The State of the Nation's Housing

Eric S. Belsky

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Existing Home Sales Improved then Retracted, While New Home Sales Are Still in the Basement



Single Family Home Sales (Thousands, SAAR)

Sources: US Census Bureau; National Association of Realtors (R) through Feb 2010



Home Building May Have Bottomed, But At Very Low Levels



→ Total → Single Family

Source: US Census Bureau through February 2010



Only Single Family Starts Sustained Its Rebound into 2010

Indexed Quarterly Value (Jan 2009 = 100)



Sources: US Census Bureau; National Association of Realtors.

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Home Prices May Be Stabilizing



Note: All prices are seasonally adjusted and inflation adjusted using the CPI-U for All Items. Sources: S&P/Case-Shiller 20-city composite house price index (SA); National Association of Realtors (R), median single family home price (SA, in thousands); Federal Housing Finance Agency, purchase-only house price index (SA).

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Housing Affordability Is the Biggest Plus - And Interest Rates Matter



Notes: Monthly mortgage costs assume a 10% downpayment and Freddie Mac conventional 30-year fixed interest rates, and are adjusted for inflation by the CPI-U for All Items. Metro areas evaluated are the 79 metros in the National Association of Realtors® series for which there are data from every quarter 1989-2000 and 2009:3.

Sources: JCHS calculations using the National Association of Realtors®, Median Existing Single-Family House Price and Moody's Economy.com, Average Household Income. Harvard University

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The Road to Recovery



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Home Building Recoveries: The Top Line

- Takes sustainable turnaround in new home sales to bring single-family starts back – (it's the demand)
- New home sales are the "Punxsutawney Phil" of housing and economic recoveries
- Employment growth lags new home sale turnarounds, typically by two quarters
- Only 1 recovery of last 4 failed after GDP turned around coming out of a recession
- It took a Fed-engineered spike in interest rates to derail the recovery, small increases in rates or home prices have not

Lasting Turnarounds in New Sales Started Just Before Sustained Turnarounds in GDP Growth



--- New Home Sales • True Trough • Possible False Bottom

Note: Lightly shaded areas mark official recessions. Darkly shaded areas mark beginning of sustained recoveries in real GDP at ends of recessions.

Sources: US Census Bureau; US Bureau of Economic Analysis



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Signs of Lasting Turnarounds in New Home Sales



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Before Sales Bottom:

- Nominal mortgage rates were falling
- Real monthly payments were falling
- Inventory of new homes for sale were in decline several quarters

After Sales Bottom:

- Real GDP turned positive two quarters after new sales trough
- Total employment hit bottom two quarters after new sales trough
- GDP growth remained positive for next 8+ quarters of sales recovery
- Once employment turned, stayed positive at least 5 more quarters
- Inventory of new homes bottomed 1-6 quarters after turnaround



Past Rebounds in New Home Sales Lasted 4 Quarters Before Any Noticeable Declines, Failed Recovery Did Not

Lasting Recoveries

Failed Recovery



Source: JCHS tabulations of US Census Bureau data

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Strength of Employment Growth Has Mattered Most to The Strength and Sustainability of Past Starts Recoveries



Growth in Employment Through First 8 Quarters after Trough in New Home Sales (Percent)



Growth in Total Starts Through First 8 Quarters after Trough in New Home Sales (Percent)

Employment Losses This Recovery Are Staying Worse Longer



Falling Mortgage Interest Rates Have Given Less Lift to Sales Following the Current Trough



Source: JCHS Tabulations of Freddie Mac 30 Year Fixed Conventional Conforming Mortgage Rates

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But Nominal Rates This Time Are At Very Low Levels





Among Metros with Large Cyclical Permit Declines, It Took 3 Years Before Worst Decliners Saw Stronger Rebounds



Conclusions

- Key indicators of real turnaround in new home sales in place → except for timing of employment rebound
- Strength of the recovery is likely to depend on the timing and strength of job growth → key to watch
- The size of metro permit rebounds in the first years of last recovery were not related to size of prior declines
- The headwinds this time are strong and without precedent high foreclosures/tightened standards
- Last quarter's decline in new home sales bears noting
- History is an imperfect guide, but it's all we get
- Consensus forecasts by others call for about 700,000-750,000 starts in 2010 and 1.0-1.15 million in 2011

