

What Can You Do?

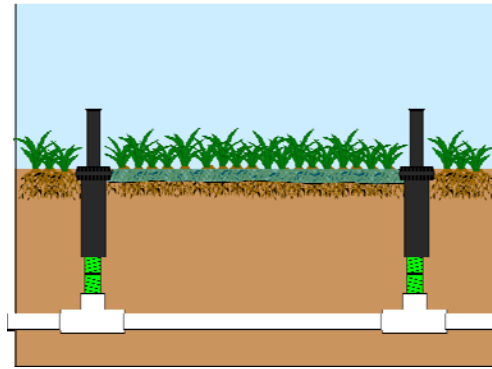
Castle Rock residents know how important it is to conserve water. Here are a few things you can do to help preserve this precious natural resource:

- ◆ Follow the every-third-day watering schedule. It not only conserves water, but also results in better health for trees and shrubs, which typically require less water.
- ◆ Use proper soil preparation and maintenance practices to build a healthy soil and promote vigorous, deep-rooted plants.
- ◆ Repair all sprinkler leaks. Check regularly for tilted, broken or missing sprinkler heads. Make sure sprinklers are adjusted properly to water your lawn, not the pavement.
- ◆ Reduce or eliminate overspray by adjusting all spray patterns away from hard surfaces
- ◆ Kentucky bluegrass, the dominant turf-type in Colorado, tolerates drought by going dormant. Bluegrass that is dormant turns brown, and in spite of its appearance, is not dead. Restrict traffic as much as possible on dormant turf, as it can easily be damaged when in this state.
- ◆ Reduce runoff by allowing for soak-time in between several shorter watering cycles - this is commonly referred to as "cycle and soak."
- ◆ Water when your lawn shows the need. A change in color and foot prints that remain for a long time indicate a thirsty lawn.
- ◆ Run your sprinklers during periods of low wind. Sprinkler performance and efficiency decrease rapidly as wind speed increases.
- ◆ Water late in the evening or early in the morning when temperatures are cooler, humidity is higher and winds are less.

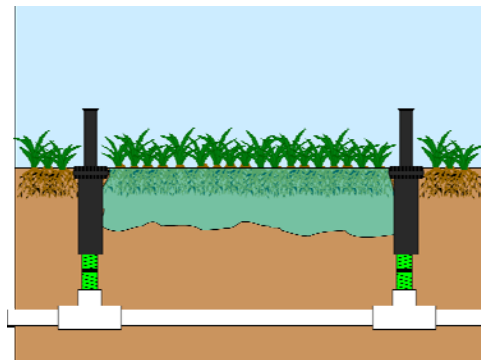
For additional information, please contact one of these organizations:

Irrigation Association irrigation.org
Associated Landscape Contractors of Colorado alcc.com
Green Industries of Colorado (GreenCO) GreenCO.org
EPA WaterSense EPA.gov/watersense

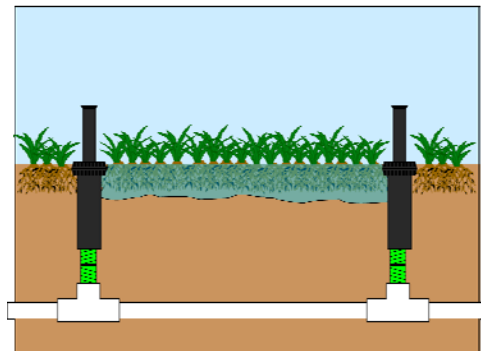
How Much is Enough?



Too little water does not fill the root zone.

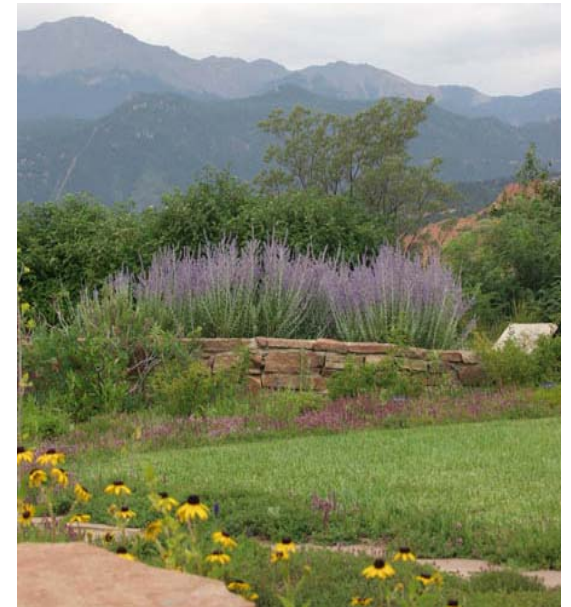


Too much water is wasted beyond the root zone.



Just right - the proper amount of water fills only the root zone.

Lawn Watering Guide



CASTLE ROCK
Water
Securing our future drop by drop

175 Kellogg Court
Castle Rock, CO 80109
Phone: 720-733-6000

Email: waterconservation@cr.gov
CRconserve.com

What's Your Application Rate?

