

# Rain Bird® 1800® Series Sprays

## Real World Wind Test

### 1800® SERIES

#### SPRAYANALYSIS



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

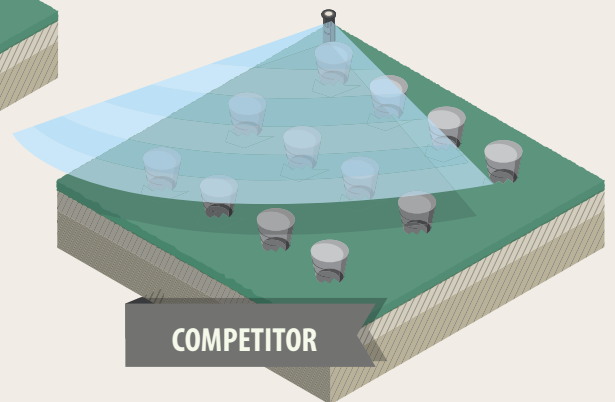
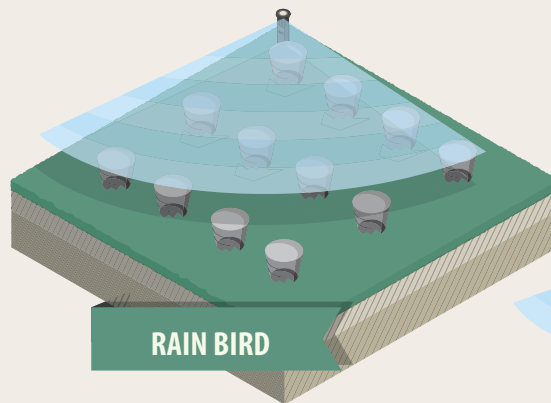
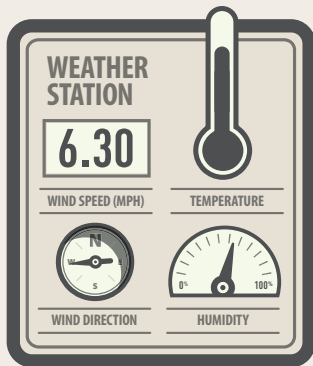
To show you how Rain Bird® 1800® Series Sprays stack up against the competition, we put them through a set of comparison tests. We call it "Sprayanalysis." It's your assurance that when you install Rain Bird sprays, you can count on them to deliver as promised, day in and day out.

#### HERE'S A WEATHER REPORT FOR YOU SPRAY HEAD USERS

Wind wastes water, and over time, you get brown spots. That's the bad news. Here's the good news: Rain Bird® High-Efficiency Variable Arc Spray Nozzles—or HE-VANs—offer thicker water droplets that cut through wind, saving water and promoting healthy, consistent turf.

#### WE DECIDED TO TAKE THE COMPETITION TO SCHOOL

If you couldn't tell, we think our nozzles are pretty swell. But we wanted to hear what the University of Arizona had to say. Most irrigation tests are performed indoors, which doesn't account for real-world conditions like wind. So the experts at the University of Arizona decided to take it outside—pitting Rain Bird nozzles against competitive nozzles on a real job site. Each nozzle was given four 12-foot by 12-foot plots with a grid of catch-cans and a water meter to measure how much water was applied. For 30 days, a weather station measured key data points for each half-inch irrigation cycle.

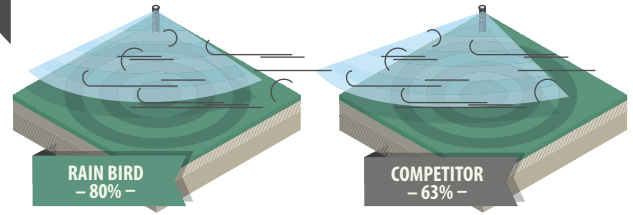


## THE RESULTS

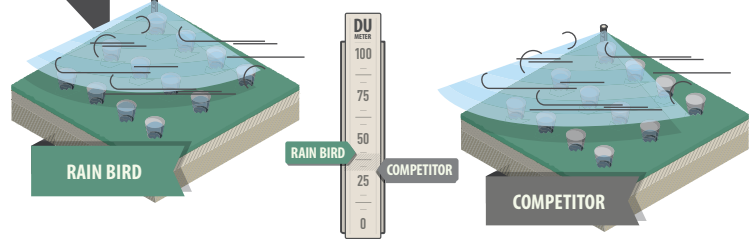
The first component of the test focused on Application Efficiency—or AE—a measure of how much water actually made it into the target zone. Rain Bird's HE-VAN blew the competition away—with an average AE of 80 percent, compared to the competitor's 63 percent.

The university also wanted to examine how wind speed affected each nozzle's Distribution Uniformity—or DU—which is a measure of how evenly water is applied to a zone. Mother Nature huffed and puffed, but she couldn't get the best of Rain Bird's high-efficiency nozzles. As wind speed increased, the competitor's Lower Quarter DU fell 13 percentage points more than the HE-VAN.

## APPLICATION EFFICIENCY

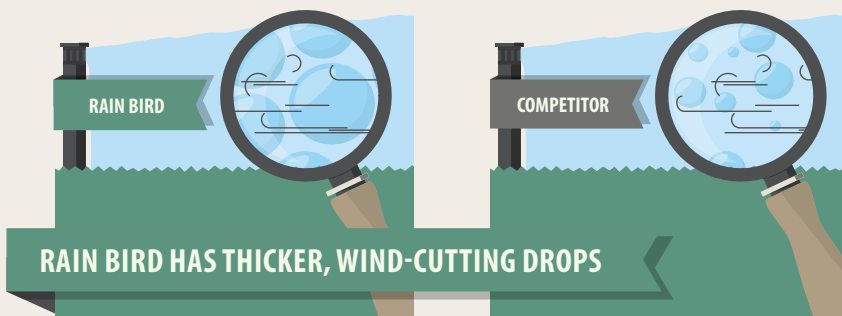


## DISTRIBUTION UNIFORMITY



## BIG DROPLETS GET THE DROP ON WIND

Why the lop-sided results? It all comes down to physics. Wind is pushy, but the larger droplets of the HE-VAN are able to push back, keeping the spray pattern on target. Accurate watering leads to shorter run times. Since the wind is able to push the leading competitor out of the target zone, you'll need to run the competitive zone longer over time to compensate. The water you'll waste doing this cancels out any potential water savings.



## WE FORECAST GROWTH IN YOUR FUTURE

Simply put, the Rain Bird's high-efficiency nozzles can dramatically reduce water use through real-world efficiency. And when your customers are looking at a lower water bill, the forecast for your business is looking up.



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

