



September 27, 2021

U.S. Construction Outlook:

Pandemic Impacts, Policy Initiatives, Project Implications

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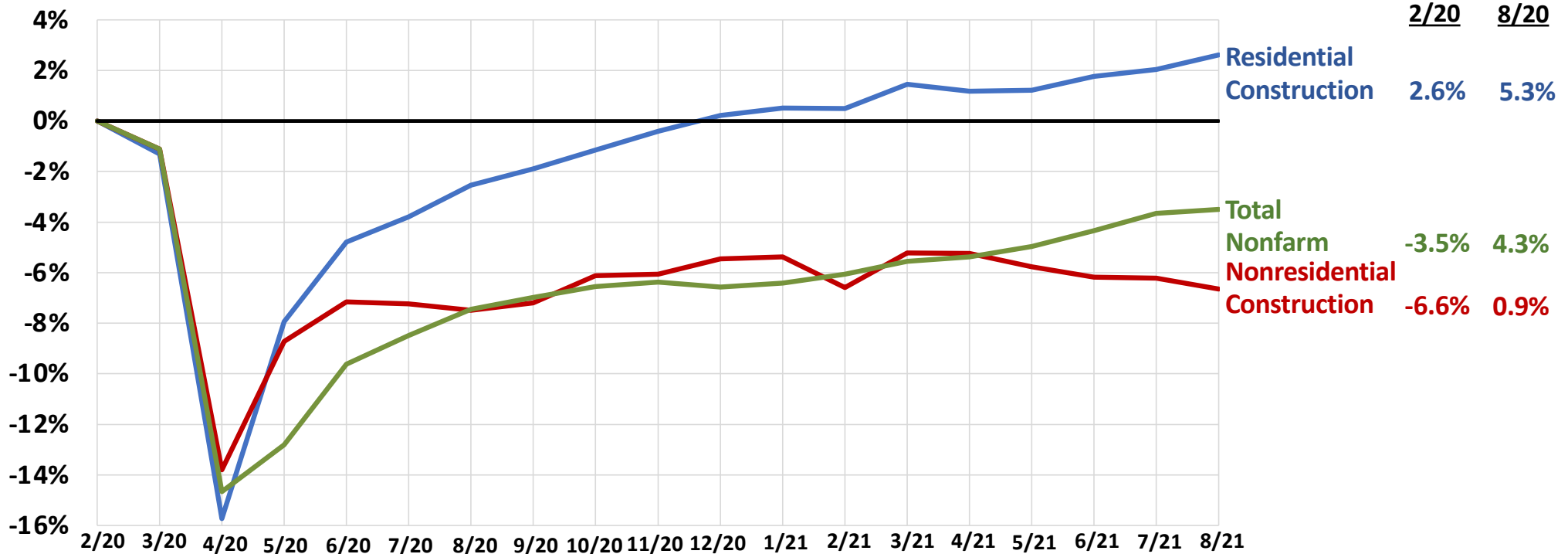
Total Nonfarm & Construction Employment, Feb. 2020–Aug. 2021

cumulative change (seasonally adjusted)



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Change to 8/21 from:



