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THE CONSTRUCTION
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U.S. & Washington Construction Outlook: Pandemic Impacts, Policy Initiatives, Project Implications

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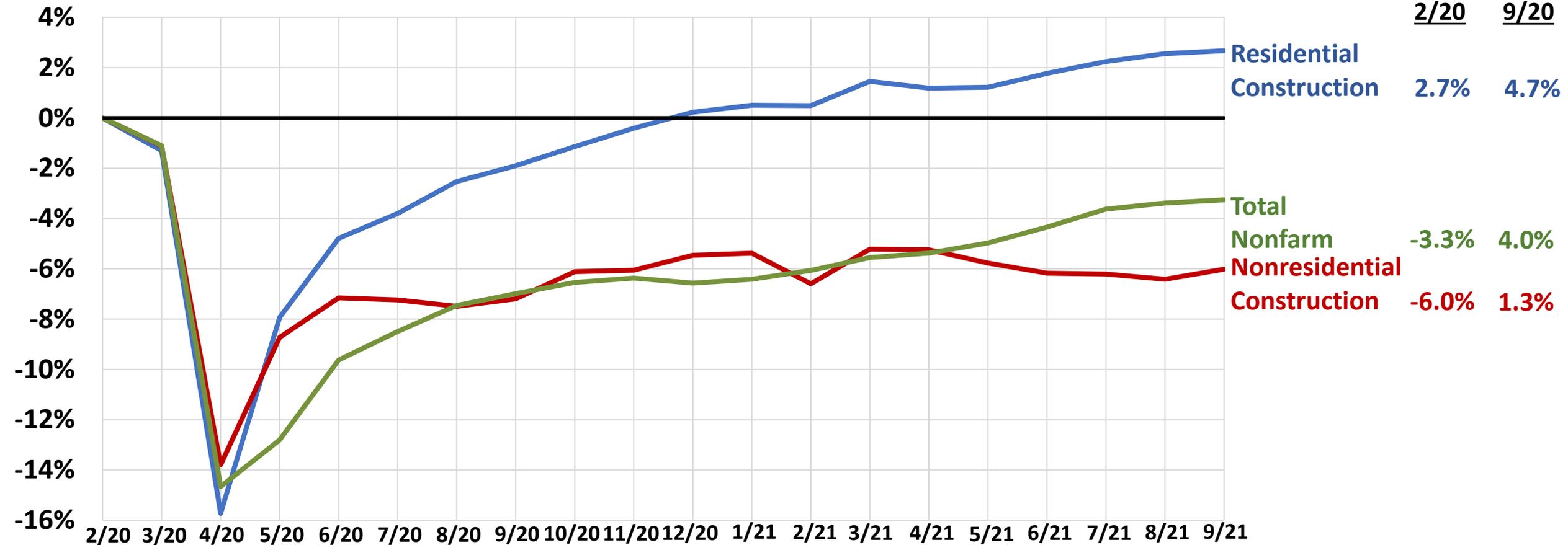
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Total Nonfarm & Construction Employment, Feb. 2020-Sep. 2021

cumulative change (seasonally adjusted)



Change to 9/21 from:



US & WA Construction Employment

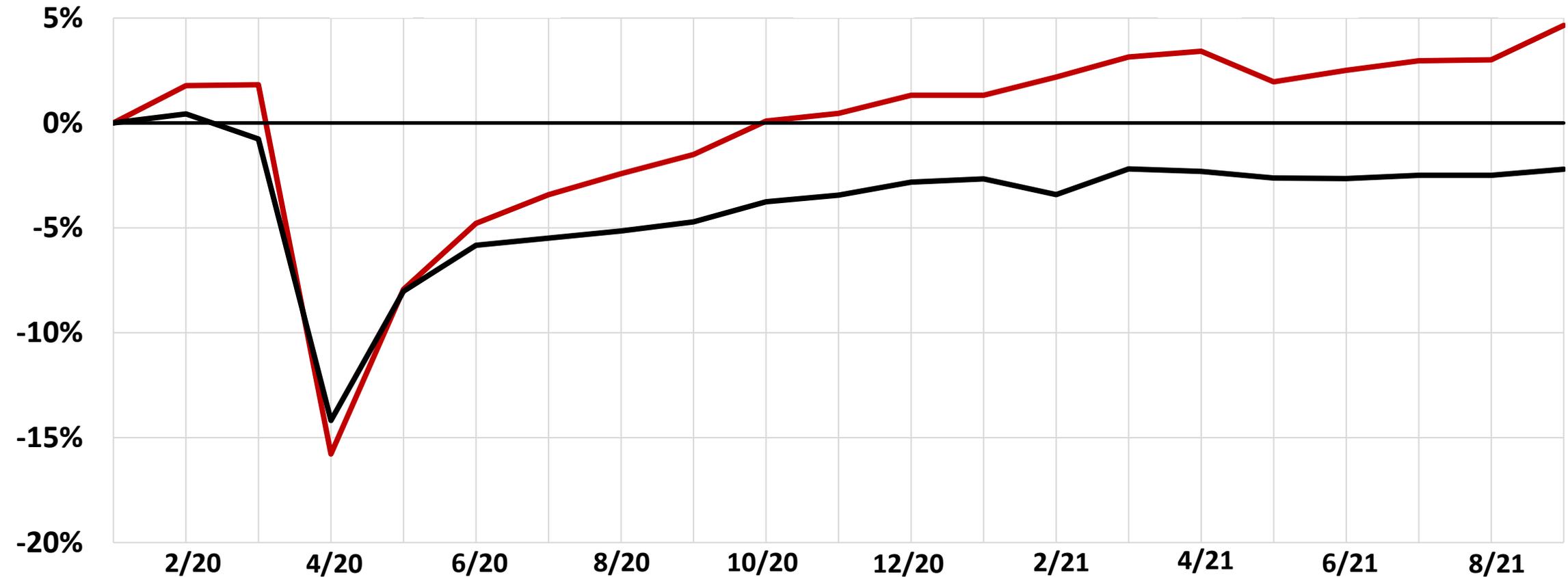
Cumulative change, Jan 2020-Sep 2021, seasonally adjusted



