

Projections and Public Policy – An Overview and Reflection on Nevada's Population Projections Presentation For REMI's Annual User Conference

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What I Will Be Covering

- You're Always Wrong
 - Maybe yes
 - Maybe no
- Nevada Migration, Employment and GDP
- REMI 2018 Work
- Messy Data

Parts of this presentation comes from a presentation on the accuracy of Nevada's Estimates Compared to the Census Bureau's Estimates



You're Always Wrong

- Nevada produces its own estimates and projections.
- Procedurally
 - Estimates are subject to long standing administrative code
 - Impacts revenue distribution
 - Competing jurisdictions
 - Subject to appeal
 - Projections are required by state statute but no administrative code



The current situation started with two estimates.

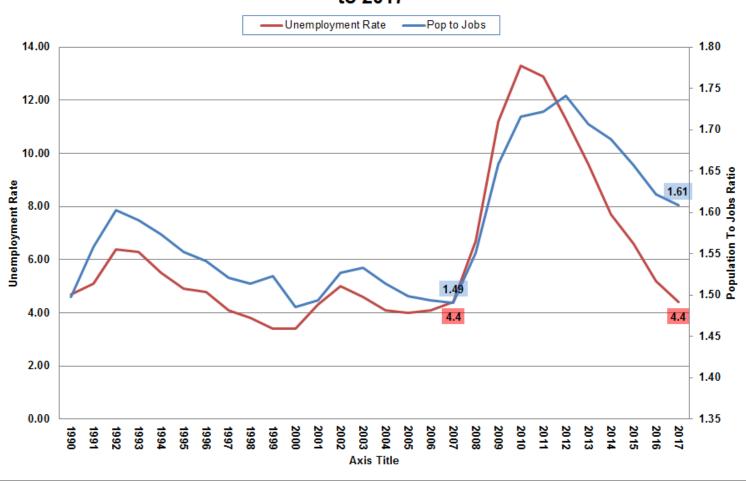
In 2015 to 2016, I estimated for the Reno-Carson City-Fernley CSA (Reno CSA):

- 1.) Job Growth as 13,159 or 3.7%
- 2.) Population Growth as 7,717 or 1.3%

That did not sit well with the Governor's Office of Economic Development. They expected more population growth given the growth in jobs. This was their initial premise.



Comparison of Jobs to Population Ratio and July Unemployment Rate for Reno-Carson City-Fernley CSA 1990 to 2017

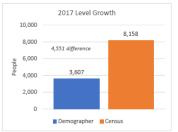


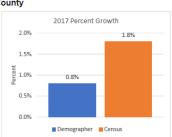


Then Came Out the Census Estimates Spring 2018

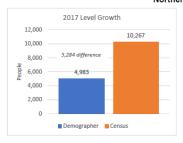
Governor's Office of Economic Development Charts Comparing Estimates