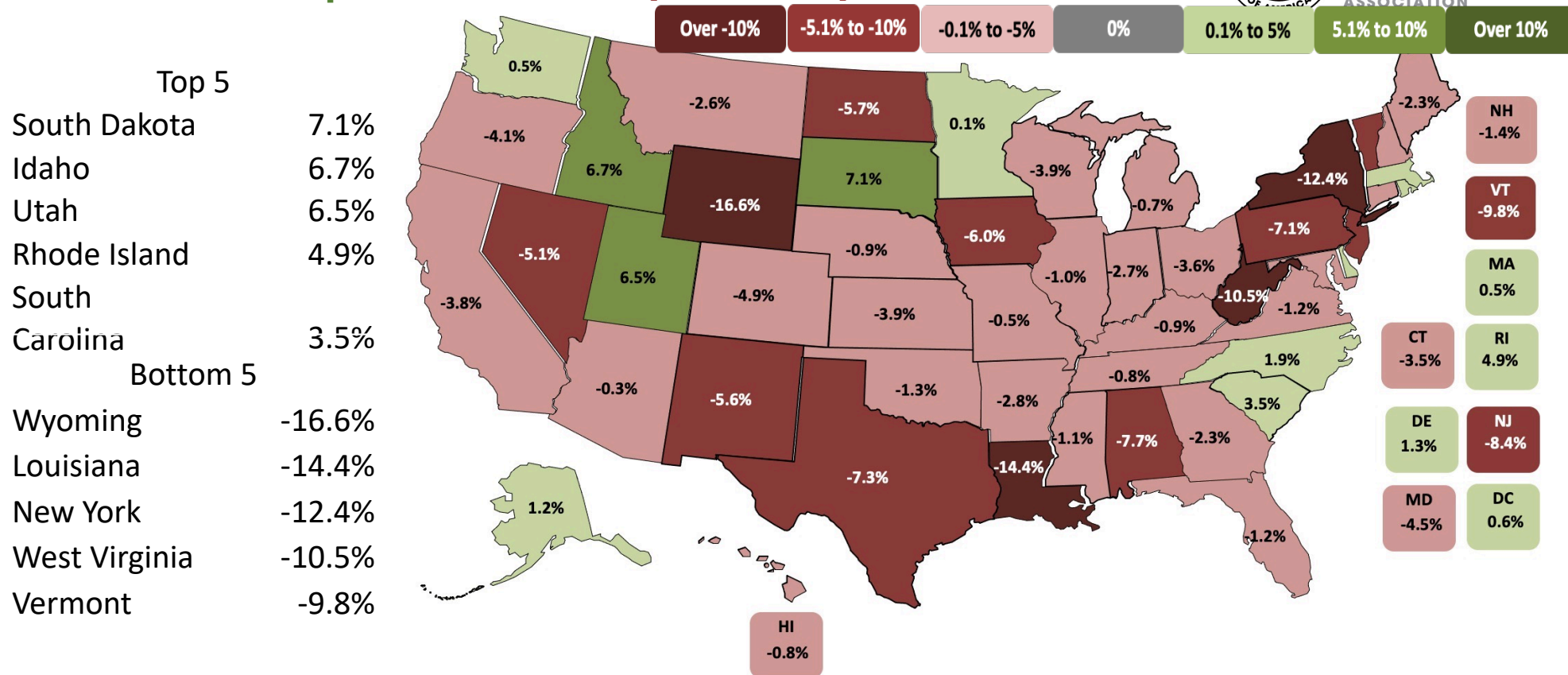
State construction employment change, Feb. 2020–August 2021

11 states and DC **up**, 39 states **down** (U.S.: -3.0%)



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Metro construction employment change, Aug. 2020–Aug. 2021

256 metros **up**, 37 metros **unchanged**, 65 metros **down** (U.S.: 2.5%)

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



Top 5 Areas

- 1 San Diego-Carlsbad, CA
- 2 Sacramento--Roseville--Arden-Arcade, CA
- 3 Pittsburgh, PA
- 4 Boston-Cambridge-Newton, MA NECTA Div.
- 5 St. Louis, MO-IL

12-month gains

- 90,300
- 79,800
- 67,500
- 78,500
- 73,500

Bottom 5 Areas

- 1 New York City, NY
- 2 Nassau County-Suffolk County, NY Div.
- 3 Miami-Miami Beach-Kendall, FL Div.
- 4 Calvert-Charles-Prince George's, MD
- 5 Houston-The Woodlands-Sugar Land, TX

12-month gains

- 8,600
- 5,100
- 3,200
- 2,400
- 2,300

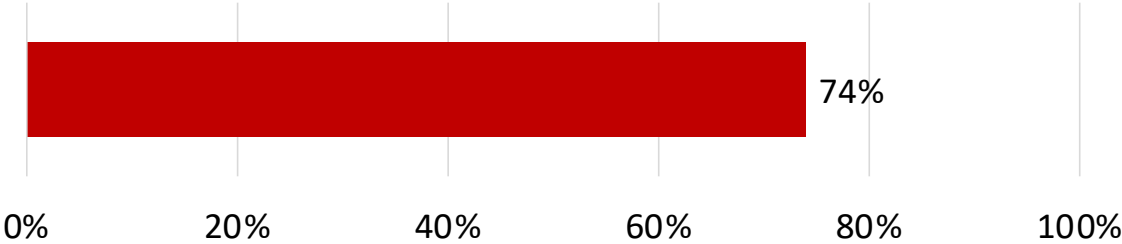
2021 AGC Workforce Survey Results

(responses: 2,136)



