Are Wood Bugs attracted to Fruit? If so what Fruits?

Partners: Nick Purdy, Holden Sullivan



Habitat of Pill Bugs: Pill Bugs will live just about anywhere if that location provides them with lots of moisture and dead plants to eat, but they tend to be most found in forests and other humid environments. Pill Bugs can also be found along some shorelines among the rotting wood and wet rocks.



Hypothesis: If Pill Bugs are even attracted to Fruit, then we believe that Pill Bugs will more heavily drawn towards Fruits that have the highest water content.

Materials:

- Pill Bugs
- Jar to Contain Pill Bugs

- Pan or Box to preform experiment in
- Fruits; Apple (sliced), Orange (peeled), Banana (peeled and sliced), Blackberry (smushed).
- Timer

Procedure: 1. Prepare the Fruit in the box and get the Pill Bugs ready for entry. 2. Drop the Pill Bugs into the box and start the timer, (we want to perform the experiment in multiple attempts to receive the most accurate results from the Pill Bugs). 3. Let the Pill Bugs wander around the Box for a few minutes and see what fruit they are most drawn too. 4. After a few minutes retrieve the Pill Bugs from the box and then wait a few moments before placing them into the box again. 5. After 4 attempts record all data from the Pill Bugs about what fruit they were most drawn too and then proceed to place them back into their Jar. 6. Every time a trial ends alter the positioning of each fruit to see if the Pill Bugs are drawn to the specific fruit or just the positioning in the tin.

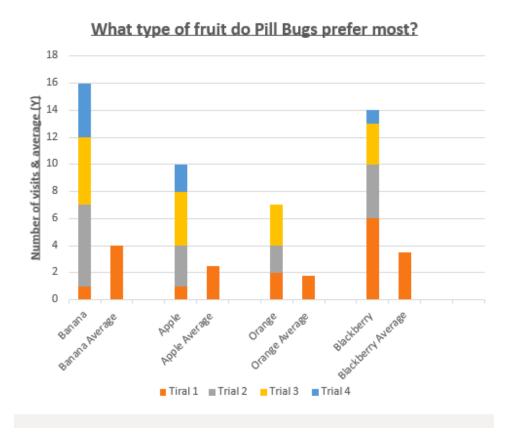


6 Active Pill Bugs

Fruits	Trial 1	Trial 2	Trial 3	Trial 4	Average Visits
Apple	1	3	4	2	2.5
Orange	2	2	3	0	1.75
Blackberry	6	4	3	1	3.5
Banana	1	6	5	4	4

Qualitative Observations: During the experiment we noticed that the Pill Bugs were more heavily drawn to fruits like the Banana and Blackberry, rather than the Apple and Orange. We also noticed that even though the Pill Bugs visited all the fruits they spent more time consuming or wandering over the Banana and Blackberry, opposed to

the little amounts of time spent exploring and consuming the Apple and Banana.



Conclusion: In conclusion our hypothesis was correct. We believed that if the Pill Bugs were to be drawn to fruit, then we assumed that they would be drawn to the fruits that have the highest water content. And after preforming the experiment we observed and recorded that the Pill Bugs were more drawn to Banana and Blackberry which are both quite high in water content. We also confirmed the fact that Pill Bugs are in fact attracted to Fruit. One error we observed in the experiment was that not all the Pill Bugs we chose were extremely active. That is why even though we had about 10 Pill Bugs ready before the experiment, only 6 of the Pill Bugs proceeded to be active. One improvement we could make if we were to perform this experiment

again would be to beforehand make sure that all the Pill Bugs are active and prepared to be tested upon.