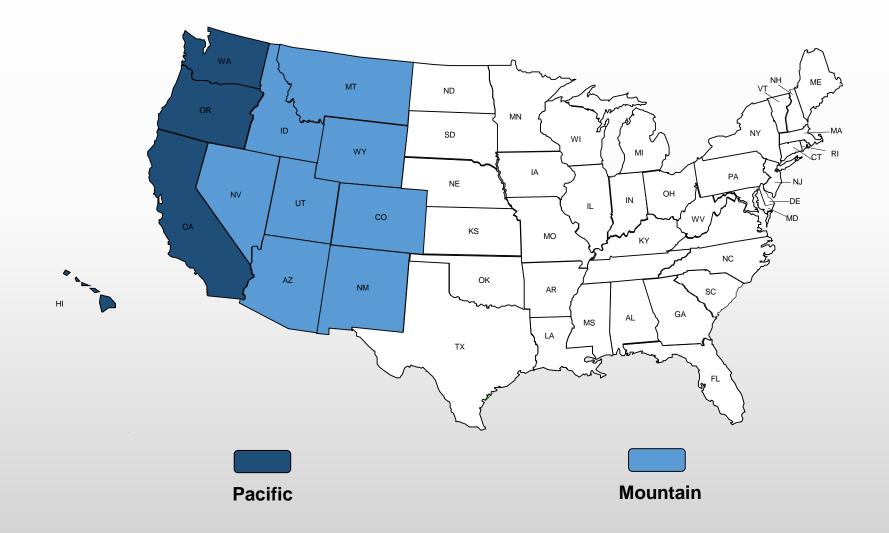
B B Since 1916 America's Cement Manufacturers™

Coronavirus Regional Briefing: Western U.S.

