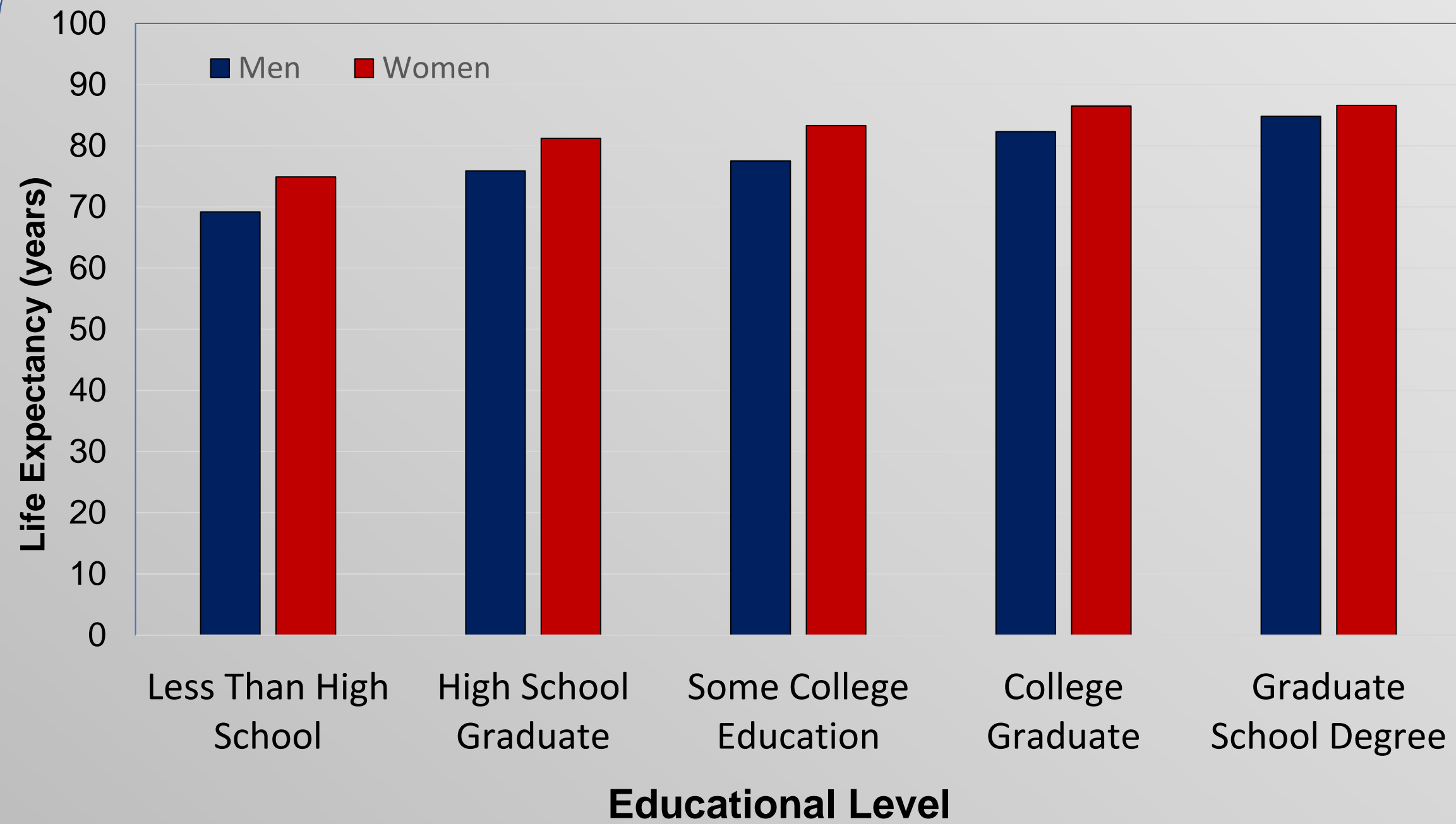


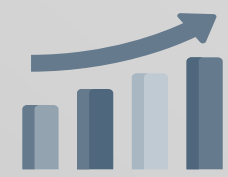
The Effect of Education, Location, and Income on Life Expectancy in the USA

