



Project 1

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Goal

For our project took a look at school funding by state from the year 2019. We then looked at each state's rate of pregnancies from teens aged 15-19 from the same year to see if there was any correlation between how much school funding a state receives and their teen pregnancy rates. We expect to find a negative correlation between the amount of funding a state receives for education and the amount of teen pregnancies they have.

Data

We got our data from the CDC website regarding the teen pregnancies and the funding information from the census websites. They were converted into csv files and then further cleaned in pandas.

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

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NCHS - U.S. and State Trends on Teen Births

NCHS

This dataset assembles all final birth data for females aged 15-19, 15-17, and 18-19 for the United States and each of the 50 states.


Data are based on 100% of birth certificates filed in all 50 states. All the teen birth rates in this More

Updated May 9, 2022
Data Provided by NCHS/DVS

Featured Content Using this Data

Dashboard: U.S. and State Trends on Teen Births

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Annual Survey of School System Finances

Education finance data include revenues, expenditures, debt, and assets [cash and security holdings] of elementary and secondary public school systems. Statistics cover school systems in all states, and include the District of Columbia.

Featured

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Yes



No

Jupyter Data Last Checkpoint: a day ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Not Trusted Python 3 (pykernel)

Run

Out[87]:

Each "State" has three rows to display pregnancy from 15-17, 15-19, 18-19 for a total of 156 rows

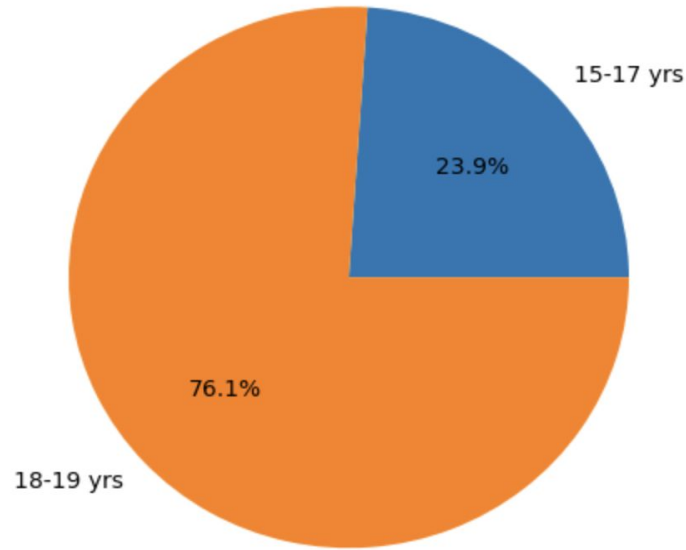
	State	Total Revenue	From federal sources	From state sources	From local sources	Total Expenditure	Current spending	Capital outlay	Other 2	Debt outstanding at end of fiscal year	Cash and securities	Year	Age Group (Years)
0	United States	751195882.0	67878662.0	350913041	342403879.0	752313761.0	652296632.0	78281809.0	23736320.0	494943150.0	270563906	2019	15-11 years
1	United States	751195882.0	67878662.0	350913041	342403879.0	752313761.0	652296632.0	78281809.0	23736320.0	494943150.0	270563906	2019	15-11 years
2	United States	751195882.0	67878662.0	350913041	342403879.0	752313761.0	652296632.0	78281809.0	23736320.0	494943150.0	270563906	2019	15-11 years
3	Alabama	8412132.0	867947.0	4703782	2840403.0	8360002.0	7588368.0	593970.0	177964.0	4863725.0	2577325	2019	15-11 years
4	Alabama	8412132.0	867947.0	4703782	2840403.0	8360002.0	7588368.0	593970.0	177964.0	4863725.0	2577325	2019	15-11 years
...
151	Wisconsin	12383896.0	820330.0	6823763	47498003.0	12597517.0	10916575.0	1351644.0	329298.0	7715780.0	4835196	2019	15-11 years
152	Wisconsin	12383896.0	820330.0	6823763	47498003.0	12597517.0	10916575.0	1351644.0	329298.0	7715780.0	4835196	2019	15-11 years
153	Wyoming	1785211.0	132060.0	964553	686586.0	1716125.0	1532273.0	181815.0	2037.0	49650.0	772233	2019	15-11 years
154	Wyoming	1785211.0	132060.0	964553	686586.0	1716125.0	1532273.0	181815.0	2037.0	49650.0	772233	2019	15-11 years
155	Wyoming	1785211.0	132060.0	964553	686586.0	1716125.0	1532273.0	181815.0	2037.0	49650.0	772233	2019	15-11 years

156 rows x 18 columns

Question 1

What percentage of teen births are more frequent by age range for 15-19 year olds in the US?