Brian Schmidt, Regional Economist July 2020



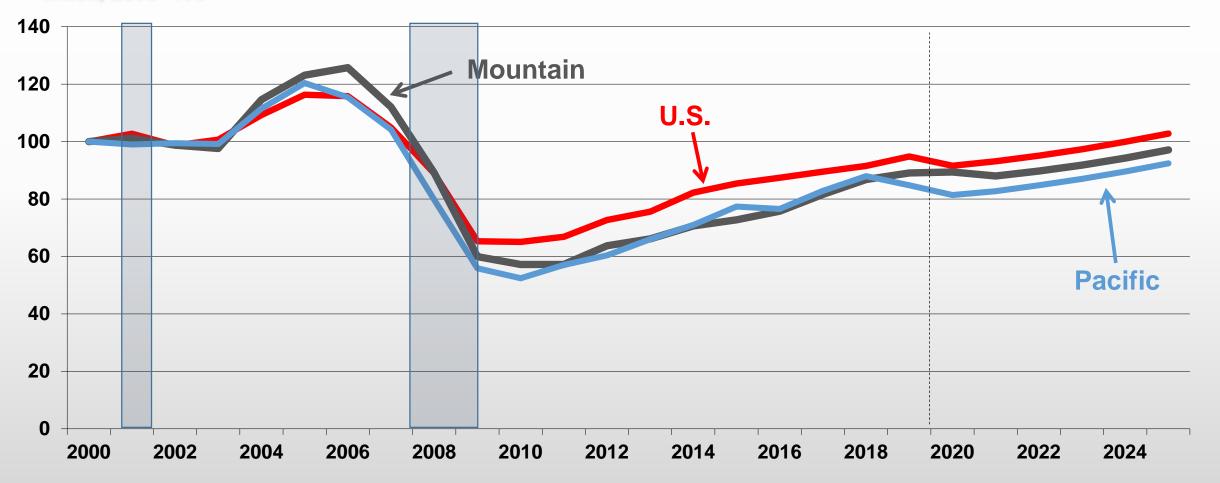
Regional Focus





Total Cement Consumption

Index, 2000=100

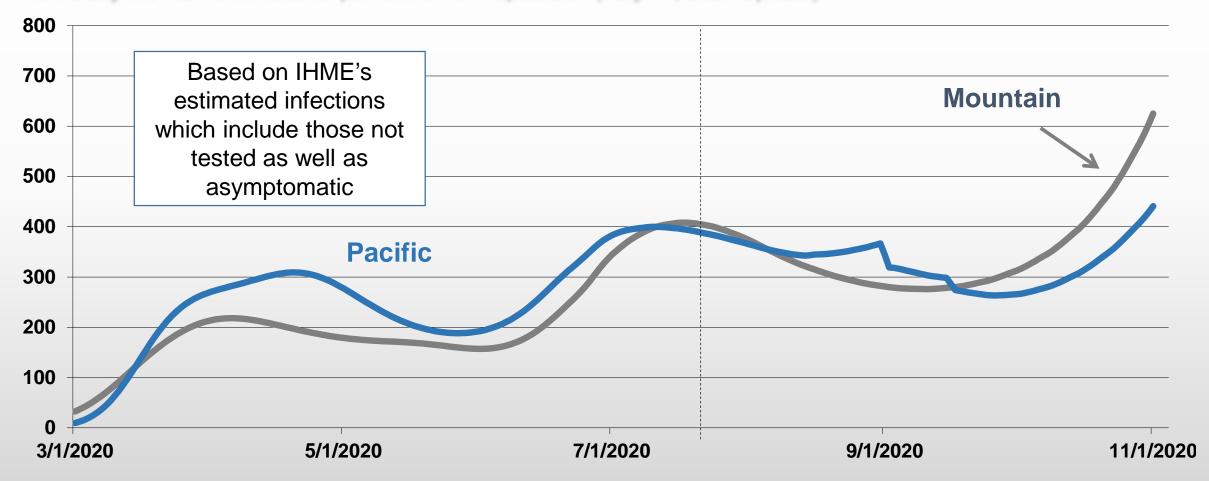


Source: USGS, PCA



IHME Projected Daily Infection Rates --Per Capita

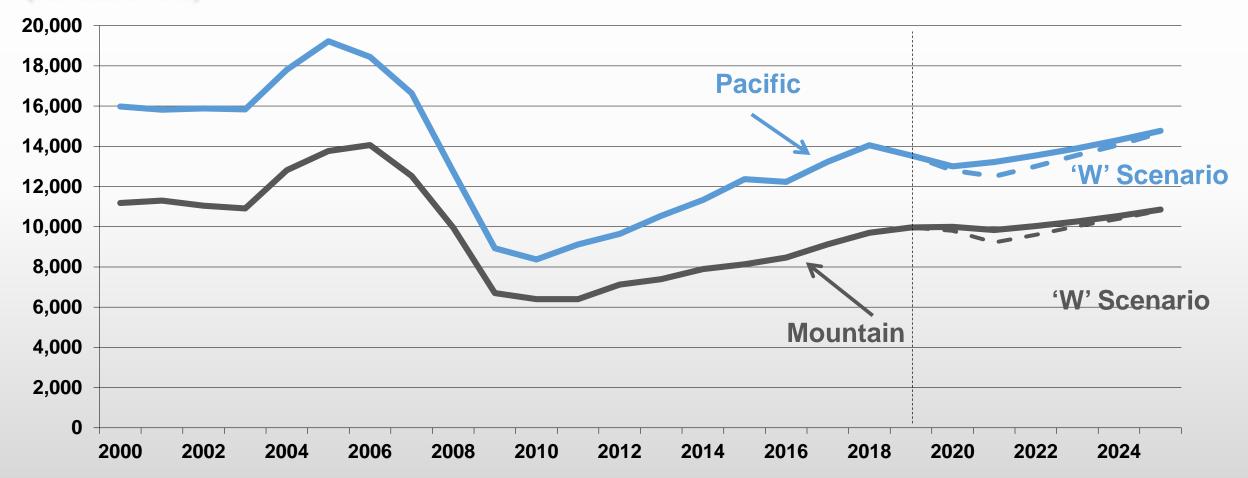
New Daily COVID-19 Infections per Million of Population (July 14, 2020 Update)





Total Cement Consumption – Western U.S.

(000 Metric Tons)



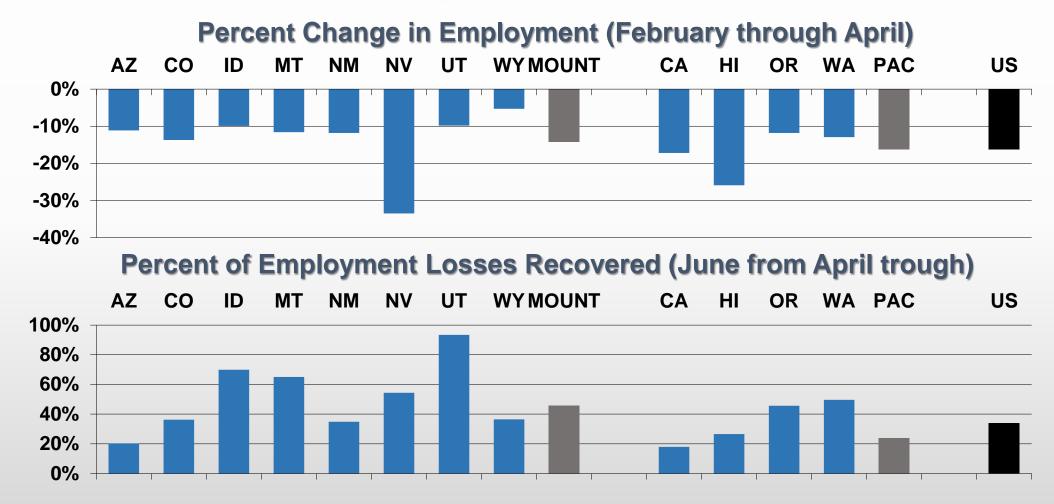
Source: USGS, PCA



Economic Outlook



Employment Recovery

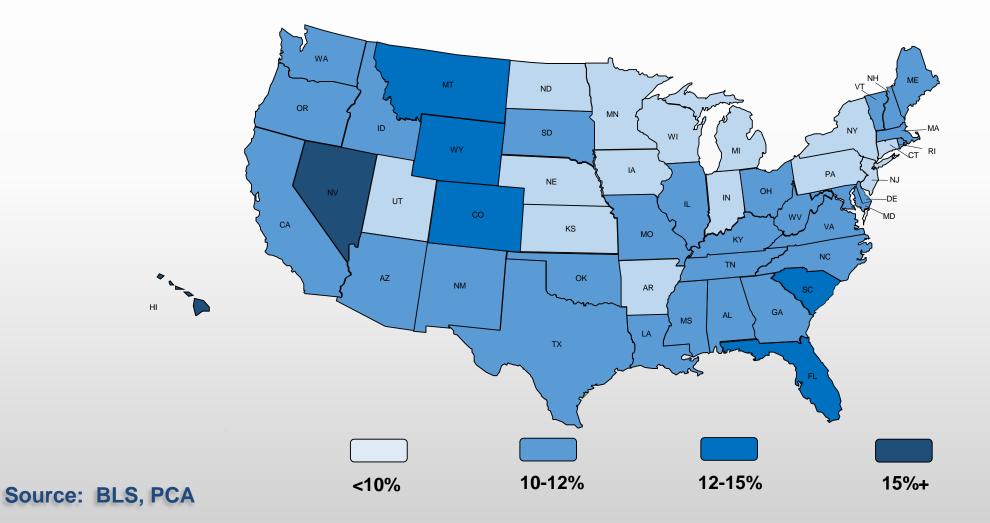


Source: BLS, PCA



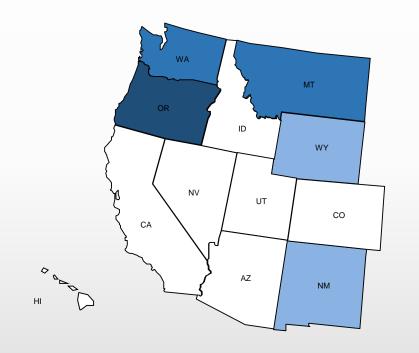
Leisure and Hospitality Exposure

Share of Total Nonfarm Employment





Oil, Agriculture, and Manufacturing Exposure



- As a whole, the region's economy is generally diverse
- Not very reliant on energy, agriculture, or manufacturing
- Oil exposure in New Mexico and Wyoming (and to a lesser degree Colorado) represent an area of concern





