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**November 11, 2021**

# **U.S. Construction Outlook: Pandemic Impacts, Policy Initiatives, Project Implications**

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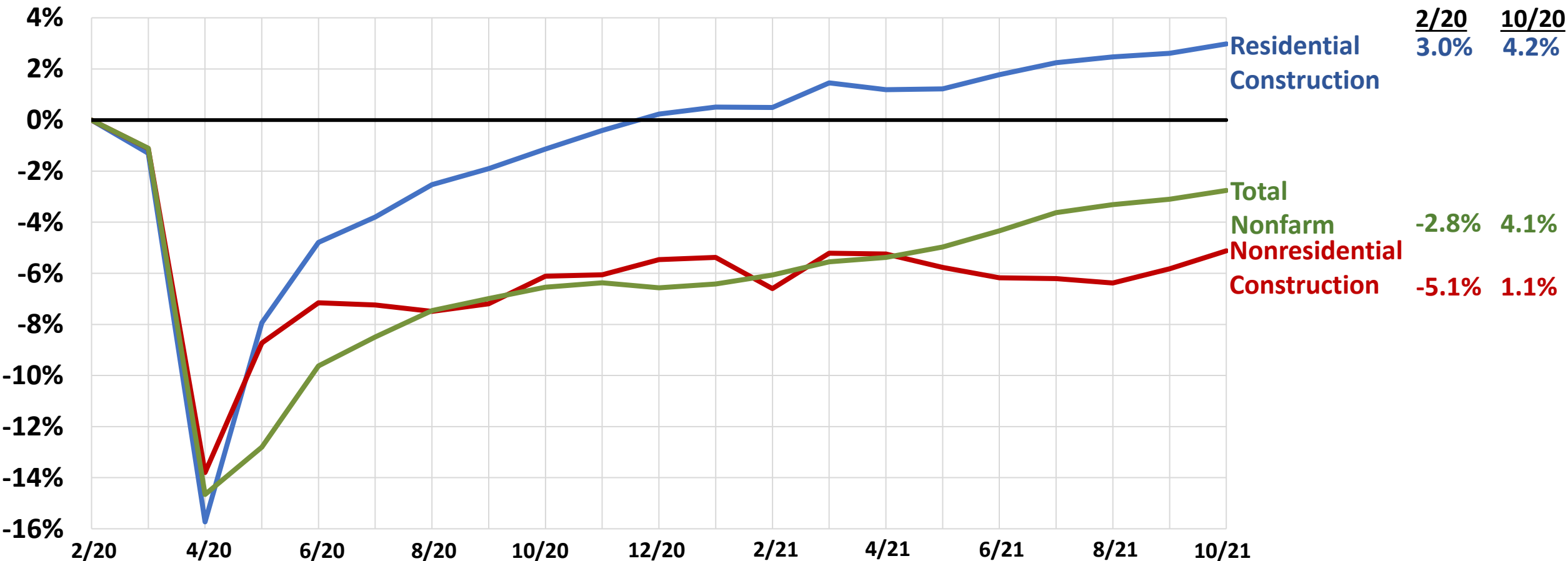
# Total Nonfarm & Construction Employment, Feb. 2020–Oct. 2021

cumulative change (seasonally adjusted)



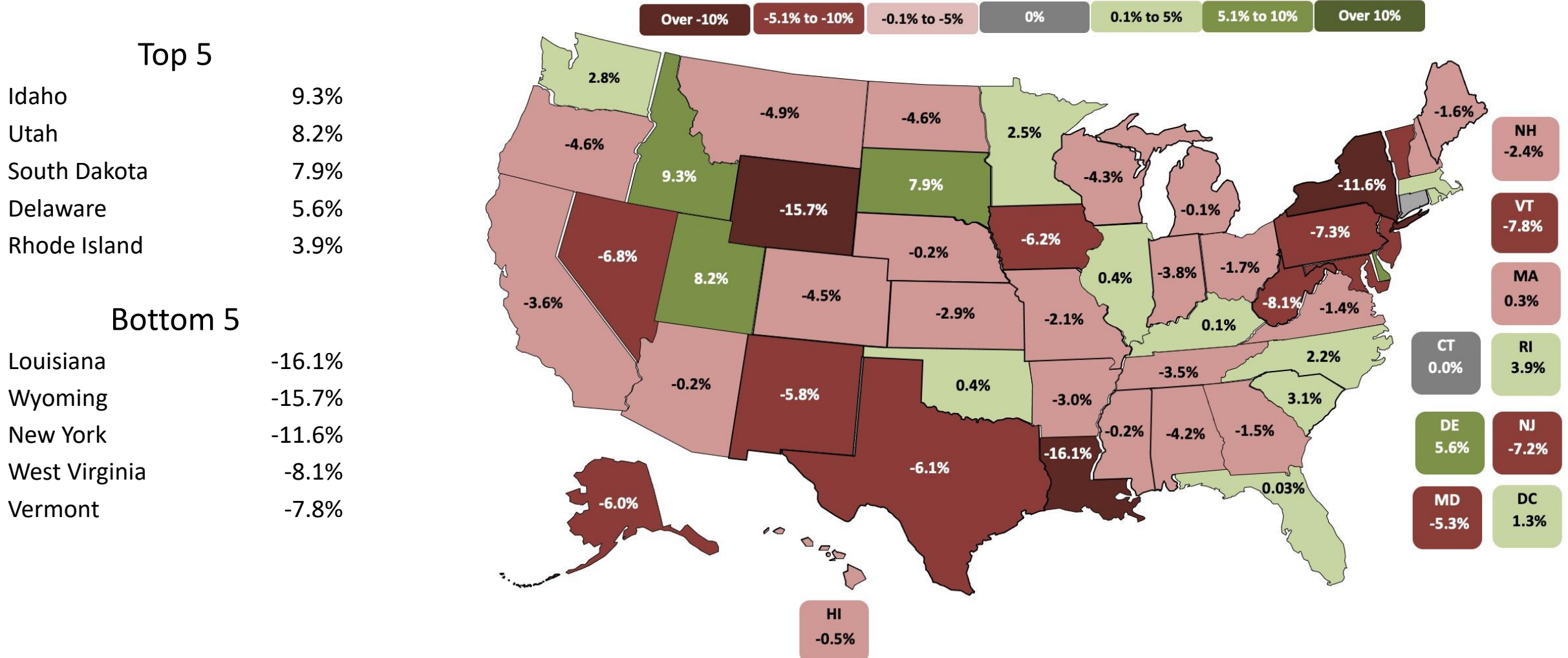
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Change to 10/21 from:



