



Economic Stress Index™





About LegalShield



#1 Provider of subscription-based legal plans to households



1.8 million+ memberships paying monthly via credit card/ debit card/payroll deduction



49 year history and counting



47,000 small business accounts



6,900 broker & agency clients served by our dedicated B2B division



39 law firms in 50 states, Canada and the United Kingdom with a total of 900 lawyers, and a referral network of 4,600 lawyers, with average of 22 years experience



About the LegalShield Economic Stress Index

- ✓ The LegalShield Economic Stress Index is a suite of leading indicators of the economic and financial status of U.S. households and small businesses.
- ✓ The LegalShield Economic Stress Index is comprised of five sub-indices that are constructed from LegalShield's proprietary data, which reflect the demand for various legal services over the past 15+ years. Each time a LegalShield provider law firm receives a request from a LegalShield customer, the request is logged as an "intake" in one of roughly 70 unique areas of law (e.g., real estate) depending on the nature of the request.
- ✓ Each sub-index reflects the number of intakes in an area of law as a share of total intakes across all areas of law in a given quarter. In some instances, individual indices across multiple areas of law (e.g., bankruptcy, foreclosure, consumer/finance) are combined to produce a composite index (e.g., consumer financial stress).
- ✓ The sub-indices that comprise the LegalShield Economic Stress Index were selected because they tend to lead an existing economic indicator that sheds light on the health of the U.S. economy (i.e., the target economic indicator). In this way, the LegalShield Economic Stress Index provides actionable intelligence about the direction of the U.S. economy in the near term.

Advantages of the LegalShield Economic Stress Index



UNIQUE

The LegalShield Economic Stress Index is based on inquiries into specific legal services each month. To the best of our knowledge, there is no comparable data on the market.



PROPRIETARY

The LegalShield Economic Stress index is based on data collected through LegalShield's provider law firms in all 50 states, thereby offering information that is not accessible to the general public.



HIGH-FREQUENCY

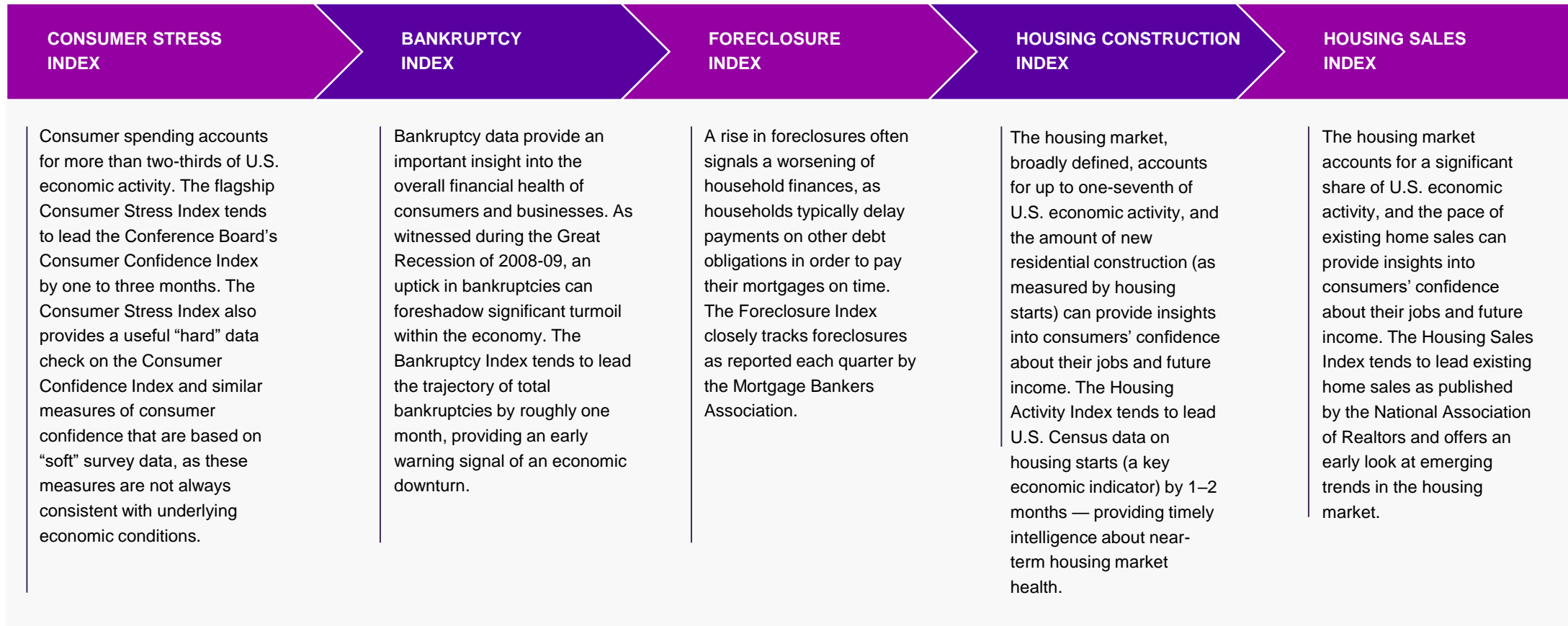
The LegalShield Economic Stress Index is based on data collected on a near real-time basis, and can be refreshed on a weekly, monthly, or quarterly basis depending on the user's needs.



ROBUST

The LegalShield Economic Stress Index is based on intakes for more than 1.8 million memberships (including individuals and small businesses), providing a window into the experiences of families and businesses across the country at any given point in time.

Interpreting Each Component of the LegalShield Economic Stress Index





Consumer Stress Index

Bottom Line: The LegalShield Consumer Stress Index edged up in October for the second consecutive month. Rising interest rates and persistent inflation remain strong headwinds for consumers continues to put upward pressure on consumer stress. However, the labor market remains strong, and consumers appear equipped to handle these headwinds for now.

Latest Reading: In October, the LegalShield Consumer Stress Index increased (worsened) 1.3 points to 62.7 and is now up more than 11% on the year. However, the current reading is still low by historical standards. Meanwhile, the Conference Board's Consumer Confidence Index worsened 5.3 points to 102.5 after improving the prior two months.

