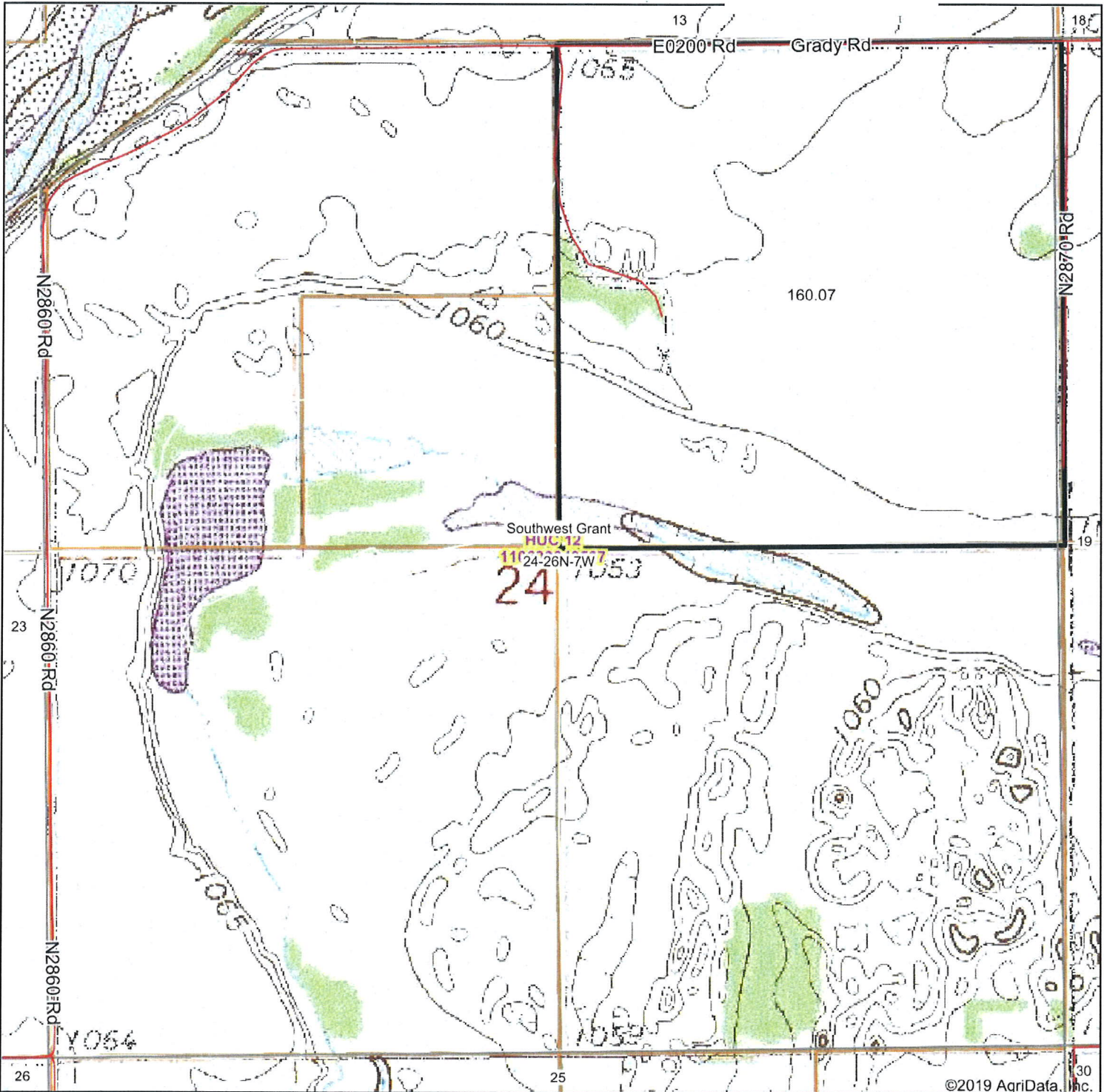
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T26



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map center: 36° 43' 0.16, -97° 54' 10.34

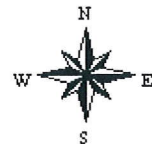


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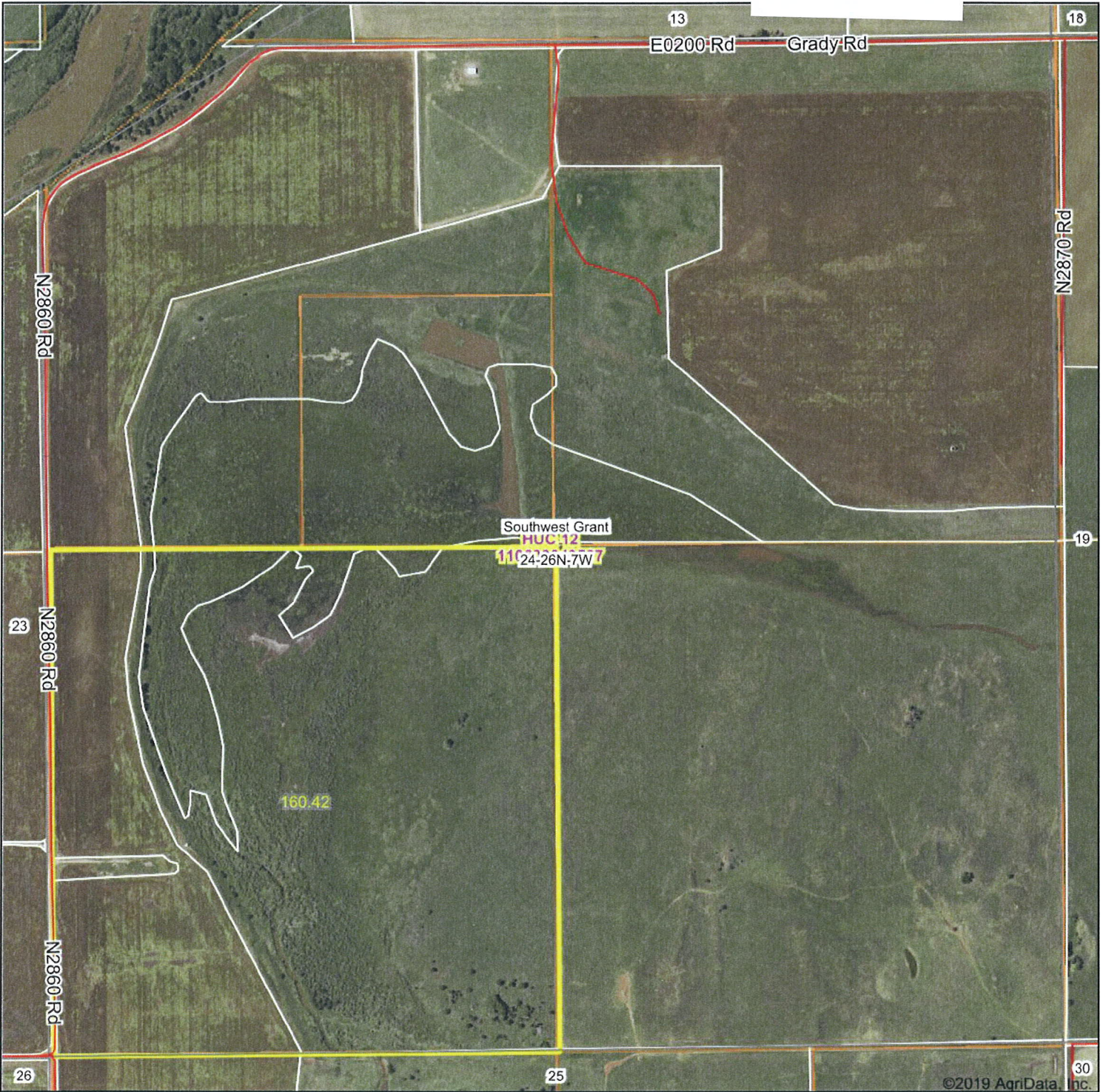
24-26N-7W
Grant County
Oklahoma



