

## IOWA RUSLE2 COMPLIANCE PLAN

### RUSLE2 SOFTWARE DETAILS

- Program version: Aug 18 2014
  - Database name: Area 2 Feb 2015 moses
- File:** plans\Warren Co Templates - D & E Slopes Final 5-27-2015

### Inputs:

<i>Owner name</i>	<i>Location</i>	<i>Tract #</i>
Warren Co. Templates - D & E Slopes	USA\Iowa\Warren County	

<i>Field name</i>	<i>Soil</i>	<i>Slope T Value</i>	<i>Slope length, ft</i>	<i>Slope steepness, %</i>
D slopes (Not High Yield)	soils\Warren County, Iowa\822D2 Lamoni silty clay loam, 9 to 14 percent slopes, moderately eroded\Lamoni Silty clay loam moderately eroded 95%	3.0	120	12
D slopes	soils\Warren County, Iowa\93D2 Adair-Shelby clay loams, 9 to 14 percent slopes, moderately eroded\Adair Clay loam moderately eroded 50%	3.0	120	12
E slopes	soils\Warren County, Iowa\179E2 Gara loam, 14 to 18 percent slopes, moderately eroded\Gara Loam moderately eroded 90%	5.0	120	16

### Results:

<b>D Slopes</b>	<b>822D2 t=3 k=.37 Not High Yields</b>					
<i>Field name</i>	<i>Description</i>	<i>Management</i>	<i>Contouring system</i>	<i>Support practices</i>	<i>Terrace/diversion system</i>	<i>Cons. plan. soil loss, t/ac/yr</i>
D slopes (Not High Yield)	Grandfathered system - Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 40% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 60% of the ground covered by residue after planting. - Contouring Required - Anhydrous may be applied in the fall. Temp#1	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4 temp1NHY	contour-systems\b. absolute row grade 2 percent	-- none -	-- none --	6.1
D slopes (Not High Yield)	Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 40% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 60% of the ground covered by residue after planting. - Planting and operations will be at a 5% row grade. - Anhydrous may be applied in the fall. Temp#2	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4updown temp2NHY	contour-systems\b. absolute row grade 5 percent	-- none -	-- none --	5.7
D slopes (Not High Yield)	Rotation: Corn-Soybean - Tillage: Corn will be strip-tilled into soybean stubble leaving at least 50% of the ground covered by residue after planting. Soybeans will be no-tilled into corn stalks leaving at least 70% of the ground covered by residue after planting. - Contouring not required - Anhydrous may be applied in the fall. Strip-till may be done in the fall. Temp #6	managements\CMZ 04\c.Other Local Mgt Records\Corn FallStrip till fall anhy high yield- Soybeans wr NTz4 temp6NHY	contour-systems\b. absolute row grade 2 percent	-- none -	-- none --	5.6

D slopes (Not High Yield)	Rotation: Corn-Soybean complete No-till with rye cover crop - Tillage: Rye Cover is aerial applied into standing soybeans. Rye cover crop is sprayed to kill the cover crop before planting. Corn is No-tilled into soybean stubble leaving at least 40% of the ground covered by residue after planting. Rye Cover is aerial applied into standing Corn at Black layer. Beans are No-tilled into living rye cover crop leaving at least 75% of the ground covered by residue after planting. Rye cover crop is sprayed to kill the cover crop before crop emerges - Anhydrous to be applied in the spring - Contouring not required. Temp #9	managements\CMZ 04\c.Other Local Mgt Records\Soybeans; wr, aerial rye; NT; corn grain high yield, aerial rye; NT z4 temp9NHY	contour-systems\ a. rows up-and-down hill	-- none - -	-- none --	3.9
D slopes (Not High Yield)	Rotation: Soybean-Corn-Oat-Meadow-Meadow-Meadow - Tillage: the meadow is sprayed to kill it and soybeans are no-tilled into the meadow leaving at least 35% of the ground covered by residue after planting. Corn is no-tilled into the soybean stubble leaving at least 35% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 50% of the ground covered by residue after planting. - Contouring not required. - Anhydrous may be applied in the fall. Temp #11	managements\CMZ 04\c.Other Local Mgt Records\Soybeans NT into Meadoow, Corn NTinto Bean stub, fall anhy, Spr fcult- Oats alfalfa seeding Alfalfa Hay 3yr, 3 cut, 4 tons/acre z4 temp11NHY	contour-systems\ a. rows up-and-down hill	-- none - -	-- none --	5.6

