

Ideas for my Master Thesis

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Idea

Exploit the 2021 heatwave on the North American west coast

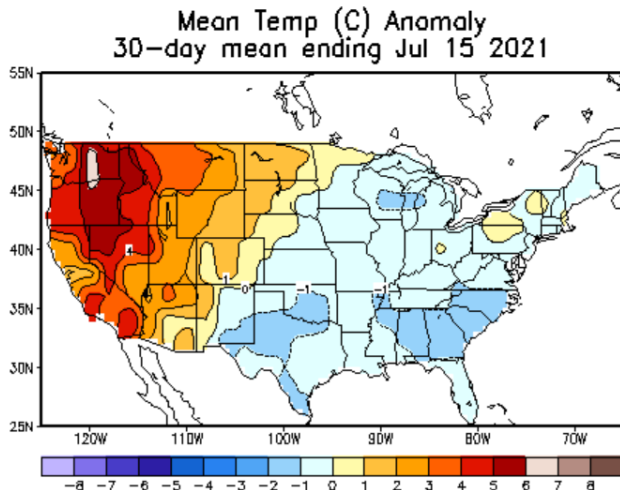


Figure 1: Temperature Anomalies in June/July 2021

Sick leave data

- ▶ Current Population Survey (CPS):
 - ▶ Available monthly (refers to the week including the 12th of that month)
 - ▶ So the effect (if there is one) should be visible in the July 2021 data
 - ▶ Includes state and county information, but county is often missing

Commuting data

- ▶ American Community Survey (ACS): Yearly survey including questions about commuting habits
- ▶ Longitudinal Employer-Household Dynamics (LEHD): Only yearly as well
- ▶ Maybe fuel consumption could be an alternative? That is available monthly from the EIA, but only for PADD regions

Crime Data

- ▶ Data of all recorded incidents (> 5 Mill.) in a given year is available [here](#) or [here](#):
 - ▶ Includes the exact date
 - ▶ Includes state and county numbers
 - ▶ 2021 is not yet available. But there was another big heatwave in 2016, which could work as well

Crime Identification



Figure 2: Causal effect of heat on crimes with some confounders X