

Cement & Construction Outlook

Minnesota Concrete Council

November 17, 2011



Dave Zwicke, PCA Analytics Manager, Sr. Economist



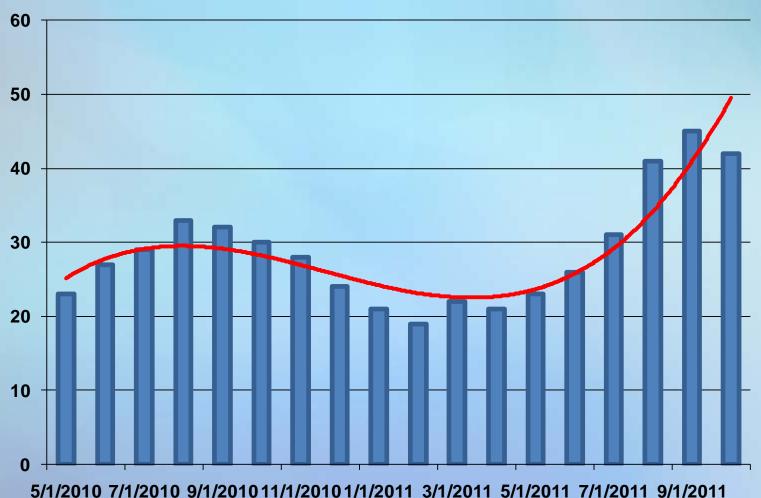
Bottom Line

- Economy in a slow growth period characterized by tepid job gains.
 - Limited policy tools to stimulate.
 - More than 1 in 3 chance of double dip in 2011/2012
- Only marginal gains in residential construction
 - Hindered by foreclosures, tight lending standards and slow job growth.
- Nonresidential engaged in a long, slow healing process
 - Process has only begun.
- Public no longer a key positive
 - State deficits and lower property taxes will have negative affect



Risk of Recession

% Probability the U.S. will Enter a Recession in 6 months

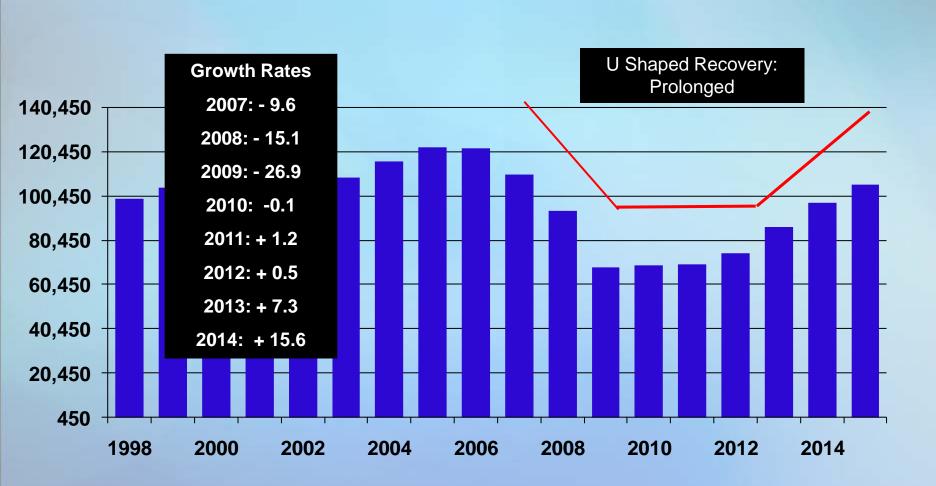


Source: Moody's



Portland Cement Consumption: Fall Outlook

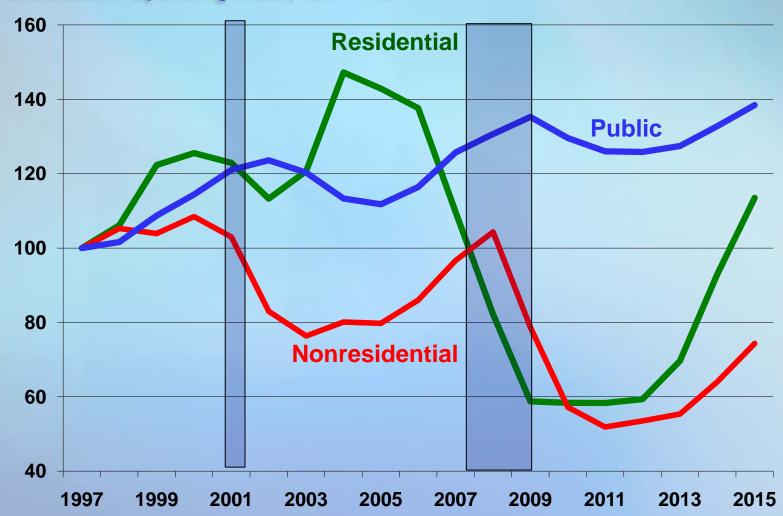
Thousand Metric Tons





Construction Turning Points

Real Construction Spending Index, 1997=100



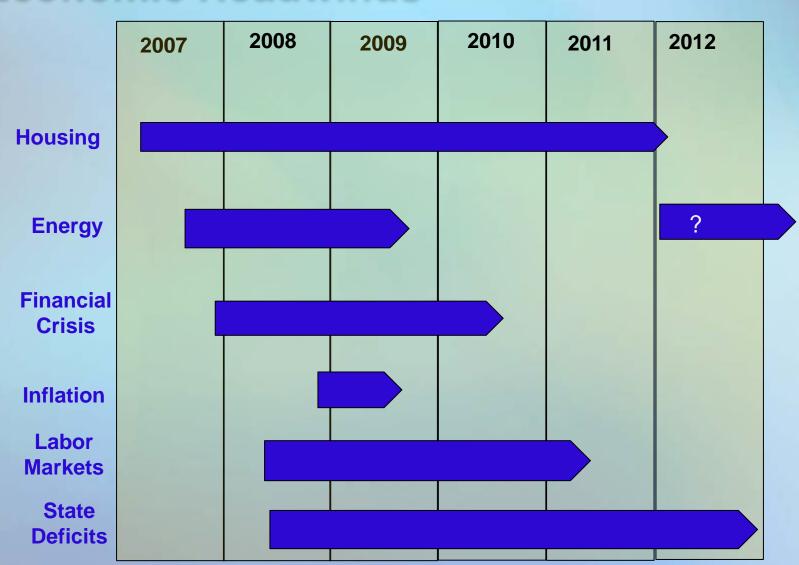


Economic Outlook





Economic Headwinds





U.S. Unemployment Rate Improving...





Getting back to Even...