# State construction employment change, Feb. 2020–Sep. 2021

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

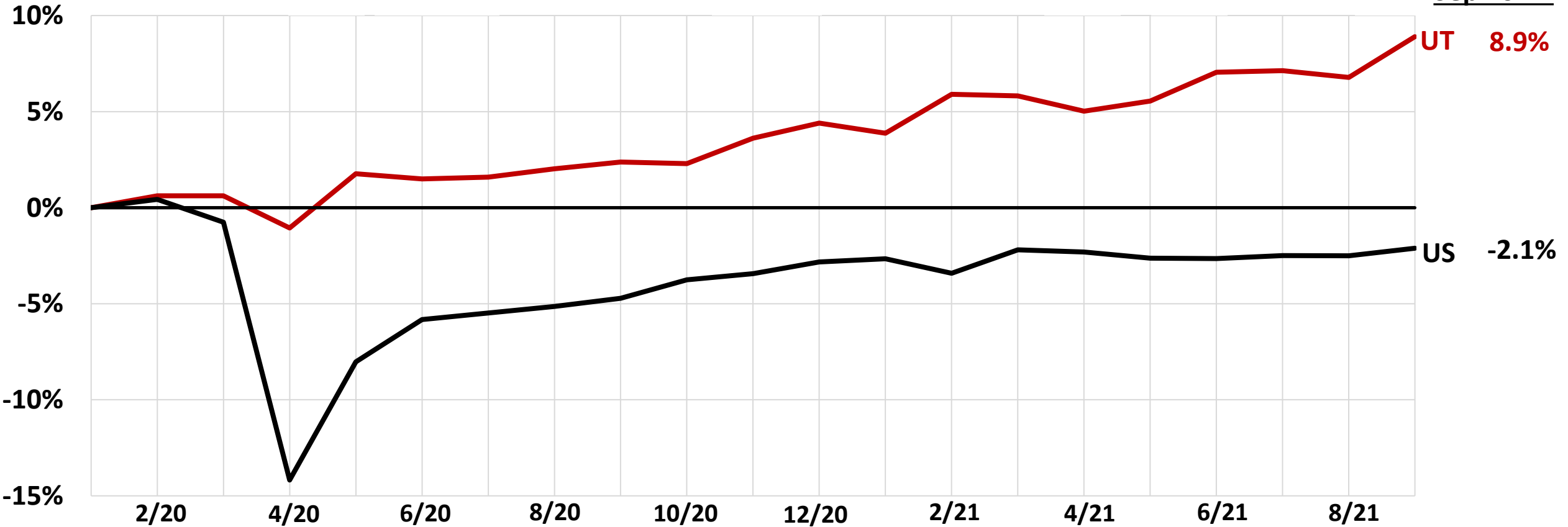


# US & UT Construction Employment

Cumulative change, Jan 2020-Sep 2021, seasonally adjusted

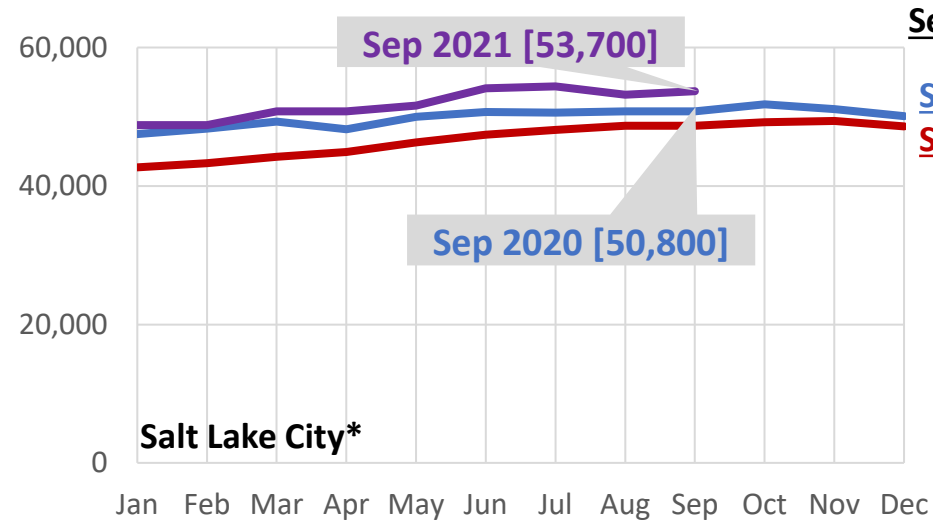


% change  
Jan 2020-  
Sep 2021:



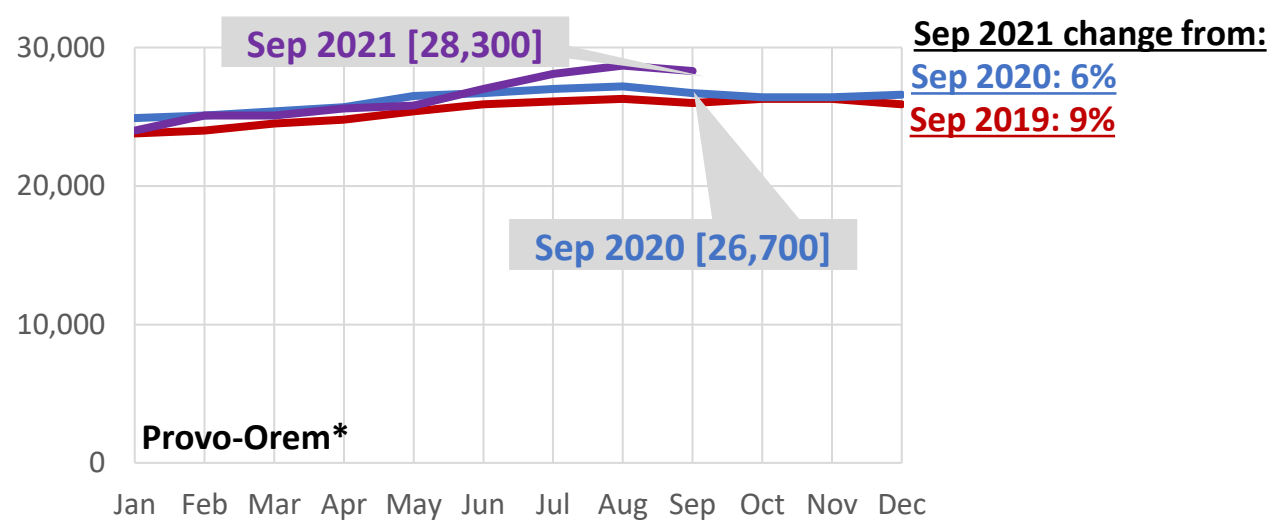
# Utah Metro Area Construction Employment