Construction Non-Exempt Impact



- An adverse wrinkle experienced in some markets due to construction not being considered exempt from stay at home orders
- Entire state of Washington as well as parts of California, mainly the Bay area
- Very depressed volumes in April for these areas

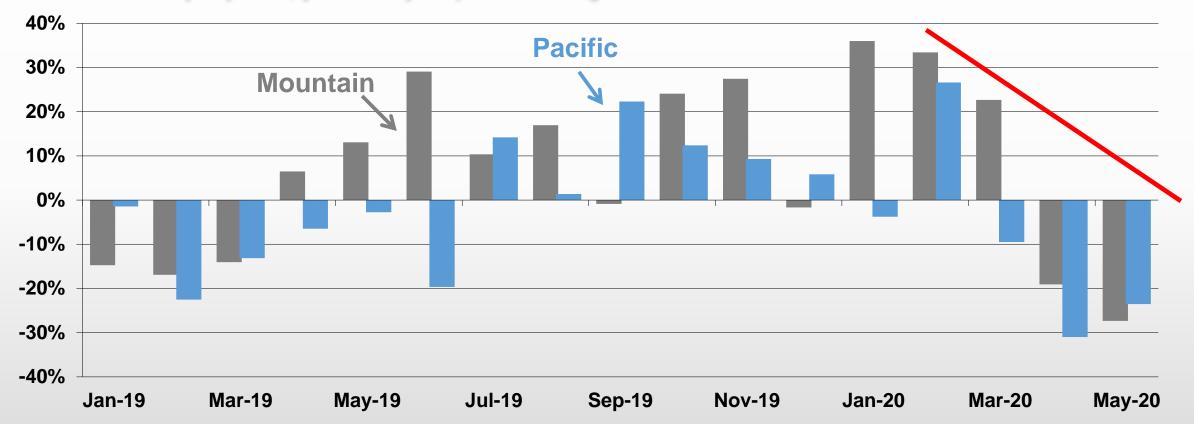


Residential Outlook



Housing Permits – Western U.S.

Seasonally adjusted, year-over-year percent change.

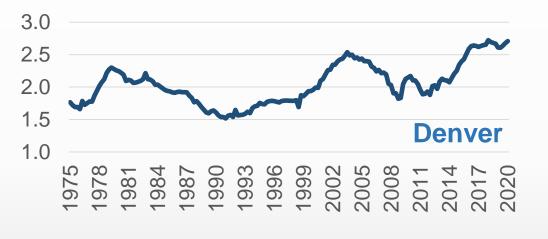


Source: PCA

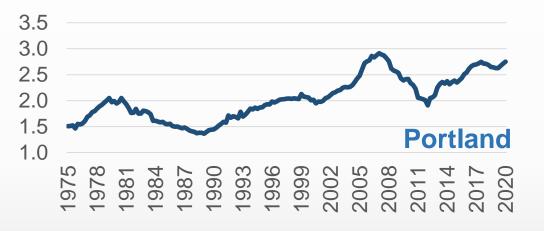


Home Affordability Concerns

Home Price-to-Household Income, SA





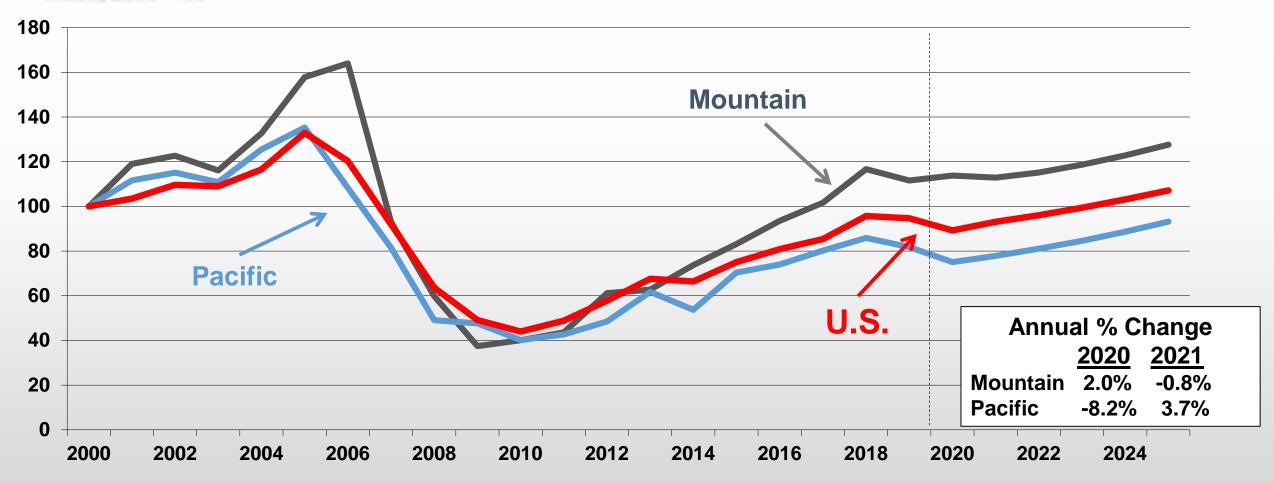






Residential Cement Consumption – Western U.S.

