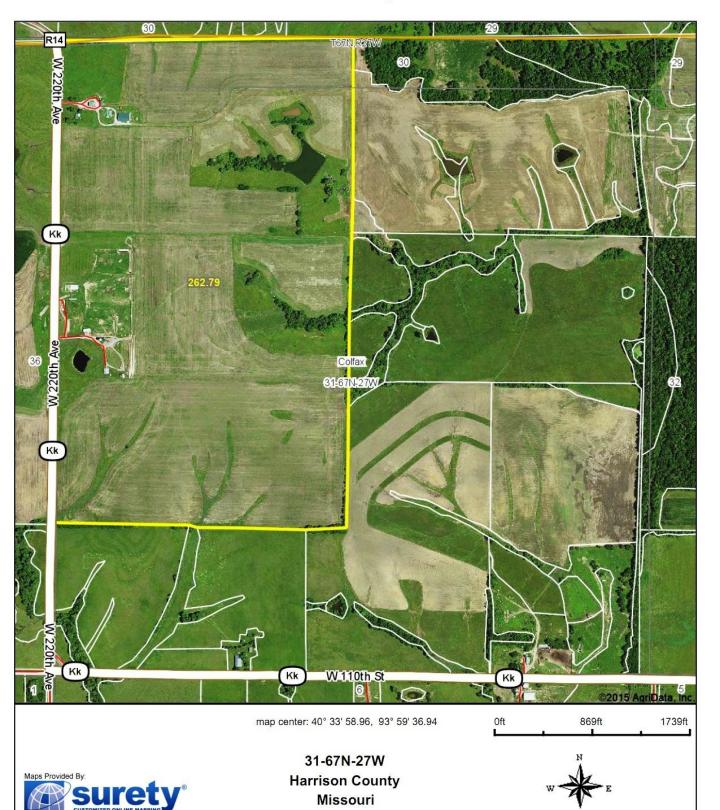
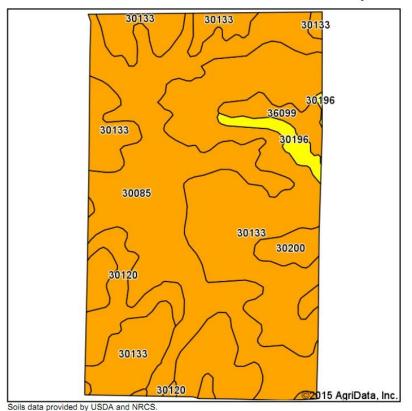
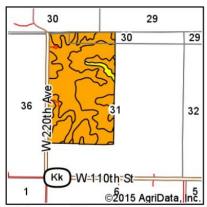
# **TRACT # 1**



# TRACT # 1 Soil Map

## Soil Map





State: Missouri
County: Harrison
Location: 31-67N-27W
Township: Colfax

Acres: 262.79
Date: 1/6/2016





Code	Soil Description	Acres	Percent of field	Non-Irr Class Legend	Non-Irr Class *c	Common bermudagrass	Caucasian bluestem	Warm season grasses	Alfalfa hay	Orchardgrass red clover	Tall fescue
30133	Lamoni clay loam, 5 to 9 percent slopes, moderately eroded	131.84	50.2%		Ille						
30085	Grundy silt loam, 2 to 5 percent slopes	95.65	36.4%		Illw						
30120	Lagonda silty clay loam, 5 to 9 percent slopes, eroded	14.77	5.6%		Ille	7	8	8	5	8	
36099	Zook-Colo silty clay loams, 1 to 3 percent slopes, frequently flooded	9.28	3.5%		IIIw	8		9		7	
30200	Shelby loam, 9 to 14 percent slopes	5.53	2.1%		Ille						
30196	Shelby clay loam, 9 to 14 percent slopes, severely eroded	5.30	2.0%		IVe						
30004	Adair clay loam, 5 to 9 percent slopes, eroded	0.42	0.2%		Ille	7	8	8	5	8	3
	•	•	•	Weight	ed Average	0.7	0.5	0.8	0.3	0.7	0.

