

## RUSLE2 Profile Erosion Calculation Record

Info: t4316- 82A, 82B

**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): 99 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\corn grain;Hay; strip crop JoDaviess	Corn, grain	bushels	172.00
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CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Corn, grain	bushels	172.00
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome /oat, seed	bushels	80.000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome /oat, harv to yr2 1st cut	tons	1.5000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr2 regrowth after cut	tons	1.5000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr2 regrowth after cut	tons	1.5000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr2 senes to yr3 regrowth	tons	2.2500
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 regrowth after cut	tons	1.7000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 regrowth after cut	tons	1.7000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 senes to yr4 regrowth	tons	2.5000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 regrowth after cut	tons	1.7000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 regrowth after cut	tons	1.7000
CMZ 04\c.Other Local Mgt Records\corn grain;Hay; strip crop JoDaviess	Alfalfa brome, yr3 senes to yr4 regrowth	tons	2.5000

Contouring: d. relative row grade 1 percent of slope grade

Strips/barriers: 2strip rotational 0-4

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: 1.3 t/ac/yr

Detachment on slope: 1.3 t/ac/yr

Soil loss for cons. plan: 0.89 t/ac/yr

Sediment delivery: 0.89 t/ac/yr

Crit. slope length: 99 ft

Surf. cover after planting: -- %

<i>Date</i>	<i>Operation</i>	<i>Vegetation</i>	<i>Surf. res. cov. after op, %</i>
10/30/0	Manure spreader, solid and semi-solid		84
11/1/0	Chisel plow, coulter, st. pts.		46
5/5/1	Fert. applic. anhyd knife 30 in		61
5/10/1	Cultivator, field 6-12 in sweeps		48
5/10/1	planter, double disk opnr	Corn, grain	48
10/20/1	Harvest, killing crop 50pct standing stubble		85
10/30/1	Manure spreader, solid and semi-solid		95
11/1/1	Chisel plow, coulter, st. pts.		67
5/10/2	Cultivator, field 6-12 in sweeps		51
5/10/2	planter, double disk opnr	Corn, grain	51
10/20/2	Harvest, killing crop 50pct standing stubble		86
10/31/2	Manure spreader, solid and semi-solid		95
11/1/2	Chisel plow, coulter, st. pts.		68
5/10/3	Cultivator, field 6-12 in sweeps		52
5/10/3	planter, double disk opnr	Corn, grain	52
10/20/3	Harvest, killing crop 50pct standing stubble		86
10/30/3	Manure spreader, solid and semi-solid		96
11/1/3	disk, tandem light finishing		76
4/10/4	Cultivator, field 6-12 in sweeps		59
4/10/4	Drill or airseeder, double disk	Alfalfa brome /oat, seed	59
7/25/4	Harvest, killing crop 50pct standing stubble		85
7/26/4	Begin growth	Alfalfa brome /oat, harv to yr2 1st cut	85
6/1/5	Harvest, hay, legume	Alfalfa brome, yr2 regrowth after cut	86
7/15/5	Harvest, hay, legume	Alfalfa brome, yr2 regrowth after cut	83
9/1/5	Harvest, hay, legume	Alfalfa brome, yr2 senes to yr3 regrowth	78
6/1/6	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	79
7/15/6	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	71
9/1/6	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	63
6/1/7	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	70
7/15/7	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	61
9/1/7	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	54
6/1/1	Harvest, hay, legume	Alfalfa brome, yr2 regrowth after cut	86
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6/1/3	Harvest, hay, legume	Alfalfa brome, yr3 regrowth after cut	70
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9/1/3	Harvest, hay, legume	Alfalfa brome, yr3 senes to yr4 regrowth	54

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