% change
Jan 2020-
Sep 2021:

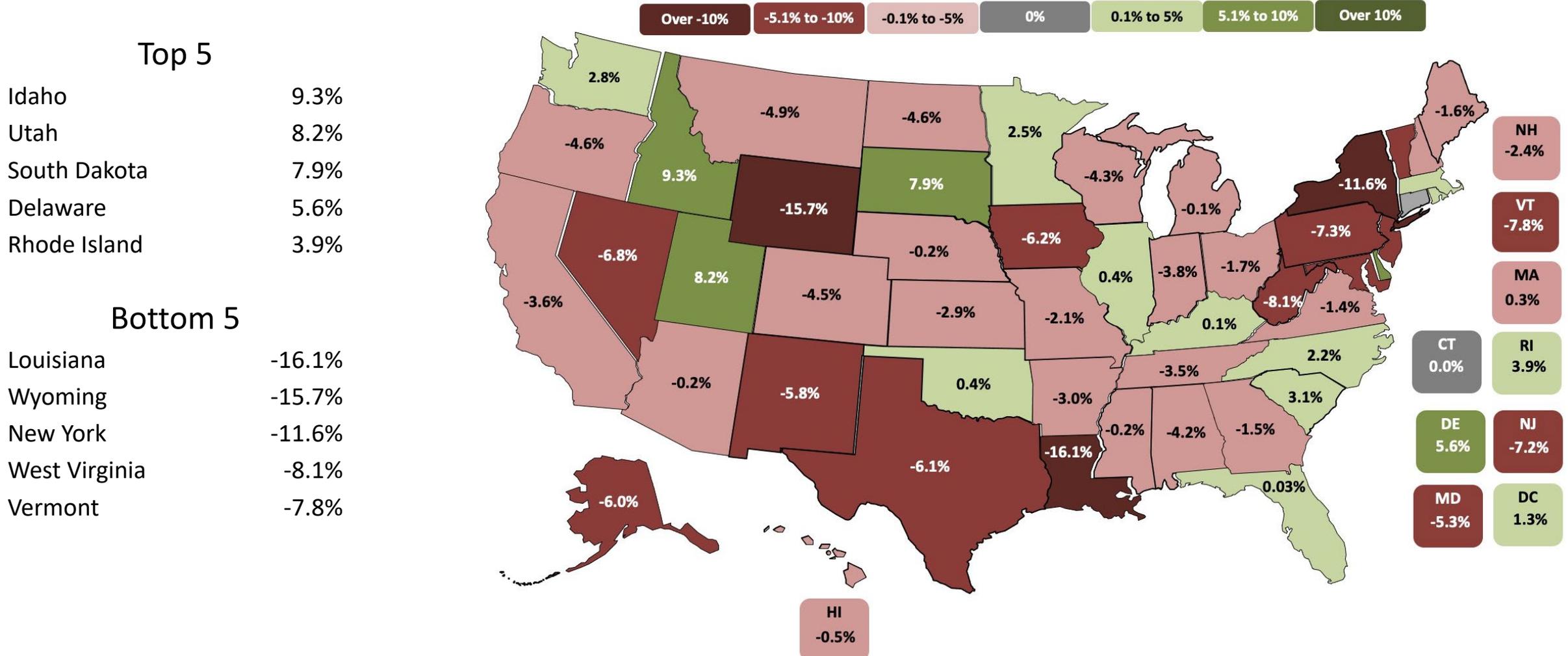
WA 4.7%

US -2.2%



State construction employment change, Feb. 2020-Sep. 2021

14 states and DC **up**, 1 state **flat**, 35 states **down** (U.S.: -2.6%)

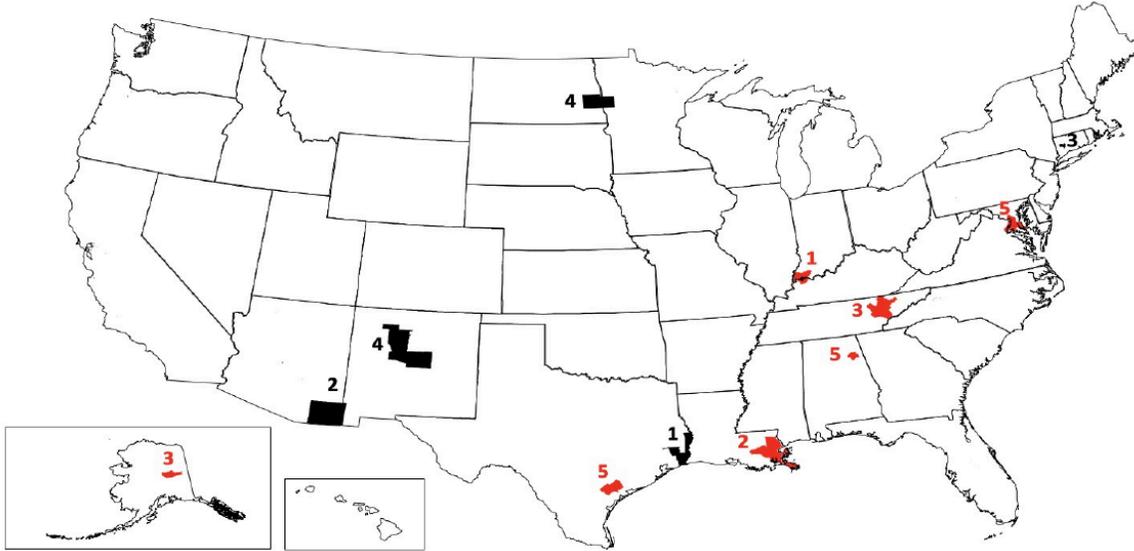


Metro construction employment change, Sep. 2020-Sep. 2021

258 metros **up**, 33 metros **unchanged**, 67 metros **down** (U.S.: 2.8%)



