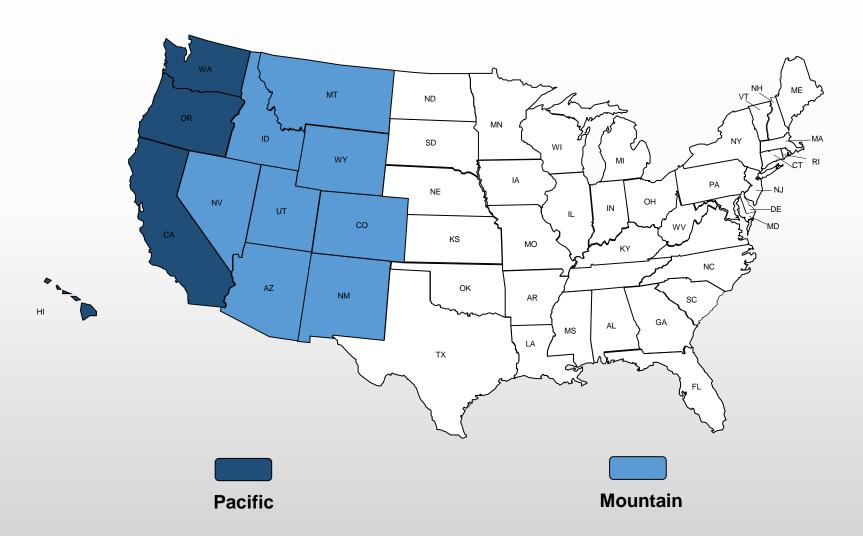




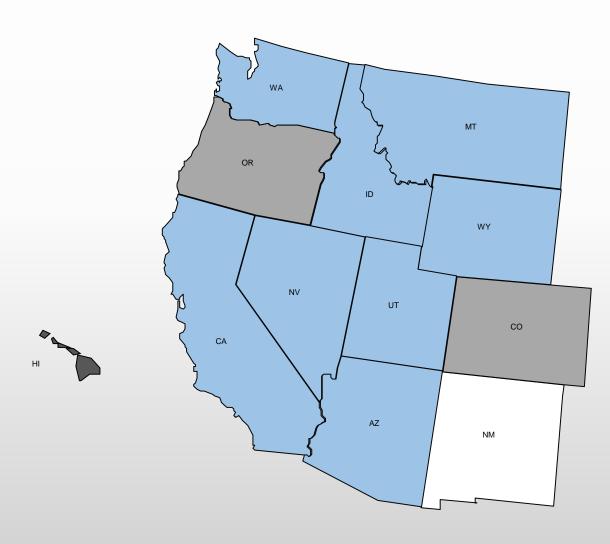
# **Regional Focus**







# **2021 Cement Consumption Performance**









-2% to -

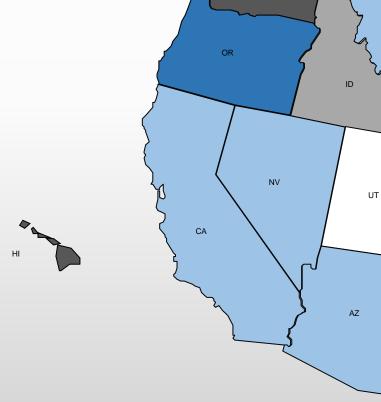
11% or Greater Decline





## 2022 Year-to-Date Cement Consumption Performance

Through March









-2% to -

11% or Greater Decline



CO

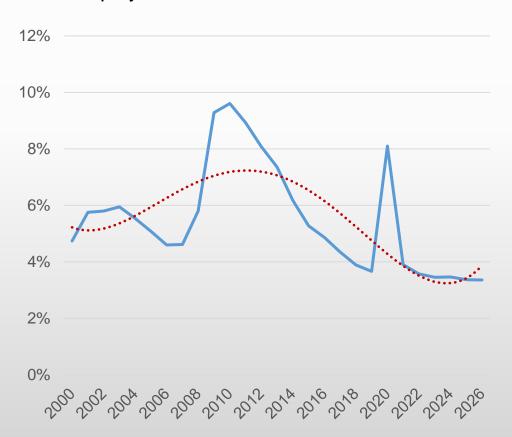
NM



## Strength in Labor Markets Low Household Debt

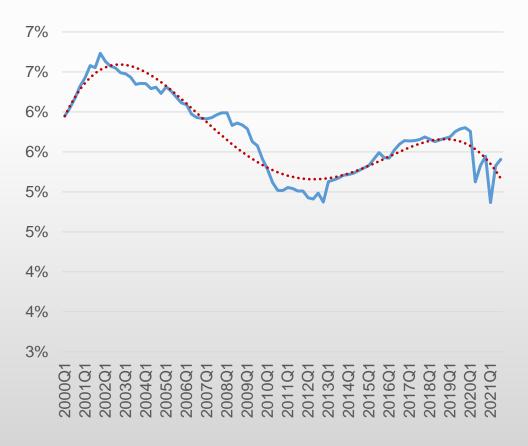
#### **Labor Markets Are Strong**

% Unemployed



#### **Household Debt Service Ratio**

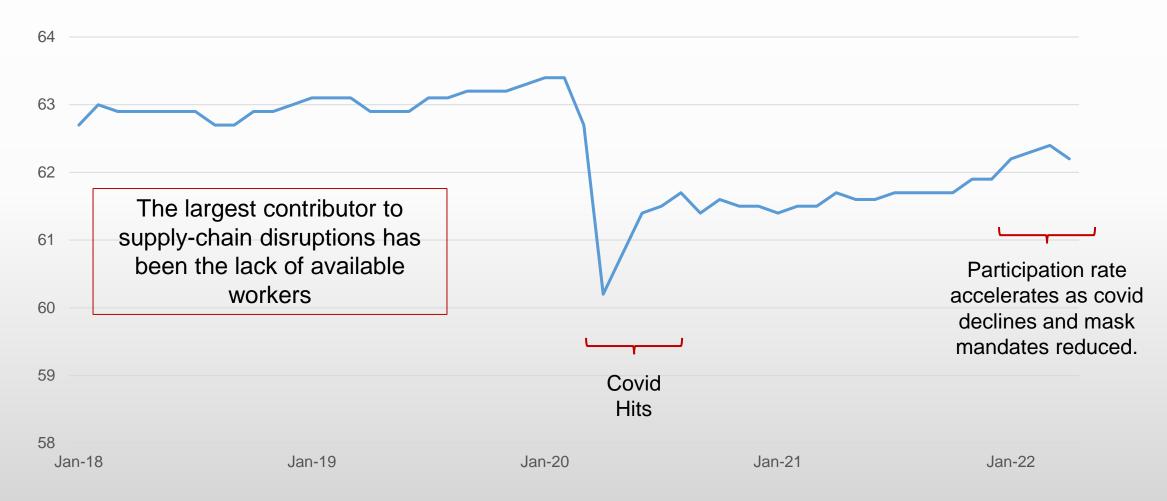
Deby as % of Disposable Income







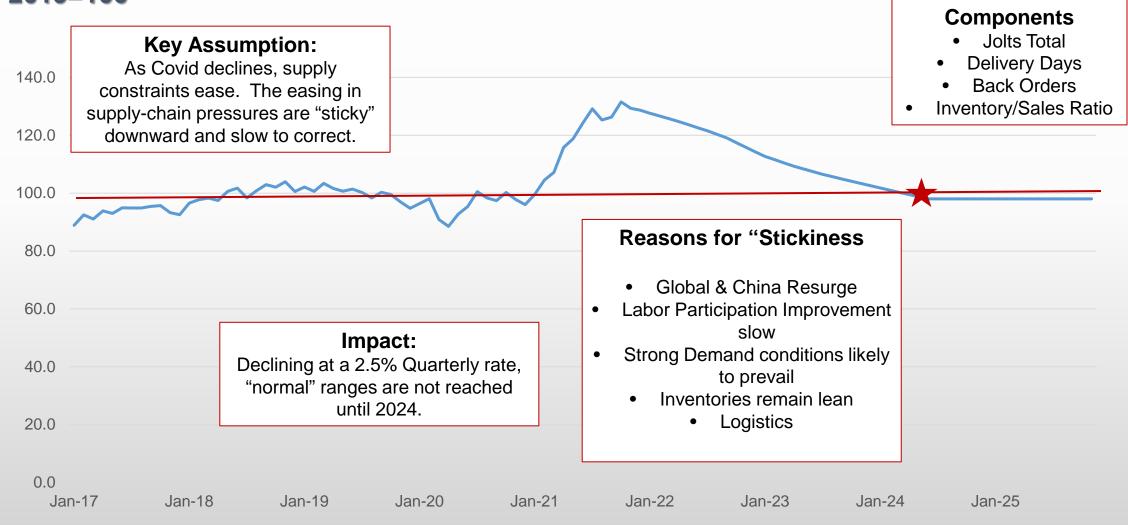
# Labor Force Growth Restraints Labor Participation Rate