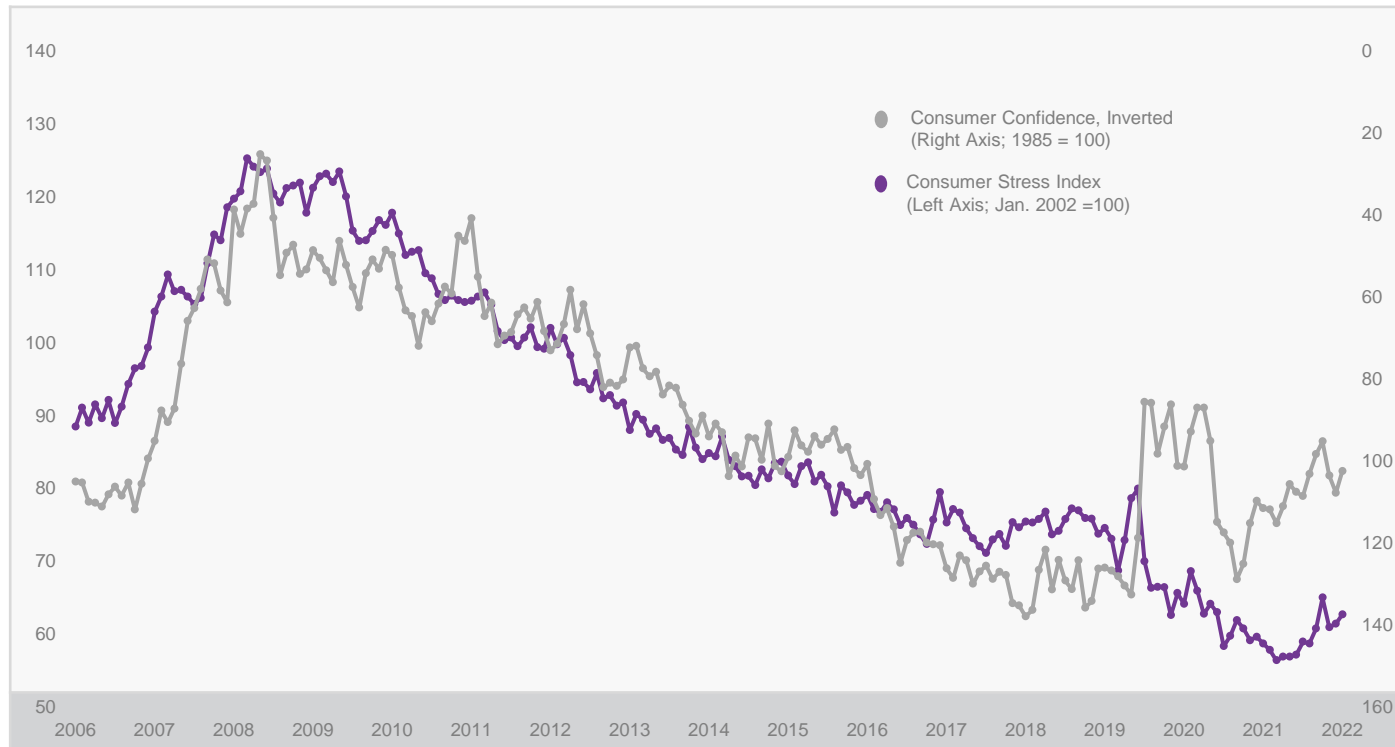
Economic Context: Inflation continues to chip away at consumer purchasing power as prices rise faster than wages. Average hourly earnings decelerated for the third consecutive month in October to 4.7% Y/Y — a pace that would normally be considered strong growth, but which is well below the current rate of inflation (7.7% Y/Y). Fortunately, the economy may have turned a corner with respect to price growth, as both headline inflation and core inflation (which excludes food and energy prices) eased in October. Nevertheless, there are signs that consumers are dipping into savings, looking for more work, or cutting back on spending in order to make ends meet:

- The personal savings rate has been below 4% since March and fell to 3.1% in September. (Note: in the 10 years leading up to the pandemic, the rate generally hovered between 5 – 9%.)
- Per [Qualtrics](#), over half of American workers are looking or planning to look for a second job to afford rising prices.
- December spending is expected to slow this year, with holiday spending [estimated](#) to grow 6–8%, roughly in line with inflation.

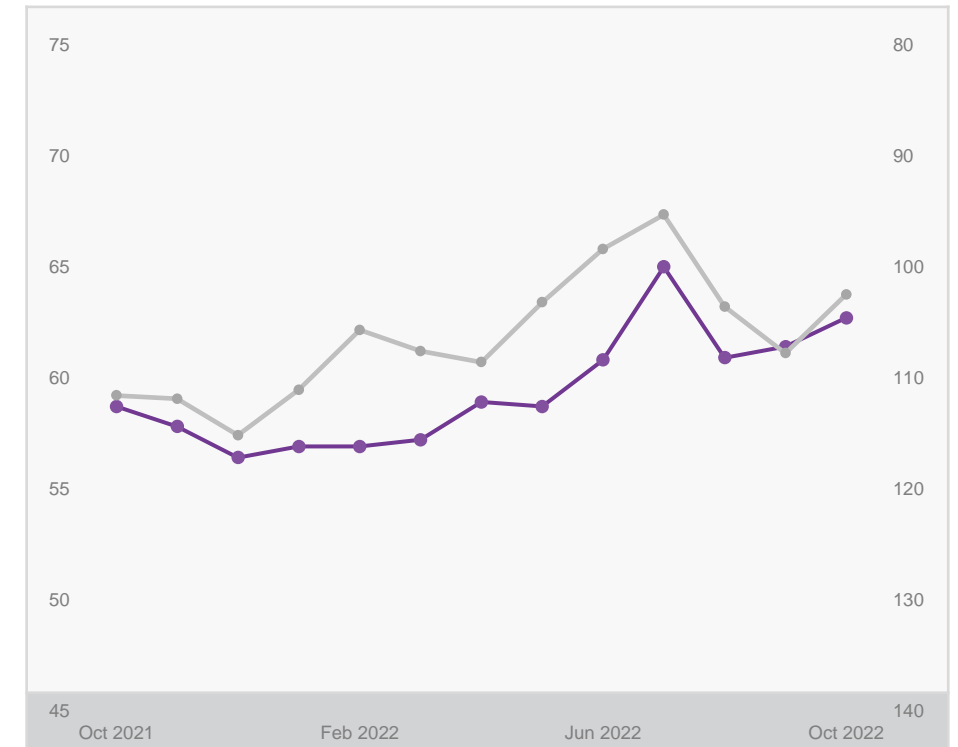
Despite these early signs of stress, jobs remain plentiful despite rising interest rates. In October, employers added 261,000 jobs to the economy, the number of open jobs available remains near an all-time high, and employer surveys continue to suggest strong demand for workers. As such, most consumers remain well-positioned to handle increased financial stress as it continues to build, and LegalShield does not anticipate a sharp increase in financial stress over the next 1 – 3 months.

Consumer Stress Index

Historical Trend Over Past 16 Years



Movement Over Past 12 Months





Bankruptcy Index

Bottom Line: In October, the LegalShield Bankruptcy Index worsened after improving the prior month. Given that the index remains at roughly half its pre-pandemic level, bankruptcies are likely to remain subdued in the fourth quarter.

Latest Reading: The LegalShield Bankruptcy Index increased (worsened) 5.2 points in October to 25.2, its highest reading of the year. In September, total seasonally adjusted bankruptcy filings worsened 2.0% to 32,322, up 4.5% from the year prior.

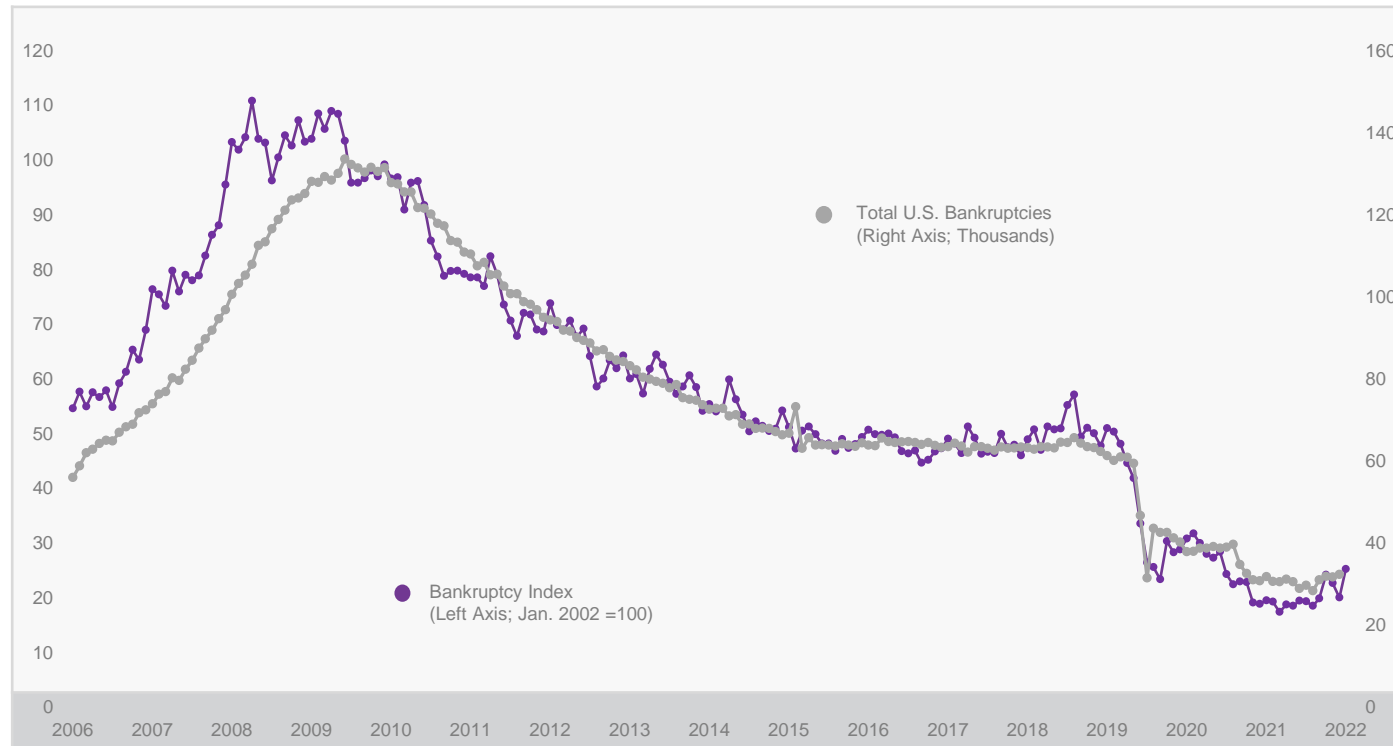
Economic Context: After plummeting during the pandemic, bankruptcies remain well below normal levels, and given the strong labor market and low debt delinquencies it is unlikely that they will rise substantially in the near term. Still, with economic headwinds continuing to build, there are signs that debt delinquencies could increase in the coming months, which could lead to a subsequent increase in bankruptcies over the next year. For example:

