

Run Soak Tables for Weathermatic SmartLine Controllers

To determine minutes and seconds of run time, cross reference Slope with Precipitation Rate for each zone (Example: 9' 36" represents 9 minutes and 36 seconds of run time). Soak times are listed at the bottom of soil table.

SANDY SOIL													
Slope	Degrees	Slope Factor	Precipitation Rate										
			0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0	100%	N/A	N/A	N/A	30'	27'	24'	20'	17'	15'	12'	11'	10'
1	82%	N/A	N/A	24' 36"	22' 8"	19' 41"	16' 0"	13' 56"	12' 18"	9' 50"	9' 1"	8' 12"	
2	75%	N/A	N/A	22' 30"	20' 15"	18' 0"	15' 0"	12' 45"	11' 15"	9' 0"	8' 15"	7' 30"	
3	69%	N/A	N/A	20' 42"	18' 38"	16' 34"	13' 48"	11' 44"	10' 21"	8' 17"	7' 35"	6' 54"	
4	65%	N/A	N/A	19' 30"	17' 33"	15' 36"	13' 0"	11' 3"	9' 45"	7' 48"	7' 9"	6' 30"	
5	60%	N/A	N/A	18' 0"	16' 0"	14' 0"	12' 0"	10' 12"	9' 0"	7' 12"	6' 36"	6' 0"	
6	57%	N/A	N/A	17' 6"	15' 23"	13' 41"	11' 24"	9' 41"	8' 33"	6' 50"	6' 16"	5' 42"	
7	53%	N/A	N/A	15' 54"	14' 19"	12' 43"	10' 36"	9' 1"	7' 57"	6' 22"	5' 50"	5' 18"	
8	50%	N/A	N/A	15' 0"	13' 0"	12' 0"	10' 0"	8' 30"	7' 30"	6' 0"	5' 30"	5' 0"	
9	47%	N/A	N/A	14' 6"	12' 41"	11' 17"	9' 24"	7' 59"	7' 3"	5' 38"	5' 10"	4' 42"	
10	44%	N/A	N/A	13' 12"	11' 53"	10' 34"	8' 48"	7' 29"	6' 36"	5' 17"	4' 50"	4' 24"	
11	42%	N/A	N/A	12' 36"	11' 20"	10' 5"	8' 24"	7' 8"	6' 18"	5' 2"	4' 37"	4' 12"	
12	39%	N/A	N/A	11' 42"	10' 32"	9' 22"	7' 48"	6' 38"	5' 51"	4' 41"	4' 17"	3' 54"	
13	37%	N/A	N/A	11' 6"	9' 59"	8' 53"	7' 24"	6' 17"	5' 33"	4' 26"	4' 4"	3' 42"	
14	34%	N/A	N/A	10' 12"	9' 11"	8' 10"	6' 48"	5' 47"	5' 6"	4' 5"	3' 44"	3' 24"	
15	32%	N/A	N/A	9' 36"	8' 38"	7' 41"	6' 24"	5' 26"	4' 48"	3' 50"	3' 31"	3' 12"	
16	30%	N/A	N/A	9' 0"	8' 0"	7' 12"	6' 0"	5' 6"	4' 30"	3' 36"	3' 18"	3' 0"	
17	28%	N/A	N/A	8' 24"	7' 34"	6' 43"	5' 36"	4' 46"	4' 12"	3' 22"	3' 5"	2' 48"	
18	26%	N/A	N/A	7' 48"	7' 1"	6' 14"	5' 12"	4' 25"	3' 54"	3' 7"	2' 52"	2' 36"	
19	24%	N/A	N/A	7' 12"	6' 29"	5' 46"	4' 48"	4' 5"	3' 36"	2' 53"	2' 38"	2' 24"	
20	22%	N/A	N/A	6' 36"	5' 56"	5' 17"	4' 24"	3' 44"	3' 18"	2' 38"	2' 25"	2' 12"	
21	20%	N/A	N/A	6' 0"	5' 0"	4' 48"	4' 0"	3' 24"	3' 0"	2' 24"	2' 12"	2' 0"	
22	19%	N/A	N/A	5' 42"	5' 8"	4' 34"	3' 48"	3' 14"	2' 51"	2' 17"	2' 5"	1' 54"	
23	17%	N/A	N/A	5' 6"	4' 35"	4' 5"	3' 24"	2' 53"	2' 33"	2' 2"	1' 52"	1' 42"	
24	16%	N/A	N/A	4' 48"	4' 19"	3' 50"	3' 12"	2' 43"	2' 24"	1' 55"	1' 46"	1' 36"	
25	14%	N/A	N/A	4' 12"	3' 47"	3' 22"	2' 48"	2' 23"	2' 6"	1' 41"	1' 32"	1' 24"	
Soak Time			0'	0'	8'	14'	18'	20'	22'	23'	23'	24'	24'