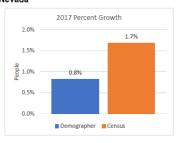
Washoe County



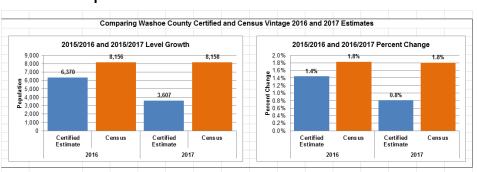


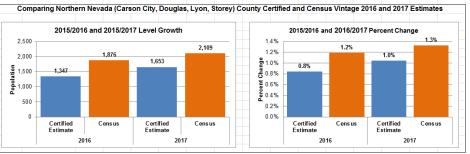
Northern Nevada





Nevada State Demographer Comparison

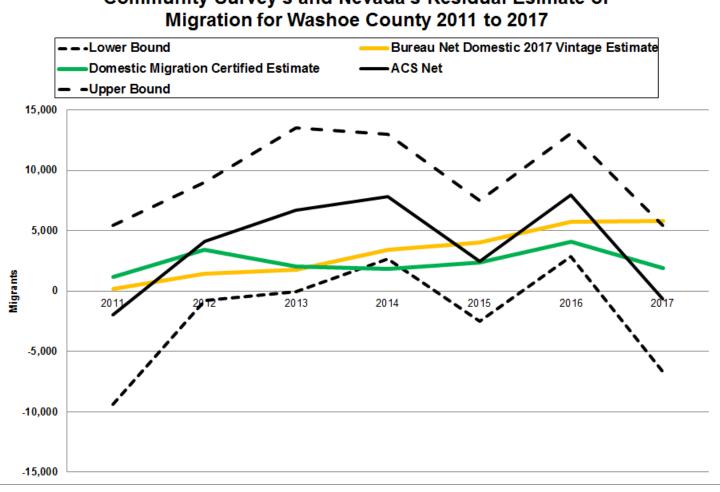




- The biggest concern was migration
- There are three estimates of migration
 - The Census Bureau's population estimates which is based on a rate derived from IRS data
 - The Census Bureau's American Community Survey with produces estimates with a margin of error
 - A residual from Nevada's population estimate

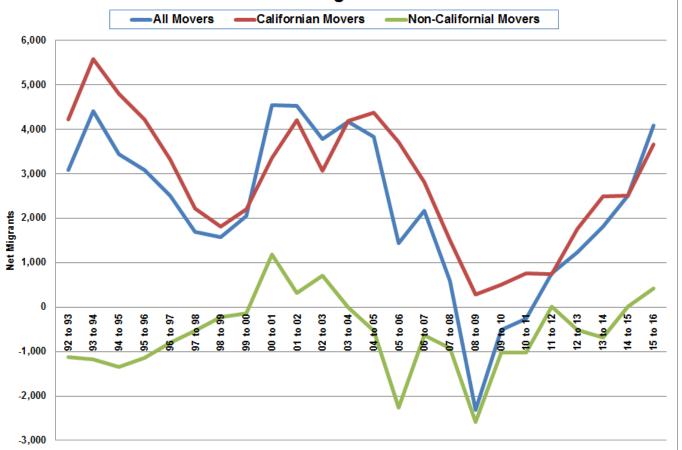


Comparing Census Bureau Populatioin Estimate's, American Community Survey's and Nevada's Residual Esimate of Migration for Washoe County 2011 to 2017



