

IOWA RUSLE2 COMPLIANCE PLAN

RUSLE2 SOFTWARE DETAILS

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

Inputs:

<i>Owner name</i>	<i>Location</i>	<i>Tract #</i>
Marion Co. Templates - D & E Slopes	USA\Iowa\Marion 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\Marion County, Iowa\185D2 Bauer silt loam, 9 to 14 percent slopes, moderately eroded\Bauer Silt loam moderately eroded 100%	3.0	200	12
D slopes	soils\Marion County, Iowa\179D2 Gara loam, 9 to 14 percent slopes, moderately eroded\Gara Loam moderately eroded 100%	5.0	200	12
E slopes (Not High Yield)	soils\Marion County, Iowa\185E2 Bauer silt loam, 14 to 18 percent slopes, moderately eroded\Bauer Silt loam moderately eroded 100%	3.0	97	16
E slopes (Not High Yield)	soils\Marion County, Iowa\65E3 Lindley clay loam, 14 to 18 percent slopes, severely eroded\Lindley Clay loam severely eroded 100%	4.0	97	16

Results:

D Slopes	185D2 t=3 k=.43 Not High Yields					
<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)	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 - Planting and operations will be at a 5% row grade. 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\b. absolute row grade 5 percent	-- none -	-- none --	5.5
D slopes (Not High Yield)	Rotation: Soybean-Corn-Oat-Meadow-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 25% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 40% 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 #15	managements\CMZ 04\c.Other Local Mgt Records\Soybeans NT into Meadow, Corn NTinto Bean stub, fall anhy, Spr fcult- Oats alfalfa seeding Alfalfa Hay 4yr, 3 cut, 4 tons/acre z4 temp15NHY	contour-systems\b. absolute row grade 5 percent	-- none -	-- none --	5.8

D Slopes	179D2 t=5 k=.32					
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 --	4.2
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. - Planting and operations will be at a 5% row grade. - 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 5 percent	-- none --	-- none --	5.0
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 --	3.1

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 --	5.0
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 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\ b. absolute row grade 2 percent	-- none --	-- none --	5.0

E Slopes	185E2 t=3 k=.43 Not High Yields					
E slopes (Not High Yield)	Rotation: Soybean-Corn-Oat-Meadow-Meadow-Meadow-Meadow-Meadow - Tillage: the meadow is sprayed to kill it and soybeans are no-tilled into the meadow leaving at least 50% of the ground covered by residue after planting. Corn is no-tilled into the soybean stubble leaving at least 30% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 45% of the ground covered by residue after planting. - Contouring required. - Anhydrous may be applied in the fall. Temp #16	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 5yr, 3 cut, 4 tons/acre z4 temp16NHY	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	5.9

E Slopes	65E3 t=4 k=.32 Not High Yields					
E 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 --	6.2
E 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 --	4.7
E slopes (Not High Yield)	Rotation: Soybean-Corn-Oat-Meadow-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 30% of the ground covered by residue after planting. Corn stalks are spring field cultivated before seeding oats leaving at least 45% of the ground covered by residue after planting. - Contouring required. - Anhydrous may be applied in the fall. Temp #15	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 4yr, 3 cut, 4 tons/acre z4 temp15NHY	contour-systems\b. absolute row grade 2 percent	-- none --	-- none --	5.2

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