

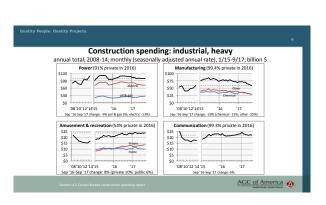
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Possible storm/flood impacts on construction

- · Immediate demand for plywood, wallboard, laborers, trucks
- Increased demand for new single- and multifamily housing; reconstruction of commercial, public buildings, infrastructure
- But most rebuilding will take years to get funding, design, regulatory approvals
- Meanwhile, businesses and individuals who would have built cancel or defer projects that they can't afford/don't need; public \$ is reallocated
- Net: selectively higher materials, labor costs; little change in spending

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Nonresidential segments: year-to-date change, 2017-18 forecast								
	JanSept. '17 vs. '16	Full-year 2017 forecast	2018 forecast					
Nonresidential total (public+private)	-1%	1-3%	1-5%					
Power (incl. oil & gas field structures, pipelines)	-5	-3 to -5	positive					
Highway and street	-4	-1 to -3	small pos.					
Educational	1	1 to 3	positive					
Commercial (retail, warehouse, farm)	15	10 to 12	less pos.					
Manufacturing	-13	-10 to -12	flat					
Office	7	4 to 6	less pos.					
Transportation	0	0 to 2	small pos.					
Health care	2	2 to 4	small pos.					
Lodging	7	5 to 7	negative					
Sewage & waste disposal	-18	-15 to -18						
Otheramusement; communication; religious; public safety; conservation; water: 13% of total	0	-1 to 1						
Source: U.S. Census Bureau construction spending report; Author's fo	recast		AGC of Ameri	≅ @				

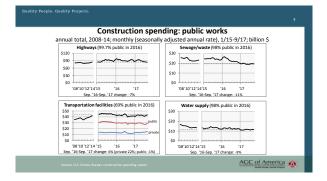


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Key points: power & energy, mfg, amusement & recreation

- Solar, wind power are growing again; expect more gas-fired plants, natural gas pipelines into '18
- Manufacturing construction recovery in '18 depends on policy impacts, especially trade and tax
- Amusement & recreation spending is very "lumpy"—a few big stadiums at irregular intervals; but funding for local, state, federal parks keeps eroding

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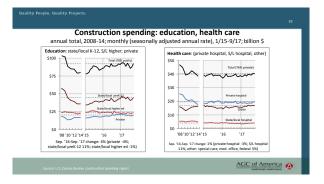


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Key points: roads, transportation, sewer/water

- State highway funding and P3s gradually increasing but federal funding likely to be flat through 2018
- Many new and ongoing airport projects but no net increase likely in public funding for port, passenger rail or transit construction
- Huge declines in water & sewer spending in 2017: hard to explain and unlikely to be repeated

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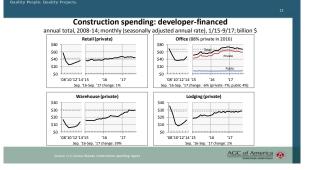


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Key points: education & health care

- Rising house & commercial property values are supporting school district tax receipts & bond issues for preK-12 projects
- Higher-ed enrollment declined 21% from 2011 to 2016, so colleges need fewer dorms & classrooms; apts. (multifamily) replacing dorms (educational construction)
- Rising stock prices help private school & college capital campaigns
- Health care spending is shifting from hospitals to special care facilities (standalone urgent care, surgery, rehab, hospices)

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

- Retail now tied to mixed-use buildings & renovations, not standalone stores or shopping centers; massive store closings imply downturn in '18
- Warehouse growth is still benefiting from e-commerce; more local than huge regional distribution centers likely in future; self-storage is booming
- Office growth is slowing; employment still rising but space per worker is shrinking; more urban & renovation work than suburban office parks
 Hotel: more competition from Airbnb; fewer foreign visitors?
- Data centers remain a strong niche but no data available on how strong

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Private residential spending: steady single-family growth, slower multifamily annual total, 2006-14; monthly (seas ally adjusted annual rate), 1/15-9/17; billion \$ Total 12-month % change: Jan. 2015-Sep. 2017 359 \$70 9/16-9/17: 30% \$600 25% \$500 g 209 \$400 Single-family: 12% 15% \$300 10% \$200 5% \$100 0% \$0 -5% 06 '08 '10 '12 '1415 '17 2015 201 2013

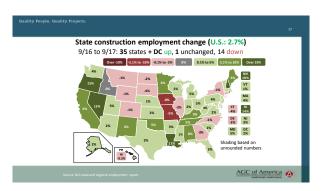
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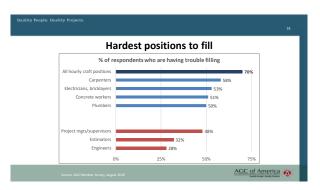
Private residential spending forecast--2017: 7-9%; 2018: 6-9%

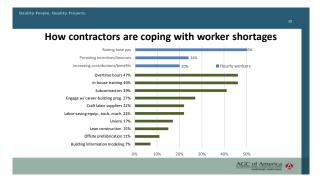
- SF: 8-10% in 2017 & 2018; ongoing job gains add to demand; but student debt and other credit impairments, limited supply of lots and labor will limit growth
- MF: 3-5% in 2017; near 0 in 2018
 - occupancy rates, rents have leveled off; starts, permits are down from 2016
 - millennials are staying longer in cities and denser suburbs where MF
 - construction is bigger share of market than in outer suburbs – nearly all MF construction is rental, not condo; more high-rises
- Improvements: 15-20% in 2017 & 2018; unpredictable because Census lacks reliable data source; post-storm reconstruction may boost totals

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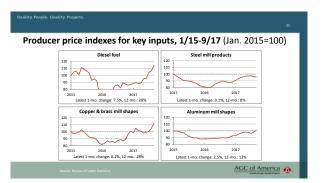
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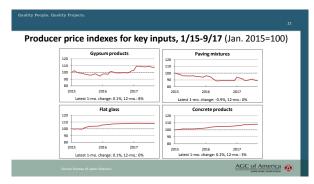


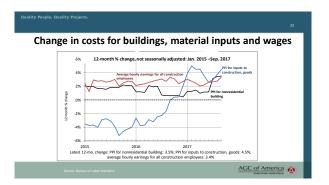












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	2016 summa	ry, 201	7-18 fored	ast	
		2016 actual	2017 forecast	2018 forecast	
	Total spending	6%	3-5%	2-7%	
	Private – residential	11%	7-9%	6-9%	
	- nonresidential	8%	2-4%	1-5%	
	Public	-1%	-4 to -6%	-3 to 3%	
	Goods & services inputs PPI	2%	2.5-3.5%	3-4%	
	Employment cost index	2.2%	2.5-3%	3-4%	
	Source: actuals: Census, BLS; forecasts: Author's estima	ites		AGC of Ameri	

AGC economic resources (email simonsonk@agc.org)

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

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