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LOAM SOIL													
Slope	Degrees	Slope Factor	Precipitation Rate										
			0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0	100%	N/A	24'	20'	17'	15'	12'	12'	10'	8'	6'	5'	
1	82%	N/A	19' 40"	16' 24"	13' 56"	12' 18"	9' 50"	9' 50"	8' 12"	6' 34"	4' 55"	4' 6"	
2	75%	N/A	18' 0"	15' 0"	12' 45"	11' 15"	9' 0"	9' 0"	7' 30"	6' 0"	4' 30"	3' 45"	
3	69%	N/A	16' 33"	13' 48"	11' 44"	10' 21"	8' 17"	8' 17"	6' 54"	5' 31"	4' 8"	3' 27"	
4	65%	N/A	15' 36"	13' 0"	11' 3"	9' 45"	7' 48"	7' 48"	6' 30"	5' 12"	3' 54"	3' 15"	
5	60%	N/A	14' 24"	12' 0"	10' 0"	9' 0"	7' 12"	7' 12"	6' 0"	4' 48"	3' 36"	3' 0"	
6	57%	N/A	13' 40"	11' 24"	9' 41"	8' 33"	6' 50"	6' 50"	5' 42"	4' 34"	3' 25"	2' 51"	
7	53%	N/A	12' 43"	10' 36"	9' 1"	7' 57"	6' 22"	6' 22"	5' 18"	4' 14"	3' 11"	2' 39"	
8	50%	N/A	12' 0"	10' 0"	8' 0"	7' 30"	6' 0"	6' 0"	5' 0"	4' 0"	3' 0"	2' 30"	
9	47%	N/A	11' 16"	9' 24"	7' 59"	7' 3"	5' 38"	5' 38"	4' 42"	3' 46"	2' 49"	2' 21"	
10	44%	N/A	10' 33"	8' 48"	7' 29"	6' 36"	5' 17"	5' 17"	4' 24"	3' 31"	2' 38"	2' 12"	
11	42%	N/A	10' 4"	8' 24"	7' 8"	6' 18"	5' 2"	5' 2"	4' 12"	3' 22"	2' 31"	2' 6"	
12	39%	N/A	9' 21"	7' 48"	6' 38"	5' 51"	4' 41"	4' 41"	3' 54"	3' 7"	2' 20"	1' 57"	
13	37%	N/A	8' 52"	7' 24"	6' 17"	5' 33"	4' 26"	4' 26"	3' 42"	2' 58"	2' 13"	1' 51"	
14	34%	N/A	8' 9"	6' 48"	5' 47"	5' 6"	4' 5"	4' 5"	3' 24"	2' 43"	2' 2"	1' 42"	
15	32%	N/A	7' 40"	6' 24"	5' 26"	4' 48"	3' 50"	3' 50"	3' 12"	2' 34"	1' 55"	1' 36"	
16	30%	N/A	7' 12"	6' 0"	5' 0"	4' 30"	3' 36"	3' 36"	3' 0"	2' 24"	1' 48"	1' 30"	
17	28%	N/A	6' 43"	5' 36"	4' 46"	4' 12"	3' 22"	3' 22"	2' 48"	2' 14"	1' 41"	1' 24"	
18	26%	N/A	6' 14"	5' 12"	4' 25"	3' 54"	3' 7"	3' 7"	2' 36"	2' 5"	1' 34"	1' 18"	
19	24%	N/A	5' 45"	4' 48"	4' 5"	3' 36"	2' 53"	2' 53"	2' 24"	1' 55"	1' 26"	1' 12"	
20	22%	N/A	5' 16"	4' 24"	3' 44"	3' 18"	2' 38"	2' 38"	2' 12"	1' 46"	1' 19"	1' 6"	
21	20%	N/A	4' 48"	4' 0"	3' 0"	3' 0"	2' 24"	2' 24"	2' 0"	1' 36"	1' 12"	1' 0"	
22	19%	N/A	4' 33"	3' 48"	3' 14"	2' 51"	2' 17"	2' 17"	1' 54"	1' 31"	1' 8"	0' 57"	
23	17%	N/A	4' 4"	3' 24"	2' 53"	2' 33"	2' 2"	2' 2"	1' 42"	1' 22"	1' 1"	0' 51"	
24	16%	N/A	3' 50"	3' 12"	2' 43"	2' 24"	1' 55"	1' 55"	1' 36"	1' 17"	0' 58"	0' 48"	
25	14%	N/A	3' 21"	2' 48"	2' 23"	2' 6"	1' 41"	1' 41"	1' 24"	1' 7"	0' 50"	0' 42"	
Soak Time			0'	10'	13'	15'	17'	17'	20'	19'	17'	14'	13'