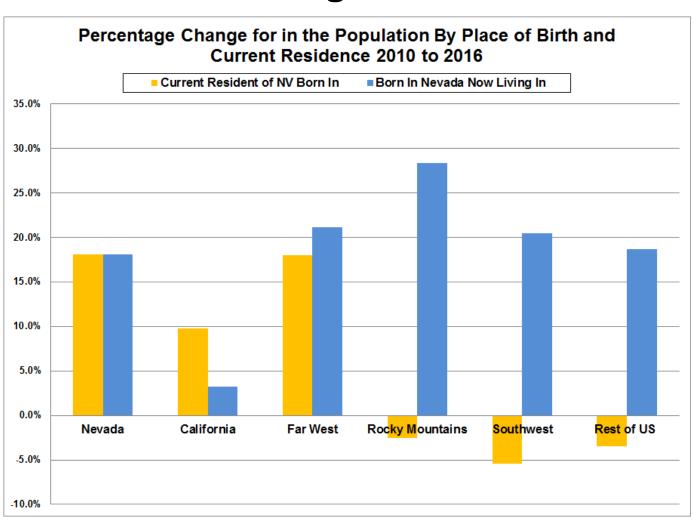




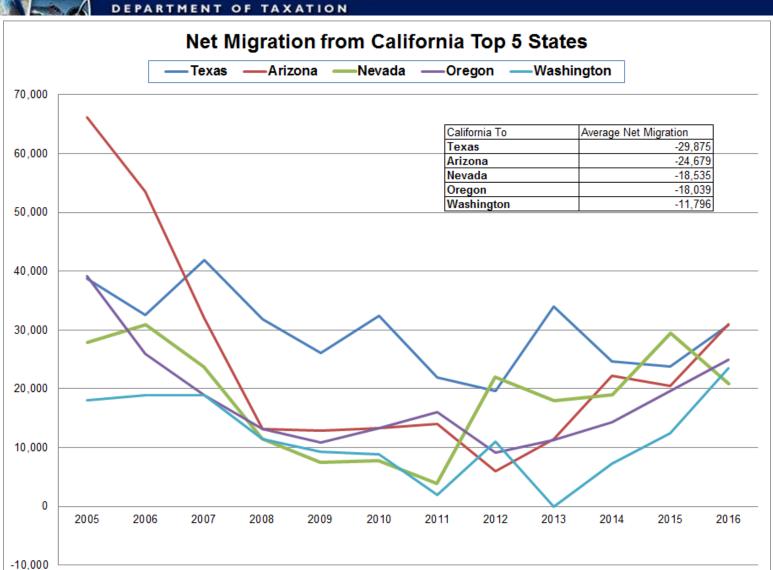




Nevada Migration and GDP

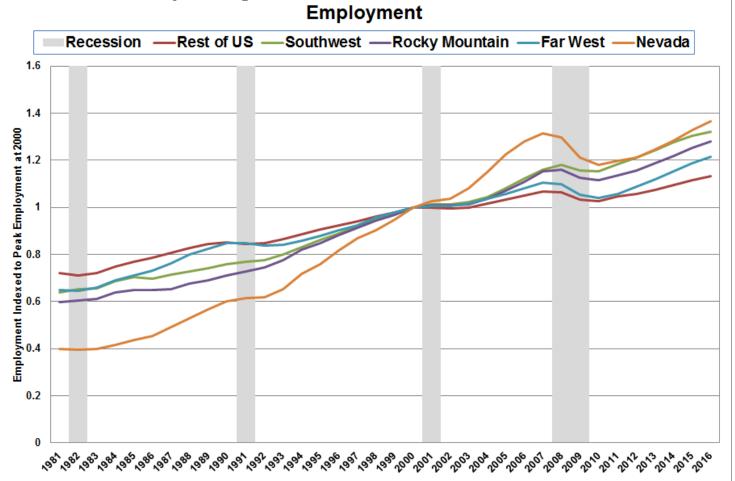






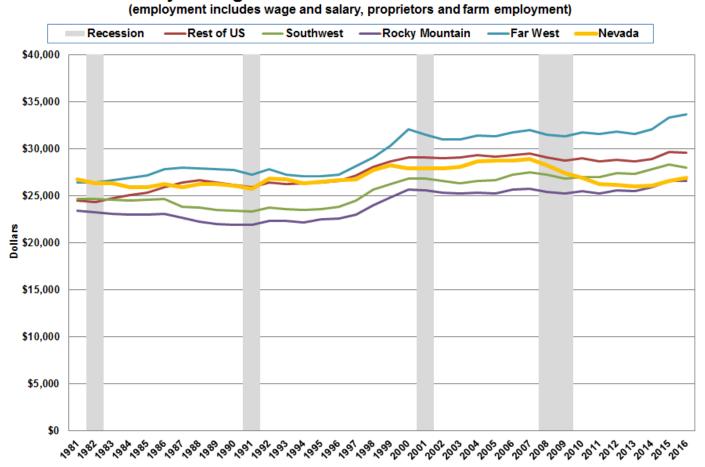


Change in Employment for Nevada and Bureau of Economic Analysis Regions For 1980 to 2016 Indexed to 2000 Employment