- Credit card debt is on the rise. Nominal credit card debt in the U.S. has reached \$887 billion (up 13% Y/Y), and high inflation is likely part of the reason why consumers are relying more on their credit cards to meet spending needs. Further, the Federal Reserve's efforts to tame inflation by raising interest rates will also drive credit card APRs higher, causing debt to accumulate faster.
- More than half of respondents relying on credit cards to make household payments are struggling to pay expenses, according to the [U.S. Census Bureau](#). This measure has risen more than 11 percentage points over the last year.
- Auto delinquencies continue to climb. In the third quarter, the share of auto loans that are 60+ days delinquent hit 1.65%, the highest rate in more than a decade ([CNBC](#)).

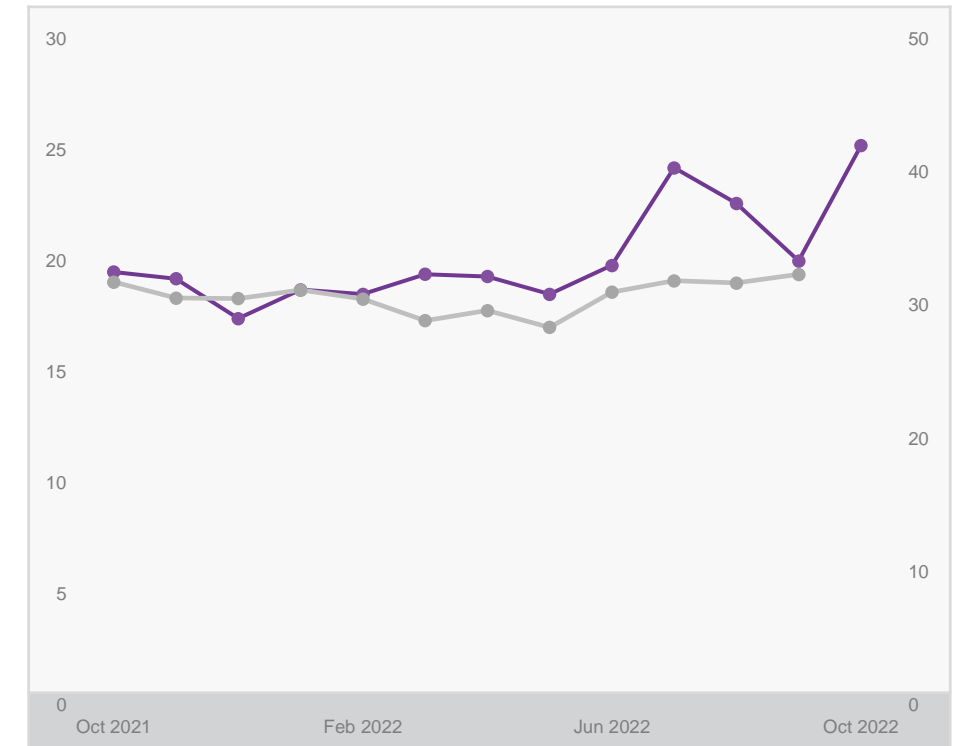
However, overall delinquency rates remain historically low. Given that consumers appear to be well positioned to handle their debt, it is unlikely that bankruptcies will rise dramatically in the coming months, an outlook supported by LegalShield data.

Bankruptcy Index

Historical Trend Over Past 16 Years



Movement Over Past 12 Months





Foreclosure Index

Bottom Line: The LegalShield Foreclosure Index improved in October after increasing slightly the prior month. The index remains well below its pre-COVID level, though activity has been gradually increasing since the pandemic-era foreclosure moratorium expired. A gradual normalization in foreclosure starts is expected in the months ahead.

Latest Reading: The LegalShield Foreclosure Index improved (decreased) 4.1 points to 35.3 in October after worsening in September. Meanwhile, ATTOM reports that foreclosure starts decreased to 31,836 in September, down 8% M/M but up 62% Y/Y.

Economic Context: Foreclosures remain historically low, though there are some signs that suggest they may increase in the year ahead. Two such signs of increased foreclosure activity are serious mortgage delinquencies and pre-foreclosure properties (e.g., “zombie” properties) which have both increased in recent months:

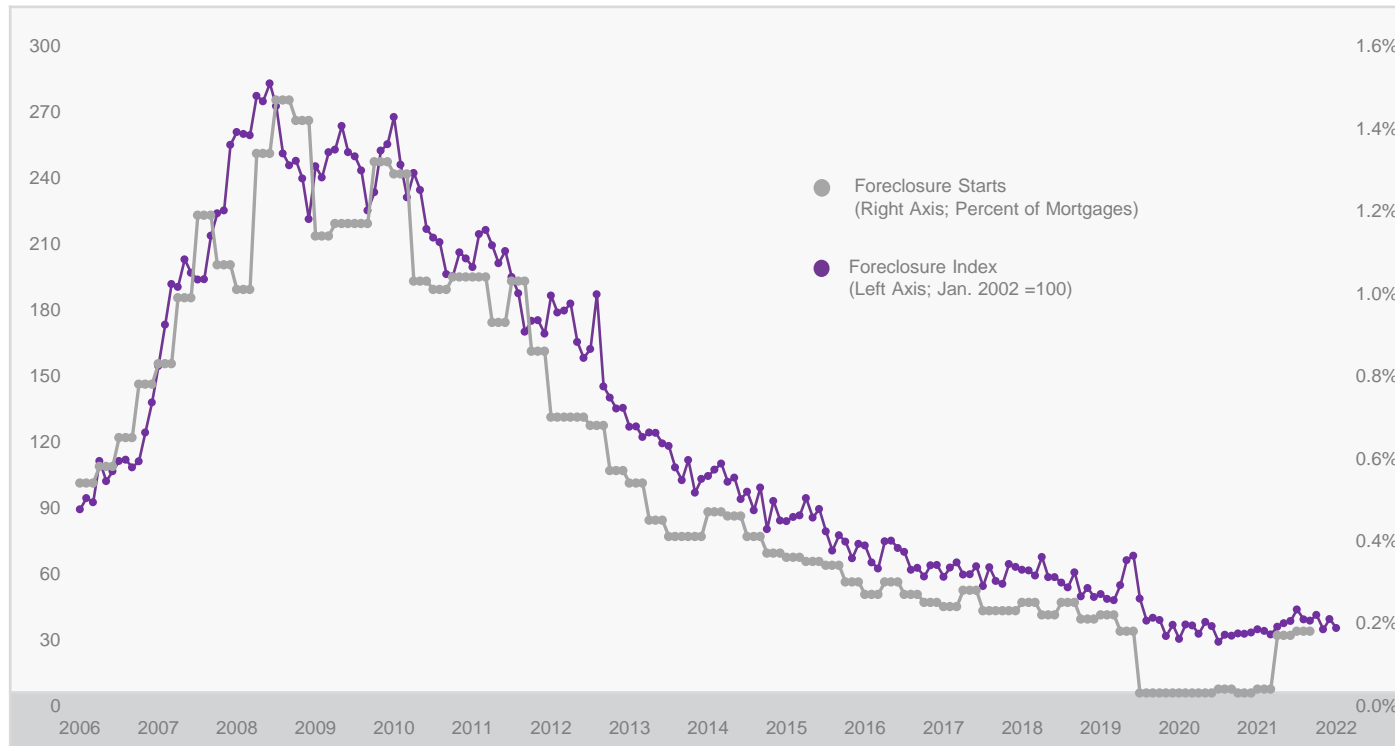
- Serious mortgage delinquency rates returned to their pre-pandemic levels in August ([Housing Wire](#)). Notably, this could reflect a normalizing market and is not necessarily a cause for concern.
- So-called “zombie” properties, which are pre-foreclosure properties that have been abandoned by owners, increased in Q3 for the third consecutive quarter and are up roughly 4% from a year ago. ([ATTOM](#))

