

Best In-Law Firewood

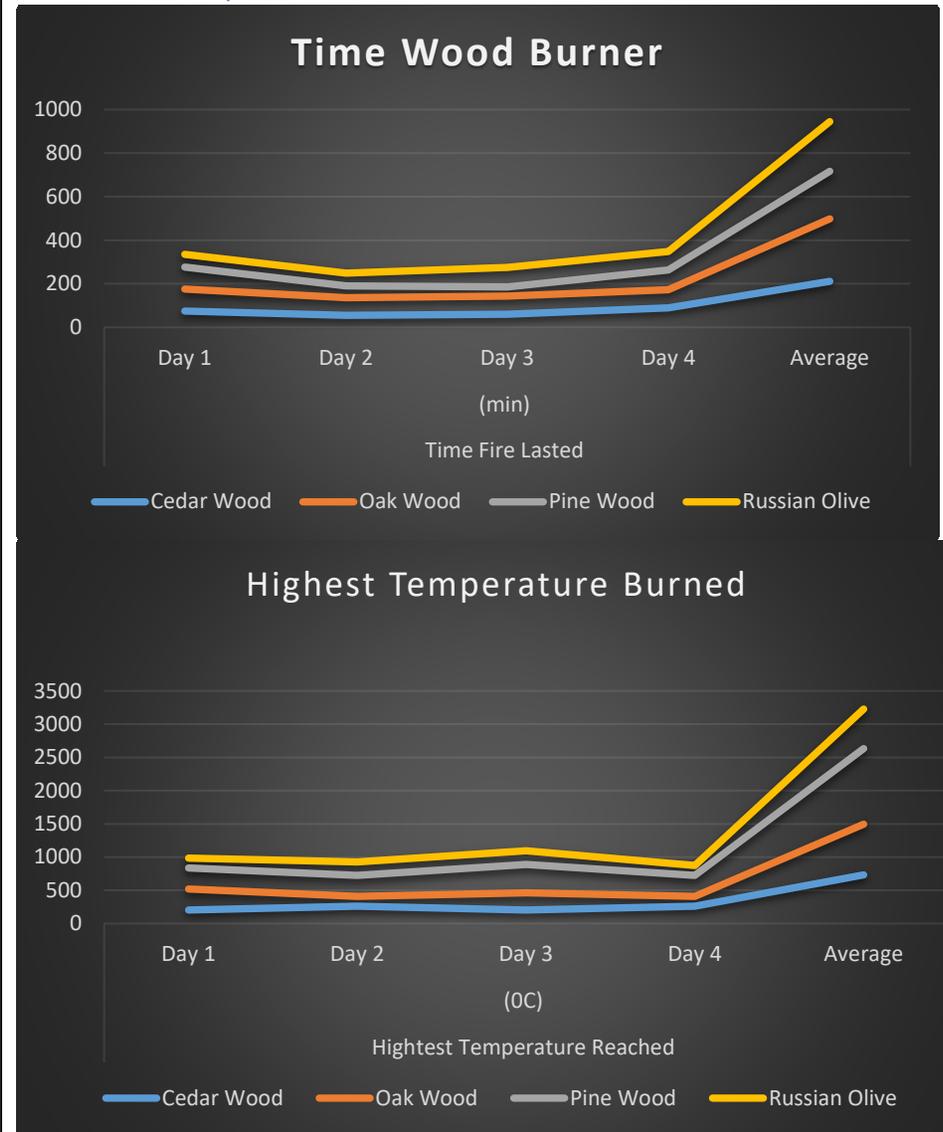
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Project ID#

Q1: Research Question/Engineering Goal

Which firewood would burn the hottest and burn the longest?

Q3: Data Analysis & Results



Q2: Methodology/Project Design

1. First of all you need to gather the woods you are going to use which are 3 pines, 3 oak, 3 Cedar, 3 Russian olive
2. Once you get your woods you about to start the project, but make sure you clean out the ash before you start the fire it could affect the heat and time of your wood
3. Get Newspaper and your woods chips which is going to be your fire starter
4. Get your match and stopwatch ready, make sure you get the room temperature you started at and make sure the stove thermometer is at 0 degree
5. Once you lit the match you start the newspaper and the making sure the wood chip was caught on fire to then start the stopwatch and check what time you start the fire to
6. Then start adding the wood you wanted to test first I add 1 at a time until the fire was strong enough to support 2 more woods
7. Once after that I checked the fire every time the stove thermometer hit 100 degree then I will check the room temperature and check the stopwatch for how long it took for the

Q4: Interpretation & Conclusions

My hypothesis was that Pine would burn the longest and that oak will burn the longest. In conclusion from the experiment I did, Pine was the hottest it burn it reach up to 600 degree, but the con about burning pine was it didn't burn that long. Meanwhile Oak on the other hand didn't burn as hot, but it did burn for a long time I was surprise that Russian olive did burn for a very long time, but I did notice that Russian olive didn't warm up the room enough it was still cold and the fire wasn't that hot as pine was. Cedar on the other hand it was average, but the time of the cedar seem short. Pine is a good wood to burn if you want your house to be like a sweat lodge because it will get hot like hot. If you want the fire to keep going for a long time I would recommend Russian Olive and Oak. If you want a average amount of heat and temperature and want it to last for a while I would go with Cedar wood.

fire to hit 100 degree and keep doing that every time the stove thermometer would get every 100 degree

8. Repeat step 7 until the fire turns into red amber
9. Once the fire turn into red amber you stop the timer then check the room temperature one last time to see what the room temp was
10. Once you did step 9 then put in 3 more woods but make sure they are different, the reason we put wood once it turns into red amber is because it going to take a while to make the fire start again
11. After that repeat the whole process again step 6 – 9 again until you are finish