Education

Educational Level vs. Life Expectancy

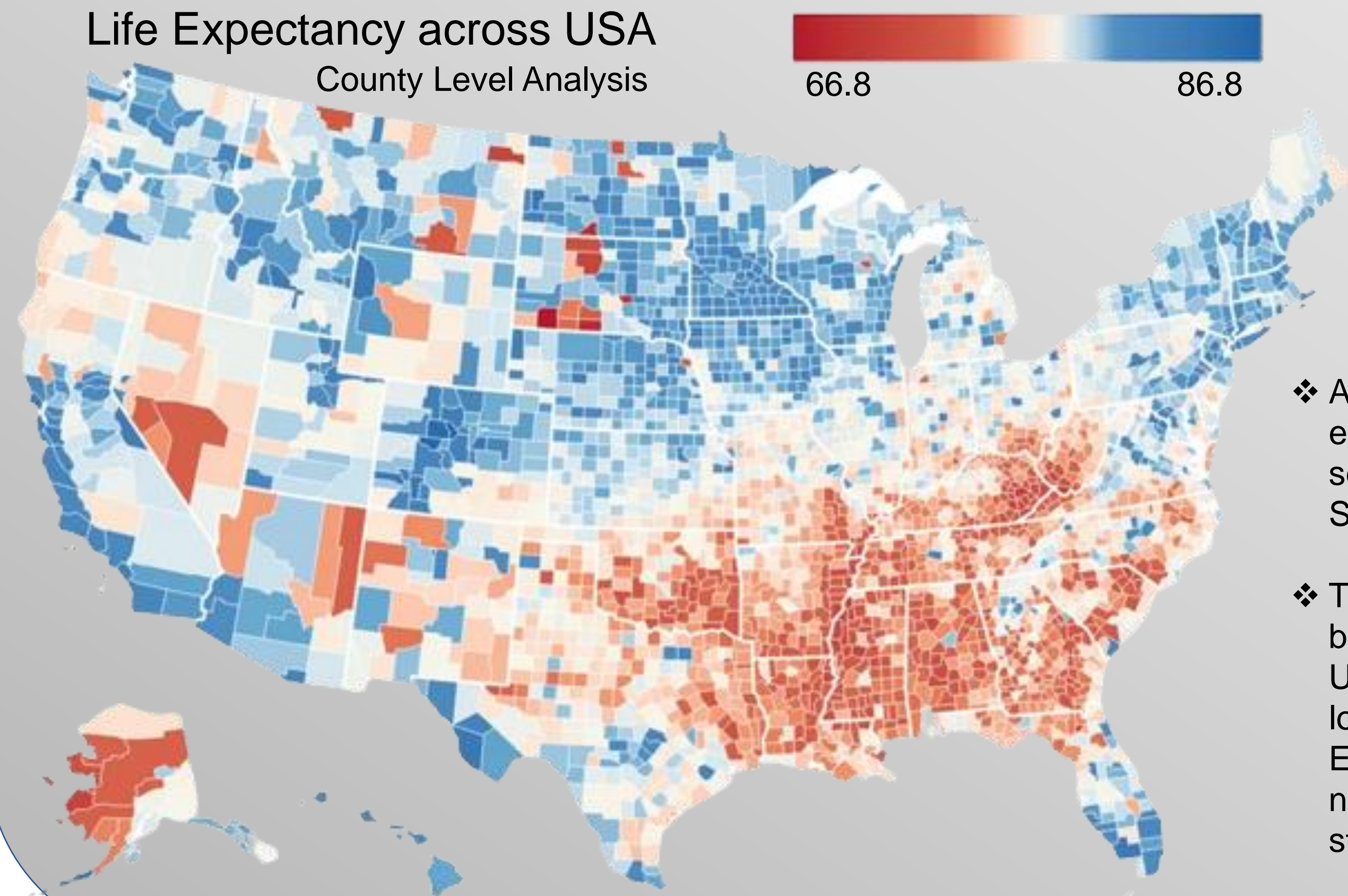


- ❖ Statistically life expectancy has a positive correlation with level of education.
- ❖ Finishing High School had the strongest impact – improving life expectancy by 6.5 ± 0.2 years.