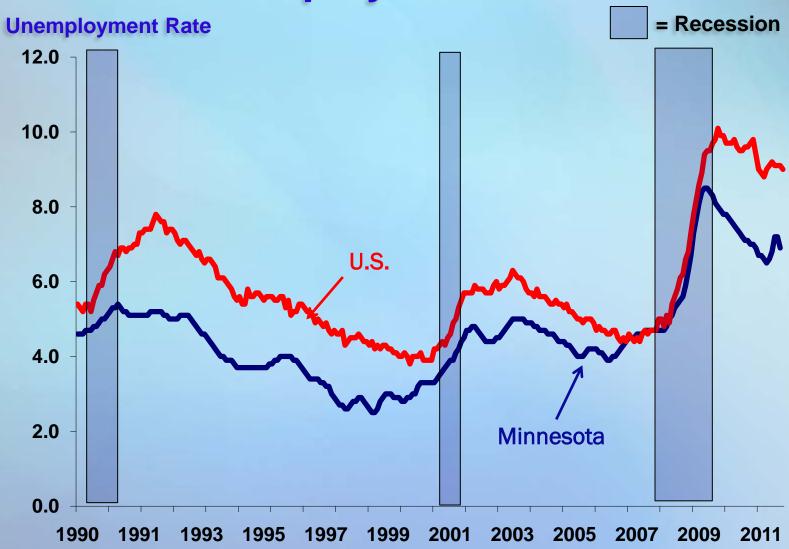
Employment, Index = Recession Start



Source: PCA/BLS



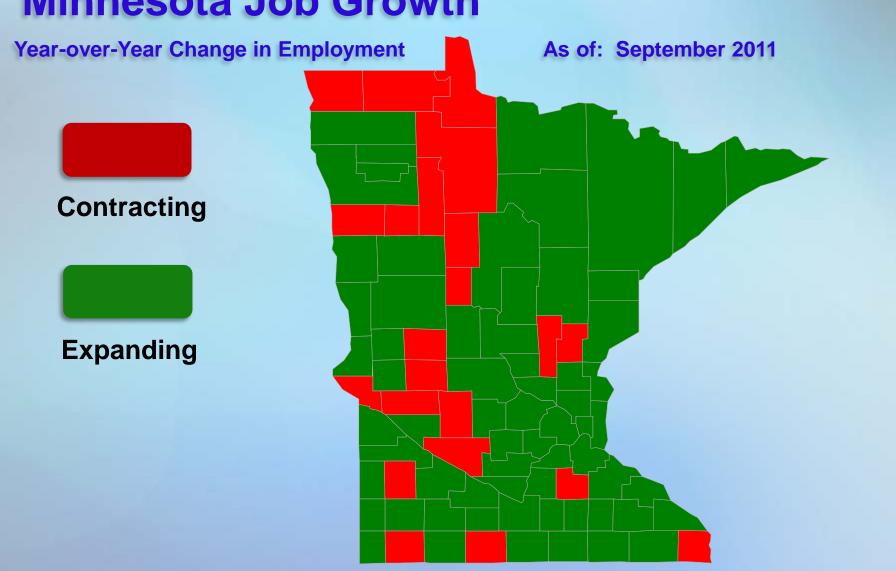
Minnesota Unemployment



Source: BLS



Minnesota Job Growth

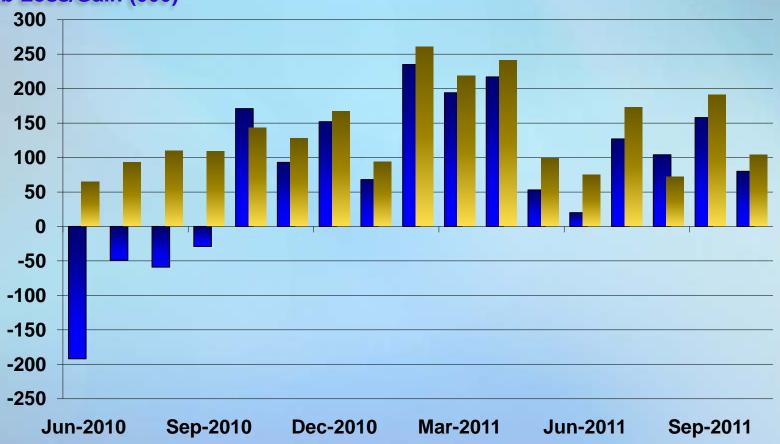


Source: BLS



U.S. Job Growth a little better than reported...





Source: BLS

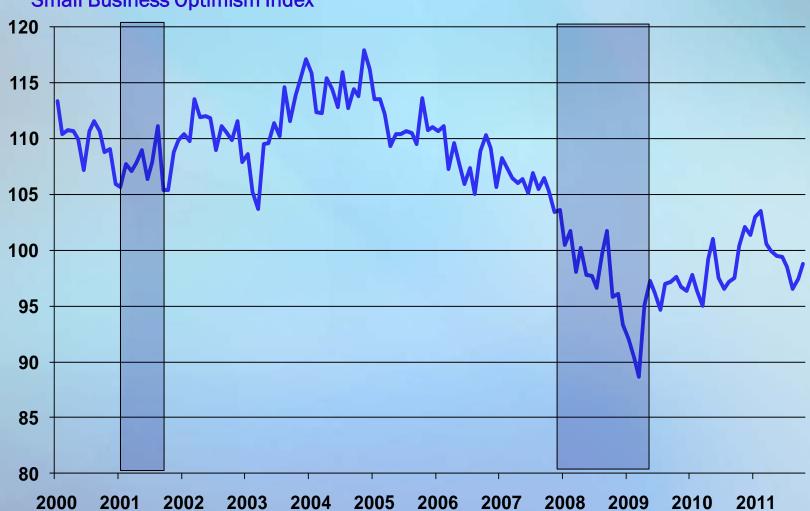
Net Job Growth

Private Sector Job Gr.



Businesses Remain Cautious...