# PCA Supply Chain Index 2019=100





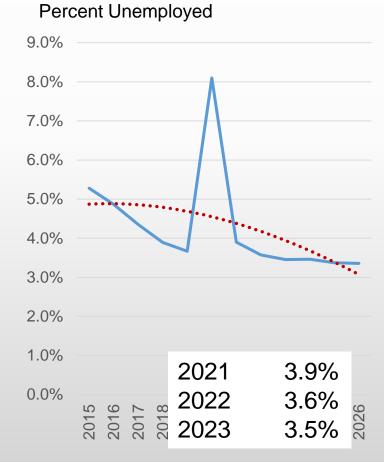


# Macroeconomic Summary: Baseline



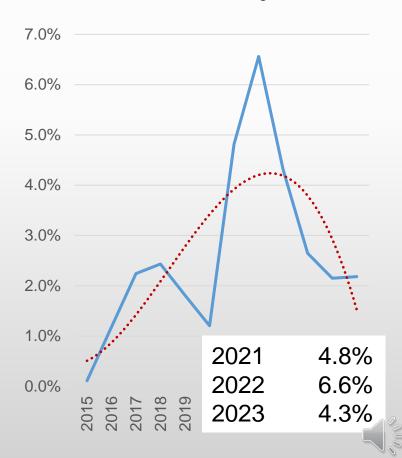


#### **Unemployment Rate**



#### **Inflation Rate**

CPIU, Annual Percent Change





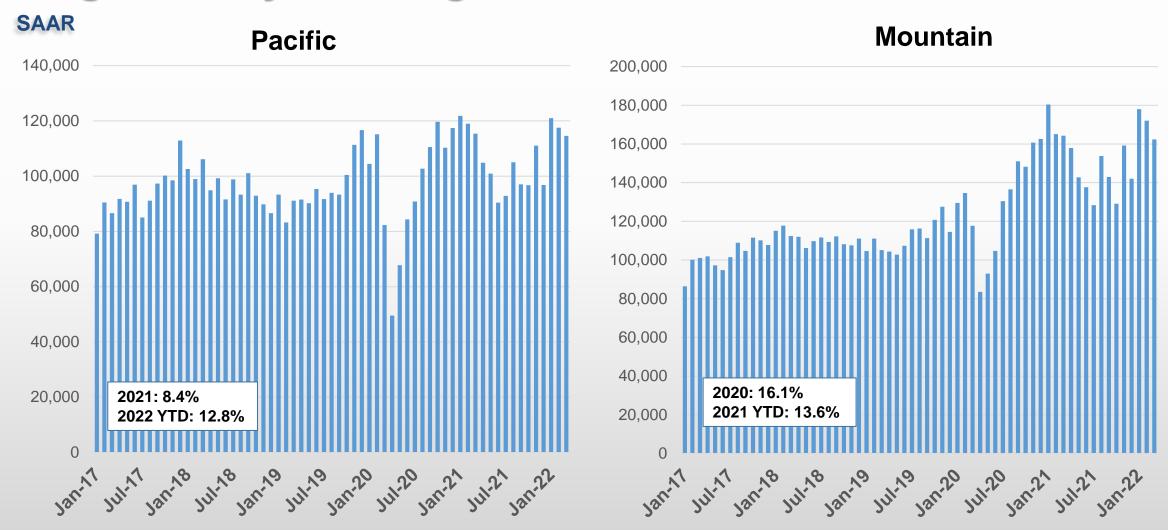
# **Residential Update**





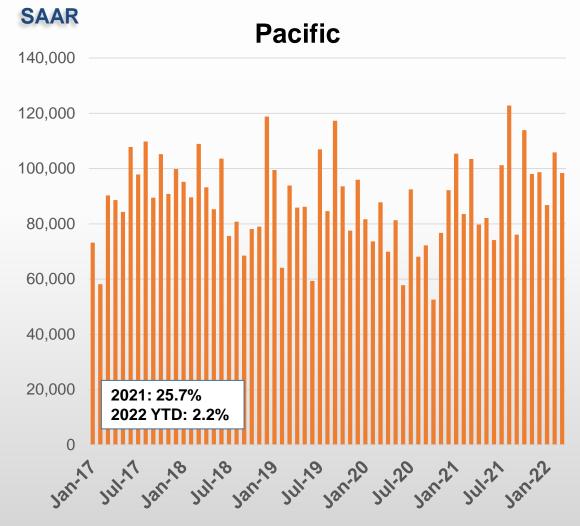
Source: Census

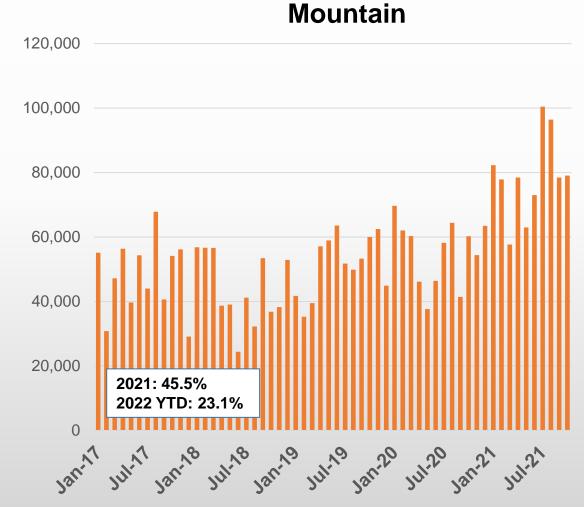
# Single Family Housing Permits: West





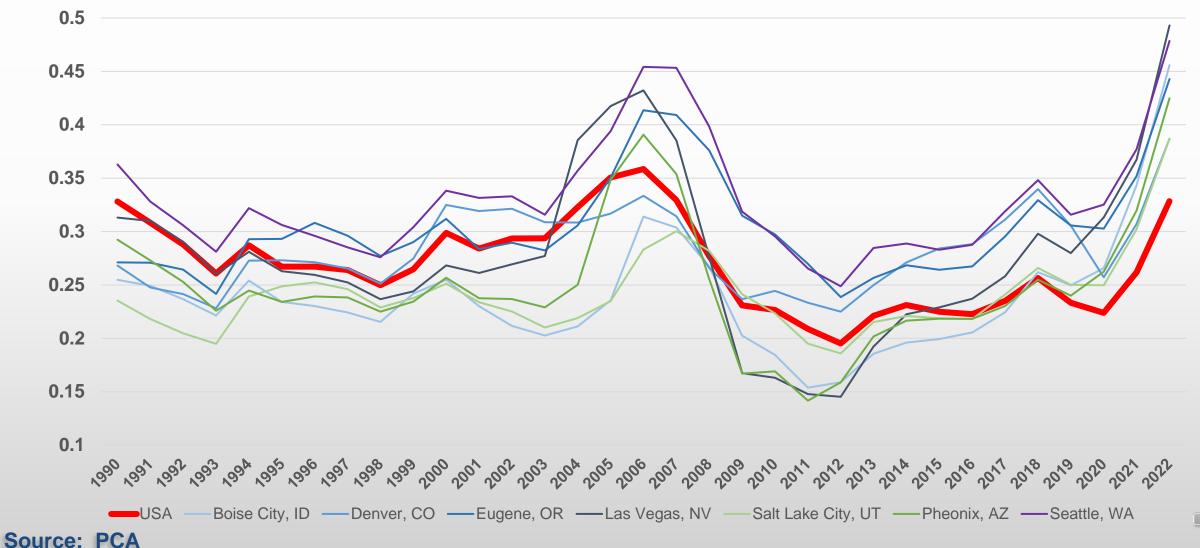
