

Management of Furrow Irrigated Sugarbeets for Maximum Production and Environmental Protection

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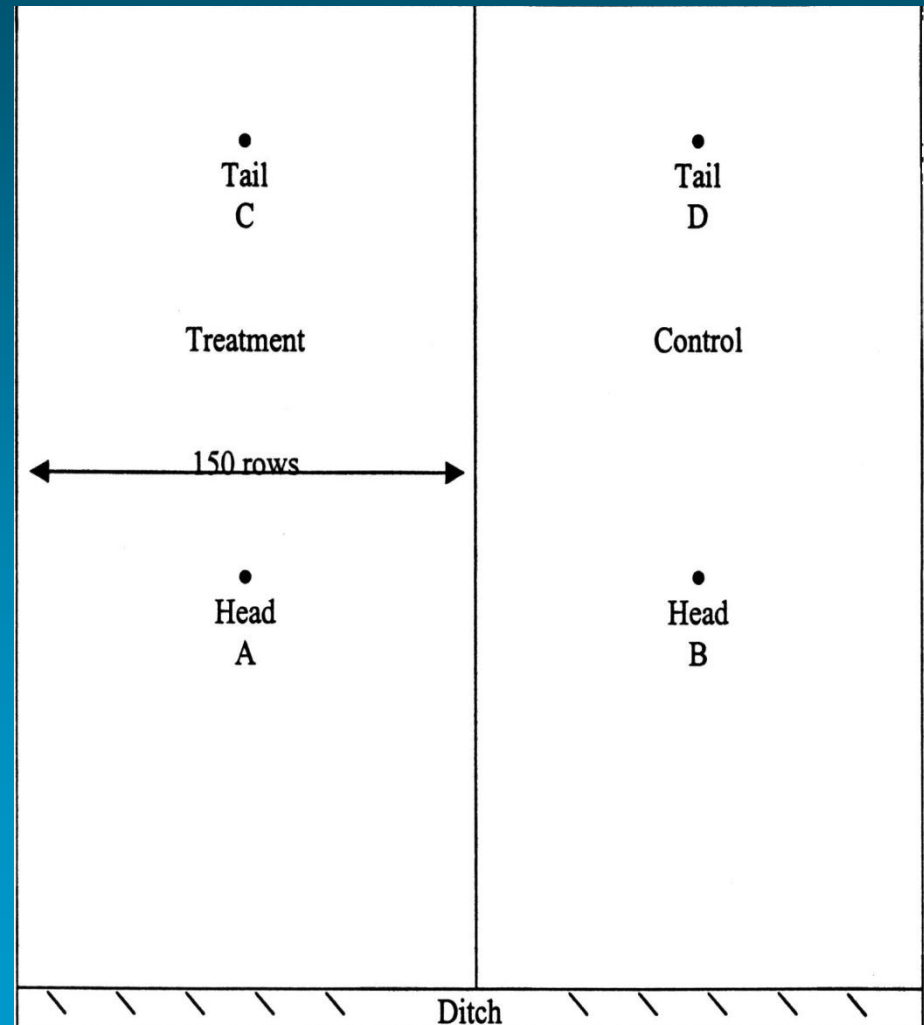
Cooperative Extension System

Description of Project

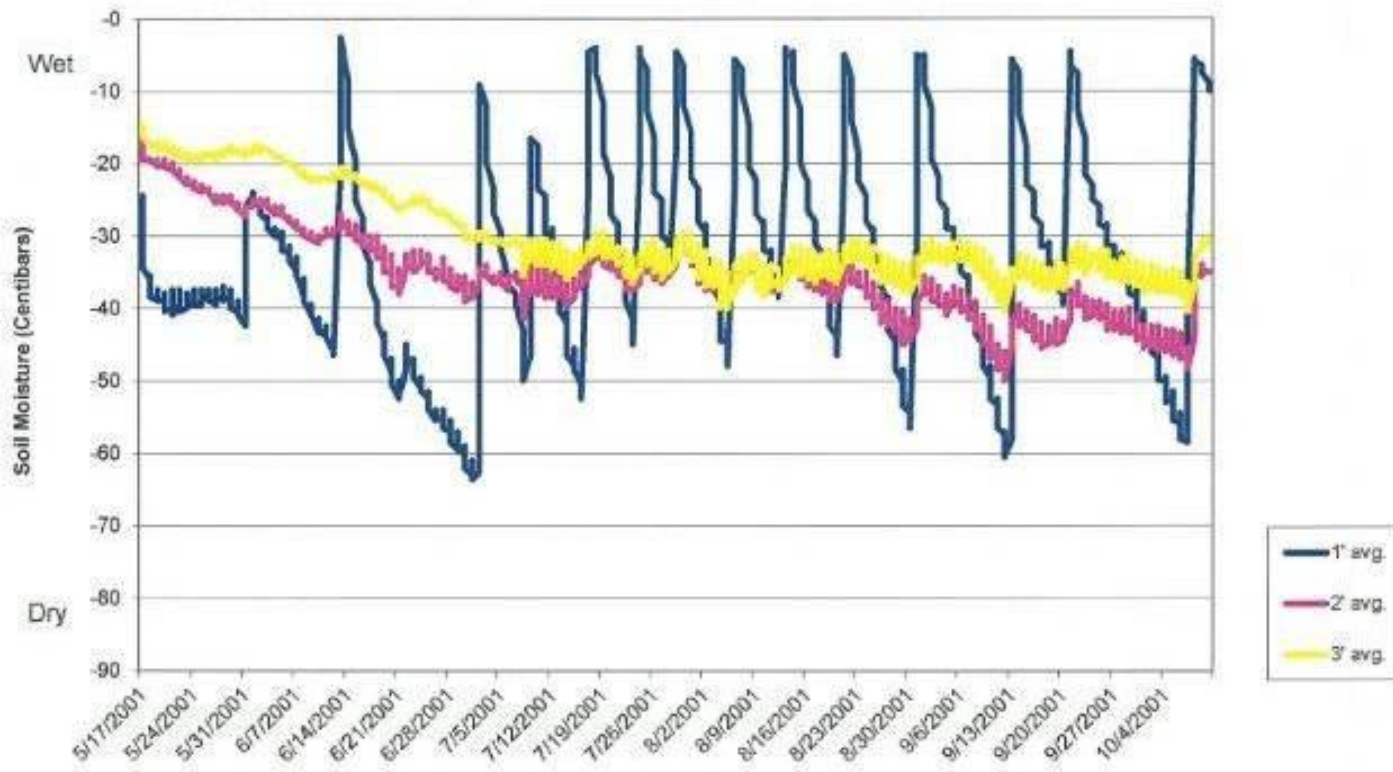
- Sugarbeet fields (Canyon and Washington Counties)
- Treatment and control plot in each field
- Control – irrigation and fertility managed according to growers normal practices
- Treatment – irrigation and fertility management based on soil moisture data, visual observation and soil sampling

