

## RUSLE2 Worksheet Erosion Calculation Record

Info: Rotation is one year of spring disced corn grain, one year of no-till spring oats, and one year of no-till sorghum grain. The average soil loss rate over the rotation is 2.71 T/A/yr.

**Inputs: T 1614 F 1**

<b>Owner name</b>	<b>Location</b>	--
McCoy	USA\Pennsylvania\Lycoming County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\LkC Leck kill channery silt loam, 8 to 15 percent slopes\Leck Kill Channery silt loam 90%	3.0	90	13

**Outputs:**

Base management	Description	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Soil loss erod. portion, t/ac/yr	Soil detachment, t/ac/yr	Cons. plan. soil loss, t/ac/yr	Sed. delivery, t/ac/yr
CMZ 65\A. Single Year/ Single Crop Templates\corn grain\Corn, grain; sdos, z65		b. absolute row grade 1 percent	(none)	(none)	5.7	5.7	5.7	5.7
CMZ 65\A. Single Year/ Single Crop Templates\small grains\spring small grain\oats, spring; nt, z65		b. absolute row grade 1 percent	(none)	(none)	0.92	0.92	0.92	0.92
CMZ 65\A. Single Year/ Single Crop Templates\sorghum\grain sorghum\sorghum, gr, wr; nt, z65		b. absolute row grade 1 percent	(none)	(none)	1.5	1.5	1.5	1.5

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Info: Rotation is one year of no-till corn grain, one year of no-till spring oats, and one year of no-till sorghum grain. The average soil loss rate over the rotation is 1.25 T/A/yr.

**Inputs: T 1614 F 2**

<i>Owner name</i>	<i>Location</i>	<i>--</i>
McCoy	USA\Pennsylvania\Lycoming County	

<i>Location</i>	<i>Soil</i>	<i>T value</i>	<i>Slope length (horiz)</i>	<i>Avg. slope steepness, %</i>
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\LkC Leck kill channery silt loam, 8 to 15 percent slopes\Leck Kill Channery silt loam 90%	3.0	50	21

**Outputs:**

<i>Base management</i>	<i>Description</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Soil loss erod. portion, t/ac/yr</i>	<i>Soil detachment, t/ac/yr</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Sed. delivery, t/ac/yr</i>
CMZ 65\A. Single Year/ Single Crop Templates\corn grain\Corn, grain; nt, z65		b. absolute row grade 1 percent	(none)	(none)	0.56	0.56	0.56	0.56
CMZ 65\A. Single Year/ Single Crop Templates\small grains\spring small grain\oats, spring; nt, z65		b. absolute row grade 1 percent	(none)	(none)	1.1	1.1	1.1	1.1
CMZ 65\A. Single Year/ Single Crop Templates\sorghum\grain sorghum\sorghum, gr, wr; nt, z65		b. absolute row grade 1 percent	(none)	(none)	2.1	2.1	2.1	2.1

## RUSLE2 Worksheet Erosion Calculation Record

Info: Rotation is one year of spring disced corn grain, one year of no-till spring oats, and one year of no-till sorghum grain. The average soil loss rate over the rotation is 2.85 T/A/yr.

**Inputs: T 1614 F 3**

<i>Owner name</i>	<i>Location</i>	<i>--</i>
McCoy	USA\Pennsylvania\Lycoming County	

<i>Location</i>	<i>Soil</i>	<i>T value</i>	<i>Slope length (horiz)</i>	<i>Avg. slope steepness, %</i>
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\LkC Leck kill channery silt loam, 8 to 15 percent slopes\Leck Kill Channery silt loam 90%	3.0	80	14

**Outputs:**

<i>Base management</i>	<i>Description</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Soil loss erod. portion, t/ac/yr</i>	<i>Soil detachment, t/ac/yr</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Sed. delivery, t/ac/yr</i>
CMZ 65\A. Single Year/ Single Crop Templates\corn grain\Corn, grain; sdos, z65		b. absolute row grade 1 percent	(none)	(none)	6.0	6.0	6.0	6.0
CMZ 65\A. Single Year/ Single Crop Templates\small grains\spring small grain\oats, spring; nt, z65		b. absolute row grade 1 percent	(none)	(none)	0.95	0.95	0.95	0.95
CMZ 65\A. Single Year/ Single Crop Templates\sorghum\grain sorghum\sorghum, gr, wr; nt, z65		b. absolute row grade 1 percent	(none)	(none)	1.6	1.6	1.6	1.6

## RUSLE2 Worksheet Erosion Calculation Record

Info: Rotation is one year of no-till corn grain, one year of no-till spring oats, and one year of no-till sorghum grain. The average soil loss rate over the rotation is 0.94 T/Ac/yr.

**Inputs: T 1614 F 4**

<b>Owner name</b>	<b>Location</b>	--
McCoy	USA\Pennsylvania\Lycoming County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\WkE Weikert and Klinesville shaly silt loams, 25 to 80 percent slopes\Klinesville Channery silt loam 35%	2.0	50	19

**Outputs:**

Base management	Description	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Soil loss erod. portion, t/ac/yr	Soil detachment, t/ac/yr	Cons. plan. soil loss, t/ac/yr	Sed. delivery, t/ac/yr
CMZ 65\va. Single Year/ Single Crop Templates\corn grain\Corn, grain; nt, z65		b. absolute row grade 1 percent	(none)	(none)	0.40	0.40	0.40	0.40
CMZ 65\va. Single Year/ Single Crop Templates\small grains\spring small grain\oats, spring; nt, z65		b. absolute row grade 1 percent	(none)	(none)	0.91	0.91	0.91	0.91
CMZ 65\va. Single Year/ Single Crop Templates\sorghum\grain sorghum\sorghum, gr, wr; nt, z65		b. absolute row grade 1 percent	(none)	(none)	1.5	1.5	1.5	1.5

## RUSLE2 Worksheet Erosion Calculation Record

Info: Rotation is one year of spring plowed corn silage, one year of no-till spring oats, and 5 years of fall planted no-till seeded alfalfa grass mix. The average soil loss rate over the rotation is 1.29 T/A/yr.

**Inputs: T 1614 F 5**

Owner name	Location	--
McCoy	USA\Pennsylvania\Lycoming County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\LkC Leck kill channery silt loam, 8 to 15 percent slopes\Leck Kill Channery silt loam 90%	3.0	50	23

**Outputs:**

Base management	Description	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Soil loss erod. portion, t/ac/yr	Soil detachment, t/ac/yr	Cons. plan. soil loss, t/ac/yr	Sed. delivery, t/ac/yr
CMZ 65\a. Single Year/ Single Crop Templates\corn silage\Corn, silage; sp, z65		b. absolute row grade 1 percent	(none)	(none)	7.8	7.8	7.8	7.8
CMZ 65\a. Single Year/ Single Crop Templates\small grains\spring small grain\oats, spring; nt, z65		b. absolute row grade 1 percent	(none)	(none)	1.2	1.2	1.2	1.2
CMZ 65\a. Single Year/ Single Crop Templates\forage systems\alfalfa grass fall seed\alfalfa grass fs 5yr; fnt z65		b. absolute row grade 1 percent	(none)	(none)	0.0093	0.0093	0.0093	0.0093