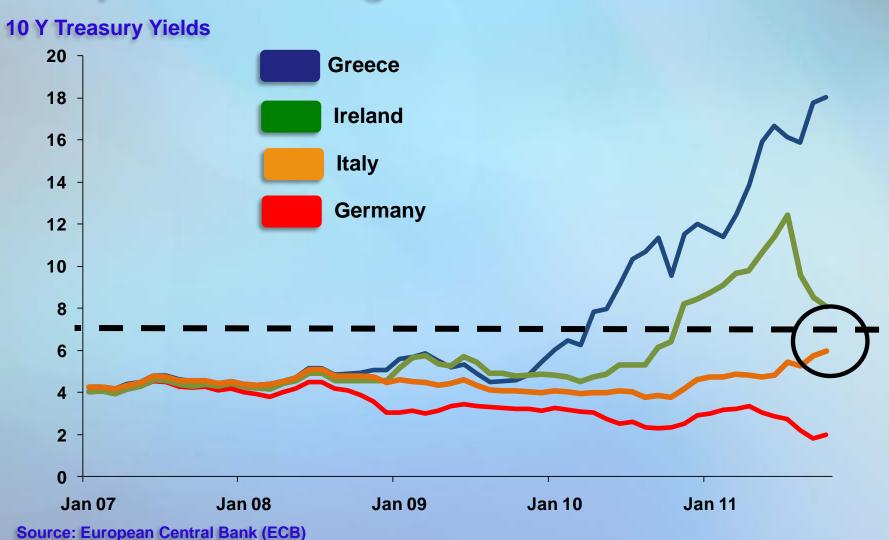




Source: National Federation of Independent Businesses

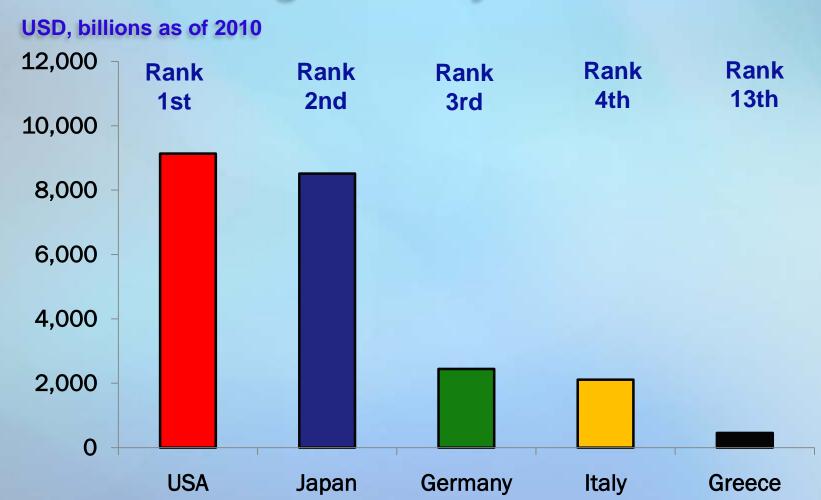


European Sovereign Debt Concerns





Total Sovereign Debt by Nation



Source: CIA 2011 World Fact Book

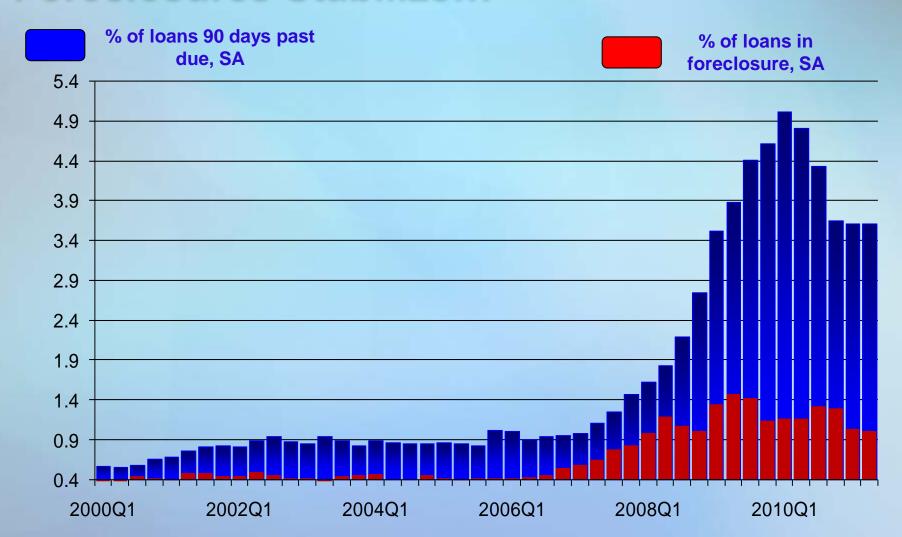


Residential Construction





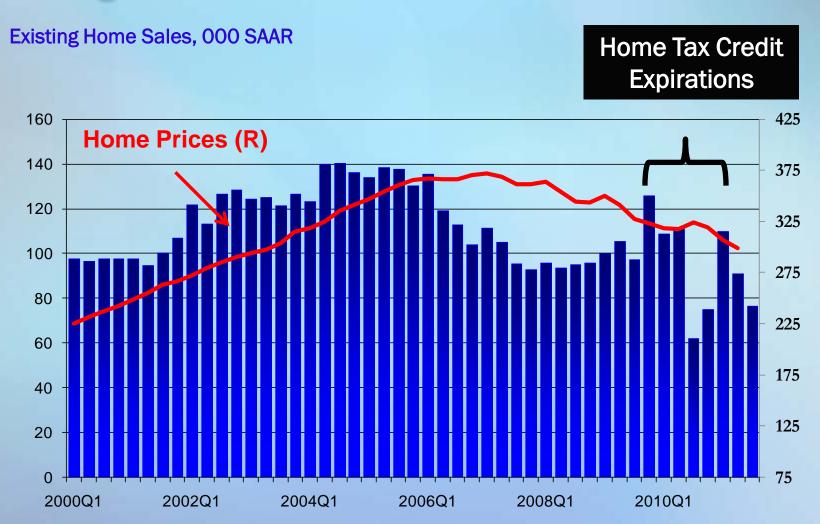
Foreclosures Stabilize...



Source: Mortgage Bankers Association



Existing Home Sales - Minnesota



Source: National Association of Realtors



Minnesota Home Prices Undervalued...?

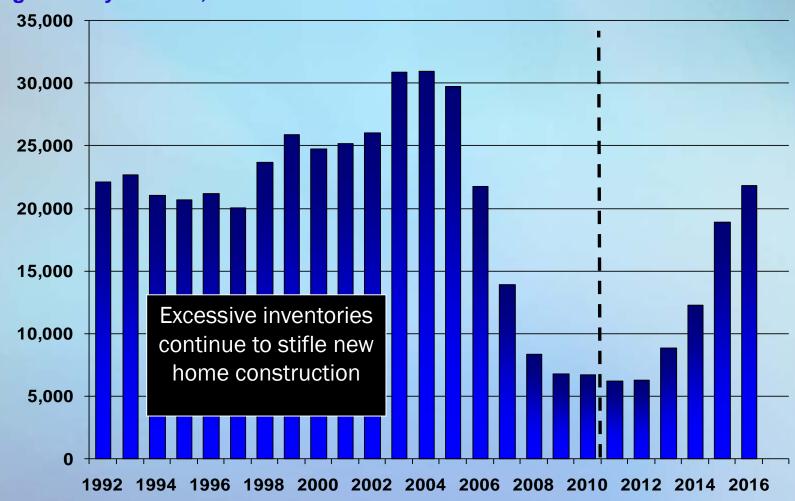


Source: Census



Single Family Construction: Minnesota

Single Family Permits, Units



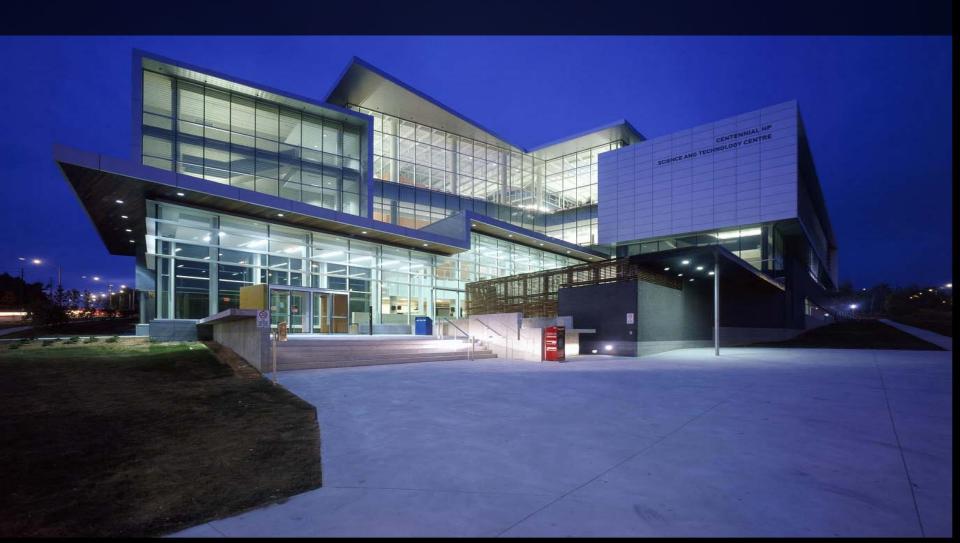


SF: Coiled Spring or Structural Change?