7/11/2019

Aerial Map

T27

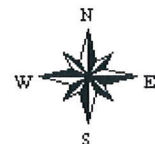


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Map Center: 36° 43' 0.13, -97° 54' 10.34



24-26N-7W
Grant County
Oklahoma

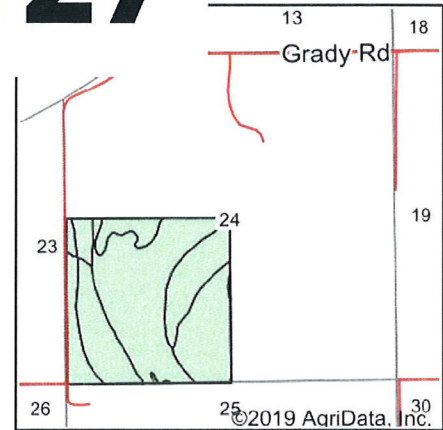
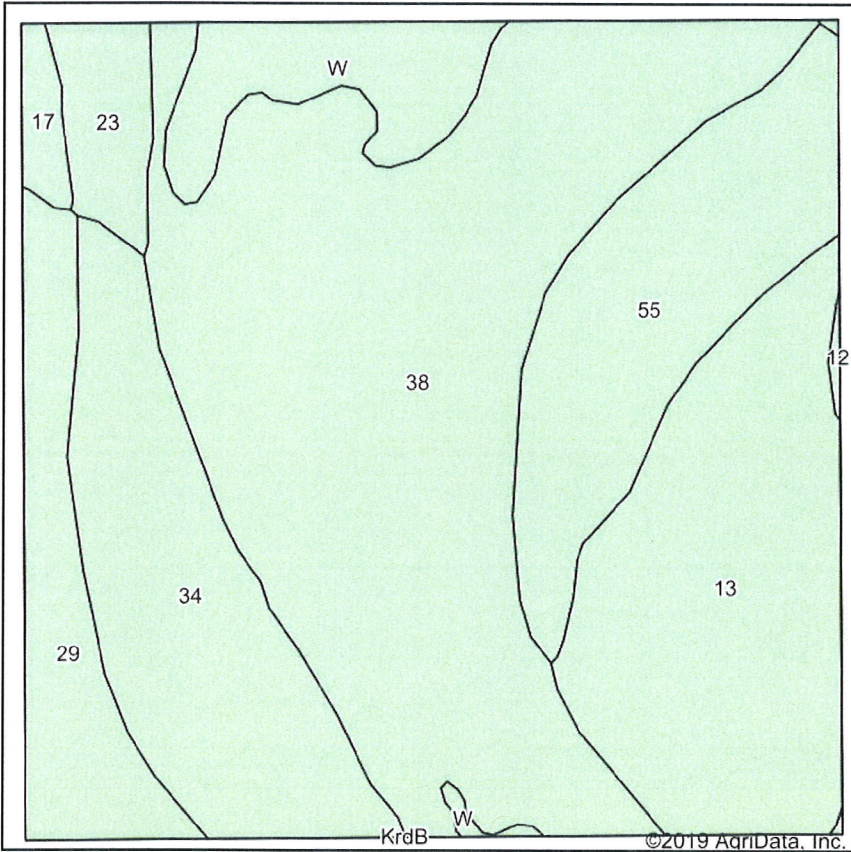


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T27



State: **Oklahoma**
 County: **Grant**
 Location: **24-26N-7W**
 Township: **Southwest Grant**
 Acres: **160.42**
 Date: **7/11/2019**



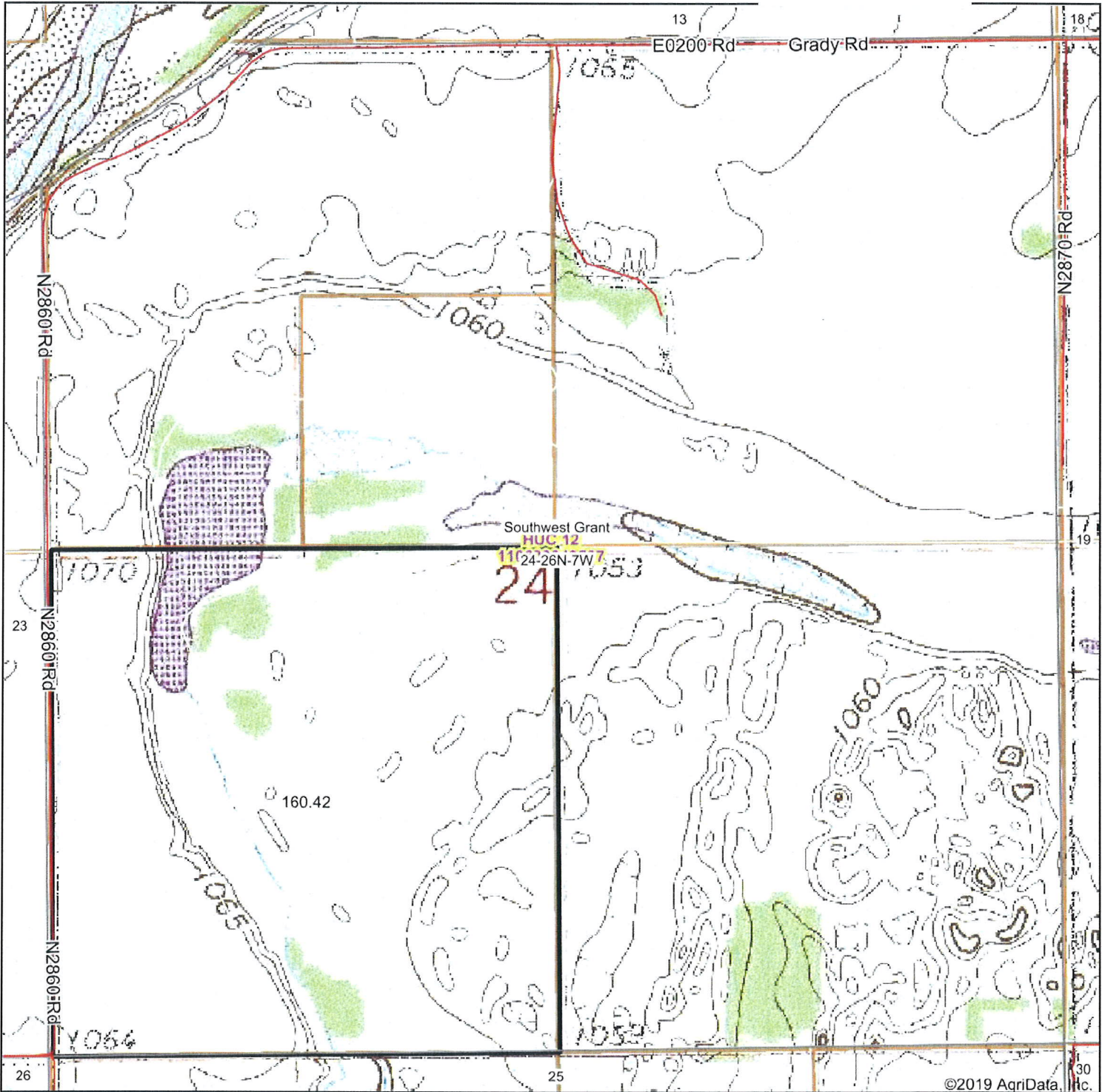
Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Sorghum hay	Wheat grazeout	Oats	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley	Alfalfa hay
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	63.94	39.9%	VIs		3948				8	3	3	8	23	5	1
13	Goodnight loamy fine sand, 3 to 5 percent slopes	28.34	17.7%	IVe		3031				5	4		20	20		
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	21.83	13.6%	Is		6095				53	7	6	39	50		5
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	20.38	12.7%	IIIe		5995				49	7	5	34	383		
29	Kirkland silt loam, 0 to 1 percent slopes, cool	11.29	7.0%	IIIs	IIIs	3890	5	4	34	35	4	5	34	22	4	
W	Water	8.31	5.2%	VIII		0										
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	4.39	2.7%	IIe		6052				54	8		34	60		5

