

## RUSLE2 Worksheet Erosion Calculation Record

Info: Minimum rotation to meet "T" is alternating years of no-till corn grain and no-till soybeans with four years of spring seeded cool season grass hay. The average soil loss rate is 0.5 T/Ac/yr. Removing hay from the rotation has a soil loss rate of 1.1 T/ac/yr., which can be rounded down to 1.0 T/A/yr. within the guidelines of RUSLE2.

**Inputs: Snyder T 3015 F 1**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\WeD Weikert channery silt loam, 15 to 25 percent slopes\Weikert Channery silt loam 85%	1.0	50	21

**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; nt, z65		b. absolute row grade 2 percent	(none)	(none)	0.49	0.49	0.49	0.49
CMZ 65\A. Single Year/ Single Crop Templates\soybeans\soybeans drilled\soybeans, nr; nt, z65		b. absolute row grade 2 percent	(none)	(none)	1.7	1.7	1.7	1.7
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\cool season grass sp seed\coolgrass ss 4yr; snt z65		b. absolute row grade 2 percent	(none)	(none)	0.13	0.13	0.13	0.13

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Info: Minimum rotation to meet "T" is alternating years of no-till corn grain and no-till soybeans with four years of spring no-till seeded cool season grass hay. The average soil loss rate is 0.6 T/Ac/yr.

**Inputs: Snyder T 3015 F 2**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\AvC Alvira silt loam, 8 to 15 percent slopes\Alvira Silt loam 80%	3.0	80	14

**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; scswp, z65		b. absolute row grade 2 percent	(none)	(none)	5.7	5.7	5.7	5.7
CMZ 65\A. Single Year/ Single Crop Templates\soybeans\soybeans drilled\soybeans, nr; nt, z65		b. absolute row grade 2 percent	(none)	(none)	2.4	2.4	2.4	2.4
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\cool season grass sp seed\coolgrass ss 4yr; snt z65		b. absolute row grade 2 percent	(none)	(none)	0.17	0.17	0.17	0.17

## RUSLE2 Worksheet Erosion Calculation Record

Info: Minimum rotation to meet "T" is alternating years of chiseled corn grain and no-till soybeans with four years of spring no-till seeded cool season grass hay. The average soil loss rate is 1.1 T/Ac/yr. Removing the hay from the rotation would bring the soil loss rate to 3.0 T/ac/yr.

**Inputs: Snyder T 3015 F 3**

<i>Owner name</i>	<i>Location</i>	<i>--</i>
Snyder	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\WbC Watson silt loam, 8 to 15 percent slopes\Watson Silt loam 90%	4.0	110	11

**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; scswp, z65		b. absolute row grade 2 percent	(none)	(none)	4.2	4.2	4.2	4.2
CMZ 65\A. Single Year/ Single Crop Templates\soybeans\soybeans drilled\soybeans, nr; nt, z65		b. absolute row grade 2 percent	(none)	(none)	1.7	1.7	1.7	1.7
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\cool season grass sp seed\coolgrass ss 4yr; snt z65		b. absolute row grade 2 percent	(none)	(none)	0.12	0.12	0.12	0.12

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Info: Minimum rotation to meet "T" is alternating years of chiseled corn grain and no-till soybeans with four years of spring seeded cool season grass hay. The average soil loss rate is 1.0 T/Ac/yr. Removing hay from the rotation has a soil loss rate of 2.6 T/ac/yr.

**Inputs: T 3015 F 4**

<i>Owner name</i>	<i>Location</i>	<i>--</i>
Snyder	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\WeD Weikert channery silt loam, 15 to 25 percent slopes\Weikert Channery silt loam 85%	1.0	50	19

**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; scswp, z65		b. absolute row grade 2 percent	(none)	(none)	3.7	3.7	3.7	3.7
CMZ 65\A. Single Year/ Single Crop Templates\soybeans\soybeans drilled\soybeans, nr; nt, z65		b. absolute row grade 2 percent	(none)	(none)	1.5	1.5	1.5	1.5
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\cool season grass sp seed\coolgrass ss 4yr; snt z65		b. absolute row grade 2 percent	(none)	(none)	0.12	0.12	0.12	0.12