

Date	Time	Temperature (^F)	Gallons	Mix Ratio	Notes		total Gallons			
6/30/2025	9:30 AM	71	0.468	100%			2241.011			
7/1/2025	9:30 AM	71	0.468	100%						
7/2/2025	9:30 AM	71	0.468	100%						
7/3/2025	9:30 AM	71	0.468	100%						
7/4/2025	9:30 AM	71	0.468	100%						
7/5/2025	9:30 AM	71	0.468	100%						
7/6/2025	9:30 AM	71	0.468	100%						
7/7/2025	9:30 AM	71	0.468	100%						
7/8/2025	9:30 AM	71	0.468	100%						
7/9/2025	9:30 AM	71	0.468	100%						
7/10/2025	9:30 AM	71	0.468	100%						
7/11/2025	9:30 AM	71	0.468	100%						
7/12/2025	9:30 AM	71	0.468	100%						
7/13/2025	9:30 AM	71	0.468	100%						
7/14/2025	9:30 AM	71	0.468	100%						
7/15/2025	9:30 AM	71	0.702	100%						
7/16/2025	9:30 AM	71	0.702	100%						
7/17/2025	9:30 AM	71	0.702	100%						
7/18/2025	9:30 AM	71	0.702	100%						
7/19/2025	9:30 AM	71	0.702	100%						
7/20/2025	9:30 AM	71	0.702	100%						
7/21/2025	9:30 AM	71	0.702	100%						
7/22/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/23/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/24/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/25/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/26/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/27/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/28/2025	9:30 AM	71	0.702	100%	4 hours outside					
7/29/2025	9:30 AM	71	0.936	100%	6 hours outside					
7/30/2025	9:30 AM	71	0.936	100%	6 hours outside					
7/31/2025	9:30 AM	71	0.936	100%	6 hours outside					
8/1/2025	9:30 AM	71	0.936	100%	6 hours outside					
8/2/2025	9:30 AM	71	0.936	100%	6 hours outside					
8/3/2025	9:30 AM	71	0.936	100%	6 hours outside					
8/4/2025	9:30 AM	71	0.936	100%	8 hours outside					
8/5/2025	9:30 AM	71	1.173	100%	8 hours outside					
8/6/2025	9:30 AM	71	1.173	100%	8 hours outside					
8/7/2025	9:30 AM	71	1.173	100%	8 hours outside					
8/8/2025	9:30 AM	71	1.173	100%	8 hours outside					
8/9/2025	9:30 AM	71	1.173	100%	8 hours outside					
8/10/2025	9:30 AM	71	1.173	100%	8 hours outside					

8/11/2025	9:30 AM	71	1.173	100%	10 hours outside					
8/12/2025	5:00 PM	74	45	100%	Transplanted in evening. Saturated soil to combat heat stress and water displacement through entire plot.					