D slopes (Not High Yield)	Rotation: Corn-Soybean-Oat-Meadow-Meadow-Meadow - Tillage: Meadow is fall chisel disked and then spring field cultivated before planting corn. Corn is planted into meadow residue leaving at least 35% of the ground covered by residue after planting. Corn stalks are fall chisel disked and then corn stalks are spring field cultivated leaving at least 30% of the ground covered by residue after planting soybeans. Soybean stubble is spring field cultivated before seeding oats leaving at least 25% of the ground covered by residue after planting. - Planting and operations will be at a 4% row grade. - Anhydrous may be applied in the fall. Temp #12	managements\CMZ 04\c.Other Local Mgt Records\Corn Fdisk spr fcult plant corn into M- Fdisk spr fcult plant Soybeans spr fcult drill- Oats alfalfa seeding - Alfalfa Hay 3yr, 3 cut, 4 tons/acre z4 temp12NHY	contour-systems\b. absolute row grade 4 percent	-- none - -	-- none --	6.0
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<b>D Slopes</b>	<b>93D2 t=3 k=.28</b>					
D slopes	Grandfathered system - Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 40% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 60% of the ground covered by residue after planting. - Contouring Required - Anhydrous may be applied in the fall. Temp#1	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4 temp1	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	3.5
D slopes	Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 40% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 60% of the ground covered by residue after planting. - Contouring not required - Anhydrous may be applied in the fall. Temp#2	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4updown temp2	contour-systems\a. rows up-and-down hill	-- none --	-- none --	3.9
D slopes	Rotation: Corn-Soybean - Tillage: Corn will be strip-tilled into soybean stubble leaving at least 45% of the ground covered by residue after planting. Soybeans will be no-tilled into corn stalks leaving at least 75% of the ground covered by residue after planting. - Contouring not required - Anhydrous may be applied in the fall. Strip-till may be done in the fall. Temp #6	managements\CMZ 04\c.Other Local Mgt Records\Corn FallStrip till fall anhy high yield- Soybeans wr NTz4 temp6	contour-systems\a. rows up-and-down hill	-- none --	-- none --	5.1
D slopes	Rotation: Corn-Soybean complete No-till with rye cover crop - Tillage: Rye Cover is aerial applied into standing soybeans. Rye cover crop is sprayed to kill the cover crop before planting. Corn is No-tilled into soybean stubble leaving at least 40% of the ground covered by residue after planting. Rye Cover is aerial applied into standing Corn at Black layer. Beans are No-tilled into living rye cover crop leaving at least 75% of the ground covered by residue after planting. Rye cover crop is sprayed to kill the cover crop before crop emerges - Anhydrous to be applied in the spring - Contouring not required. Temp #9	managements\CMZ 04\c.Other Local Mgt Records\Soybeans; wr, aerial rye; NT; corn grain high yield, aerial rye; NT z4 temp9	contour-systems\a. rows up-and-down hill	-- none --	-- none --	2.6

D slopes	Rotation: Corn-Soybean with rye cover crop No-till/Mulch-till - Tillage: Rye Cover is aerial applied into standing soybeans. Rye cover crop is sprayed to kill the cover crop before planting. Soybean stubble is spring field cultivated and planted into soybean stubble leaving at least 60% of the ground covered by residue after planting corn. Rye Cover is aerial applied into standing Corn at Black layer. Beans are No-tilled into living rye cover crop leaving at least 75% of the ground covered by residue after planting. Rye cover crop is sprayed to kill the cover crop before crop emerges - Anhydrous to be applied in the spring - Contouring required. Temp #10	managements\CMZ 04\c.Other Local Mgt Records\Soybeans; wr NTinto aerial rye; corn grain high yield spr fcult, aerial rye; z4 temp10	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	5.8
D slopes	Rotation: Soybean-Corn-Oat-Meadow-Meadow-Meadow - Tillage: the meadow is sprayed to kill it and soybeans are no-tilled into the meadow leaving at least 35% of the ground covered by residue after planting. Corn is no-tilled into the soybean stubble leaving at least 35% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 50% of the ground covered by residue after planting. - Contouring not required. - Anhydrous may be applied in the fall. Temp #11	managements\CMZ 04\c.Other Local Mgt Records\Soybeans NT into Meadoow, Corn NTinto Bean stub, fall anhy, Spr fcult- Oats alfalfa seeding Alfalfa Hay 3yr, 3 cut, 4 tons/acre z4 temp11	contour-systems\a. rows up-and-down hill	-- none --	-- none --	3.9
D slopes	Rotation: Corn-Soybean-Oat-Meadow-Meadow-Meadow - Tillage: Meadow is fall chisel disked and then spring field cultivated before planting corn. Corn is planted into meadow residue leaving at least 25% of the ground covered by residue after planting. Corn stalks are fall chisel disked and then corn stalks are spring field cultivated leaving at least 30% of the ground covered by residue after planting soybeans. Soybean stubble is spring field cultivated before seeding oats leaving at least 25% of the ground covered by residue after planting. - Contour not required. - Anhydrous may be applied in the fall. Temp #12	managements\CMZ 04\c.Other Local Mgt Records\Corn Fdisk spr fcult plant corn into M- Fdisk spr fcult plant Soybeans spr fcult drill- Oats alfalfa seeding - Alfalfa Hay 3yr, 3 cut, 4 tons/acre z4 temp12	contour-systems\a. rows up-and-down hill	-- none --	-- none --	4.9

