Data Adequacy Supplement

Attachment C

Soils

Erosion Calculation Record

RUSLE2 Expanded Profile Erosion Calculation Record

File: profiles\MSP

Inputs:
Location: San Bernardino county average (San Bernardino)
Soil: sandy loam (l-m OM, m perm) 8% stone cover
Horiz. overland flow path length: 1000 ft
Avg. slope steepness: 0.70 %

Management	*Vegetation*	*Yield units*	*Yield (# of units)*
Fallow Ag			

Contouring: default
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)
Subsurface drainage: (none)
Adjust res. burial level: Normal res. burial

Outputs:
Soil loss erod. portion: 0.58 t/ac/yr
Detachment on slope: 0.58 t/ac/yr
Soil loss for cons. plan: 0.58 t/ac/yr
Sediment delivery: 0.58 t/ac/yr

Crit. slope length:
Surf. cover after planting: 0 %

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
1/1/0	basic/general\no operation		0

RUSLE2 Expanded Profile Erosion Calculation Record

File: profiles\MSP

Inputs:
Location: San Bernardino county average (San Bernardino)
Soil: sandy loam (l-m OM, m perm) 8% stone cover
Horiz. overland flow path length: 1000 ft
Avg. slope steepness: 0.70 %

Management	*Vegetation*	*Yield units*	*Yield (# of units)*
Construction			

Contouring: default
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)
Subsurface drainage: (none)
Adjust res. burial level: Normal res. burial

Outputs:
Soil loss erod. portion: 0.61 t/ac/yr
Detachment on slope: 0.61 t/ac/yr
Soil loss for cons. plan: 0.61 t/ac/yr
Sediment delivery: 0.61 t/ac/yr

Crit. slope length:
Surf. cover after planting: 0 %

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
4/15/0	Highly disturbed land\blade fill material		0

RUSLE2 Expanded Profile Erosion Calculation Record

File: profiles\MSP

Inputs:
Location: San Bernardino county average (San Bernardino)
Soil: sand (l OM, r perm)
Horiz. overland flow path length: 1000 ft
Avg. slope steepness: 0.70 %

Management	*Vegetation*	*Yield units*	*Yield (# of units)*
Operations			

Contouring: default
Strips/barriers: (none)
Diversion/terrace, sediment basin: (none)
Subsurface drainage: (none)
Adjust res. burial level: Normal res. burial

Outputs:
Soil loss erod. portion: 0.066 t/ac/yr
Detachment on slope: 0.066 t/ac/yr
Soil loss for cons. plan: 0.066 t/ac/yr
Sediment delivery: 0.066 t/ac/yr

Crit. slope length:
Surf. cover after planting: 0 %

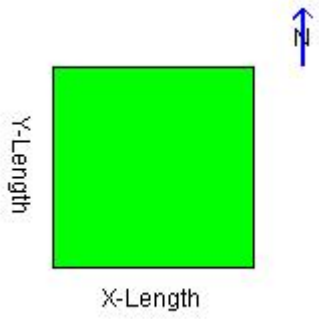
Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
4/15/0	basic/general\no operation		0

Run Summary: Mojave Solar Project_8

NRCS Natural Resources Conservation Service

Run Date: Friday 11 September 2009 11:30 AM
Client Name: Mojave Solar Project
Farm No: --- **Tract No:** --- **Field No:** ---
Run Location: WEPS_Runs
Management: Fallow Ag.man
Soil: Cajon_112_85_S.ifc

Simulation & Site Information



X-Length: 2640.09 ft
Y-Length: 2640.09 ft

Area: 160.01 ac
Elevation: 2056.99 ft
Orientation: 0.00 °

Mode: NRCS
Soil Loss T: 5.0 tn/ac/yr

State: California
County: San Bernardino
Location: 35.0090849° N,

Cligen: RANDSBURG
Windgen: GEORGE AFB/VICTORVI

Erosion

Period	Crop/Residue	Gross Loss tn/ac	Net Soil Loss From Field (tn/ac) Total	Creep/Salt.	Suspension
Rot. year: 1		874.2	874.2	277.3	596.9
Ave. Annual		874.2	874.2	277.3	596.9

SCI Summary

Soil Conditioning Index -68.65
Energy Calculator 0.0 gal diesel/ac
Average Annual STIR 0.5