Index, 2000=100

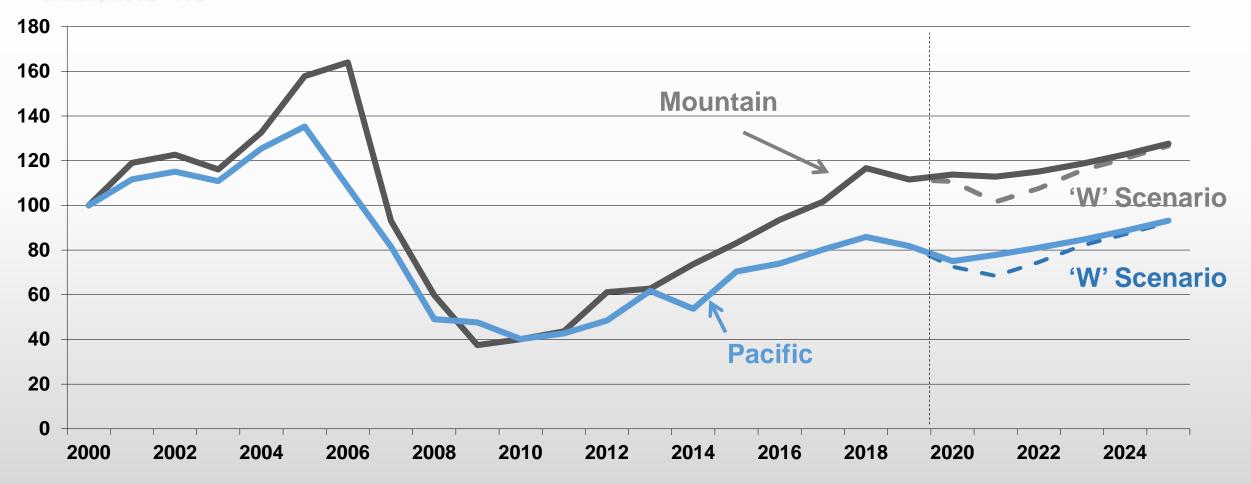


Source: USGS, PCA



Residential Cement Consumption – Western U.S.

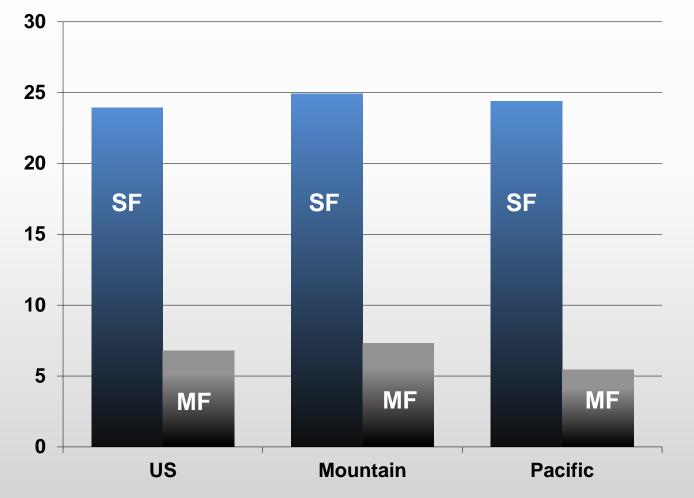
Index, 2000=100



Source: USGS, PCA

Potential Shift in Homebuyer Preferences?

Metric Tons of Cement Per Housing Unit



- 21% of agents reported buyers seeking the benefits of new homes, such as office space or backyards. (Source: NAR Research Group Survey)
- Potential for intrastate moves from urban to suburban/exurban locations.
- A 10% compositional shift from multi to single family would amount to roughly 60k MTs annually in Mountain and 115k MTs in the Pacific.

