

## Log Book

### **Day 1 - Dec.23, 2025**

Today I started pre-germination of my Buttercrunch lettuce. To do this, I first started by filling a bowl with warm water. After, I placed about 60 seeds in the bowl of water. Then, I stirred the seeds for 20 minutes. After, I took the seeds out of the water and placed all the seeds on a moist paper towel. After, I placed another moist paper towel on top, covering the seeds.

### **Day 2 - Dec.24, 2025**

Today, I put water on both paper towels as they had dried out

### **Day 3 - Dec. 25, 2025**

Today, I moistened my paper towel again. Some of the plants have begun to germinate

### **Day 4 - Dec. 26, 2025**

Today, I started potting my plants. I am using plastic pots and potting mix. I first filled the pots with the dirt, then I placed the 3 best seeds on the paper towel inside. I repeated this 12 times. In the end, I had 12 pots with lettuce seeds inside them. I then watered all of the plants, so the seeds wouldn't die. I also made my grow light stand. To do this, I got help from an adult. We first cut the legs and the parts with the grow lights. We used wood. Then we used a stapler gun to connect all of the pieces of wood together. I then glued the grow lights to the 4 pieces of wood. After I put 3 pots under each grow light. I had 4 grow lights total. I also measured the weight of each plant.

### **Day 5 - Dec.28, 2025**

Today, the pH was at 6.5, which are perfect conditions for buttercrunch lettuce to grow. I also watered the plants to a moisture level of 6.5. I am checking the moisture level with a moisture meter and a Ph meter.

### **Day 6 - Dec.29, 2025**

Today, the plants had a moisture level of 2. I watered them to a 7.5

### **Day 7 Dec.30, 2025**

Today, the plants were at a moisture level of 4.5. I watered them to a 7.5

### **Day 8 Dec.31, 2025**

Today, only 8 of the plants needed to be watered. This may be due to the fact that the plants do not need as much water, now that they have sprouted above the surface of the soil.

Day 9 Dec.31, 2025

Today, all the plants were at a moisture level of 3. I watered them to a 7.5. pH level stayed the same

### **Day 9 Jan.1 2026**

Today, all of the plants were at a moisture level of 3, so I had to water them all. I watered them to a 7.5 pH level and stayed the same.

### **Day 10 Jan.2 2026**

Today, I measured the weight, height, and width of each plant. I also added fertilizer to each plant. pH level stayed the same.

### **Day 11 Jan.3 2026**

Today, the plants were at a moisture level of 3.1 I watered them to a moisture level of 7.5. pH level stayed the same.

### **Day 12 Jan.4 2026**

Today none of the plants needed water. pH level stayed the same

**Day 13 Jan. 5 2026**

Today, the plants were at a moisture level of 2. I watered them to a moisture level of 7.5. pH level stayed the same.

**Day 14 Jan.6 2026**

Today, the plants were at a moisture level of 4. I watered them to a 7.5. pH level stayed the same

**Day 15 Jan.7 2026**

Today, none of the plants needed to be watered. pH level stayed the same

**Day 16 Jan. 8 2026**

Today, the plants were at a moisture level of 3. I watered them to a 7.5. pH level stayed the same

**Day 17 Jan.9 2026**

Today, the plants did not need to be watered. pH level stayed the same.

**Day 18 Jan.10 2026**

Today, the plants were at a moisture level of 5. I watered them to a moisture level of 7.5. pH level stayed the same

**Day 19 Jan.11 2026**

Today, I did not need to water any of the plants. pH level stayed the same

**Day 20 Jan.12 2026**

Today, I measured the width, height, and weight of each plant. I also added fertilizer to each plant. pH level stayed the same.

**Day 21 Jan.13 2026**

Today, I did not need to water my plants. pH level stayed the same.

**Day 22 Jan.14 2026**

Today, the plants were at a moisture level of 4. I watered them to a moisture level of 7.5 pH level stayed the same.

**Day 23 Jan.15 2026**

Today, I did not water any of the plants. pH level stayed the same.

**Day 24 Jan.16 2025**

Today, the plants were at a moisture level of 1. I watered them to a 7.5. pH level stayed the same

**Day 25 Jan.17 2026**

Today, the plants did not need to be watered. pH level stayed the same.

**Day 26 Jan.18 2026**

Today, I watered the plants to a moisture level of 7.5. pH level stayed the same.

**Day 27 Jan.19 2026**

Today, I measured the width, height, and weight of each plant. I also put fertilizer into each plant. pH level stayed the same

**Day 29 Jan.20 2026**

Today, I did not water the plants. pH level stayed the same.

**Day 30 Jan.21 2026**

Today, the plants were at a moisture level of 3. I watered them to a 7.5. pH level stayed the same.

**Day 31 Jan.22 2026**

Today, I did not water the plants. pH level stayed the same

**Day 32 Jan.23 2026**

Today, I measured the width, height, and weight of each plant. I also gave fertilizer to each plant. pH level stayed the same

**Day 33 Jan.24 2026**

Today, I shortened the legs on the grow light stand. I needed to because the plants need to be close to the light to grow stable and strong. I did not water the plants. pH level stayed the same.

**Day 34 Jan.25 2026**

Today, the plants were at a moisture level of 4. I watered them to a 7.5. pH level stayed the same

**Day 35 Jan.26 2026**

Today, I did not water the plants. pH level stayed the same.

**Day 36 Jan.27 2026**

Today, I watered the plants to a moisture level of 7.5. pH level stayed the same

**Day 37 Jan 28 2026**

Today, the plants were at a moisture level of 3. I watered them to a 7. pH level stayed the same.

**Day 38 Jan.29 2026**

Today, I took pictures of each plant, measured the weight, height and width of each plant. I also gave fertilizer to each plant. pH level stayed the same

**Day 39 Jan.30 2026**

Today, I did not water the plants. pH level stayed the same

**Day 40 Jan.31 2026**

Today, the plants were at a moisture level of 3. I watered the plants to a moisture level of 7.5 pH level stayed the same

**Day 41 Feb.1 2026**

Today, I did not water the plants. pH level stayed the same.

**Day 42 Feb.2 2026**

Today, the plants were at a moisture level of 3.5. I watered the plants to a 7.5. pH level stayed the same

**Day 43 Feb.3 2026**

Today, I did not water the plants. pH level stayed the same.

**Day 44 Feb.4 2026**

Today, the plants did not need to be watered. pH level stayed the same.

**Day 45 Feb.5 2026**

Today, I measured weight, height, and width of each plant. I also took pictures of each plant, as well as add fertilizer to each plant.

**Day 42 Feb.12 2026**

Today, I measured the width, weight, height, and also took pictures of each plant. I also added fertilizer to each plant. pH level stayed the same