Despite these warning signs, overall foreclosure starts and repossessions remain low. Low repossession volume in particular suggests that many borrowers in foreclosure have been able to sell their homes prior to auction, falling back on equity gained from higher home prices. As the housing market cools, however, it is less likely that homeowners will be able to sell their homes prior to auction, raising further concern that foreclosures may increase next year.

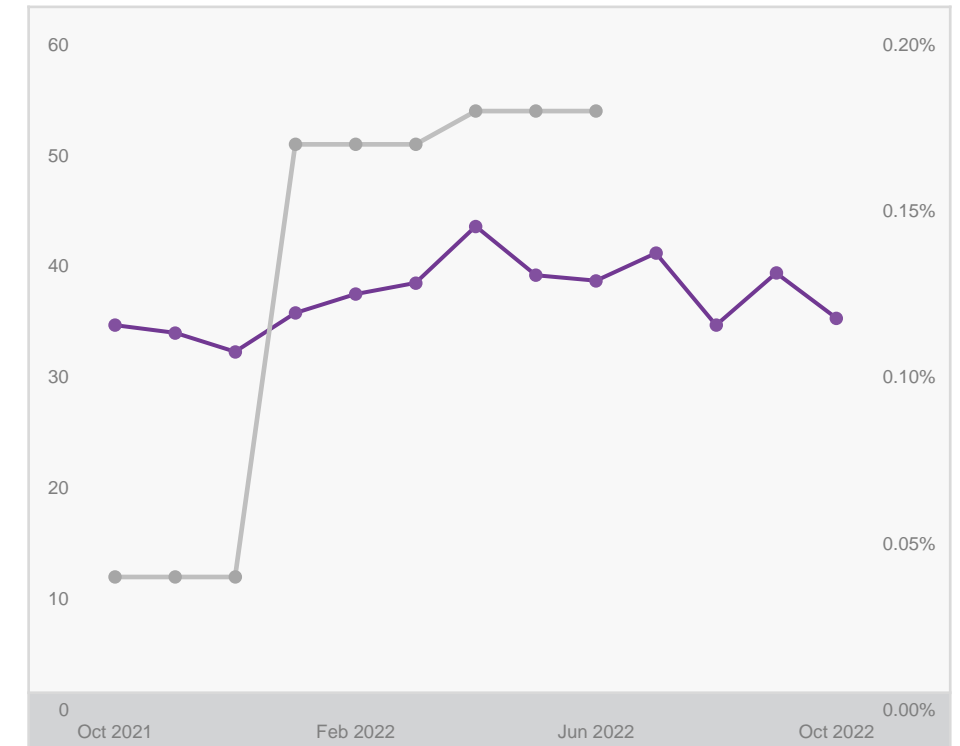
For now, however, LegalShield data suggest that foreclosure activity should remain low by historical standards for the remainder of the year and early 2023.

Foreclosure Index

Historical Trend Over Past 16 Years



Movement Over Past 12 Months





Housing Construction Index

Bottom Line: The LegalShield Housing Construction Index worsened slightly in October to its lowest level since June 2020, though it remains above pre-pandemic levels. Rising interest rates, high costs of building materials, and high home prices continue to dampen homebuilding activity.

Latest Reading: The LegalShield Housing Construction Index decreased 0.1 point to 127.6 in October. Meanwhile, housing starts decreased 8.1% M/M in September, down 7.9% from the year prior.

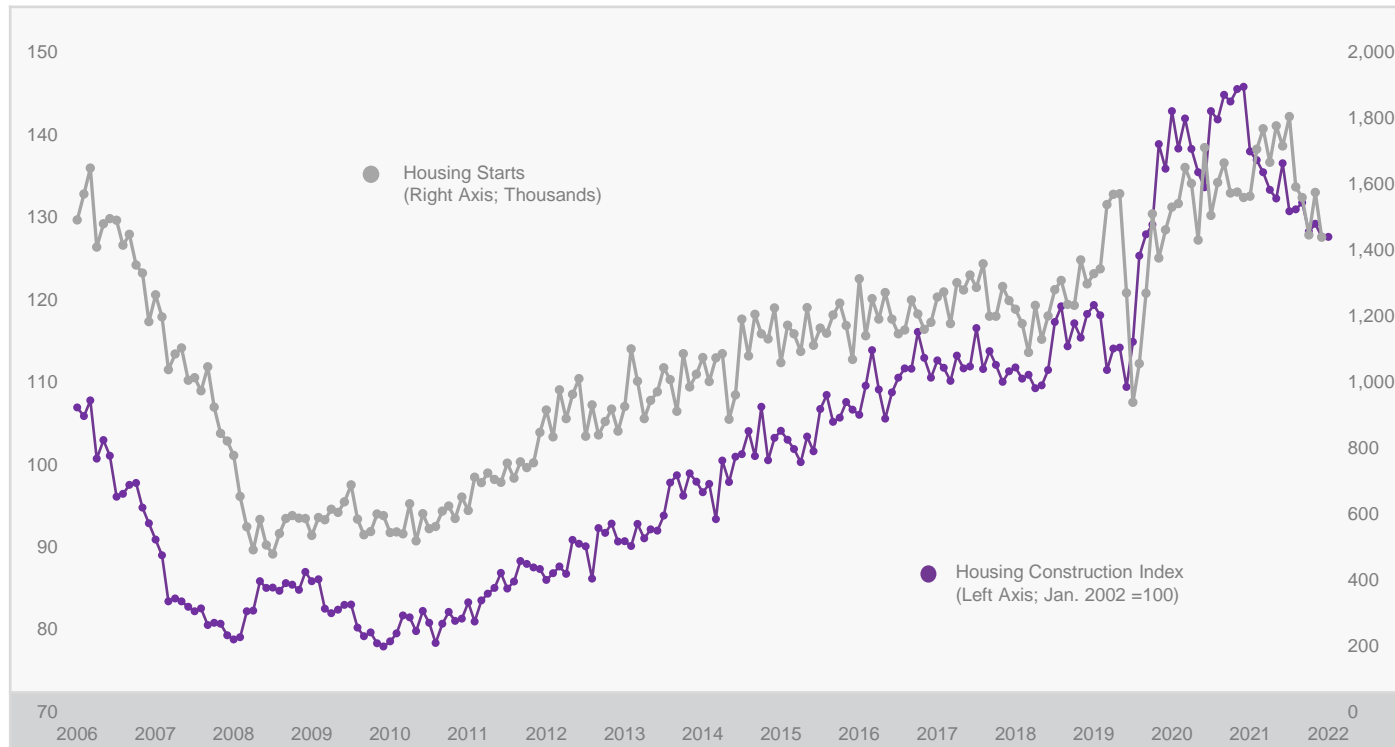
Economic Context: Building activity has faced strong headwinds in recent months due to rising mortgage rates weakening demand, ongoing supply chain problems, and high building costs. As a result, home builders are growing increasingly pessimistic: [NAHB's](#) Builder Confidence Index fell for the tenth consecutive month in October to 38 (half the level it was six months ago), while the subindex measuring traffic of potential buyers fell six points to 25. Low builder sentiment also reflects high construction costs and falling selling prices. The producer price index for residential construction goods is up nearly 16% Y/Y, while selling prices have fallen with demand and shaved three percentage points off home-seller profits in Q3.

