



AGC of America
THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Quality People. Quality Projects.



Construction Spending, Labor & Materials Outlook

February 21, 2017

Ken Simonson

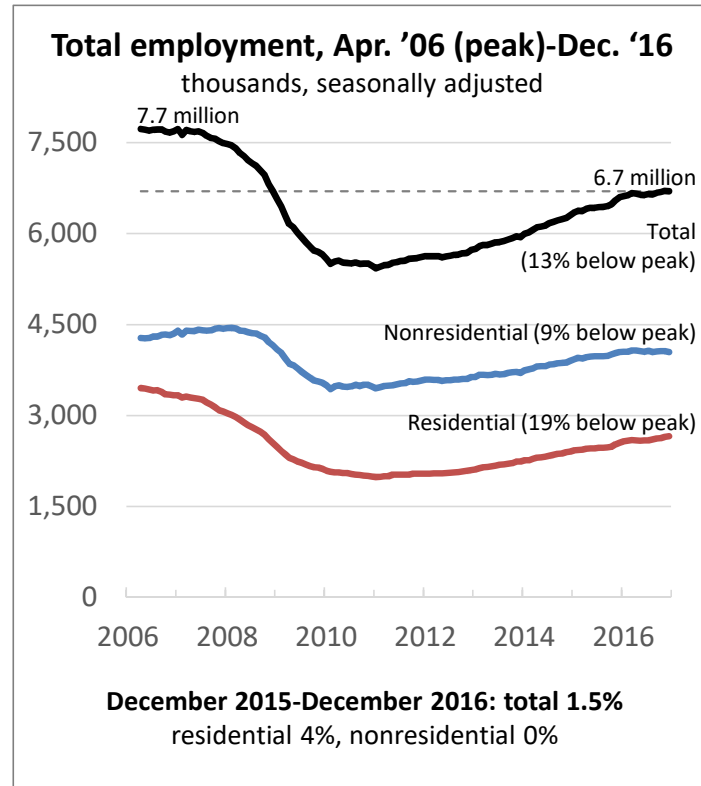
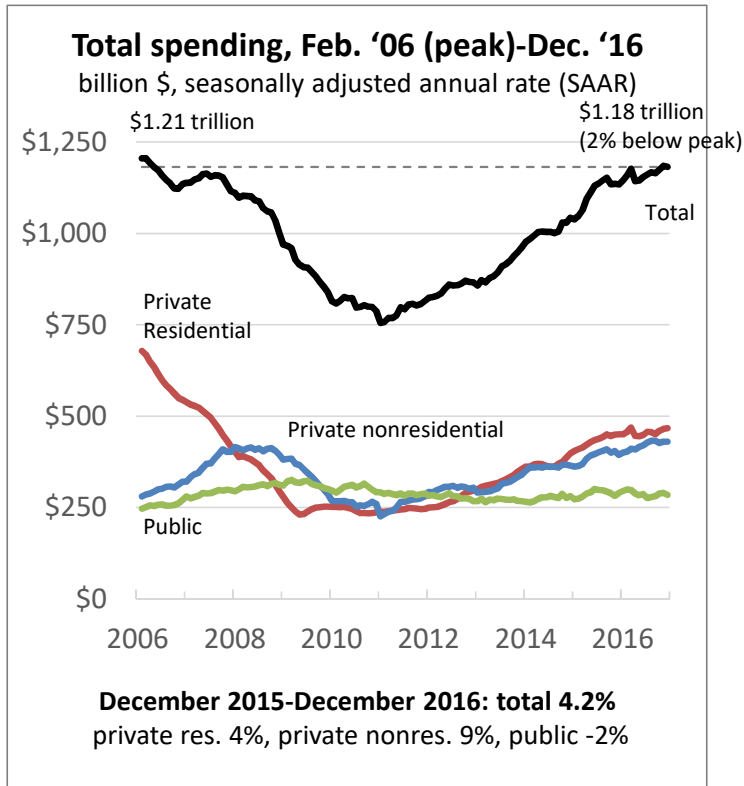
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Quality People.
Quality Projects.



Construction spending & employment, 2006-16



Source: Spending--U.S. Census Bureau; Employment--Bureau of Labor Statistics

Policy possibilities & uncertainties affecting construction

- Infrastructure: How much? How soon? What types? Funding source?
- Immigration: Impact on new & current workers? Wall construction?
- Trade: Higher materials costs? Shortages? Less or more factory const.?
- Regulatory relief: Which ones? How soon?
- Fiscal: Lower taxes? For whom? Bigger deficits? Implications for construction demand, labor supply?
- Monetary: Higher interest rates? Implications for construction costs?

AGC members' expectations for 2017 (1281 total responses)

Compared to 2016, do you expect the available dollar volume of projects you compete for in 2017 to be higher/lower/same?

	<u>% higher - % lower</u>
All projects	36%
Hospital; Retail, warehouse, lodging	23
Private office	20
Manufacturing	18
Highway; Public building	15
Higher education; K-12 school; Water/sewer	14
Multifamily; Other transportation (e.g., transit, rail, airport)	11
Power	10
Federal (e.g., VA, GSA, USACE, NAVFAC)	7

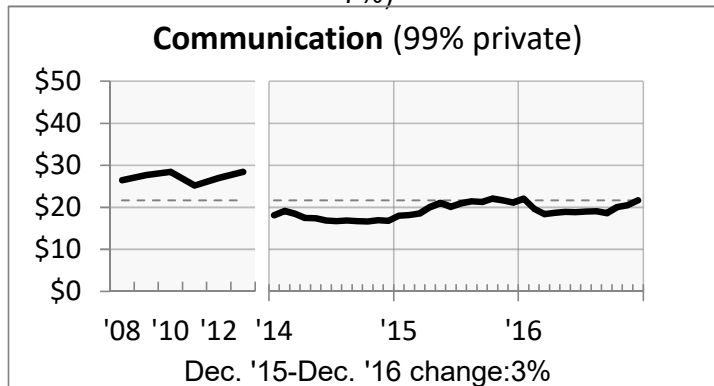
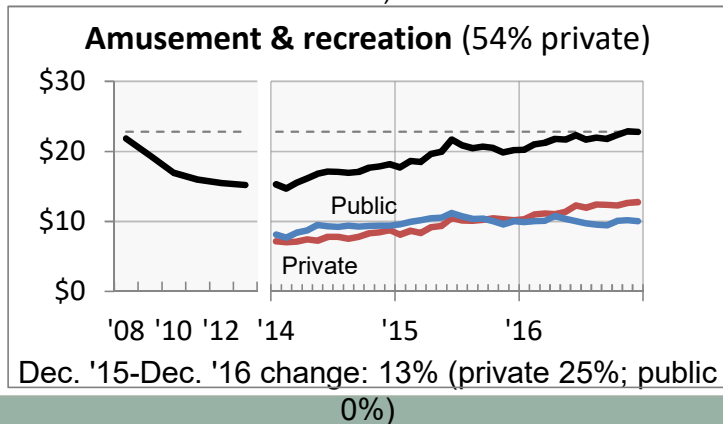
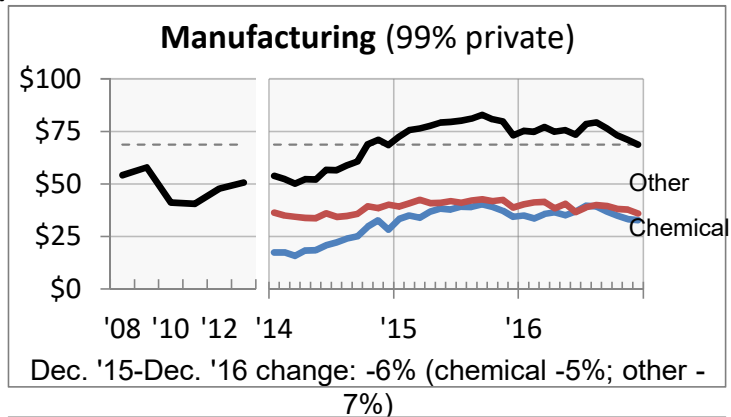
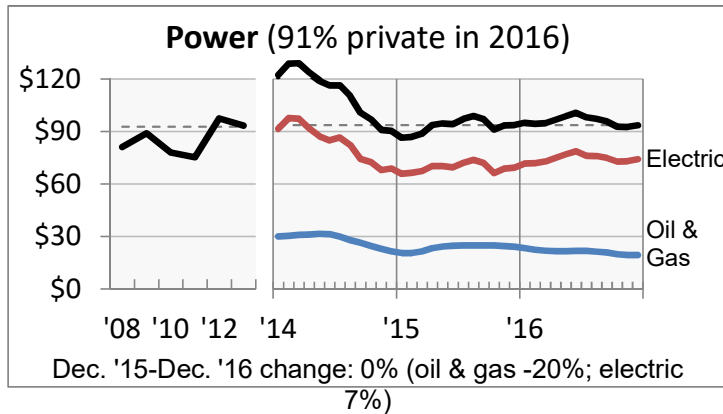
Nonresidential segments: 2014-16 change, 2017 forecast