Metro Areas with Largest Percent Changes in Construction Employment, September 2020–September 2021



Top 5 Areas

	12-month % change
1 Beaumont-Port Arthur, TX	20%
2 Sierra Vista-Douglas, AZ	19%
3 Waterbury, CT NECTA	17%
4 Albuquerque, NM	15%
4 Fargo, ND-MN	15%

Bottom 5 Areas

	12-month % change
1 Evansville, IN-KY	-18%
2 New Orleans-Metairie, LA	-12%
3 Fairbanks, AK	-10%
3 Knoxville, TN	-10%
5 Gadsden, AL	-9%
5 Calvert-Charles-Prince George's, MD	-9%
5 Victoria, TX	-9%

Metro Areas with Largest Construction Employment Changes, September 2020–September 2021



Top 5 Areas

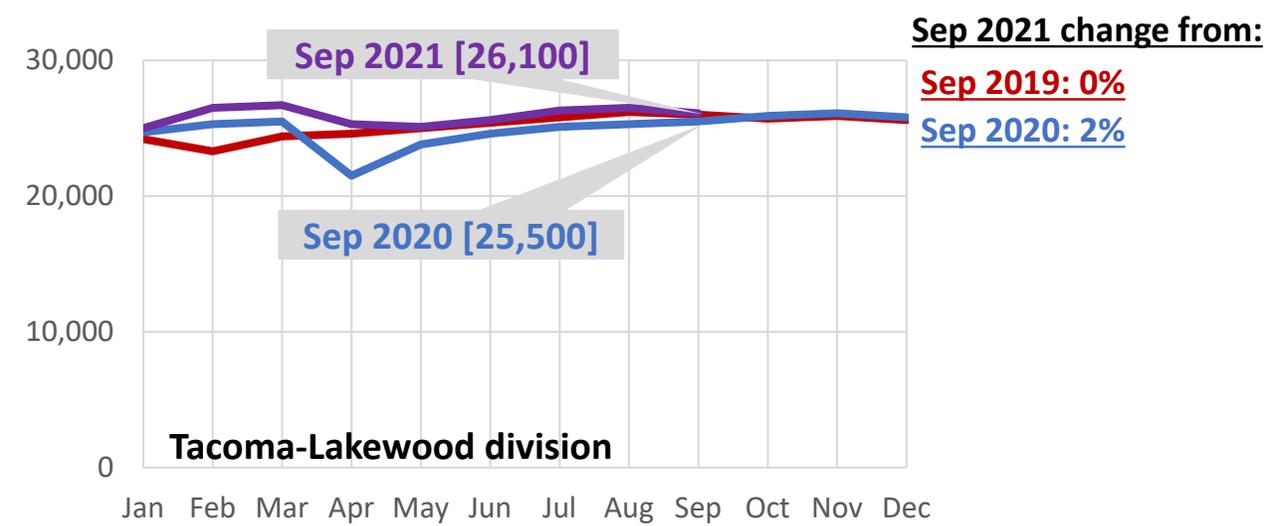
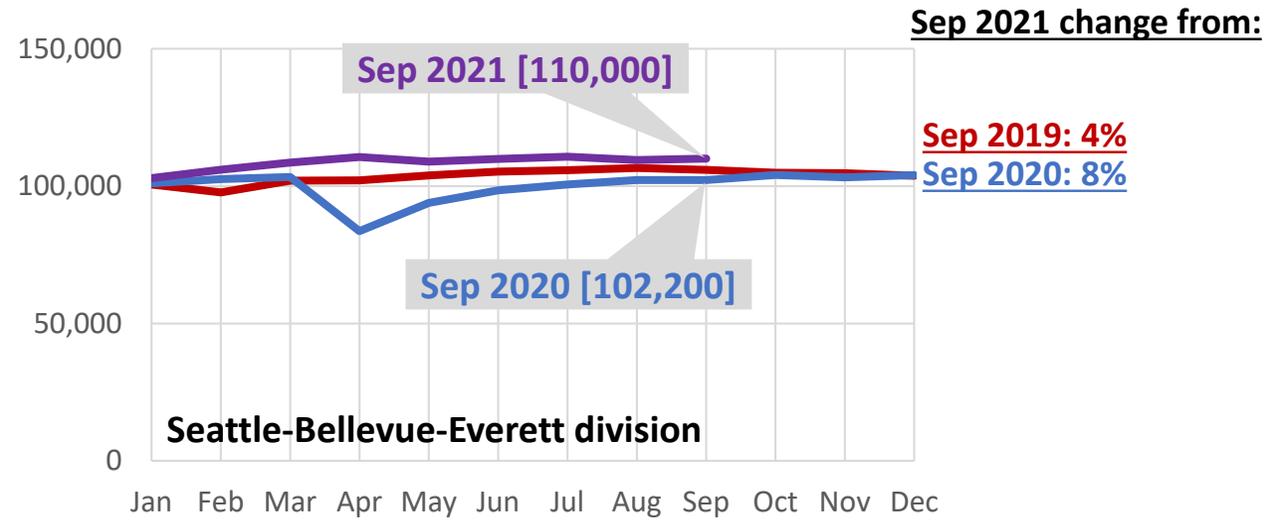
	12-month gains
1 Sacramento–Roseville–Arden-Arcade, CA	9,000
2 Seattle-Bellevue-Everett, WA Div.	7,800
3 San Diego-Carlsbad, CA	7,600
4 Boston-Cambridge-Newton, MA NECTA Div.	6,700
4 Chicago-Naperville-Arlington Heights, IL Div.	6,700

