Treatment #		Relative abundance in %				Brewing Time Notes	
	Aerated Compost Tea +	Enterobacter	Citrobacter	Klebsiella	Burkholdaria	12 hours	24 hours
1	No Feed						
2	Alfalfa Meal						
3	Kelp Meal						
4	Humic Acids						
5	Molasses						
6	Fish Hydrolysate						
7	Alfalfa + Kelp						
8	Alfalfal + Humic Acids						
9	Alfalfa + Molasses						
10	Alfalfa + Fish Hydrolysate						
11	Kelp + Humic Acids						
12	Kelp + Molasses						
13	Kelp + Fish Hydrolysate						
14	Humic Acids + Molasses						
15	Humic Acids + Fish Hydrolysate						
16	Molasses + Fish Hydrolysate						

				# of samples		Notes:	
2024	March		Announced Grants Awarded. Prepare for Implementation by starting compost tea trials			It takes 3 months to receive a report back from a DNA Testing lab	
	April		Cultivated robust vermicompost				
	May	1st half	Brew single treatments of compost tea for 12 hours with the addition of kelp, alfalfa, molasses, fish hydrolysate, and humic acids (Treatment # 1-6 as shown in the Safety of ACT Treatments tab)				
			Mail samples of compost teas and their vermicompost of origin to DNA lab (Aggrego Data) for testing	**7**	1st mailing		
			Mail samples of compost teas and their vermicompost of origin to microscopy lab (Bright Side Acres LLC) lab for microscopic identification of pathogens	**7**			
			Conduct an on-farm water test according to Produce Safety Rule standards	**1**			
		2nd half	Brew single treatments of compost tea for 24 hours with the addition of kelp, alfalfa, molasses, fish hydrolysate and humc acids (Treatment # 1-6 as shown in the Safety of ACT Treatments tab)				
			Mail samples of compost teas and their vermicompost of origin to DNA lab (Aggrego Data) for testing	**6**	2nd mailing		
			Mail samples of compost teas and their vermicompost of origin to microscopy lab (Bright Side Acres LLC) for microscopic identification of pathogens	**6**			
			In-depth literature review of microbiome of vermicompost and compost tea research				
	June	1st half	Brew single treatments of compost tea for 12 hours with the addition of combinations of kelp, alfalfa, molasses, fish hydrolysate and humc acids (Treatment # 1 and # 7- 16, as shown in the Safety of ACT Treatments tab)				
			Mail samples of compost teas and their vermicompost of origin to DNA lab (Aggrego Data) for testing	**11**	3rd mailing		
			Apply to be a speaker at the Carolina Stewardship's Sustainable Agricultural Conference in November				
			Mail samples of compost teas and their vermicompost of origin to microscopy lab (Bright Side Acres LLC) for microscopic identification of pathogens	**11**			
		2nd half	Brew single treatments of compost tea for 24 hours with the addition of combinations of kelp, alfalfa, molasses, fish hydrolysate and humc acids (Treatment # 1 and # 7- 16, as shown in the Safety of ACT Treatments tab)				
			Mail samples of compost teas and their vermicompost of origin to DNA lab (Aggrego Data) for testing	**11**	4th mailing		
			Mail samples of compost teas and their vermicompost of origin to microscopy lab (Bright Side Acres LLC) lab for microscopic identification of pathogens	**11**			
	July	1st half	Expected time for all completed Soil Biology Reports from Bright Side Acres received				
			Expected time for receiving the first mailing's microbiome report fron the DNA lab (Aggrego Data)				
		2nd half	Analysis and interpretation of different microbial assessments of microorganisms in compost teas and their vermicompost of origin				
			Updating the SARE Grant online				
	August	1st half	Expected time for receiving the second mailing's microbiome report fron the DNA lab (Aggrego Data)				
		2nd half	Analysis and interpretation of different microbial assessments of microorganisms in compost teas and their vermicompost of origin				
			Apply to speak at the VA Biological Farmers Conference on January 2025				
			Updating the SARE Grant online				
	September	1st half	Expected time for receiving the third mailing's microbiome report fron the DNA lab (Aggrego Data)				
		2nd half	Analysis and interpretation of different microbial assessments of microorganisms in compost teas and their vermicompost of origin				
			Updating the SARE Grant online				
	October	1st half	Expected time for receiving the third mailing's microbiome report fron the DNA lab (Aggrego Data)				
		2nd half	Analysis and interpretation of different microbial assessments of microorganisms in compost teas and their vermicompost of origin				
			Updating the SARE Grant online				
	November	1st half	Build Research Garden Beds in preparation for spring planting				
			Present current findings at the Carolina Stewardship's Sustainable Agricultural Conference				
		2nd half	Apply to be a speaker at the Organic Grower's School Spring Conference				
			Conduct an on-farm water test according to Produce Safety Rule standards	**1**			
	December		Conduct a literature review of current advances in compost tea safety and microbial populations				
2025	January		Present at the VA Biological Farmer's Conference				
	February		Start 32 determinate tomato seedlings				
	March	1st half					
			Install low tunnels on 8 research beds				
		2nd half	Transplant 32 tomato seedlings under hoops. Four for each 6 x 4 research bed				
			Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
	April	1	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
			Analyze current results and update SARE Grant online				
	May	1	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
			Analyze current results and update SARE Grant online				
		4	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
	June	1	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
			Analyze current results and update SARE Grant online				
	July	1	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
			Analyze current results and update SARE Grant online				
	August	1	Send the first batch of tomato samples to the Bionutrient Institute for Nutrient-Dense Analysis	**2**	1st tomato sample		
			Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				