Area Symbol: MO081, Soil Area Version: 17

<sup>\*</sup>c: Using Capabilities Class Dominant Condition Aggregation Method



Maps Provided By:

SURETY

SURETY

Arridata Inc. 2015

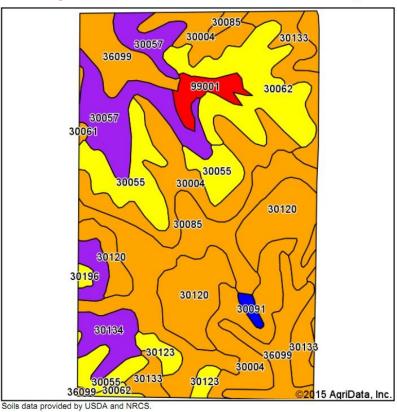
WWW Adrigata Inc. 2015

WWW Adrigatainc com

31-67N-27W Harrison County Missouri



TRACT# Z

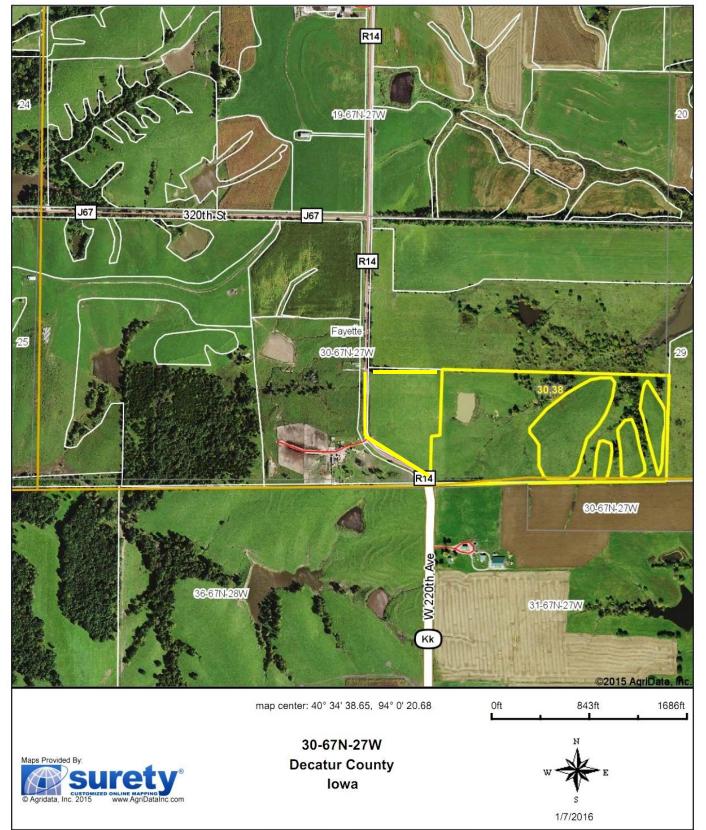


State: Missouri
County: Harrison
Location: 36-67N-28W
Township: Hamilton
Acres: 260.77
Date: 1/6/2016



