

Compost Tea Data

Date Machine	Sample Number	Batch size	Brew Cycle	Aeration Time	Water temp	Fungi Booster	Bacteria Booster	Mineral Booster	Notes
05/16/2003 Bobolator	1420	25 gal	25 hrs	0	76	4 oz.	None	16 fl.oz.	Compost and Boosters were added at the beginning of the brew cycle and nothing more was added for the remainder of the cycle. Sample was drawn immediately after brew cycle ended and put in the refrigerator until sample 1421 was drawn.
05/16/2003 Bobolator	1421	25 gal	25 hrs	4hrs	76	4 oz.	None	16 fl.oz.	Compost and Boosters were added at the beginning of the brew cycle and nothing more was added for the remainder of the cycle and through the aeration period. This sample was aerated for four hours before being drawn. 1420 and 1421 are a comparison of CT without and with aeration, respectively.
05/23/2003 Bobolator	1451	25 gal	24hrs	2hrs	75	4 oz.	None	16 fl.oz.	Compost and Boosters were added at the beginning of the brew cycle and nothing more was added for the remainder of the cycle and through the aeration period.
05/30/2003 Bobolator	1506	25 gal	4.5hrs	23hrs	75	4 oz.	None	16 fl.oz.	Brew cycle only 4½ hrs. Theory was that extraction occurs in 4 - 6 hrs and then proliferation occurs during aeration. AF went down but TF went way up. Probably ran out of food.
06/05/2003 Bobolator	1544	25 gal	24hrs	2hrs	75	4 oz.	None	16 fl.oz.	24 hr brew cycle and 2 hr. aeration. Attached sponge to the end of the air tube to increase air diffusion and decrease ferocity.
06/05/2003 Bobolator	1545	25 gal	24hrs	2 + 3hrs	75	4 oz.	4 oz.	16 fl.oz.	After 1544 was extracted, 4 oz of Bacteria Booster was added and aeration continued for 2-3 more hrs.
06/12/2003 Bobolator	1578	25 gal	22hrs	5hrs	75	8 oz.	None	16 fl.oz.	Added 2 oz of the Fungi Booster and 8 oz of the mineral booster when the brew cycle began. 6 hrs later, added the same amounts again. When the brew cycle was done, added 4 more oz. Fungi Booster and aerated for 5 hrs.
06/18/2003 Bobolator	1600	30 gal	15hrs	5hrs	71 - 76	8 oz.	None	16 fl.oz.	Began the brew cycle at 1630 on 6/16 and ended at 0730 (began aeration) on 6/17. Water temp began at 71 but rose to 74 by the end of the cycle. Water temp rose to 75 -76 during aeration. Fungi Booster and Micro-humates added directly into tank (not through chamber). Undissolved material floated on top (hoping for timed release). Material disappeared under foam but foam disappeared during aeration. Added another 4 oz of Fungi Booster at 1230. Foam began to re-appear again. Aerated for 2 more hours and drew sample
06/25/2003 Bobolator	1631	50 gal	16hrs	5hrs	72 - 82	16 oz.	8 oz.	32 fl. oz.	Began the brew cycle at 1500 on 6/23 and ended at 0700 on 6/24. Water temperature began at 72 but by the end of the cycle, the temperature rose to 82. Started with 8 oz of Bacteria Booster and added 4 oz of Fungi Booster at 1700 and 4 oz more at the end of the brew cycle at 0700 (began aeration). Then added another 4 oz of Fungi Booster at 0900 and 4 oz more at 1100. Trying to breed bacteria first and let them provide resources for fungi later. Sample was drawn at 1300
07/03/2003 Bobolator	1666	50 gal	16½hrs	5½hrs	75 - 76	16 oz.	8 oz.	32 fl. oz.	This brew is a test to determine if the results of test 1631 can be duplicated. Brew cycle began at 1500 on 7/1/02 and ended at 0730 on 7/2/03. Water temperature began at 75 and only rose a degree or two overnight. Started the brew with 8 oz of Bacteria Booster and added 4 oz of Fungi Booster at 1700 and 4 oz more at the end of the brew cycle at 0720 (began aeration). Then added another 4 oz of Fungi Booster at 0930 and 4 oz more at 1125. Sample drawn at 1300