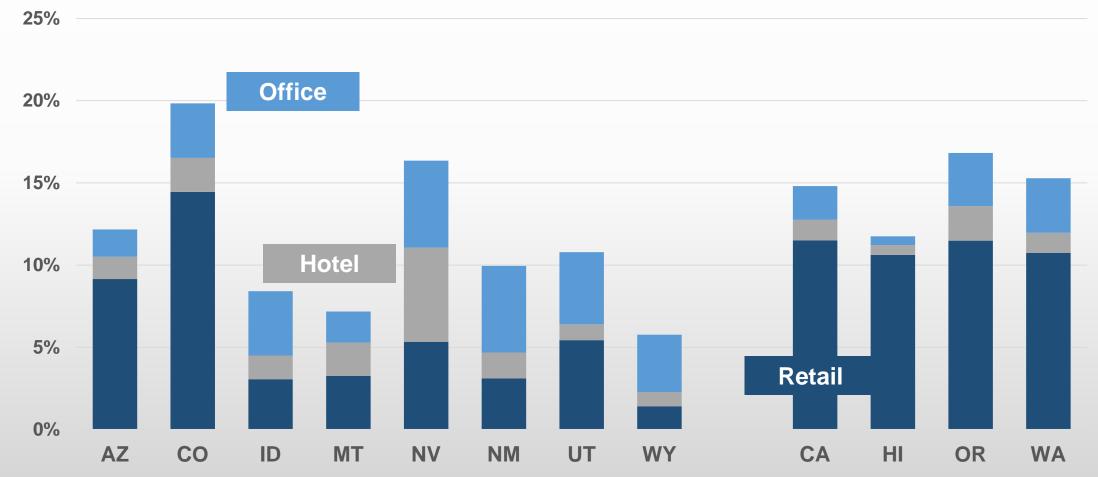


Nonresidential Outlook



Office, Hotel, and Retail Importance

Percent Share of Total Cement



Source: PCA

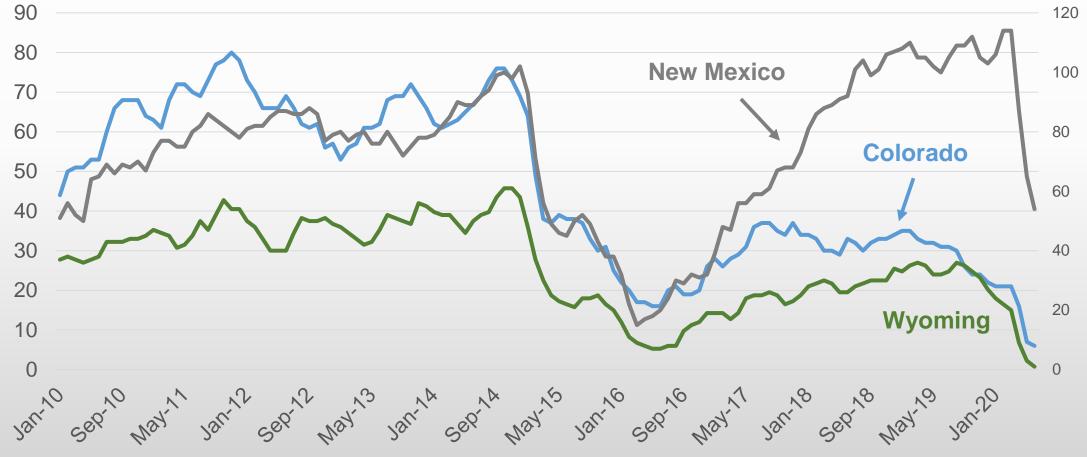


Oil & Gas Drilling a Concern in Some States





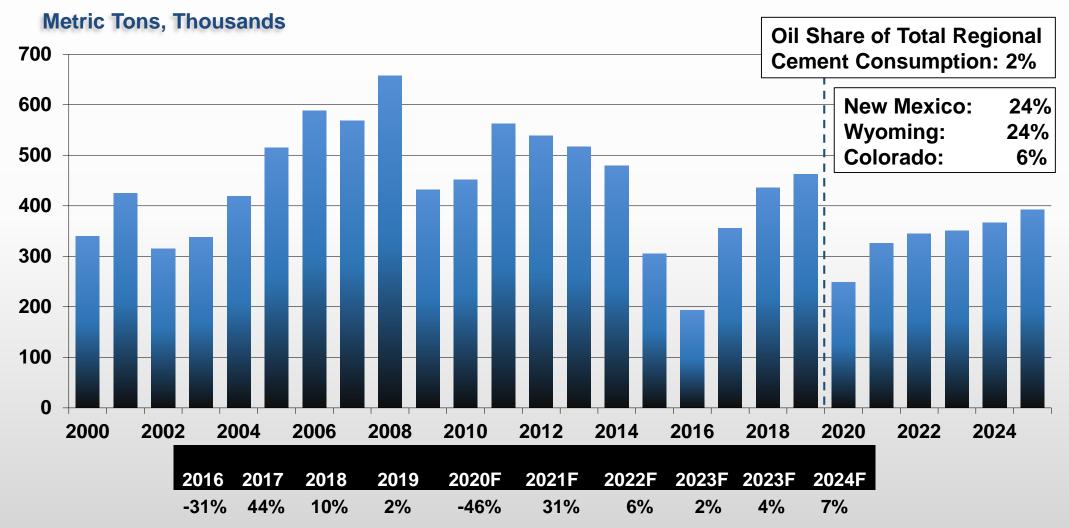
	Percent Change Since February:	
	New Mexico	-53%
Oil & Gas Drilling a Concern for Some States	Colorado	-71%
	Wyoming	-95%
Average Active Rotary Rigs - Total, (#)	U.S.	-65%



Source: Baker Hughes Incorporated



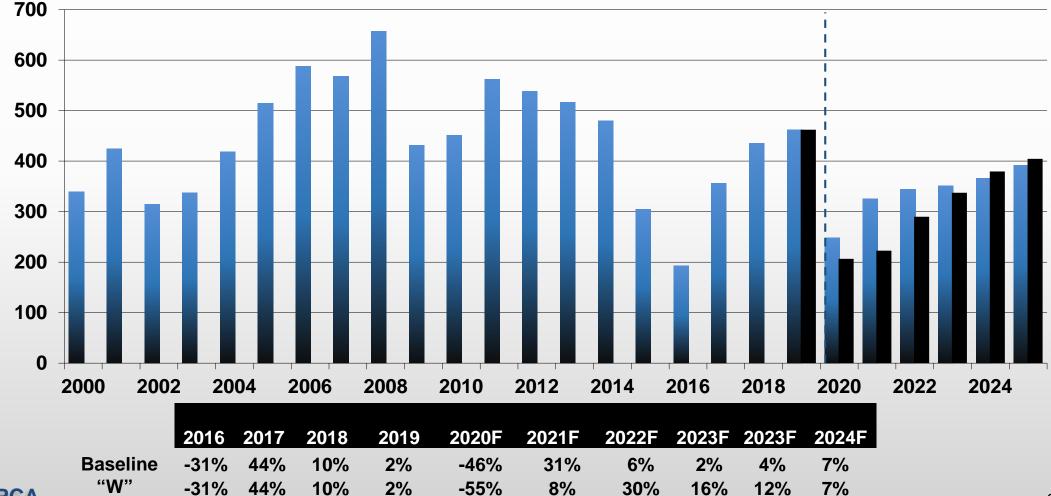
Oil Well Cement Consumption – Western U.S.



Source: PCA

Oil Well Cement Consumption – Western U.S.