Bottom 5 Areas

	12-month losses
1 Nassau County-Suffolk County, NY Div.	-6,000
2 New York City, NY	-5,500
3 Calvert-Charles-Prince George's, MD	-3,100
3 New Orleans-Metairie, LA	-3,100
5 Baltimore-Columbia-Towson, MD	-2,400

Washington Metro Area Construction Employment

January 2019–September 2021, not seasonally adjusted



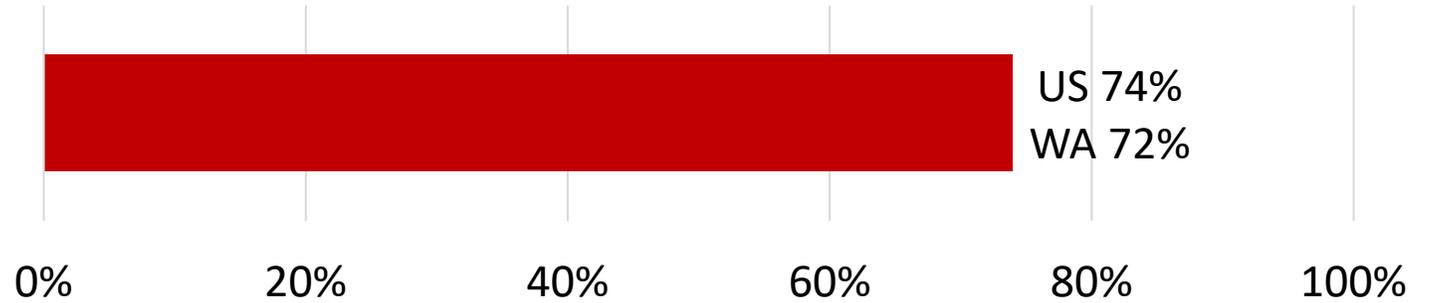
2021 AGC Workforce Survey Results

(responses: US 2,136, WA 88)