January 2019–September 2021, not seasonally adjusted



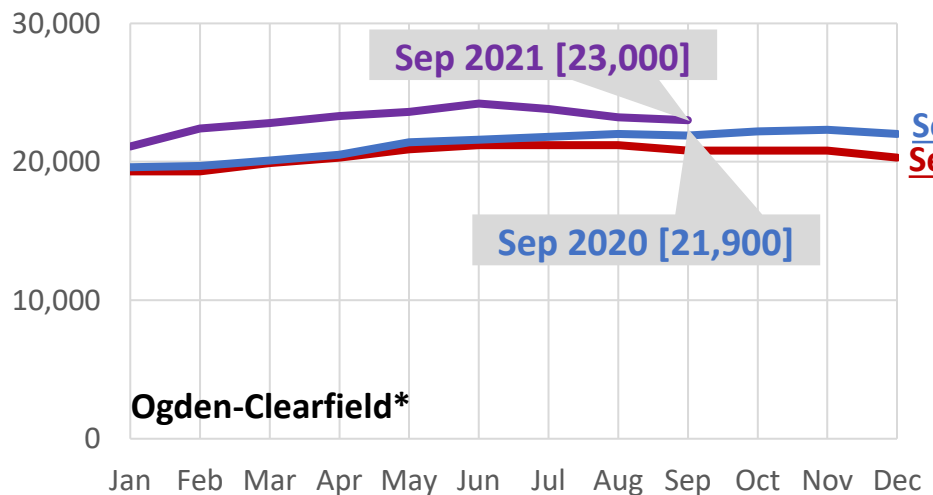
**Sep 2021 change from:**

Sep 2020: 6%  
Sep 2019: 10%

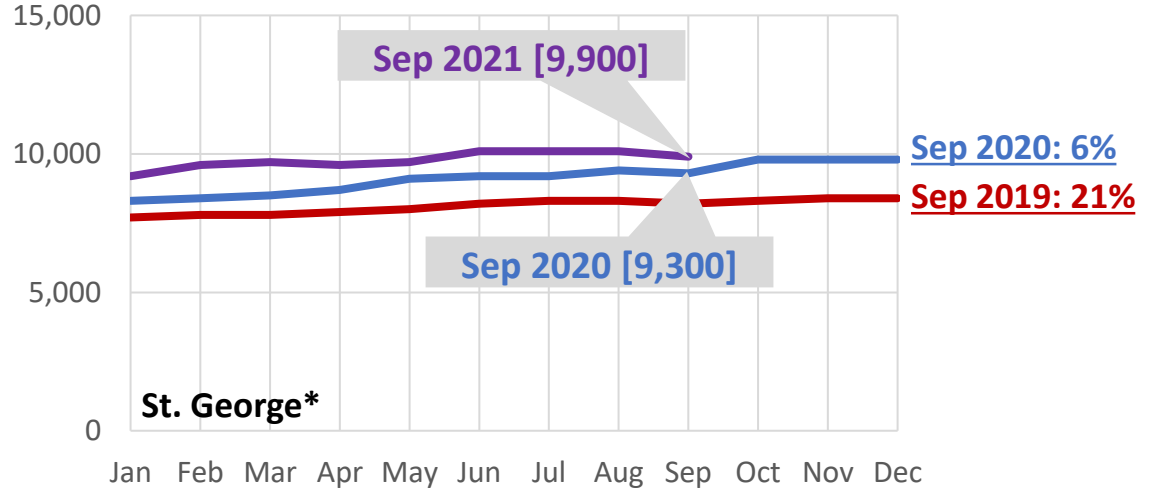


**Sep 2021 change from:**

Sep 2020: 6%  
Sep 2019: 9%



Sep 2020: 5%  
Sep 2019: 11%



Sep 2020: 6%  
Sep 2019: 21%

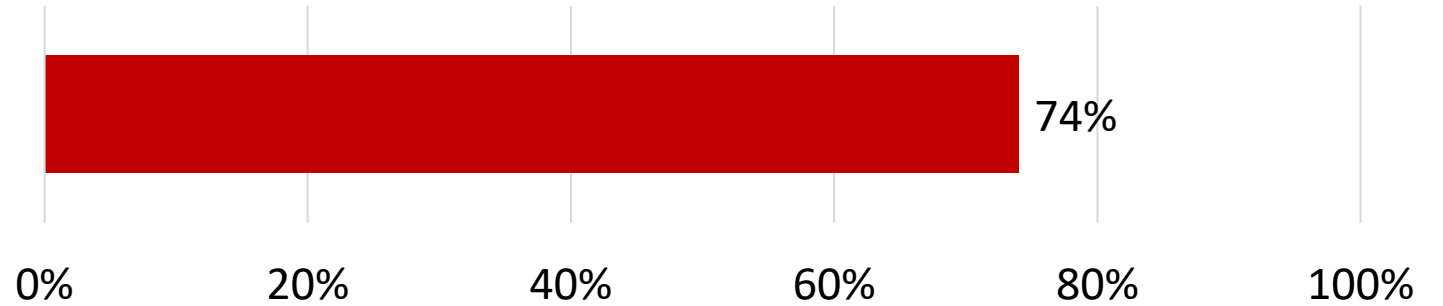
# 2021 AGC Workforce Survey Results

(responses: 2,136)



