

Rain Bird® 1800® Series Sprays Pressure Test

1800® SERIES

SPRAYANALYSIS

PRESSURE



-TEST-

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.

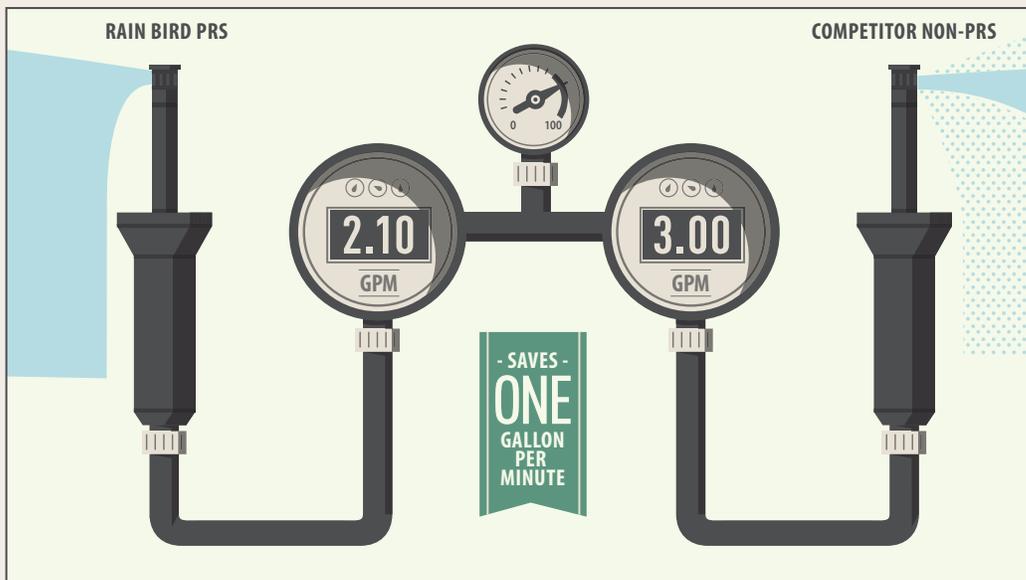
HOW THE FLOW TEST WORKS:

High water pressure wastes water—because as pressure increases, so does flow rate.

To test this effect, we ramped up the water pressure to 75 psi for Rain Bird PRS sprays and competitive non-PRS sprays. We watched the flow rate of each spray to see how increased pressure affected it.



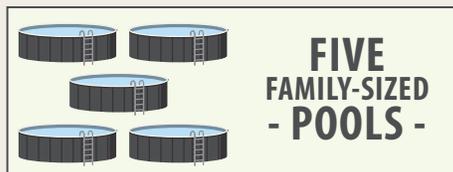
WE UPPED THE PRESSURE AND COMPARED FLOW RATES



Tests conducted in December 2011 at Rain Bird Product Research Center in Tucson, AZ.

THE RESULTS

As pressure increased, so did the flow rate of the non-PRS spray, which jumped to 3 gallons per minute. However, the flow rate of the Rain Bird PRS spray held steady at 2.1 gallons per minute, saving almost a gallon per minute over the non-PRS spray. The PRS spray pattern also remained uniform, while the non-PRS showed misting and fogging.



WITH RAIN BIRD PRS, YOU'LL BE SWIMMING IN SAVINGS

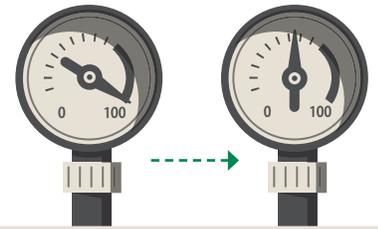
As the test proved, PRS conserves water. And these savings really add up over time. Based on a year of watering, PRS sprays can save 106,000 gallons or more.* That's enough to fill an average swimming pool five times over.

*In this conservative scenario, total system savings of 106,000 gallons based on landscape with 75 psi inlet pressure and watering that occurs 4 days a week, 40 weeks per year. System has 15 Rain Bird® 5000 PRS Rotors, each with a 3 gpm nozzle, and 20 Rain Bird® 1800® PRS Sprays, each with a 1.5H nozzle. Rotors run for 30 minutes a day, while sprays run for 15 minutes a day.