8/13/2025	9:30 AM	87	45	100%						
8/14/2025	9:30 AM	86	45	100%						
8/15/2025	10:00 AM	86	45	100%						
8/16/2025	10:00 AM	92	45	100%						
8/17/2025	10:00 AM	93	35	100%	excess water					
8/18/2025	10:00 AM	83	31	100%	Calculation of exact water needs of the plants throughout plot					
8/19/2025	10:00 AM	85	31	100%						
8/20/2025	10:00 AM	81	31	100%						
8/21/2025	6:00 AM	73	15.5	100%	15.5g/8mins					
8/21/2025	6:00 PM	69	15.5	100%						
8/22/2025	6:30 AM	55	15.5	100%						
8/22/2025	6:30 PM	71	15.5	100%						
8/23/2025	6:30 AM	55	15.5	100%						
8/23/2025	6:30 PM	72	15.5	100%						
8/24/2025	6:30 AM	58	15.5	100%						
8/24/2025	6:30 PM	74	15.5	100%						
8/25/2025	6:30 AM	56	15.5	100%						
8/25/2025	6:30 PM	74	15.5	100%						
8/26/2025	6:30 AM	66	15.5	100%						
8/26/2025	6:30 PM	71	15.5	100%						
8/27/2025	6:30 AM	53	15.5	100%						
8/27/2025	6:30 PM	74	15.5	100%						
8/28/2025	6:30 AM	53	15.5	100%						
8/28/2025	6:30 PM	76	15.5	100%						
8/29/2025	6:30 AM	63	15.5	100%						
8/29/2025	6:30 PM	75	15.5	100%						
8/30/2025	6:30 AM	55	15.5	100%						
8/30/2025	6:30 PM	73	15.5	100%						
8/31/2025	6:30 AM	53	15.5	100%						
8/31/2025	6:30 PM	80	15.5	100%						
9/1/2025	6:30 AM	55	15.6	100%						
9/1/2025	6:30 PM	83	16.1	100%						
9/2/2025	6:30 AM	56	15.1	100%						
9/2/2025	6:30 PM	82	14.9	100%						
9/3/2025	6:30 AM	56	15.6	100%						
9/3/2025	6:30 PM	87	15.8	100%						
9/4/2025	6:30 AM	63	15.2	100%						
9/4/2025	6:30 PM	69	15.6	100%						
9/5/2025	6:30 AM	60	15.9	100%						
9/5/2025	6:30 PM	81	15.3	100%						
9/6/2025	6:30 AM	60	15.2	100%						

9/6/2025	6:30 PM	64	16.1	100%						
9/7/2025	6:30 AM	57	15.7	100%						
9/7/2025	6:30 PM	73	16	100%						
9/8/2025	6:30 AM	48	15.6	100%						
9/8/2025	6:30 PM	74	15.7	100%						
9/9/2025	6:30 AM	50	15.5	100%						
9/9/2025	6:30 PM	74	15.4	100%						
9/10/2025	6:30 AM	54	16.1	100%						
9/10/2025	6:30 PM	78	15.4	100%						
9/11/2025	6:30 AM	55	15.6	100%						
9/11/2025	6:30 PM	78	14.9	100%						
9/12/2025	6:30 AM	55	15.7	100%						
9/12/2025	6:30 PM	83	15	100%						
9/13/2025	6:30 AM	58	15.5	100%						
9/13/2025	6:30 PM	84	16.1	100%						
9/14/2025	6:30 AM	61	15.6	100%						
9/14/2025	6:30 PM	85	15.9	100%						
9/15/2025	6:30 AM	62	16.2	100%						
9/15/2025	6:30 PM	82	16.7	100%						
9/16/2025	6:30 AM	65	12	100%	Water needs changing based on weather, and saturation. Changing output to more closely represent the rainwater daily output.					
9/16/2025	6:30 PM	79	11.9	100%						
9/17/2025	6:30 AM	59	12.3	100%						
9/17/2025	6:30 PM	78	12.1	100%						
9/18/2025	6:30 AM	55	11.8	100%						
9/18/2025	6:30 PM	82	11.7	100%						
9/19/2025	6:30 AM	53	12.1	100%						
9/19/2025	6:30 PM	77	11.7	100%						
9/20/2025	6:30 AM	60	11.2	100%						
9/20/2025	6:30 PM	68	10.9	100%						