## Hiring expectation

Expect to hire in the next 12 months



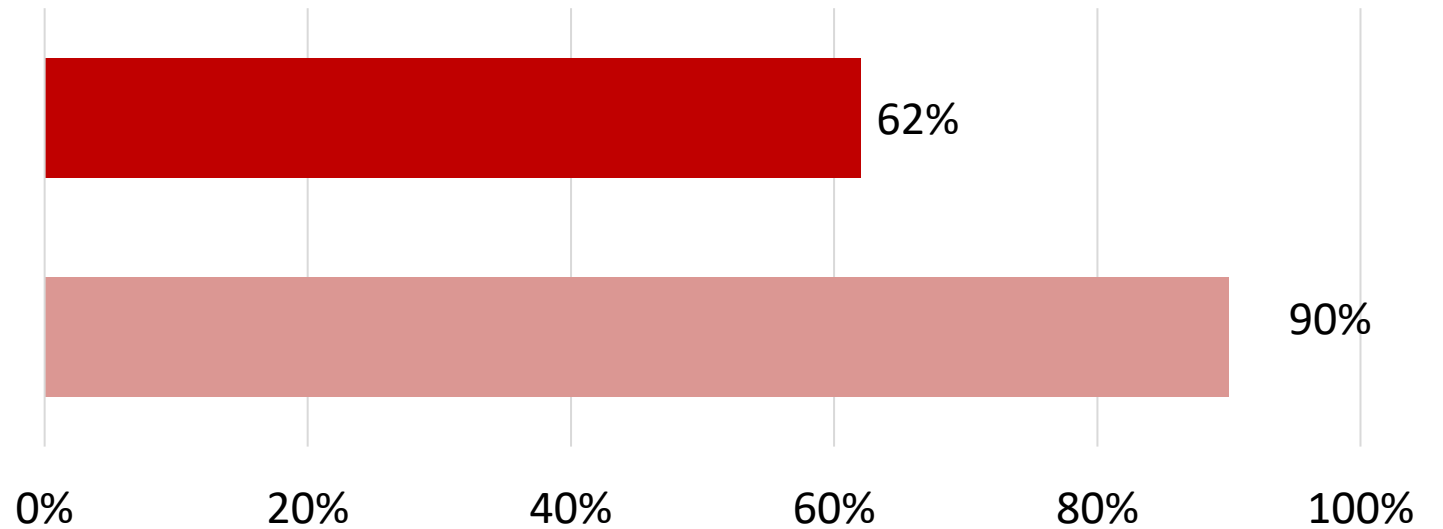
## Need to fill open positions

Salaried positions

62%

Hourly craft positions

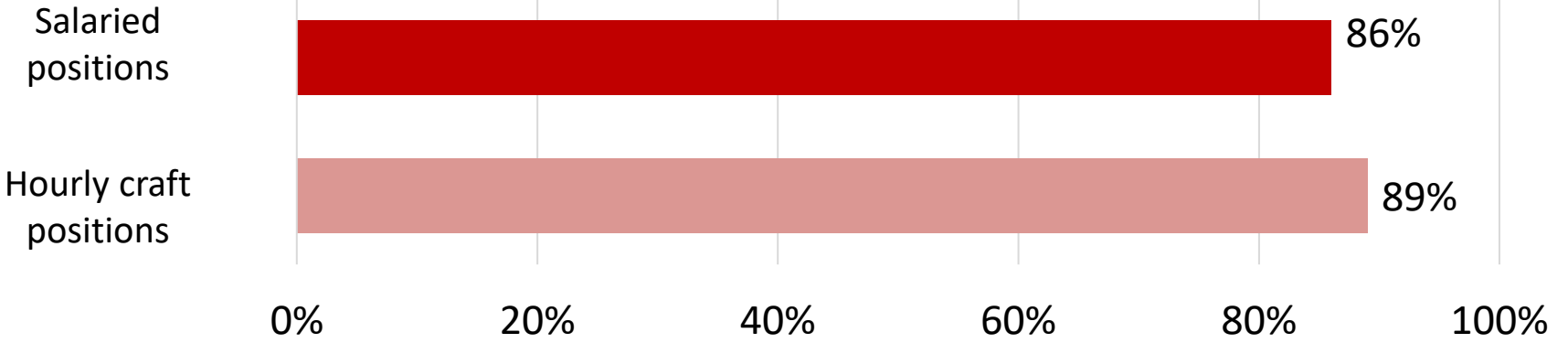
90%



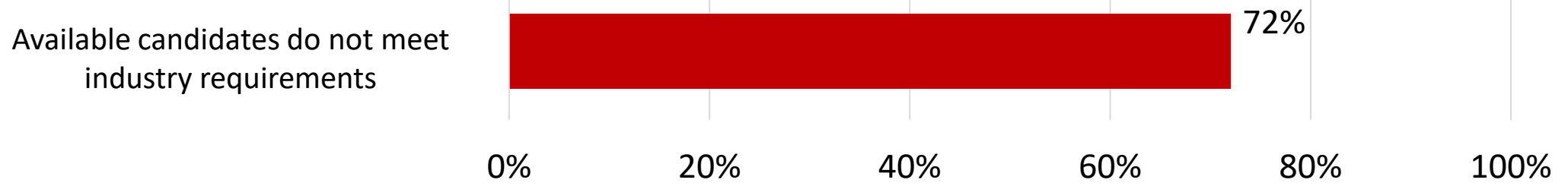
# 2021 AGC Workforce Survey Results



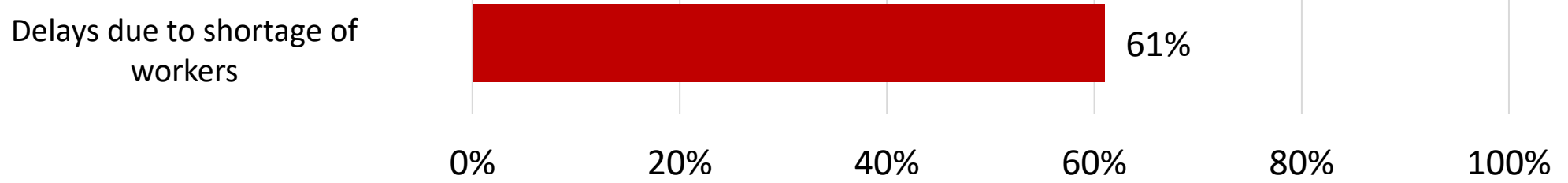
## We are having a hard time filling some or all positions