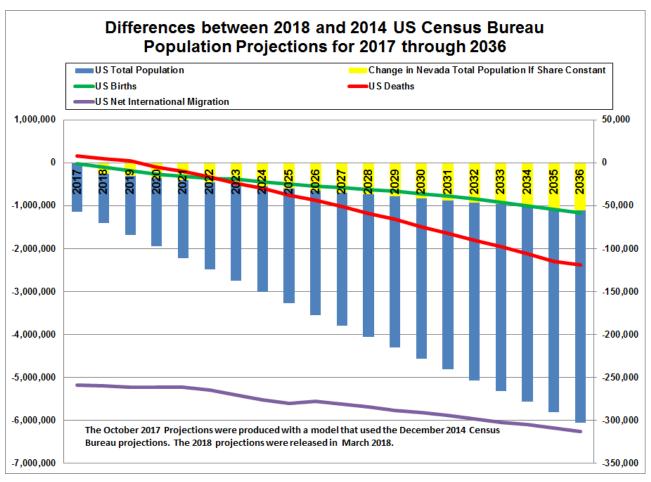


Average Annual Wages for Nevada and Bureau of Economic Analysis Regions For 1980 to 2016 in 2000 Dollars



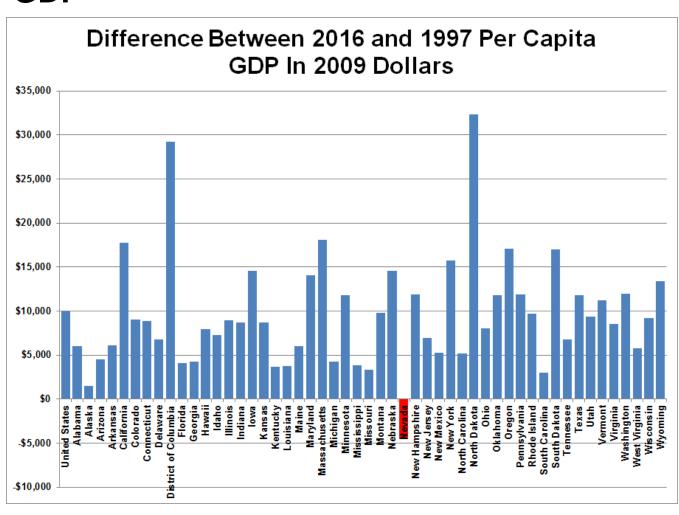


Looking toward the 2018 20 Year Projections, the Census Bureau has issued a new set of national projections. This could impact Nevada projections depending on how and when they are incorporated into the REMI Model.





Nevada is the only state to have lost per capita GDP



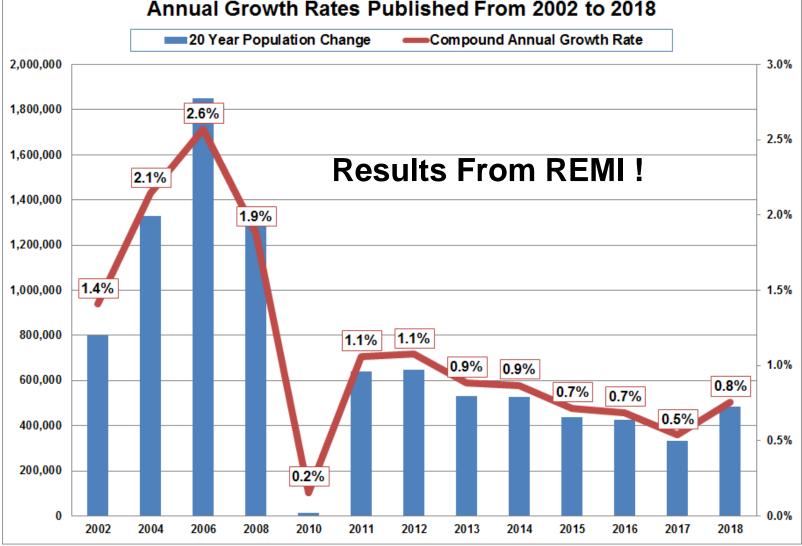


If you made it this far - You're probably asking at this point, "Why Am I Still Listening To This?"