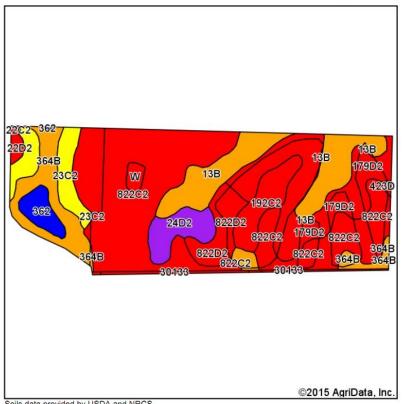


Area Symbol: MO081, Soil Area Version: 17 Code Soil Description Acres Percent of Non-Irr Non-Irr Common Caucasian Warm Alfalfa Orchardgrass red Tall field Class \*c bermudagrass hay Class bluestem season clover fescue Legend grasses 30004 Adair clay loam, 5 to 9 48.98 18.8% Ille 8 percent slopes, eroded 30085 Grundy silt loam, 2 to 5 41.10 15.8% Illw percent slopes Lagonda silty clay loam, 12.7% 30120 33.16 Ille 8 8 5 8 5 to 9 percent slopes, eroded 30062 Gara loam, 9 to 14 25.39 9.7% IVe 8 8 percent slopes 30055 Gara clay loam, 9 to 14 23.66 9.1% IVe 8 8 percent slopes, severely Gara loam, 14 to 18 23.40 30057 9.0% Vle percent slopes 36099 Zook-Colo silty clay 22.81 8.7% 8 9 8 Illw loams, 1 to 3 percent slopes, frequently flooded 30133 17.58 Lamoni clay loam, 5 to 9 6.7% Ille percent slopes, moderately eroded 30134 Lamoni clay loam, 5 to 9 11.96 4.6% Vle percent slopes, severely eroded 99001 Water 5.45 2.1% VIII 4.53 IVe 30123 Lagonda silty clay loam, 1.7% 8 8 5 8 5 to 9 percent slopes, severely eroded 30091 Grundy silty clay loam, 2 1.23 0.5% lle to 5 percent slopes, moderately eroded 30196 Shelby clay loam, 9 to 0.84 0.3% IVe 14 percent slopes, severely eroded 30061 Gara loam, 5 to 9 0.68 Ille 0.3% 8 8 percent slopes Weighted Average 4.4 4.2



#### **TRACT # 3**

#### Soils Map-CSR2



24 19 20 320th-St- J67 25 29 36 31 ©2015 AgriData, Inc.

State: Iowa Decatur County: 30-67N-27W Location: Township: Fayette Acres: 54.73

Date:

1/6/2016



Soils data provided by USDA and NRCS.

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	CSR2**	cs
822C2	Lamoni clay loam, 5 to 9 percent slopes, moderately eroded	20.97	38.3%		IIIe	29	R 24
179D2	Gara clay loam, 9 to 14 percent slopes, moderately eroded	8.32	1.000		IVe		
13B	Olmitz-Zook-Vesser complex, 0 to 5 percent slopes	7.00	12.8%		llw	76	55
364B	Grundy silty clay loam, 2 to 5 percent slopes	4.98	9.1%		lle	72	75
23C2	Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded	2.98	5.4%		Ille	62	50
822D2	Lamoni clay loam, 9 to 14 percent slopes, moderately eroded	2.85	5.2%		IVe	30	15
192C2	Adair clay loam, 5 to 9 percent slopes, moderately eroded	2.64	4.8%		Ille	37	30
24D2	Shelby clay loam, 9 to 14 percent slopes, moderately eroded	2.37	4.3%	1	Ille	51	48
362	Haig silty clay loam, 0 to 2 percent slopes	1.37	2.5%		llw	83	70
30133	Lamoni clay loam, 5 to 9 percent slopes, moderately eroded	0.59	1.1%		IIIe	29	
W	Water	0.47	0.9%			0	0
423D2	Bucknell clay loam, 9 to 14 percent slopes, moderately eroded	0.11	0.2%		IVe	8	13
30085	Grundy silt loam, 2 to 5 percent slopes	0.08	0.1%		Illw	0	
)					Weighted Average	45.3	*.

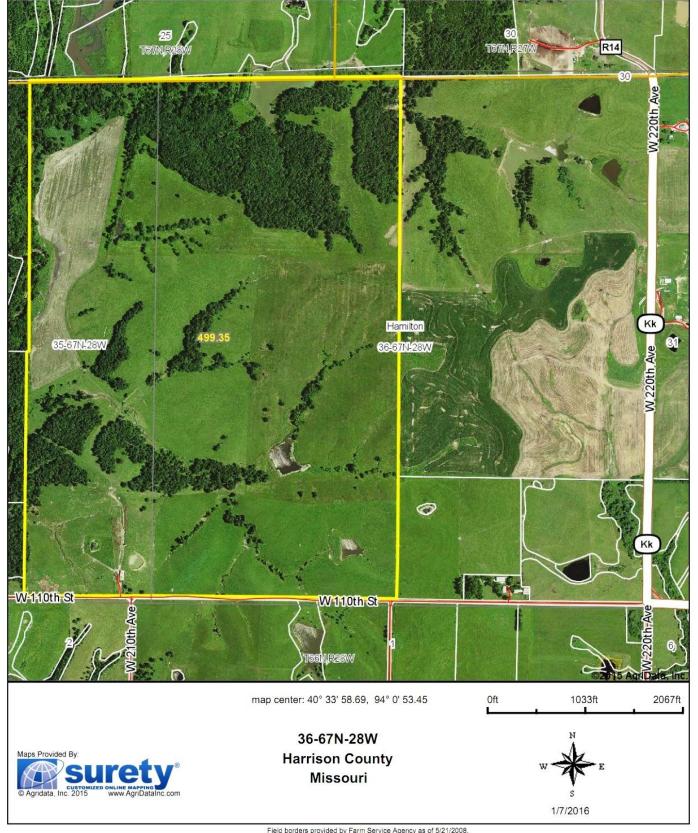
Area Symbol: IA053, Soil Area Version: 21 Area Symbol: MO081, Soil Area Version: 17