	<u>2015 vs.</u> <u>2014</u>	<u>2016 vs.</u> <u>2015</u>	<u>2017</u> <u>forecast</u>
<u>Nonresidential total (public+private)</u>	<u>7 %</u>	<u>4%</u>	<u>2-6%</u>
Power (incl. oil & gas field structures, pipelines)	-16	3	5-10
Highway and street	6	2	2-5
Educational	5	6	3-7
Manufacturing	33	-4	<0
Commercial (retail, warehouse, farm)	6	11	0-5
Office	18	25	8-13
Transportation	8	-6	0-5
Health care	5	2	0-5
Lodging	30	25	~0
Sewage & waste disposal	5	-9	
Other--amusement; communication; religious; public safety; conservation; water: 6% of total	9	-1	

Source: U.S. Census Bureau construction spending report; Author's forecast

Construction spending: industrial, heavy

annual total, 2008-13; monthly, SAAR, 1/14-12/16; billion \$



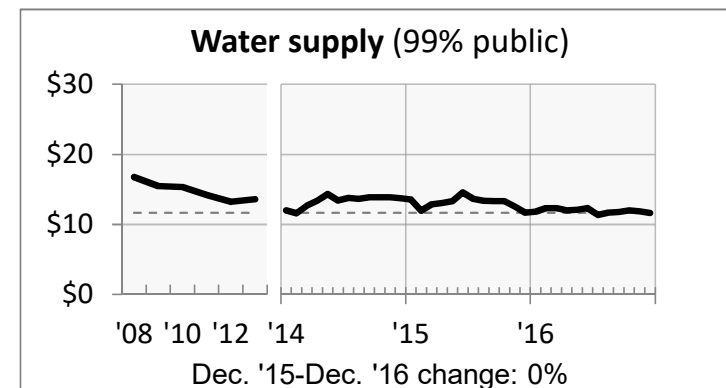
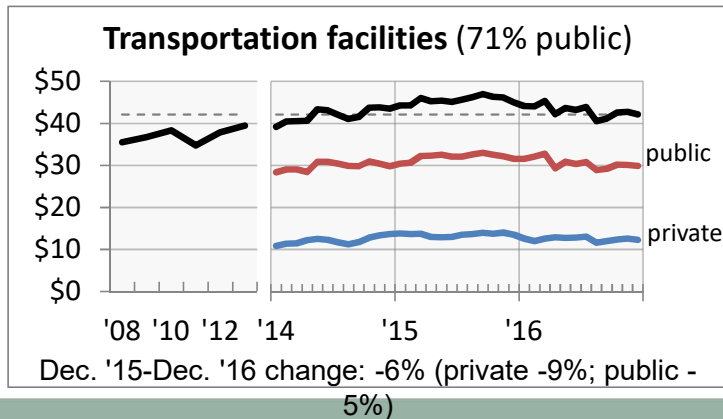
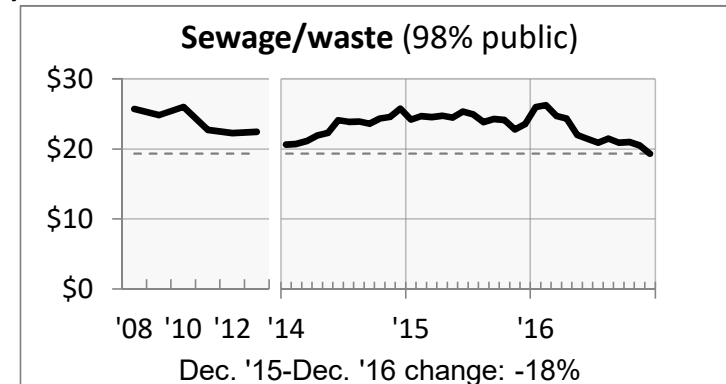
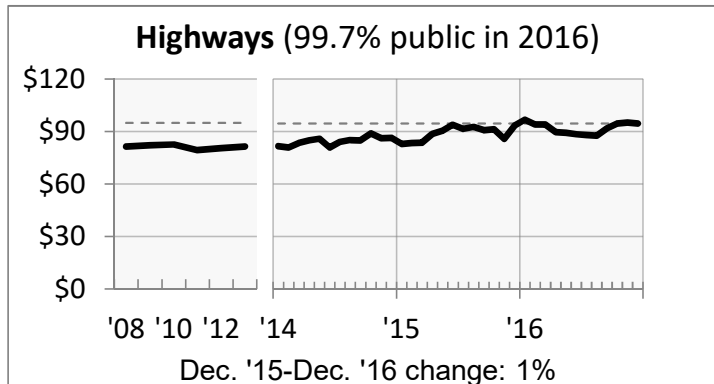
Source: U.S. Census Bureau construction spending report

Key points: power, manufacturing, recreation

- Solar, wind power are growing again; expect more gas-fired plants, natural gas pipelines into '18
- Mfg decline led by completion or delay of chemical plants (fertilizer, ethane crackers, petrochemicals, LNG) and transportation equipment (cars, trucks, jets, railcars)
- Amusement & recreation spending is very “lumpy”—a few big stadiums at irregular intervals; but funding for local, state, federal parks keeps eroding

Construction spending: public works

annual total, 2008-13; monthly, SAAR, 1/14-12/16; billion \$



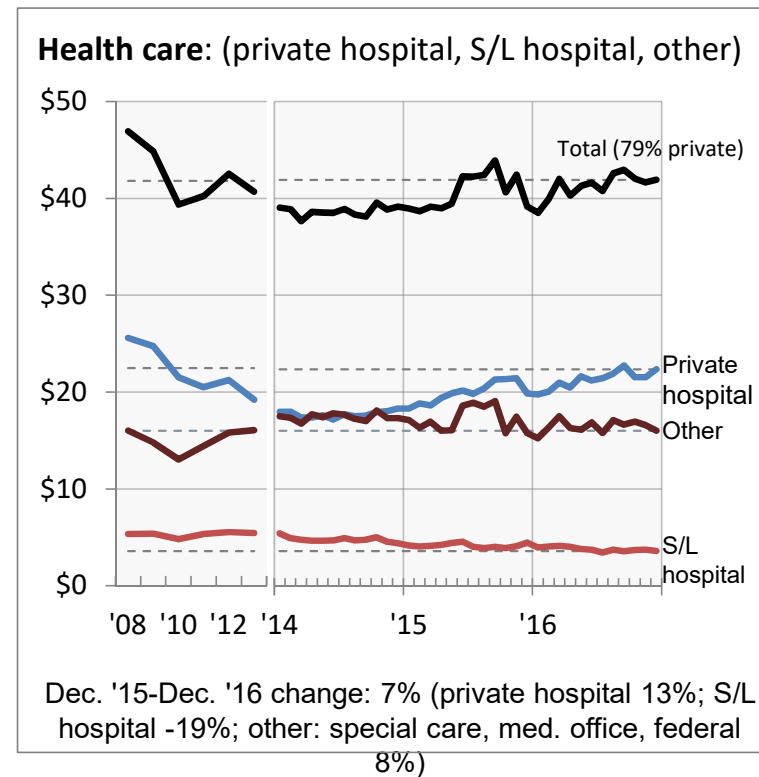
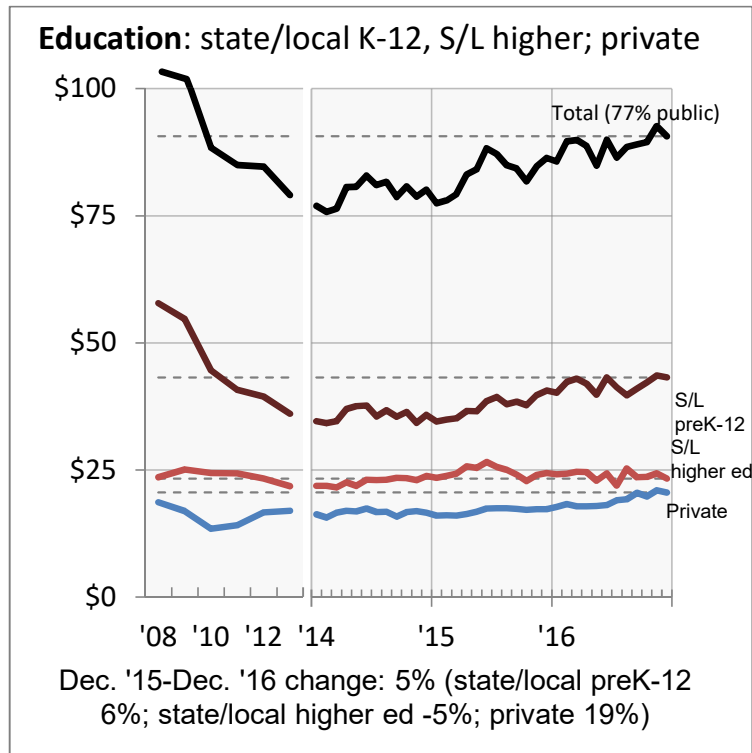
Source: U.S. Census Bureau construction spending report