Hiring expectation

Expect to hire in the next 12 months



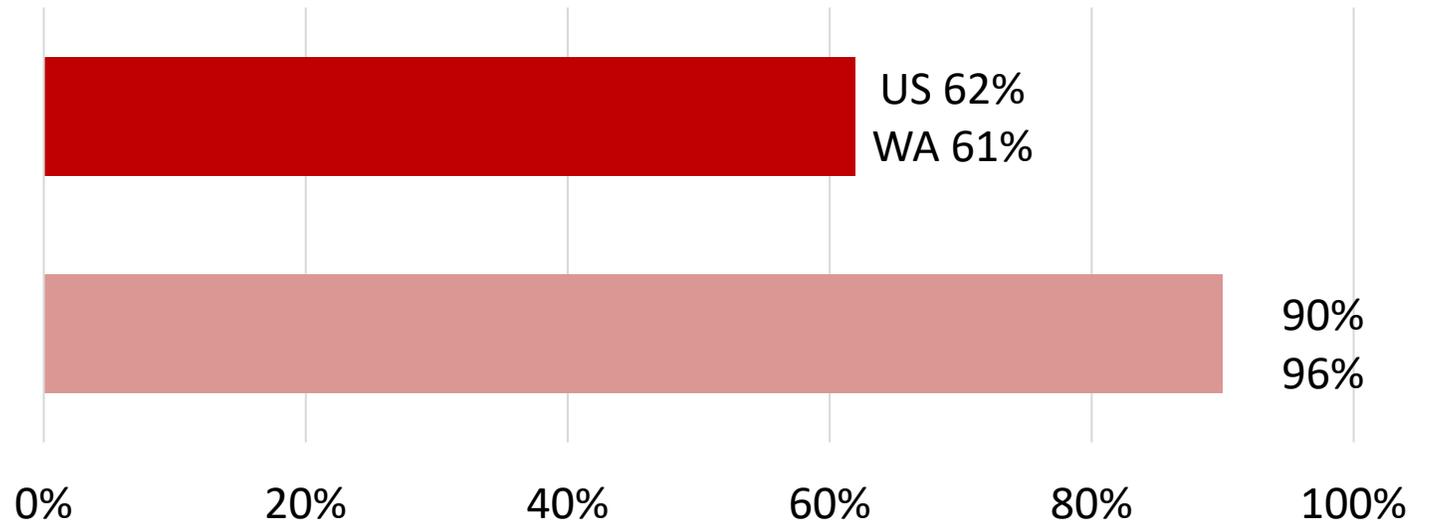
Need to fill open positions

Salaried positions

US 62%
WA 61%

Hourly craft positions

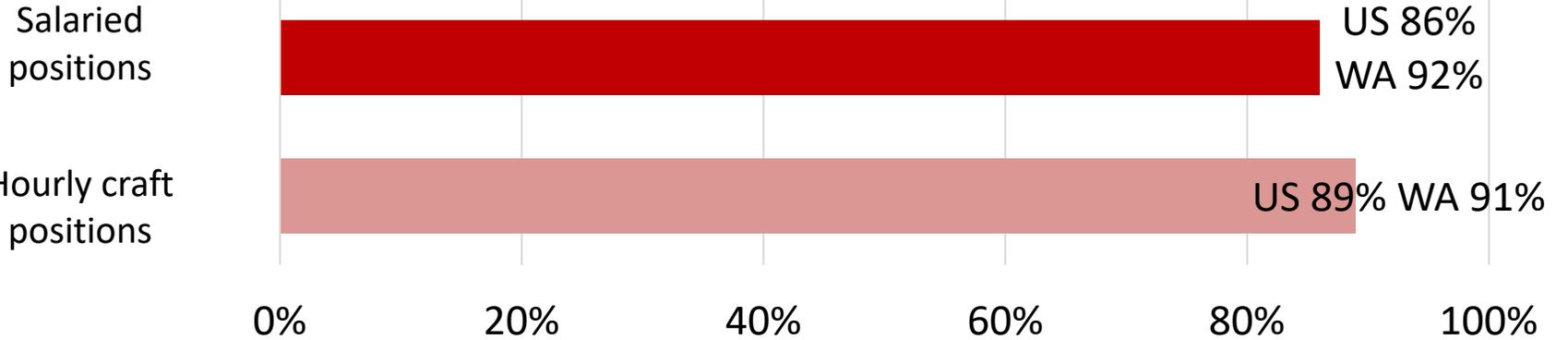
90%
96%



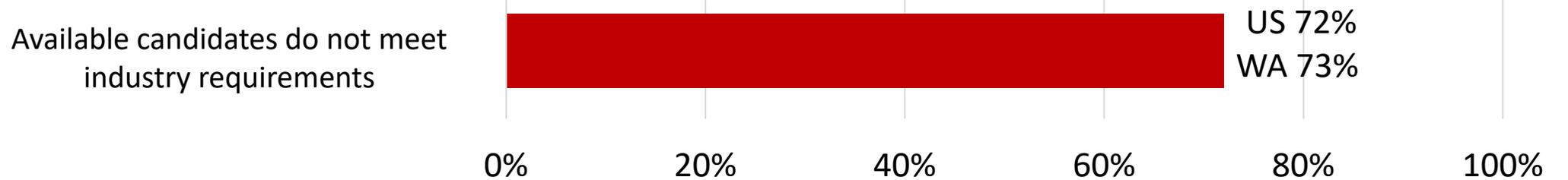
2021 AGC Workforce Survey Results



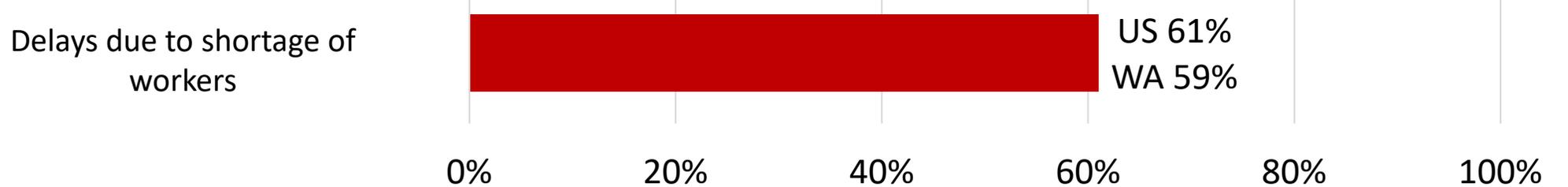
We are having a hard time filling some or all positions



Difficulty finding quality workers

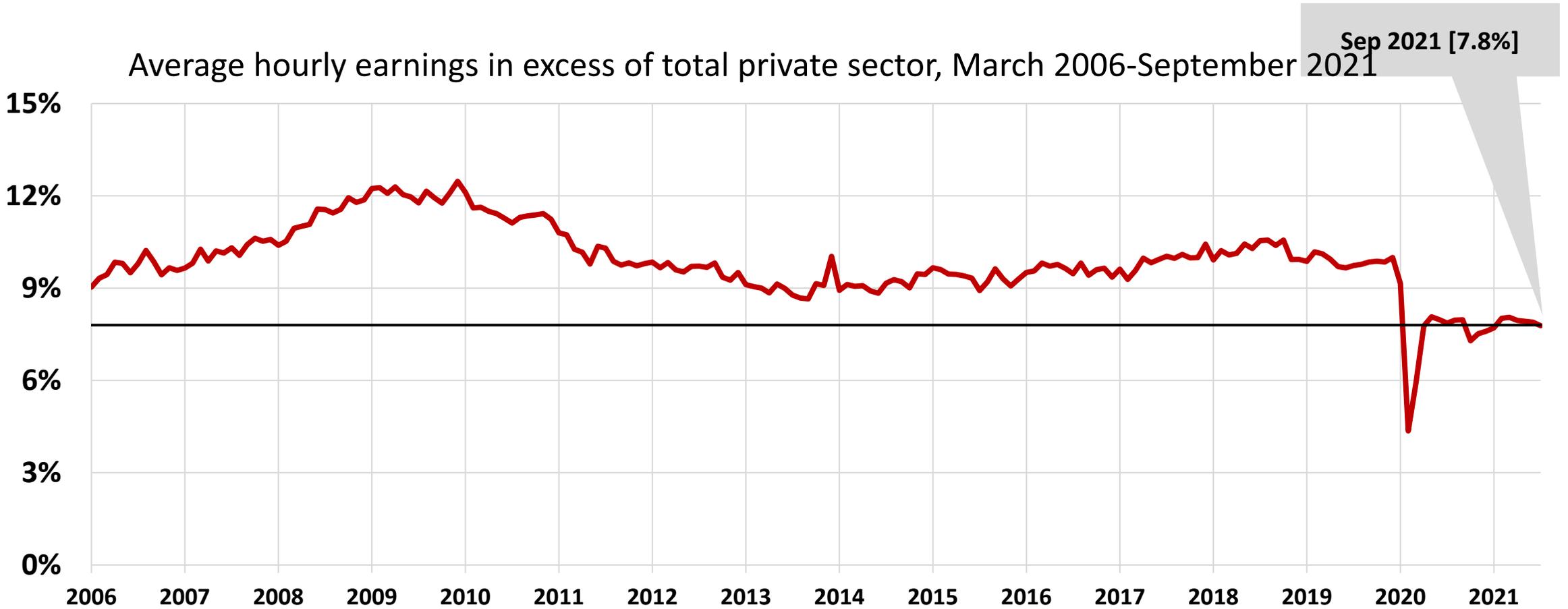


Construction delays



2 concerns about construction worker supply

- Low vaccination rate: 57% for construction workers, 81% for other occupations
- Shrinking “premium” for construction wages relative to total private sector



