

**CIMIS** South Coast Marine To Desert Transition  
**Zone 9** Inland area between marine and desert climates

		Spray Heads			Rotary Heads		
		Cool Season		Warm Season	Cool Season		Warm Season
		min.	s-t	days	min.	s-t	days
sun		12	1	4	9	1	4
shade		12	1	2	9	1	2
		28	1	4	21	1	4
		28	1	2	21	1	2

		Spray Heads			min. = minutes per start time s-t = start-times per day days = watering days per week
		min.	s-t	days	
sun		10	1	4	
shade		10	1	2	

		Spray Heads			Rotary Heads		
		min.	s-t	days	min.	s-t	days
sun		10	1	4	22	1	4
shade		10	1	2	22	1	2

		Spray Heads			Rotary Heads		
		min.	s-t	days	min.	s-t	days
sun		10	1	4	22	1	4
shade		10	1	2	22	1	2

		Spray Heads			Rotary Heads		
		min.	s-t	days	min.	s-t	days
sun		6	1	4	14	1	4
shade		6	1	2	14	1	2

\* Lawns are divided into cool season grasses like Bluegrass or Fescue and warm season grasses like Bermudagrass or St. Augustinegrass.

**Using the Charts to Determine Watering Times**

- I. Locate the primary type of plant material to be watered.
- II. Decide if the area to be watered is mostly in the Sun or mostly in the Shade.
- III. Look under the appropriate column, Spray Heads or Rotary Heads for setting the number of minutes, start times and days to set in your controller.
  - a. The minutes to be set will appear under "min".
  - b. The number of times you will water a zone in a watering day appears under "s-t" (start times).
  - c. The number of days in a week to be watered appears under the "days". Space the watering days, during the week, as evenly as possible.

If the minutes for each start time from the chart on the left exceed the maximum run-time minutes for your soil type and slope from the chart below, reduce the minutes and add additional start-times. For example: Rather than watering for 16 minutes one time per day, water for 8 minutes two times per day.

		Slope			
		0 - 5%	5 - 8%	8 - 12%	12% +
		Maximum Run-Time Minutes			
Soil Type	spray	8	7	6	5
	rotor	17	15	13	11
Clay	spray	13	12	11	10
	rotor	28	26	24	22
Clay - Loam	spray	19	18	17	16
	rotor	41	39	37	35
Loam	spray	21	20	19	18
	rotor	46	44	42	40
Sandy - Loam	spray	29	28	27	26
	rotor	63	61	59	57

Maximum Run-Time Minutes above are based on data from the IA-CLIA Training Manual.