# **Multifamily Housing Permits: West**







### **Monthly Payment to Household Income Ratio**



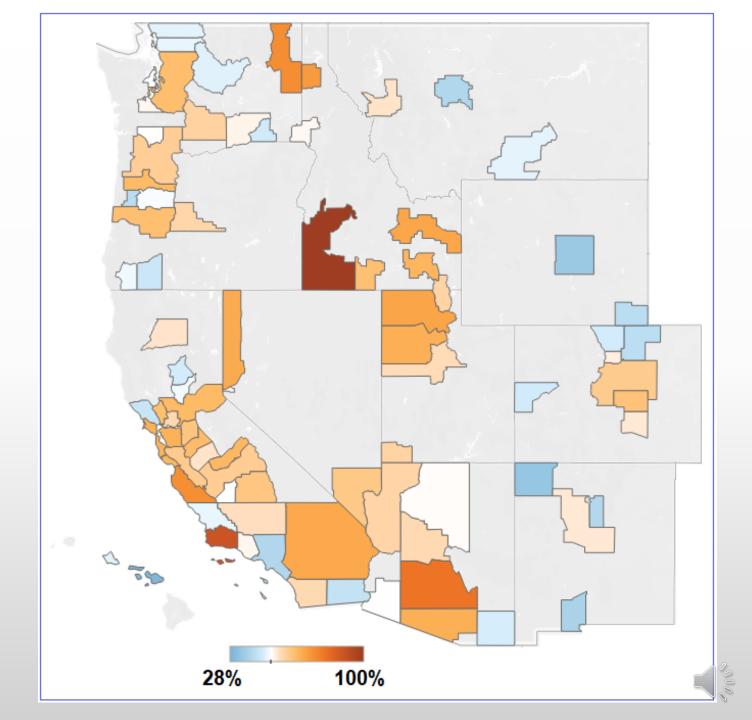




# Percent Change in Monthly Mortgage Payment From Pre-Pandemic Levels

**Estimated Monthly Payment in 2022/2019** 

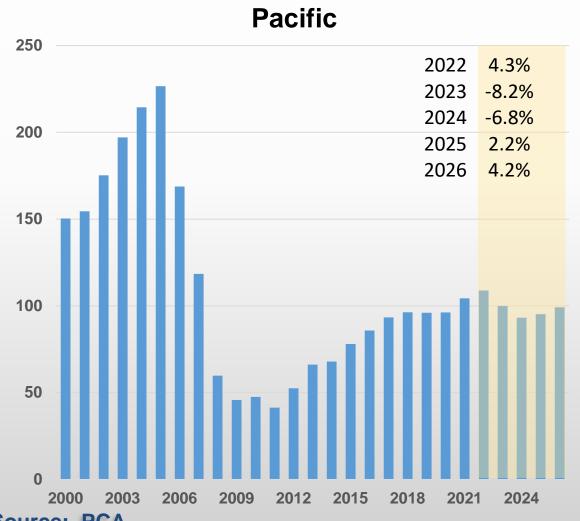
- MSA's in blue below average of all MSA's in US; MSA's in orange above.
- Widespread increase in monthly mortgage payment in region.
- Boise City, ID has doubled its monthly mortgage payment in three years.

