

# DISTRIBUTION UNIFORMITY



## Distribution Uniformity (DU)

Distribution Uniformity is a measurement of water uniformity as applied to an irrigated set across a vineyard, orchard, or other crops. Measuring the DU will determine if your irrigation system is being optimized and whether water and inputs are being evenly distributed. Its function as a baseline measurement is imperative to a successful year for your irrigation system and performing an annual irrigation audit allows users to appropriately assess the performance of their irrigation system.

DU Score	Evaluation
>90%	Excellent
80-89%	Good
71-79%	Fair
<70%	Poor

## 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.

## 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.

# What is distribution uniformity?

## Distribution Uniformity

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

We offer:

- Field inspections
- Water analysis
- Distribution Uniformity measurement
- Custom remediation plans
- No obligation field inspection



## Top 5 Ways To Improve Distribution Uniformity

Field Inspections	Performing periodic field inspections, checking pressure valves and regulators, hose flushing's and inspecting emitters for plugging.
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
DU Measurement	Getting a base line measurement will help determine what steps are needed to improve DU.
Remediation	Developing a remediation plan based on the findings of step 1-3.
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.

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

Free initial site Distribution Uniformity with a field inspection and a commitment of remediation.

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