

# Rain Bird® 1800® Series Sprays

## Even Coverage Test

### 1800® SERIES

#### SPRAYANALYSIS



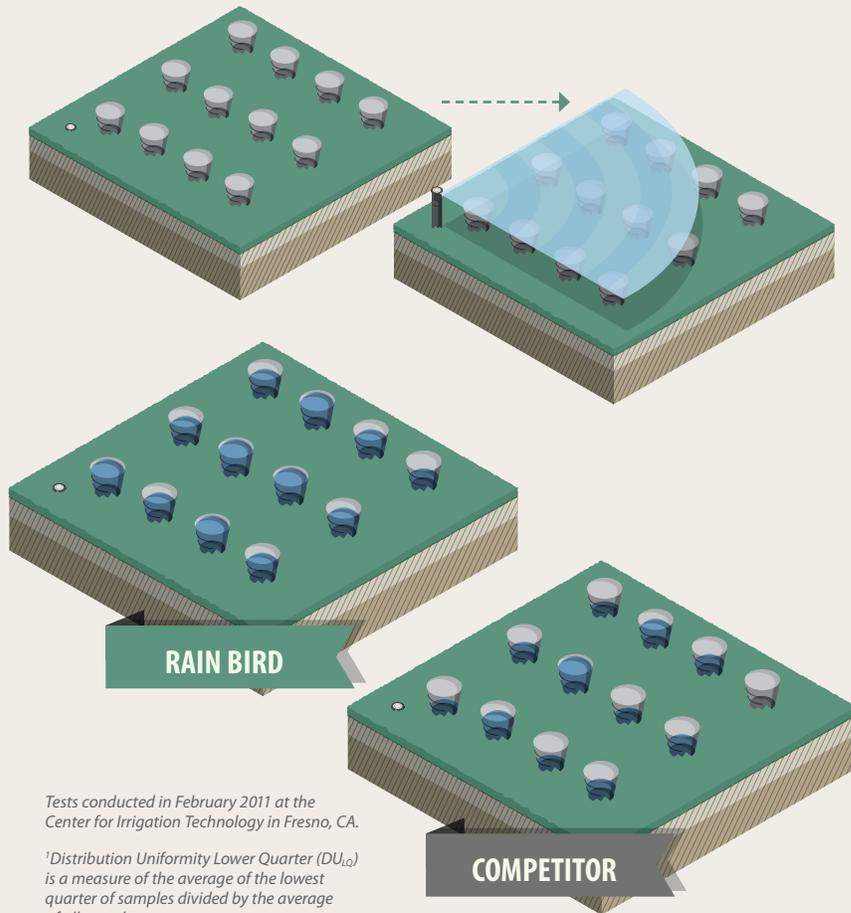
#### ANYONE CAN SAY THEIR PRODUCT PERFORMS. WE WANTED PROOF.

To show you how Rain Bird® 1800® Series Sprays stack up against the competition, we put them through a set of comparison tests. We call it "Sprayanalysis." It's your assurance that when you install Rain Bird sprays, you can count on them to deliver as promised, day in and day out.

#### YOU CAN JUDGE A NOZZLE BY ITS COVER(AGE)

Nowadays, you're faced with tight watering windows, tight water restrictions and even tighter budgets. Nozzle engineering and performance are key to overcoming these challenges. Intelligently designed nozzles increase distribution uniformity. That leads to shorter run times, less water and lower water bills.

#### THINK OF IT AS A GAME OF CATCH—WITH A DOZEN TINY CANS



#### HOW THE DISTRIBUTION UNIFORMITY TEST WORKS

Distribution Uniformity—or DU—is a measure of how evenly water is applied to a zone. To calculate DU, the Center for Irrigation Technology set up a grid of catch-cans. After running the sprays for 10 minutes, they recorded the water in each can. The more consistent the amounts of water across the grid, the higher the nozzle's DU—and the more efficient the nozzle.

#### THE RESULTS

In the independent test, Rain Bird nozzles outperformed the competition and, once again, raised the bar for nozzle performance. The U-Series and High-Efficiency Variable Arc Nozzle (HE-VAN) consistently achieved DUs (LQ<sup>1</sup>) of 78 percent and higher. For you, those results mean even watering and no dry spots.

#### GOOD COVERAGE EQUALS GOOD BUSINESS SENSE

With high DUs, Rain Bird nozzles maximize water efficiency. As a result, your customers will save water and money. And happy customers are good for your bottom line.

Tests conducted in February 2011 at the Center for Irrigation Technology in Fresno, CA.

<sup>1</sup>Distribution Uniformity Lower Quarter (DU<sub>LQ</sub>) is a measure of the average of the lowest quarter of samples divided by the average of all samples.

