

Construction & Materials Outlook: Sinking Demand, Higher Costs

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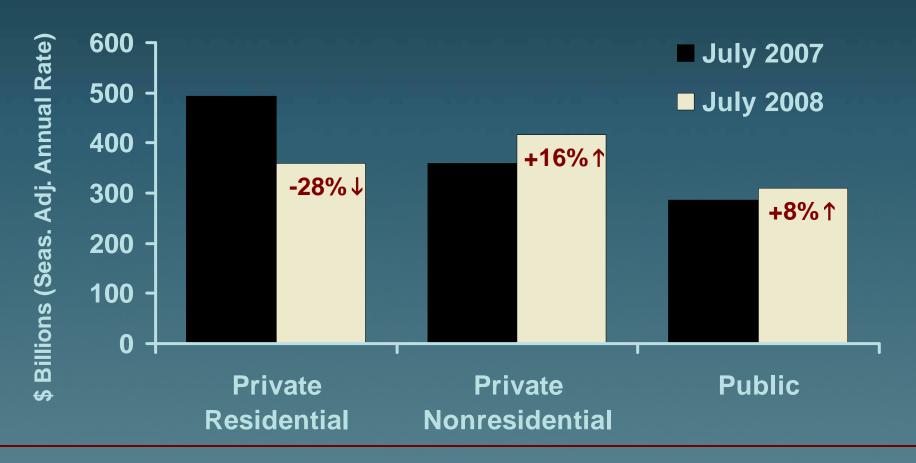
Current economic influences

- Weak but positive GDP growth (0.6-2%)
- Excessive inflation (CPI change 3-5%)
- No job growth, rising unemployment
- Wages, personal income < CPI change
- Worries about housing, credit market spillovers



The shifting construction market

(total change July 2007 – July 2008: -5%)





Nonres '07 totals, change; '08 YTD change

, -	<u>'07 Total</u>	<u>Share</u>	<u>Change</u>	<u>'08 YTD</u>
Nonresidential total	\$638 billion	<u>100%</u>	<u>+16%</u>	<u>+14%</u>
Educational	96	15	+13	+ 10
Commercial	88	13	+16	+ 3
Highway & street	76	11	+ 6	+ 3
Office	65	11	+19	+16
Power	53	10	+34	+33
Healthcare	43	6	+11	+ 8
Manufacturing	43	8	+20	+46
Transportation	32	5	+16	+14
Lodging	29	5	+58	+38
Communication	27	4	+22	+ 4
Sewage & waste disposal	25	4	+ 6	+ 5

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

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Leading segments in 2008 - 2009

	<u>2007</u>		<u>2008</u>	<u>Forecast</u>	
<u>Segment</u>	<u>Bil. \$</u>	<u>Change</u>	<u>YTD</u>	<u>2008</u>	<u>2009</u>
Power	53	+34%	+33%	+20 to +30%	7
Energy	17	+55	+31	+20 to +30	7
Communic.	27	+22	+ 4	+5 to +10	7
Hospitals	31	+14	+ 4	+5 to +10	7
Higher ed.	30	+13	+18	+10 to +15	7

BRAC-related (part of several segments)

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Weaker segments in 2008 - 2009

	<u>2007</u>		<u>2008</u>	<u>Forecast</u>	
<u>Segment</u>	<u>Bil. \$</u>	<u>Change</u>	<u>YTD</u>	<u>2008</u>	<u>2009</u>
Lodging	29	+58%	+38%	-5 to 5%	7
Office	65	+19	+16	0 to +5	7
Commercial	88	+16	+ 3	+1 to +4	7
Primary/ Secondary	59	+15	+ 5	+3 to +6	R
Highway	76	+ 6	+ 3	+3 to +7	0

Source: Author



Spending outlook for 2008 - 2009

	<u>Actual</u>	<u>Forecast</u>		
	<u>2007</u>	<u>2008</u>	<u>2009</u>	
Residential	-19%	-25 to -20%	+1 to +5%	
Nonresidential	+16%	+4 to +8%	-5 to -1%	
Total	-2.6%	-9 to -5%	-2 to +2%	

But...materials, labor costs will rise



Materials and components

Higher increases for construction inputs than for overall economy:

<u>12 mo. to:</u>	<u>12/04</u>	<u>12/05</u>	<u>12/06</u>	<u>12/07</u>	<u>8/08</u>
Const PPI	9.1%	8.2%	4.6%	4.5%	12.7%
CPI-U	3.3%	3.4%	2.5%	4.1%	5.4%

