

RUSLE2 Profile Erosion Calculation Record

Info: T4316- 28, 29

File: Cold Springs Farm 238-08012A

Inputs:

Location: Illinois\Jo Daviess County

Soil: 274D2 Seaton silt loam, 10 to 15 percent slopes, eroded\Seaton silt loam 100%

Slope length (horiz): 74 ft

Avg. slope steepness: 12 %

<i>Management</i>	<i>Vegetation</i>	<i>Yield units</i>	<i>Yield (# of units)</i>
CMZ 04\c.Other Local Mgt Records\Alfalfa brome with oats nurse crop; grain, manure, 3x, FC, st pt, fcult,JoDaviess	Alfalfa brome /oat, seed	bushels	60.000
CMZ 04\c.Other Local Mgt Records\Alfalfa brome with oats nurse crop; grain, manure, 3x, FC, st pt, fcult,JoDaviess	Alfalfa brome /oat, harv to yr2 1st cut	tons	1.0000
CMZ 04\c.Other Local Mgt Records\Alfalfa brome with oats nurse crop; grain, manure, 3x, FC, st pt, fcult,JoDaviess	Alfalfa brome, yr2 regrowth after cut	tons	1.7500
CMZ 04\c.Other Local Mgt Records\Alfalfa brome with oats nurse crop; grain, manure, 3x, FC, st pt, fcult,JoDaviess	Alfalfa brome, yr2 regrowth after cut	tons	1.7500
CMZ 04\c.Other Local Mgt Records\Alfalfa brome with oats nurse crop; grain, manure, 3x, FC, st pt, fcult,JoDaviess	Alfalfa brome, yr2 senes to yr3 regrowth	tons	2.5000
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Contouring: a. rows up-and-down hill

Strips/barriers: (none)

Diversion/terrace, sediment basin: (none)

Subsurface drainage: (none)

Adjust res. burial level: bury 10% more than normal

Outputs:

T value: 5.0 t/ac/yr

Soil loss erod. portion: 0.88 t/ac/yr

Detachment on slope: 0.88 t/ac/yr

Soil loss for cons. plan: 0.88 t/ac/yr

Sediment delivery: 0.88 t/ac/yr

Crit. slope length: -- ft

Surf. cover after planting: -- %

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
11/1/0	Chisel, st. pt.		38
4/10/1	Cultivator, field 6-12 in sweeps		46
4/10/1	Drill or airseeder, double disk	Alfalfa brome /oat, seed	46
7/25/1	Harvest, killing crop 50pct standing stubble		77
7/26/1	Begin growth	Alfalfa brome /oat, harv to yr2 1st cut	76
6/1/2	Harvest, hay, legume	Alfalfa brome, yr2 regrowth after cut	76
7/15/2	Harvest, hay, legume	Alfalfa brome, yr2 regrowth after cut	73
7/15/2	Manure spreader, solid and semi-solid		73
9/1/2	Harvest, hay, legume	Alfalfa brome, yr2 senes to yr3 regrowth	69
6/1/3	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	79
7/15/3	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	67
7/15/3	Manure spreader, solid and semi-solid		67
9/1/3	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	59
6/1/4	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	68
7/15/4	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	58
7/15/4	Manure spreader, solid and semi-solid		58
9/1/4	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	58
9/1/4	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	58