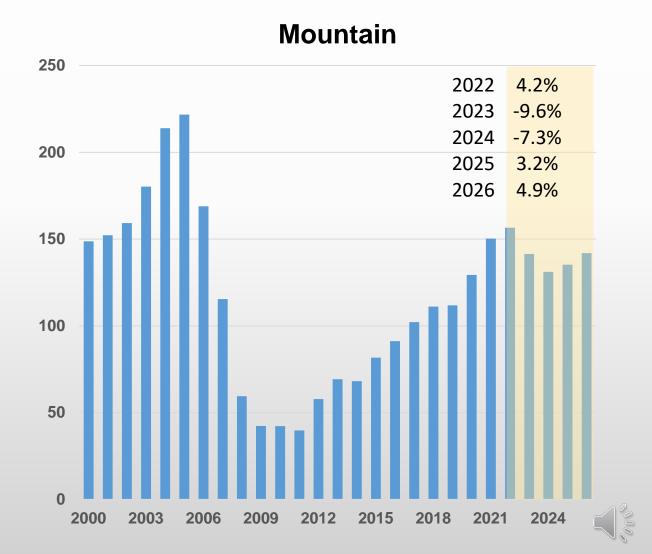




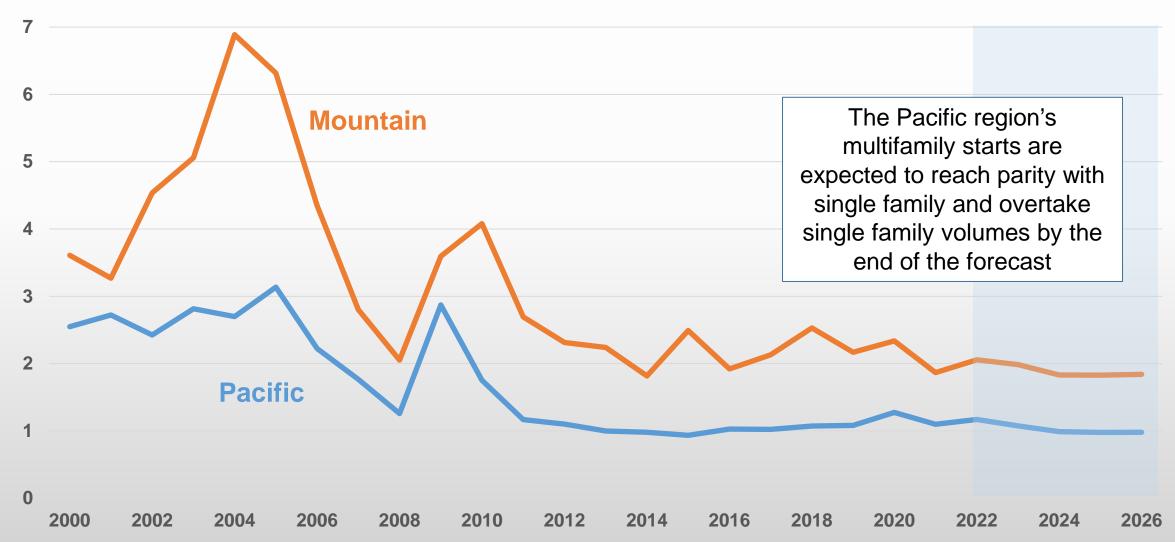
# **Single Family Housing Permits**

#### **Thousands**



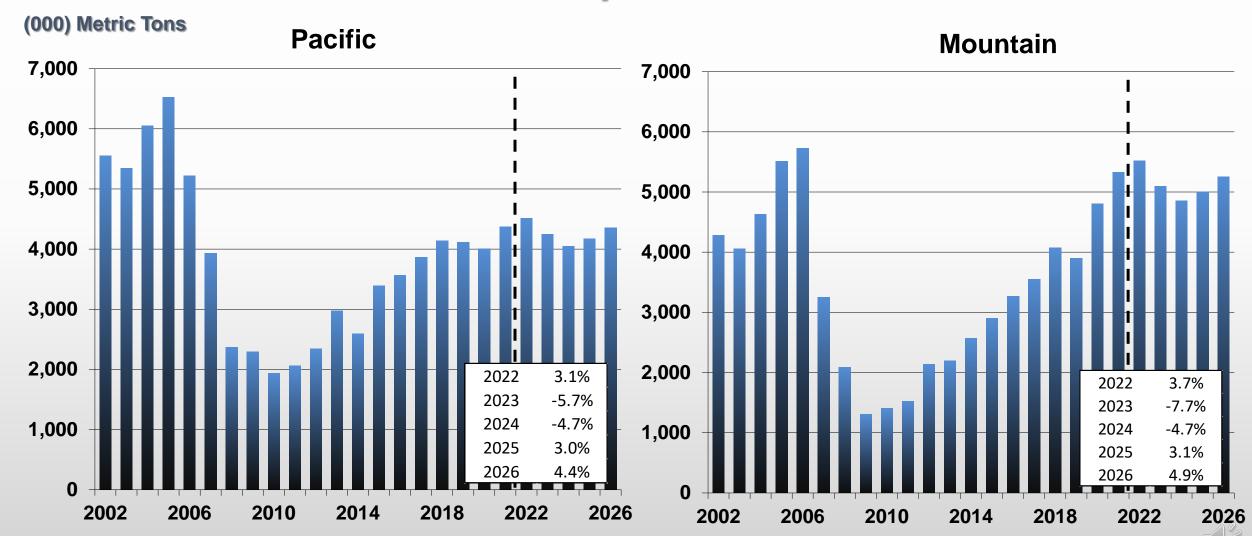


### **Single Family to Multifamily Ratio**





# **Residential Cement Consumption: West**





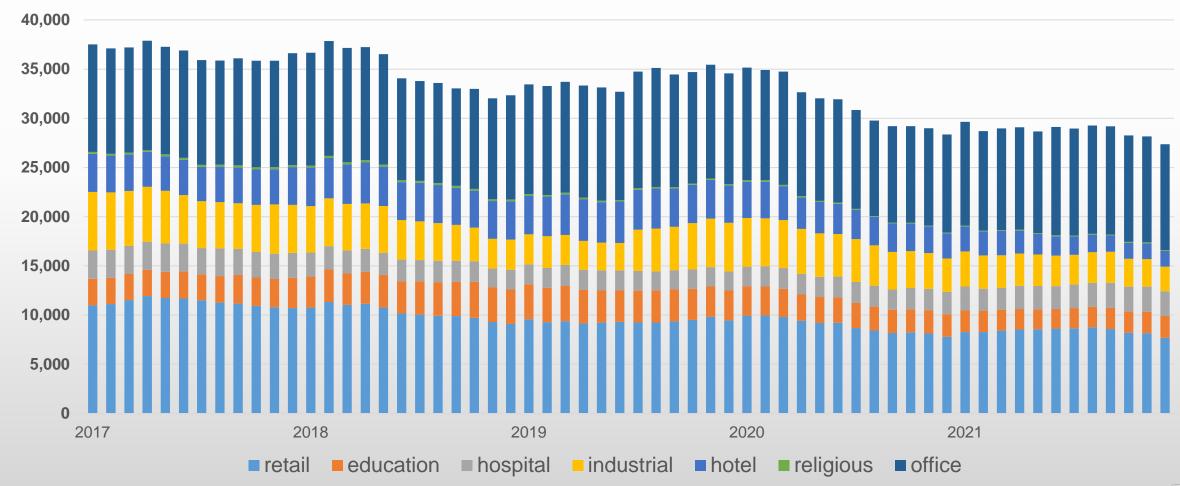
# **Nonresidential Update**





# **Commercial Construction Spending: Pacific**

\$2009, Thousands, SAAR



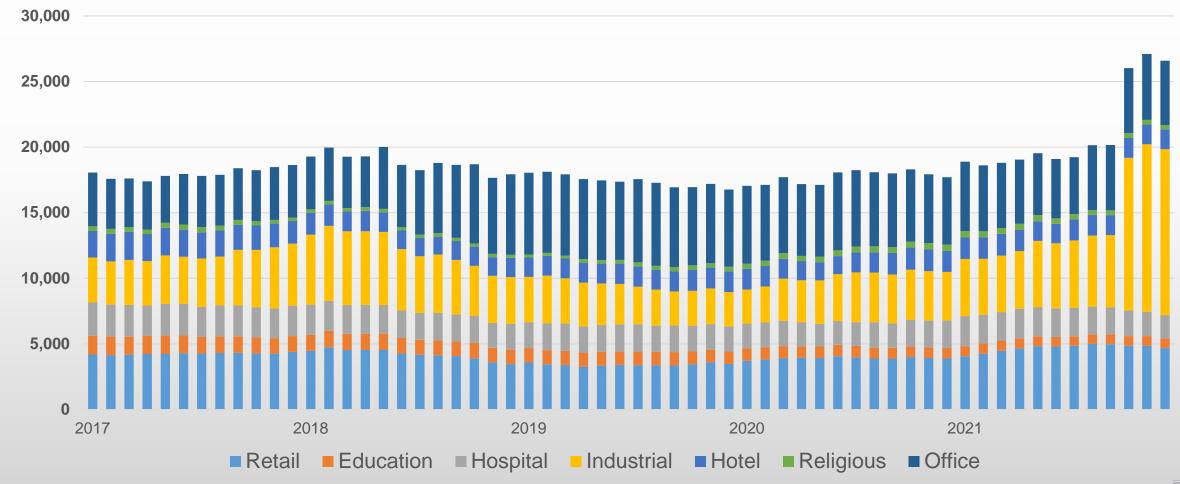
Source: Census, Dodge, PCA