9/21/2025	6:30 AM	62	11.4	100%						
9/21/2025	6:30 PM	77	11.4	100%						
9/22/2025	6:30 AM	62	11.7	100%						
9/22/2025	6:30 PM	80	11.9	100%						
9/23/2025	6:30 AM	64	12.3	100%						
9/23/2025	6:30 PM	73	12.1	100%						
9/24/2025	6:30 AM	64	11.7	100%						
9/24/2025	6:30 PM	71	11.4	100%						
9/25/2025	6:30 AM	66	10.7	100%	Aphid Infestation (High)					
9/25/2025	6:30 PM	73	11	100%	powdery Mildew					
9/26/2025	6:30 AM	64	10.8	100%	powdery Mildew					
9/26/2025	6:30 PM	77	11.2	100%	powdery Mildew					
9/27/2025	6:30 AM	60	11.7	100%	powdery Mildew					
9/27/2025	6:30 PM	68	10.9	100%	powdery Mildew					

9/28/2025	6:30 AM	59	10.1	100%	Neem Oil every 2 weeks starting now					
9/28/2025	6:30 PM	77	11.2	100%	Powdery Mildew					
9/29/2025	6:30 AM	57	10.8	100%	Powdery Mildew					
9/29/2025	6:30 PM	71	11	100%	Powdery Mildew					
9/30/2025	6:30 AM	60	10.7	100%	Powdery Mildew					
9/30/2025	6:30 PM	73	9.9	100%	Powdery Mildew					
10/1/2025	6:30 AM	53	10.1	100%	Powdery Mildew					
10/1/2025	6:30 PM	69	11.3	100%	Powdery Mildew					
10/2/1015	6:30 AM	48	11.7	100%	Powdery Mildew					
10/2/2025	6:30 PM	69	10.1	100%	Powdery Mildew					
10/3/2025	6:30 AM	50	12.2	100%	Powdery Mildew					
10/3/2025	6:30 PM	71	11.6	100%	Powdery Mildew					
10/4/2025	6:30 AM	51	11.4	100%	Powdery Mildew					
10/4/2025	6:30 PM	71	11.9	100%	Powdery Mildew					
10/5/2025	6:30 AM	53	10.9	100%	Powdery Mildew					
10/5/2025	6:30 PM	73	12.2	100%	Powdery Mildew					
10/6/2025	6:30 AM	53	13	100%	Powdery Mildew					
10/6/2025	6:30 PM	71	11.9	100%	Powdery Mildew					
10/7/2025	6:30 AM	62	10.9	100%	Powdery Mildew					
10/7/2025	6:30 PM	66	11.2	100%	Powdery Mildew					
10/8/2025	6:30 AM	55	11.3	100%	Powdery Mildew					
10/8/2025	6:30 PM	57	10.6	100%	Powdery Mildew					
10/9/2025	6:30 AM	44	11.1	100%	Powdery Mildew					
10/9/2025	6:30 PM	50	11	100%	Powdery Mildew					
10/10/2025	6:30 AM	42	11.2	100%	Powdery Mildew					
10/10/2025	6:30 PM	59	12.2	100%	Powdery Mildew					
10/11/2025	6:30 AM	46	11.1	100%	Powdery Mildew					
10/11/2025	6:30 PM	64	10.8	100%	Neem Oil					
10/12/2025	6:30 AM	53	10.7	100%						
10/12/2025	6:30 PM	62	11	100%						
10/13/2025	6:30 AM	51	13.1	100%	Water needs changing based on weather, and saturation.					
10/13/2025	6:30 PM	68	12.8	100%						
10/14/2025	6:30 AM	57	6.9	100%						
10/14/2025	6:30 PM	71	6.4	100%						
10/15/2025	6:30 AM	51	6	100%						
10/15/2025	6:30 PM	80	6.9	100%						
10/16/2025	6:30 AM	41	5.8	100%						
10/16/2025	6:30 PM	82	5.6	100%						
10/17/2025	6:30 AM	35	6.1	100%						
10/17/2025	6:30 PM	78	6	100%						
10/18/2025	6:30 AM	57	6.6	100%						
10/18/2025	6:30 PM	91	5.8	100%						
10/19/2025	6:30 AM	55	6.2	100%						

10/19/2025	6:30 PM	68	5.8	100%						
10/20/2025	6:30 AM	46	5.3	100%						
10/20/2025	6:30 PM	75	5.5	100%						
