

# Jessour Analysis Spreadsheet

## Data Analysis

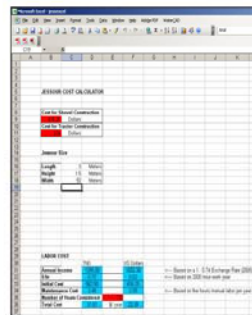
- USLE equation results
- Water runoff results
- Jessour Cost
- Olive Tree Profit

Variable	Value	Unit	Value	Unit	Value	Unit
Annual Soil Loss using USLE Equation	26	t/ha	0.11	CRCO	0.36713	1
Variable	80	mm	0.07	CRS	0.02207	2
Variable	75	mm	0.04	MREH	1.19767	3
Variable	125	mm	0.06	AC3M	3.07079	5
Variable	140	mm	0.08	AC3M	3.18063	6
Variable	175	mm	0.13	STAB	4.74288	7
Variable	200	mm	0.16	AC3M	5.10717	8
Variable	225	mm	0.19	AC3M	6.76184	9
Variable	250	mm	0.22	AC3M	7.26491	10
Variable	275	mm	0.24	AC3M	8.10307	11
Variable	300	mm	0.11	CGM	11.46403	12
Variable	300	mm	0.12	AC3M	11.86676	13
Variable	300	mm	0.12	PEHM	13.30549	14
Variable	300	mm	0.12	PEHM	14.19627	15
Variable	300	mm	0.12	PEHM	16.60394	16
Variable	300	mm	0.12	PEHM	16.36786	17
Variable	300	mm	0.12	PEHM	20.71436	18
Variable	300	mm	0.12	PEHM	22.1481	19
Annual loss annually in Tons/ha	26	t/ha	24	t/ha	24	20

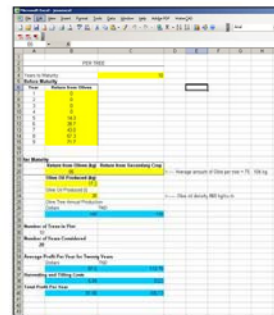
Universal Soil Loss Equation Calculator



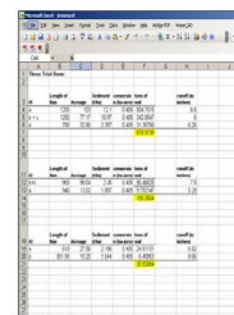
Main Input/Output Screen



Jessour Cost Calculator



Olive Tree Profit Calculator



Sediment Return from WEPP

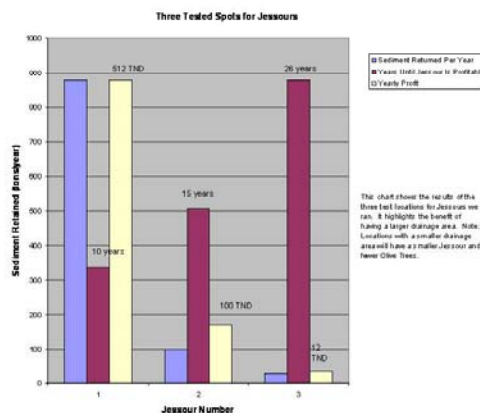


## Benefits of Building a Jessour- Social and Economic Effects

- Increased Crop Yield
- Cheaper total cost of water
- Increased Quality of Life for Farmer
- Prevent Farm Abandonment and large migration to Coastal Big Cities

### Trial Runs:

After creating the method for evaluating the locations of Jessours, we ran three simulations to compare the soil retention of an area on the top, middle, and bottom of a hillslope.



A Computer Model for Evaluating Jessour Design and Location in Arid Regions

### Acknowledgements:

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