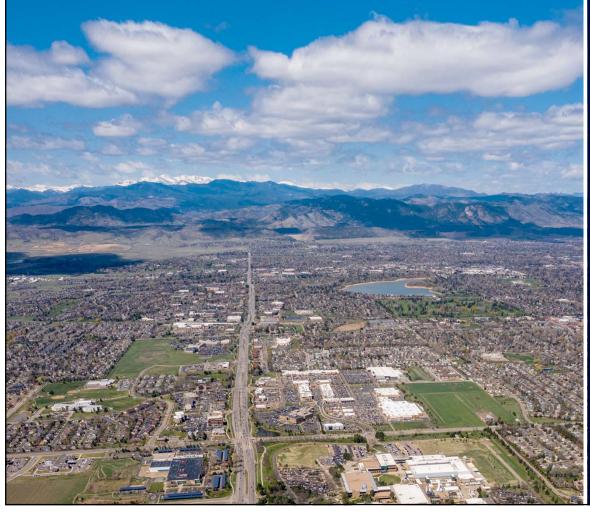
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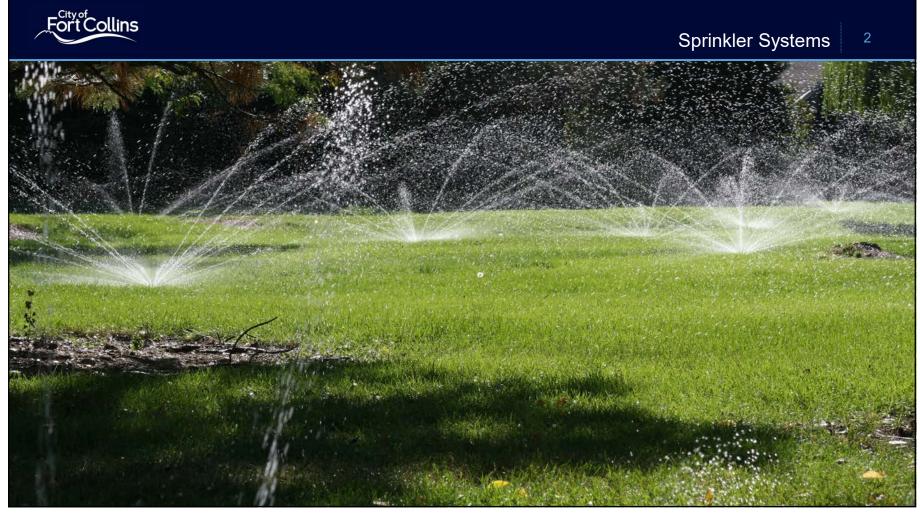
June 10, 2021

Rotate to Rotary Nozzles

Eric Olson

Irrigation Specialist Fort Collins Utilities





Fort Collins

Sprinkler heads require water pressure to perform optimally

- Too little pressure
 - Water misses target
- Too much pressure
 - Wastes water

High water pressure is common along the Front Range



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Spray heads House bill 19-1231

"Spray head bodies sold in the State of Colorado are required to have pressure reducing stems"

Spray heads perform best at 30 psi

Typically, these heads operate closer to 60 psi and above





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Results from High-water Pressure



Spray heads with water pressure above 30 psi show signs of misting and drifting water

The high-water pressure forces water thru the nozzle, the size of the droplet is changed and drifts away from hitting target

Water pressure also adds gallons to each nozzle over 30 psi.





Converting to Rotary Nozzles

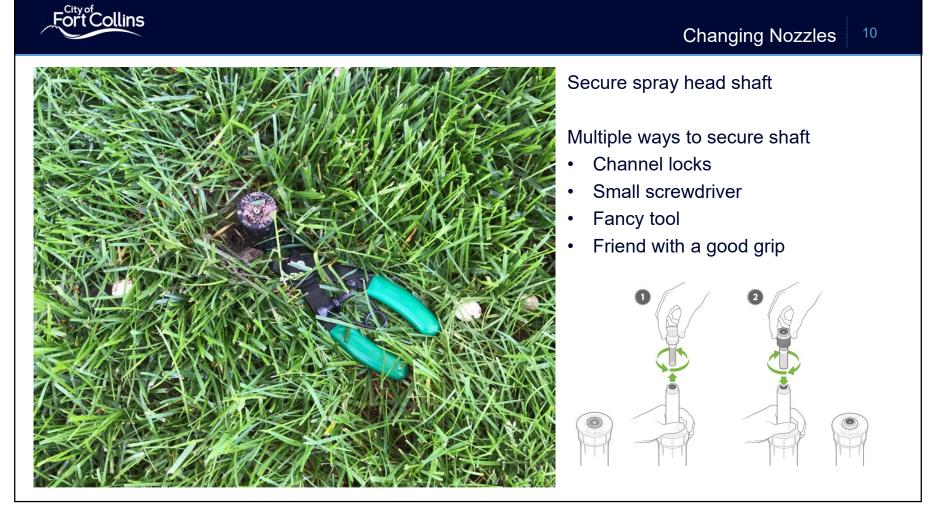
These are the steps to converting your spray nozzle zones into rotary