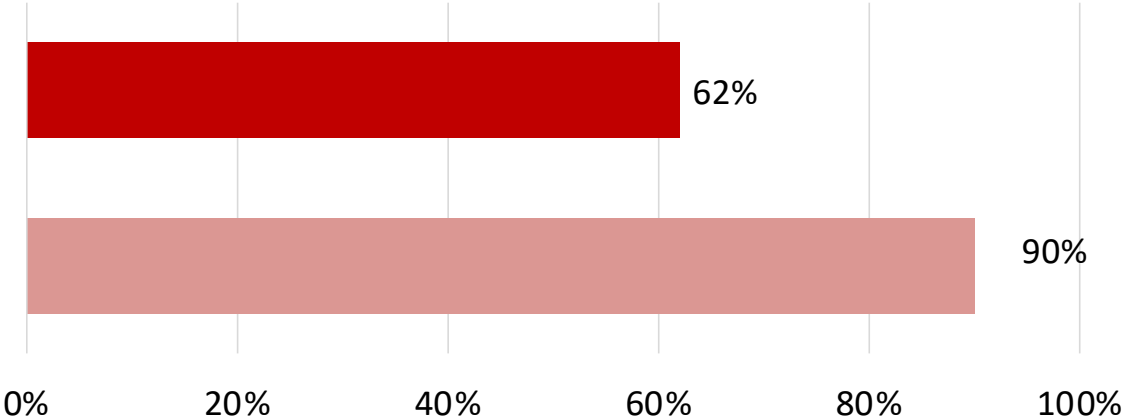
Hiring expectation

Expect to hire in the next 12 months



Need to fill open positions

Salaried positions

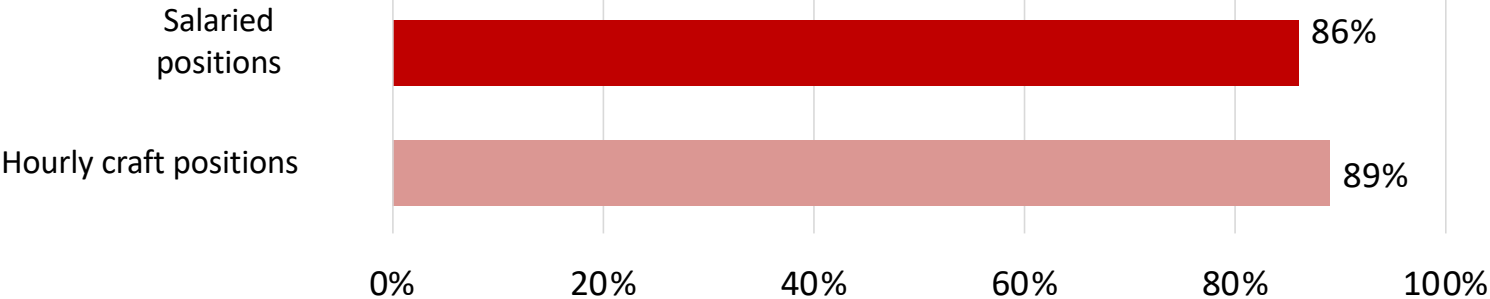


Hourly craft positions

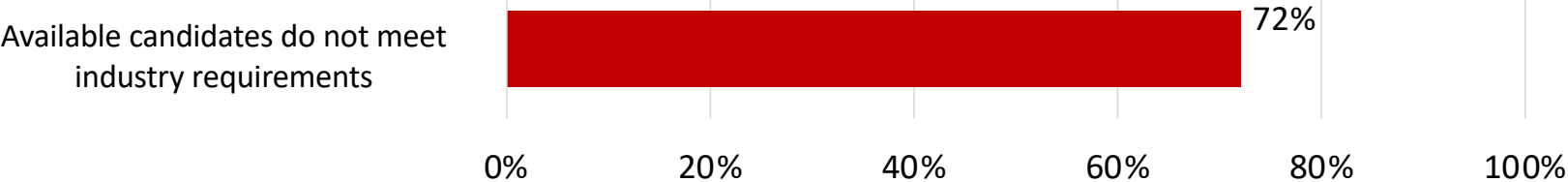
2021 AGC Workforce Survey Results



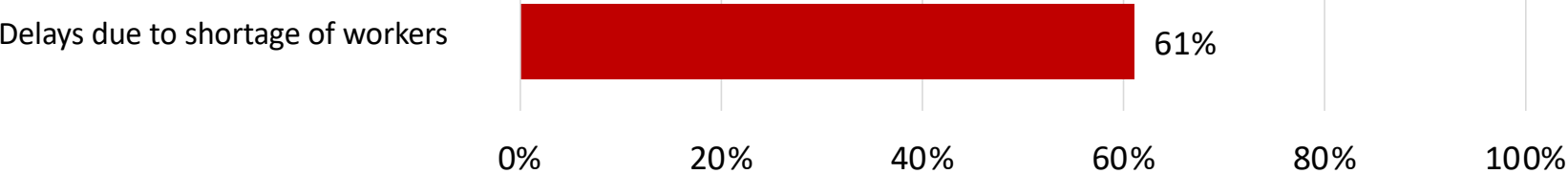