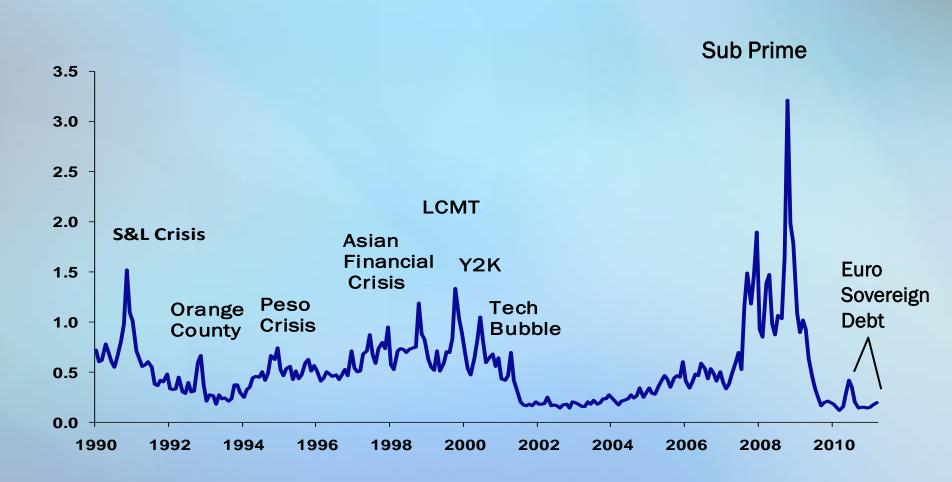


Nonresidential Construction



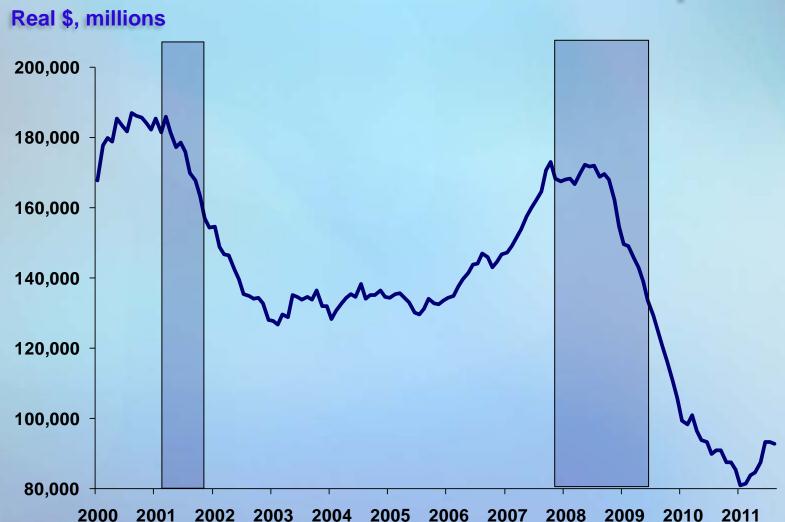


Risk of Eurozone Contagion? ... Yes & No





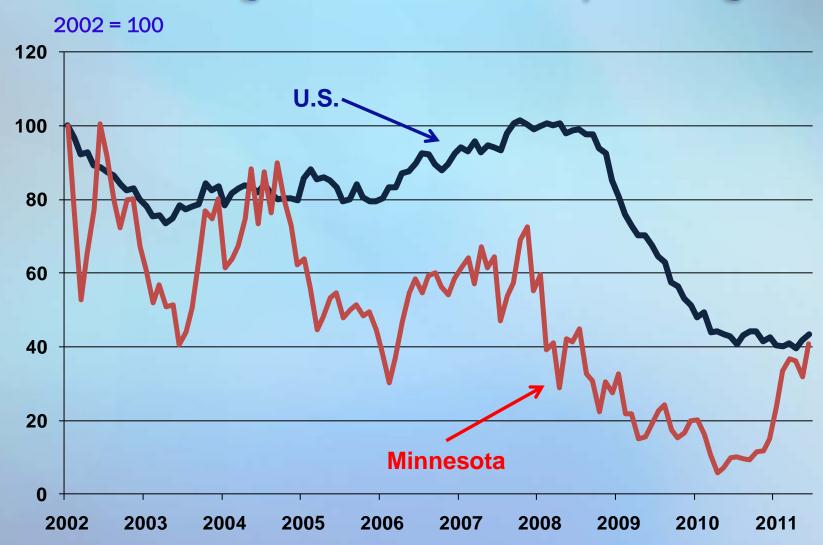
U.S. Nonresidential Construction Spending



Source: Moody's Investors Services



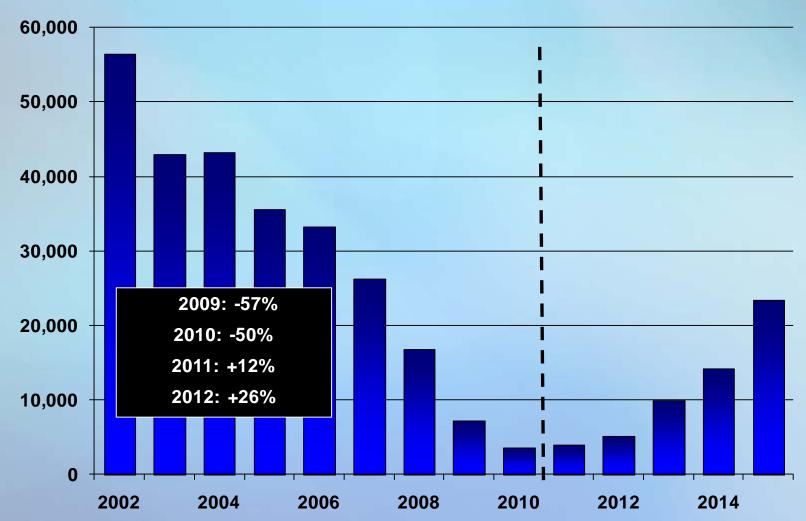
Office Building Construction Spending





Office Outlook- Minnesota

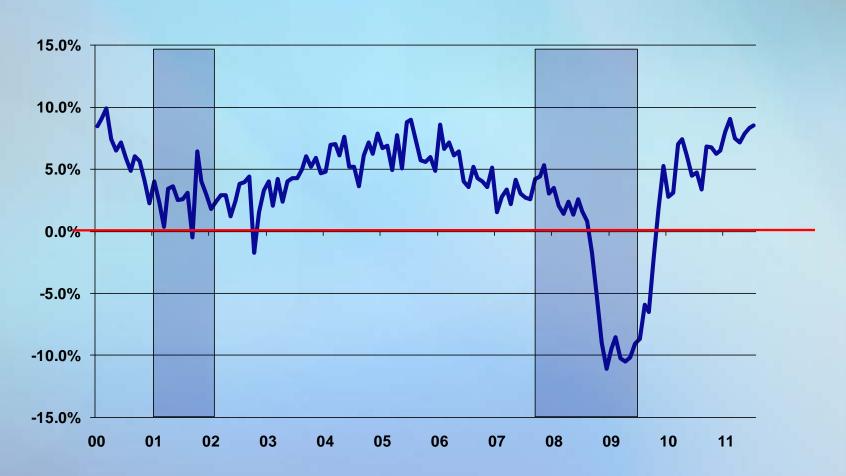
Cement Consumption - Metric Tons





Retail Sales Have Recovered...

