

#### **Construction & Materials Outlook**

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#### **Current economic influences**

- Credit market freeze affecting private, state and local borrowers
- · Weak economic outlook, falling state spending
- · No job growth, rising unemployment
- Wages, personal income < CPI change</li>

Source: Author, from BEA (GDP, personal income), BLS (CPI, employment, unemployment)





#### Single-family (SF) vs. multifamily (MF)

- October construction spending (value put in place):
  - SF: -4.6% vs. September, -41.0% vs. 10/07
  - MF: -0.3% vs. September, -1.4% vs. 10/07
  - Improvements: -3.2% vs. September, 4.2% vs. 10/07
- October building permits:
  - SF: -14.5% vs. September, -43.3% vs. 10/07
  - MF: -7.1% vs. September, -33.2% vs. 10/07
- October housing starts:
  - SF: -3.3% vs. September, -39.9% vs. 10/07
  - MF: -6.8% vs. September, -33.5% vs. 10/07

Source: Census



#### **Housing outlook**

- SF: No relief yet for decline in permits, starts or spending, but sales could pick up by early '09
- Starts won't improve until mid '09 at best
- MF: Rental construction cushioned the fall in condo starts but now many owners are trying to rent out houses and condos
- Foreclosures will add to inventories, drag down both sales and rentals



## Nonres '07 totals, change; '08 YTD change

Nonresidential total	'07 Total \$638 billion	Share 100%	Change +16%	'08 YTD +12%
Educational	96	15	+13	+ 9
Commercial	88	13	+16	- 2
Highway & street	76	11	+ 6	+ 6
Office	65	11	+19	+14
Power	53	10	+34	+33
Healthcare	43	6	+11	+ 8
Manufacturing	43	8	+20	+49
Transportation	32	5	+16	+10
Lodging	29	5	+58	+33
Communication	27	4	+22	- 4
Sewage & waste disposa	l 25	4	+ 6	+ 4
Other (amusement: wate	r: safety: reliq : c	onservation	). 9% of total	

Other (amusement; water; safety; relig.; conservation): 9% of total



# Leading segments in 2008 - 2009

	2007		2008	Forecast	
Segment	Bil.\$	Change	YTD	2008	2009
Power	53	+34%	+33%	+30 to +35%	7
Energy	17	+55	+17	+15 to +20	7
Hospitals	31	+14	+ 5	+ 4 to + 7	7
Higher ed.	30	+13	+18	+15 to +18	7
-	31		. ~		_

**BRAC** and Homeland Security (part of several segments)



# Weaker segments in 2008 - 2009

	2007		2008	Forecast	
Segment	Bil. \$	Change	YTD	2008	2009
Lodging	29	+58%	+35%	+30 to 33%	7
Office	65	+19	+14	+10 to 12	7
Commercial	88	+16	- 2	- 5 to - 2	7
Primary/ Secondary	59	+15	+ 5	+3 to +6	7
Highway	76	+ 6	+ 6	+3 to +6	0
Course Author					



### Spending outlook for 2008 - 2009

	Actual	Forecast		
	2007	2008	2009	
Residential	-19%	-25 to -30%	- 2 to +2%	
Nonresidential	+16	+ 9 to +12	- 3 to - 9	
Total	-2.6	- 6 to - 8	- 1 to - 7	

But...materials, labor costs may still rise

Source: Census; Author



#### **Materials and components**

Higher increases for construction inputs than for overall economy:

12 mo. to:	12/04	12/05	12/06	12/07	10/08
Const PPI	9.1%	8.2%	4.6%	4.5%	10.0%
CPI-U	3.3%	3.4%	2.5%	4.1%	3.7%

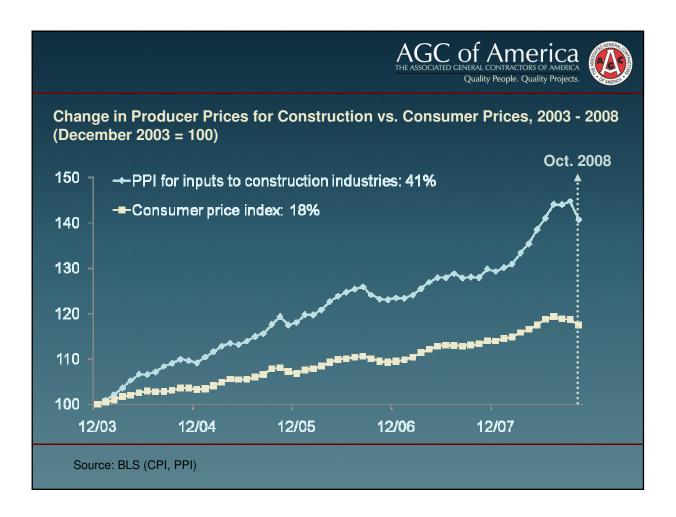
Cumulative change double the CPI since 12/03:

