









FIRE IN THE FOREST

PURPOSE

When studying a tree trunk, other parts of it will affect the growth rate of the tree. The purpose of this project is to determine if controlled burning will increase the growth rate of the pine trees. This will be measured by comparing the growth rate of a pine tree that has been periodically burned with a pine tree that has never been burned.

HYPOTHESIS

If a stand of pine trees is treated with controlled burning, then the growth rate of the trees will be higher than a stand that is not burned because there will be less competition for nutrients, water, and sunlight.

ABSTRACT

Research was done. This was an experiment. Control trees were used. There is a good thing. People need to know that a controlled burn is not a wildfire and can help increase growth of a better tree. An experiment was done. It is a tree that is burned. This tree should grow at a faster rate because there is less competition. The background is that many humans have been cutting down trees. There is a good thing. This is an experiment for research. It is a good thing. This is an experiment for research. It is a good thing. This is an experiment for research.

PROCEDURE

Step 1: Select two stands of pine trees that are the same size. One stand that has been burned and one that has not been burned.

Step 2: Measure the diameter of each tree at the same point on the trunk. Record the diameter in centimeters.

Step 3: Measure the tree growth rings on each tree. Record the number of growth rings on the left side of the trunk on each tree.

Step 4: Repeat the diameter measurement after one year.

Step 5: Compare the data to see which tree grew faster.

Step 6: Repeat the diameter measurement after two years.

Step 7: Compare the data to see if the diameter of the trees has increased.

VARIABLES

INDEPENDENT VARIABLE
The stand of pine trees that has been periodically burned (control tree).

DEPENDENT VARIABLE
The diameter of the tree trunk that has been periodically measured to determine growth (control tree).

CONTROLLED VARIABLES
The amount of pine trees that have been periodically measured to determine growth (control tree).

CONTROL
One stand of pine trees is burned and one stand of pine trees is not burned.

CONCLUSION
One stand of pine trees is burned and one stand of pine trees is not burned. The trees that were burned grew faster than the trees that were not burned.

DATA

Sample	Growth Rate (cm/year)
Sample 1	1.5
Sample 2	2.0
Sample 3	2.5
Sample 4	3.0
Sample 5	3.5
Average	2.5

Sample	Burned	Unburned
Sample 1	11	19
Sample 2	8	21
Sample 3	11	21
Sample 4	12	20
Sample 5	12	20
Average	11.4	20











