



#### 4/10 report by Belle Sullivan, Mia Water, and Marc Rubin

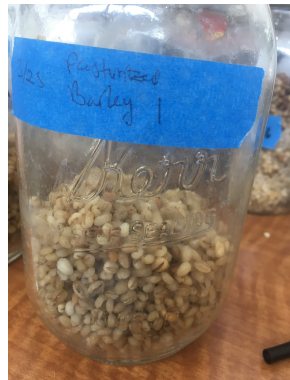
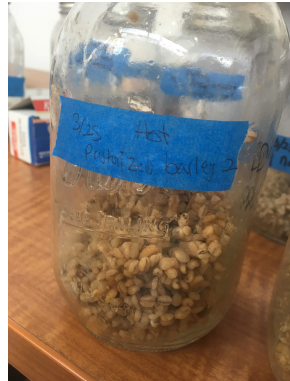

Most interested in jars started in 3/27. Both are full of mycelium, updated pictures are below. We are starting grow bags with the mycelium from 3/27 #2.

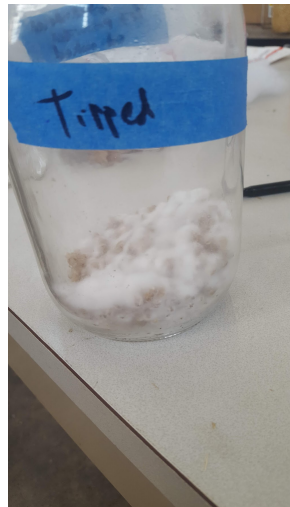
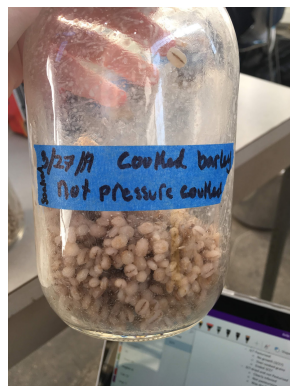
#### Questions

How long should it take for mycelium to spread through the substrate bags?

#### Spawn Jars

Date	Description	Results	Photos
3/6/19 #1	Sorghum grain cooked strained and left to dry overnight. Two plugs added. Not pasteurized.	By 3/19 visible growth around plugs. By 3/25 significant growth, no contamination. Growth is not surrounding whole jar, most likely the grain was too wet in places. Note : was used to start garbage bag trail 1  Ended 4/10	
3/6/19 #3	Sorghum grain cooked strained and left to dry overnight. Two plugs added. Not pasteurized.	Significant growth. Started visible growth 3/19. Still growing slowly as of 4/3. No contamination. Grains appear overcooked and wet.  Ended 4/10	



3/25 #1	Barley, cooked and pasteurized for one hour.	No growth Note: mysterious orange color  Ended 4/10	
3/25 #2	Barley, cooked and pasteurized for one hour.	No growth Note: mysterious orange color  Ended 4/10	
3/27 #1	Barley. Soaked for two nights, dried, cooked, and pasteurized.  Pressure cooked for about 1:15	4/10: Less growth than #2	

3/27 #2	<p>Barley. Soaked for two nights, dried, NOT cooked, and pasteurized.</p> <p>Pressure cooked for about 1:15</p>	<p>4/10</p> <p>Almost completely full of growth - ready to go into a grow bag</p>	
3/27 #3	<p>Barley, Soaked for two nights, dried, cooked and not pasteurized</p>	<p>No growth</p> <p>Ended 4/10</p>	
Near Future	<p>Start millet jars</p> <p>Soaked, cooked and pasteurized</p>		

**Over all notes:** The 3/27 jars are the most promising. It appears that the grains do not need to be completely cooked. The pasteurization process is necessary unless there is a very sterile work space.

### Grow Bags

Trial	Description	Results	Photos
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#1 3/6	Moist straw in a grow bag with two plugs left to sit in a dark box	No results until 4/1 Fuzzy growth around the plugs Note: very exciting because of lack of effort, but extremely slow	
#2 3/27	Garbage bag filled with sawdust and spawn from the 3/6 #1 jar	Giving more time before we open. Feels very loose. No reason to suspect any growth has occurred.	
4/10 #1	Boil straw to pasteurize.	Putting in spawn from 3/27 jars with purchased grow bags.	

**Overall Notes:** The sawdust is not a good substrate alone. Should be using straw. Want to consider adding wood chips to substrate.