We are having a hard time filling some or all positions



Difficulty finding quality workers



Construction delays



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



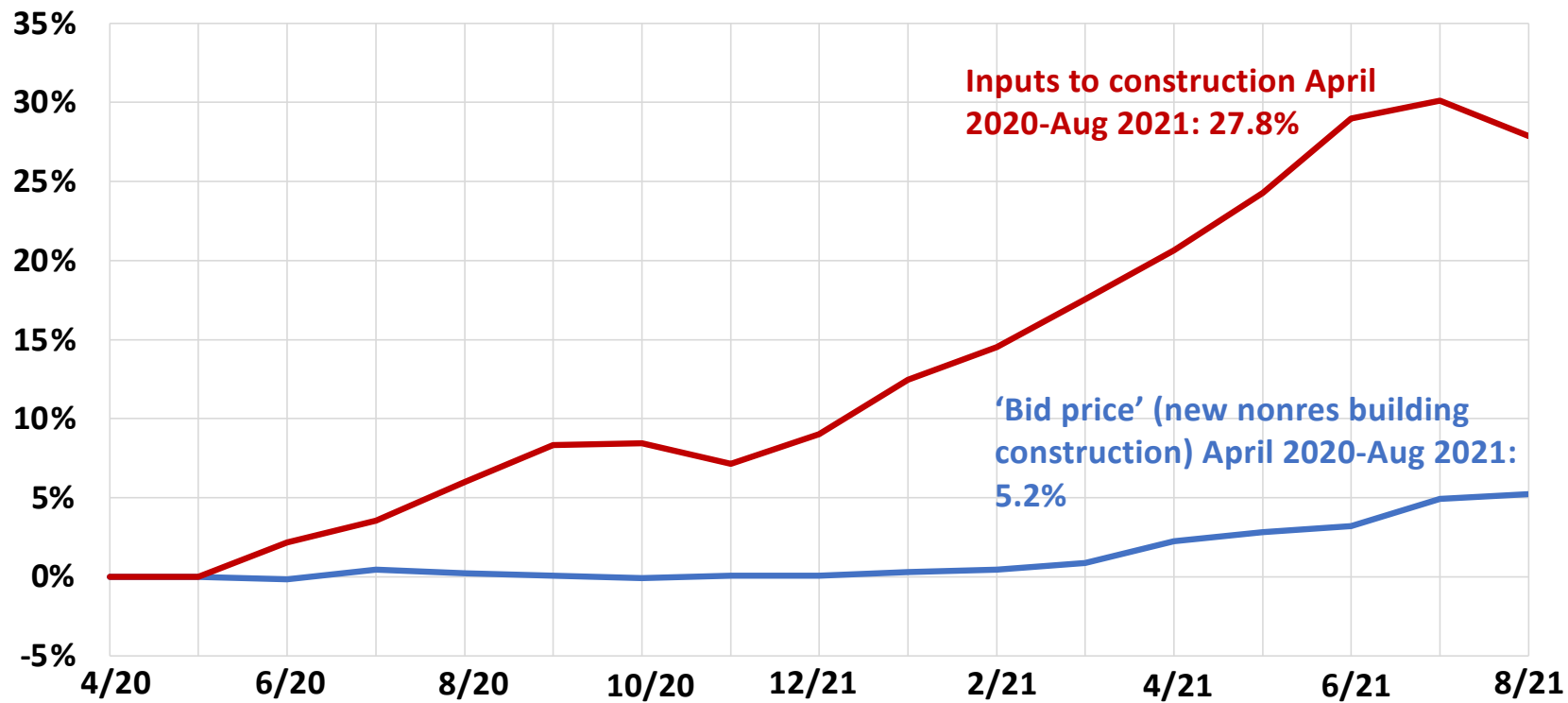
- Total 6%; private residential 26% (single-family 38%; multi 19%); private nonres -8%; public -7%