- Turn on zone from controller
- Flag all the heads in the zone
- Measure each heads radius
- Measure distance from adjacent

Fort Collins Flag Heads and Measure Flag all the heads 1. 2. Measure the distance to adjacent heads 1. 90 2. 180 3. 360

- 3. Measure the radius of the angle

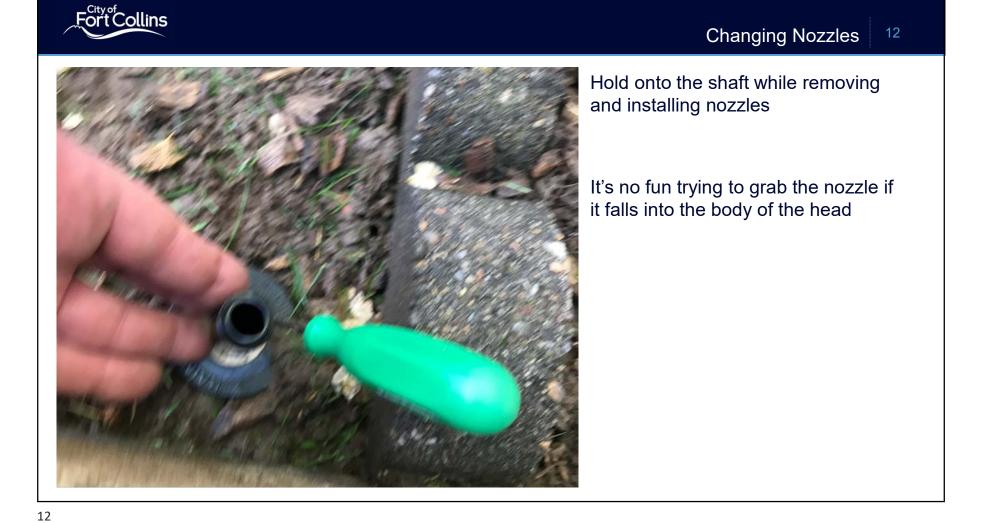
Fort Collins	Create a Map ⁹
	Pay attention to all angles of the radiusHouseStreetDeck / fence
	Record this information: nozzles throw radius $3 = 15' \times 180$ $2 = 15' \times 90$ $2 = 12' \times 180$ 7 total nozzles with zone



Changing Nozzles



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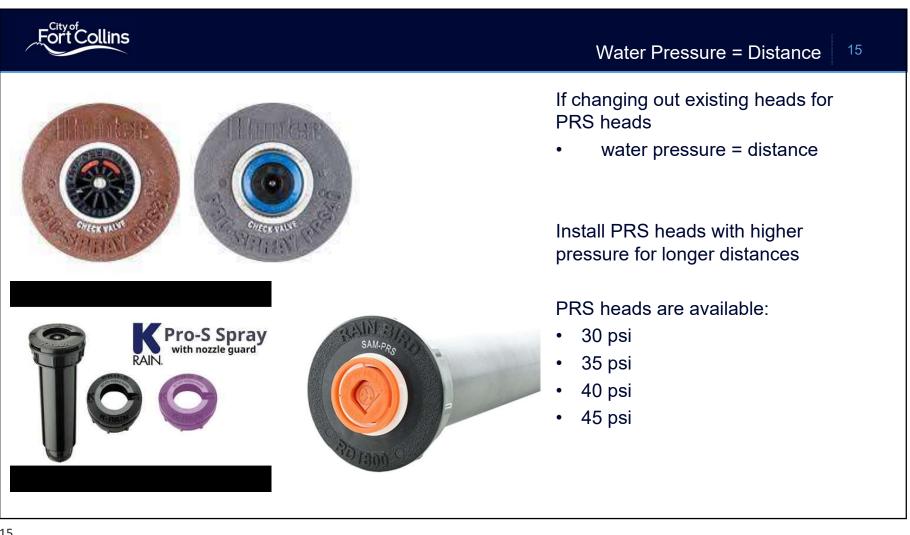