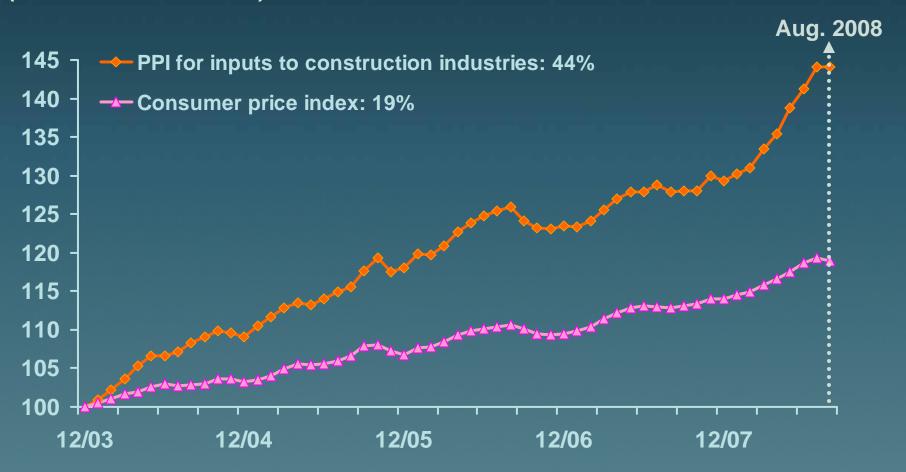
Cumulative change double the CPI since 12/03:

Const PPI 44%
CPI-U 19%

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



Change in Producer Prices for Construction vs. Consumer Prices, 2003 - 2008 (December 2003 = 100)



Source: BLS (CPI, PPI)



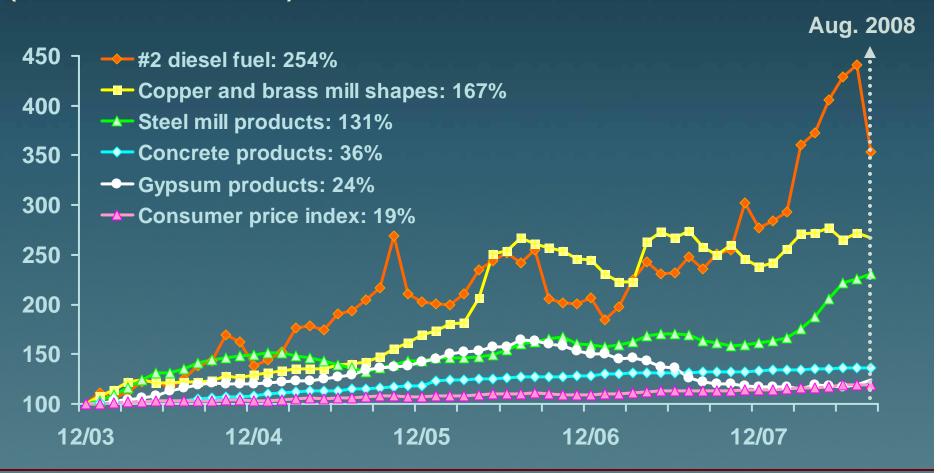
Change in Producer Prices for Construction Segments, 2003 - 2008 (December 2003 = 100)



Source: BLS (CPI, PPI)



Change in Producer Prices for Major Construction Inputs, 2003 - 2008 (December 2003 = 100)



Source: BLS (CPI, PPI)



