Mobile Irrigation Labs

Irrigation System Assessments

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Cachuma Resource Conservation District (CRCD)
Ventura County Resource Conservation District (VCRCDD)
www.vcrcd.org
MIL Irrigation System Evaluation Service

• What Can You Expect From an Irrigation System Evaluation
  • Data and maps - flow and pressure measurements
  • An assessment of your system’s distribution uniformity (DU)
  • An assortment of recommendations tailored to help you improve DU
  • A personalized report with your data, recommendations, and relevant info
Irrigation System Evaluation - What’s DU

• Distribution Uniformity (DU)
  • Distribution Uniformity Low-Quarter (DULq)
    • Approach developed at Cal Poly’s ITRC
    • Measures flows (and pressures)
    • DU = Low flows ÷ Average flow
      • Is water evenly applied?
      • Is enough water applied in driest area?
      • How much more water is needed to irrigate driest area?

<table>
<thead>
<tr>
<th>Distribution Uniformity Ratings</th>
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<tbody>
<tr>
<td>DU%: 100-90% = Excellent</td>
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<tr>
<td>DU%: 89-80% = Good</td>
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<tr>
<td>DU%: 79-70% = Fair</td>
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<tr>
<td>DU%: 69-60% = Poor</td>
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<tr>
<td>DU%: ≤59% = Unacceptable</td>
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Irrigation System Evaluation - Why DU Matters

Uneven application means unequal uptake

Even application means equal uptake

Even application means equal uptake
Irrigation System Evaluation - DU Impact

Dripline Water Infiltration Diagram

0.13 - 0.21 gph, ave = 0.17 gph, DU = 0.80

Dripline pressures, 2-14 psi

 RESOURCE CONSERVATION DISTRICT
Santa Barbara and Ventura Counties
Irrigation System Evaluation - Uses for DU

CropManage...

...Waterright...and others....
MIL Irrigation System Evaluations - Finale

• Why should you schedule an irrigation evaluation?
  • Confirm your system specs are as expected
  • It is free, results are private, and there is no obligation
  • To save time & money, water & nutrients, protect crop & soil health
  • For information & recommendations on system improvements
  • To earn efficiency-based grants or certifications
For more Information please call or email

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and/or visit

www.vcrccd.org