Meanwhile, supply chain constraints and labor shortages continue to impede construction. This has pushed the backlog of homes under construction to new record highs, reaching 1.71 million in September. While the construction backlog may help to buoy construction activity in the near term, the broader trend reflects lower demand for new homes, and construction activity is unlikely to rebound anytime soon.

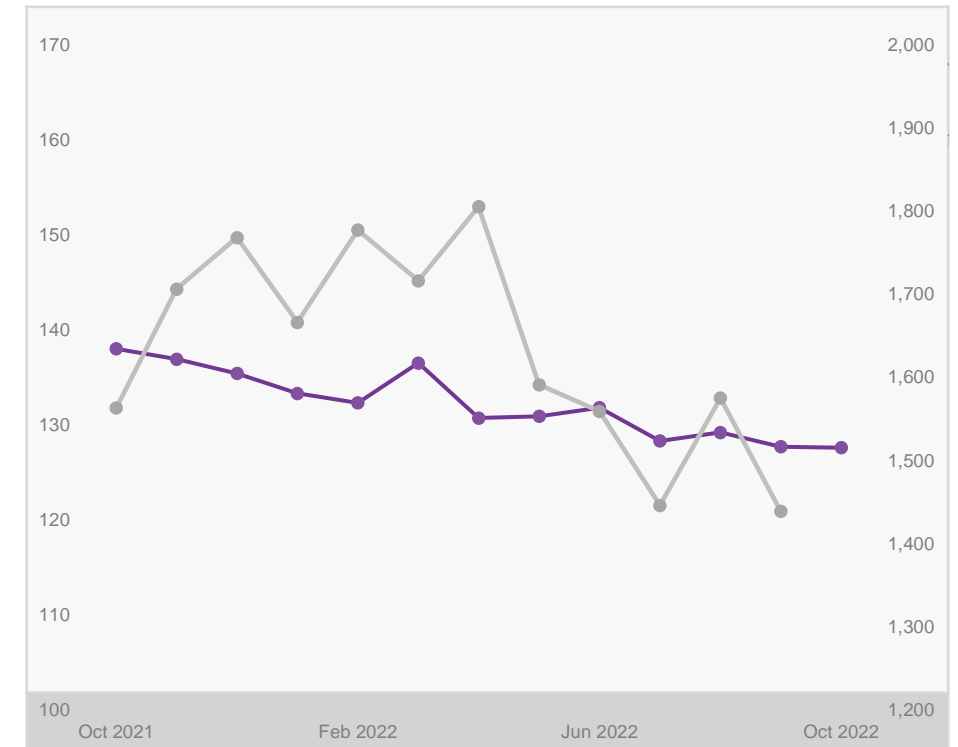
LegalShield data suggest that construction activity will ease further in the coming months, although the construction backlog may buoy housing construction activity for now.

Housing Construction Index

Historical Trend Over Past 16 Years



Movement Over Past 12 Months





Housing Sales Index

Bottom Line: In September, the LegalShield Housing Sales Index worsened to its lowest level since May 2020. The housing market has clearly softened, and LegalShield data suggest that existing home sales will weaken further over the remainder of the year.

Latest Reading: The LegalShield Housing Sales Index decreased 3.0 points to 104.1 in October after improving the prior month. Meanwhile, existing home sales decreased slightly in September and are down 23.8% Y/Y.

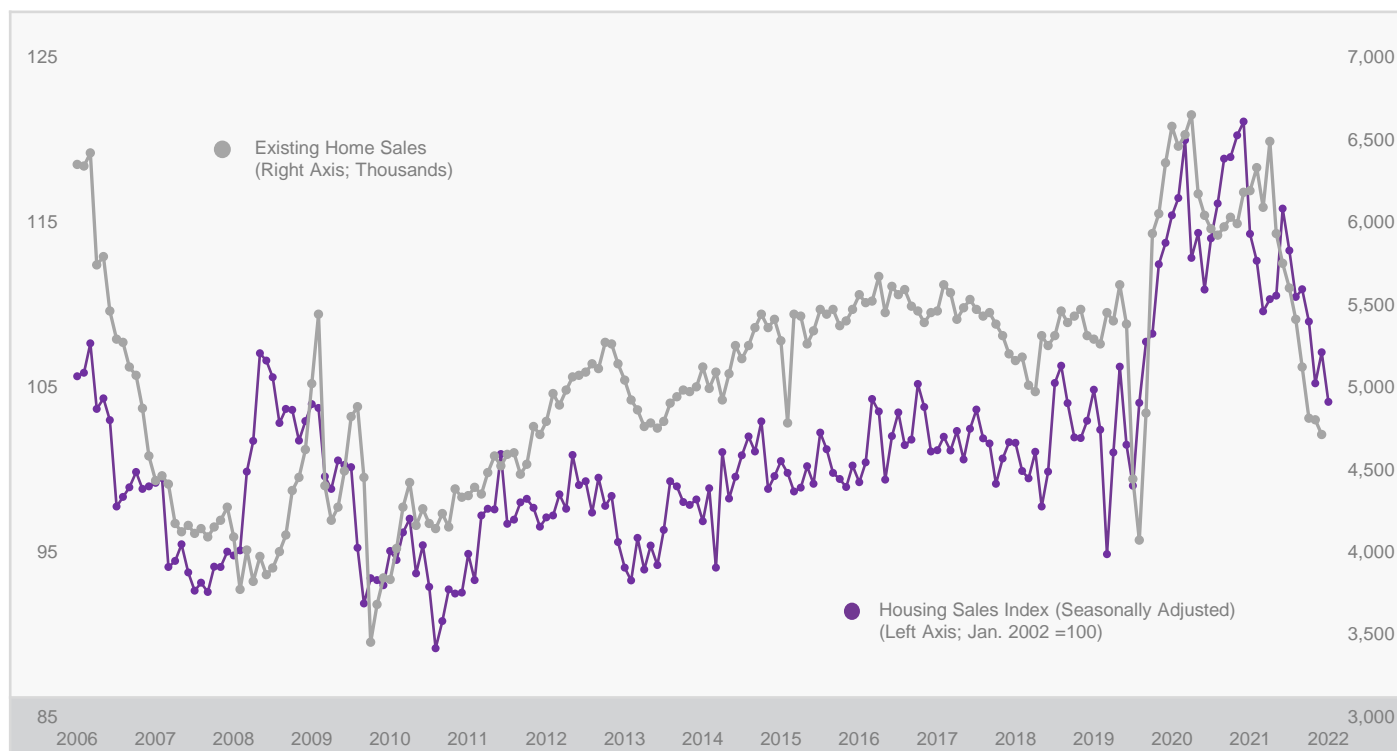
Economic Context: Home sales decreased for the eighth straight month in September, reflecting weakening buyer demand. Fed rate hikes have continued to hamper the red-hot housing market, driving up mortgage rates which have made home-buying increasingly unaffordable. Indeed, the average 30-year fixed-rate mortgage rate passed 7% in October and shows no sign of easing. As buyer demand has fallen, [mortgage applications](#) have plummeted and remain at their lowest level in 25 years. Housing inventories have recovered from record lows in January, and homes are staying [on the market](#) for longer periods of time.

Home prices are falling with sales. The S&P/Case-Shiller National Home Price index eased in July and August, decreasing for the first time since January 2019. Further, the share of active listings with price drops is steadily increasing, rising to 7.9% at the end of October, the highest share reported by [Redfin](#) since before 2019.