Wind Erosion Soil Loss 874.3 tn/ac
Water Erosion Soil Loss 0.0 tn/ac

SCI Subfactors

OM	FO	ER
-1.00	1.00	-343.22

Rotation Stir Energy

Date	Operation	Crop	Stir	Energy gal diesel/ac
Jan 01, 01	Graze, stubble or residue 50 pct		0.49	0.0

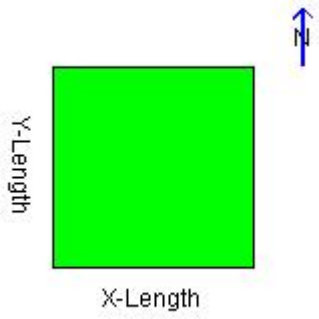
Notes

Run Summary: Mojave Solar Project_10

NRCS Natural Resources Conservation Service

Run Date: Friday 11 September 2009 11:56 AM
Client Name: Mojave Solar Project
Farm No: --- **Tract No:** --- **Field No:** ---
Run Location: WEPS_Runs
Management: Construction.man
Soil: Cajon_112_85_S.ifc

Simulation & Site Information



X-Length: 2640.09 ft
Y-Length: 2640.09 ft

Area: 160.01 ac
Elevation: 2056.99 ft
Orientation: 0.00 °

Mode: NRCS
Soil Loss T: 5.0 tn/ac/yr

State: California
County: San Bernardino
Location: 35.0090849° N,

Cligen: RANDSBURG
Windgen: GEORGE AFB/VICTORVI

Erosion

Period	Crop/Residue	Gross Loss tn/ac	Net Soil Loss From Field (tn/ac) Total	Creep/Salt.	Suspension
Rot. year: 1		700.6	700.5	231.6	468.8
Ave. Annual		700.6	700.5	231.6	468.8

SCI Summary

Soil Conditioning Index -54.99
Energy Calculator 0.9 gal diesel/ac
Average Annual STIR 6.7

Wind Erosion Soil Loss 700.6 tn/ac
Water Erosion Soil Loss 0.0 tn/ac

SCI Subfactors

OM	FO	ER
-1.00	0.93	-274.83

Rotation Stir Energy

Date	Operation	Crop	Stir	Energy gal diesel/ac
Jan 01, 01	Bulldozer, filling-leveling		5.20	0.6
Jan 01, 01	Irrigation (Custom Depth, Border, Furrow)		0.00	0.0
Jan 01, 01	Roller, corrugated packer		1.46	0.3

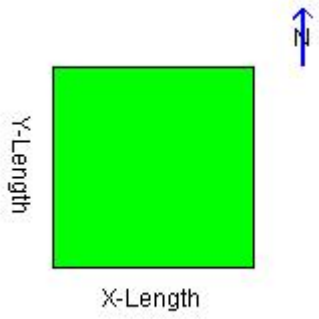
Notes

Run Summary: Mojave Solar Project_12

NRCS Natural Resources Conservation Service

Run Date: Friday 11 September 2009 12:25 PM
Client Name: Mojave Solar Project
Farm No: --- **Tract No:** --- **Field No:** ---
Run Location: WEPS_Runs
Management: Operation.man
Soil: Cajon_112_85_S.ifc

Simulation & Site Information



X-Length: 2640.09 ft
Y-Length: 2640.09 ft

Area: 160.01 ac
Elevation: 2056.99 ft
Orientation: 0.00 °

Mode: NRCS
Soil Loss T: 5.0 tn/ac/yr

State: California
County: San Bernardino
Location: 35.0090849° N,

Cligen: RANDSBURG
Windgen: GEORGE AFB/VICTORVI

Erosion

Period	Crop/Residue	Gross Loss tn/ac	Net Soil Loss From Field (tn/ac) Total	Creep/Salt.	Suspension
Rot. year: 1	water	1.0	1.0	0.5	0.5
Ave. Annual		1.0	1.0	0.5	0.5

SCI Summary

Soil Conditioning Index 0.31
Energy Calculator 0.0 gal diesel/ac
Average Annual STIR 0.0

Wind Erosion Soil Loss 1.0 tn/ac
Water Erosion Soil Loss 0.0 tn/ac

SCI Subfactors

OM	FO	ER
-0.53	1.00	0.60

Rotation Stir Energy

Date	Operation	Crop	Stir	Energy gal diesel/ac
Jan 01, 01	Add Non-Crop Mulch	water	0.00	0.0

Notes