# **Commercial Construction Spending: Mountain**

\$2009, Thousands, SAAR

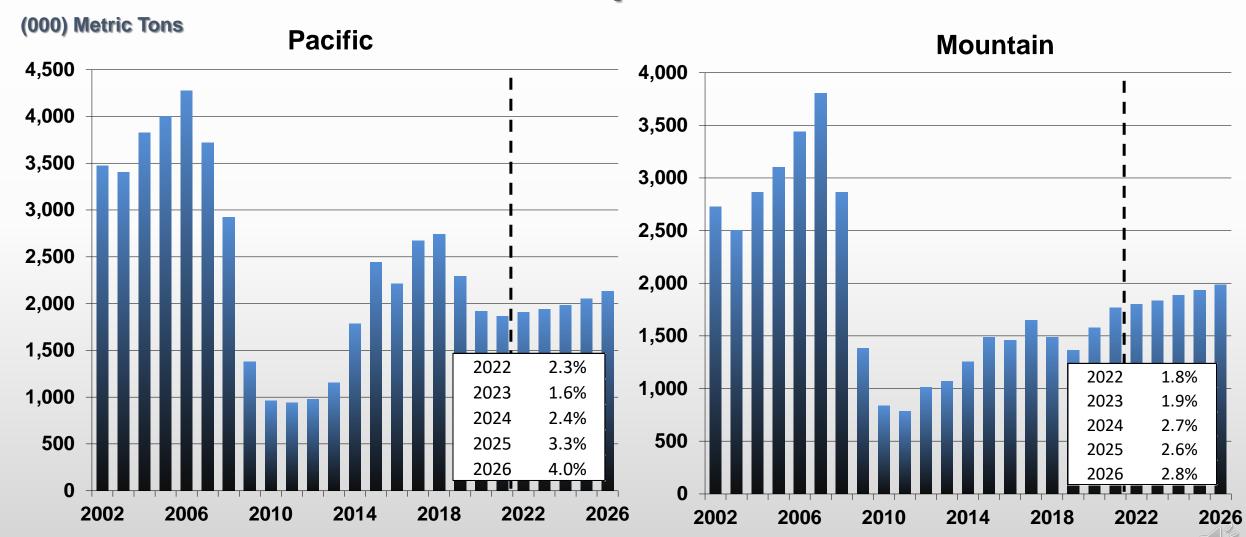


Source: Census, Dodge, PCA



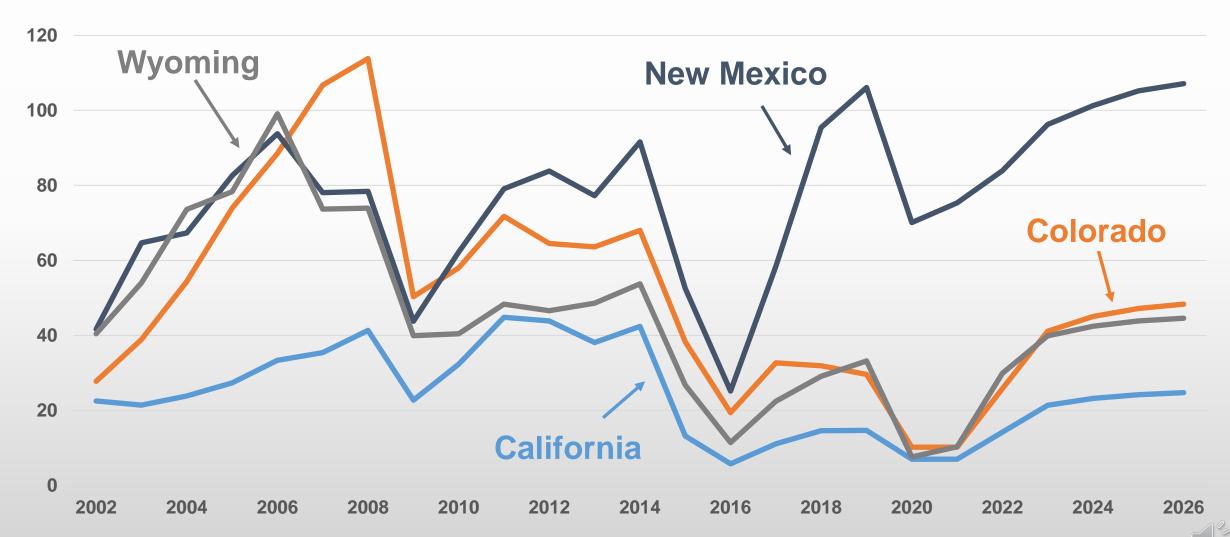


# **Commercial Cement Consumption: West**





# **Active Rotary Rigs**

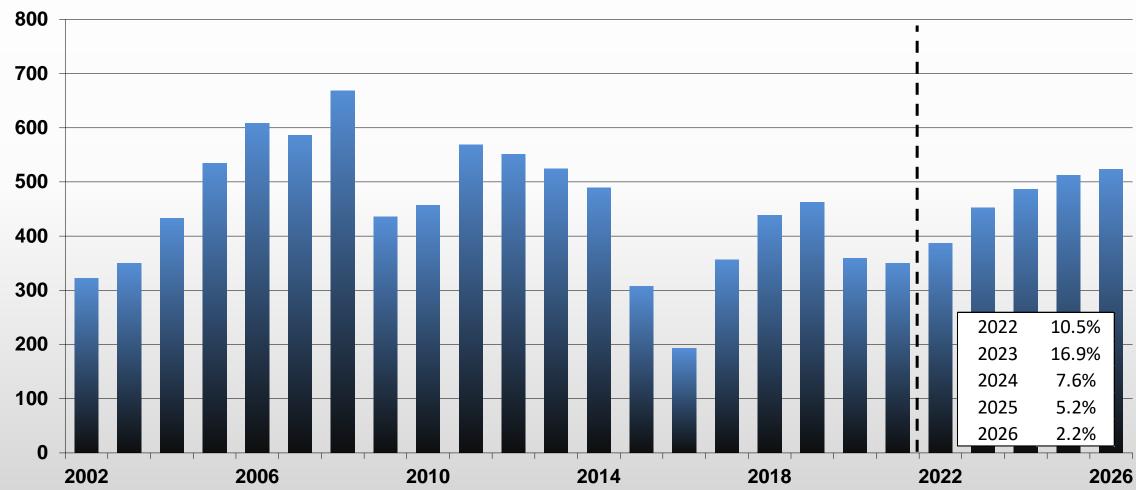


**Source: Baker Hughes** 



# **Oil Well Cement Consumption**

#### **000 Metric Tons**







# **Public Update**





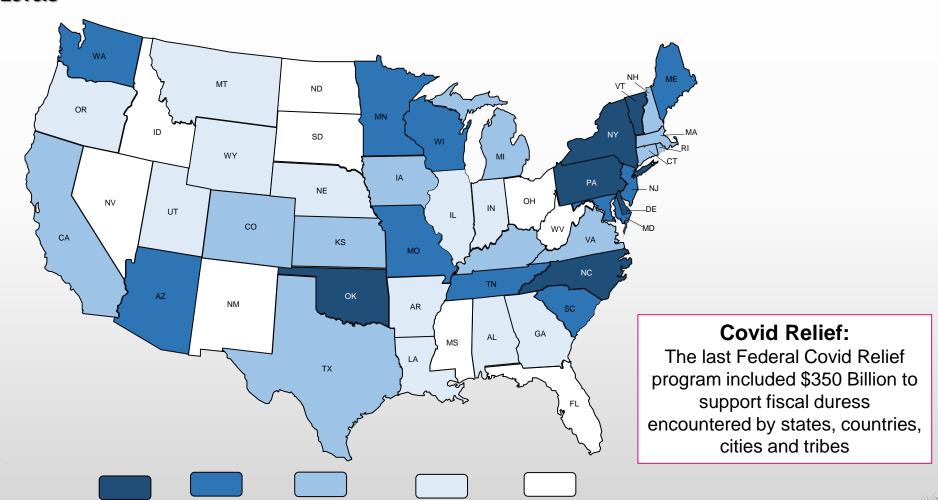