Key points: roads, transportation, sewer/water

- Highway funds benefit from more travel, hence fuel purchases; gradual pick-up in state funding & P3s; higher federal funding unlikely before '18
- Railroads slashing investment; pickup in airport projects but no increase likely in port, transit construction funding
- Eastern & Midwestern cities under orders to make long-term upgrades to sewer systems that should boost spending; water utilities hurt by drought, conservation but may get money for lead abatement

Construction spending: education, health care

annual total, 2008-13; monthly, SAAR, 1/14-12/16; billion \$



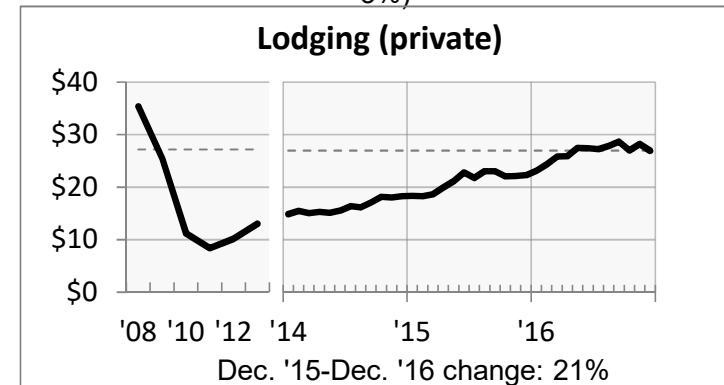
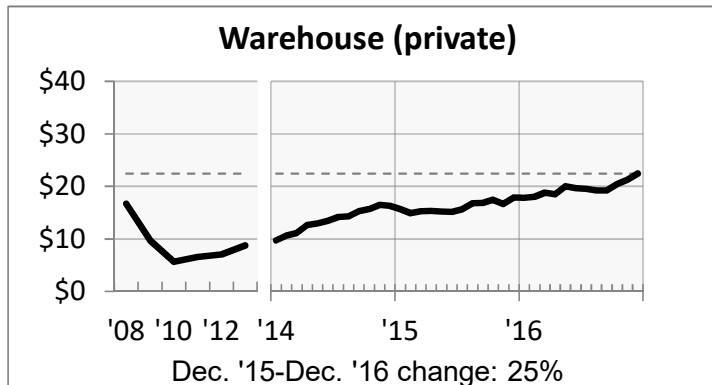
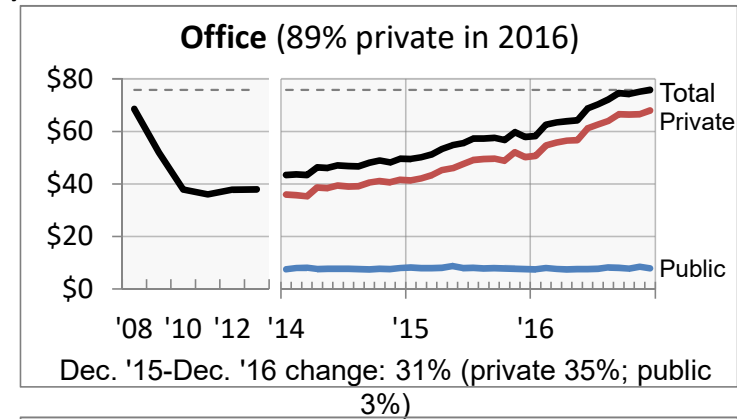
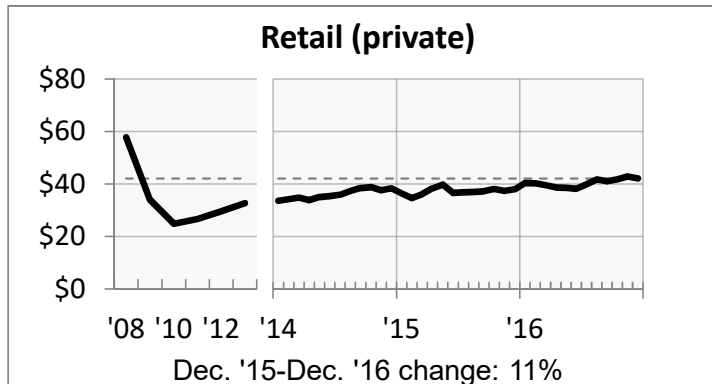
Source: U.S. Census Bureau construction spending report

Key points: education & health care

- Bond issues passed in 2014-16 should boost preK-12 projects in 2017
- Higher-ed enrollment declined 21% from 2011 to 2016, so colleges need fewer dorms & classrooms; apts. (multifamily) replacing dorms (educational construction)
- Hospitals face more competition from standalone urgent care, outpatient surgery, clinics in stores; also, renewed uncertainty about utilization and reimbursement rates if Affordable Care Act is repealed/modified/replaced