US Births Age 15-19

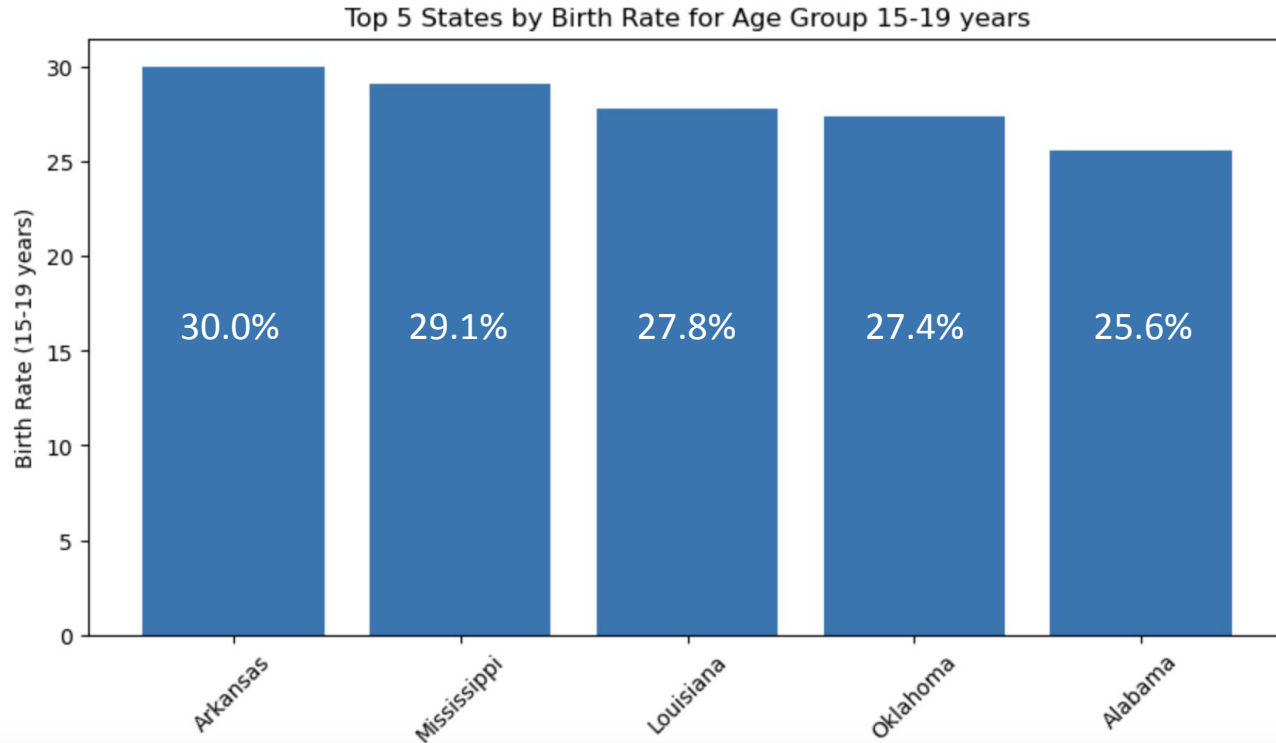


	State	Age Group (Years)	State Rate	State Births	U.S. Births	U.S. Birth Rate	Unit
0	United States	15-17 years	6.7	41,081	41,081	6.7	per 1,000
2	United States	18-19 years	31.1	130,593	130,593	31.1	per 1,000
1	United States	15-19 years	16.7	171,674	171,674	16.7	per 1,000