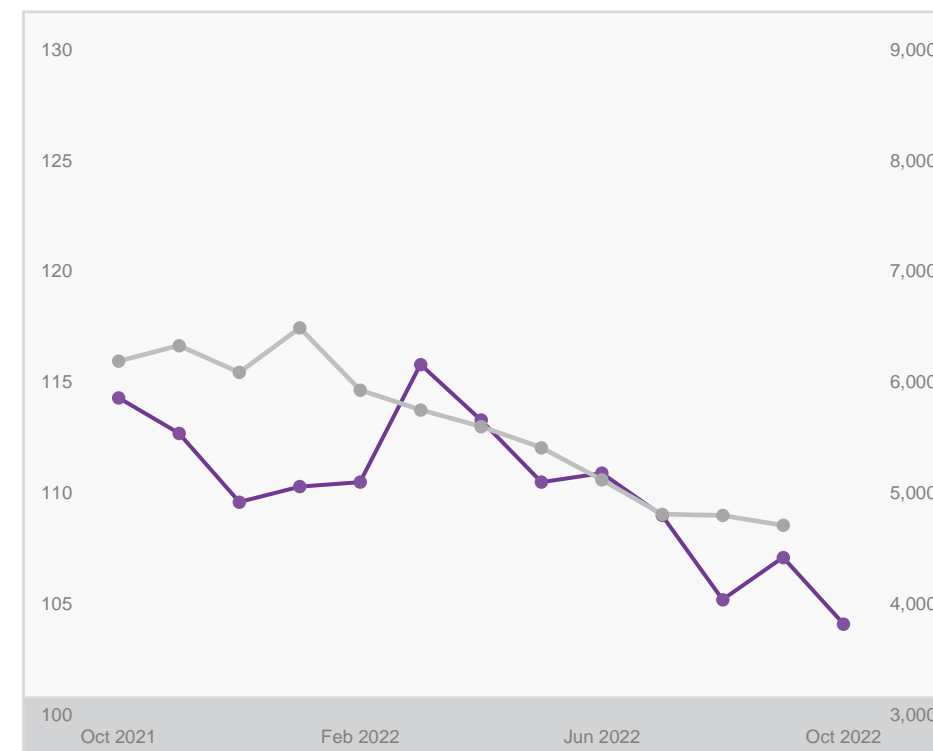
LegalShield data do not suggest that a turnaround in home sales activity is likely to occur any time soon — particularly if the Fed continues to raise interest rates.

Housing Sales Index

Historical Trend Over Past 16 Years



Movement Over Past 12 Months



Technical Appendix



Key Findings

Three individual AOLs demonstrated strong correlation and leading properties against five target macroeconomic indicators.

| Summary Of Results | | | | | | | |
|----------------------------|------------------------------|------------------------|----------------------|----------------------|--------------------------------|-------------------|----------------------|
| LEGALSHIELD AREA OF LAW | TARGET MACRO INDICATOR(S) | CORRELATION (LEVEL) | CORRELATION (Y/Y) | CORRELATION (Q/Q) | TRACKS HISTORICAL TREND? | ESTIMATED LEAD | ROBUST OVER TIME? |
| Bankruptcy | Bankruptcies | 0.75 | 0.74 | 0.22 | ✓ | ≈ 1 mo. | ✓+ |
| Foreclosure | Foreclosures | 0.96 | 0.88 | 0.47 | ✓ | Coincident* | ✓+ |
| Real Estate | Existing Home Sales | 0.87 | 0.65 | 0.46 | ✓ | ≈ 0-1 mo.* | ✓ |

*These indices have a timing advantage over their target indicators due to the release schedule of the target series.

Composite Indices

We developed two composite indexes that are strongly correlated with and tend to lead economic indicators of interest.



LegalShield “Consumer Stress” Index

- ✓ **Component AOLs:** (1) Bankruptcy; (2) Consumer/Finance; (3) Foreclosure
- ✓ **Target Indicator:** Consumer Confidence
- ✓ **Performance:** -0.85 Correlation; 1-3 Month Lead



LegalShield “Housing Construction” Index

- ✓ **Component AOLs:** (1) Real Estate; (2) Foreclosure
- ✓ **Target Indicator:** Housing Starts
- ✓ **Performance:** 0.91 Correlation; 0-2 Month Lead*

*In addition to its statistical lead time, the Index also has a timing advantage over housing starts of roughly one week due to release schedules.

Methodology:

Individual Index Development



Methodology

A six-step process was used to convert LegalShield intake data into potential indices.

1

CONSTRUCT DATASET:

Conduct preliminary data cleaning, processing, and formatting.

2

DETERMINE SCOPE OF ANALYSIS:

Examine differences across plan types and subscriber samples to determine the optimal “subscriber universe” for index development.

3

DEFINE INTAKE METRIC:

Test competing approaches for normalizing intake data.

4

FILTER AOLS:

Evaluate and scope the original list of 65 areas of law (AOLs) to identify the best candidates for index development.

5

TEST:

Run the scoped AOLs through a series of transformations and statistical tests to identify quantitative relationships with key macroeconomic indicators.

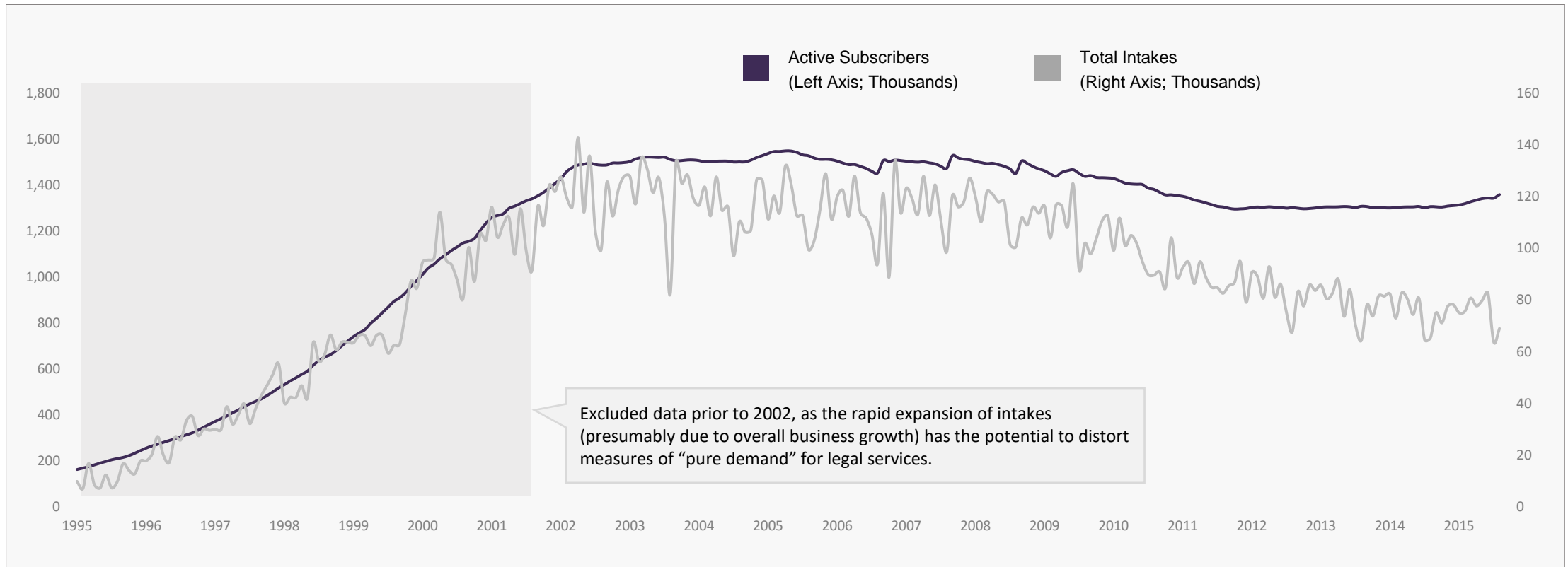
6

DEVELOP INDEXES:

Combine specific AOLs into composite indexes and test relationships with key macroeconomic indicators.