Year-to-date construction spending: Jan-Sep 2021 vs. Jan-Sep 2020

(not seasonally adjusted)



- Total 7%; private residential 25% (single-family 37%; multi 18%); private nonres -6%; public -6%

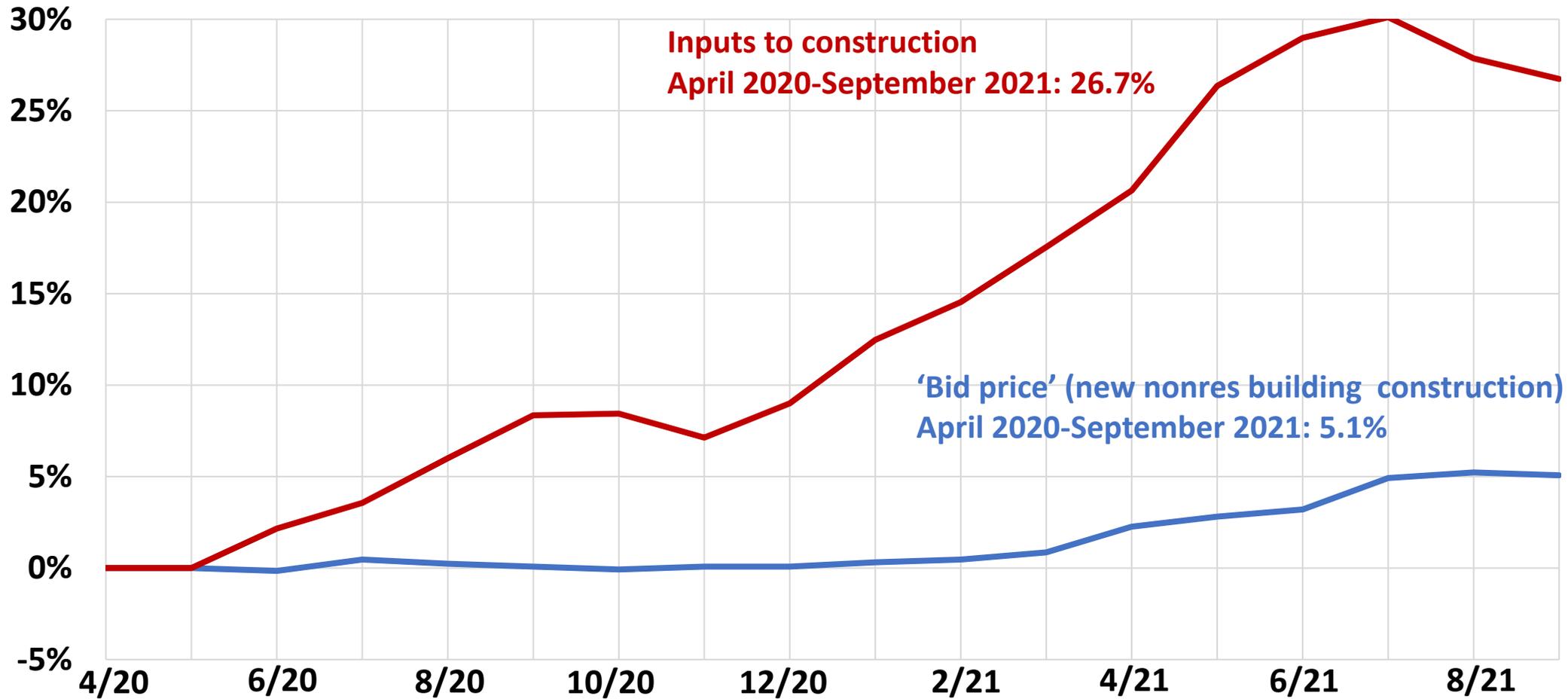
Largest segments (in descending order of 2021 year-to-date spending)

- Power -3% (electric -1%; oil/gas fields & pipelines -8%)
- Education -11% (primary/secondary -8%; higher ed -16%)
- Highway and street -1%
- Commercial 0% (warehouse 12%; retail -13%)
- Office -9%
- Mfg. -0.2% (chemical 6%; transp. equip. 2%; food/beverage/tobacco 20%; electronic/electric -16%)
- Transportation -6% (air -11%; freight rail/trucking -6%; mass transit 2%)
- Health care -1% (hospital 0.4%; medical building -4%; special care -3%)
- Lodging -32%



Construction input and 'bid price' producer price indexes (PPIs)

cumulative change in PPIs, April 2020 -September 2021 (not seasonally adjusted)