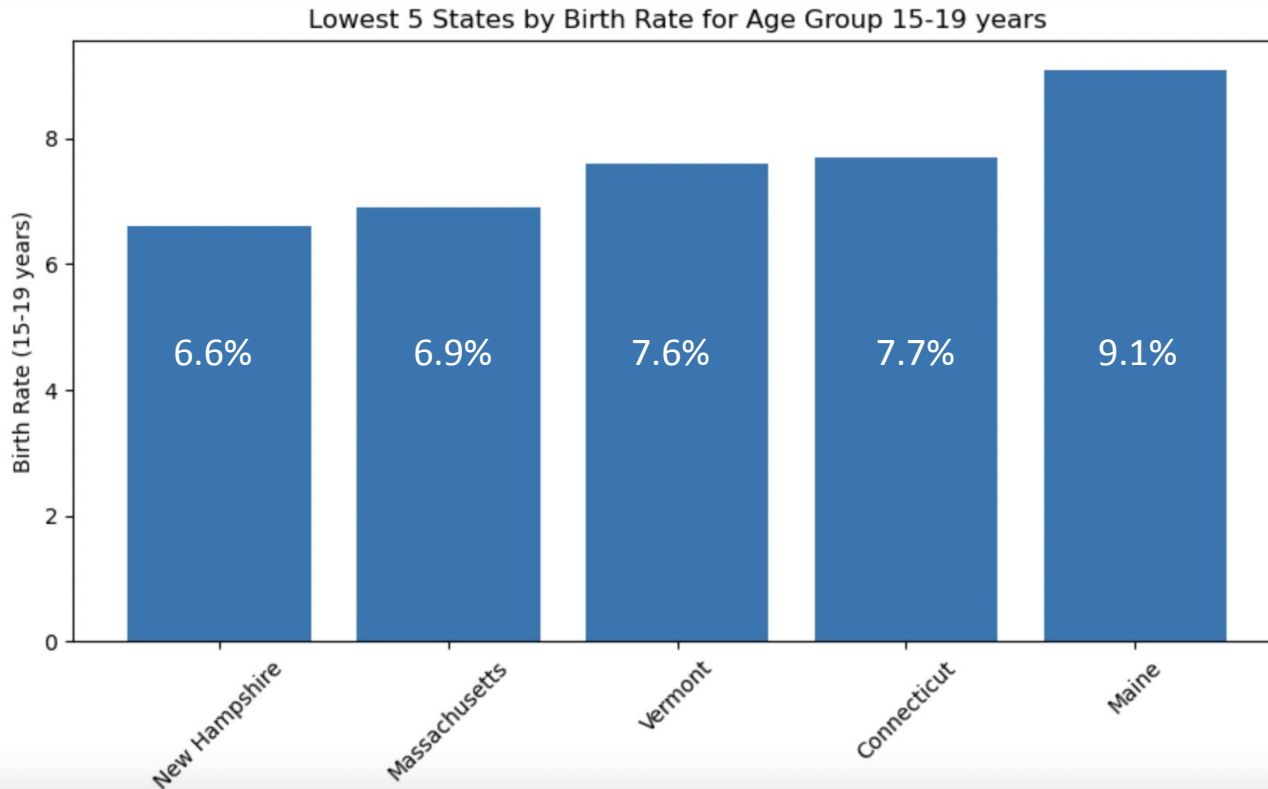
Question 2

Which states have the highest and lowest birth rate for teens?
Similarly, which states have the highest and lowest school funding?