Soils data provided by USDA and NRCS.

<sup>\*\*</sup>IA has updated the CSR values for each county to CSR2.

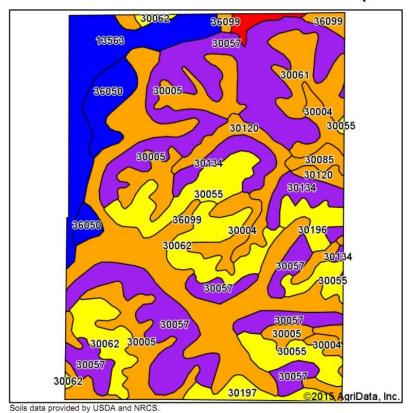
<sup>\*-</sup> CSR weighted average cannot be calculated on the current soils data, use prior data version for csr values.

<sup>\*</sup>c: Using Capabilities Class Dominant Condition Aggregation Method



## **TRACT # 4**

### Soil Map

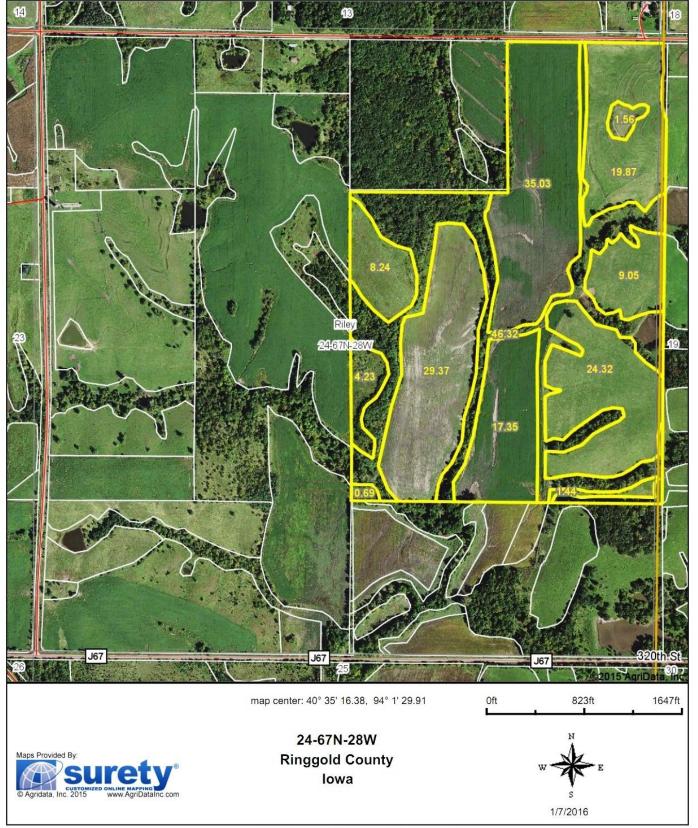


State: Missouri
County: Harrison
Location: 36-67N-28W
Township: Hamilton
Acres: 499.35
Date: 1/6/2016