Annual Percent Change

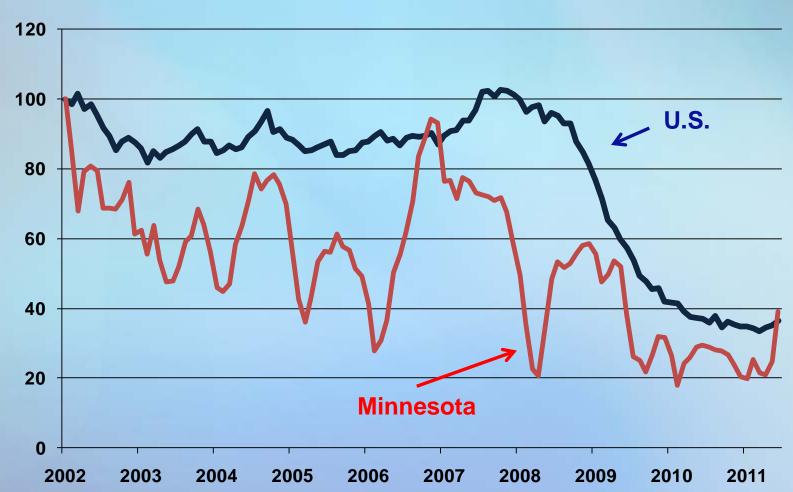


Source: U.S. Census Bureau



Retail Building Construction...

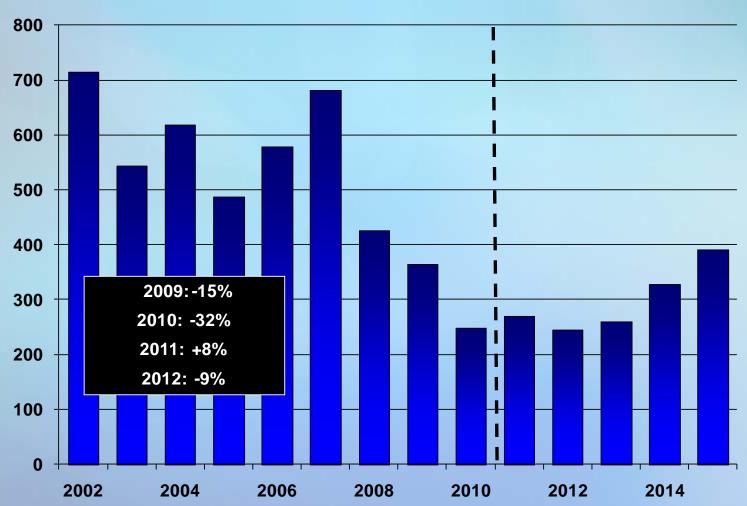
\$, Millions, Real 1996 Dollars

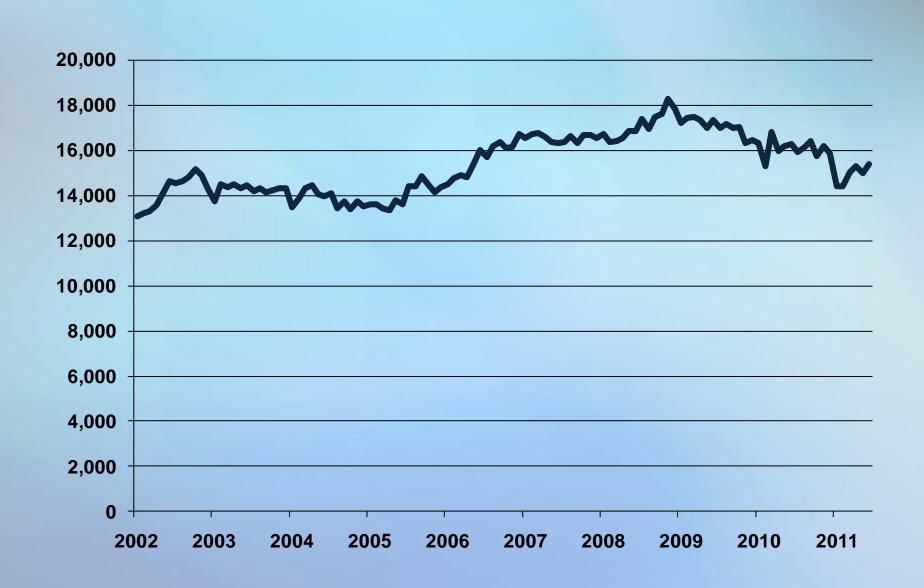




Retail Outlook- Minnesota

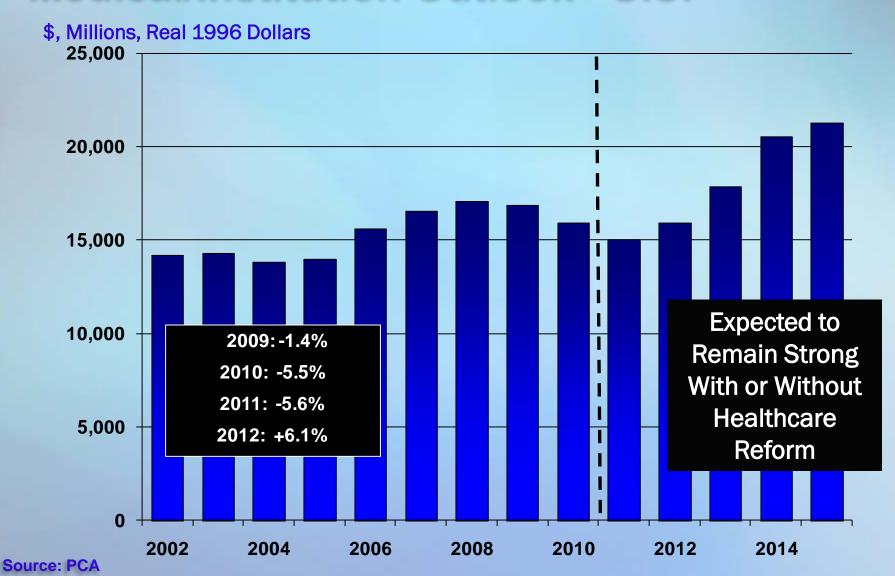
\$, Millions, Real 1996 Dollars







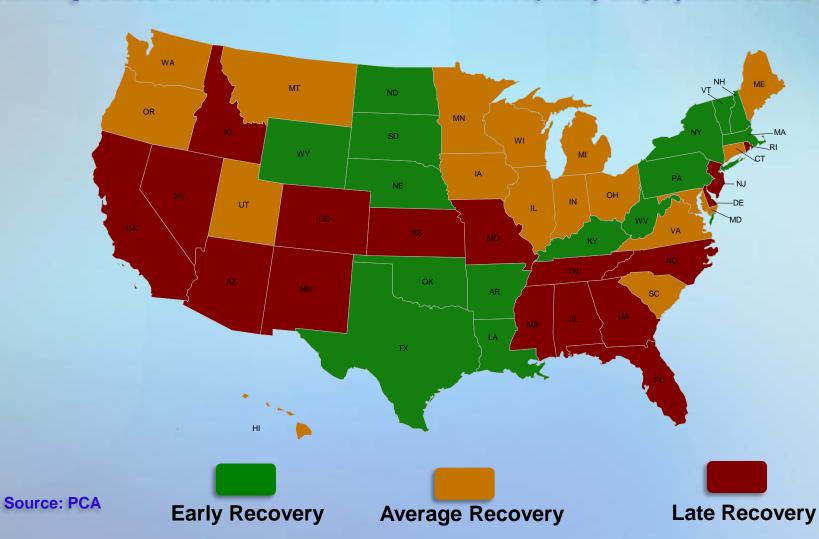
Medical/Institution Outlook- U.S.