Geographical Location

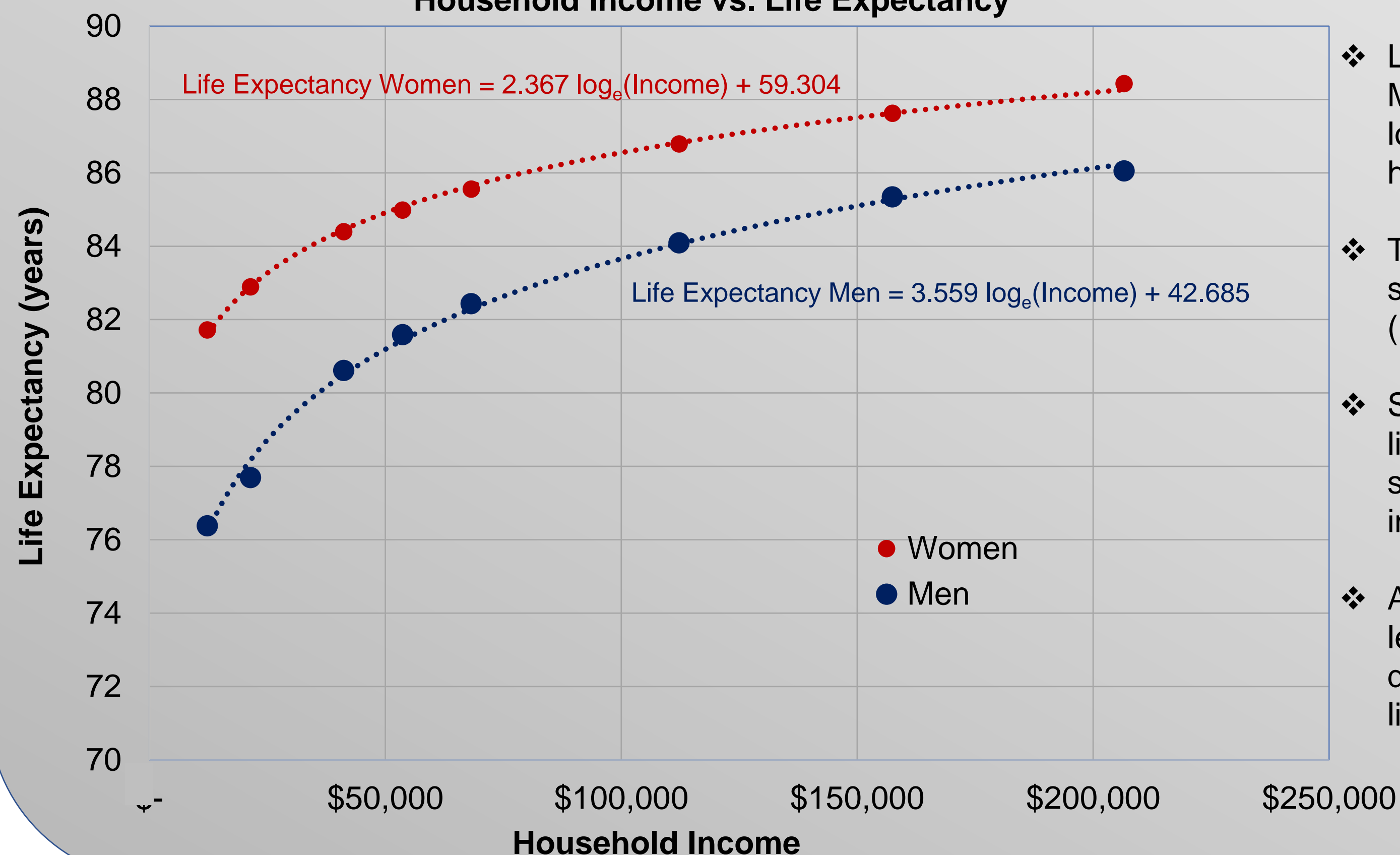
Life Expectancy across USA
County Level Analysis



- ❖ A shorter life expectancy is seen in Southeast USA.
- ❖ The correlation between Urban/Rural location and Life Expectancy is not particularly strong.

Income Level

Household Income vs. Life Expectancy



- ❖ Life Expectancy of both Men and Women has logarithmic correlation with household income level.
- ❖ The correlation is very strong for both genders ($R > 0.995$).
- ❖ Steeper curve for men's life expectancy suggests stronger dependency on income level.
- ❖ Additional income at lower levels has a disproportionate effect on life expectancy.



Statistical Question:

Does Education Level, Income Level, and Location positively correlate to the Life Expectancy across the U.S?

Conclusions and Future Work

- ❖ Women have a longer life expectancy compared to men.
- ❖ Education and Income have a strong positive correlation to the life expectancy for both genders.
- ❖ Geographical location in the USA does not have a strong correlation to life expectancy.
- ❖ Future work needs to focus on deconvoluting effects of these three variables.
- ❖ Other variables- such as smoking, obesity, access to healthcare, technology improvements, race, etc. also need to be considered.