

Date	Time	Temperature (°F)	Gallons	Mix Ratio	Notes	Total Gallons			
6/30/2025	9:30 AM	71	0.468	100% Tap		2232.211			
7/1/2025	9:30 AM	71	0.468	100% Well					
7/2/2025	9:30 AM	71	0.468	100% Rain					
7/3/2025	9:30 AM	71	0.468	100% Tap					
7/4/2025	9:30 AM	71	0.468	100% Well					
7/5/2025	9:30 AM	71	0.468	100% Rain					
7/6/2025	9:30 AM	71	0.468	100% Tap					
7/7/2025	9:30 AM	71	0.468	100% Well					
7/8/2025	9:30 AM	71	0.468	100% Rain					
7/9/2025	9:30 AM	71	0.468	100% Tap					
7/10/2025	9:30 AM	71	0.468	100% Well					
7/11/2025	9:30 AM	71	0.468	100% Rain					
7/12/2025	9:30 AM	71	0.468	100% Tap					
7/13/2025	9:30 AM	71	0.468	100% Well					
7/14/2025	9:30 AM	71	0.468	100% Rain					
7/15/2025	9:30 AM	71	0.702	100% Tap					
7/16/2025	9:30 AM	71	0.702	100% Well					
7/17/2025	9:30 AM	71	0.702	100% Rain					
7/18/2025	9:30 AM	71	0.702	100% Tap					
7/19/2025	9:30 AM	71	0.702	100% Well					
7/20/2025	9:30 AM	71	0.702	100% Rain					
7/21/2025	9:30 AM	71	0.702	100% Tap					
7/22/2025	9:30 AM	71	0.702	100% Well	4 hours outside				
7/23/2025	9:30 AM	71	0.702	100% Rain	4 hours outside				
7/24/2025	9:30 AM	71	0.702	100% Tap	4 hours outside				
7/25/2025	9:30 AM	71	0.702	100% Well	4 hours outside				
7/26/2025	9:30 AM	71	0.702	100% Rain	4 hours outside				
7/27/2025	9:30 AM	71	0.702	100% Tap	4 hours outside				
7/28/2025	9:30 AM	71	0.702	100% Well	4 hours outside				
7/29/2025	9:30 AM	71	0.936	100% Rain	6 hours outside				
7/30/2025	9:30 AM	71	0.936	100% Tap	6 hours outside				
7/31/2025	9:30 AM	71	0.936	100% Well	6 hours outside				
8/1/2025	9:30 AM	71	0.936	100% Rain	6 hours outside				
8/2/2025	9:30 AM	71	0.936	100% Tap	6 hours outside				
8/3/2025	9:30 AM	71	0.936	100% Well	6 hours outside				
8/4/2025	9:30 AM	71	0.936	100% Rain	8 hours outside				
8/5/2025	9:30 AM	71	1.173	100% Tap	8 hours outside				
8/6/2025	9:30 AM	71	1.173	100% Well	8 hours outside				
8/7/2025	9:30 AM	71	1.173	100% Rain	8 hours outside				
8/8/2025	9:30 AM	71	1.173	100% Tap	8 hours outside				
8/9/2025	9:30 AM	71	1.173	100% Well	8 hours outside				
8/10/2025	9:30 AM	71	1.173	100% Rain	8 hours outside				

8/11/2025	9:30 AM	71	1.173	100% Tap	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/26mins					
8/21/2025	6:00 PM	69	15.5	100%						
8/22/2025	6:30 AM	55	15.5	100%						
8/22/2015	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	15.5	100%						
9/1/2025	6:30 PM	83	15.4	100%						
9/2/2025	6:30 AM	56	15.4	100%						
9/2/2025	6:30 PM	82	14.6	100%						
9/3/2025	6:30 AM	56	15.2	100%						