Topography Map

T27



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map center: 36° 43' 0.13, -97° 54' 10.34

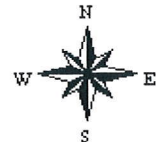


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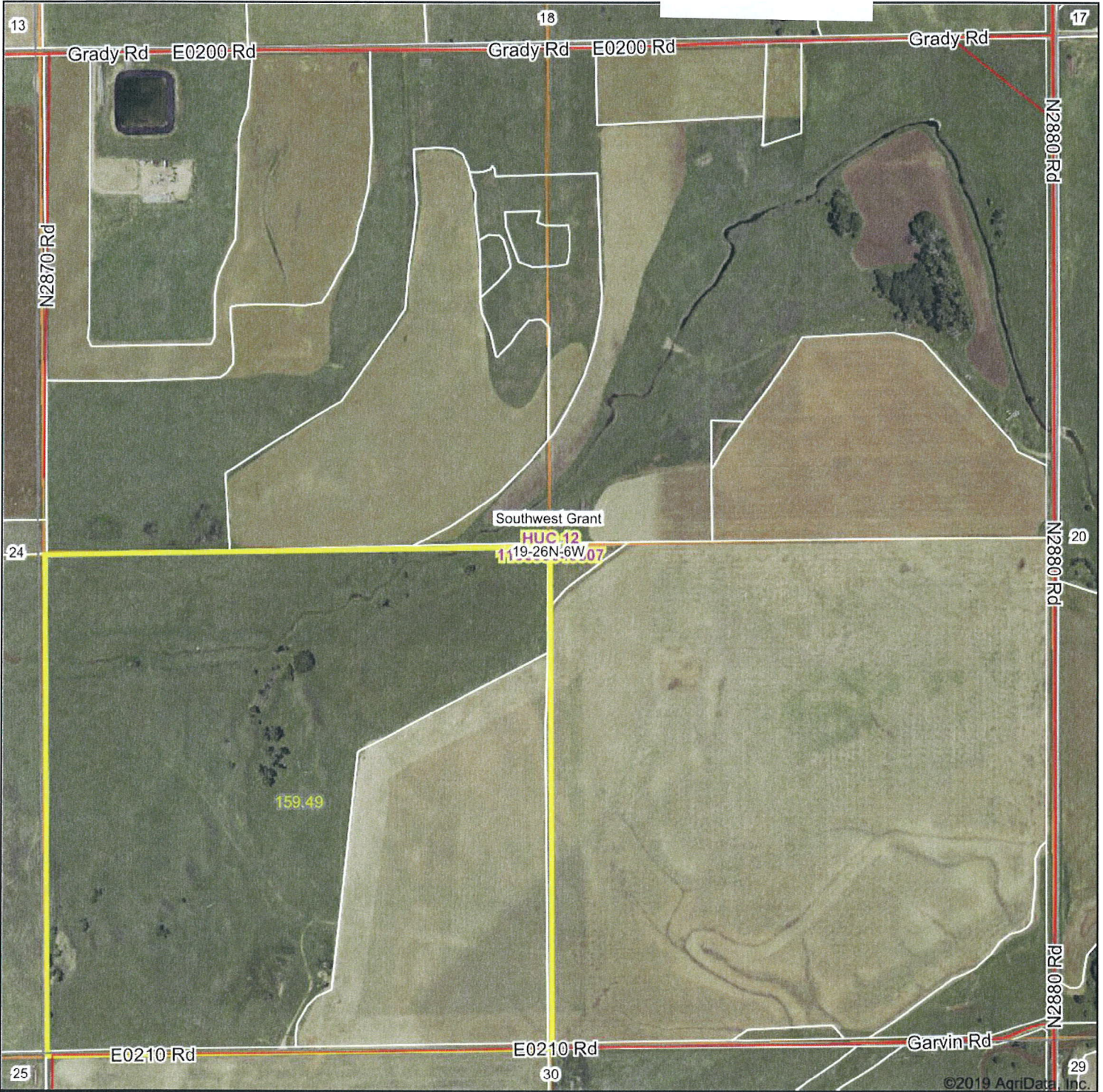
24-26N-7W
Grant County
Oklahoma



7/11/2019

Aerial Map

T28



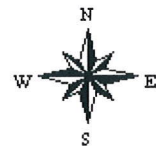
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Map Center: 36° 43' 0.29, -97° 53' 5.18



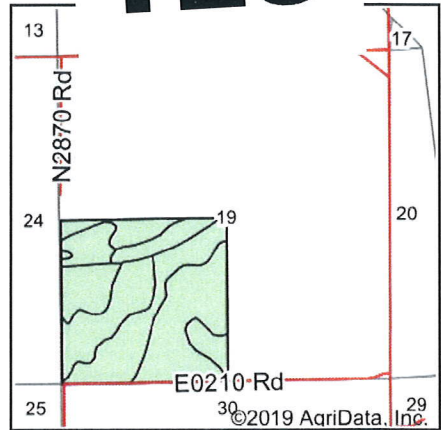
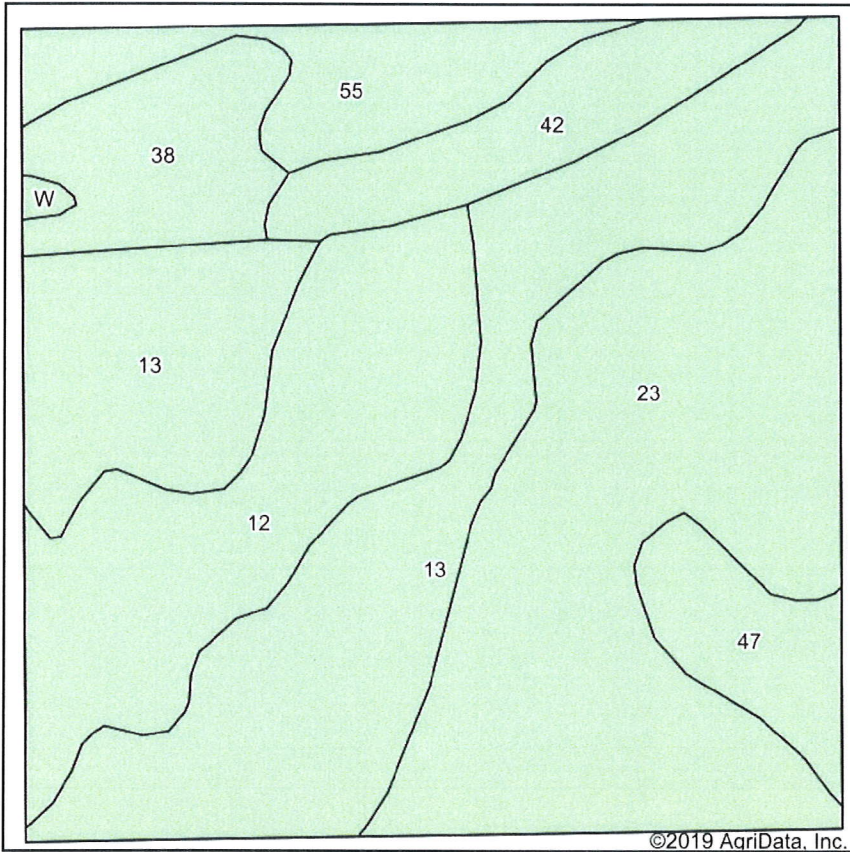
19-26N-6W
Grant County
Oklahoma