# **Evolving State Fiscal Conditions**

Percent Increases in General Fund Tax Revenues from Pre-COVID Levels

+10

6% to

9.9%



0% to

2.9%

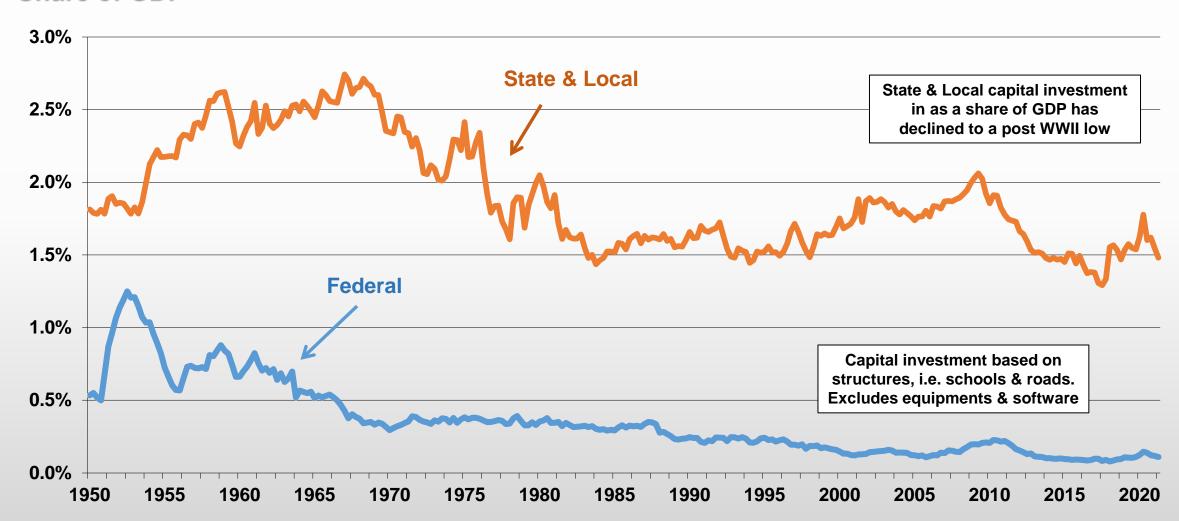
**Decline** 

3% to

5.9%



# Public Capital Investment Share of GDP

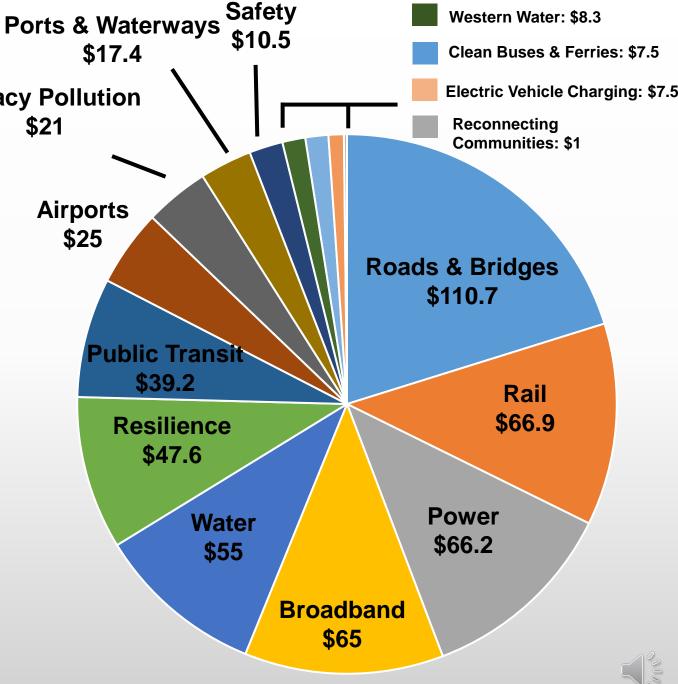






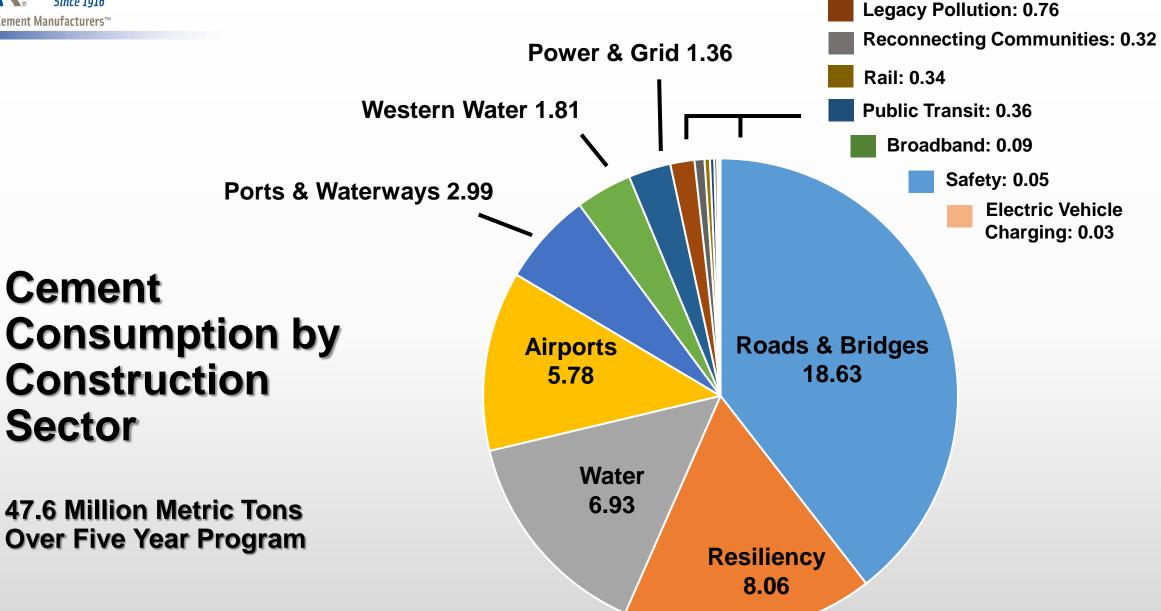
# Infrastructure Package Pollution \$21

- Represents \$550 billion in new spending
- Bill reauthorizes current surface transportation bills (FAST Act, WRDA, FAA, etc.) at current levels for 5 years, which totals \$1.2 trillion