Metric Tons, Thousands

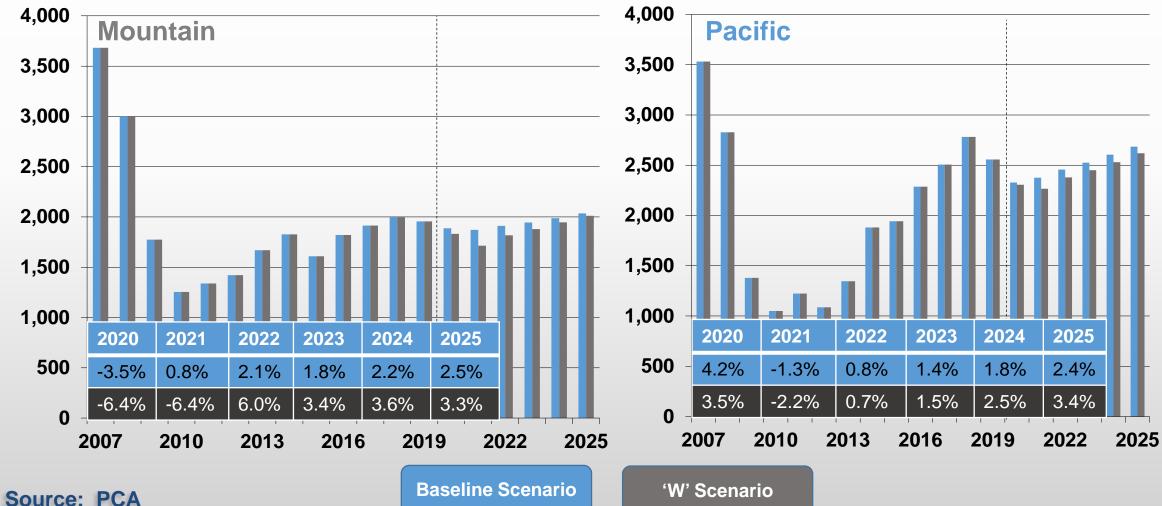


Source: PCA



Nonresidential Cement Consumption – Central U.S.

Metric Tons (000s)



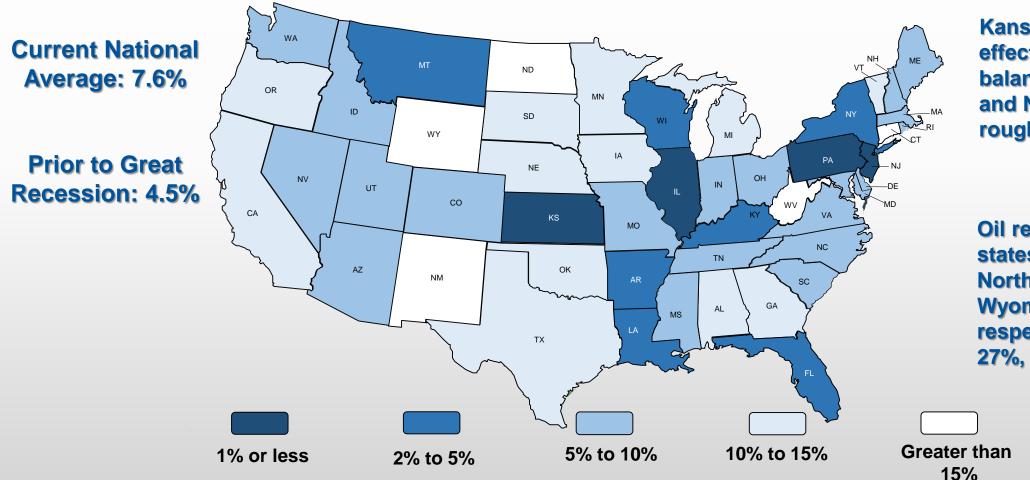


Public Outlook



State Rainy Day Funding – FY2020

Rainy day balances as share of general fund expenditures



Kansas and Illinois effectively have \$0 balances, Pennsylvania and New Jersey are roughly 1%

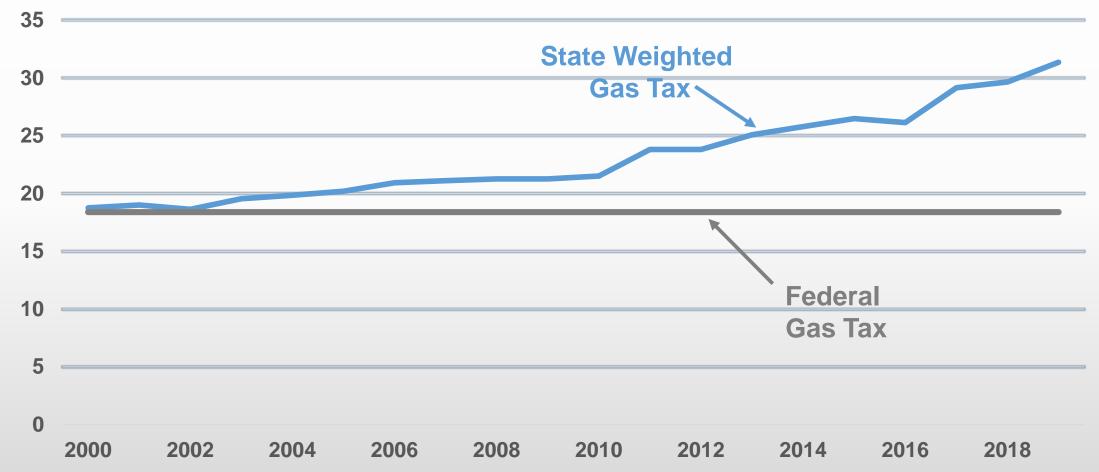
Oil revenue reliant states of New Mexico, North Dakota and Wyoming have respective balances of 27%, 30% and 109%