7/11/2019

Soils Map

T28



State: **Oklahoma**
 County: **Grant**
 Location: **19-26N-6W**
 Township: **Southwest Grant**
 Acres: **159.49**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

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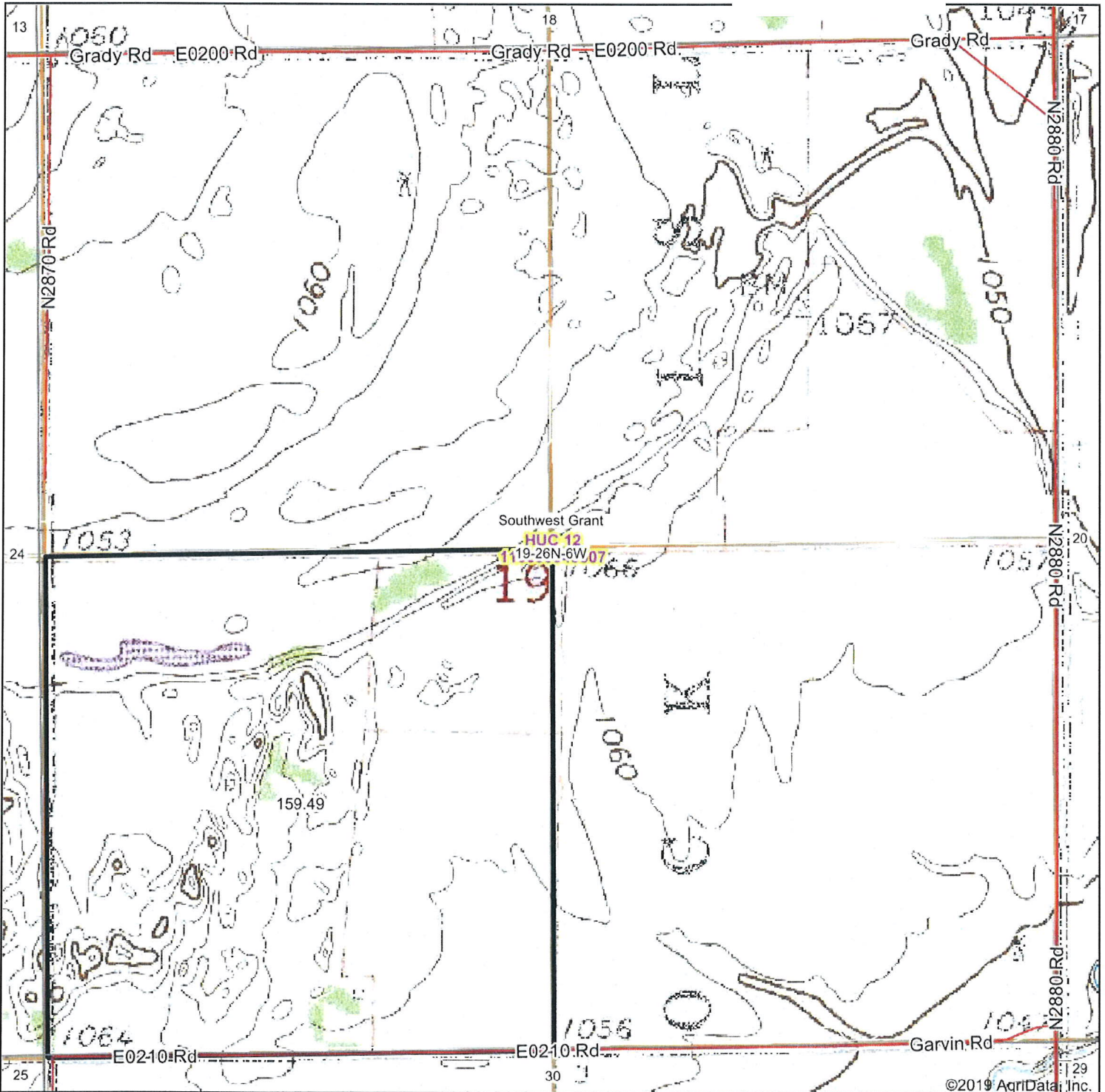
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Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Tall wheatgrass	Weeping lovegrass	Alfalfa hay	Cotton lint	Grain sorghum	Peanuts	Wheat	Soybean
13	Goodnight loamy fine sand, 3 to 5 percent slopes	48.99	30.7%	IVe	3031		4		4		20	5	108	20	
23	Hawley fine sandy loam, 0 to 1 percent slopes, rarely flooded	46.00	28.8%	Ile	6052		8			5	60	54	102	34	
12	Goodnight fine sand, 5 to 15 percent slopes	26.13	16.4%	VIe	3035		3		4		21	3	80	2	
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	10.46	6.6%	IIIe	5995		7	5			383	49	1505	34	
42	Port and Pocasset soils, 0 to 1 percent slopes, frequently flooded	10.17	6.4%	VW	6092		5	5	4			3		2	
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	10.10	6.3%	VIIs	3948		3	3	1	1	23	8		8	

Topography Map

T28



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map center: 36° 43' 0.29, -97° 53' 5.18

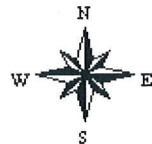


Maps Provided By



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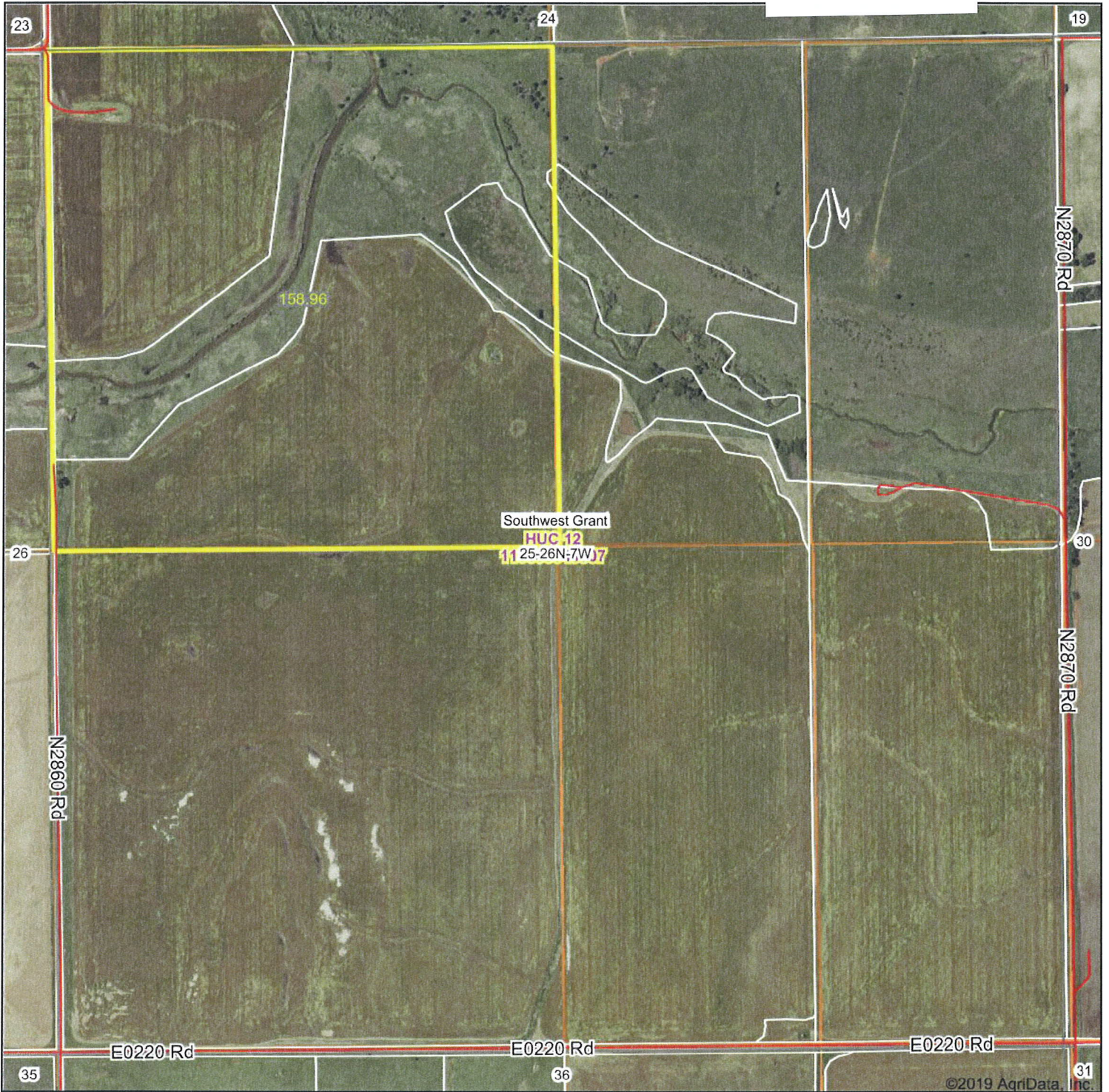
19-26N-6W
Grant County
Oklahoma