- Much less in dollar size than previous proposals but heavier emphasis on traditional infrastructure



**Source: White House** 

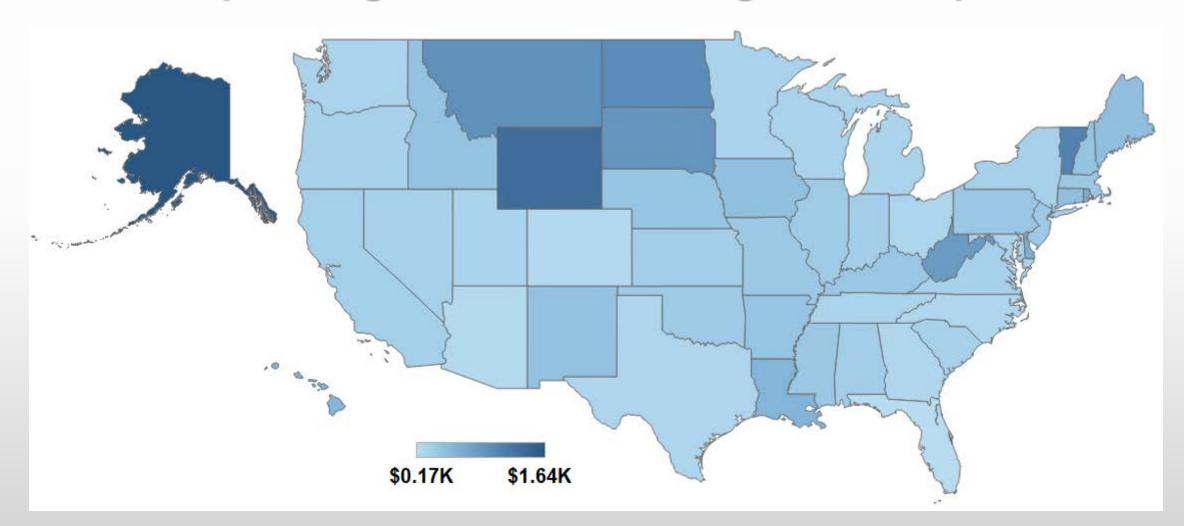








# Net New Spending on Roads & Bridges Per Capita







# Region Specific Spending: Western Water Infrastructure

- \$8.3 billion dedicated to funding just for water infrastructure in the western U.S.
- Nearly all spending categories carry significant cement intensity.