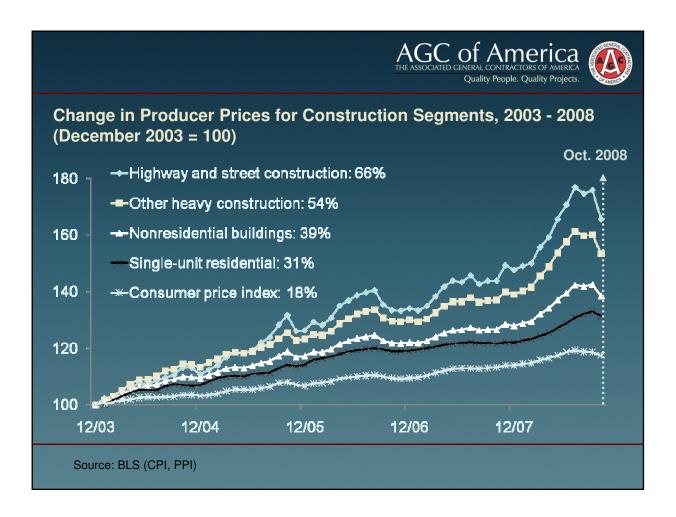
Const PPI: 41%

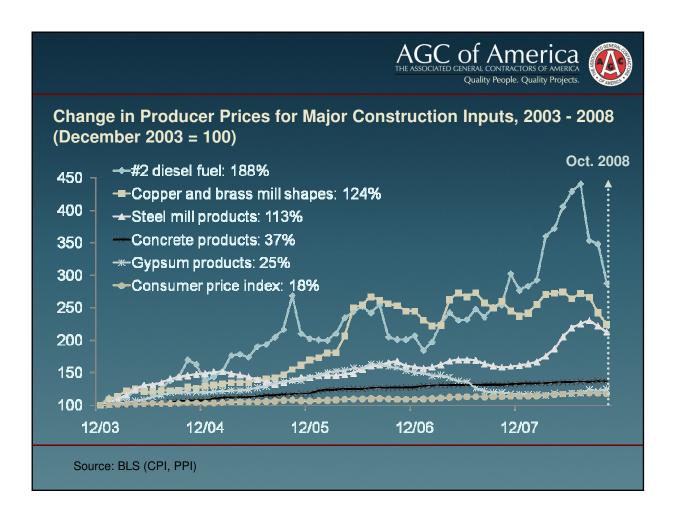
• CPI-U: 18%

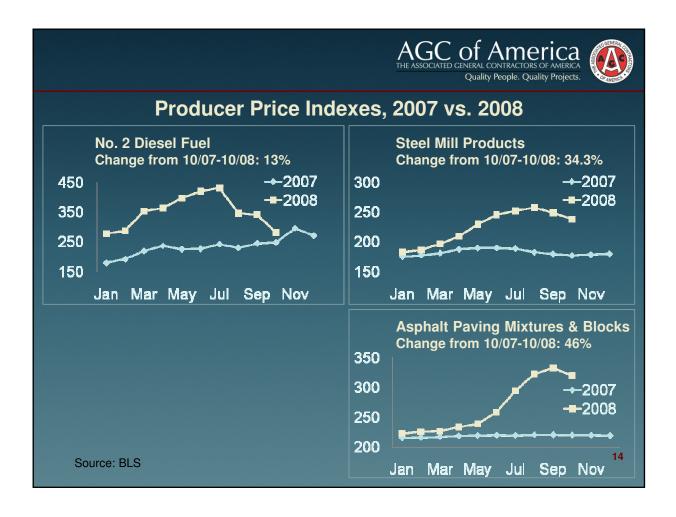
 Producer price index drivers: steel, gypsum, diesel, asphalt, concrete, copper, plastics, aluminum, wood

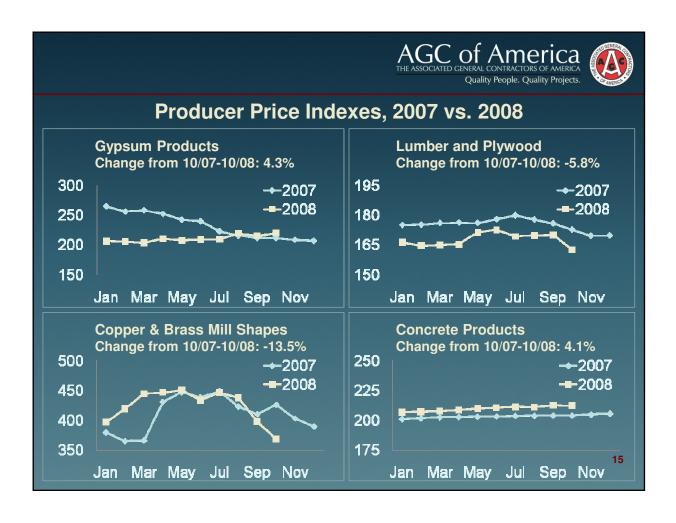
Source: BLS (CPI, PPI)













#### Outlook for materials in '09 compared to '08

- Lower average prices: diesel, asphalt, steel
- Possible increases: concrete, gypsum, copper, wood products
- Year-over-year PPI change: -2 to +2%

