Childcare Af

Scott Melli

Introduction

Inflation and Childcare Affordability

The impact of inflation on childcare costs

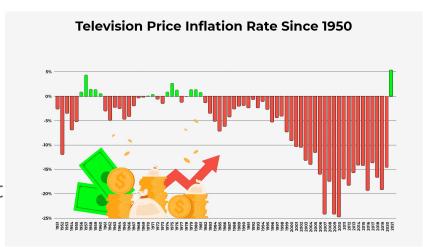
The focus on the relationship between childcare costs and median household income

Inflation and Childcare

Explanation of how inflation affects different

Example of TVs becoming cheaper

The suspicion that childcare costs are rising faster than incomes



My Experience

Personal experience with childcare costs

Mention of a 7% annual increase

General observation about income growth

Data Source

U.S. Department of Labor's Women's Bureau

https://www.dol.gov/agencies/wb/topics/featured-childcare

Excel document titled "National Database of Childcare Prices

Data Definition Part I

Childcare centers: typically located in commercial buildings and serve multiple groups or classrooms of similarly aged children.

Family childcare homes: typically for small groups of children in a residential building, such as a house, apartment, or condo unit.

MHI: Median household income.

TotalPop: Total population.

Households: Number of household.

Definitions: https://www.dol.gov/sites/dolgov/files/WB/media/NationalDatabaseofChildcarePricesTechnicalGuideFinal.pdf

Data Definition Part II

MCInfant: Aggregated weekly, full-time median price charged for Center-based Care for infants (i.e. aged 0 through 23 months).

MCToddler: Aggregated weekly, full-time median price charged for Center-based Care for toddlers (i.e. aged 24 through 35 months).

MCPreschool: Aggregated weekly, full-time median price charged for Center-based Care for preschoolers (i.e. aged 36 through 54 months).

MFCCInfant: Aggregated weekly, full-time median price charged for Family Childcare for infants (i.e. aged 0 through 23 months).

MFCCToddler: Aggregated weekly, full-time median price charged for Family Childcare for toddlers (i.e. aged 24 through 35 months)

MFCCPreschool: Aggregated weekly, full-time median price charged for Family Childcare for preschoolers (i.e. aged 36 through 54 months).

Data Wrangling

Obtained Data

Excel document consisting of 34,568 rows and 227 columns.

Only using 13 columns

Focusing on California due to missing data and relevance.

Selecting the Data

This are the columns we explored:

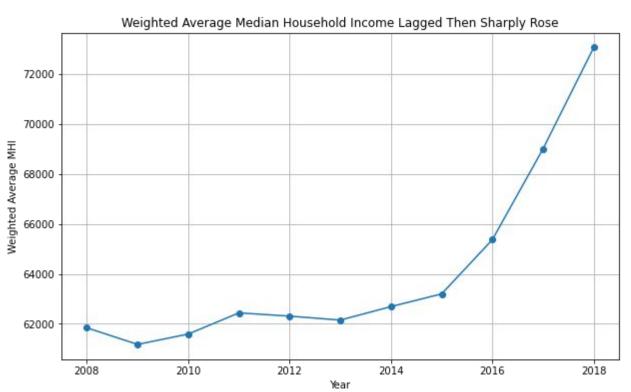
- County_Name
- StudyYear
- MHI
- MHI_2018
- TotalPop
- Households
- MCInfant
- MCToddler
- MCPreschool
- MFCCInfant
- MFCCToddler
- MFCCPreschool

Exploratory Data Analysis

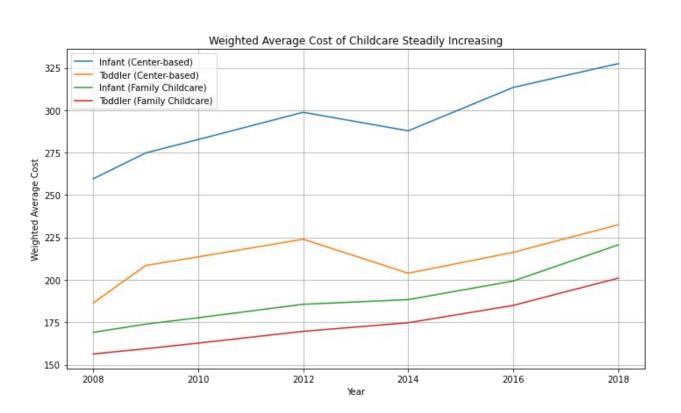
Overlapping Data & removing primary aged data.

Weighted population

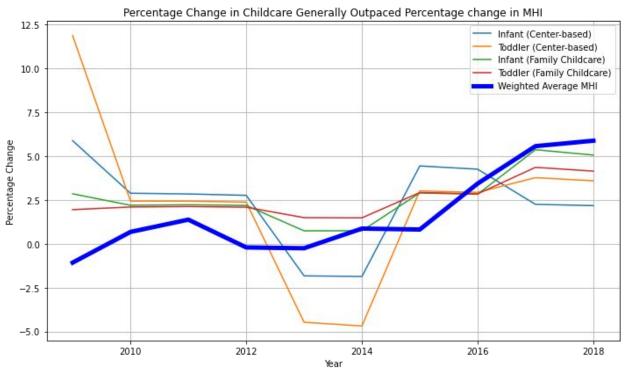
Wage Growth



Childcare Costs

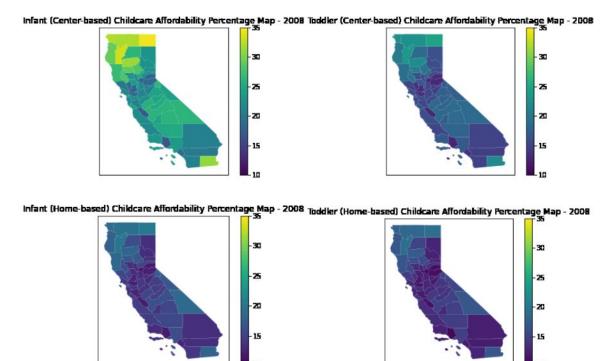


Salary vs. Childcare Costs



Out of the 10 years of change we looked at, 5 of them weighted average MHI had a lower percentage change, 3 of them somewhere in between, and only outpaced childcare price change 2 times.

Geographic Influence



More populous areas seem to be relatively cheaper than other areas.

Conclusion

In conclusion, our analysis reveals significant insights into the dynamics of childcare affordability and its relationship with Median Household Income (MHI)

Our analysis demonstrates that MHI and childcare costs are intertwined, but the relationship is far from straightforward