USDA NRCS Natural Resources Conservation Service

RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 F 1 is farmed with all crops being no-till planted. Two years of spring plowed corn grain, one year or no-till wheat, and five years of no-till spring planted alfalfa/grass mix has an average soil loss value of 1.34 T/A/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeC Berks channery silt loam, 8 to 15 percent slopes\Berks channery silt loam 100%	3.0	89	17.0

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 grain\Corn, grain; sp, rc2, z65		b. absolute row grade 0.1 percent	Strip cropping\2strip rotational 0-1	(none)	4.23	4.23	4.23	4.23
CMZ 65\a. Single Year/ Single Crop Templates\corn grain\Corn, grain; sp, rc2, z65		b. absolute row grade 0.1 percent	Strip cropping\2strip rotational 0-1	(none)	4.23	4.23	4.23	4.23
CMZ 65\a. Single Year/ Single Crop Templates\small grains\spring small grain\wheat/bar, spring; nt, z65		b. absolute row grade 0.1 percent	Strip cropping\2strip rotational 0-1	(none)	1.65	1.65	1.65	1.65
CMZ 65\a. Single Year/ Single Crop Templates\forage systems\alfalfa grass sp seed\alfalfa grass ss 5yr; snt z65		b. absolute row grade 0.1 percent	Strip cropping\2strip rotational 0-1	(none)	0.310	0.310	0.298	0.298

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 2 is used as a hayfield for one cutting per year. It is grazed after that cutting. Worst case scenario of fall plowing and seeding every two years results in an average soil loss rate of 1.06 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	160	15.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.06	1.06	1.06	1.06

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 3 is used as a hayfield for one cutting per year. It is grazed after that cutting. Worst case scenario of fall plowing and seeding every two years results in an average soil loss rate of 1.00 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	59	17.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.00	1.00	1.00	1.00

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 6 and 7 are used exclusively as a pasture. Worst case scenario is spring reseeding every 2 years using no-till plantings has an average soil loss rate of 1.48 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	300	18.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.48	1.48	1.48	1.48

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 8 is used exclusively as a pasture. Worst case scenario is spring reseeding every 2 years using no-till plantings has an average soil loss rate of 1.48 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	48	27.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.51	1.51	1.51	1.51

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 9 is used exclusively as a pasture. Worst case scenario is spring reseeding every 2 years using no-till plantings has an average soil loss rate of 1.46 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	48	26.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.46	1.46	1.46	1.46

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 P 10 is used exclusively as a pasture. Worst case scenario is spring reseeding every 2 years using no-till plantings has an average soil loss rate of 1.08 T/Ac/yr.

Inputs:

Owner name	*Location*	*--*
London	**USA\Pennsylvania\Lycoming County**	

Location	*Soil*	*T value*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Pennsylvania\Lycoming County	Lycoming County, Pennsylvania\BeD Berks channery silt loam, 15 to 25 percent slopes\Berks channery silt loam 100%	3.0	49	19.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	1.08	1.08	1.08	1.08

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RUSLE2 Worksheet Erosion Calculation Record

Info: T 1223 F 11 is used exclusively as a pasture. Worst case scenario is spring reseeding every 2 years using no-till plantings has an average soil loss rate of 2.24 T/Ac/yr., which rounds down to 2 T/Ac/yr. under the guidelines of RUSLE2.

Inputs:

Owner name	*Location*	*--*
London	**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	48	31.0

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\forage systems\alfalfa sp seed\alfalfa ss 2yr; snt z65		a. rows up-and-down hill	(none)	(none)	2.24	2.24	2.24	2.24