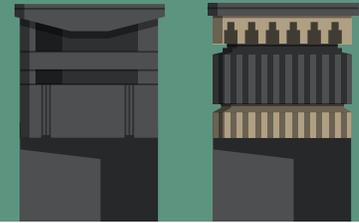


## CHOOSE THE BEST NOZZLE FOR THE JOB

Only Rain Bird offers uniform coverage in a fixed or variable arc solution. Our fixed-arc U-Series Nozzles deliver even coverage and efficient close-in watering. For uniform coverage plus 0-360 degree adjustability, we also offer variable-arc HE-VAN Nozzles. So no matter your challenge, you'll have a water-saving nozzle for the job.

U-Series

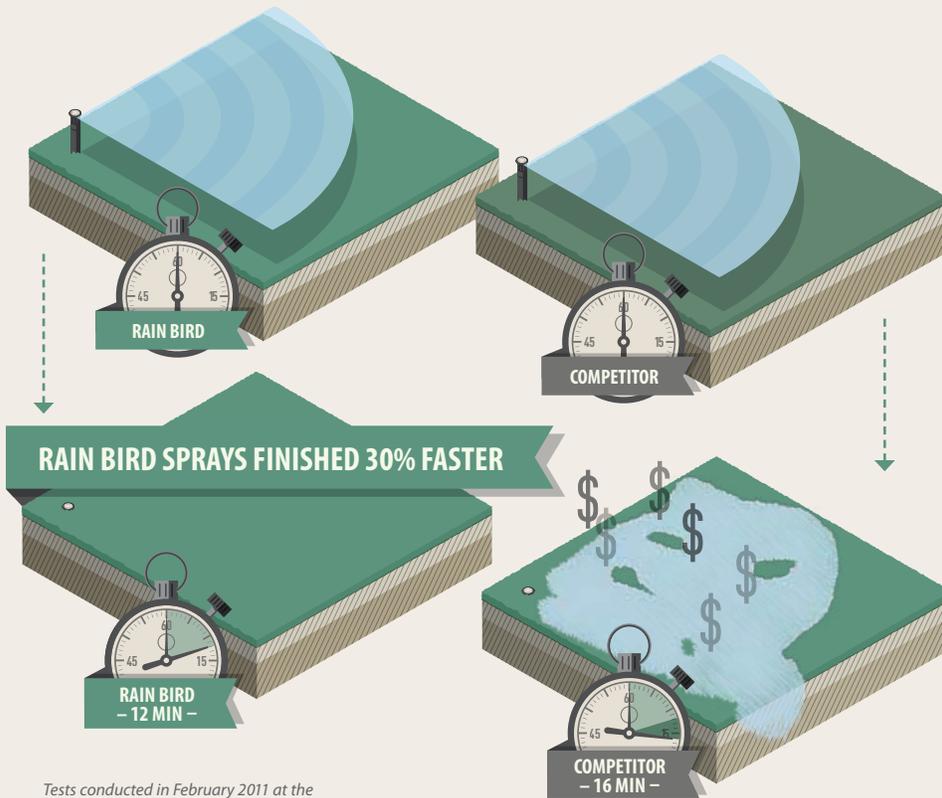
HE-VAN



## THE LOWER THE COEFFICIENT, THE MORE EFFICIENT THE NOZZLE

Another way to judge a nozzle is called Scheduling Coefficient—or SC. This is a measure of the actual run time needed to adequately water an entire zone. The lower the SC, the shorter the run time needed to ensure the driest spots receive enough water.

## WE WANTED TO SEE HOW LOW OUR SC COULD GO



Tests conducted in February 2011 at the Center for Irrigation Technology in Fresno, CA.

## HOW THE SCHEDULING COEFFICIENT TEST WORKS

To measure SC, the Center for Irrigation Technology recorded how long it took Rain Bird nozzles and competitive nozzles to adequately water an area. Competitive nozzles took up to 16 minutes to finish watering. Meanwhile, Rain Bird nozzles were done watering after just 12 minutes—that's a 30% savings in valuable time, water and money.

## THE RESULTS

Put into technical terms, the HE-VAN and U-Series both achieved SCs of 1.2—just 0.2 away from a perfect 1.0. That's a fancy way of saying that Rain Bird nozzles can get your watering done faster—and more efficiently.

## HELPING YOU STAY AHEAD OF SCHEDULE

What's the bottom line? By offering uniform coverage and shrinking watering windows, Rain Bird nozzles save your customers time, water and money. And that can help you expand your business.

These aren't the only tests where Rain Bird triumphs. See more tests at [www.rainbird.com/Sprayanalysis](http://www.rainbird.com/Sprayanalysis).