Construction spending: developer-financed

annual total, 2008-13; monthly, SAAR, 1/14-12/16; billion \$

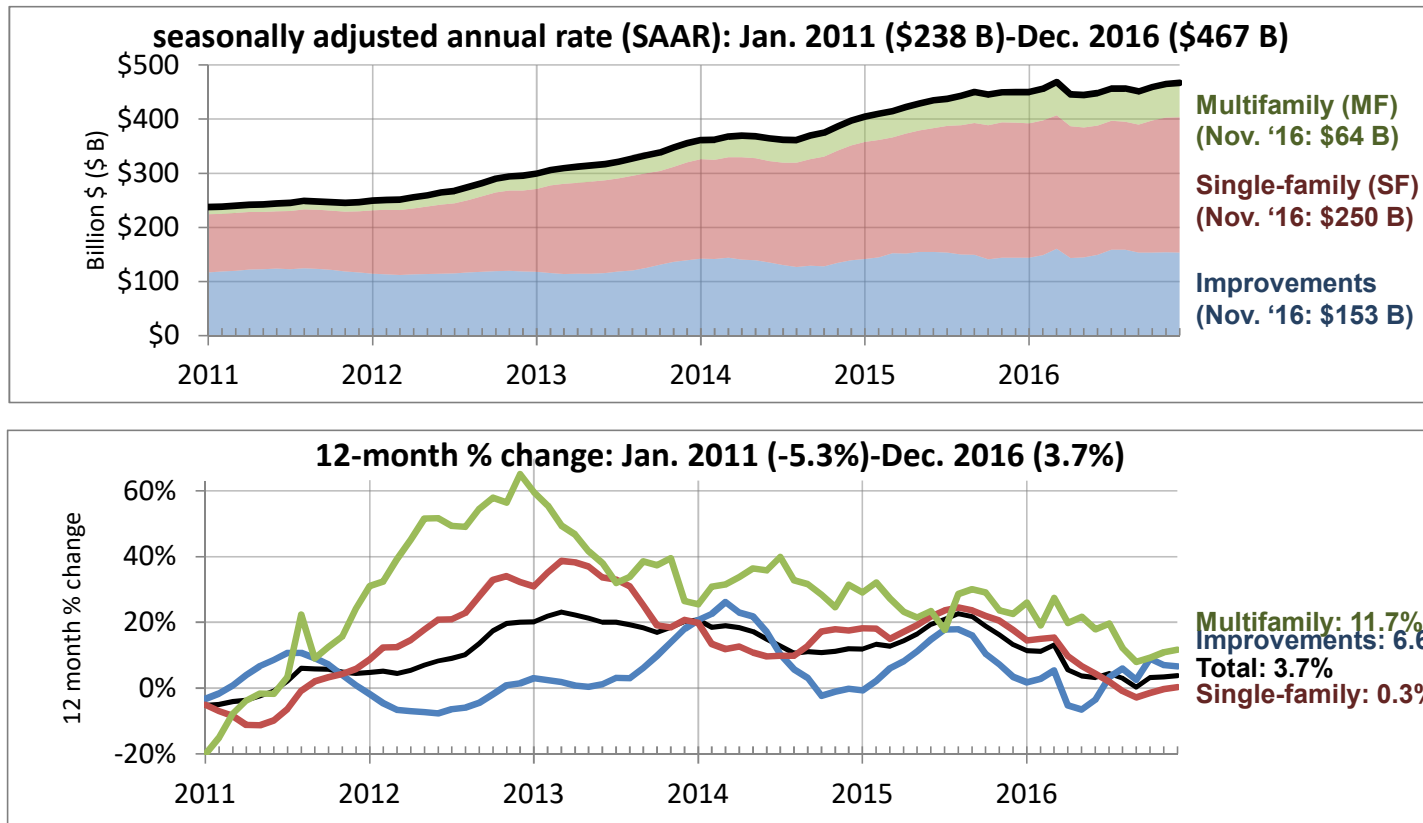


Source: U.S. Census Bureau construction spending report

Key points: retail, warehouse, office, hotel, data centers

- Retail now tied to mixed-use buildings & renovations, not standalone stores or shopping centers
- Warehouse market still benefiting from e-commerce; more local than huge regional distribution centers likely in future
- Record employment each month but office space per employee keeps shrinking; more urban & renovation work than suburban office parks
- Hotel construction likely to drop as revenue per available room slows
- Data centers remain a strong niche but no data available on how strong

Private residential spending: MF continues to outpace SF

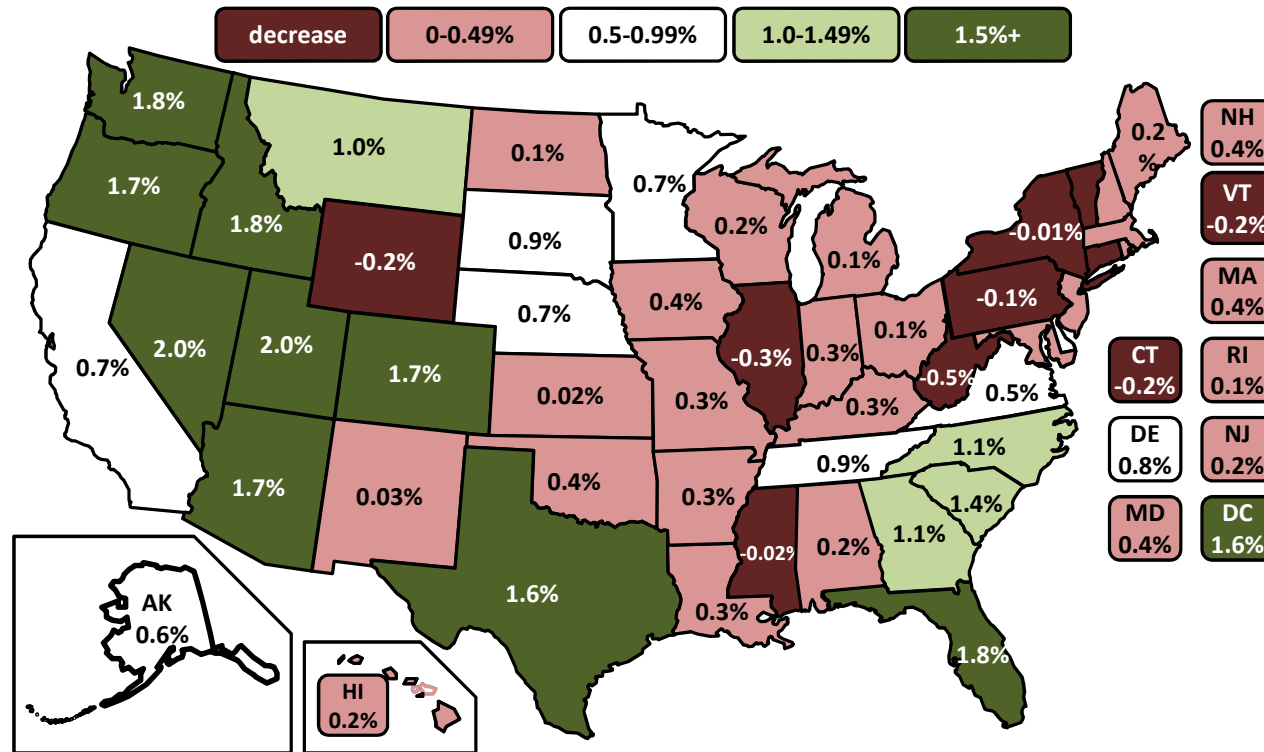


Source: U.S. Census Bureau construction spending reports

Private residential spending 2016: 5%; 2017 forecast: 5-10%

- SF: 4% in 2016, **6-11% in 2017**; ongoing job gains add to demand; but student debt and other credit impairments, limited supply will limit growth
- MF: 16% in 2016, **5-10% in 2017**; growth slowing but should last till 2018
 - occupancy rates, rents have leveled off or dipped in some markets
 - millennials are staying longer in cities, denser suburbs where MF construction is bigger share of market than in outer suburbs
 - nearly all MF construction is rental, not condo
- Improvements: 3% in 2016, **0-10% in 2017**; Census data is not reliable and shows only a loose relationship to SF spending

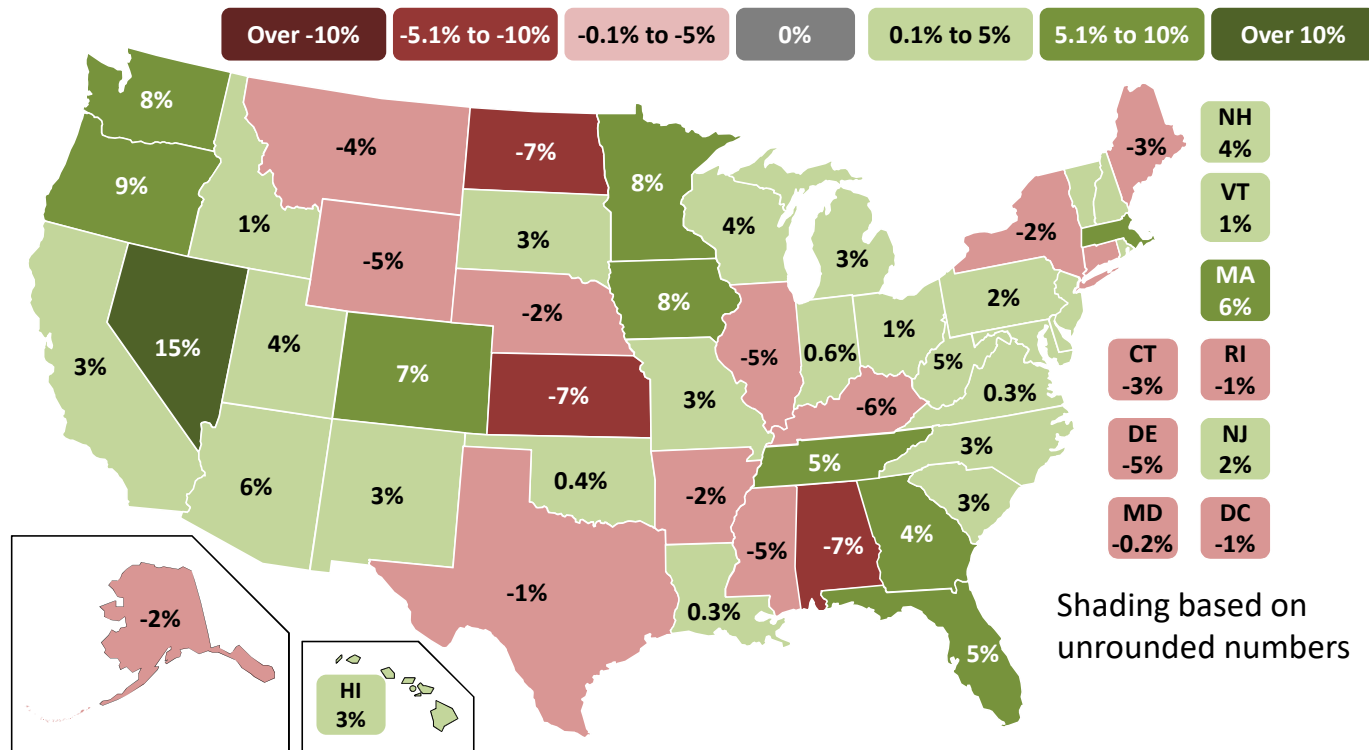
Population change by state, July 2015-July 2016 (U.S.: 0.70%)



