

## RUSLE2 Worksheet Erosion Calculation Record

Info: T 1675 F 1- One year of no-till sorghum silage followed by four years of no-till spring planted alfalfa/grass mix has an average soil loss value of 2.62 T/A/yr.

**Inputs:**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\OgC Oquaga channery loam, 8 to 15 percent slopes\Oquaga Channery loam 85%	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\sorghum\silage sorghum\sorghum silage; wr; nt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	9.8	9.8	9.8	9.8
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	0.83	0.83	0.83	0.83

## RUSLE2 Worksheet Erosion Calculation Record

Info: T 1675 F 2- One year of no-till sorghum silage followed by four years of no-till spring planted alfalfa/grass mix has an average soil loss value of 3.48 T/A/yr., which can be rounded down to 3 T/Ac/yr. Use the guidelines of RUSLE2.

**Inputs:**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\OgC Oquaga channery loam, 8 to 15 percent slopes\Oquaga Channery loam 85%	3.0	70	15

**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\sorghum\silage sorghum\sorghum silage; wr; nt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	11	11	11	11
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	0.94	0.94	0.94	0.94

**RUSLE2 Worksheet Erosion Calculation Record**

Info: T 1675 F 3- One year of no-till sorghum silage followed by four years of no-till spring planted alfalfa/grass mix has an average soil loss value of 2.95 T/A/yr.

**Inputs:**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\OgC Oquaga channery loam, 8 to 15 percent slopes\Oquaga Channery loam 85%	3.0	70	15

**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\sorghum\silage sorghum\sorghum silage; wr; nt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	11	11	11	11
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	0.94	0.94	0.94	0.94

## RUSLE2 Worksheet Erosion Calculation Record

Info: T 1675 F 4- One year of no-till sorghum silage followed by four years of no-till spring planted alfalfa/grass mix has an average soil loss value of 1.17 T/A/yr.

**Inputs:**

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

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\WIB Wellsboro channery silt loam, 3 to 8 percent slopes\Wellsboro Channery silt loam 85%	4.0	140	7.0

**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\sorghum\silage sorghum\sorghum silage; wr; nt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	4.4	4.4	4.4	4.4
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	0.36	0.36	0.36	0.36

**RUSLE2 Worksheet Erosion Calculation Record**

Info: T 1675 F 5- One year of no-till sorghum silage followed by four years of no-till spring planted alfalfa/grass mix has an average soil loss value of 2.91 T/A/yr.

**Inputs:**

<b>Owner name</b>	<b>Location</b>	--
Gavitt	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\OgC Oquaga channery loam, 8 to 15 percent slopes\Oquaga Channery loam 85%	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\sorghum\silage sorghum\sorghum silage; wr; nt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	11	11	11	11
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		d. relative row grade 2 percent of slope grade	(none)	(none)	0.89	0.89	0.89	0.89