7/11/2019

Aerial Map

T29

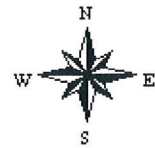


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Map Center: 36° 42' 7.95, -97° 54' 10.34



25-26N-7W
Grant County
Oklahoma



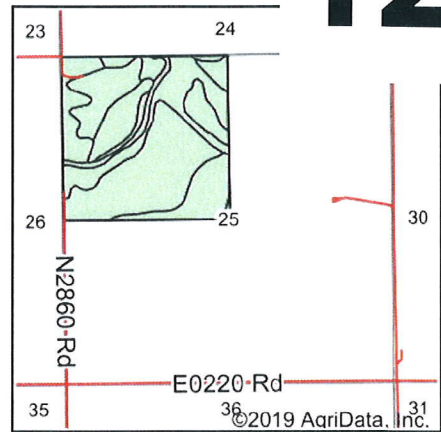
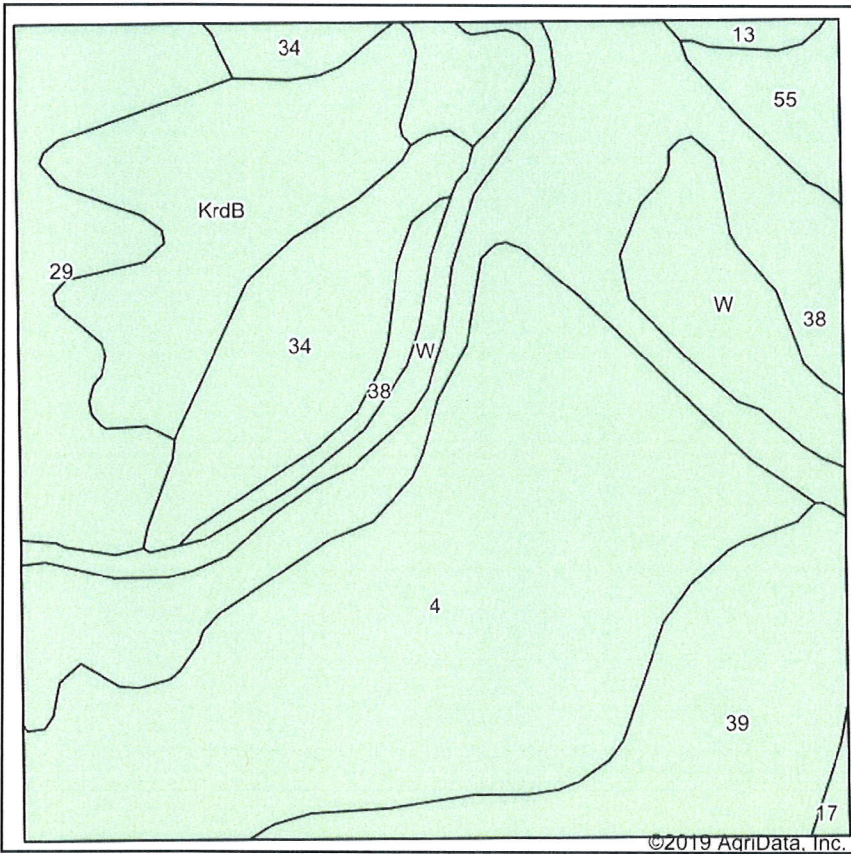
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7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T29



State: **Oklahoma**
 County: **Grant**
 Location: **25-26N-7W**
 Township: **Southwest Grant**
 Acres: **158.96**
 Date: **7/11/2019**



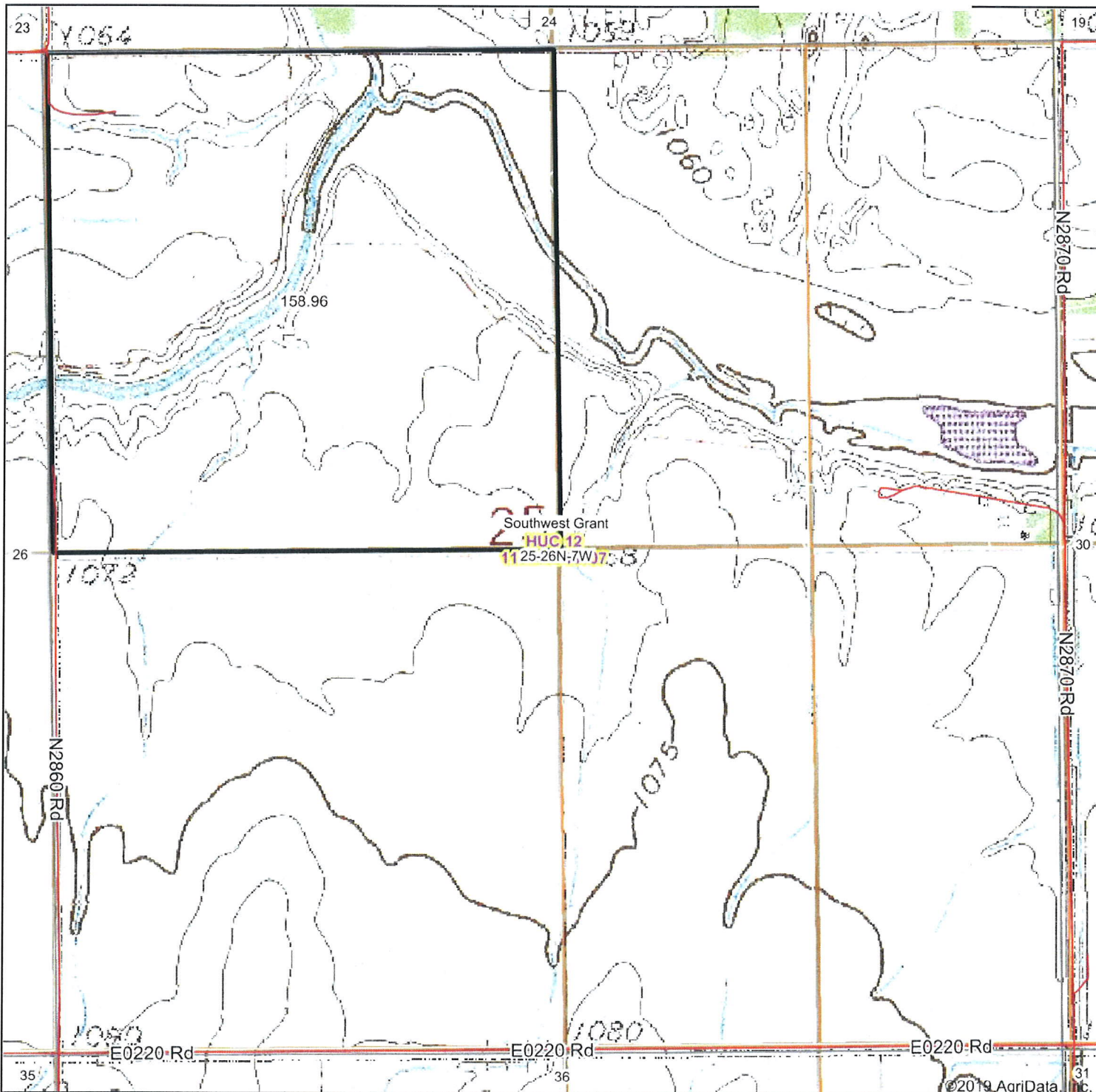
Soils data provided by USDA and NRCS.

