

Woodman-Scheller Israel Studies International Program

Calculating the Housing Wealth Effect of Israeli regional cohorts

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Working Paper Housing Wealth Effect Proposal

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Abstract

Uses pseudo-panel construction to calculate the housing wealth effect for regional cohorts of Isreali households. Combines data from the Central Bureau of Statistics Household Expenditure Survey and the Consumer Price Index.

Keywords: consumption, economics, housing, housing market, liquidity constraints, wealth effect

1 Introduction

1.1 The housing market

The study of housing provides a fascinating topic for the researcher of Israeli society. Several factors have drawn attention to the housing market and made it a topic of much discussion. The price of housing was one of the main issues that drove more than 400,000 demonstrators to the streets in the summer of 2011. Large portions of the Israeli population own a home, or rent one, or live in a multi-family household. Their first-hand experience of the market may be relayed to the researcher as anecdotal evidence of the state of the housing market, as well as causes and solutions for the perceived short-comings of the market.

In a simple economic model of the housing market, house prices are set by the market forces of supply and demand. Various influences on suppliers of housing (current owners who choose to sell, builders of new housing), and those who demand housing (commonly characterized as young couples) will shift the supply and demand curves and affect the market-clearing price level. Consider an interest-rate reduction, this shifts the demand curve to the right, as cheaper credit causes more buyers to enter the market. It also reduces credit-constraints on builders and leads to increased supply, albeit after some lag.

The average house price has risen by an astonishing 80% between the 2008 global financial crisis and 2016. In the minds of many lay observers this indicates a lack of supply, with main bottlenecks limiting supply being cited as the sale of government land or the lengthy permitting process for new construction.

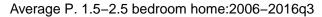
Gruber (Gruber 2016), however, offers copious evidence and cogent reasoning to support his claim that the chief factor in the rise was actually excessive demand. As global capital markets suffered large declines investors moved to other asset classes, including the real estate market. The additional factor of low interest rates lead to a dramatic increase in purchase of additional houses by those who were already owner-occupiers. This shifted the demand curve to the right, increasing the average cost of an apartment and driving out less affluent first-time homebuyers. These would-be first-time homebuyers then entered or remained in the rental market, driving up average rents. The higher

market rental prices and lowered vacancy rate established a feedback loop which further encouraged in the purchase of investment houses as rental property. ## Consumption by Households The expenditure method for calculating National Income (Y), states that Y=GDP=C+I+G+NX. The gross domestic product is equal to Consumption Expenditure (C) plus Investment Expenditure (I) plus Government Expenditure (G) plus Net Exports (NX). Firms and households each engage in both consumption and investment. When a firm buys a copy machine which lasts several years, that is an investment, so is the purchase of owner-occupied housing, in fact it's one of the chief investments made by households. The paper placed in the copy machine and the food on the table are each classified as consumption. Consumption by households makes up a large and important part of GDP. It is a measure tracked closely by businesses, economists and the government. You may have heard the nightly news announce the latest retail-sales data. Household income is either saved or consumed, with the marginal propensity to consume (MPC) and the marginal propensity to save (MPS) summing to 1. Generally household consumption can be understood as household income times the MPC. The MPC can be affected by the interest rate, rising interest rates incentivize additional savings, raising the MPS and lowering the MPC. Falling interest rates decrease the attraction of savings. With a constant MPC a household can increase consumption due to increased income from a salary increase, hourly wage increase or increase in the number of hours worked. Household consumption would fall due a decrease in salary, wages or working hours. A further factor in consumption is expected future income. This posits that the rational consumer increases their consumption now if they know that they will get a raise or some overtime next week. They will also reduce consumption and increase savings now when they expect future unemployment or wage reductions. Another factor affecting consumption is the wealth effect. When the wealth of a household increases (the price of shares held in an investment portfolio, the price of Picasso on the wall or in a vault, the price of the family home or rental property), household consumption increases, in effect spending now some of the expected future gains on the sale of the shares, painting or real estate. Conversely, a decline in household wealth should produce a decline in household consumption and GDP.

1.2 the wealth effect, or wealth effects?

This study combines household level consumption data with housing price data to estimate test the hypothesis that different age cohorts have different wealth effects. It has been postulated that older households will have a higher wealth effect, or larger proportional change in spending in response to a change in wealth than a younger household. The available consumption data from the Household Expenditure Survey provides us with a means to test this hypothesis.

Consider the pretty data plotted in Figure 1.



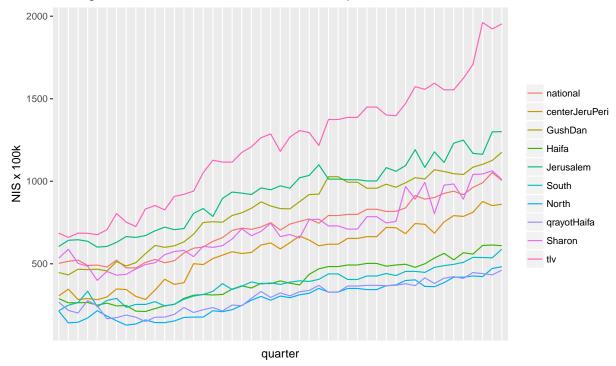
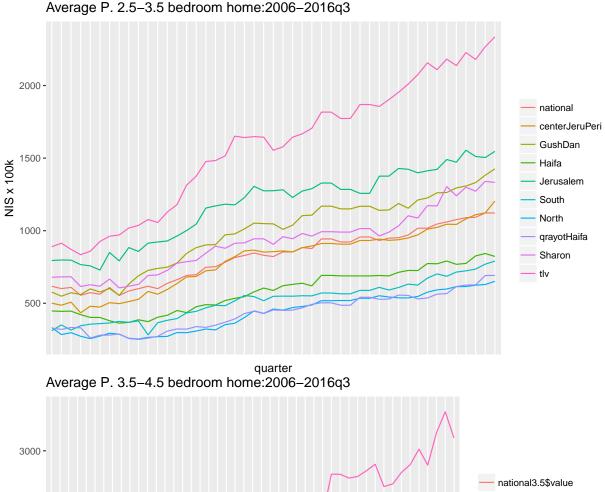


Figure1: I wrote this.

Average P. 2.5-3.5 bedroom home:2006-2016q3



centerJeruPeri3.5\$value GushDan3.5\$value

Haifa3.5\$value Jerusalem3.5\$value South3.5\$value North3.5\$value

References

Gruber, N (2016). The Israeli Housing Market: Approaching a Turnaround. Shoresh $Research\ Paper$. Ed. by D Ben-David, 20.