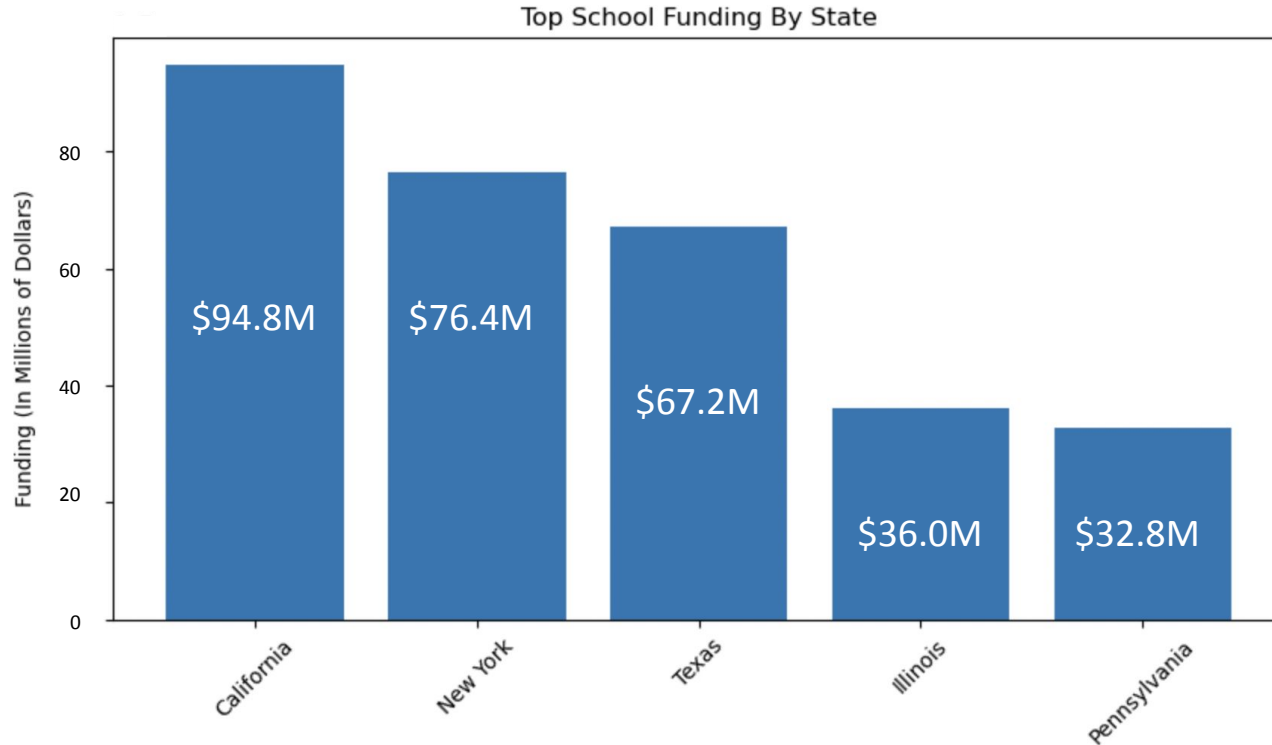
Highest Birth Rates by State %



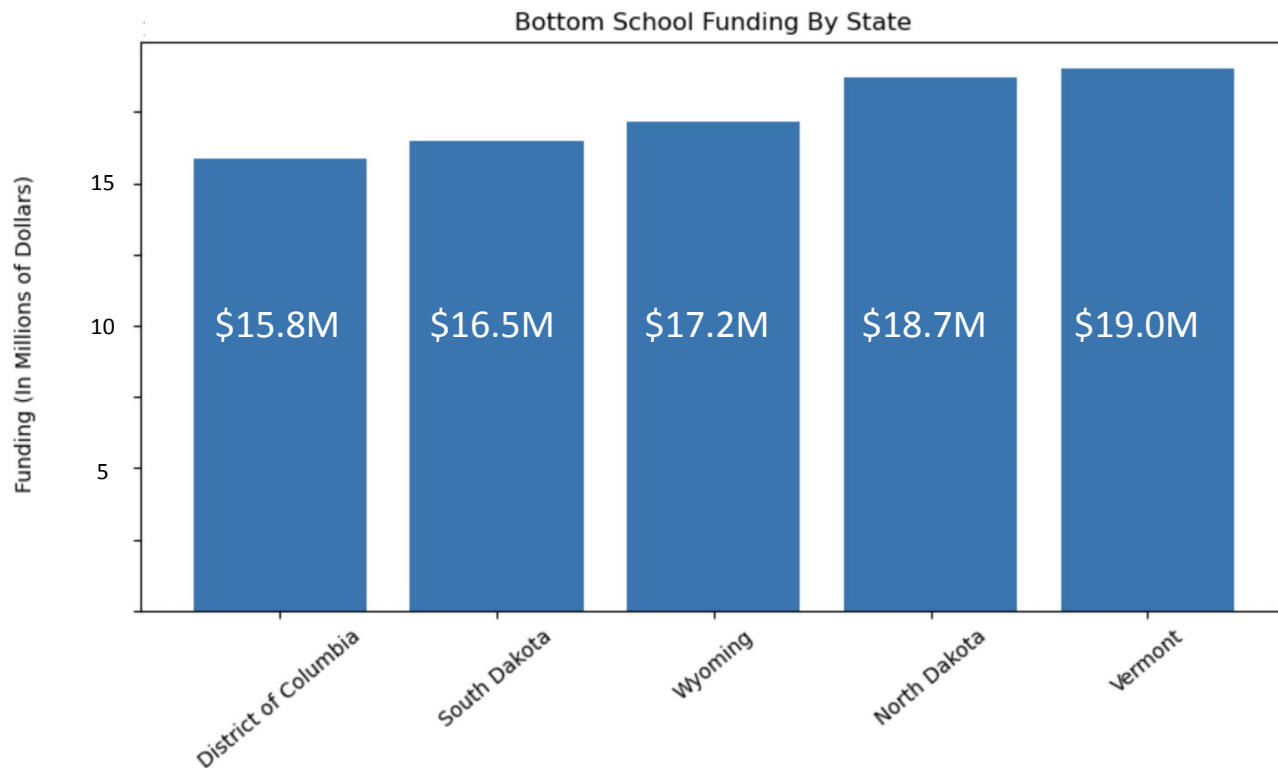
Lowest Birth Rate by State %



Highest Funding by State



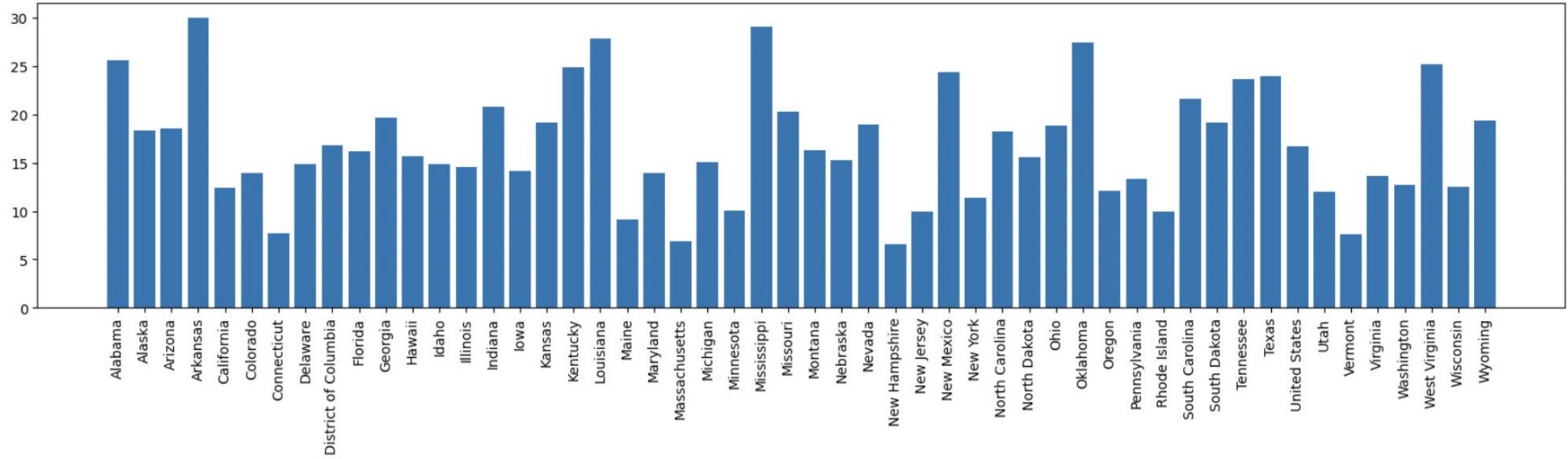
Lowest Funding by State



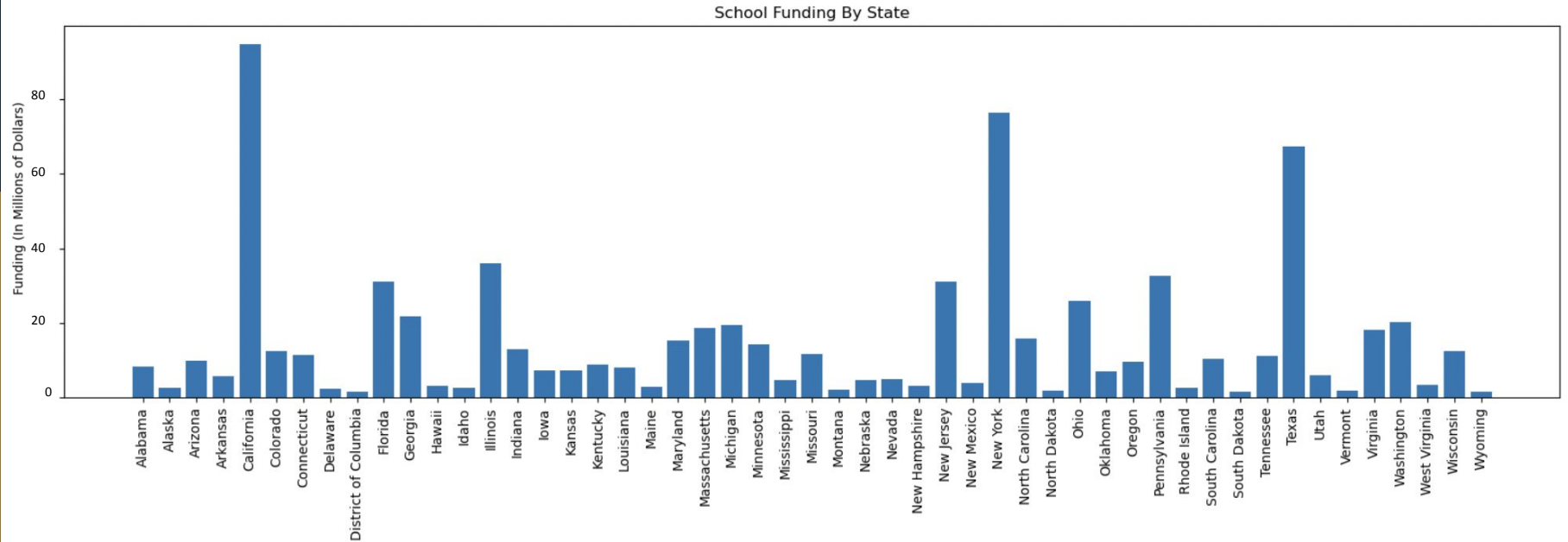
Question 3

Is there a relationship between the amount of school funding a state receives and the state's number of teen pregnancies?

Birth Rate by State % (Age 15-19)