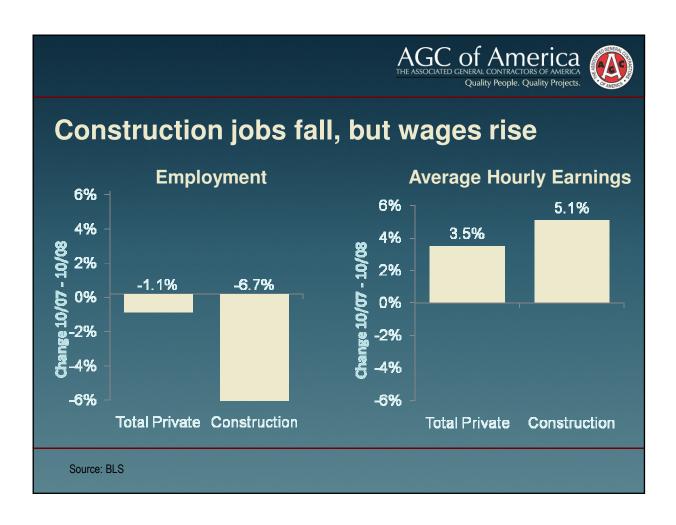
Source: Author's forecasts



#### Outlook for materials (beyond 2009)

- Industry depends on specific materials that:
  - · are in demand worldwide
  - · have erratic supply growth
  - · are heavy, bulky or hard to transport
- Construction requires physical delivery
- Thus, industry is subject to price spurts, transport bottlenecks, fuel price swings
- Expect 6 to 8% PPI increases, higher spikes

Source: Author's forecast

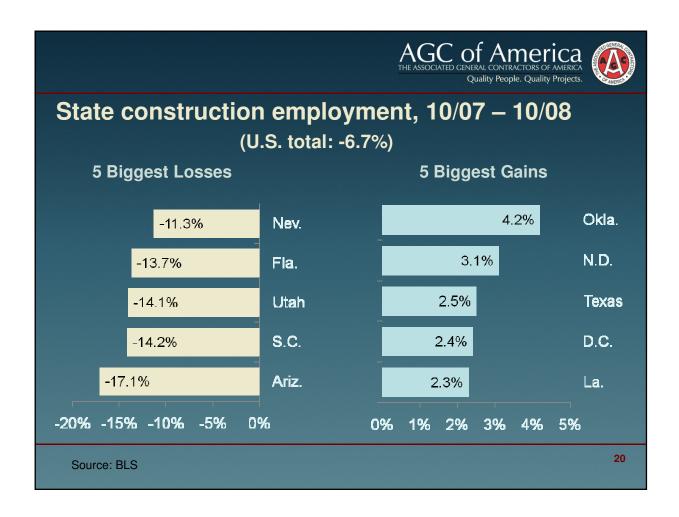


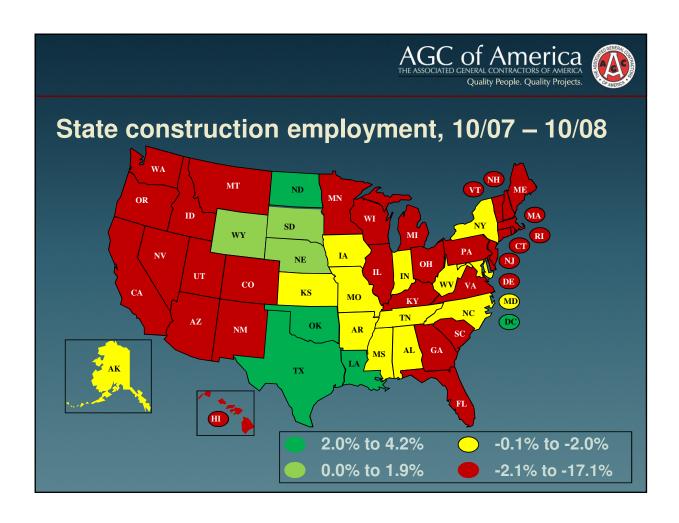


#### Implications for 2008-09 wages

- Biggest demand in '08 will be for crane operators, other scarce skills
- Wages in '08 will rise +5 to +6% vs. +4.1% in '07
- Nonres slump in '09 will slow wages to +3 to 4.5%

Source: Author's forecasts







#### **Summary for 2008**

- Nonres spending: +9 to +12% (led by energy, power, communications, hospitals, higher ed; weaker highway, retail, office, lodging)
- Res: -25 to -30% (no turnaround before '09)
- Total construction spending: -6 to -8%
- Materials costs: +6 to +8%
- Labor costs: +5 to +6%



#### **Summary for 2009**

- Nonres spending: -3 to -9%
- Res: -2 to +2% (SF up in 2d half, MF down all year)
- Total construction spending: -1 to -7%
- Materials costs: -2 to +2%
- Labor costs: +3 to +4.5%

23



# AGC economic resources (sign up by email to simonsonk@agc.org)

- The Data DIGest: weekly one-page email
- · PPI tables: emailed monthly
- State-specific emails (timing varies) and fact sheets: www.agc.org /factsheets
- Webinars/Audioconferences



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