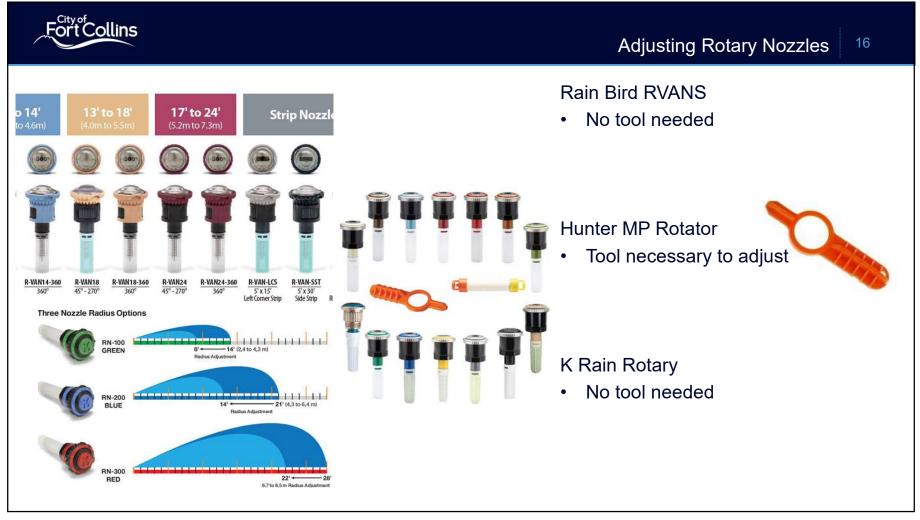
- Rotary nozzles have a mark to identify where the left side throw begins
- Align the mark with the left side
- Adjust the right side with water on

Install and Adjust









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Re-cap...



Rotary nozzles perform better and waste less water with our high-water pressure along the Front Range

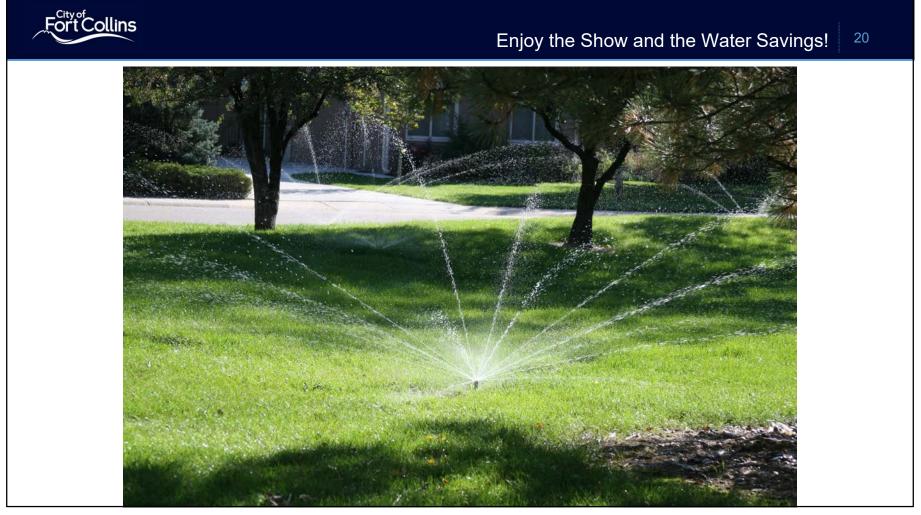
- Waste less water!
- Improve coverage!

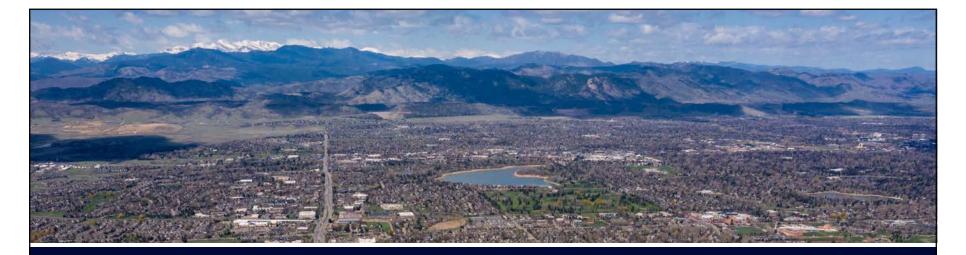
Rotary nozzles

- Rain Bird RVAN
- Hunter MP Rotator
- K Rain Rotary nozzle
- Toro Precision rotary nozzle
- July is smart irrigation month look for irrigation sales









THANK YOU!

For More Information, Visit

fcgov.com/XIP eolson@fcgov.com