Area Symbol: OK053, Soil Area Version: 15

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Irr Class *c	Range Production (lbs/acre/yr)	Sorghum hay	Wheat grazeout	Oats	Grain sorghum	Improved bermudagrass	Introduced bluestem	Wheat	Cotton lint	Barley	Alfalfa hay
4	Bethany silt loam, 0 to 1 percent slopes	50.26	31.6%	Ile	Ile	4633			2	44	5	5	31	276	2	
38	Oscar, saline, occasionally flooded-Grant complex, 0 to 12 percent slopes	30.89	19.4%	VIIs		3948				8	3	3	8	23	5	1
39	Pond Creek silt loam, 0 to 1 percent slopes	17.05	10.7%	Ie	Ie	4747				50	5	5	35	58		4
KrdB	Kirkland silt loam, 1 to 3 percent slopes	16.76	10.5%	IIIs	IIIs	3926	5	4	32	34	4	5	33	50	2	
34	McLain silt loam, 0 to 1 percent slopes, rarely flooded	13.69	8.6%	Is		6095				53	7	6	39	50		5
29	Kirkland silt loam, 0 to 1 percent slopes, cool	13.41	8.4%	IIIs	IIIs	3890	5	4	34	35	4	5	34	22	4	
W	Water	11.97	7.5%	VIII		0										
55	Yahola fine sandy loam, 0 to 1 percent slopes, occasionally flooded	3.49	2.2%	IIIe		5995				49	7	5	34	383		

Topography Map

T29



map center: 36° 42' 7.95, -97° 54' 10.34



25-26N-7W
Grant County
Oklahoma



7/11/2019



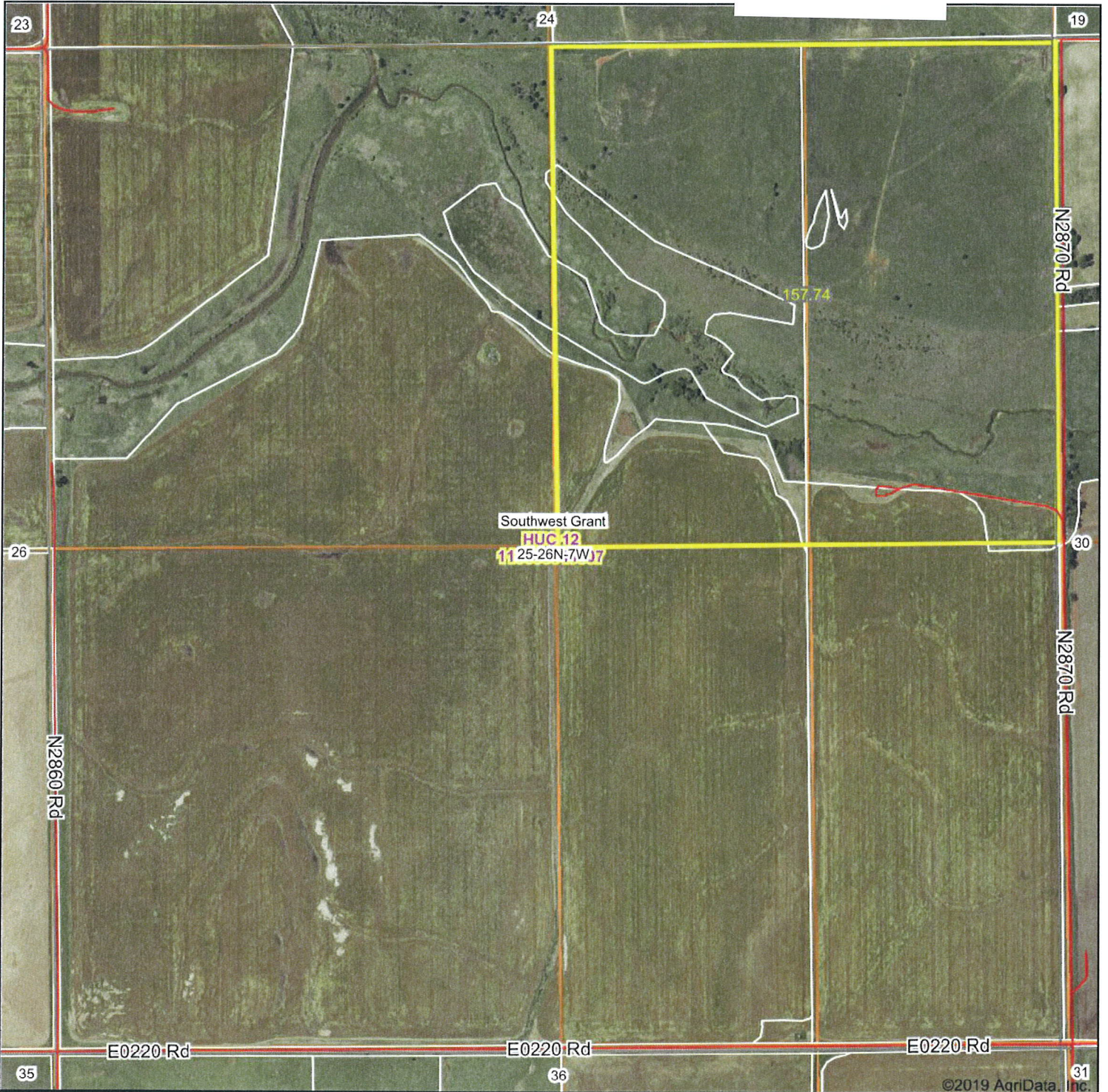
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Aerial Map

T30



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Map Center: 36° 42' 7.95, -97° 54' 10.34