Description of Project

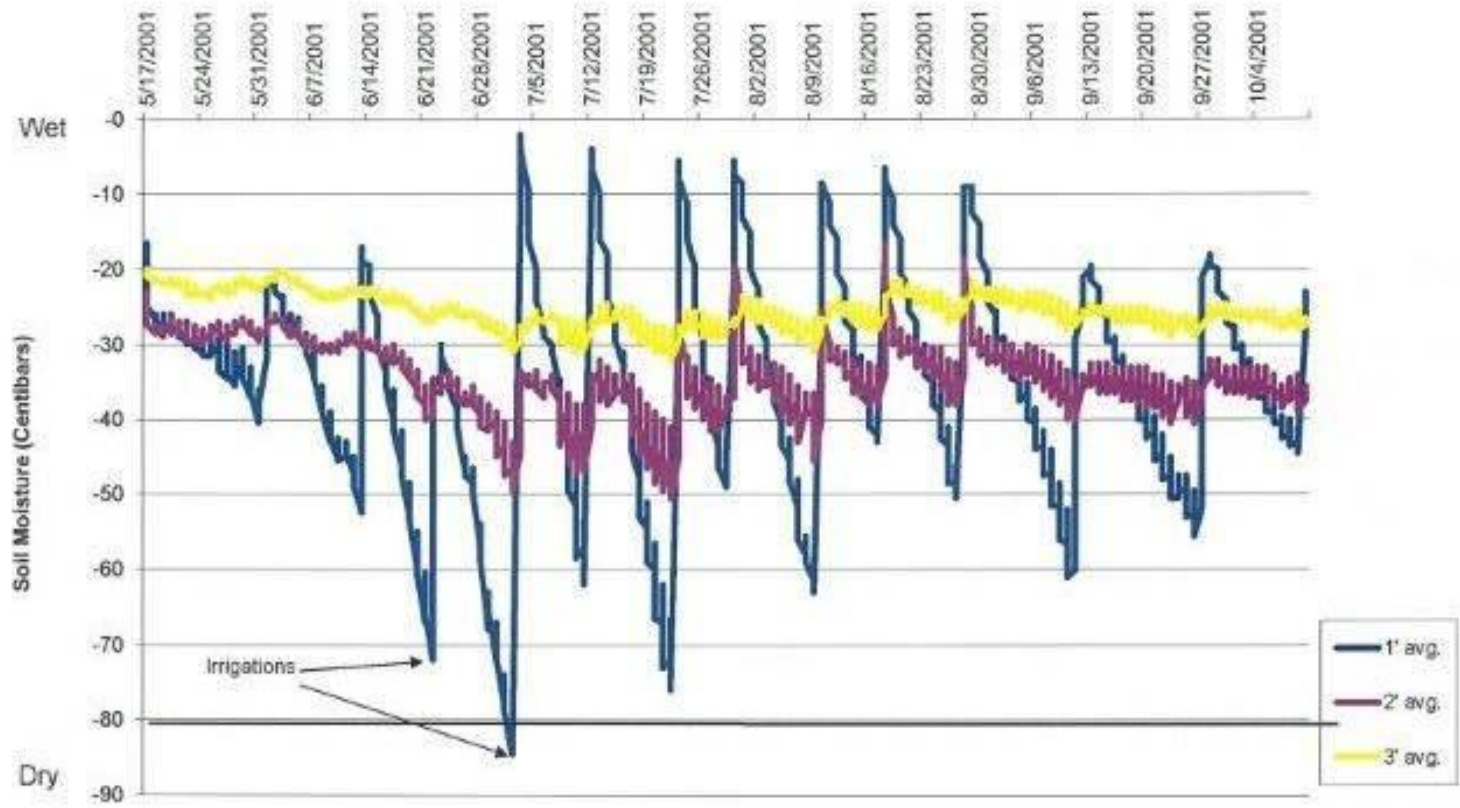
- Watermark soil moisture sensors and AM400 dataloggers (3X per day)
- Neutron probe (1X per week)
- Soil samples



Watermark Soil Moisture (Control) 2001



Watermark Soil Moisture (Treatment) 2001



Summary

2000

- T used 14.5% less water
- T yield 1.7 t/ac greater
- Sugars the same
- T used 50 lbs/ac less N

2001

- T used 19.4% less water
- T yield 1.7 t/ac greater
- Sugars the same
- T used 50 lbs/ac less N

2002

- T used 18.0% less water
- T yield 0.9 t/ac less
- Sugars the same
- T used 50 lbs/ac less N

END