		\$8.30
Aging Infrastructure	\$	3.20
Water storage, groundwater storage and conveyance projects	\$	1.15
Water recycling and reuse projects	\$	1.00
Desalination projects	\$	0.25
Rural water projects	\$	1.00
Dam safety projects	\$	0.50
Drought Contingency Plan	\$	0.30
waterSMART Water and Energy Efficiency Grants	\$	0.40
Cooperative Watershed Management Program	\$	0.10
Aquatic Ecosystem Restoration Program	\$	0.25
Multi-benefit watershed projects	\$	0.10
Colorado River fish species recovery programs	\$	0.05
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Water storage, groundwater storage and conveyance projects Water recycling and reuse projects Desalination projects Rural water projects Dam safety projects Drought Contingency Plan waterSMART Water and Energy Efficiency Grants Cooperative Watershed Management Program Aquatic Ecosystem Restoration Program Multi-benefit watershed projects	Water storage, groundwater storage and conveyance projects  Water recycling and reuse projects  Desalination projects  Rural water projects  Dam safety projects  Drought Contingency Plan  waterSMART Water and Energy Efficiency Grants  Cooperative Watershed Management Program  Aquatic Ecosystem Restoration Program  Multi-benefit watershed projects  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$





# There Will Be a Wait for Pouring to Begin

Small Volumes of cement consumption associated with the program materialize in second half 2022.

Six One Eighteen April Months Year Months

Federal & State Paperwork

Bid Letting & Review

**Contract Award to Construction** 



Average Construction Start: Early/Mid-2023





Also the issue of inflation: Inflation will eat away at real spending power of nominal dollars awarded in 2021 each consecutive

year.

## **Infrastructure Timing Distribution**

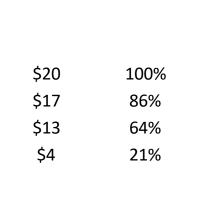
**Highway & Bridges** 

This is an Representation of the process and not actual numbers.

		Fiscal Year Spending			
Spending					
Allocation	2023	2024	2025	2026	
Billion \$	Year	Year	Year	Year	
	1	2	3	4	

Process repeated across all construction segments that are impacted by the Infrastructure Program

		1	2	3	4
		21%	43%	22%	14%
2023	\$20	\$4	\$9	\$4	\$3
2024	\$20		\$4	\$9	\$4
2025	\$20			\$4	\$9
2026	\$20				\$4
2027	\$20				
Total Spending	\$100	\$4	\$13	\$17	\$20



**Total Spent Total Spent** 

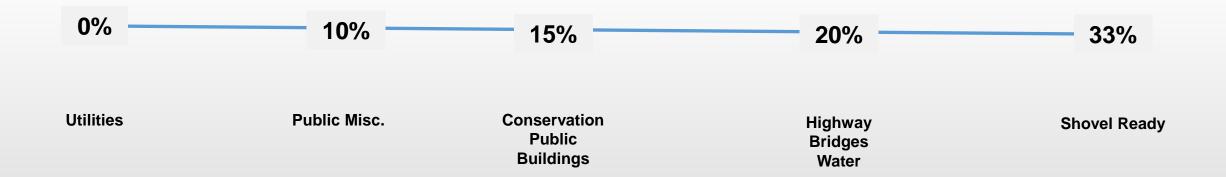




# **S&L Sterilization**

**Percentage Foregone** 

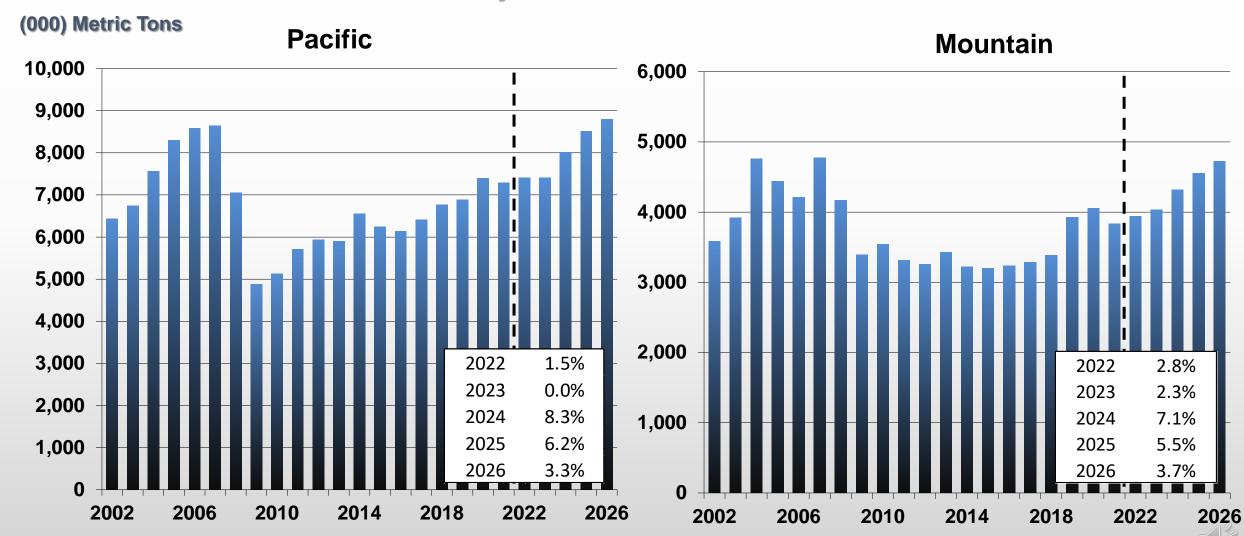
TEA/SAFETY-LU: 31% ARRA: 81%







# **Public Cement Consumption: West**





# **Cement Outlook Summary**





## **Total Portland Cement Consumption: West**