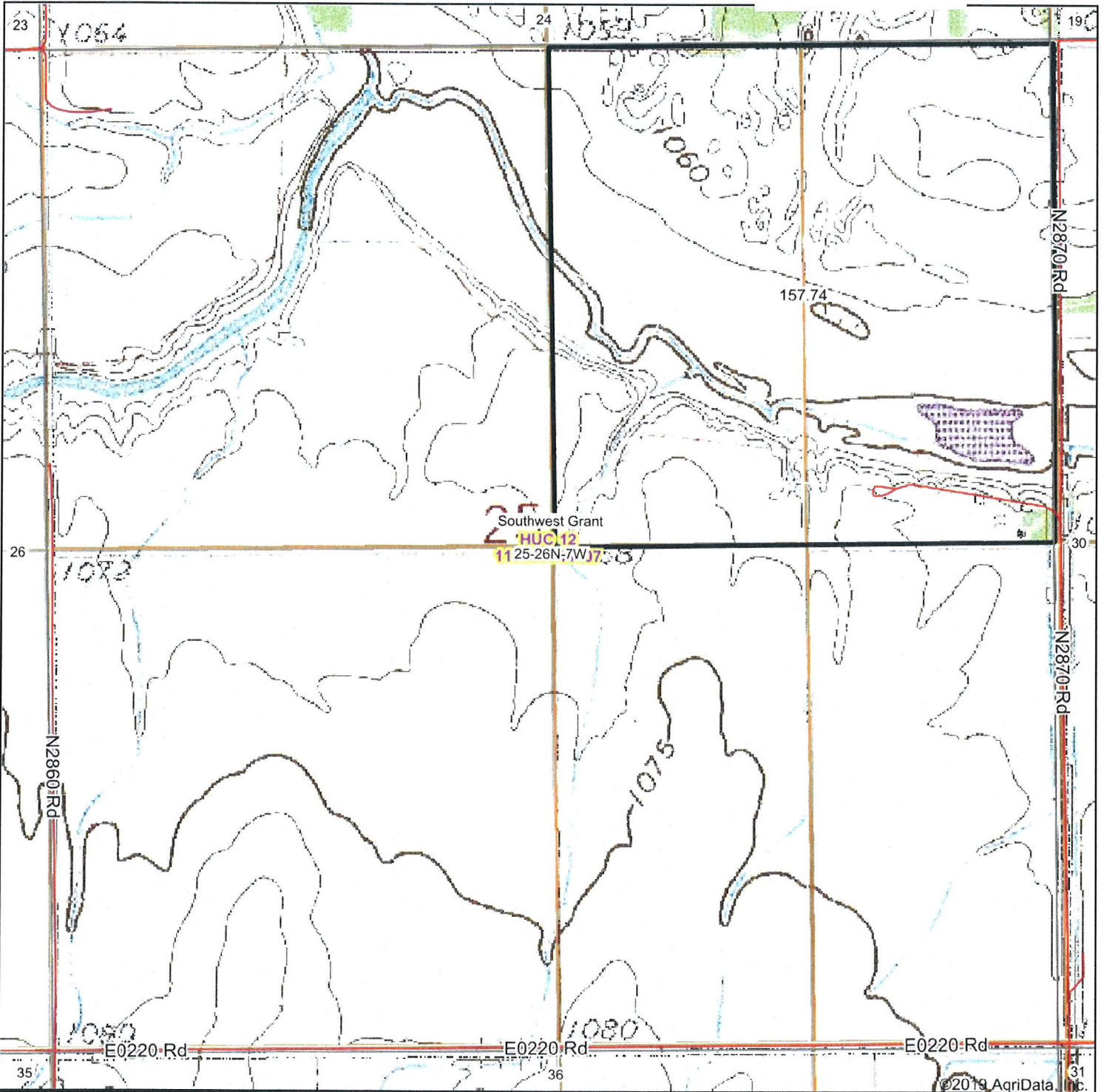
25-26N-7W
Grant County
Oklahoma



7/11/2019

Topography Map

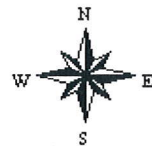
T30



map center: 36° 42' 7.95, -97° 54' 10.34



25-26N-7W
Grant County
Oklahoma



7/11/2019



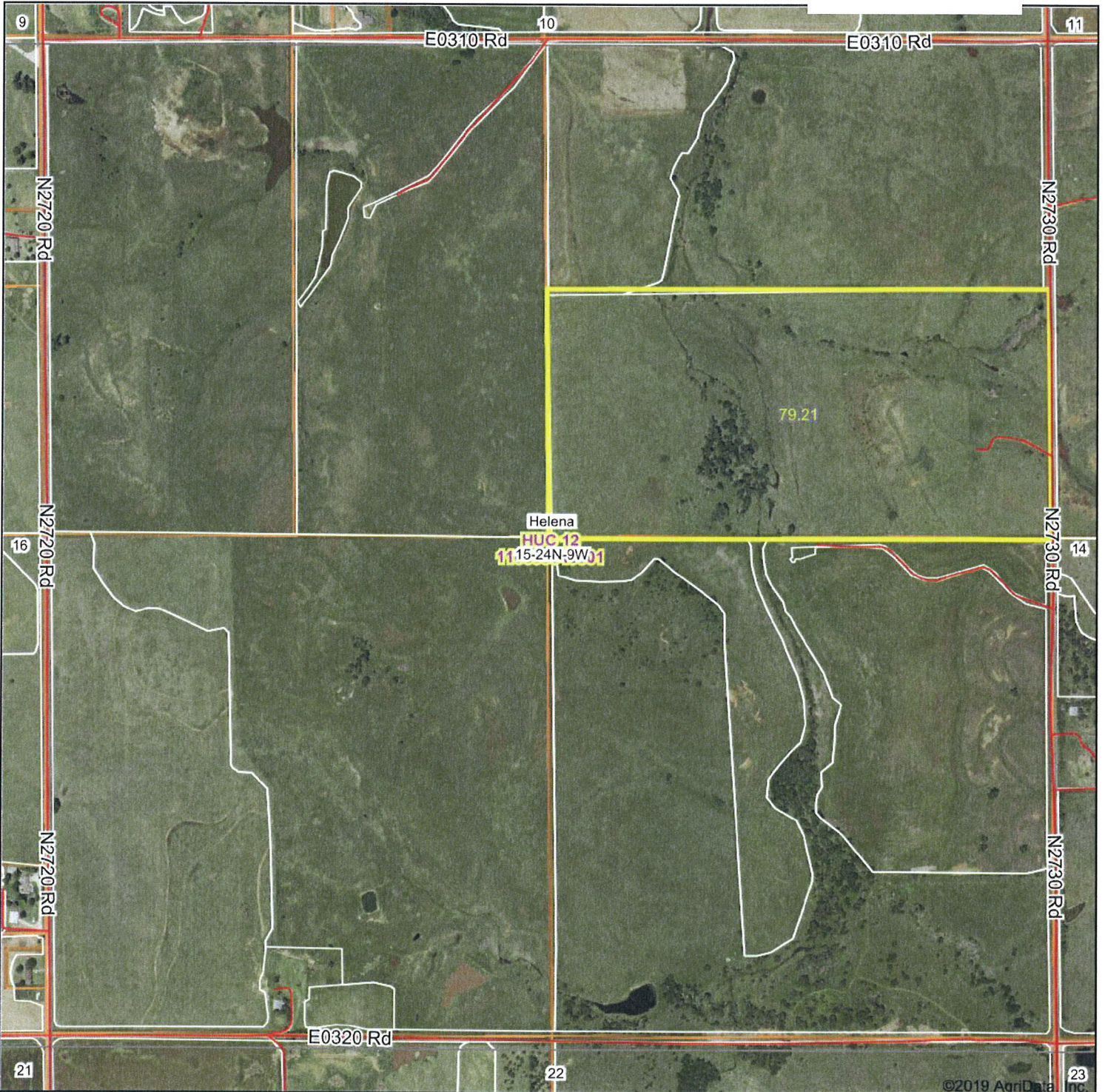
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Aerial Map

T31

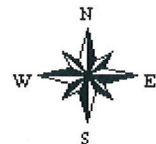


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Map Center: 36° 33' 25.74, -98° 8' 56.87