Commercial Construction - Order of Recovery

Rankings based on: Office, Industrial, Retail and Hospitality Employment Trends



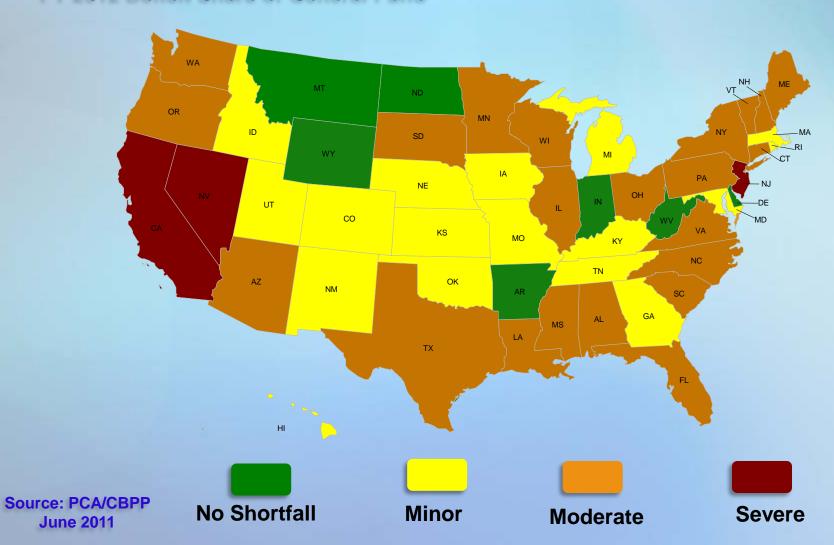






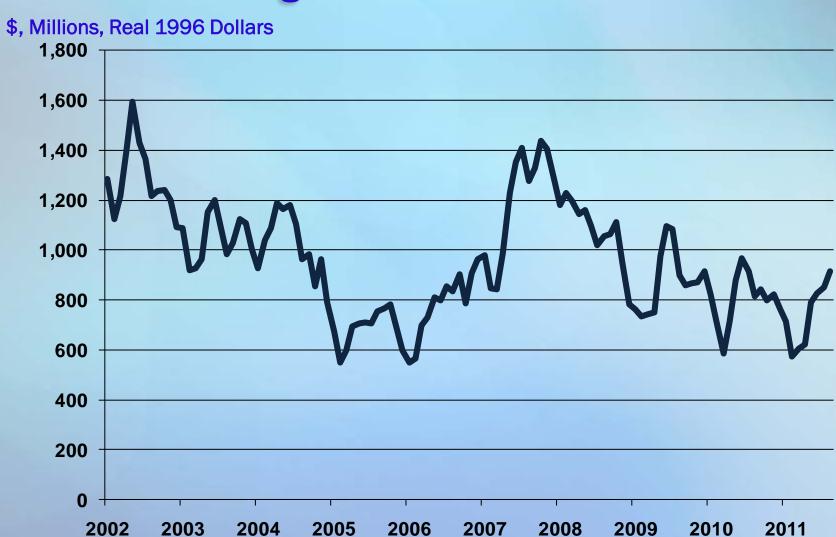
State Fiscal Conditions

FY 2012 Deficit Share of General Fund





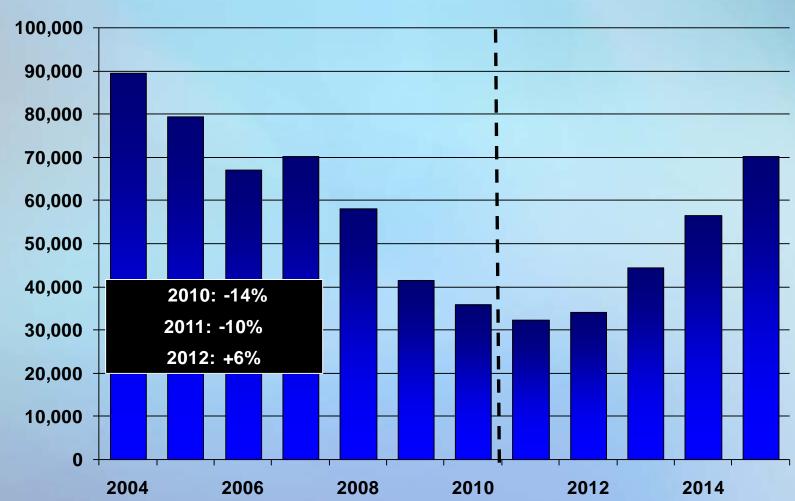
Public Buildings





Public Building Outlook - Minnesota







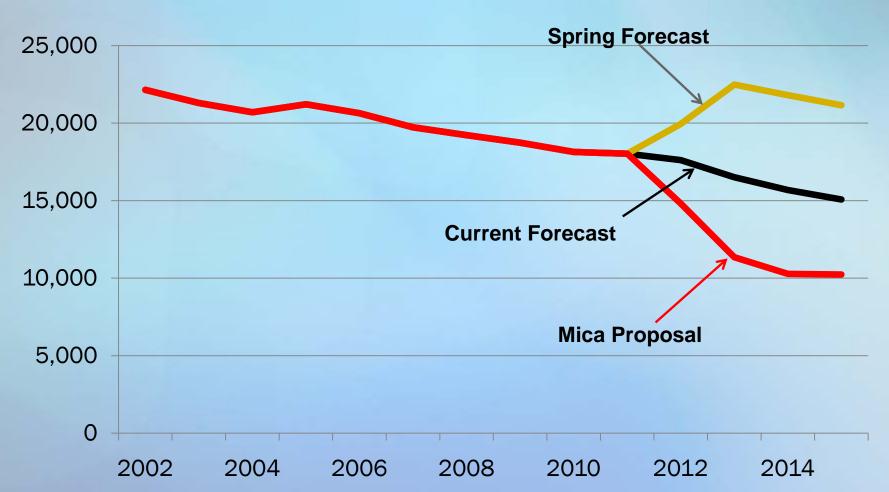
Federal Highway Funding

- Stimulus has run its course.
 - 83% of stimulus funds spent nationally
 - 97% of Minnesota's stimulus funds spent
- Federal Highway Bill (SAFETEA-LU) Expired 2009
 - 8 Extensions since bill expired
 - Next Deadline March 30, 2012
- Outlook for next bill—No Funding Increase (Possible Cut)
 - Minimum of 20% increase necessary to maintain buying power.
- Potential Jobs Bill
 - \$100 billion infrastructure investment
 - Funding is would largely mirror ARRA