## Difficulty finding quality workers



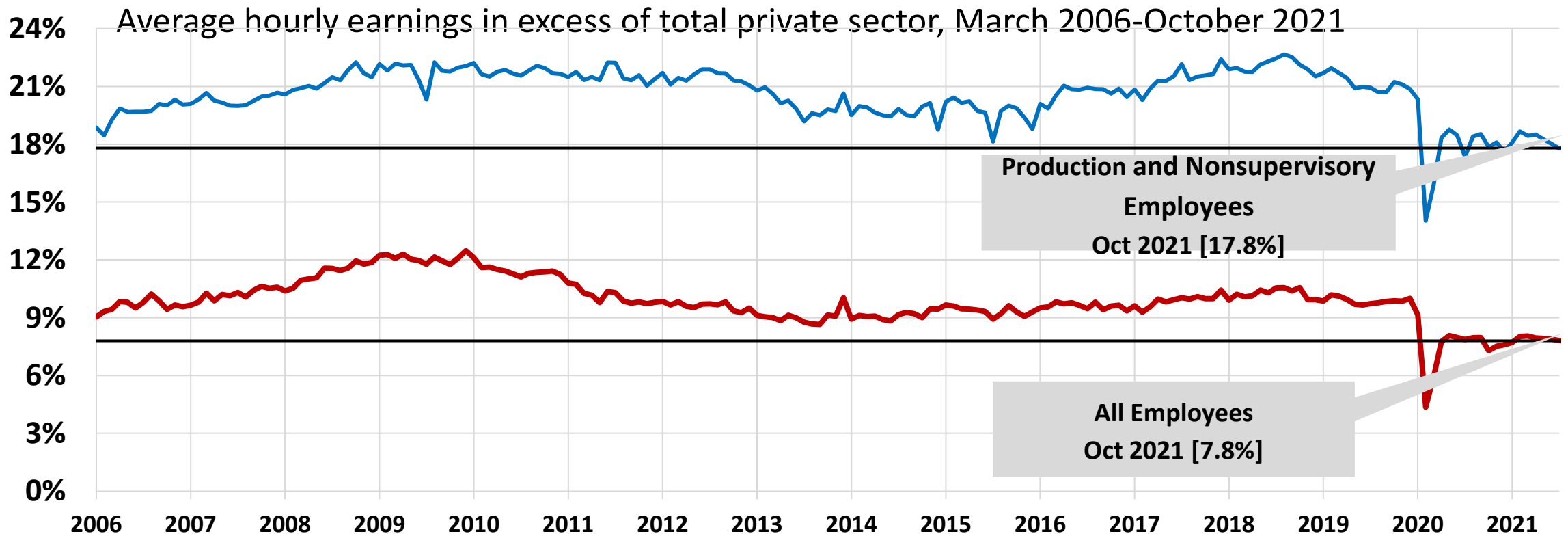
## Construction delays



## 2 concerns about construction worker supply



- Low vaccination rate: 53% for construction workers, 81% for other occupations
- “Premium” for construction wages relative to total private sector has shrunk
  - From 20-23% pre-pandemic to <18% for production & nonsupervisory employees
  - From 9-12% pre-pandemic to <8% for all employees





# Year-to-date construction spending: Jan-September 2021 vs. Jan-September 2020 (not seasonally adjusted)



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

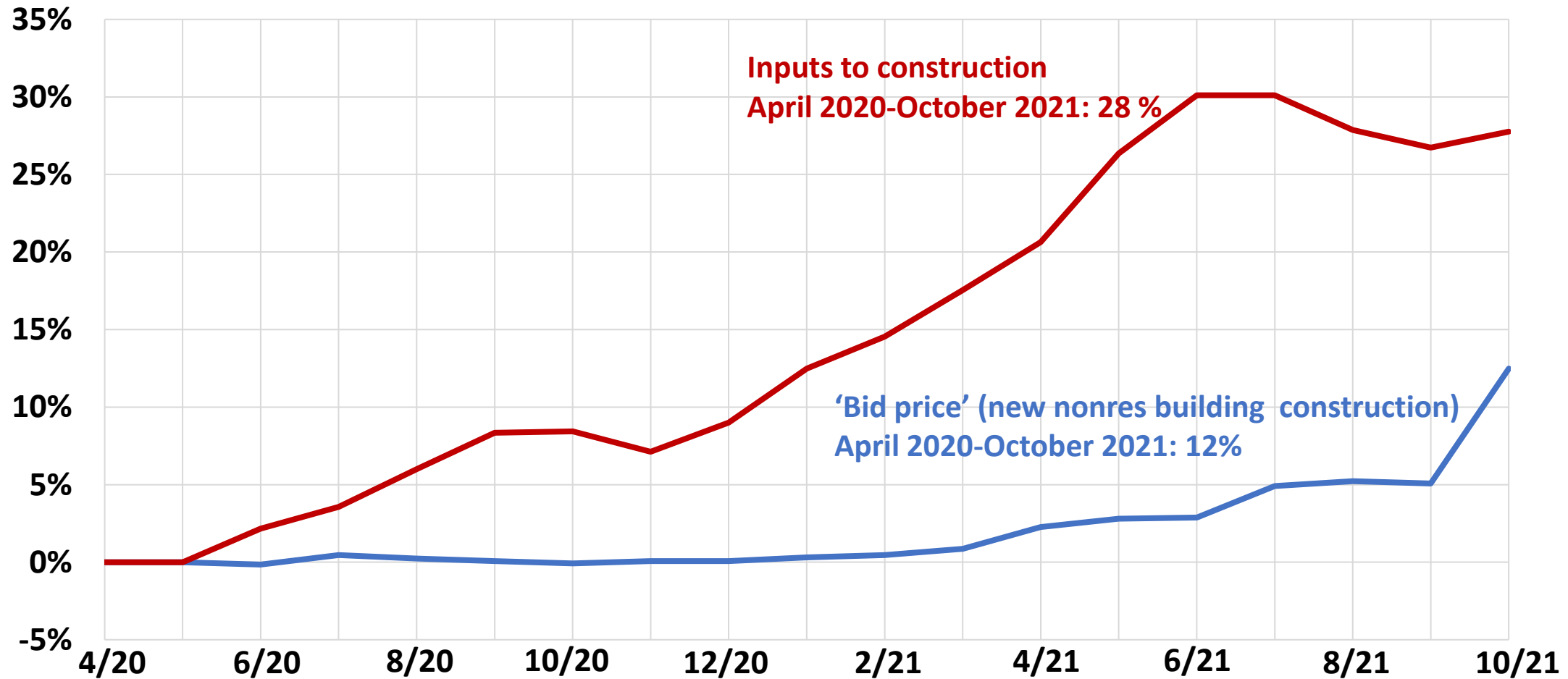
## Largest segments (in descending order of 2021 year-to-date spending)