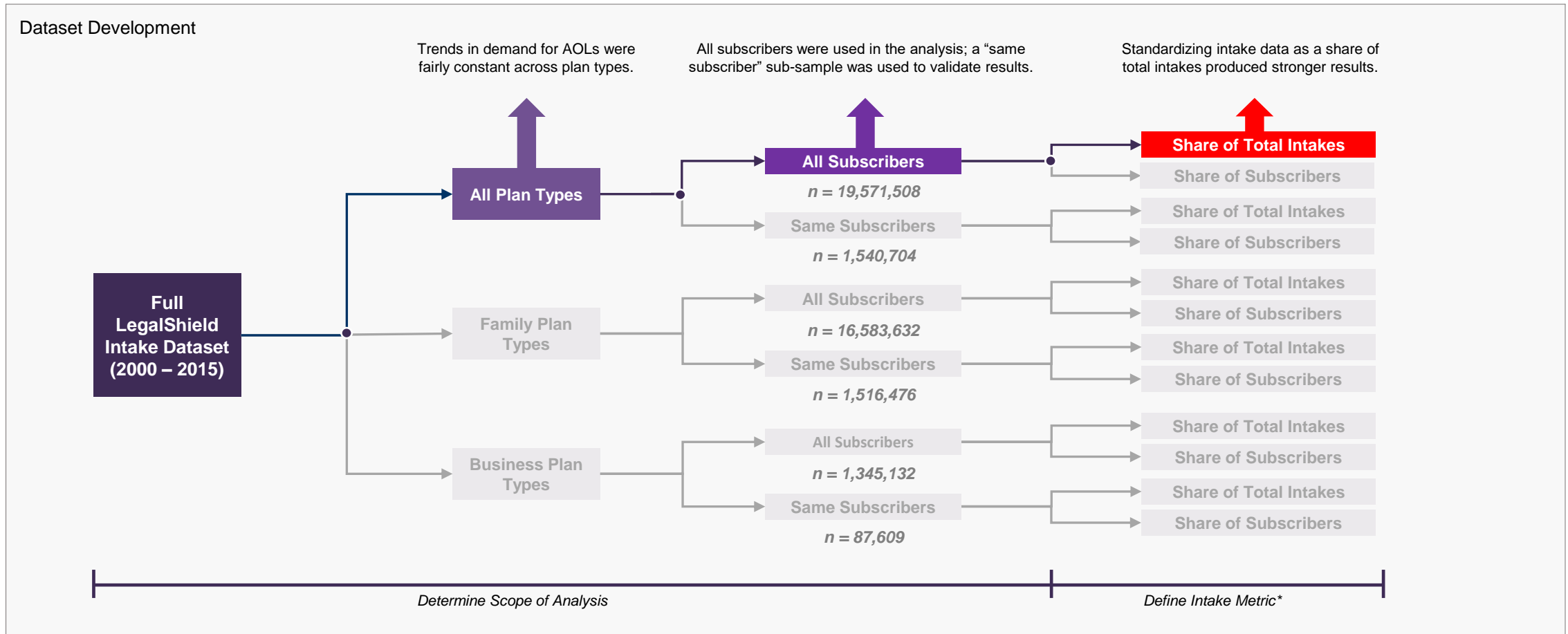
Data Construction & Cleaning

Monthly subscriber and intake data was trimmed to improve the stability of the dataset over time.



Analytical Scope

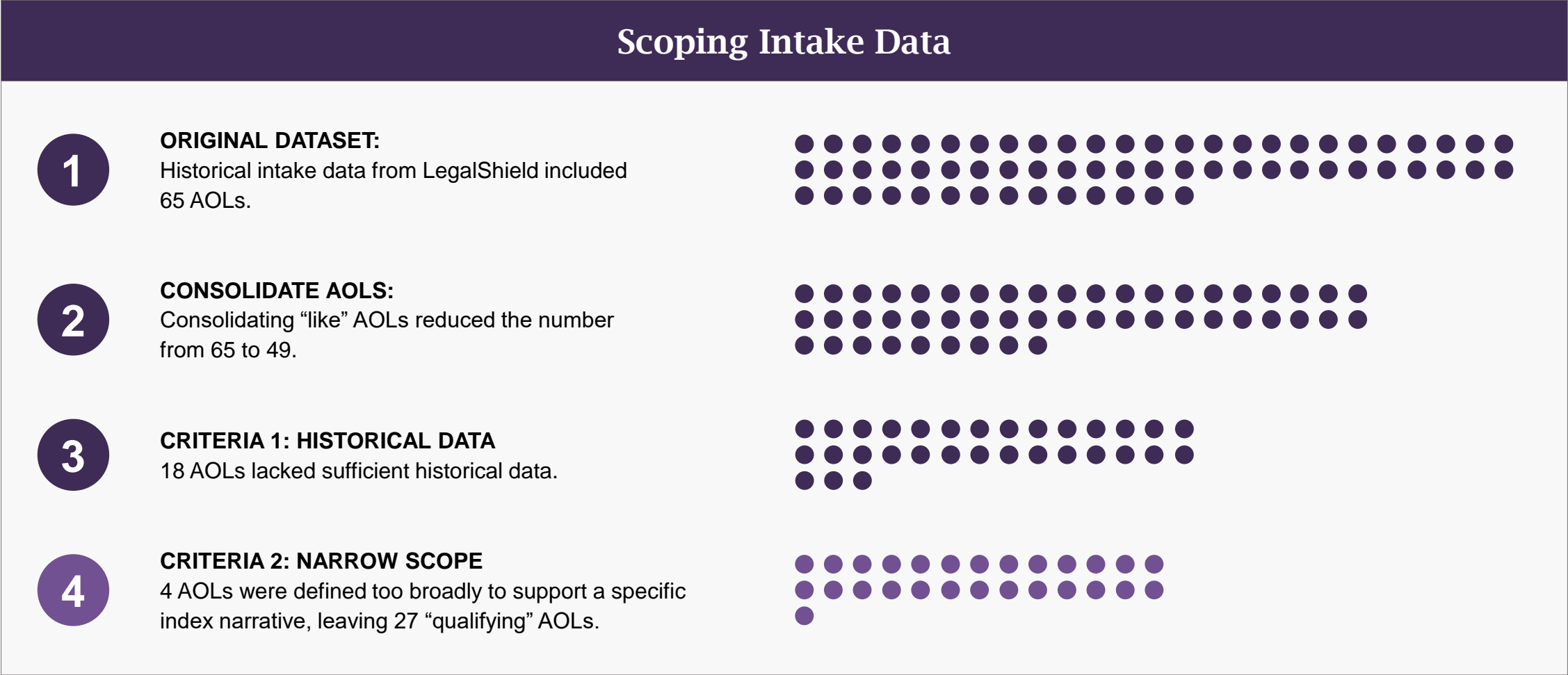
Testing and index development used intake data from all subscribers across all plan types, standardized by total intakes.



*Standardizing intake data as a share of active subscribers controls for the change in the size of the subscriber base over time. Standardizing intake data as a share of total intakes controls for shifts in the relative demand for different AOLs over time.

Filter AOLs

Out of 65 AOLs in the original intake data, a three-step filtering process identified 27 as suitable candidates for index development.