9/3/2025	6:30 PM	87	15.1	100%						
9/4/2025	6:30 AM	63	14.8	100%						
9/4/2025	6:30 PM	69	15.1	100%						
9/5/2025	6:30 AM	60	15.3	100%						
9/5/2025	6:30 PM	81	14.9	100%						
9/6/2025	6:30 AM	60	15.4	100%						

9/6/2025	6:30 PM	64	15.3	100%								
9/7/2025	6:30 AM	57	15.1	100%								
9/7/2025	6:30 PM	73	15.3	100%								
9/8/2025	6:30 AM	48	14.8	100%								
9/8/2025	6:30 PM	74	15.2	100%								
9/9/2025	6:30 AM	50	15.3	100%								
9/9/2025	6:30 PM	74	15.1	100%								
9/10/2025	6:30 AM	54	14.9	100%								
9/10/2025	6:30 PM	78	15.2	100%								
9/11/2025	6:30 AM	55	14.9	100%								
9/11/2025	6:30 PM	78	14.7	100%								
9/12/2025	6:30 AM	55	15.4	100%								
9/12/2025	6:30 PM	83	14.9	100%								
9/13/2025	6:30 AM	58	15.3	100%								
9/13/2025	6:30 PM	84	15.4	100%								
9/14/2025	6:30 AM	61	15.6	100%								
9/14/2025	6:30 PM	85	15.3	100%								
9/15/2025	6:30 AM	62	14.9	100%								
9/15/2025	6:30 PM	82	15.1	100%								
9/16/2025	6:30 AM	65	10.2	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	12.7	100%	City/Tap water until this point							
9/17/2025	6:30 AM	59	13.2	100% Well								
9/17/2025	6:30 PM	78	13	100% Well								
9/18/2025	6:30 AM	55	12.9	100% Well								
9/18/2025	6:30 PM	82	12.8	100% Well								
9/19/2025	6:30 AM	53	12.4	100% Well								
9/19/2025	6:30 PM	77	12.6	100% Well								
9/20/2025	6:30 AM	60	11.8	100% Well								
9/20/2025	6:30 PM	68	12.1	100% Well								
9/21/2025	6:30 AM	62	12.8	100% Well								
9/21/2025	6:30 PM	77	12	100% Well								
9/22/2025	6:30 AM	62	11.7	100% Well								
9/22/2025	6:30 PM	80	11.8	100% Well								
9/23/2025	6:30 AM	64	11.9	100% Well								
9/23/2025	6:30 PM	73	12.6	100% Well								
9/24/2025	6:30 AM	64	12.1	100% Well								
9/24/2025	6:30 PM	71	11.8	100% Well								
9/25/2025	6:30 AM	66	10.7	100% Well	Aphid Infestation (High)							
9/25/2025	6:30 PM	73	10.6	100% Well	Powdery Mildew							
9/26/2025	6:30 AM	64	11.2	100% Well	Powdery Mildew							
9/26/2025	6:30 PM	77	12.4	100% Well	Powdery Mildew							
9/27/2025	6:30 AM	60	12.1	100% Well	Powdery Mildew							
9/27/2025	6:30 PM	68	12.8	100% Well	Powdery Mildew							

9/28/2025	6:30 AM	59	10.9	100% Well	Neem Oil every 2 weeks starting now					
9/28/2025	6:30 PM	77	11.7	100% Well	Powdery Mildew					
9/29/2025	6:30 AM	57	11.8	100% Well	Powdery Mildew					
9/29/2025	6:30 PM	71	11.3	100% Well	Powdery Mildew					
9/30/2025	6:30 AM	60	11.5	100% Well	Powdery Mildew					
9/30/2025	6:30 PM	73	11.1	100% Well	Powdery Mildew					
10/1/2025	6:30 AM	53	11.8	100% Rain	Powdery Mildew					