- 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%



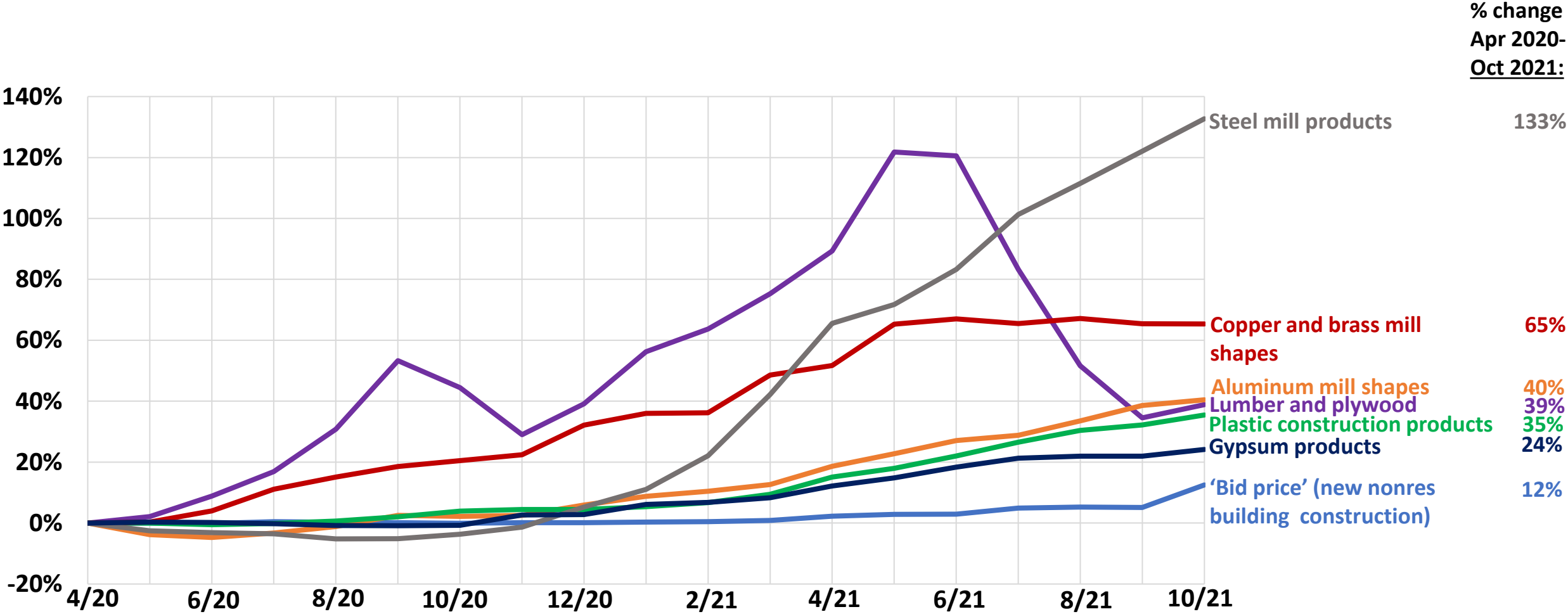
# Construction input and 'bid price' producer price indexes (PPIs)

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



# PPIs for construction and selected inputs

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

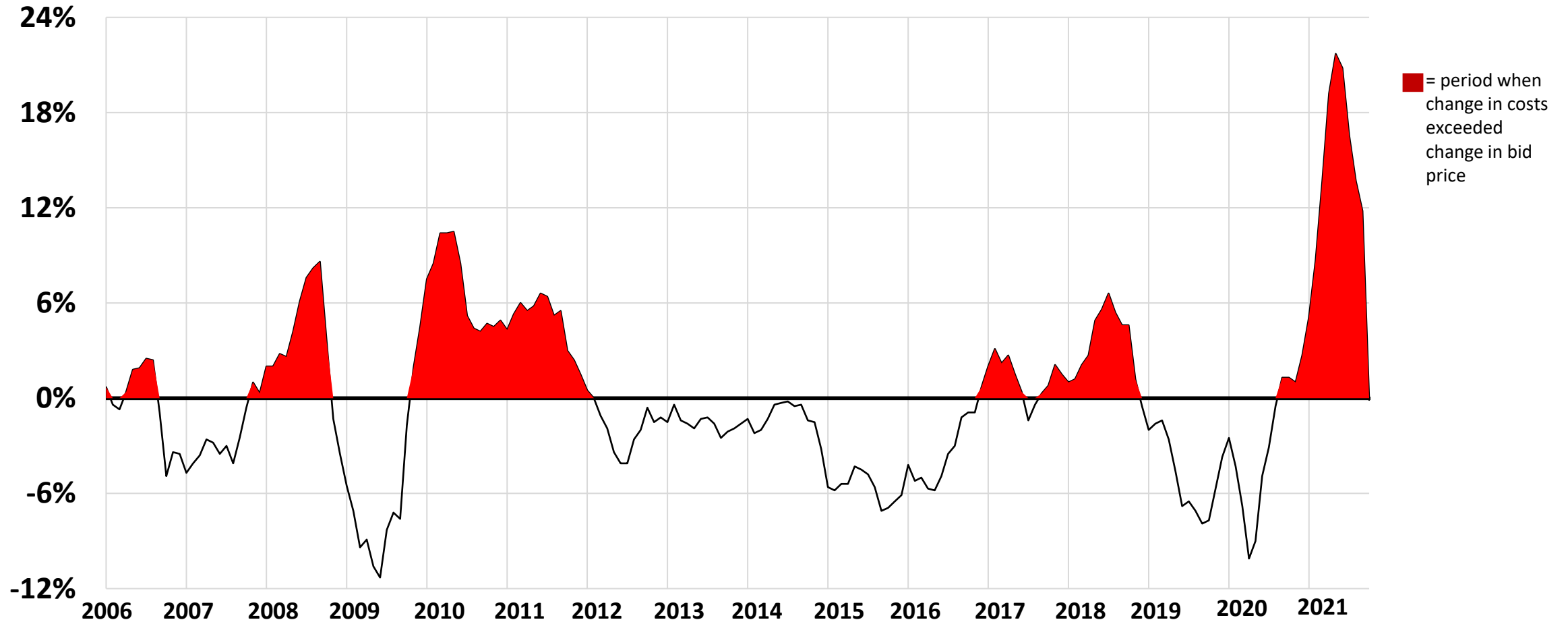


# Cost squeeze on contractors can last two years or more

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



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# AGC's responses to material cost and supply-chain issues