	August	3	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
			Apply to speak at the VA Biological Conference in January 2026				
			Analyze current results and update SARE Grant online				
	September	1	Send the first batch of tomato samples to the Bionutrient Institute for Nutrient-Dense Analysis				
			Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in the "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in the "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control	**2**	2nd tomato sample		
			Analyze current results and update SARE Grant online				
	October	1	Send the first batch of tomato samples to the Bionutrient Institute for Nutrient-Dense Analysis				
			Treat 4 designated beds as shown in the "Layout of Beds" tab with the best performing "Safe Tea" and 4 other designated beds with control				
		2	Treat 4 designated beds as shown in "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
		3	Treat 4 designated beds as shown in "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
		4	Treat 4 designated beds as shown in "Layout of Beds" tab with best performing "Safe Tea" and 4 other designated beds with control				
			Analyze current results from Bionutrient testing, and update SARE Grant online				
	November	1st half	Research grant study, analysis of results, and writing				
			Present current findings at the Carolina Stewardship's Sustainable Agricultural Conference				
		2nd half	Apply to be a speaker at the Organic Grower's School Spring Conference				
	December	1st half	Preparation for In-Person and Online Outreach, Contact VA Tech for opportunities to do Online webinars on the topic of Safe Compost Tea				
		2nd half	Research grant study, analysis of results, and writing				
2026	January	1st half	Present research findings at the VA Biological Farmers Conference				
	February		Final wrap up and writing of the Compost Tea Microbial Feed Study				
	March						

	TOMATO TRIAL (notes on Disease suppression, yields, nutrient-density)																						
List of SAFE Compost Tea Treatments	April				May				June				July				August				September			
Week	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Aerated Compost Tea (no additive)																								
ex. alfalfa + kelp																								
ex. kelp																								
ex. alfalfa																								

			Date of Observation																							
			March					April				May				June					July				August	
Tomato Bed		Tomato #	3/3/2025	3/10/2025	3/17/2025	3/24/2025	3/31/2025	4/7/2025	4/14/2025	4/21/2025	4/28/2025	5/5/2025	5/12/2025	5/19/2025	5/26/2025	6/2/2025	6/9/2025	6/16/2025	6/23/2025	6/30/2025	7/7/2025	7/14/2025	7/21/2025	7/28/2025	8/4/2025	8/11/2025
1	SAFE TEA	1																								
		2																								
2	CONTROL	3																								
		4																								
3	SAFE TEA	5																								
		6																								
4	SAFE TEA	7																								
		8																								
5	CONTROL	9																								
		10																								
6	SAFE TEA	11																								
		12																								
7	CONTROL	13																								
		14																								
8	CONTROL	15																								
		16																								

A randomized arrangement of control and treated beds

1	2	1	1
2	1	2	2

1 - SAFE TEA
2 - CONTROL

A randomized arrangement of control and treated beds

1	2	1	1
2	1	2	2

1 - SAFE TEA

2 - CONTROL