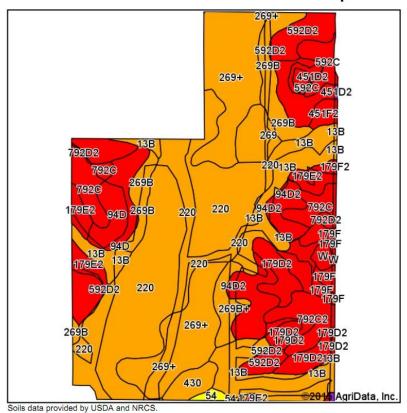


Code	Soil Description	Acres	Percent of field	Non-Irr Class Legend	Non-Irr Class *c	Common bermudagrass	Caucasian bluestem	Warm season grasses	Alfalfa hay	Orchardgrass red clover	Tall fescue
30057	Gara loam, 14 to 18 percent slopes	126.45	25.3%		Vle						
36099	Zook-Colo silty clay loams, 1 to 3 percent slopes, frequently flooded	84.89	17.0%		IIIw	8		9		7	8
30005	Adair loam, 3 to 9 percent slopes	43.70	8.8%		Ille	7	8	8	5	8	7
13563	Nodaway silt loam, 0 to 2 percent slopes, occasionally flooded	39.59	7.9%		llw						
30055	Gara clay loam, 9 to 14 percent slopes, severely eroded	39.20	7.9%		IVe	7	8	8	7	7	7
30062	Gara loam, 9 to 14 percent slopes	34.89	7.0%		IVe	7	8	8	7	7	7
30004	Adair clay loam, 5 to 9 percent slopes, eroded	24.99	5.0%		Ille	7	8	8	5	8	7
30134	Lamoni clay loam, 5 to 9 percent slopes, severely eroded	21.21	4.2%		Vle						
30120	Lagonda silty clay loam, 5 to 9 percent slopes, eroded	18.10	3.6%		llle	7	8	8	5	8	7
30061	Gara loam, 5 to 9 percent slopes	18.08	3.6%		Ille	7	8	8	7	7	7
36050	Zook silty clay loam, 0 to 2 percent slopes, occasionally flooded	17.13	3.4%		llw	7		8		6	7



## Tract #5

#### Soils Map-CSR2



23 24 19 19 19 26 25 ©2015 AgriData, Inc.

State: lowa
County: Ringgold
Location: 24-67N-28W

Township: Riley
Acres: 196.78
Date: 1/6/2016





	iymbol: IA053, Soil Area Version: 21 iymbol: IA159, Soil Area Version: 20						
Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	CSR2**	CS R
220	Nodaway silt loam, 0 to 2 percent slopes	51.56	26.2%		llw	77	85
269+	Humeston silt loam, overwash, 0 to 2 percent slopes	29.66	15.1%		Illw	72	63
13B	Olmitz-Zook-Humeston complex, 0 to 5 percent slopes	22.53	11.4%		llw	78	59
269B	Humeston silty clay loam, 2 to 5 percent slopes	9.31	4.7%		IIIw	71	53
592D2	Mystic clay loam, 9 to 14 percent slopes, moderately eroded	9.09	4.6%		IVe	24	5
94D2	Mystic-Caleb complex, 9 to 14 percent slopes, moderately eroded	9.01	4.6%		IVe	29	13
179D2	Gara loam, 9 to 14 percent slopes, moderately eroded	8.33	4.2%		IVe	38	43
94D	Mystic-Caleb loams, 9 to 14 percent slopes	7.19	3.7%		IVe	27	17
792C	Armstrong loam, 5 to 9 percent slopes	6.52	3.3%		Ille	35	31
179E2	Gara loam, 14 to 18 percent slopes, moderately eroded	5.56	2.8%		Vle	24	33
451D2	Caleb loam, 9 to 14 percent slopes, moderately eroded	5.23	2.7%		IVe	47	33
792C2	Armstrong clay loam, 5 to 9 percent slopes, moderately eroded	4.74	2.4%		Ille	24	27
269	Humeston silty clay loam, 0 to 2 percent slopes	4.25	2.2%		IIIw	72	58
179F	Gara loam, 18 to 25 percent slopes	4.16	2.1%		Vle	20	15
179F2	Gara loam, 18 to 24 percent slopes, moderately eroded	3.57	1.8%		Vle	12	13
269B+	Humeston silt loam, overwash, 2 to 5 percent slopes	3.45	1.8%		Illw	71	58
430	Ackmore silt loam, 0 to 2 percent slopes	2.91	1.5%		llw	76	83
592C	Mystic loam, 5 to 9 percent slopes	2.78	1.4%		Ille	40	25
W	Water	1.65	0.8%			0	0
451F2	Caleb loam, 14 to 25 percent slopes, moderately eroded	1.27	0.6%		VIIe	28	5
54	Zook silty clay loam, 0 to 2 percent slopes	0.72	0.4%		llw	65	70
792D2	Armstrong clay loam, 9 to 14 percent, slopes, moderately eroded	0.68	0.3%		IVe	5	13
13B	Olmitz-Zook-Vesser complex, 0 to 5 percent slopes	0.63	0.3%		llw	76	55
179F	Gara loam, 18 to 25 percent slopes	0.50	0.3%	[h	Vle	19	15