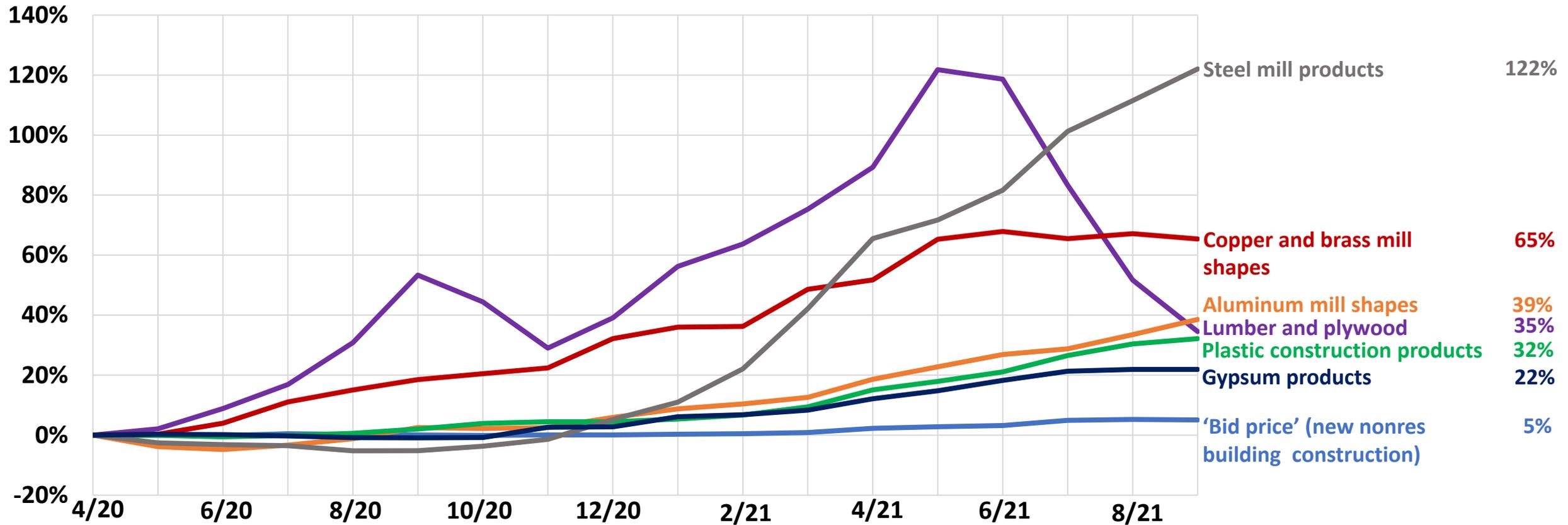


PPIs for construction and selected inputs

cumulative change in PPIs, April 2020 -September 2021 (not seasonally adjusted)



**% change
Apr 2020-
Sep 2021:**

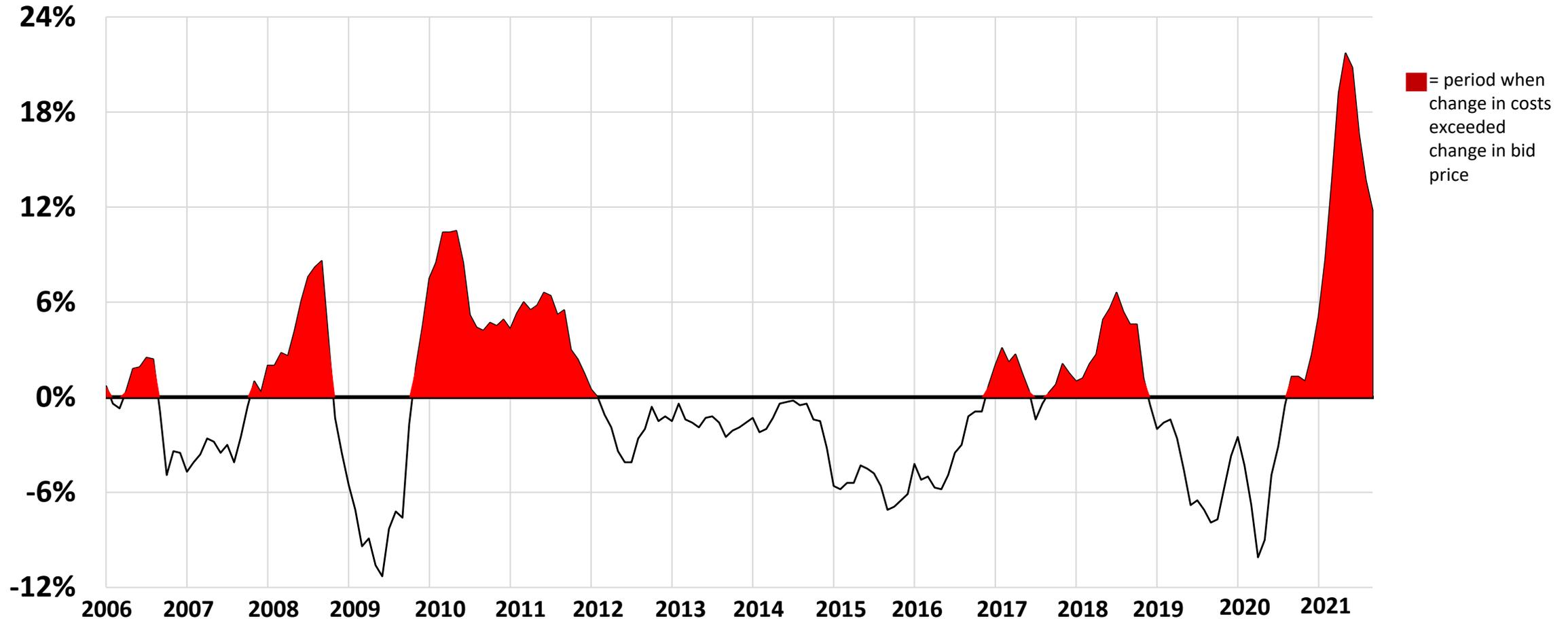


Cost squeeze on contractors can last two years or more

Difference between year-over-year change in materials costs vs. bid prices, Jan 2006-Sep 2021



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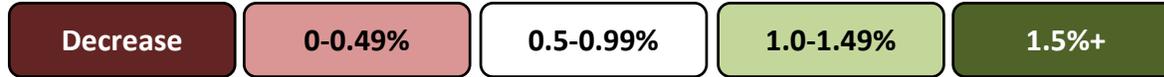