Highway Bill Cement Consumption

Scenarios: Spring Vs. Current Outlook



Source: PCA



Highway Outlook - Minnesota

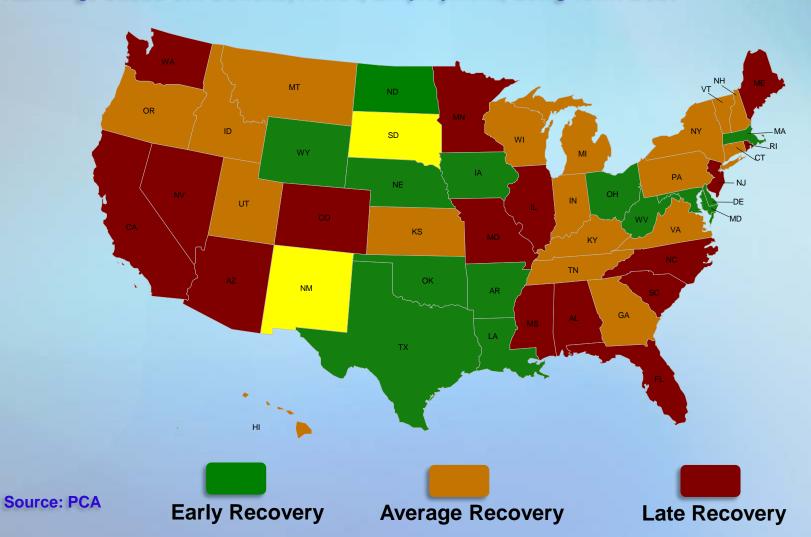


Source: PCA



Public Construction - Order of Recovery

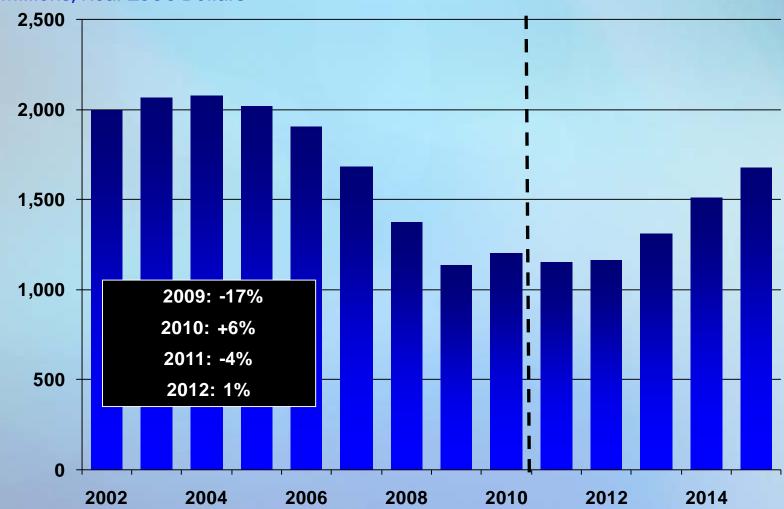
Rankings based on: Deficits, ARRA, Employment, Long-Term Debt