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

- Power -5% (electric -3%; oil/gas fields & pipelines -12%)
- Education -11% (primary/secondary -8%; higher ed -17%)
- Highway and street -5%
- Commercial -3% (warehouse 9%; retail -18%)
- Office -11%
- Mfg. -2% (chemical 7%; transp. equip. 6%; food/beverage/tobacco 13%; electronic/electric -18%)
- Transportation -6% (air -12%; freight rail/trucking -5%; mass transit 6%)
- Health care -2% (hospital 2%; medical building -7%; special care -3%)
- Lodging -30%

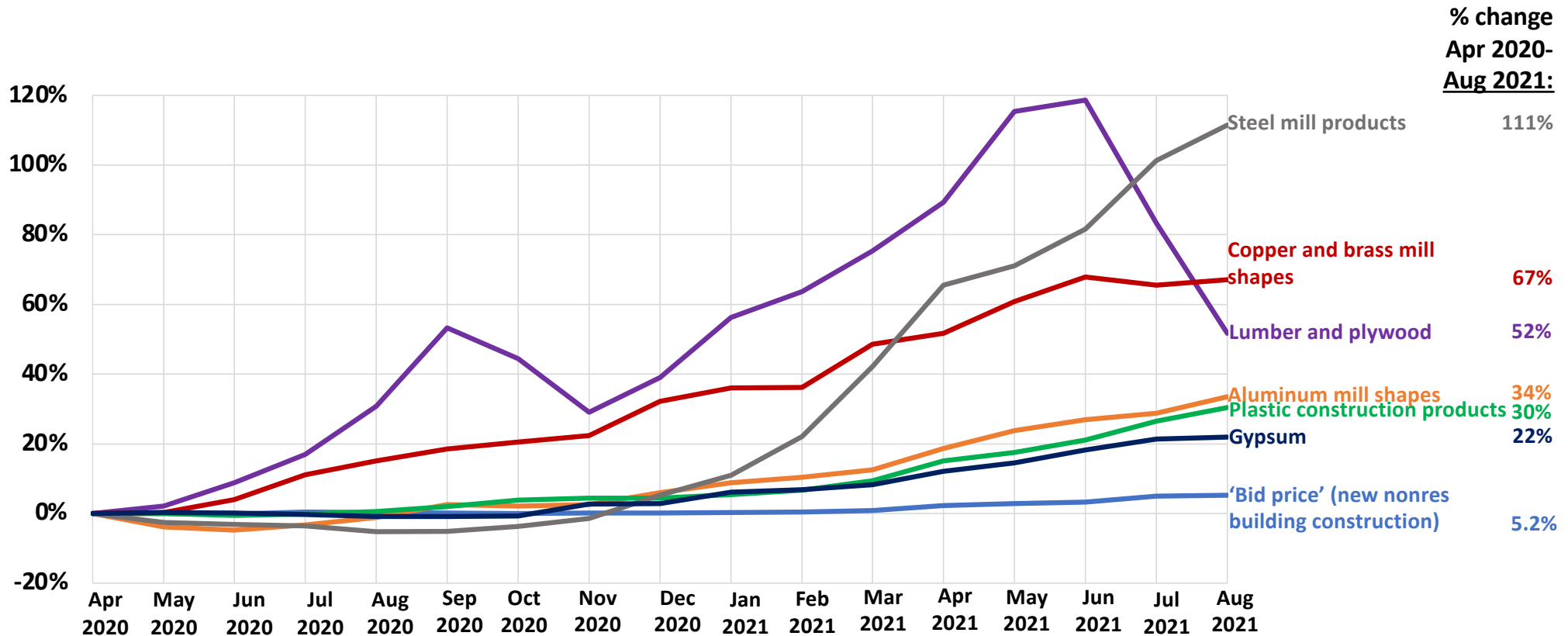
Construction input and 'bid price' producer price indexes (PPIs)

cumulative change in PPIs, April 2020–Aug 2021 (not seasonally adjusted)