10/21/2025	6:30 AM	35	7.1	100%						
10/21/2025	6:30 PM	57	6.1	100%						
10/22/2025	6:30 AM	44	5.1	100%						
10/22/2025	6:30 PM	48	5.5	100%						
10/23/2025	6:30 AM	42	5.8	100%						
10/23/2025	6:30 PM	46	5.6	100%						
10/24/2025	6:30 AM	35	5.9	100%						
10/24/2025	6:30 PM	42	5.2	100%						
10/25/2025	6:30 AM	33	4.9	100%						
10/25/2025	6:30 PM	48	5.1	100%	Neem Oil					
10/26/2025	6:30 AM	35	6	100%	Possible Stunted Growth on tomatoes					
10/26/2025	6:30 PM	48	5.7	100%						
10/27/2025	6:30 AM	39	4.9	100%						
10/27/2025	6:30 PM	48	5.5	100%						
10/28/2025	6:30 AM	37	5.8	100%						
10/28/2025	6:30 PM	46	5.1	100%						
10/29/2025	6:30 AM	39	0	100%						
10/29/2025	6:30 PM	46	0	100%	hose kink					
10/30/2025	6:30 AM	48	5.5	100%						
10/30/2025	6:30 PM	48	5.3	100%						
10/31/2025	6:30 AM	42	4.8	100%						
10/31/2025	6:30 PM	48	4.6	100%						
11/1/2025	6:30 AM	37	5.1	100%						
11/1/2025	6:30 PM	48	4.5	100%						
11/2/2025	6:30 AM	39	5.1	100%						
11/2/2025	6:30 PM	48	4.4	100%						
11/3/2025	6:30 AM	35	4.9	100%						
11/3/2025	6:30 PM	48	4	100%						
11/4/2025	6:30 AM	35	4.6	100%						
11/4/2025	6:30 PM	48	5.1	100%						
11/5/2025	6:30 AM	37	4.8	100%						
11/5/2025	6:30 PM	60	4.7	100%						
11/6/2025	6:30 AM	33	4.9	100%						
11/6/2025	6:30 PM	44	5.3	100%						
11/7/2025	6:30 AM	33	5.4	100%						
11/7/2025	6:30 PM	55	5.8	100%						
11/8/2025	6:30 AM	46	4.8	100%						
11/8/2025	6:30 PM	53	4.6	100%	Neem Oil					
11/9/2025	6:30 AM	44	5.1	100%						
11/9/2025	6:30 PM	48	5.2	100%						

11/10/2025	6:30 AM	37	5.6	100%						
11/10/2025	6:30 PM	33	5.6	100%						
11/11/2025	6:30 AM	24	4.9	100%						
11/11/2025	6:30 PM	30	5.4	100%						
11/12/2025	6:30 AM	37	5.7	100%						
11/12/2025	6:30 PM	44	6	100%						
11/13/2025	6:30 AM	28	5.8	100%						
11/13/2025	6:30 PM	42	5.8	100%						
11/14/2025	6:30 AM	30	5.2	100%						
11/14/2025	6:30 PM	48	5.6	100%						
11/15/2025	6:30 AM	48	5.7	100%						
11/15/2025	6:30 PM	59	5.1	100%						
11/16/2025	6:30 AM	46	4.8	100%						
11/16/2025	6:30 PM	41	5.1	100%						
11/17/2025	6:30 AM	28	2.2	100%						
11/17/2025	6:30 PM	37	0	100%						
11/18/2025	6:30 AM	28	0	100%						
11/18/2025	6:30 PM	42	0	100%						
11/19/2025	6:30 AM	39	3	100%						
11/19/2025	6:30 PM	39	4.8	100%						
11/20/2025	6:30 AM	41	4.3	100%						
11/20/2025	6:30 PM	44	5.1	100%						
11/21/2025	6:30 AM	41	4.8	100%						
11/21/2025	6:30 PM	50	6.1	100%						
11/22/2025	6:30 AM	46	4.7	100%						
11/22/2025	6:30 PM	42	5.2	100%	Neem Oil					
11/23/2025	6:30 AM	39	4.4	100%						
11/23/2025	6:30 PM	44	3.9	100%						
11/24/2025	6:30 AM	32	0	100%						
11/24/2025	6:30 PM	44	0	100%						
11/25/2025	6:30 AM	46	0	100%						
11/25/2025	6:30 PM	50	0	100%						
11/26/2025	6:30 AM	51	0	100%						
11/26/2025	6:30 PM	42	0	100%						