## Tract #5

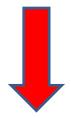


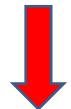
				Weighted Average	58.1	53
592C	Mystic silt loam, 5 to 9 percent slopes	0.07	0.0%	Ille	37	25
W	Water	0.08	0.0%		0	0
451E2	Caleb loam, 14 to 18 percent slopes, moderately eroded	0.17	0.1%	Vle	41	23
179F2	Gara clay loam, 18 to 25 percent slopes, moderately eroded	0.17	0.1%	VIIe	16	13
792C2	Armstrong clay loam, 5 to 9 percent slopes, moderately eroded	0.20	0.1%	Ille	24	27
451D2	Caleb loam, 9 to 14 percent slopes, moderately eroded	0.20	0.1%	IVe	53	33
792C	Armstrong loam, 5 to 9 percent slopes	0.24	0.1%	llle	35	31
179D2	Gara clay loam, 9 to 14 percent slopes, moderately eroded	0.35	0.2%	IVe	43	43

Area Symbol: IA053, Soil Area Version: 21 Area Symbol: IA159, Soil Area Version: 20

Soils data provided by USDA and NRCS.

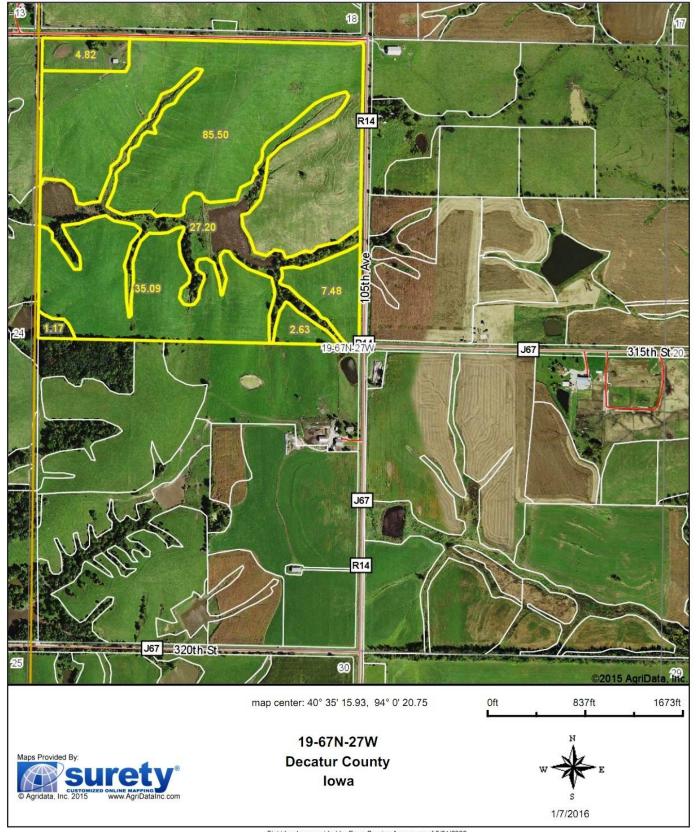
# One more soil map continue to last of tract # 5