Source: NASBO Fall 2019 Fiscal Survey of the States



States Have Been Increasingly Less Reliant on Federal Funds

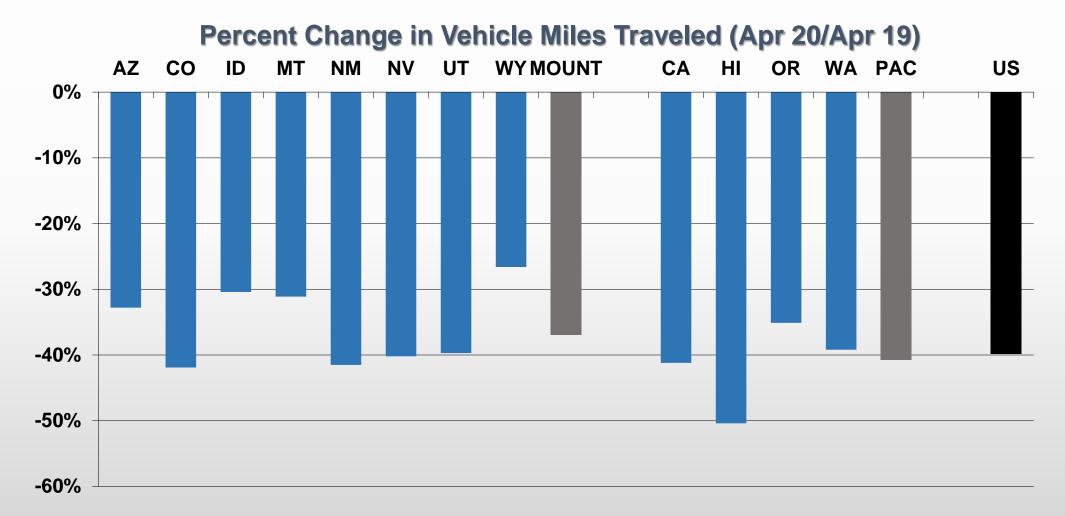
Cents Per Gallon



Source: Federal Tax Administrators, FHWA, PCA



Reduction in Vehicle Miles Traveled

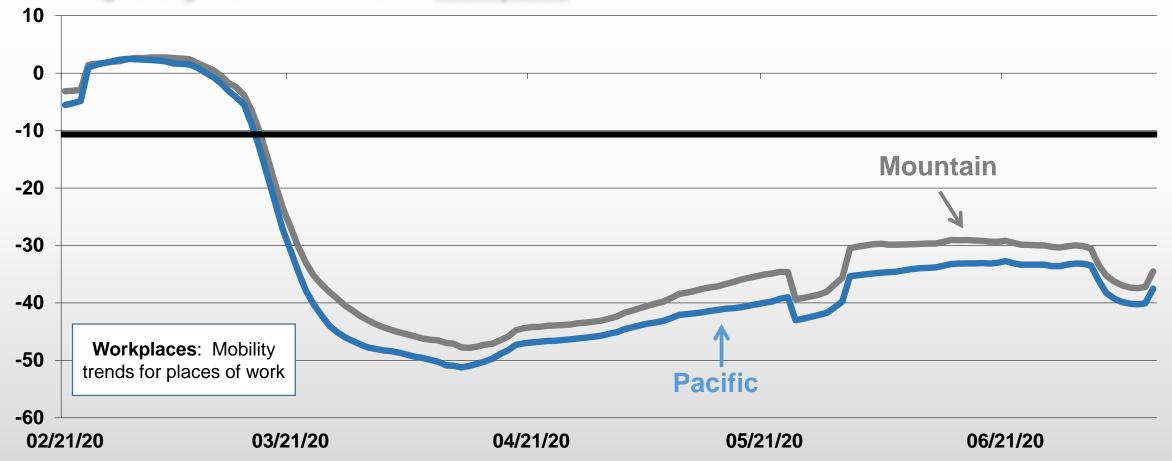


Source: FHWA, PCA



Employees returning to Work...

