

2024-25 Field Trial

Plant type: "Big Boy" Indeterminate Tomato Competitive Field Trial vs. Competitor ("Comp_w")

Summary: On 28 August 2025, we planted three "Big Boy" tomatoes, in 3 gallon pots. This was to establish a baseline of the SAI soil amendment, vs Compw, which also includes biochar+ compost+fungi. Base soil was fresh potting soil; all three pots got an initial dose of tomato fertilizer, and the same amount of water and sun. A second pot received a 50-50% dose (i.e. 24 cups) of the Compw blend, the lowest amount that they recommend on their bag. A third pot received a 20:1 (2.3c) dose of the SAI soil amendment (compost+biochar+bacteria+fungi+a water retention ingredient). All three plants were planted at a height of 15cm on 28 August 2025. The control plant started with 1 tomato and some blossoms, the Compw plant started with 2 tomatoes and some blossoms, and the SAI plant had blossoms and no tomatoes. Note: the Compw plant was planted with about 10x more soil amendment/pot compared to the SAI plant, using the Compw planting recommendations and the SAI planting recommendations.

<u>21 September 2025 Update</u>: the SAI treated plant (r) is growing about 2x faster than the Compw plant (c), and about 1.5x faster than the control plant (l).



Photo 1: The three Big Boy tomatoes in the 3 gallon pots. The control is on the left, the Compw is in the center, and the SAI treated plant is on the right.

<u>7 October 2025 Update</u>: We inspected the plants on 7 October 2025. The results are in the table below.

	<u>Height</u>	# Tomatoes	# Clusters	Avg Blossom/cluster
Control	54cm	4	3	4
$Comp_w$	46cm	3	2	3
SAI	83cm	3	4	5



Photo 2: side by side photo of the Compw plant on the left, and the SAI treated plant on the right. The height difference is obvious. If you look closely, you can see the clusters of blossoms, 2 for the Compw plant, and 4 for the SAI treated plant.

The SAI plant has grown 219% taller ((83-15cm)/(46-15cm)) than the Compw plant.

Regarding tomatoes: The SAI plant started with none, and has caught up to the Compw plant.

20 October 2025 Update:



Photo 3: The Compw (left) plant has 2 blossom stalks, with 3 blooms per stalk, for a potential of 6 tomatoes.

The SAI treated plant (right) has 6 blossom stalks, with 5 blossoms/stalk, for a potential of 30 tomatoes.

We will continue to monitor these plants, but expect frost to kill these plants prior to producing ripe tomatoes.

Not shown: the control plant still has 3 blossom stalks, with 4 blossoms/stalk.