D slopes	<p>Rotation: Soybean-Corn-Soybean-Oat-Meadow-Meadow-Meadow-Meadow - Tillage: Soybeans are no-tilled into the meadow leaving at least 50% of the ground covered by residue after planting. Soybean stubble is spring field cultivated before planting corn, leaving at least 20% residue after planting. Soybeans are then no-tilled into the corn stalks leaving at least 20% of the ground covered by residue after planting soybeans. Soybean stubble is lightly fall disked and then spring field cultivated before broadcast seeding oats and harrowing, leaving at least 10% of the ground covered by residue after planting. - Contouring required. - Anhydrous may be applied in the fall. Temp #14</p>	<p>managements\CMZ 04\c.Other Local Mgt Records\Soybeans NT, spr fcult Corn, NT Beans,spr disk, spr fcult broad- Oats alfalfa seeding harrow - Alfalfa Hay 5yr, 3 cut, 4 tons/acre z4 temp14#2</p>	<p>contour-systems\b. absolute row grade 2 percent</p>	<p>-- none --</p>	<p>-- none --</p>	<p>5.8</p>
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<b>E Slopes</b>	<b>179E2 t=5 k=.32</b>					
E slopes	Grandfathered system - Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 40% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 60% of the ground covered by residue after planting. - Contouring Required - Anhydrous may be applied in the fall. Temp#1	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4 temp1	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	5.1
E slopes	Rotation: Corn-Soybean - Tillage: Corn will be no-tilled leaving at least 45% of the ground covered by residue after planting. Soybeans will be no-tilled leaving at least 70% of the ground covered by residue after planting. - Contouring not required - Anhydrous may be applied in the fall. Temp#2	managements\CMZ 04\c.Other Local Mgt Records\corn grain;High Yield NT,anhyd, Soybean;wr, NT z4updown temp2	contour-systems\a. rows up-and-down hill	-- none --	-- none --	5.0
E slopes	Rotation: Corn-Soybean - Tillage: Corn will be strip-tilled into soybean stubble leaving at least 60% of the ground covered by residue after planting. Soybeans will be no-tilled into corn stalks leaving at least 80% of the ground covered by residue after planting. - Contouring required - Anhydrous may be applied in the fall. Strip-till may be done in the fall. Temp #6	managements\CMZ 04\c.Other Local Mgt Records\Corn FallStrip till fall anhy high yield- Soybeans wr NTz4 temp6	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	4.5
E slopes	Rotation: Corn-Soybean complete No-till with rye cover crop - Tillage: Rye Cover is aerial applied into standing soybeans. Rye cover crop is sprayed to kill the cover crop before planting. Corn is No-tilled into soybean stubble leaving at least 40% of the ground covered by residue after planting. Rye Cover is aerial applied into standing Corn at Black layer. Beans are No-tilled into living rye cover crop leaving at least 75% of the ground covered by residue after planting. Rye cover crop is sprayed to kill the cover crop before crop emerges - Anhydrous to be applied in the spring - Contouring not required. Temp #9	managements\CMZ 04\c.Other Local Mgt Records\Soybeans; wr, aerial rye; NT; corn grain high yield, aerial rye; NT z4 temp9	contour-systems\a. rows up-and-down hill	-- none --	-- none --	3.8

E slopes	<p>Rotation: Soybean-Corn-Oat-Meadow-Meadow-Meadow - Tillage: the meadow is sprayed to kill it and soybeans are no-tilled into the meadow leaving at least 45% of the ground covered by residue after planting. Corn is no-tilled into the soybean stubble leaving at least 50% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 70% of the ground covered by residue after planting. - Planting and operations will be at a 4% row grade. - Anhydrous may be applied in the fall. Temp #11</p>	<p>managements\CMZ 04\c.Other Local Mgt Records\Soybeans NT into Meadoow, Corn NTinto Bean stub, fall anhy, Spr fcult- Oats alflafa seeding Alfalfa Hay 3yr, 3 cut, 4 tons/acre z4 temp11</p>	<p>contour-systems\b. absolute row grade 4 percent</p>	<p>-- none --</p>	<p>-- none --</p>	<p>5.0</p>
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Customer: \_\_\_\_\_

Farm # \_\_\_\_\_

Tract # \_\_\_\_\_

Ephemeral gullies are concentrated flow channels formed when rills converge to form shallow channels. They are alternately filled with soil by tillage operations and re-formed in the same general location by subsequent runoff events. Ephemeral gully erosion **must be controlled** in all fields in order to remain eligible for Farm Program benefits.

The following practices can control ephemeral erosion when established and maintained in the proper location:  
Your local NRCS staff will provide assistance with layout and design of these practices upon request.

- Field Border: a strip of permanent vegetation established at the edge or around the perimeter of a field
- Grassed Waterway: a natural or constructed channel that is shaped or graded to required dimensions and established in suitable vegetation for the stable conveyance of runoff
- Terrace: an earth embankment, or a combination ridge and channel constructed across the field slope
- Water and Sediment Control Basin: an earth embankment or a combination ridge and channel generally constructed across the slope and minor watercourses to form sediment trap and water detention basin

\_\_\_\_\_  
Participant Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Designated Conservationist

\_\_\_\_\_  
Date

\_\_\_\_\_  
SWCD Commissioner

\_\_\_\_\_  
Date

Warren County, Iowa