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07/10/2003 Bobolator	1696	50 gal	16hrs	6hrs	88	16 oz.	8 oz.	32 fl. oz.	1666 contained lower levels of fungi than 1631. The main difference was temperature. This brew is a test to determine if higher temperatures improve fungal growth. Brew cycle began at 1500 on 7/8/02 and ended at 0700 on 7/9/03. Water temperature began at 88 and remained constant through the night. After the brew cycle, the tank heater was disabled and temperature dropped to 82 during aeration. Started the brew with 8 oz of Bacteria Booster and added 4 oz of Fungi Booster at 1700 and 4 oz more at the end of the brew cycle at 0700 (began aeration). Then added another 4 oz of Fungi Booster at 0900 and 4 oz more at 1100. Sample drawn at 1300.
07/17/2003 Bobolator	1737	50 gal	16hrs	6hrs	84	20 oz.	4 oz.	32 fl. oz.	1696 grew good populations at higher temperatures. This test is to determine if I can narrow the ratio between fungi and bacteria. An equal amount of food is being used but more Fungi Booster and Less Bacteria Booster. Brew cycle began at 1500 on 7/15/02 and ended at 0700 on 7/16/03. Water temperature began at 84 - 85 and remained constant through the night. After the brew cycle, the tank heater was left on and temperature remained at 84 during aeration. Started the brew with 4 oz of Bacteria Booster and 4 oz of Fungi Booster. Another 4oz of Fungi Booster was added at 1700 and 4 oz more at the end of the brew cycle at 0700 (began aeration). Then added another 4 oz of Fungi Booster at 0900 and 4 oz more at 1100. Sample drawn at 1300.
07/24/2003 Bobolator	1768	50 gal	16hrs	6hrs	84 - 85	24 oz.	None	32 fl. oz.	1737 had a better ratio of Active to Total organisms. This test is to determine if the ratio can be narrowed even more. An equal amount of food is being used but it is all Fungi Booster. Brew cycle began at 1500 on 7/22/02 and ended at 0700 on 7/23/03. Water temperature began at 84 - 85 and remained constant through the night. After the brew cycle, the tank heater was left on and temperature remained at 84 - 85 during aeration. Started the brew with 8 oz of Fungi Booster. Another 4oz of Fungi Booster was added at 1700 and 4 oz more at the end of the brew cycle at 0700 (began aeration). Then added another 4 oz of Fungi Booster at 0900 and 4 oz more at 1100. Sample drawn at 1300.
08/01/2003 Bitti-Bob	1803	20 gal	15hrs	7hrs	82 - 83	8 oz.	4 oz.	16 fl.oz.	This is the first test with the Bitti-Bobolator. Brew cycle began at 1500 on 7/30/02 and ended at 0600 on 7/31/03 (began aeration). Water temperature began at 82 and remained constant through the night. After the brew cycle, the tank heater was left on and temperature remained at 82 during 4 hrs. of aeration. Heater was disconnected at 1000. Started the brew with 4 oz of Bacteria Booster. 4 oz of Fungi Booster was added at 1700 and 4 oz more at 0800. Sample drawn at 1300.
08/06/2003 Bitti-Bob	1815	15 gal	14hrs	7hrs	76	4 oz.	4 oz.	16 fl.oz.	Batch 1803 was high in total but relatively low in active organisms. Perhaps because the water was too warm and too much food was added (there was a noticeable odor). This brew cycle began at 1600 on 8/4/03 and ended at 0600 on 8/5/03 (began aeration). Water temperature began at 75 and remained constant. Tank heater was only used for initial warm-up and was disabled for brewing and aeration. Brew began with 2 oz of Bacteria Booster and another 2 oz was added 1945. 2 oz of Fungi Booster was added at 0600 and another 2 oz at 1000. Sample was drawn at 1300.

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08/13/2003 Bitti-Bob	1843	15 gal	17hrs	7hrs	76	4 oz.	4 oz.	16 fl.oz.	Batch 1815 was high in total F and B and active B but relatively low in active F. The brew looked (foamy) and smelled good. This brew cycle began at 1300 on 8/11/03 and ended at 0600 on 8/12/03 (began aeration). Water temperature began at 76 and remained constant. Tank heater was only used for initial warm-up and was disabled for brewing and aeration. Brew began with only 16 oz of Mineral Booster. No Bacteria or Fungi Booster were initially added. Theory: Extraction first, then feed for proliferation. 2 oz of Bacteria Booster added at 1700 (8/11), 2 oz of Fungi Booster added at 0600 (8/12), 2 oz of Bacteria Booster added at 0930, and 2 oz of Fungi Booster added at 1200. Sample was drawn at 1300. Very little foam formed in this batch
08/20/2003 Bitti-Bob	1870	15 gal	13hrs	7hrs	70 - 77	6 oz.	2 oz.	16 fl.oz.	Maybe the last test of the season. Still trying to increase AF. This brew cycle began at 1700 on 8/18/03 and ended at 0600 (began aeration) on 8/19/03. Water temperature began at 76 but dropped to ~70 overnight. Tank heater was used for initial warm-up and was used to reheat between 0600 and 0900. Temp went back to 77. Brew began with 16 oz of Mineral Booster and 2 oz of Bacteria Booster. 2 oz of Fungi Booster added at 0600 (8/19), another 2 oz added at 0900, and another 2 oz added at 1100. Sample was drawn at 1300.
08/27/2003 Bitti-Bob	1917	15 gal	13hrs	7hrs	65 - 77	6 oz.	2 oz.	16 fl.oz.	The conditions of this test are almost identical to 1870 except that Alaska Humus is used instead of NCO Tea Compost. This brew cycle began at 1700 on 8/25/03 and ended at 0600 (began aeration) on 8/26/03. Water temperature began at 77 but dropped to ~65 overnight. Tank heater was used for initial warm-up and was used to reheat between 0600 and 0900. Temp went back to 75. Brew began with 16 oz of Mineral Booster and 2 oz of Bacteria Booster. 2 oz of Fungi Booster added at 0600 (8/26), another 2 oz added at 0900, and another 2 oz added at 1100. Sample was drawn at 1300.
09/18/2003 Bitti-Bob	2016	28 gal	16hrs	6hrs	66 - 77	8 oz.	2 oz.	none	Found a 30 gallon drum and want to test the Bitti on a maximum sized batch. I also wanted to use up some old samples and mixed oat flour and dried molassas with the compost - 1 hr. before the brew began. This brew cycle began at 1530 on 9/16/03 and ended at 0700 on 9/17/03 (began aeration). Water temperature began at 66. Tank heater was used for warm-up and to maintain water temperature overnight. Brew began with 2 oz of Bacteria Booster. 2 oz of Fungi Booster added at 0700 (9/17), another 2 oz added at 0900, and 4 oz added at 1100. I also added supplemental air at 1100. Sample was drawn at 1330.