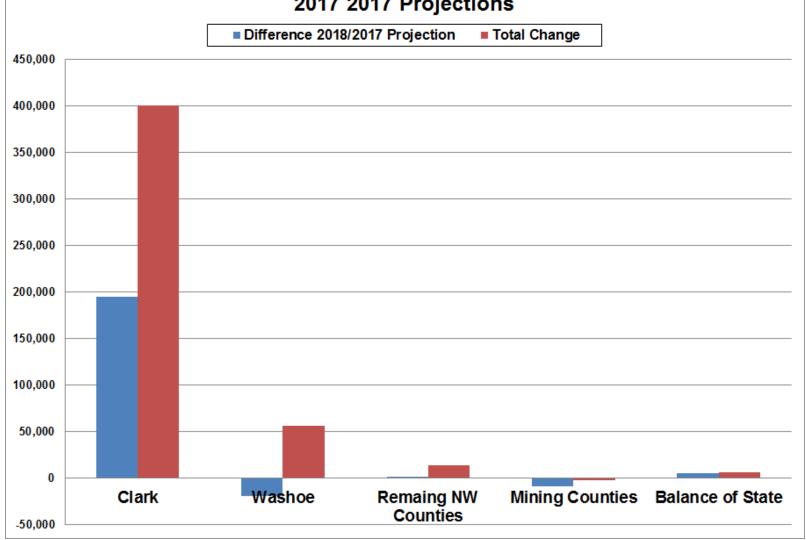


20 Year Population Projections for Nevada and Compound Annual Growth Rates Published From 2002 to 2018











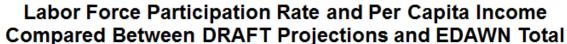
You're Always Wrong Part 2

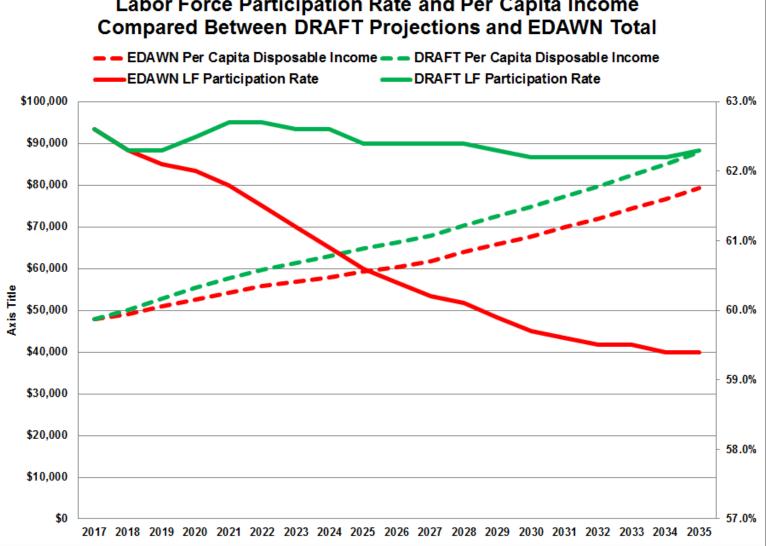
- DRAFT Projection For Washoe County in 2035 is 507,985
- DRAFT For CSA is 682,692

If I weren't wrong it would be 620,000 for Washoe County!

Did scenario based on population alone – I had to increase economic migration by 12,500 a year to get there.









