

RUSLE2 Worksheet Erosion Calculation Record

Info: Schrack T 462 F 1- Rotation needed to meet baseline for tillage is 8 years of no-till corn silage with manure and 4 years of alfalfa that receives manure and is planted with a grain nurse crop. Average soil loss rate is 2.2 T/ac/yr.

Inputs:

Owner name	Location	--
Schrack	USA\Pennsylvania\Clinton County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Clinton County	Clinton County, PA 2014\BuB Buchanan-Andover gravelly loams, 3 to 8 percent slopes\Buchanan Silt loam 45%	4.0	130	8.0

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\corn silage w/manure\liquid surface\Corn, silage, fmanl; nt, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	3.0	3.0	3.0	3.0
CMZ 65\A. Single Year/ Single Crop Templates\corn silage w/manure\liquid surface\Corn, silage, fmanl; nt, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	3.0	3.0	3.0	3.0
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	0.49	0.49	0.46	0.46

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Info: Schrack T 462 F 2- Rotation needed to meet baseline for tillage is 8 years of no-till corn silage with manure and 4 years of alfalfa that receives manure and is planted with a grain nurse crop. Average soil loss rate is 3.2 T/ac/yr.

Inputs:

Owner name	Location	--
Schrack	USA\Pennsylvania\Clinton County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Clinton County	Clinton County, PA 2014\HeB Hagerstown silt loam, 3 to 8 percent slopes\Hagerstown Silt loam 85%	5.0	130	8.0

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\corn silage w/manure\liquid surface\Corn, silage, fmanl; nt, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	4.5	4.5	4.5	4.5
CMZ 65\A. Single Year/ Single Crop Templates\corn silage w/manure\liquid surface\Corn, silage, fmanl; nt, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	4.5	4.5	4.5	4.5
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	0.61	0.61	0.57	0.57

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Info: Schrack T 462 F 3- Rotation needed to meet baseline for tillage is 8 years of disced corn silage with manure and 4 years of alfalfa that receives manure and is planted with a grain nurse crop. Average soil loss rate is 5.2 T/ac/yr, which can be rounded down to 5.0 T/A/yr within the guidelines of RUSLE2.

Inputs:

Owner name	Location	--
Schrack	USA\Pennsylvania\Clinton County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Clinton County	Clinton County, PA 2014\Pc Philo-Linden silt loams\Philo Silt loam 45%	5.0	180	4.0

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\corn silage w/manure\liquid surface\Corn, silage, fmanl; fdos, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	7.7	7.7	7.7	7.7
CMZ 65\a. Single Year/ Single Crop Templates\corn silage w/manure\liquid surface\Corn, silage, fmanl; fdos, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	7.7	7.7	7.7	7.7
CMZ 65\a. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	0.37	0.37	0.34	0.34

RUSLE2 Worksheet Erosion Calculation Record

Info: Schrack T 462 F 4- Rotation needed to meet baseline for tillage is 8 years of disced corn silage with manure and 4 years of alfalfa that receives manure and is planted with a grain nurse crop. Average soil loss rate is 5.3 T/ac/yr, which can be rounded down to 5.0 T/A/yr. within the guidelines of RUSLE2.

Inputs:

Owner name	Location	--
Schrack	USA\Pennsylvania\Clinton County	

Location	Soil	T value	Slope length (horiz)	Avg. slope steepness, %
USA\Pennsylvania\Clinton County	Clinton County, PA 2014\HeB Hagerstown silt loam, 3 to 8 percent slopes\Hagerstown Silt loam 85%	5.0	180	4.0

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\corn silage w/manure\liquid surface\Corn, silage, fmanl; fdos, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	7.8	7.8	7.8	7.8
CMZ 65\A. Single Year/ Single Crop Templates\corn silage w/manure\liquid surface\Corn, silage, fmanl; fdos, z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	7.8	7.8	7.8	7.8
CMZ 65\A. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed & nurse grain\alfalfa grass ss nurgr 4yr; snt z65		b. absolute row grade 2 percent	Strip cropping\2strip rotational 0-1	(none)	0.36	0.36	0.34	0.34