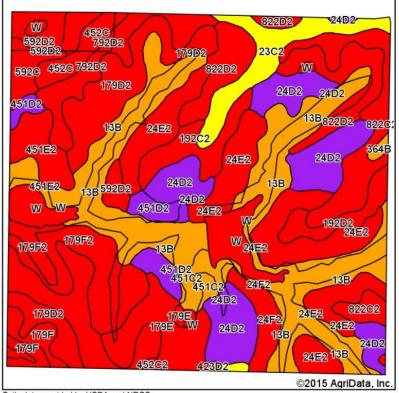


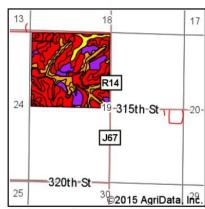
<sup>\*\*</sup>IA has updated the CSR values for each county to CSR2.

<sup>\*</sup>c: Using Capabilities Class Dominant Condition Aggregation Method



### Soils Map-CSR2





State: Iowa
County: Decatur
Location: 19-67N-27W
Township: Fayette
Acres: 163.89
Date: 1/6/2016





Soils data provided by USDA and NRCS.

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	CSR2**	CS R
13B	Olmitz-Zook-Vesser complex, 0 to 5 percent slopes	30.29	18.5%		Ilw	76	55
24E2	Shelby clay loam, 14 to 18 percent slopes, moderately eroded	18.41	11.2%		IVe	40	38
24D2	Shelby clay loam, 9 to 14 percent slopes, moderately eroded	15.39	9.4%	1	Ille	51	48
179D2	Gara clay loam, 9 to 14 percent slopes, moderately eroded	11.80	7.2%		IVe	43	43
822D2	Lamoni clay loam, 9 to 14 percent slopes, moderately eroded	9.16	5.6%		IVe	30	15
179F2	Gara clay loam, 18 to 25 percent slopes, moderately eroded	9.12	5.6%	Y.	VIIe	16	13
822C2	Lamoni clay loam, 5 to 9 percent slopes, moderately eroded	8.32	5.1%		Ille	29	24
792C	Armstrong loam, 5 to 9 percent slopes	6.61	4.0%		Ille	35	31
W	Water	6.45	3.9%			0	0
23C2	Arispe silty clay loam, 5 to 9 percent slopes, moderately eroded	6.38	3.9%		Ille	62	50
179E	Gara loam, 14 to 18 percent slopes	6.29	3.8%		Vle	24	35
792D2	Armstrong clay loam, 9 to 14 percent, slopes, moderately eroded	5.41	3.3%		IVe	5	13
192C2	Adair clay loam, 5 to 9 percent slopes, moderately eroded	4.01	2.4%		Ille	37	30
451D2	Caleb loam, 9 to 14 percent slopes, moderately eroded	3.71	2.3%		IVe	53	33
451E2	Caleb loam, 14 to 18 percent slopes, moderately eroded	3.59	2.2%		Vle	41	23
592D2	Mystic clay loam, 9 to 14 percent slopes, moderately eroded	3.02	1.8%		IVe	24	5
192D2	Adair clay loam, 9 to 14 percent slopes, moderately eroded	2.79	1.7%		IVe	12	15
24F2	Shelby clay loam, 18 to 25 percent slopes, moderately eroded	2.71	1.7%		Vle	21	18
452C	Lineville silt loam, 5 to 9 percent slopes	2.67	1.6%		Ille	48	36
451C2	Caleb loam, 5 to 9 percent slopes, moderately eroded	2.49	1.5%		Ille	77	43
179F	Gara loam, 18 to 25 percent slopes	2.45	1.5%		Vle	19	15
592C	Mystic silt loam, 5 to 9 percent slopes	2.09	1.3%		Ille	37	25
364B	Grundy silty clay loam, 2 to 5 percent slopes	0.37	0.2%		lle	72	75
452C2	Lineville silt loam, 5 to 9 percent slopes, moderately eroded	0.22	0.1%		IIIe	46	31
423D2	Bucknell clay loam, 9 to 14 percent slopes, moderately eroded	0.14	0.1%		IVe	8	13
					Weighted Average	42.3	34.4

Area Symbol: IA053, Soil Area Version: 21

\*\*IA has updated the CSR values for each county to CSR2.