10/1/2025	6:30 PM	69	11.7	100% Rain	Powdery Mildew					
10/2/2025	6:30 AM	48	11.7	100% Rain	Powdery Mildew					
10/2/2025	6:30 PM	69	12.4	100% Rain	Powdery Mildew					
10/3/2025	6:30 AM	50	11.9	100% Rain	Powdery Mildew					
10/3/2025	6:30 PM	71	12.8	100% Rain	Powdery Mildew					
10/4/2025	6:30 AM	51	11.9	100% Rain	Powdery Mildew					
10/4/2025	6:30 PM	71	12.7	100% Rain	Powdery Mildew					
10/5/2025	6:30 AM	53	12	100% Rain	Powdery Mildew					
10/5/2025	6:30 PM	73	12.3	100% Rain	Powdery Mildew					
10/6/2025	6:30 AM	53	11.8	100% Rain	Powdery Mildew					
10/6/2025	6:30 PM	71	12.6	100% Rain	Powdery Mildew					
10/7/2025	6:30 AM	62	12.1	100% Rain	Powdery Mildew					
10/7/2025	6:30 PM	66	13.1	100% Rain	Powdery Mildew					
10/8/2025	6:30 AM	55	11.6	100% Rain	Powdery Mildew					
10/8/2025	6:30 PM	57	12.3	100% Rain	Powdery Mildew					
10/9/2025	6:30 AM	44	12.8	100% Rain	Powdery Mildew					
10/9/2025	6:30 PM	50	11.7	100% Rain	Powdery Mildew					
10/10/2025	6:30 AM	42	11.8	100% Rain	Powdery Mildew					
10/10/2025	6:30 PM	59	12.5	100% Rain	Powdery Mildew					
10/11/2025	6:30 AM	46	12.8	100% Rain	Powdery Mildew					
10/11/2025	6:30 PM	64	12.3	100% Rain	Neem Oil					
10/12/2025	6:30 AM	53	12.4	100% Rain						
10/12/2025	6:30 PM	62	11	100% Rain						
10/13/2025	6:30 AM	51	11.7	100% Rain						
10/13/2025	6:30 PM	68	11.9	100% Rain						
10/14/2025	6:30 AM	57	5.5	100% Rain	Water needs changing based on weather, and saturation.					
10/14/2025	6:30 PM	71	4.9	100% Rain						
10/15/2025	6:30 AM	51	5.4	100% Tap						
10/15/2025	6:30 PM	80	5.4	100% Tap						
10/16/2025	6:30 AM	41	4.8	100% Tap						
10/16/2025	6:30 PM	82	4.6	100% Tap						
10/17/2025	6:30 AM	35	4.2	100% Tap						
10/17/2025	6:30 PM	78	5.1	100% Tap						
10/18/2025	6:30 AM	57	5.8	100% Tap						
10/18/2025	6:30 PM	91	5.3	100% Tap						
10/19/2025	6:30 AM	55	4.9	100% Tap						

10/19/2025	6:30 PM	68	4.3	100% Tap						
10/20/2025	6:30 AM	46	4.5	100% Tap						
10/20/2025	6:30 PM	75	4.4	100% Tap						
10/21/2025	6:30 AM	35	5.4	100% Tap						
10/21/2025	6:30 PM	57	5.9	100% Tap						
10/22/2025	6:30 AM	44	5.7	100% Tap						
10/22/2025	6:30 PM	48	6.1	100% Tap						
10/23/2025	6:30 AM	42	5.4	100% Tap						
10/23/2025	6:30 PM	46	4.4	100% Tap						
10/24/2025	6:30 AM	35	6.3	100% Tap						
10/24/2025	6:30 PM	42	5.2	100% Tap						
10/25/2025	6:30 AM	33	4.9	100% Tap						
10/25/2025	6:30 PM	48	5.4	100% Tap	Neem Oil					
10/26/2025	6:30 AM	35	4.8	100% Tap	Possible Stunted Growth					
10/26/2025	6:30 PM	48	4.9	100% Tap						
10/27/2025	6:30 AM	39	4.9	100% Tap						