Producer Price Indexes, 2007 vs. 2008

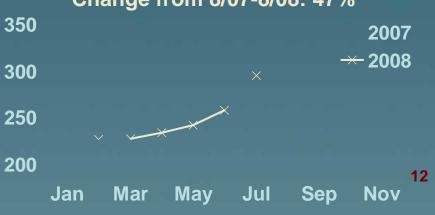




Steel Mill Products Change from 8/07-8/08: 41%

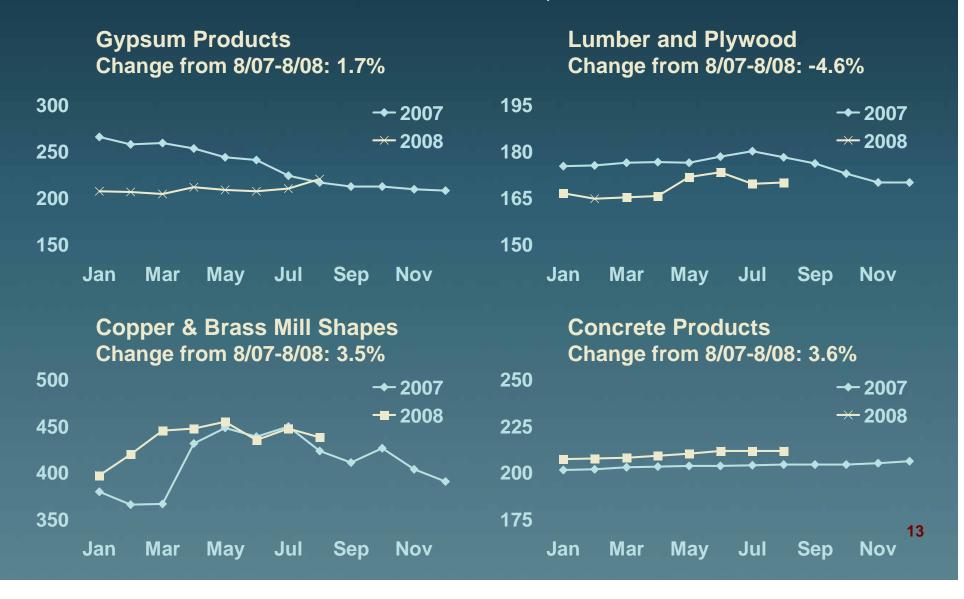


Asphalt Paving Mixtures & Blocks Change from 8/07-8/08: 47%





Producer Price Indexes, 2007 vs. 2008





Outlook for materials in '08 compared to '07

- Falling prices: wood, gypsum products
- Likely to rise: diesel, steel, asphalt, plastics; maybe copper, aluminum
- Longer lead times for some items; localized shortages of liquid asphalt or polymers
- Year-over-year PPI change: 6-8%; highest for highway/heavy; less for buildings

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Outlook for materials (1-5 years)

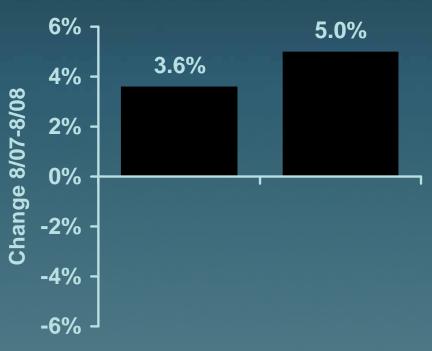
- Industry depends on specific materials that:
 - are in demand worldwide
 - have erratic supply growth
 - are heavy, bulky or hard to transport
- Construction requires physical delivery
- Thus, industry is subject to price spurts, transport bottlenecks, fuel price swings
- Expect 6-8% PPI increases,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



Construction jobs fall, but wages rise



Average Hourly Earnings

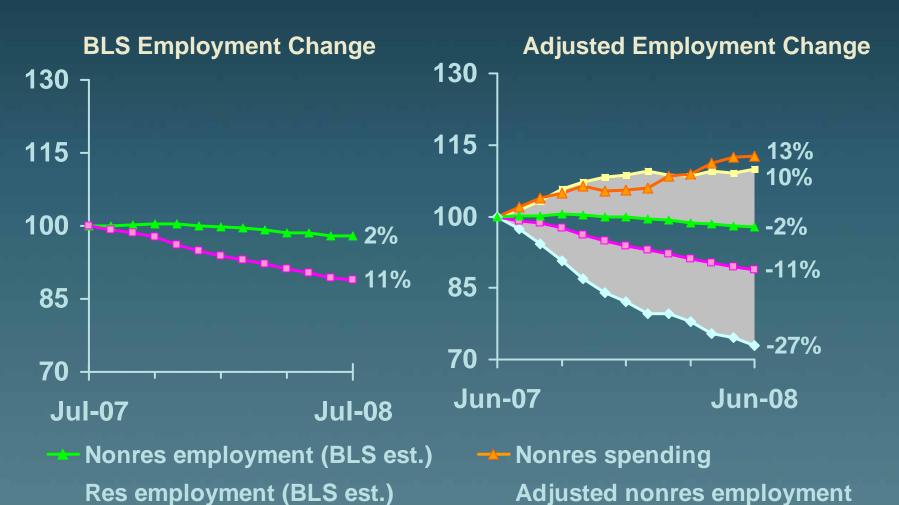


Total Private Construction



-Residential spending

Change in construction employment, July 2007 - July 2008



Source: Author (from BLS, Census data)



Implications for 2008 wages

- Nonres employment actually includes another 523,000 'res' specialty trades
- Thus, res change 7/07-7/08 was -27%, not -11%; nonres change was +10%, not -2%
- Biggest demand in '08 will be for crane operators, other scarce skills
- Nonres wages will rise +5 to +6% vs. +4.1% in '07

Source: Author's forecasts

Summary for 2008

- Nonres spending: +4 to +8% (led by energy, power, communications, hospitals, higher ed; weaker highway, retail, office, lodging)
- Res: -25 to -20% (no turnaround before '09)
- Total construction spending: -9 to -5%
- Materials costs: +6 to +8%
- Labor costs: +5 to +6%

Summary for 2009

- Nonres spending: -1 to -5%
- Res: +1 to +5% (SF up in 2d half, MF down all year)
- Total construction spending: -2% to +2%
- Materials costs: +6 to +8%
- Labor costs: +4 to +5%



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

- The Data DIGest: weekly one-page email
- PPI tables: emailed monthly
- Construction Inflation Alert: Oct. & March
- State-specific emails (timing varies) and fact sheets: www.agc.org /factsheets
- Audioconferences



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