



MAY THE BEST SOIL WIN!!!

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C35

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PURPOSE & HYPOTHESIS

The purpose of this project is to find the most efficient type of soil and maybe save some money long term. My hypothesis is that the premium potting soil (medium price soil) will be more efficient and will help the radishes grow because of the type of ingredients. Additionally I will be using organic and non organic seeds to determine if the soil will make a difference .

EXPENSIVE SOIL OR COST EFFECTIVE

I thought this would be a fun experiment for me because I saw some people on the internet do this, all of them got the “most expensive soil” **But is it worth it?**

My parents assumed it would be the most expensive one obviously but I thought it would be the medium priced one.

I also chose to experiment with two types of radish seeds (organic and non organic). One in my room and one in the kitchen. This project interested me because it is food my parents like and pretty good on tacos, also I have never ever planted something and trying something new would be cool. Also *IT IS FUN*, why not do something that will help people determine which is the better soil for them and to have fun.

MATERIALS

- **Organic soil \$7.00** Forest Products (peat, processed forest products, coir ,compost) peat moss, fertilizer and a wetting agent. Compost, sphagnum peat moss, fertilizer and a wetting agent. - ingredients for the CHEAPEST SOIL.
 - **Premium potting soil \$8.00** (Forest Products, Peat Moss, Vermiculite, Pumice, Bone Meal, Blood Meal, Cottonseed Meal, Alfalfa Meal and Earthworm castings - ingredients for MEDIUM PRICE SOIL.
 - **The expensive one being worm gold plus \$10.00** ingredients No added chemicals Worm castings ,Rock dust, Kelp- ingredients EXPENSIVE PRICE
- *all of these in their pot have 2 cups in each
- organic radish seeds and normal radish seeds
 - H2O
 - plastic container for the germinating

EXPERIMENT

- First we went to the stores and got the soils and the seeds.
We started on **December 29th** by doing the germination process. I did it wrong the first time because I put it upside down instead of putting the seeds in the cup, we did it again and it worked because this time we put the seeds in with the napkin on the bottom of the cup and let it moisten up a bit.
- We got solo red cups and drilled holes into the bottom so we can start planting.
- On **January 4th** the **premium potting soil sprouted** a little which was the *non organic seeds in my room* (we made two sets of it one in my room and one by the kitchen window to make this experiment a bit more interesting)
- The second soil to sprout was on **January 6th** which was the **worm gold plus** sprouted with the *organic seeds* in my room .
- The third was on **January 9th** the **worm gold plus soil** which was *non organic seeds* this time it was in the kitchen window.
- Last one to sprout is on **January 14th** with the *organic seeds* with **premium potting soil** on the kitchen window.

Finally, the winner is the **worm gold plus**. The *non organic seeds* did best, the *kitchen window* did the best and the **organic soil** didn't sprout any at all.



The germination process



Growing in the red cups



Sprout



SEE FOR YOURSELF...





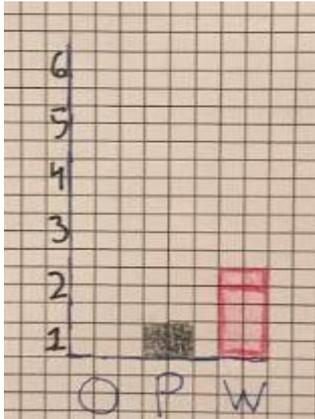
ANALYSIS

Sprouts

3 from my room on January 4th (*non organic/premium potting soil*), January 6th (*organic/worm gold plus*), January 9th (*non organic/ worm gold plus*).

in the kitchen on January 6th (*non organic/worm gold plus*), January 10th (*non organic/worm gold plus*), January 14th (*organic/ premium potting soil*).

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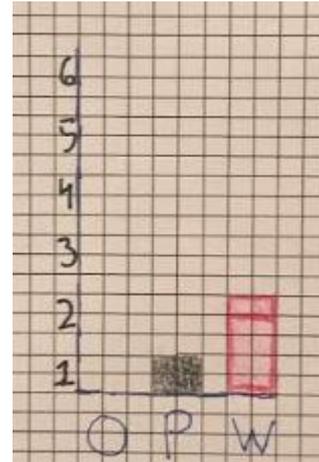


Number of sprouts →

This one over here are the one in the kitchen →
← This one is my room

Number of sprouts →

O(organic soil) P(premium potting soil) W(Worm gold plus)



CONCLUSION

The best soil is *drum roll please!* Budum budum budum

WORM GOLD PLUS/EXPENSIVE SOIL.

SECOND PLACE PREMIUM POTTING SOIL/MEDIUM PRICE SOIL.

LAST IS THE ORGANIC SOIL/CHEAPEST SOIL.

My hypothesis was wrong because I thought it was gonna be the medium priced soil, but at least the worm gold plus soil (most expensive) is worth it's money, then again the medium one came second place. Turns out that the cheapest price is not the way to go.

I think worm gold plus is the best because it is so simple it did not have bone meal, blood meal , sphagnum moss. There was no money saving results I hoped for but we know which is the most efficient soil to use at least it is not scamming you in any way and it is worth it. I think a big factor was because it had no chemicals that could have been a big factor.



REAL WORLD CONNECTION

I learned that taking care of plants is like having a dog or any pet, they need sun and water and it is not easy. It takes a lot of time and that there is no short cuts. It took a lot of trial and error which was hard to adjust and to get it right, and oh boy is it hard to plant or take care of whatever you think it as a dog, cat or fish anything. Seeing it sprout makes you feel joy in my opinion it takes a lot of time no matter how many shortcuts you take (it doesn't count if you get a pre planted anything). I hope this information helps you get started with planting with good soil.



WORKS CITED

How To Plant and Grow Radishes | Easy To Grow Radishes

Radishes: Planting, Growing and Harvesting

Radish - Vegetable Directory - Watch Your Garden Grow

These are some websites I used to look how to plant these radishes.

Just click on the website you want to visit.

These websites helped me so did:

my mom, Joslyn Martinez helped designing the slides, grammar and organization. My dad, Alejandro Martinez helped put my ideas into words and grammar A LOT.

Most of my inspiration was from my grandma and a little bit of a youtuber who planted 20 MILLION TREES.