15-24N-9W
Alfalfa County
Oklahoma

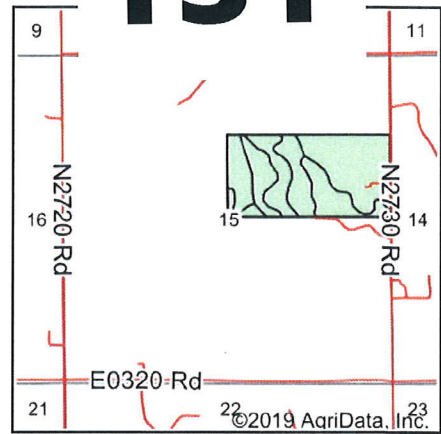
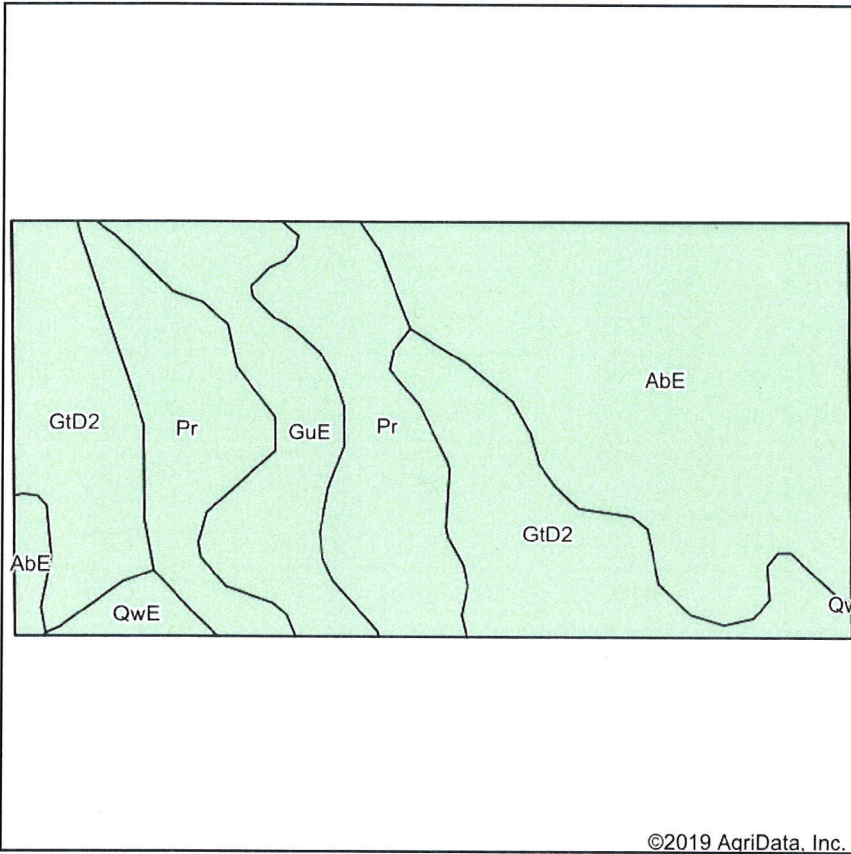


7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA

Soils Map

T31



State: **Oklahoma**
 County: **Alfalfa**
 Location: **15-24N-9W**
 Township: **Helena**
 Acres: **79.21**
 Date: **7/11/2019**



Soils data provided by USDA and NRCS.

Area Symbol: OK003, Soil Area Version: 17

Code	Soil Description	Acres	Percent of field	Non-Irr Class *c	Range Production (lbs/acre/yr)	Improved bermudagrass	Introduced bluestem	Weeping lovegrass	Alfalfa hay	Grain sorghum	Wheat	Barley	Cotton lint	Tall wheatgrass	Caucasian bluestem
AbE	Wisby sandy loam, 5 to 15 percent slopes	30.39	38.4%	Vle	3268	3	1	3		4	2				
GtD2	Grant-Nash complex, 3 to 8 percent slopes, eroded	19.80	25.0%	IVe	0	4	3	4		9	13	7	23		
Pr	Port silt loam, 0 to 1 percent slopes, occasionally flooded	18.40	23.2%	IIw	6112	9			5	49	34		13		
GuE	Grant-Port, frequently flooded, complex, 0 to 12 percent slopes	9.28	11.7%	Vle	5064	5	5	1	1	30	22	2	44		3
QwE	Quinlan-Woodward complex, 5 to 30 percent slopes	1.34	1.7%	VIIe	3122	3	2	2		3	2		25		
Weighted Average					3319.7	4.9	1.8	2.3	1.3	18.7	14.5	2	14.3	0.4	

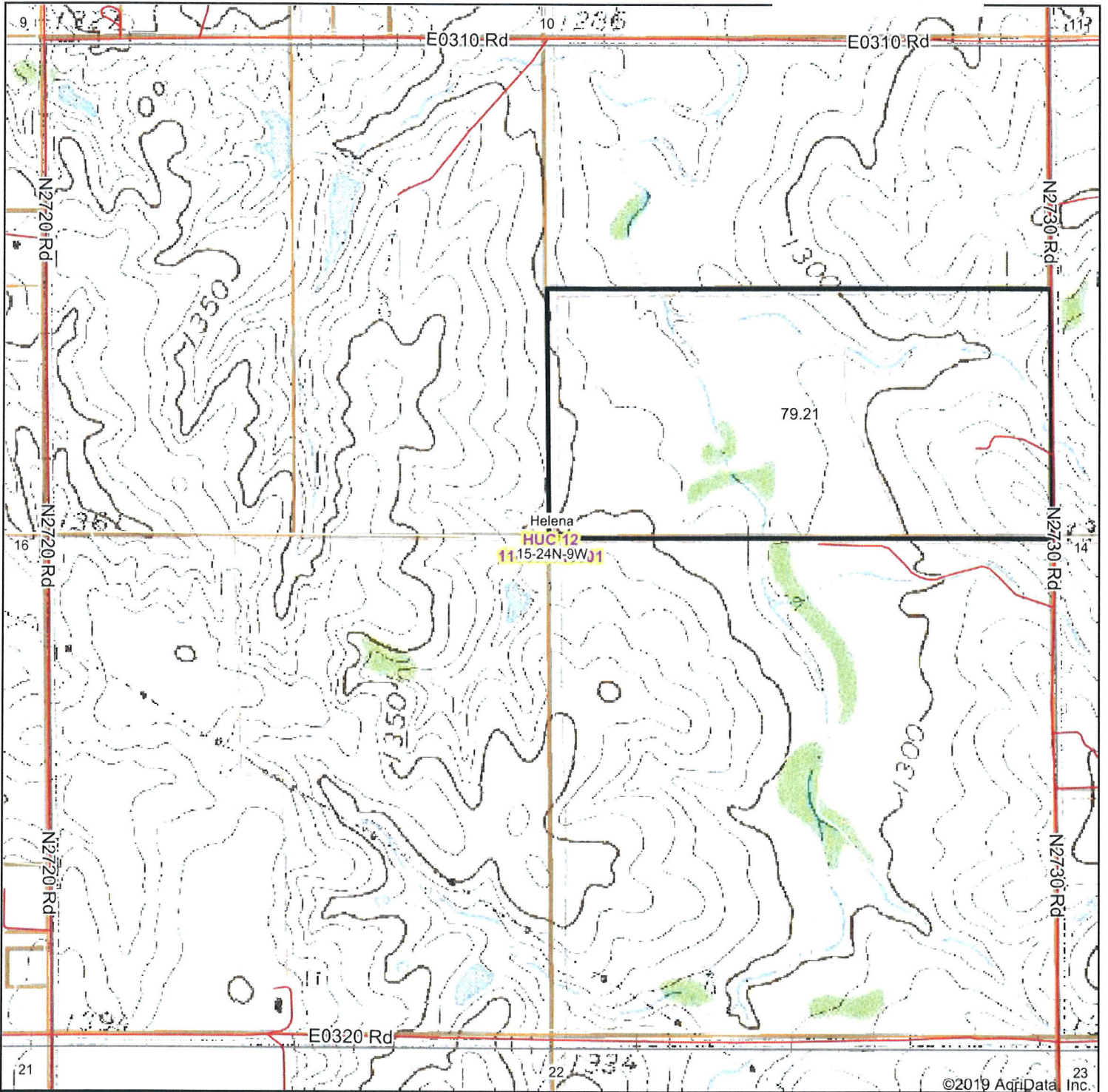
*n: The aggregation method is "Weighted Average using major components"

*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

Topography Map

T31



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map center: 36° 33' 25.74, -98° 8' 56.87



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15-24N-9W
Alfalfa County
Oklahoma



7/11/2019

Field borders provided by Farm Service Agency as of 5/21/2008. Watershed Boundary Dataset provided by USDA-NRCS, USGS and EPA