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CLAY SOIL													
Slope	Degrees	Slope Factor	Precipitation Rate										
			0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0	100%	15'	12'	10'	9'	8'	7'	6'	5'	4'	3'	3'	
1	82%	12' 18"	9' 50"	8' 12"	7' 23"	6' 34"	5' 44"	4' 55"	4' 6"	3' 17"	2' 28"	2' 28"	
2	75%	11' 15"	9' 0"	7' 30"	6' 45"	6' 0"	5' 15"	4' 30"	3' 45"	3' 0"	2' 15"	2' 15"	
3	69%	10' 21"	8' 16"	6' 54"	6' 13"	5' 31"	4' 50"	4' 8"	3' 27"	2' 46"	2' 4"	2' 4"	
4	65%	9' 45"	7' 48"	6' 30"	5' 51"	5' 12"	4' 33"	3' 54"	3' 15"	2' 36"	1' 57"	1' 57"	
5	60%	9'	7' 12"	6' 0"	5' 0"	4' 48"	4' 12"	3' 36"	3' 0"	2' 24"	1' 48"	1' 48"	
6	57%	8' 33"	6' 50"	5' 42"	5' 8"	4' 34"	3' 59"	3' 25"	2' 51"	2' 17"	1' 43"	1' 43"	
7	53%	7' 57"	6' 21"	5' 18"	4' 46"	4' 14"	3' 43"	3' 11"	2' 39"	2' 7"	1' 35"	1' 35"	
8	50%	7' 30"	6' 0"	5' 0"	4' 0"	4' 0"	3' 30"	3' 0"	2' 30"	2' 0"	1' 30"	1' 30"	
9	47%	7' 3"	5' 38"	4' 42"	4' 14"	3' 46"	3' 17"	2' 49"	2' 21"	1' 53"	1' 25"	1' 25"	
10	44%	6' 36"	5' 16"	4' 24"	3' 58"	3' 31"	3' 5"	2' 38"	2' 12"	1' 46"	1' 19"	1' 19"	
11	42%	6' 18"	5' 2"	4' 12"	3' 47"	3' 22"	2' 56"	2' 31"	2' 6"	1' 41"	1' 16"	1' 16"	
12	39%	5' 51"	4' 40"	3' 54"	3' 31"	3' 7"	2' 44"	2' 20"	1' 57"	1' 34"	1' 10"	1' 10"	
13	37%	5' 33"	4' 26"	3' 42"	3' 20"	2' 58"	2' 35"	2' 13"	1' 51"	1' 29"	1' 7"	1' 7"	
14	34%	5' 6"	4' 4"	3' 24"	3' 4"	2' 43"	2' 23"	2' 2"	1' 42"	1' 22"	1' 1"	1' 1"	
15	32%	4' 48"	3' 50"	3' 12"	2' 53"	2' 34"	2' 14"	1' 55"	1' 36"	1' 17"	0' 58"	0' 58"	
16	30%	4' 30"	3' 36"	3' 0"	2' 0"	2' 24"	2' 6"	1' 48"	1' 30"	1' 12"	0' 54"	0' 54"	
17	28%	4' 12"	3' 21"	2' 48"	2' 31"	2' 14"	1' 58"	1' 41"	1' 24"	1' 7"	0' 50"	0' 50"	
18	26%	3' 54"	3' 7"	2' 36"	2' 20"	2' 5"	1' 49"	1' 34"	1' 18"	1' 2"	0' 47"	0' 47"	
19	24%	3' 36"	2' 52"	2' 24"	2' 10"	1' 55"	1' 41"	1' 26"	1' 12"	0' 58"	0' 43"	0' 43"	
20	22%	3' 18"	2' 38"	2' 12"	1' 59"	1' 46"	1' 32"	1' 19"	1' 6"	0' 53"	0' 40"	0' 40"	
21	20%	3'	2' 24"	2' 0"	1' 0"	1' 36"	1' 24"	1' 12"	1' 0"	0' 48"	0' 36"	0' 36"	
22	19%	2' 51"	2' 16"	1' 54"	1' 43"	1' 31"	1' 20"	1' 8"	0' 57"	0' 46"	0' 34"	0' 34"	
23	17%	2' 33"	2' 2"	1' 42"	1' 32"	1' 22"	1' 11"	1' 1"	0' 51"	0' 41"	0' 31"	0' 31"	
24	16%	2' 24"	1' 55"	1' 36"	1' 26"	1' 17"	1' 7"	0' 58"	0' 48"	0' 38"	0' 29"	0' 29"	
25	14%	2' 6"	1' 40"	1' 24"	1' 16"	1' 7"	0' 59"	0' 50"	0' 42"	0' 34"	0' 25"	0' 25"	
Soak Time			6'	8'	9'	10'	11'	12'	12'	11'	10'	10'	10'