

RUSLE2 Erosion Calculation Record

Bishcroft Farm LLC T 7316

Inputs:

Owner name	Location	Info
Bishcroft Farm LLC	Pennsylvania\Tioga County	F 1 and 2 credits are generated for conservation tillage, no-till and rye. Fields 3, 9, 10, 11, 12 and 13 credits are generated for rye only. Field 13 A credits are for no-till. All fields, except F 13 have a rotation of 5 years of corn followed by 3 years of hay. Field 13's rotation is 4 years of corn and 4 years of hay. he even length strips in F 1 (30.3 ac) also has a rotation of 4 years corn and 4 years hay.

Field name	Soil	Slope T Value	Slope length, ft	Slope steepness, %
1 (9.8 ac)	Tioga County, Pennsylvania\MaB Mardin channery silt loam, 3 to 8 percent slopes\Mardin channery silt loam 85%	3.0	250	6.0
1(30.3ac)	Tioga County, Pennsylvania\MaB Mardin channery silt loam, 3 to 8 percent slopes\Mardin channery silt loam 85%	3.0	200	6.0
2	Tioga County, Pennsylvania\MaB Mardin channery silt loam, 3 to 8 percent slopes\Mardin channery silt loam 85%	3.0	250	6.0
3	Tioga County, Pennsylvania\LoB Lordstown channery loam, 3 to 12 percent slopes\Lordstown channery loam 100%	3.0	200	8.0
9	Tioga County, Pennsylvania\WeC Wellsboro channery loam, 8 to 15 percent slopes\Wellsboro channery loam 85%	3.0	200	10
10	Tioga County, Pennsylvania\LoC Lordstown channery loam, 12 to 20 percent slopes\Lordstown channery loam 100%	3.0	150	12
11 and 12	Tioga County, Pennsylvania\LoB Lordstown channery loam, 3 to 12 percent slopes\Lordstown channery loam 100%	3.0	150	10
13	Tioga County, Pennsylvania\LoC Lordstown channery loam, 12 to 20 percent slopes\Lordstown channery loam 100%	3.0	240	12
13 A	Tioga County, Pennsylvania\LoB Lordstown channery loam, 3 to 12 percent slopes\Lordstown channery loam 100%	3.0	150	5.0

Results:

<i>Field name</i>	<i>Description</i>	<i>Management</i>	<i>Contouring system</i>	<i>Support practices</i>	<i>Terrace/diversion system</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Sed. delivery</i>	<i>Fuel cost, US\$/ac</i>
1 (9.8 ac)	Spring plowed corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs sp cs 3 yrs hay	b. absolute row grade 0.8 percent	Strip cropping\4-strip rotational 0-3-0-3	-- none --	2.4	2.4	172.7
1 (30.3 ac)	Spring plowed corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 4 yrs sp cs 4 yrs hay	b. absolute row grade 0.8 percent	Strip cropping\4-strip rotational 0-3-0-3	-- none --	2.3	2.3	172.7
2	Spring plowed corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs sp cs 3 yrs hay	b. absolute row grade 0.8 percent	Strip cropping\4-strip rotational 0-3-0-3	-- none --	2.2	2.2	172.7
3	No-till corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs nt cs 3 yrs hay	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	112.3
9	No-till corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs nt cs 3 yrs hay	b. absolute row grade 3 percent	-- none --	-- none --	1.5	1.5	112.3
10	No-till corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs nt cs 3 yrs hay	b. absolute row grade 4 percent	-- none --	-- none --	2.4	2.4	112.3
11 and 12	No-till corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs nt cs 3 yrs hay	b. absolute row grade 4 percent	-- none --	-- none --	1.9	1.9	112.3
13	No-till corn meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 4 yrs nt cs 4 yrs hay	b. absolute row grade 1 percent	Strip cropping\3-strip rotational 0-	-- none --	1.3	1.3	127.0
13 A	Spring disced corn with rye meets "T"	CMZ 65\c.Other Local Mgt Records\Bish man 5 yrs sdos cs/rye 3 yrs hay	b. absolute row grade 1 percent	-- none --	-- none --	2.0	2.0	143.2