Total Cement Consumption – Minnesota

\$, Millions, Real 1996 Dollars



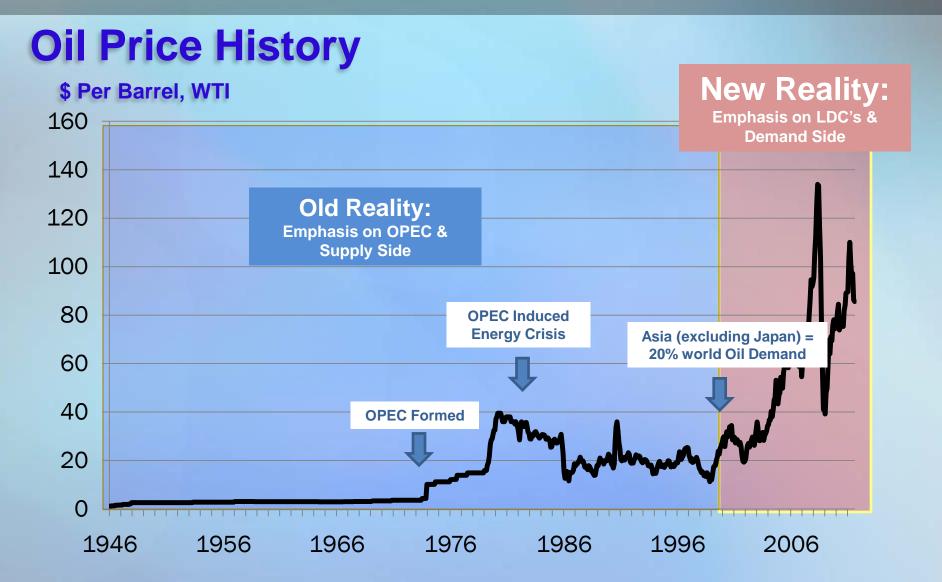
Source: PCA



Paving New Realities







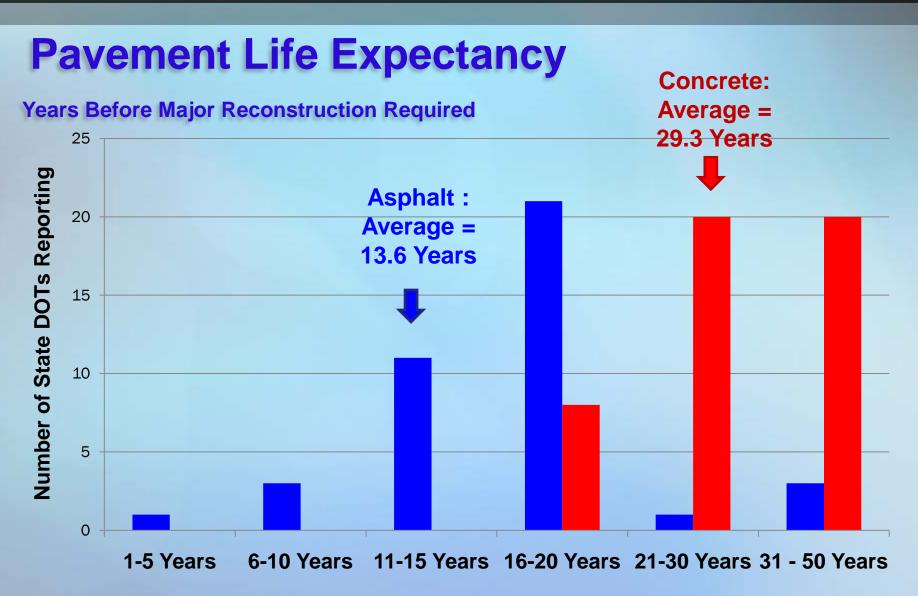
Source: U.S. Energy Information Agency





Source: Bureau of Labor Statistics, Producer Price Index

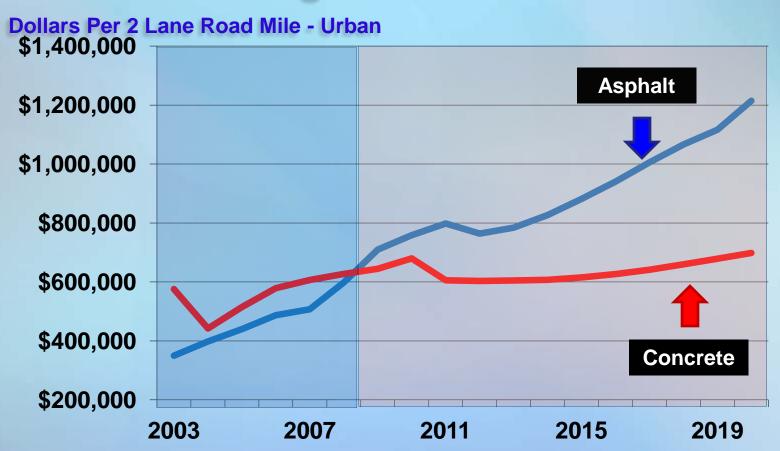




Source: PCA 2008 Highway Pavement Report



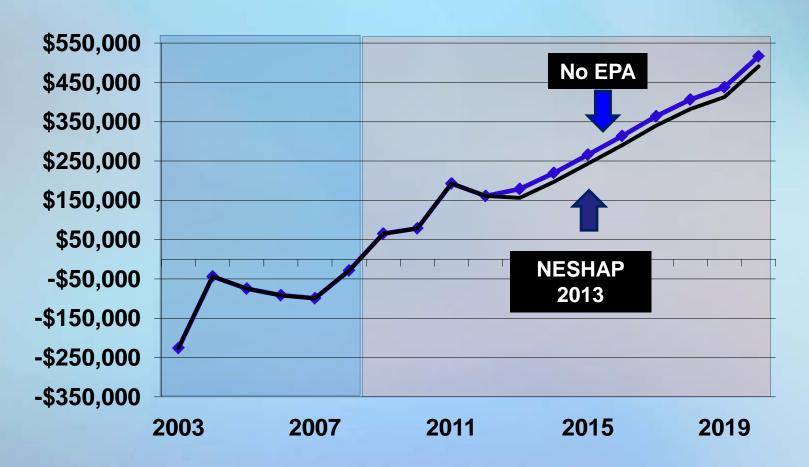
Initial Bid Paving Costs



Source: PCA estimates using Wispave (Wisconsin DOT paving cost software)



Concrete's Initial Bid Cost Savings Vs. Asphalt



Source: PCA estimates using Wispave (Wisconsin DOT paving cost software)



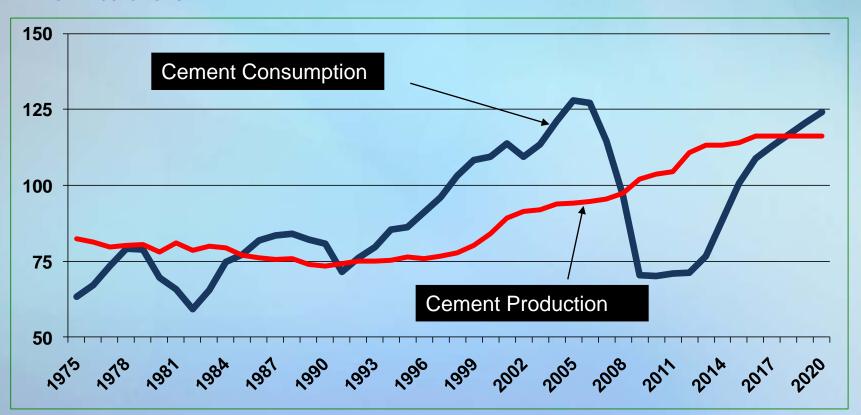
Regulatory Impacts

Most Significant Threat To Domestic Cement Production in History



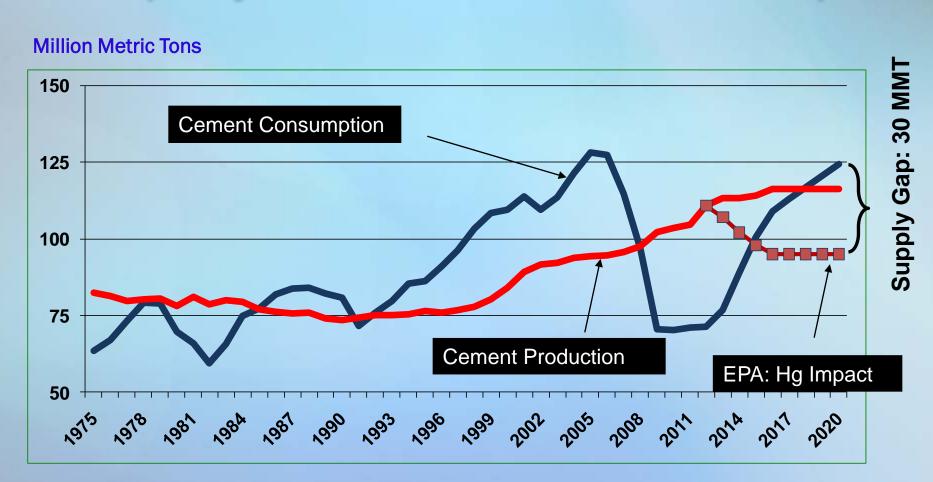
U.S. Capacity Outlook: No New Capacity Expansions Planned

Million Metric Tons



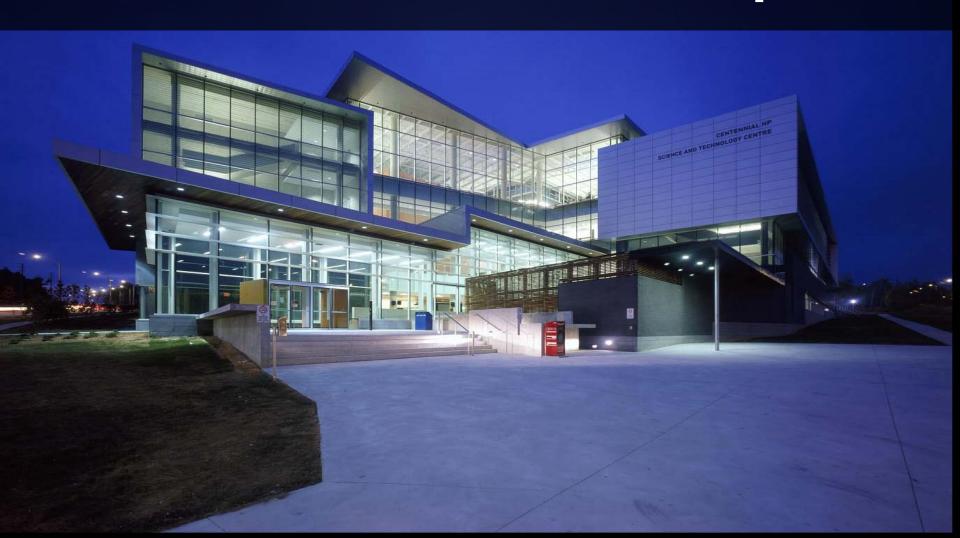


U.S. Capacity Outlook: Potential NESHAP Impacts





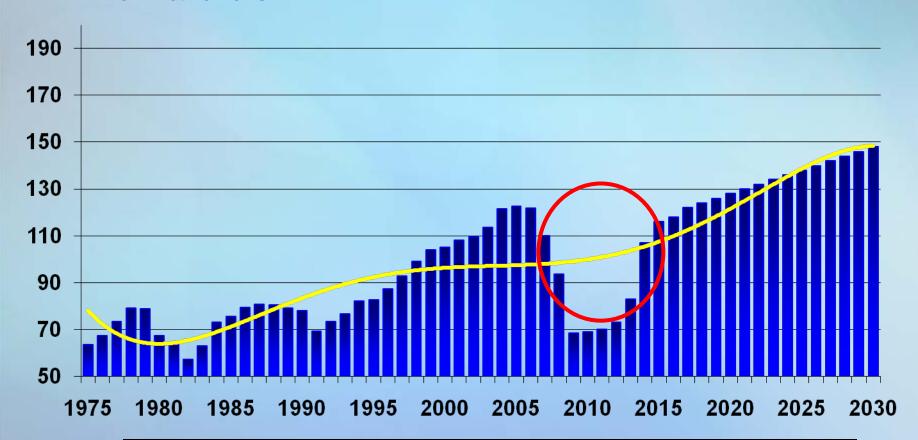
Take a Step Back...





Cement Consumption: Long-Term





Growth in Context of Population Changes, Pent up Demand, Competitive Advantages and "Green" Revolution.



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