The Pipeline of Serious Delinquencies Is Still Rising

Share of Loans 90+ Days Delinquent or In Foreclosure (%)



Source: Mortgage Bankers Association

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Lending Standards Even in the Prime Market Have Tightened Dramatically

Share of GSE Originations (Percent)



Note: "Good" Loans Defined as all other loans not having high LTV & low FICO nor Low LTV & High FICO. Source: Barclays Capital. GSEs: Back to the Future, US Interest Rates Strategy, 11 December 2009. Harvard University

Nominal Annual Price Declines Have Been More Severe and Widespread than Any in Recent History

Share of the 73 Metros Covered by CMHPI since 1975



■ Less than 1 Percent □ 1 to 5 Percent □ Greater Than 5 Percent

Note: Metros included are the 73 Metros fully covered by CMHPI data since 1975. Annual values are averages of quarters.

Source: JCHS tabulations of Freddie Mac CMHPI data.



Estimating Long-Run Demand

- Estimates are of *long-run sustainable demand – not a prediction of actual completions and placements*
- Actual construction influenced by under or over supply entering and exiting the period
- Household growth projected under two immigration assumptions and with headship rates held constant
- Two methods used for vacancies and net removals
 - Each projected separately and conservatively
 - Using average ratio of completions plus placements to household growth for ten-year periods ending 1994-1998 (which contains the 87-91 housing cycle)

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Recently Headship Rates for Younger Adults have **Declined Slightly and Older Adults Have Increased** Slightly, but...



Lessons Learned and Applied to New 2005-2025 Projections." Harvard University JCHS Workind Harvard VOAiversity



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Immigration Has Become an Increasingly Important Driver of Household Growth

Foreign Born's Share in Total Household Growth



Source: JCHS tabulations of the 1980, 1990 and 2000 decennial Censes, and the 2005 American Community Survey.

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Household Growth Is On A Higher Path But Immigration Is The Key Wildcard



Notes: To adjust for rebenchmarking, household growth in 2002-2003 is assumed to be the same as the average annual growth in 2000-2005. JCHS projections using 2008 US Census Bureau Population projections. Sources: US Census Bureau, Housing Vacancy Survey; JCHS Working W09-5.

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Summary of Findings

- Projection of separate elements yields 2010-2020 estimates of between 17.2 (low immigration) and 19.7 million (high immigration)
- The historic ratio of completions and placements to household growth yields 2010-2020 estimates of between 17.1 and 20.2 million
- Important caveats:
 - Projections of demand for single and multifamily homes completed + manufactured homes placed
 - Assumes enter and exit the period in market balance
 - Odds of being in perfect balance in both periods low
 - No ironclad measures of when markets are in balance
- Think of as underlying current of demand

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Impact of Entering Oversupply Assumptions on Projections for 2010-2020

(With Markets Assumed to be in Equilibrium by 2020)

Assumed Oversupply Entering 2010	Average Annual Completions & Placements 2010-2020 needed to maintain long-run average
Baseline	1.72 - 1.97 Million
500 Thousand	1.67 – 1.92 Million
1.0 Million	1.62 – 1.87 Million
1.5 Million	1.57 – 1.82 Million

Notes: Ranges of annual average completions needed to maintain long-run average 2010-20 determined by applying both JCHS 2009 low and high household projections. Sources: US Census Bureau, JCHS Household Projections, JCHS Working Paper W09-5; JCHS Working paper W07-7.

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Had Actual Demand Held Up to Long-Run Levels, Oversupplies Entering 2006 Would Have Been Worked Off



Completions & Manufactured Home Placements

Accumulated Excess Units - Conservative Demand Estimate

Accumulated Excess Units - Agressive Demand Estimate

Notes: Finished Units are the sum of housing completions and manufactured home placements.

Sources: JCHS Calculations of data from the US Census and JCHS Research Note N09-1.



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Owner Improvement Growth Exceeded Expectations 2000-2006 But Now Below Trend Line



categories.

Sources: JCHS tabulations of data from the US Census Bureau, American Housing Survey, and JCHS Household Projections; JCHS Working Paper W07-6.

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