10/27/2025	6:30 PM	48	5.6	100% Tap						
10/28/2025	6:30 AM	37	5.1	100% Tap						
10/28/2025	6:30 PM	46	4.7	100% Tap						
10/29/2025	6:30 AM	39	5.8	100% Well						
10/29/2025	6:30 PM	46	5.9	100% Well						
10/30/2025	6:30 AM	48	5.1	100% Well						
10/30/2025	6:30 PM	48	6.3	100% Well						
10/31/2025	6:30 AM	42	4.4	100% Well						
10/31/2025	6:30 PM	48	5.2	100% Well						
11/1/2025	6:30 AM	37	5.6	100% Well						
11/1/2025	6:30 PM	48	5.8	100% Well						
11/2/2025	6:30 AM	39	4.8	100% Well						
11/2/2025	6:30 PM	48	5.5	100% Well						
11/3/2025	6:30 AM	35	6.9	100% Well						
11/3/2025	6:30 PM	48	6.3	100% Well						
11/4/2025	6:30 AM	35	5.4	100% Well						
11/4/2025	6:30 PM	48	5.5	100% Well						
11/5/2025	6:30 AM	37	5.5	100% Well						
11/5/2025	6:30 PM	60	4.9	100% Well						
11/6/2025	6:30 AM	33	4.1	100% Well						
11/6/2025	6:30 PM	44	4.7	100% Well						
11/7/2025	6:30 AM	33	4.6	100% Well						
11/7/2025	6:30 PM	55	5.6	100% Well						
11/8/2025	6:30 AM	46	5.2	100% Well						
11/8/2025	6:30 PM	53	4.4	100% Well	Neem Oil					
11/9/2025	6:30 AM	44	5.7	100% Well						
11/9/2025	6:30 PM	48	5.3	100% Well						

11/10/2025	6:30 AM	37	4.9	100% Well						
11/10/2025	6:30 PM	33	5.1	100% Well						
11/11/2025	6:30 AM	24	5.4	100% Well						
11/11/2025	6:30 PM	30	5.6	100% Well						
11/12/2025	6:30 AM	37	6	100% Rain						
11/12/2025	6:30 PM	44	6.1	100% Rain						
11/13/2025	6:30 AM	28	5.4	100% Rain						
11/13/2025	6:30 PM	42	5.7	100% Rain						
11/14/2025	6:30 AM	30	4.5	100% Rain						
11/14/2025	6:30 PM	48	4.4	100% Rain						
11/15/2025	6:30 AM	48	5.6	100% Rain						
11/15/2025	6:30 PM	59	6	100% Rain						
11/16/2025	6:30 AM	46	4.5	100% Rain						
11/16/2025	6:30 PM	41	5.2	100% Rain						
11/17/2025	6:30 AM	28	5	100% Rain						
11/17/2025	6:30 PM	37	0	100% Rain						
11/18/2025	6:30 AM	28	0	100% Rain						
11/18/2025	6:30 PM	42	0	100% Rain						
11/19/2025	6:30 AM	39	5.3	100% Rain						
11/19/2025	6:30 PM	39	5.7	100% Rain						
11/20/2025	6:30 AM	41	5.4	100% Rain						
11/20/2025	6:30 PM	44		100% Rain						
11/21/2025	6:30 AM	41		100% Rain						
11/21/2025	6:30 PM	50		100% Rain						
11/22/2025	6:30 AM	46		100% Rain						
11/22/2025	6:30 PM	42		100% Rain	Neem Oil					
11/23/2025	6:30 AM	39		100% Rain						
11/23/2025	6:30 PM	44		100% Rain						
11/24/2025	6:30 AM	32	0	100% Rain						
11/24/2025	6:30 PM	44	0	100% Rain						
11/25/2025	6:30 AM	46	0	100% Rain						
11/25/2025	6:30 PM	50	0	100% Rain						
11/26/2025	6:30 AM	51	0	100% Tap						
11/26/2025	6:30 PM	42	0	100% Tap						