

WHAT IS DISTRIBUTION UNIFORMITY?



Distribution Uniformity is a measurement of how uniformly water is being applied to an irrigated set across a vineyard, orchard or other crop. It is important to get a baseline measurement and frequent irrigation audits to make sure your irrigation system is performing within an acceptable measurement.

Why is Distribution Uniformity Important?

Once your irrigation system has been designed and engineered, the aim of the Distribution Uniformity measurement should be greater than 90 percent. Measuring the DU will determine if your system is being optimized and water and inputs are being evenly distributed.

A Low DU Measurement Can Lead To:

- Insufficient nutrient delivery to crops.
- Poor Crop Quality.
- Overworked pumps.
- Increased labor costs to replace emitters.
- Under/ over-irrigation of acres.
- Lower Yields.

Factors That Affect Distribution Uniformity

Uniform water delivery to crops is a critical element in preventing over watering, dry spots in soil, uneven wetting patterns, crop stress and lack of nutrient delivery. Many of the causes of a low DU score in micro irrigation systems is poor maintenance and plugging. Plugging can be in the form of mineral or biological foulants in the drip line, emitters and screens. Routine maintenance and field inspections are crucial to make sure you do not have a fouled or plugged irrigation system.

DU Score	Quick Reference Guide
>90%	Excellent
80-90%	Good
70-80%	Fair
<70%	Poor

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Distribution Uniformity

Meras Water Solutions manages Distribution Uniformity of irrigation systems by offering a comprehensive water treatment programs that are engineered to meet the unique water quality challenges of each grower.

We offer field inspections, water analysis and Distribution Uniformity measurement. We work with each grower to effectively develop a unique remediation plan. Our maintenance programs are built around sustainability and innovation, helping growers operate at a higher level of efficiency.

Meras Water Solutions is your partner in compliance with Sustainability in Practice (SIP) and Lodi Rules Standards.

Top 5 Ways To Improve Distribution Uniformity

- 1. FIELD INSPECTIONS**
Performing periodic field inspections, checking pressure valves and regulators, hose flushing's and inspecting emitters for plugging
- 2. WATER ANALYSIS**
Taking water samples at two locations; one at the source and one in the field to determine possible contaminants and check pH levels
- 3. DU MEASUREMENT**
Getting a base line measurement will help determine what steps are needed to improve DU
- 4. REMEDIATION**
Developing a remediation plan based on the findings of step 1-3.
- 5. MAINTENANCE PLAN**
By performing a water analysis and base line DU, our Ag water specialists can help you determine the appropriate plan for your irrigation system.



ABOUT US:

Meras Water Solutions has been helping customers in California, Arizona, Nevada, and Oregon for over 15 years. We specialize in turn-key, customized water treatment programs and services. Solving problems and delivering customer satisfaction is what drives our team. Contact us and see for yourself.

FREE INSPECTION

We offer a FREE, no obligation field inspection.



#growcleangrowsmart



MODESTO OFFICE
4213 Technology Drive, Suite A
Modesto, CA 95356
(209) 236-9612
www.meras.com