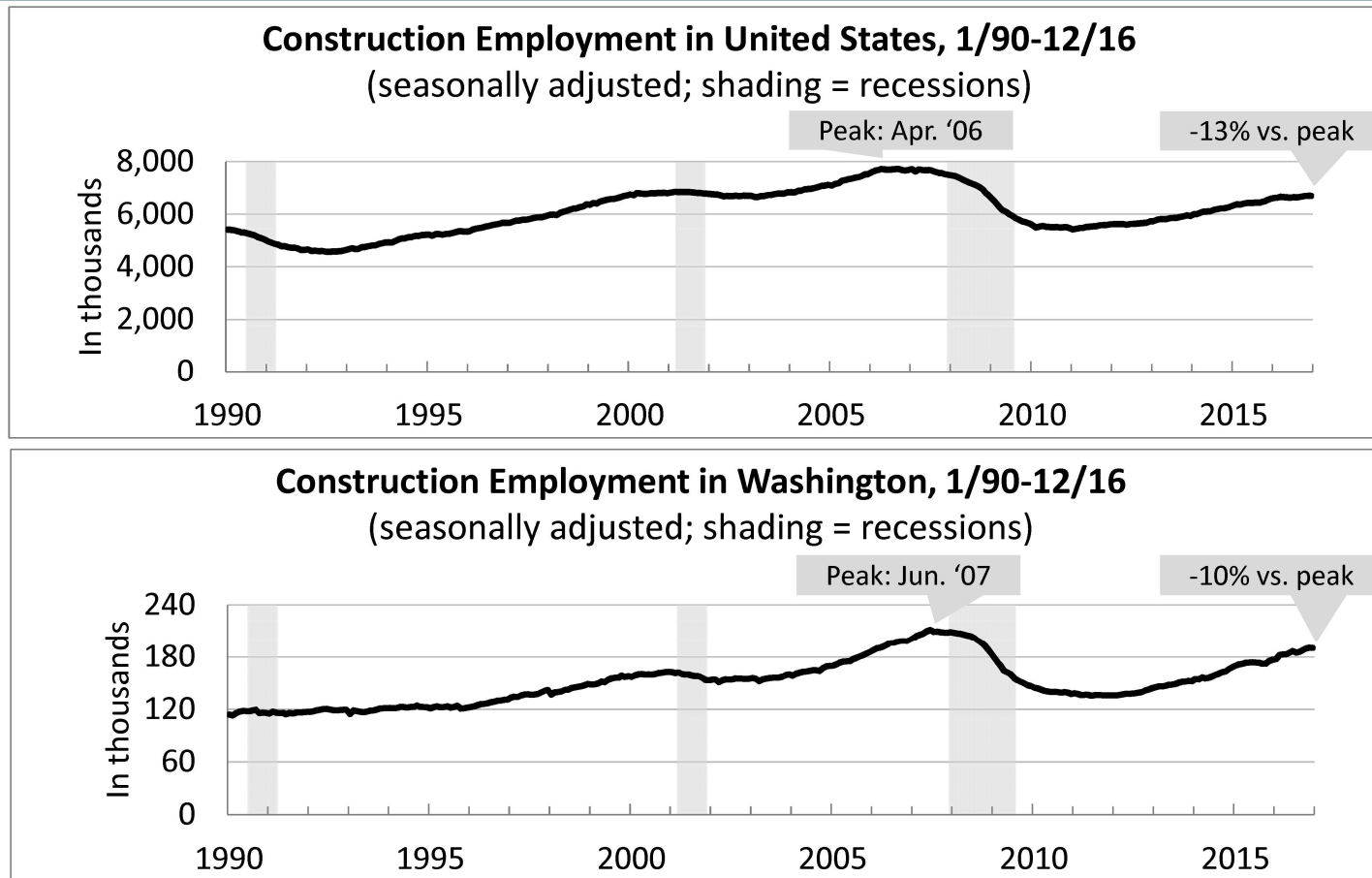
Source: U.S. Census Bureau

State construction employment change (U.S.: 1.5%)

12/15 to 12/16: 32 states up, 18 + DC down



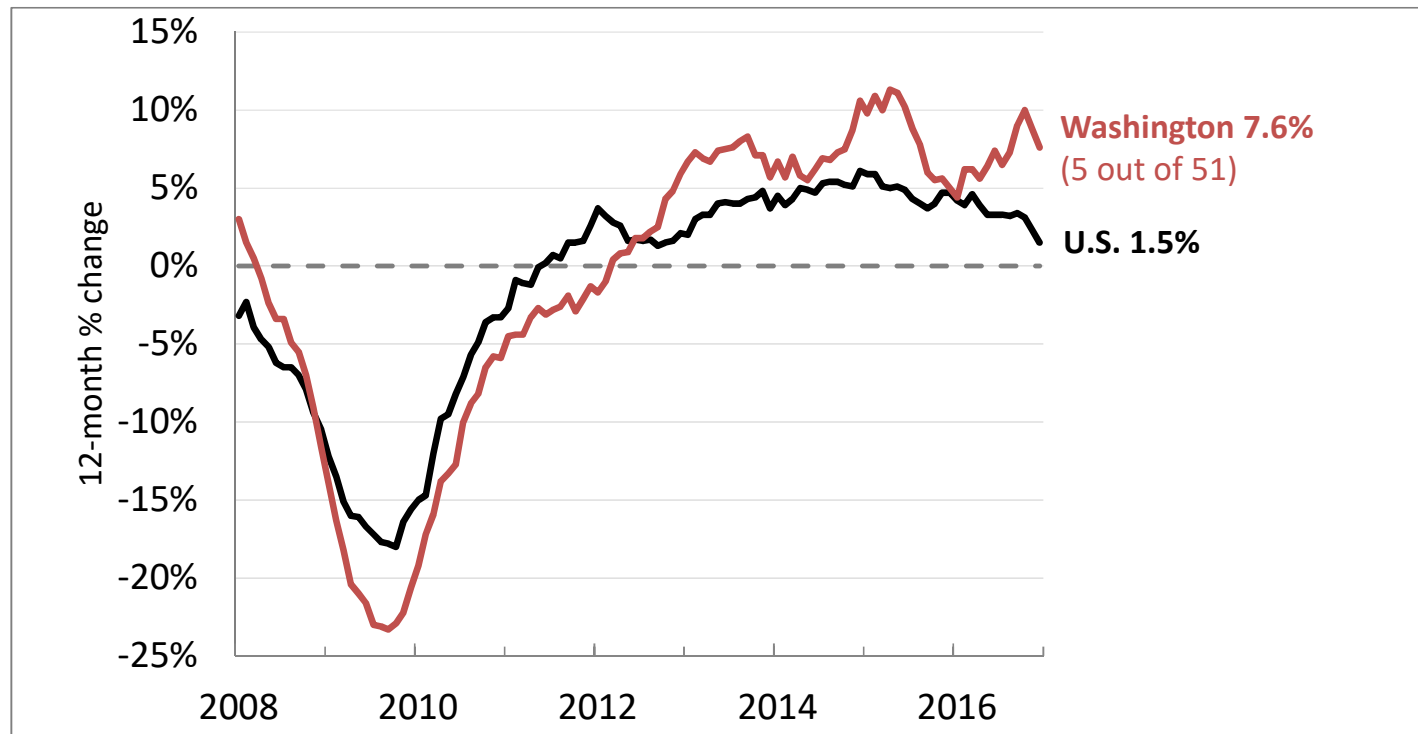
Source: BLS state and regional employment report



Source: BLS



Construction Employment Change from Year Ago 1/08-12/16 (not seasonally adjusted)



