Suggested initial settings for the Rachio controller

	Grass		Desert Shrubs	Desert Trees	High water shrubs	High water trees
	Summer Bermuda	Winter Rye				
Zone Type	Warm Season Grass	Cool Season Grass	Shrubs	Trees	Shrubs	Trees
Spray Head	Rotor, fixed spray, or rotory nozzle	Rotor, fixed spray, or rotory nozzle	Emitter	Emitter	Emitter	Emitter
Soil Type	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most	Clay Loam for most
Exposure	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Slope	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Advanced Settings						
Available Water	Leave as is	Leave as is	Leave as is	Leave as is	Leave as is	Leave as is
Root Depth	6-10"	6-10"	12-18"	16-24"	12-18"	16-24"
Allowed Depletion	50%	50%	50%	50%	50%	50%
Efficiency	Leave as is	Leave as is	Leave as is	Leave as is	Leave as is	Leave as is
Crop Coefficient	Leave as is	Leave as is	30%	30%	50-70%	50-70%
Nozzle Inches/Hour	Input value from tuna can test under sprinkler entry	Input value from tuna can test under sprinkler entry	.3 if 1GPH emitters .4 if 2GPH emitters ★	.3 if 1GPH emitters .4 if 2GPH emitters ★	.3 if 1GPH emitters .4 if 2GPH emitters ★	.3 if 1GPH emitters .4 if 2GPH emitters ★

Please Note: These settings are a suggested starting point only and may need to be modified for your landscape, so you will need to pay attention to how your individual landscape responds

This is for established landscapes

Check watering depth with soil probe and adjust precipitation rate for drip zones accordingly

★ If emitters are more than 2GPH increase Nozzle Inches/Hour

The use of pressure compensating emitters is strongly recommended

Water Conservation GILBERT

Town of Gilbert Water Conservation 480-503-6098

	Groundcovers and vines (desert)	Groundcovers and vines (high)	Cacti and succulents	Annuals
Zone Type	Shrubs	Shrubs	Shrubs	Annuals
Spray Head	Emitter	Emitter	Emitter	Adjust as needed
Soil Type	Clay Loam for most	Clay Loam for most	Clay Loam for most	Adjust as needed
Exposure	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Slope	Adjust as needed	Adjust as needed	Adjust as needed	Adjust as needed
Advanced Settings				
Available Water	Leave as is	Leave as is	Leave as is	Leave as is
Root Depth	6-18"	6-18"	6-18"	4-6"
Allowed Depletion	50%	50%	50%	50%
Efficiency	Leave as is	Leave as is	Leave as is	Leave as is
Crop Coefficient	30%	50-70%	10-30%	Leave as is
Nozzle Inches/Hour	.3 if 1GPH emitters .4 if 2GPH emitters ⭐	.3 if 1GPH emitters .4 if 2GPH emitters ⭐	.3 if 1GPH emitters .4 if 2GPH emitters ⭐	Adjust as needed

Setting the Sprinkler precipitation rate:

Place tuna or cat food cans in the lawn. Use 2 cans per sprinkler head that waters the zone

Run the system for 15 minutes * Get the average depth of all the cans Multiply by 4.

Input that number for the sprinkler type

* Low precipitation rate sprinklers may need a longer run time with a different multiplier

What changing these settings do:
● Increasing the precipitation rate (Inches/Hour) will decrease the amount of time a zone runs on an irrigation day
● Decreasing the precipitation rate (Inches/Hour) will increase the amount of time a zone runs on an irrigation day
● Increasing the root depth will increase the amount of time a zone runs on an irrigation day **AND** lengthen the watering day interval (days between watering)
● Decreasing the root depth will decrease the amount of time a zone runs on an irrigation day **AND** shorten the watering day interval (Days between watering)
● Increasing the exposure factor (more sunny) will adjust the water needs higher
● Decreasing the exposure factor (more shady) will adjust the water needs lower
● Setting the soil type towards clay type soils will increase the amount of cycle and soak used **AND** lengthen the watering day interval
● Setting the soil type towards sandy type soils will decrease the amount of cycle and soak used **AND** shorten the watering day interval
● Increasing the slope will increase the amount of cycle and soak used
● Decreasing the slope will decrease the amount of cycle and soak used

Cycle and soak breaks the total run time needed into multiple short cycles with a soak time in between to Control runoff