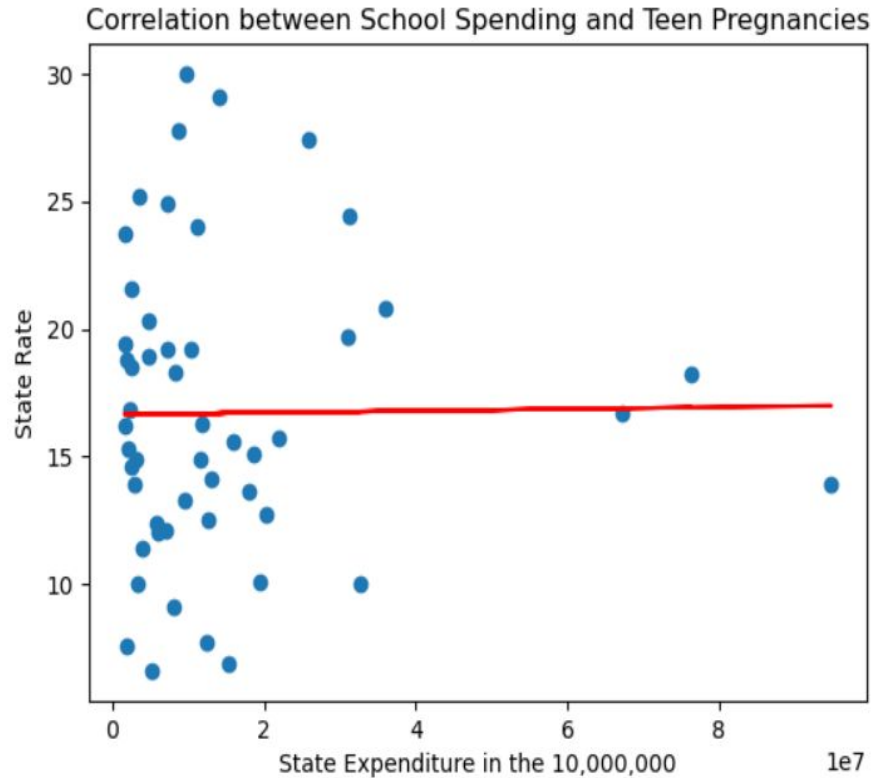
School Funding by State



Correlation:

The data had an r-value -0.143375 showing that our hypothesis was Incorrect, there seems to be very Little correlation between funding and teen pregnancies

Why might this be?



Conclusion

After analyzing all of our data, we came to the conclusion that there was not a clear positive or negative correlation between state education funding and teen birth rates. The outliers in our data were California, New York, and Texas, most likely due to them having a much larger population than most other states. However, their birth rates for teens 15-19 were not much higher than other states when compared to the state rate as a whole.

Other Factors and Questions?

Here we wanted to discuss other factors that affect our research but due to time and scale we couldn't factor in.

How school spend their funds

Racial, and socio-economic disparity