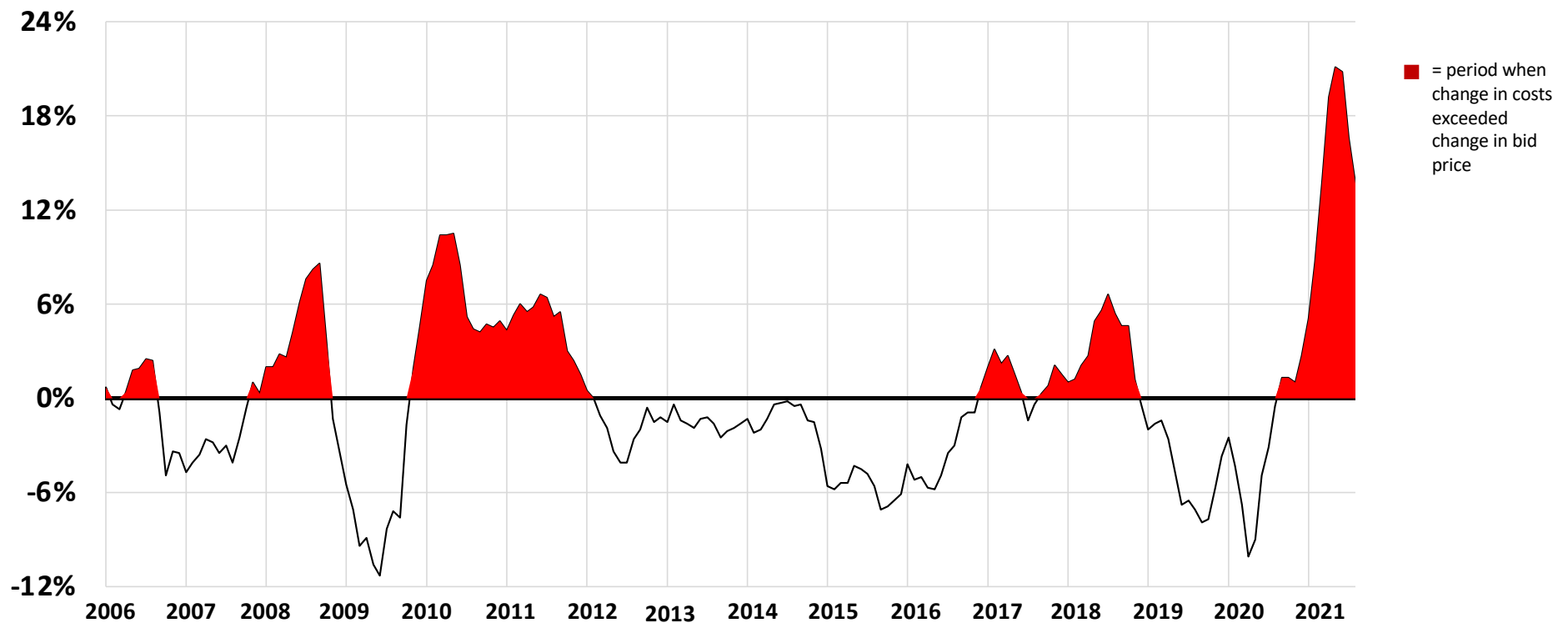
Price changes for construction and selected materials

April 2020- August 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–August 2021



¹⁰ Source: Bureau of Labor Statistics, www.bls.gov/ppi, producer price indexes for goods inputs to nonresidential construction (material costs) and new warehouse construction (bid prices) ©2021 The Associated General Contractors of America, Inc.

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



Indicator	Latest date	Current value	Year-ago value
Architecture Billings Index (ABI)	August	55.6	41.4
Dodge Momentum Index (DMI)	August	149	125
Multifamily permits not yet started	August	101,000	70,000

Medium-term impacts as recovery begins



- Economic recovery looks more certain but virus risks remain, especially for construction: vaccination rate = 57% for construction workers, 81% for other occupations
- 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
- Less demand than pre-crisis for retail, offices, higher ed, lodging & travel-related
- Unclear how states and localities will spend added tax revenue and federal dollars
- Senate infrastructure bill won't become law before October, if at all
- Best private prospects: remodeling, local distribution centers, data centers, restaurants

New + baseline construction-related funding included in the Senate infrastructure bill



Total: \$1.2 trillion, incl. \$304B (billion) to reauthorize FAST Act (\$69B increase over 5 years)

- \$351B (billion): roads, bridges (including FAST Act reauthorization)
- \$107B: transit
- \$102B: passenger and freight rail
- \$60B: water infrastructure
- \$45B: broadband
- \$20B: airports
- \$39B: public transit
- \$25B: airports
- \$17B: ports and waterways
- \$17B: power and grid
- \$7.5B: electric vehicle infrastructure

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



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/):
<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