- *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/>
- Recording of webinar on “Soaring Material and Supply-Chain Costs and Delays”:  
<https://store.agc.org/Store/CSI/Store/Product List WebEds.aspx>
- Presentations to government contracting officials and owner groups
- Lobbying for tariff relief on lumber, steel, aluminum, and products
  - Presentation to National Economic Council, VP’s chief economist, Commerce chief economist
  - Presentations in coalitions to counselor to Commerce secretary, Senate & House trade staff

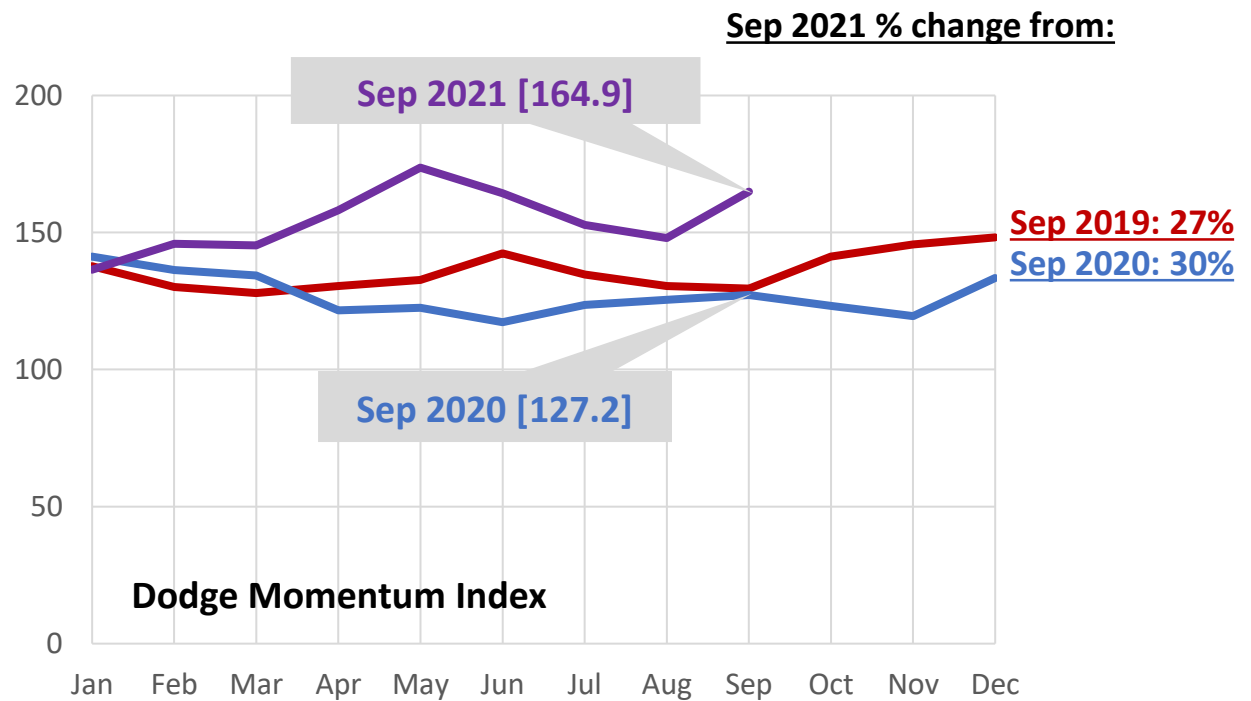
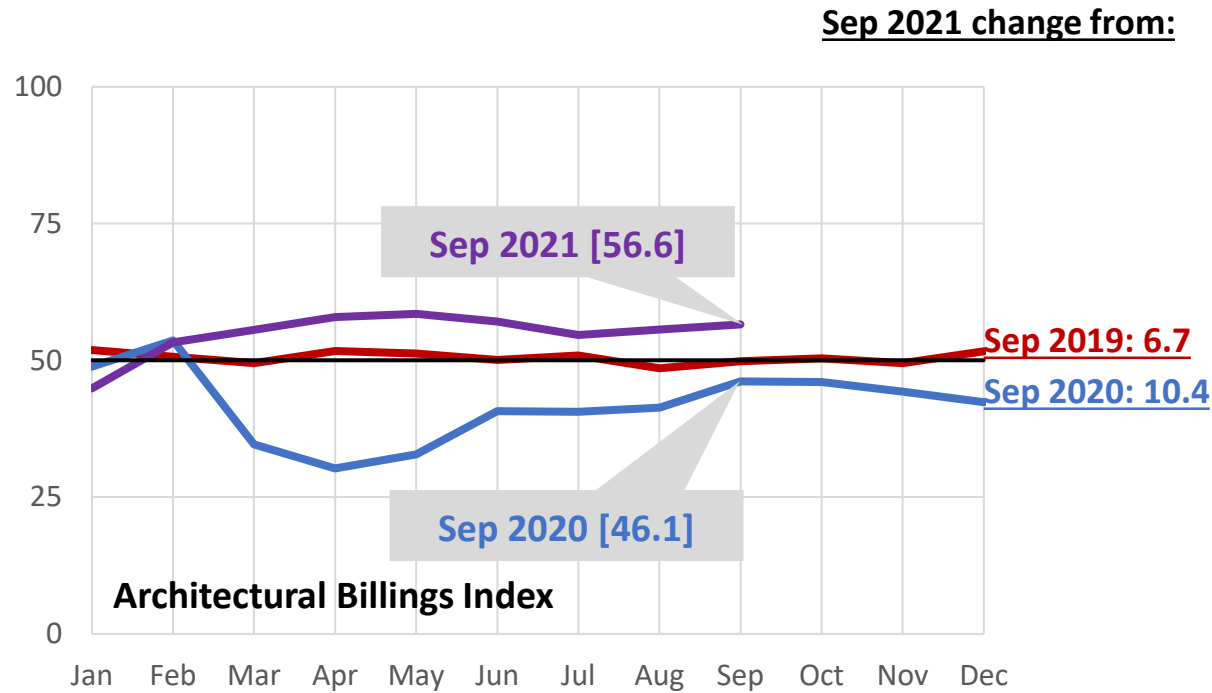
# Forward-looking indicators