Percentage change from baseline visits—Workplace

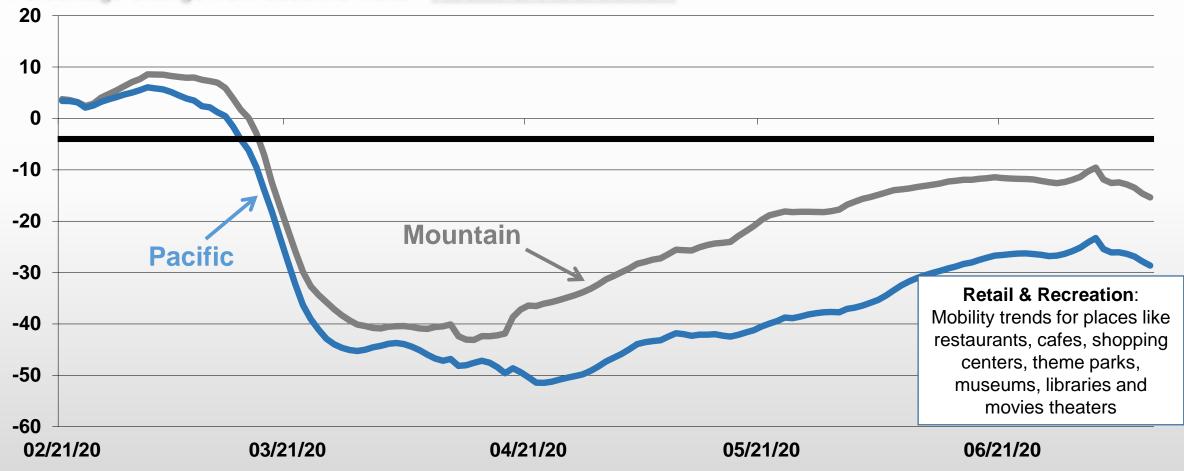


Source: Google Mobility Report, PCA



Consumers Once Again Showing Apprehension

Percentage change from baseline visits—Retail & Recreation

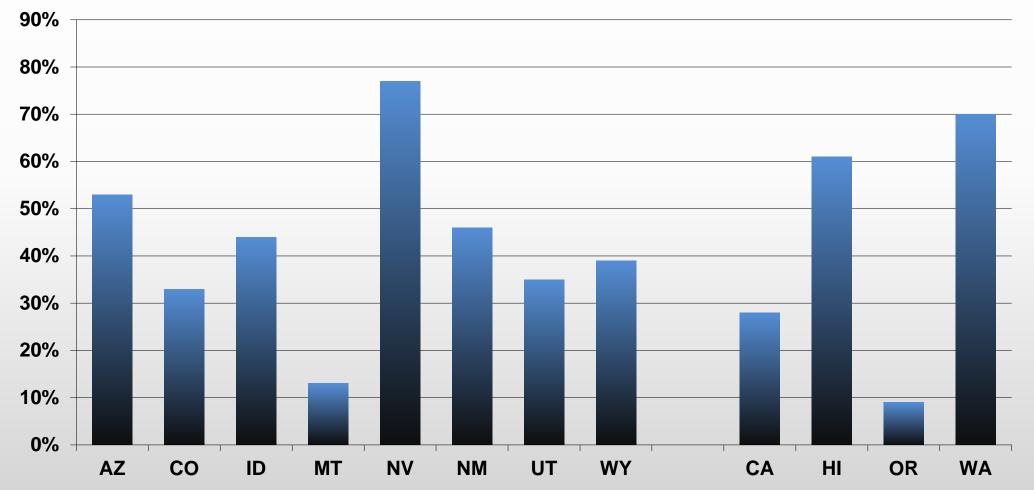


Source: Google Mobility Report, PCA



States with High Sales Tax Exposure at Risk

Sales tax as a share of total tax collections

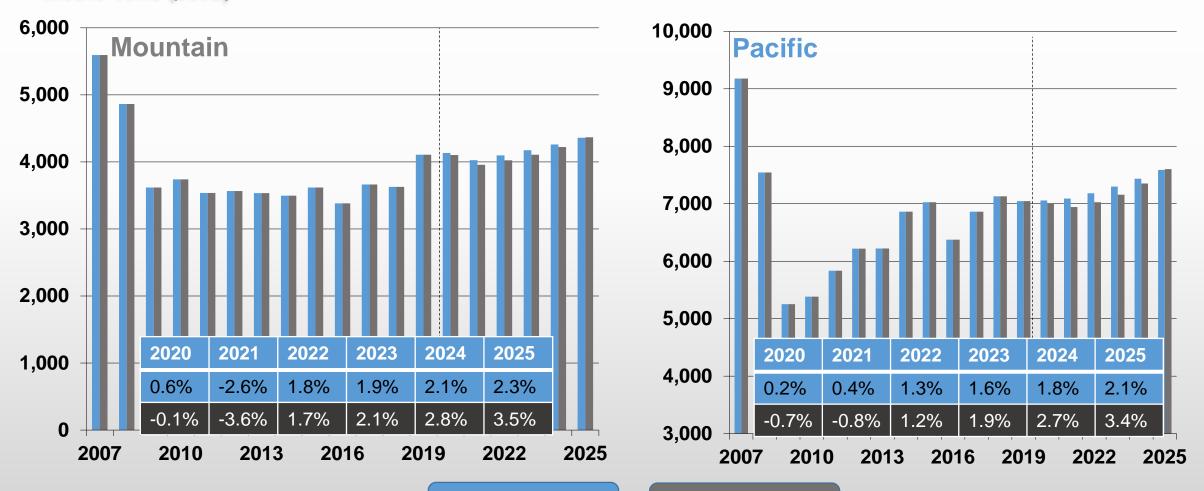


Source: Census State Government Tax Collections Report, PCA



Public Cement Consumption – Western U.S.

Metric Tons (000s)

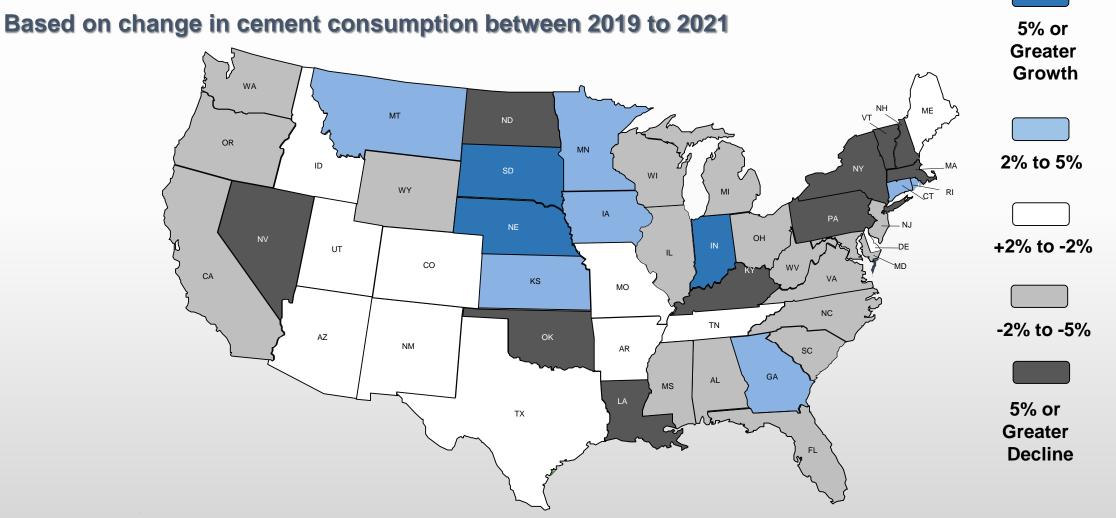


Baseline Scenario

'W' Scenario



Regional Cement Trends: Through 2021



Source: PCA 2020 Summer State Forecast

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