Source: BLS



Change in construction employment, 12/15-12/16

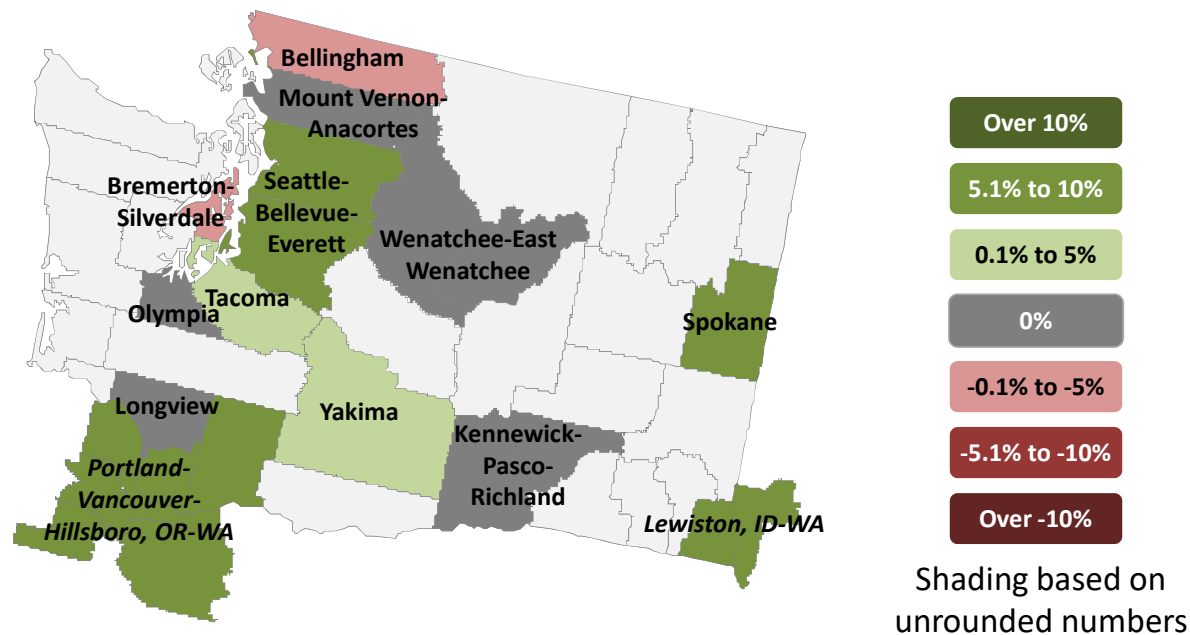
Metro area or division	12-mo. empl. change (NSA)	Rank (out of 339)
Statewide (Construction only)	8%	
Statewide* (Const/mining/logging)	7%	
Bellingham*	-5%	314
Bremerton-Silverdale*	-2%	267
Kennewick-Pasco-Richland*	0%	184
Longview*	0%	184
Mount Vernon-Anacortes*	0%	184
Olympia*	8%	26
Seattle-Bellevue-Everett, Div.	7%	33
Spokane*	6%	42
Tacoma, Div.	4%	70
Walla Walla*	0%	184
Wenatchee-East Wenatchee*	0%	184
Yakima*	3%	95
Lewiston, ID-WA	9%	20
Portland-Vancouver-Hillsboro, OR-WA	12%	8

**The Bureau of Labor Statistics reports employment for construction, mining and logging combined for metro areas in which mining and logging have few employers. To allow comparisons between states and their metros, the table shows combined employment change for these metros. Not seasonally adjusted statewide data is shown for both construction-only and combined employment change.*

Source: AGC rankings, calculated from BLS state and area employment reports



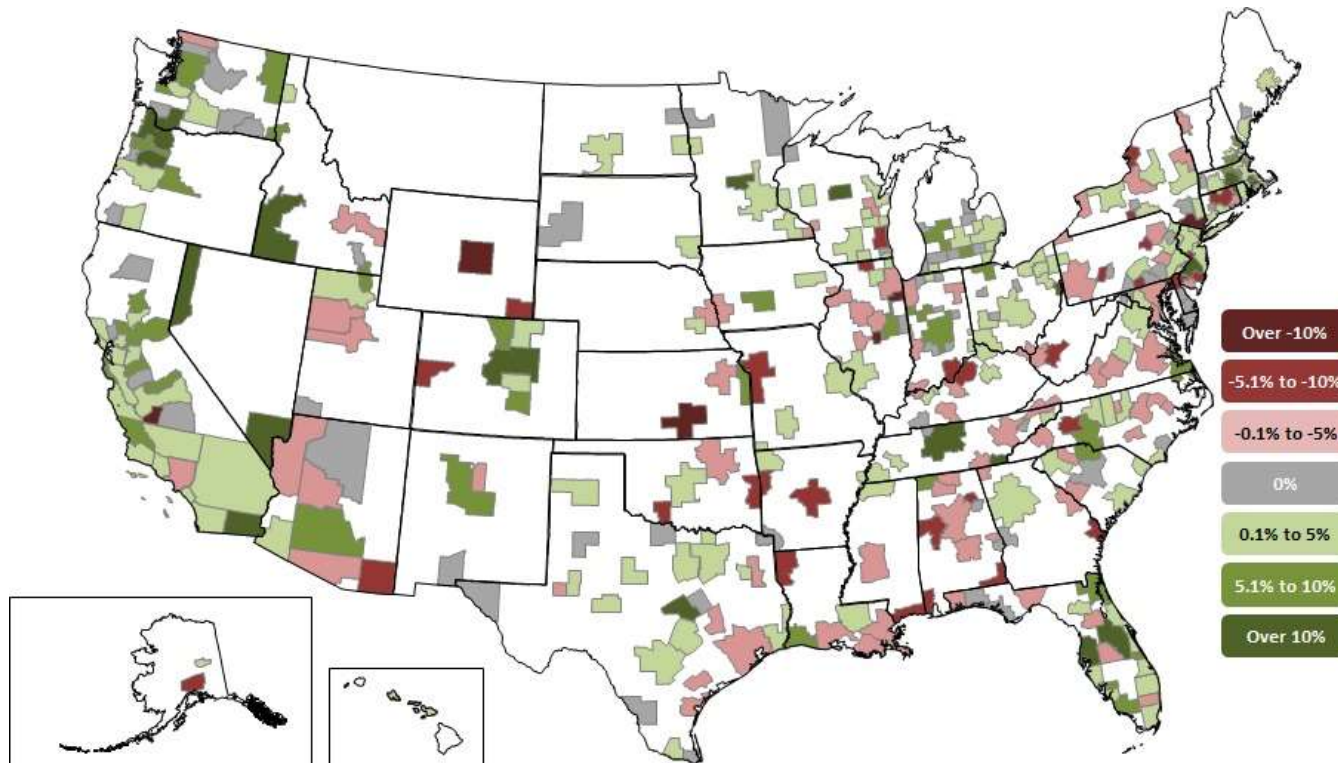
Construction employment change by WA metro, 12/15-12/16



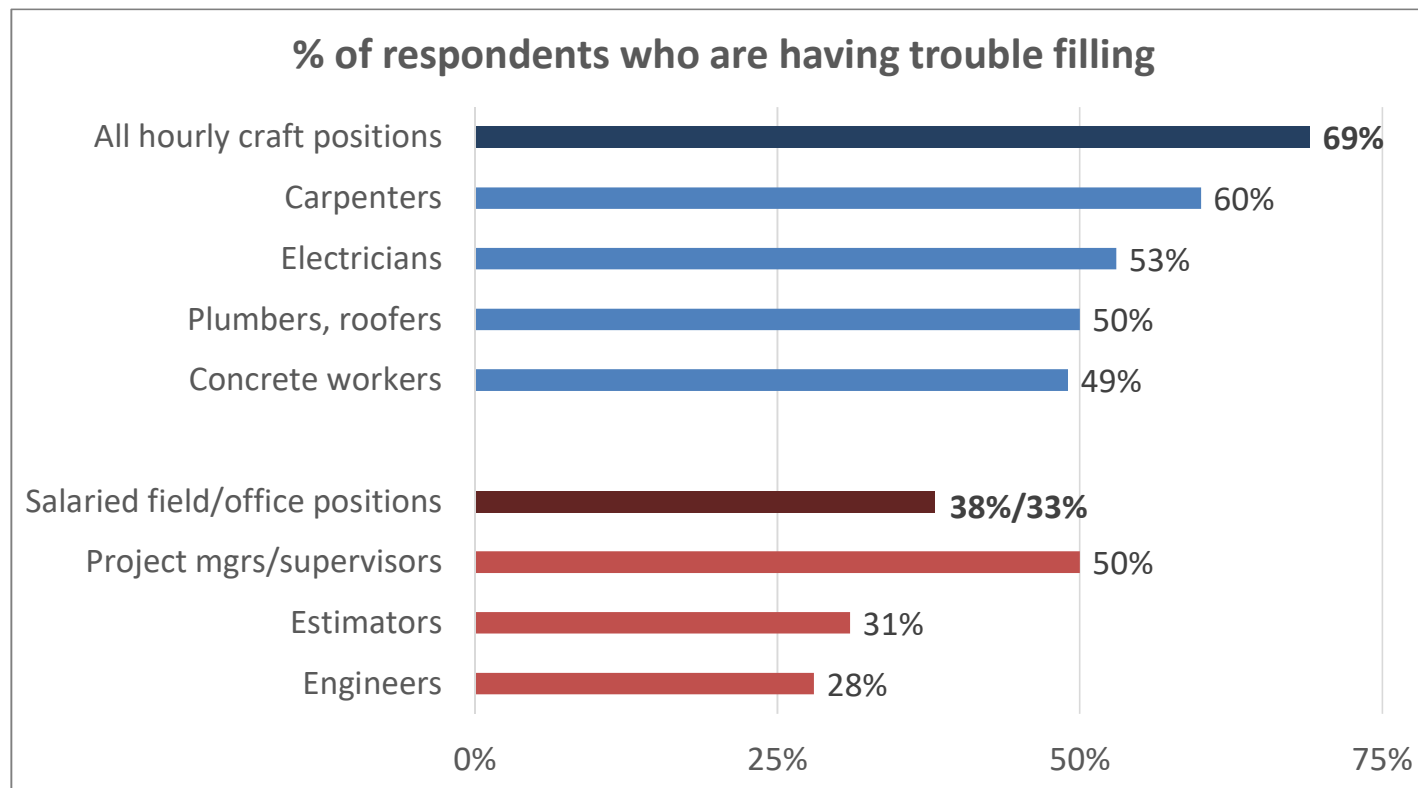
Source: BLS state and regional employment report