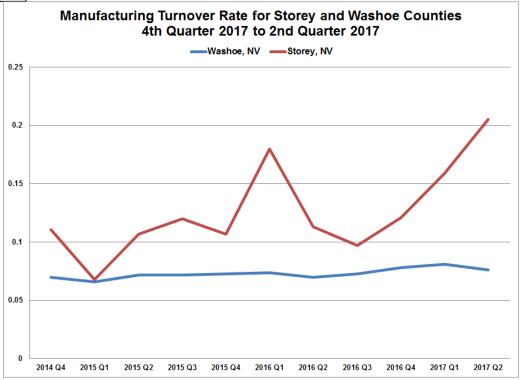
Messy Data - Public Policy Not Just Nevada

- Public data is messy
 - Subject to revisions
 - Not well understood with ACS
 - Privacy guidelines
 - Funding constraints
- Often responding to aspirations and/or aspirational statements
- Non-traditional data sources
 - Gee Whiz Factor
 - Not well understood
 - Proprietary
 - Promoting services



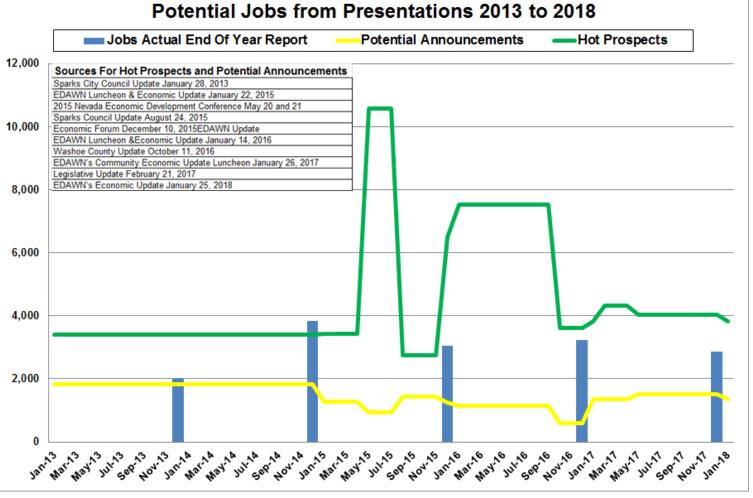
Messy Data Traditional Data Sources

	2014	2017
	Nov	Dec
QCEW Manufacturing	709	6,030
Tesla From Audit		3,249
Other Incentivized Employment		302
Total		3,551
Difference from QCEW		2,479





EDAWN Actual Jobs (End of Year Report @edawn.org/newsevents/media-center/ Compared to Hot Prospects and Potential Jobs from Presentations 2013 to 2018

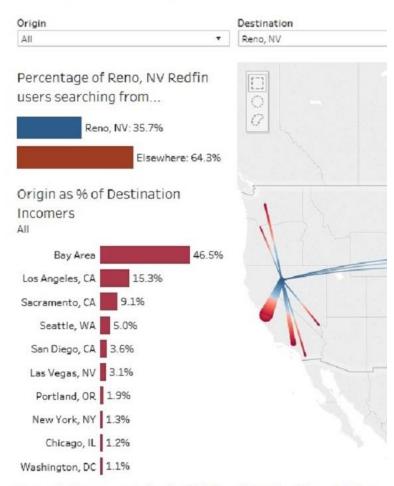


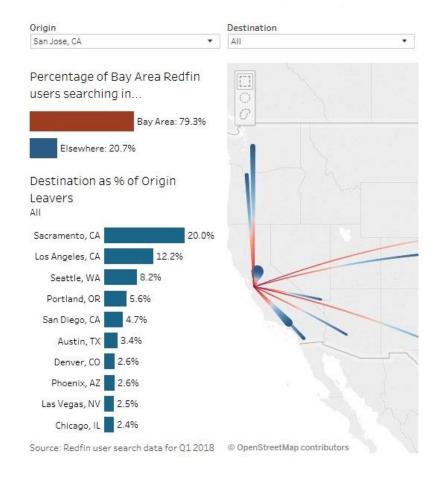


Messy Data New Data Sources

REDFIN

Denver Joins Seattle and San Francisco as a Tech Hub with More Peop







Questions?

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