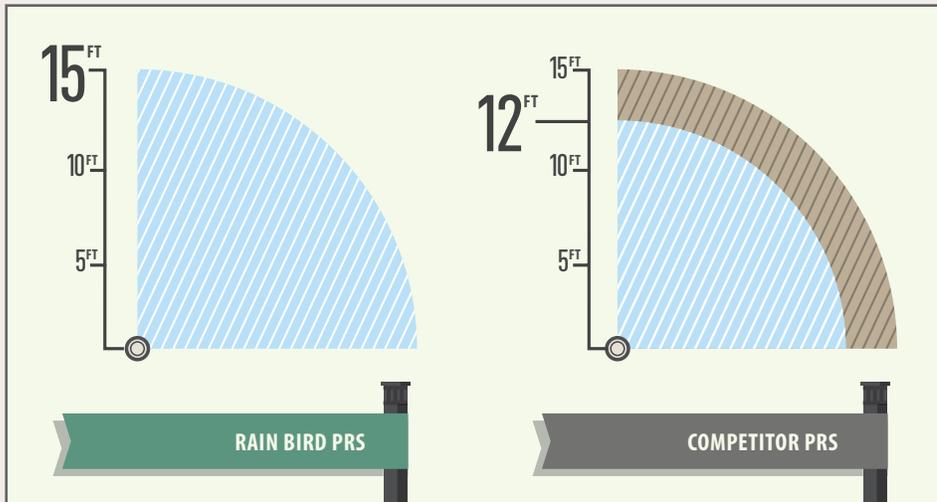


HOW THE PRESSURE DROP TEST WORKS:

Common on many commercial sites, pressure fluctuations can cause some PRS sprays to over or undershoot their intended target. As a result, you could be putting down too much water—or not enough. For the pressure drop test, we raised inlet pressure to 100 psi then dropped it to 50. We looked at the effect on outlet pressure and measured the distance of each spray's throw.



WHEN THE PRESSURE DROPPED, SO DID THE COMPETITION'S THROW

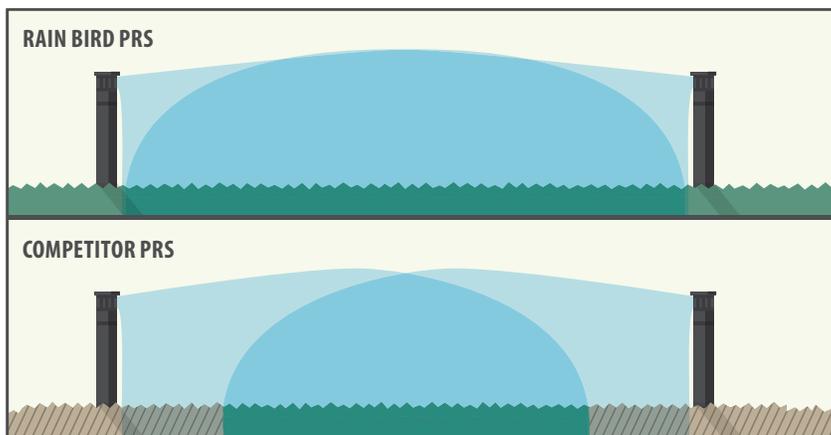


Tests conducted in December 2011 at Rain Bird Product Research Center in Tucson, AZ.

THE RESULTS

As inlet pressure decreased, so did the outlet pressure and radius of competitive PRS sprays. With a 10 psi drop in outlet pressure, the competition lost 3 feet of coverage. Meanwhile, Rain Bird PRS sprays maintained consistent outlet pressure and throw despite the pressure swing.

CONSISTENT HEAD-TO-HEAD COVERAGE



With accurate, head-to-head coverage at any inlet pressure, Rain Bird PRS sprays prevent brown spots and wasted water. For you, that means more satisfied customers than you can shake a Pressure Regulating Stem at.



1800 PRS

RD1800 PRS



WHAT MAKES OUR SPRAYS DIFFERENT?

Rain Bird PRS with Flow Optimizer™ technology is engineered to handle pressure spikes and fluctuations more effectively.



These aren't the only tests where Rain Bird triumphs. See more tests at www.rainbird.com/Sprayanalysis.