Metro construction employment change

12/15 to 12/16: 183 metros **up (51%)**, 65 unchanged, 109 + DC **down (31%)**



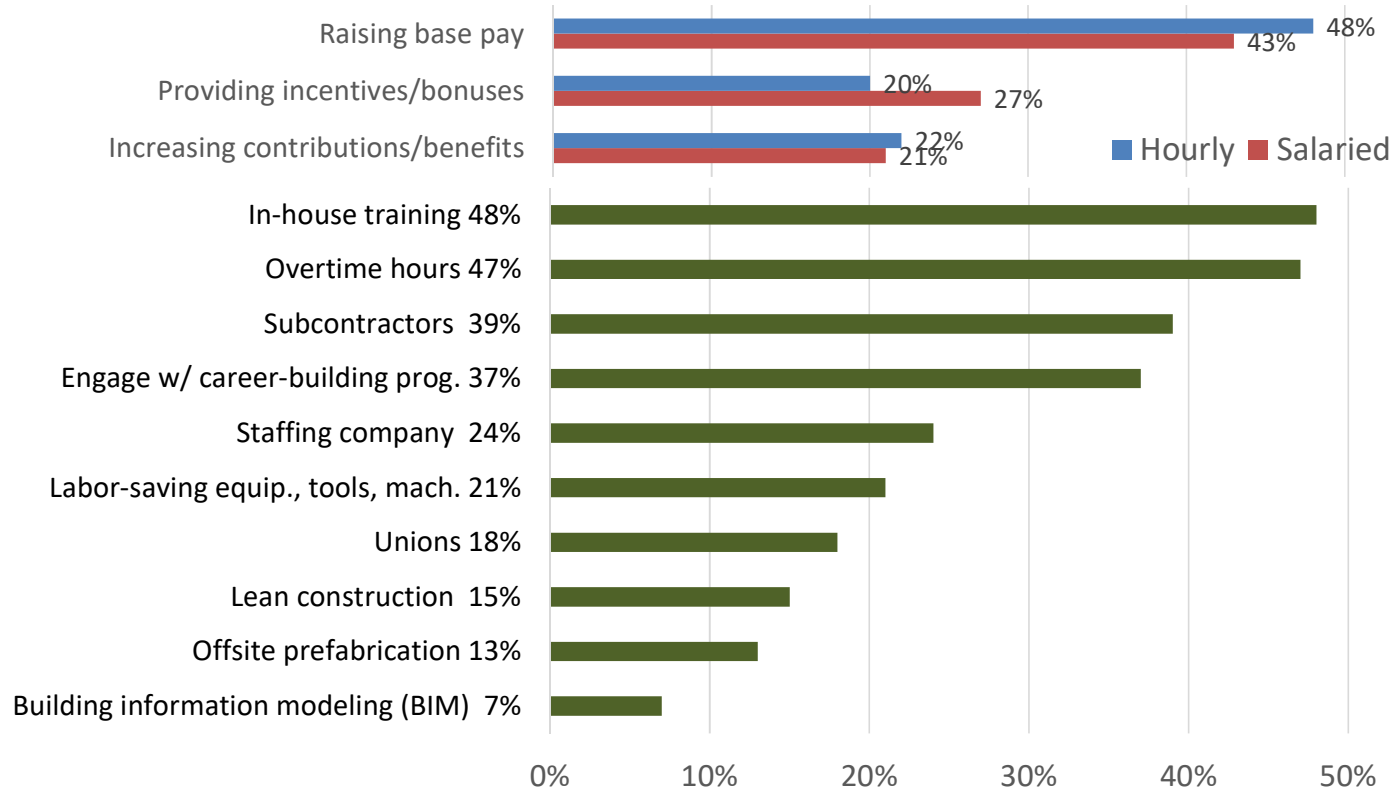
Hardest positions to fill



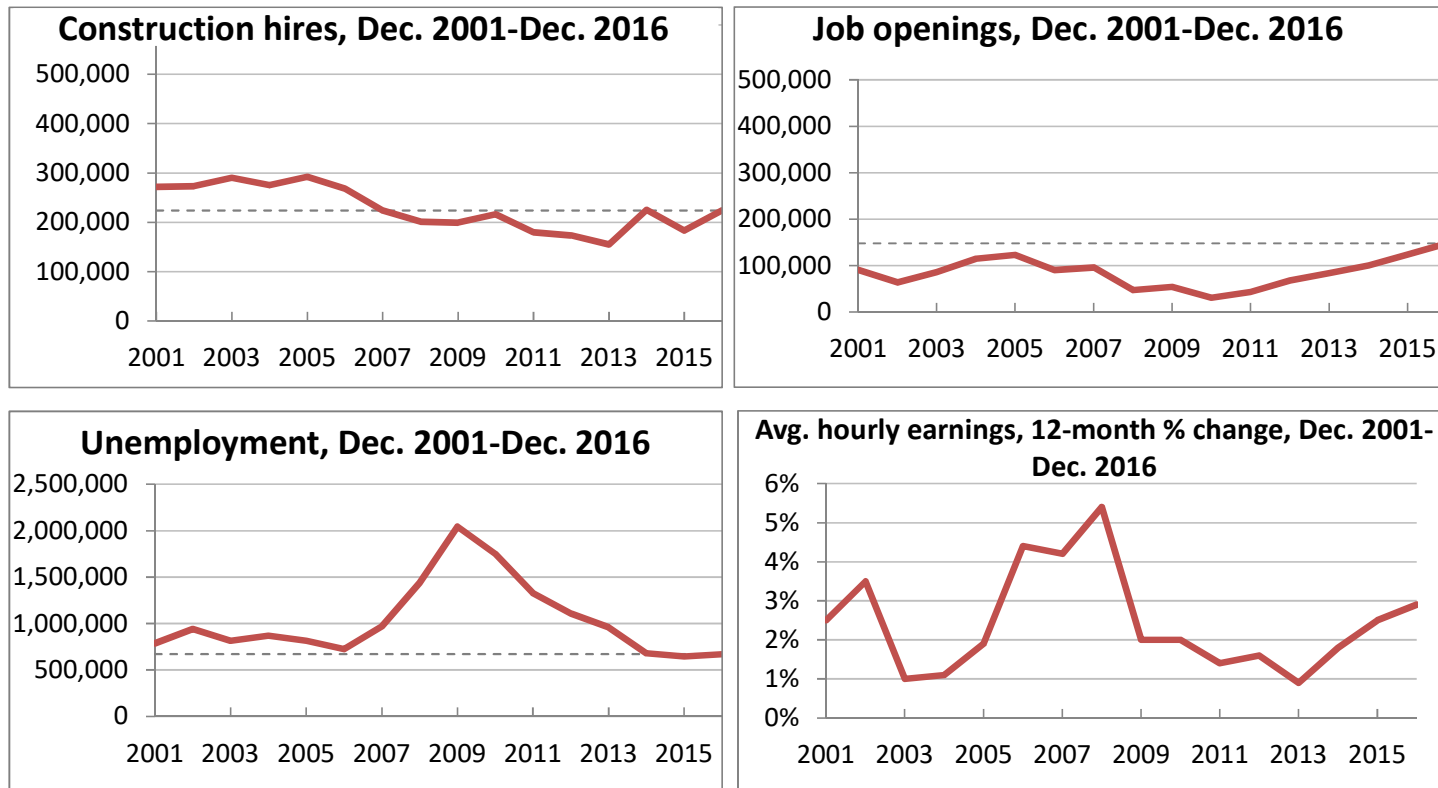
Source: AGC Member Survey, August 2016



How contractors are coping with worker shortages

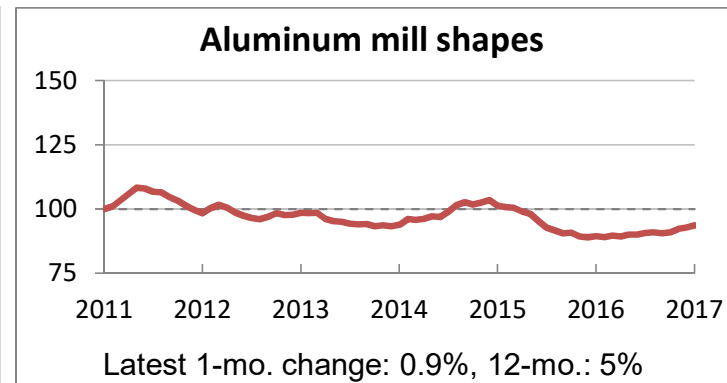
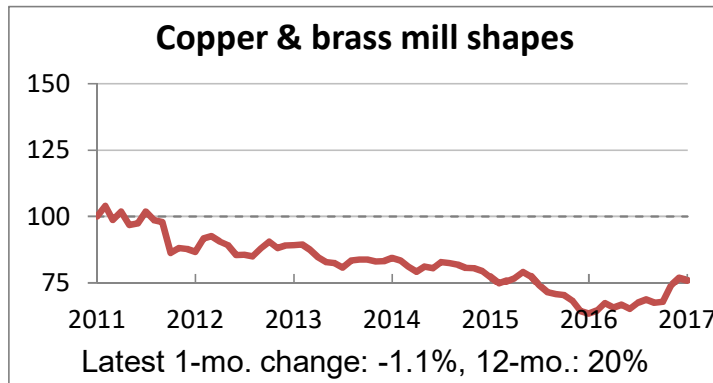
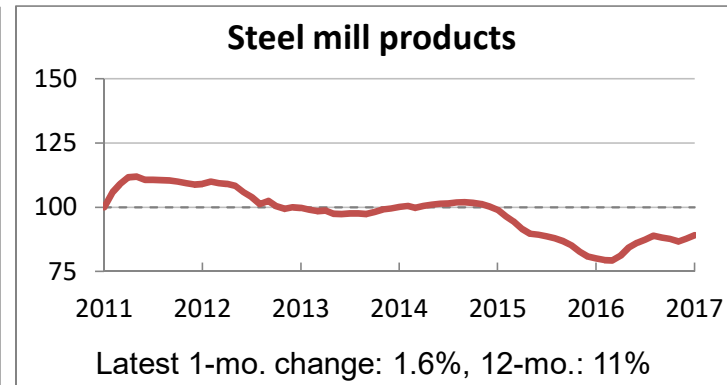
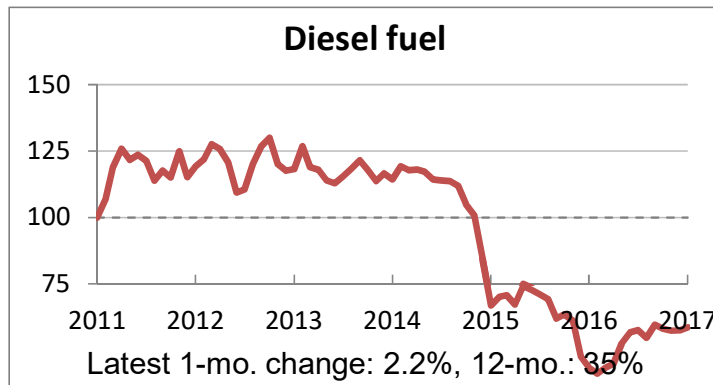


Construction workforce indicators (not seasonally adjusted)

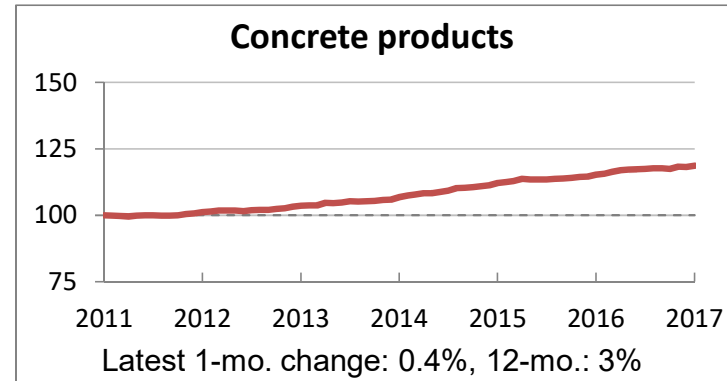
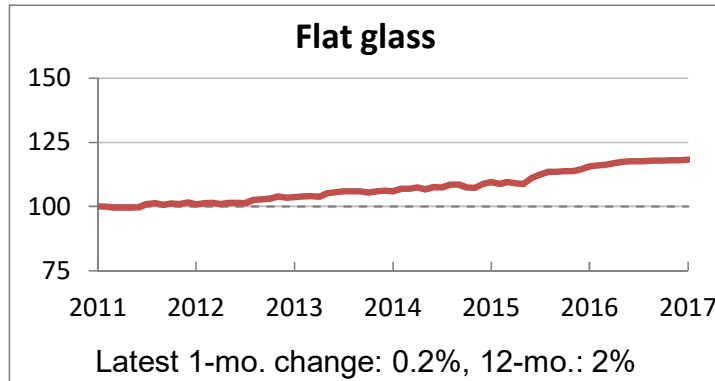
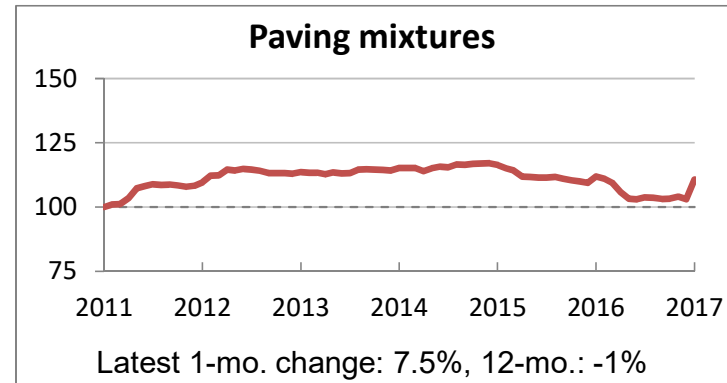
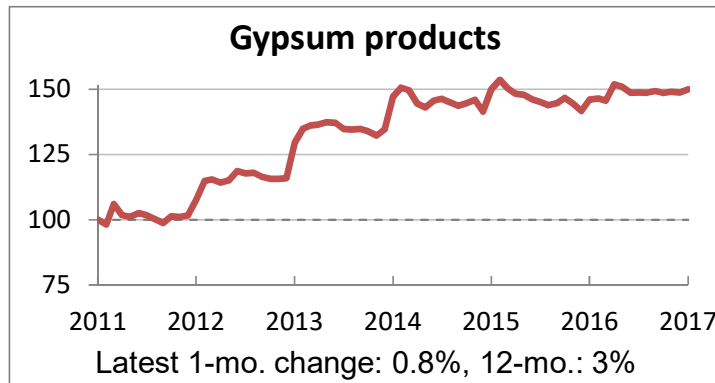


Source: Bureau of Labor Statistics

Producer price indexes for key inputs, 1/11-1/17 (Jan. 2011=100)



Producer price indexes for key inputs, 1/11-1/17 (Jan. 2011=100)



Source: Bureau of Labor Statistics

2015-16 summary, 2017 forecast

	2015 actual	2016 actual	2017 forecast
Total spending	11%	4%	2-7%
Private – residential	17%	5%	5-10%
– nonresidential	8%	8%	2-7%
Public	5%	-1%	0-3%
Goods & serv. inputs PPI	-2%	2%	2-4%
Employment cost index	2.2%	2.2%	3-4%

Source: actuals: Census, BLS; forecasts: Author's estimates



AGC economic resources

(email simonsonk@agc.org)

- *The Data DIGest*: weekly 1-page email (subscribe at <http://store.agc.org>)
- monthly press releases: spending; PPI; national, state, metro employment
- yearly employment & outlook surveys, state and metro data, fact sheets: www.agc.org/learn/construction-data