Medium-term impacts as recovery begins



- Economic recovery looks more certain but virus risks remain, especially for construction: low worker vaccination rate; possible pullback by owners on project starts
- Slower rebound than for other sectors as owners, investors/lenders, institutions, and public agencies face uncertainty about future demand, project costs, and completion times
- Continuing cost and supply challenges may lead to more project deferrals
- If the Senate-passed infrastructure bill becomes law, that will be a huge boost for transit funding but also private electric vehicles; mixed impact on transit demand
- Infrastructure funds will take time to distribute and award to individual projects, muting the medium-term impact on labor and materials supply
- Population movements within and between states may differ from recent past

Population change by state, July 2019–July 2020 (U.S.: 0.35%)

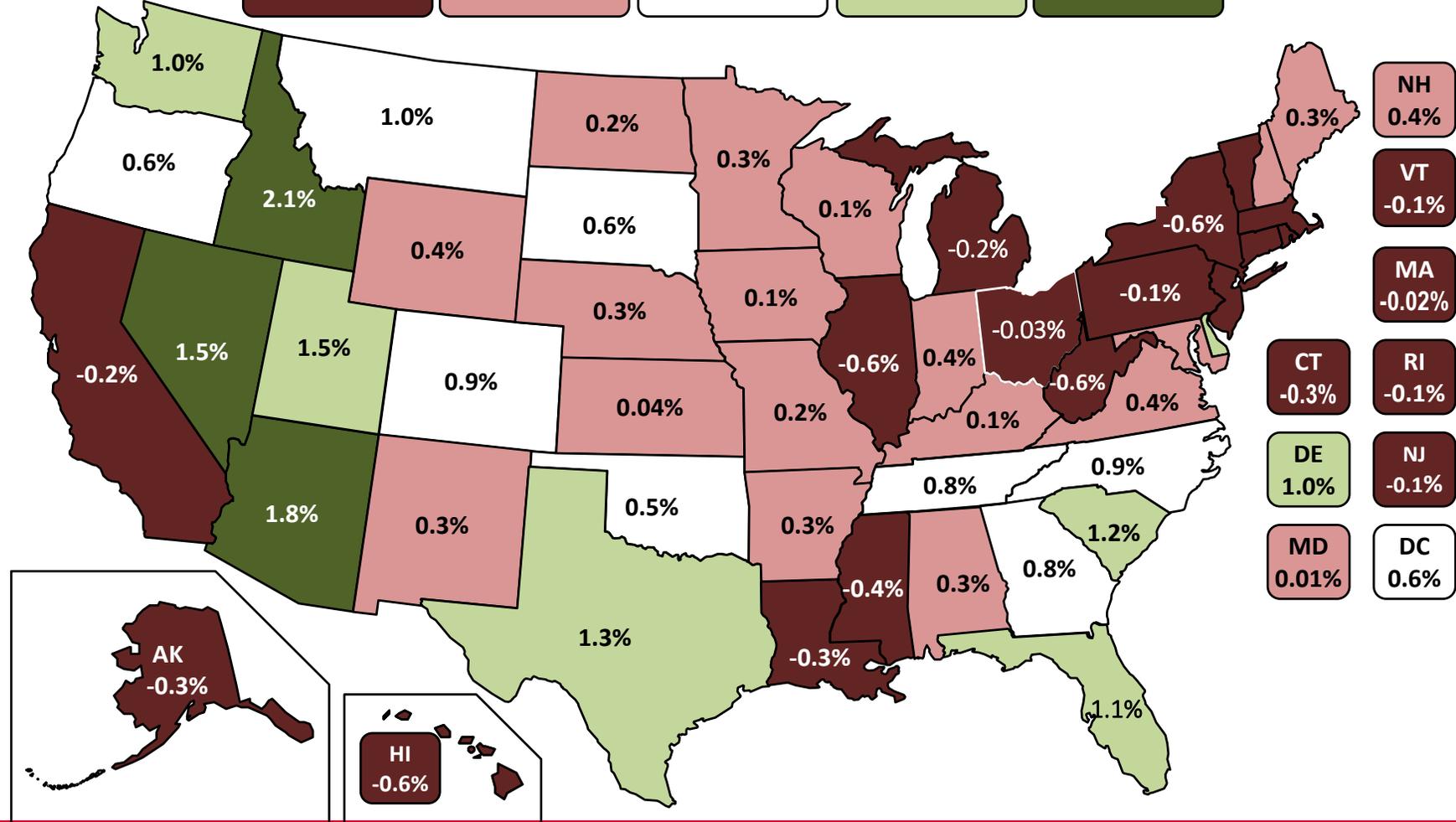


Top 5

ID	2.1%
AZ	1.8%
NV	1.5%
UT	1.5%
TX	1.3%

Bottom 5

NY	-0.6%
IL	-0.6%
HI	-0.6%
WV	-0.6%
MS	-0.4%



Conclusions



- Nonresidential construction spending and employment are likely to start increasing in 2022
- But the sector faces continuing challenges from volatile prices, supply-chain bottlenecks, competition for labor
- Owners such as transit agencies should expect higher (and possibly fewer) bids as contractors try to pass on materials and labor cost increases
- Owners can cushion the shock with price adjustment clauses, earlier buying of materials, flexibility about materials and design changes
- Too early to say how mix of core city/fringe/non-metro growth will change, but overall population growth is slowing

AGC economic resources

(email ken.simonson@agc.org)

- *The Data DIGest*: weekly 1-page email (subscribe at <http://store.agc.org>)
- *Construction Inflation Alert*:
<https://www.agc.org/learn/construction-data/agc-construction-inflation-alert>
- ConsensusDocs Price Escalation Resource Center:
<https://www.consensusdocs.org/price-escalation-clause/>
- Autodesk-AGC of America Workforce Survey results
- State and metro data, fact sheets: www.agc.org/learn/construction-data
- Monthly press releases: construction spending; producer price indexes; national, state, metro employment with rankings