<b>Indicator</b>	<b>Latest date</b>	<b>Current value</b>	<b>Year-ago value</b>
Architecture Billings Index (ABI)	Sept.	56.6	46.1
Dodge Momentum Index (DMI)	Oct.	181	123
Multifamily permits not yet started	Sept.	103,000	72,000

# Architecture Billings and Dodge Momentum Indexes

January 2019–September 2021, seasonally adjusted



# 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
- Infrastructure funds will take time to distribute and award to individual projects, muting the medium-term impact on labor and materials supply

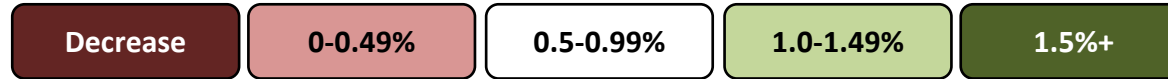


# Long-run construction outlook (post-pandemic)



- Slower population growth means slower demand growth for most construction
- Permanent shift from retail to e-commerce/distribution structures
- More specialized and online healthcare facilities; fewer hospitals, nursing homes
- More wind, solar, battery storage and charging facilities, and related manufacturing
- Less oil drilling and pipeline construction
- Continuing demand for K-12 but much less for higher ed construction
- Not clear if offices will decentralize or remain in less demand
- Not clear yet if urban/rural or state-to-state trends will change

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

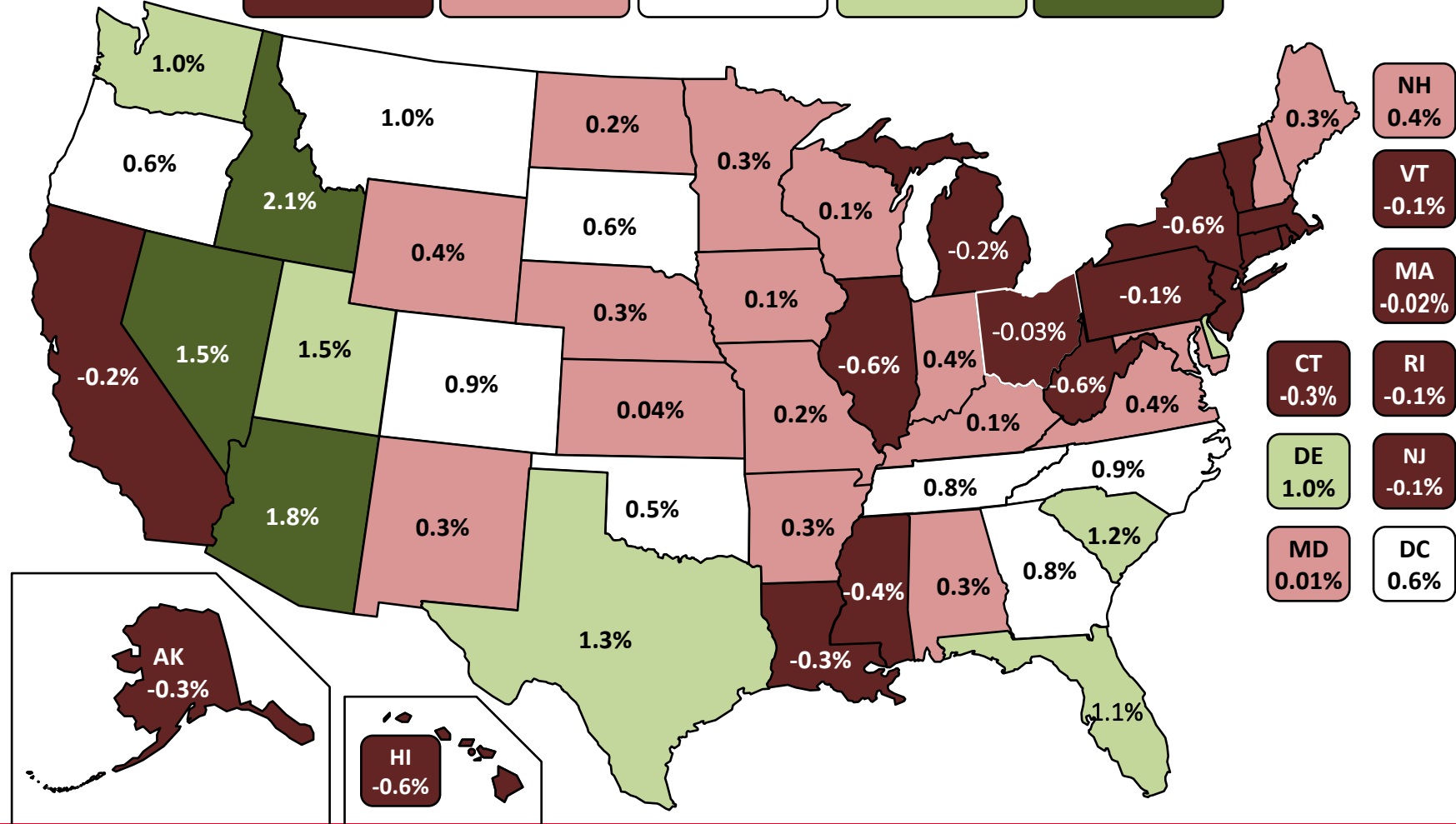


## Top 5

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%



# AGC economic resources

(email [ken.simonson@agc.org](mailto: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/>
- Surveys, state and metro data, fact sheets: [www.agc.org/learn/construction-data](http://www.agc.org/learn/construction-data)
- Monthly press releases: construction spending; producer price indexes; national, state, metro employment with rankings