- ◆ Set out six identical cans between sprinkler heads in the same sprinkler zone.
- ◆ Run the sprinklers for 10 minutes.
- ◆ Pour all of the water into one can.
- ◆ Measure and record the depth.
- ◆ Repeat for each sprinkler zone.

This is your sprinkler application rate in inches per hour (find this number on the left side of table).

ZONES

1 _____ 7 _____

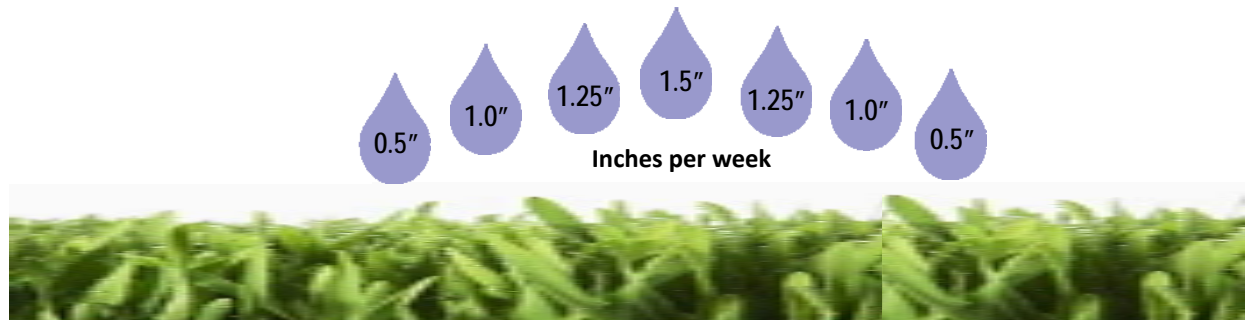
2 _____ 8 _____

3 _____ 9 _____

4 _____ 10 _____

5 _____ 11 _____

6 _____ 12 _____



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Sprinkler Runtime Table

(in minutes)

Inches of water needed

		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	
Sprinkler application rate (inches per hour)	3/16"	0.2	90	120	150	180	210	240	270	300	330	360	390	420	450
	5/16"	0.3	60	80	100	120	140	160	180	200	220	240	260	280	300
	3/8"	0.4	45	60	75	90	105	120	135	150	165	180	195	210	225
	1/2"	0.5	36	48	60	72	84	96	108	120	132	144	156	168	180
	5/8"	0.6	30	40	50	60	70	80	90	100	110	120	130	140	150
	11/16"	0.7	26	34	43	51	60	69	77	86	94	103	111	120	129
	13/16"	0.8	23	30	38	45	53	60	68	75	83	90	98	105	113
	7/8"	0.9	20	27	33	40	47	53	60	67	73	80	87	93	100
	1"	1.0	18	24	30	36	42	48	54	60	66	72	78	84	90
	1-1/8"	1.1	16	22	27	33	38	44	49	55	60	65	70	76	82
	1-3/16"	1.2	15	20	25	30	35	40	45	50	55	60	65	70	75
	1-5/16"	1.3	14	18	23	28	32	37	42	46	51	55	60	65	69
	1-3/8"	1.4	13	17	21	26	30	34	39	43	47	51	56	60	64
	1-1/2"	1.5	12	16	20	24	28	32	36	40	44	48	52	56	60
	1-5/8"	1.6	11	15	19	23	26	30	34	38	41	45	49	53	56
	1-11/16"	1.7	11	14	18	21	25	28	32	35	39	42	46	49	53
1-13/16"	1.8	10	13	17	20	23	27	30	33	37	40	44	47	50	
1-7/8"	1.9	9	13	16	19	22	25	28	32	35	38	41	44	47	
2"	2.0	9	12	15	18	21	24	27	30	33	36	39	42	45	
2-1/8"	2.1	9	11	14	17	20	23	26	29	31	34	37	40	43	
2-3/16"	2.2	8	11	14	16	19	22	25	27	30	33	35	38	41	
2-5/16"	2.3	8	10	13	16	18	21	23	26	29	31	34	37	39	
2-3/8"	2.4	8	10	13	15	18	20	23	25	28	30	33	35	38	
2-1/2"	2.5	7	10	12	14	17	19	22	24	26	29	31	34	36	

How long should I water?

The chart at the top of the page provides the average inches of water your lawn needs each week throughout the year. Current weather conditions will determine if you need more or less than these average amounts. To determine how long to operate sprinklers, look at this chart for each sprinkler zone. First, find the application rate along the left side of the chart. You can use the method on the left to determine your actual application rate or you can use an average for your sprinkler type. Typically sprinklers with fixed spray nozzles are 1.5 inches per hour. For rotor heads, or rotary nozzles, the average is one-half inch per hour. Then, move right, as on a mileage chart, and connect with the column containing the amount you want to apply. The example in yellow shows the average amount of water needed in April or October.