Filter AOL

Detailed Inclusion Filter Results (1/2)

| ID | LEGALSHIELD AREA OF LAW | ASSOCIATED WITH +/- LIFE EVENT | HISTORICAL DATA | NARROW SCOPE | INCLUDE IN DATASET |
|----|------------------------------|--------------------------------|-----------------|--------------|--------------------|
| 1 | Administrative Law | Ambiguous | | ✓ | |
| 2 | Automobile Accident | - | ✓ | ✓ | ✓ |
| 3 | Banking | Ambiguous | ✓ | | |
| 4 | Bankruptcy | - | ✓ | ✓ | ✓ |
| 5 | Business License, Fees, etc. | Ambiguous | ✓ | ✓ | ✓ |
| 6 | Civil Litigation | - | ✓ | ✓ | ✓ |
| 7 | Collection | - | ✓ | ✓ | ✓ |
| 8 | Consumer/Finance | Ambiguous | ✓ | ✓ | ✓ |
| 9 | Contract | Ambiguous | ✓ | ✓ | ✓ |
| 10 | Corporate | + | ✓ | ✓ | ✓ |
| 11 | Criminal | - | ✓ | ✓ | ✓ |
| 12 | Divorce | - | | ✓ | |
| 13 | Divorce Uncontested | - | | ✓ | |
| 14 | Education | - | ✓ | ✓ | ✓ |
| 15 | Elder Law | - | ✓ | ✓ | ✓ |
| 16 | Employment | Ambiguous | ✓ | ✓ | ✓ |
| 17 | Entertainment | Ambiguous | | ✓ | |
| 18 | Estate Planning | Ambiguous | ✓ | ✓ | ✓ |
| 19 | Family Law | Ambiguous | ✓ | ✓ | ✓ |
| 20 | Firearm | Ambiguous | | ✓ | |
| 21 | Foreclosure | - | ✓ | ✓ | ✓ |
| 22 | Franchise Law | Ambiguous | | ✓ | |
| 23 | General Law | Ambiguous | ✓ | | |
| 24 | Identity Theft | - | | ✓ | |
| 25 | Immigration | Ambiguous | ✓ | ✓ | ✓ |

Filter AOL

Detailed Inclusion Filter Results (2/2)

| ID | LEGALSHIELD AREA OF LAW | ASSOCIATED WITH +/- LIFE EVENT | HISTORICAL DATA | NARROW SCOPE | INCLUDE IN DATASET |
|-------|---------------------------------|--------------------------------|-----------------|--------------|--------------------|
| 26 | Insurance | - | ✓ | ✓ | ✓ |
| 27 | Labor Law | - | | ✓ | |
| 28 | Landlord Tenant | - | ✓ | ✓ | ✓ |
| 29 | Legal Malpractice | - | | ✓ | |
| 30 | Loan Modification | Ambiguous | | ✓ | |
| 31 | Medical Malpractice | - | ✓ | ✓ | ✓ |
| 32 | Military Law/Security Clearance | Ambiguous | | ✓ | |
| 33 | Other | Ambiguous | ✓ | | |
| 34 | Patents Combined | + | ✓ | ✓ | ✓ |
| 35 | Personal Injury | - | ✓ | ✓ | ✓ |
| 36 | Probate | - | ✓ | ✓ | ✓ |
| 37 | Product Liability | - | | ✓ | |
| 38 | Public Service | Ambiguous | | ✓ | |
| 39 | Real Estate | + | ✓ | ✓ | ✓ |
| 40 | Request for Service | Ambiguous | | | |
| 41 | Small Claims | - | ✓ | ✓ | ✓ |
| 42 | Social Security | - | ✓ | ✓ | ✓ |
| 43 | Tax | Ambiguous | ✓ | | |
| 44 | Trademarks | + | | ✓ | |
| 45 | Traffic | - | ✓ | ✓ | ✓ |
| 46 | Veteran's Affairs | Ambiguous | | ✓ | |
| 47 | Will Workshop | Ambiguous | | ✓ | |
| 48 | Workman's Compensation | - | ✓ | ✓ | ✓ |
| 49 | Wrongful Death | - | | ✓ | |
| TOTAL | | | 31 | 44 | 27 |

Testing

Intake data from the 27 “qualifying” AOLs was then tested against 15 economic indicators of interest to assess potential predictive value.

MACROECONOMIC INDICATORS:

1. Conduct preliminary data cleaning, processing, and formatting.
2. Examine differences across plan types and subscriber samples to determine the optimal “subscriber universe” for index development
3. Test competing approaches for normalizing intake data.

HOUSING INDICATORS:

4. Housing Starts
5. Existing Home Sales (NAR)
6. Residential Construction Permits
7. Small Business Optimism Index (NFIB)

FINANCIAL HEALTH INDICATORS:

8. Total Bankruptcies (Total Filings; Epiq)
9. Delinquencies (All Loans & Leases; St. Louis Fed)
10. Foreclosures (All Mortgage Foreclosures Started; Mortgage Bankers Association)
11. Consumer Credit (Total; Revolving; Non-Revolving)
12. S&P 500 Index
13. Wilshire 5000 Index

CONFIDENCE INDICATORS:

14. Consumer Confidence Index (Conference Board)
15. Small Business Optimism Index (NFIB)

Testing

Three out of the final 27 AOLs demonstrated a strong statistical relationship to a handful of economic indicators.

Scoping Intake Data

1

27 SCOPED AOLS: 27 AOLs were subjected to several rounds of statistical testing.



2

STATISTICAL RELATIONSHIP: Test for correlation across various transformations.



3

TRACKING HISTORICAL TREND: Visually assess AOL to determine how closely it tracks its target indicator.



4

LEADING PROPERTIES: Test for leading / concurrent properties.



5

ROBUST ACROSS TIME: Confirm that relationships hold across various out-of-sample time periods.



Testing

Testing included computing various correlations, assessing historical trends and leading properties, and evaluating stability over time.

1

BASIC COORELATIONS:

- Examined the correlation between AOL and target macro indicator using different transformations



2

HISTORICAL TREND & LEADING PROPERTIES:

- Produced charts of transformed AOL and select economic indicators to confirm/reject if AOL tracks indicator's historical trend
- Examined AOLs on both a concurrent and leading basis

3

STABILITY TESTS:

- Performed testing to confirm that relationship between AOL and macro indicator was not driven solely by a specific time period within the dataset and ensure that the relationship holds across time
- Test 1: Compared correlations between first half of data (2000 – 2007) and second half of data (2008 – 2015)
- Test 2: Compared correlations between random samples of the data
- Test 3: Compared earliest and latest data (2000 – 2005, 2010 – 2015) with middle of data (2006 – 2009)
- Test 4: Compared correlations between 20% of most recent data (Nov 2012 – Dec 2015) and remaining data

Testing

Statistical Relationship Testing, Select Results

| Correlation Results (2002 – 2017) | | | | |
|-----------------------------------|---------------------|---------------------|----------------------|----------------------|
| LEGALSHIELD AREA OF LAW | TARGET INDICATOR | CORRELATION (LEVEL) | CORRELATION (Y/Y) | CORRELATION (Q/Q) |
| Bankruptcy | Bankruptcies | 0.76 | 0.67 | 0.20 |
| Foreclosure | Foreclosures | 0.96 | 0.87 | 0.49 |
| Real Estate | Existing Home Sales | 0.85 | 0.58 | 0.36 |

Testing

Historical Trend & Leading Properties Testing, Select Results

| Historical Trend & Leading Properties Results (2002 – 2016) | | | | |
|---|---------------------|-----------------------------|-----------------------|--------------------------|
| LEGALSHIELD AREA OF LAW | TARGET INDICATOR | TRACKS HISTORICAL TREND? | LEADING PROPERTIES | APPROXIMATE LEAD TIME |
| Bankruptcy | Bankruptcies | ✓ | ✓ | ≈ 1 mo. |
| Foreclosure | Foreclosures | ✓ | r | Coincident* |
| Real Estate | Existing Home Sales | ✓ | ✓ | ≈ 1 mo.* |

* These indices have a practice lead time of varying length due to the release schedule of the target series.

Testing

Intertemporal Stability Testing, Select Results

| Stability Test Results (2000 – 2015) | | | | | | | |
|--------------------------------------|------------------------------|---------|---------|---------|---------|------------------|---------------------------------------|
| LEGALSHIELD AREA OF LAW | TARGET MACRO INDICATOR(S) | TEST 1* | TEST 2* | TEST 3* | TEST 4* | OVERALL SCORE | KEY TAKEAWAYS |
| Bankruptcy | Bankruptcies | ✓ | ✓ | ✓ | ✓ | ✓+ | Performed well across all tests |
| Foreclosure | Foreclosures | ✓ | ✓ | ✓ | ✓ | ✓+ | Performed well across all tests |
| Real Estate | Existing Home Sales | r | ✓ | ✓ | ✓ | ✓ | Performed well on all but one test |

* Test 1: Compared correlations between first half of data (2000 – 2007) and second half of data (2008 – 2015)

* Test 2: Compared correlations between random samples of the data

* Test 3: Compared earliest and latest data (2000 – 2005, 2010 – 2015) with middle of data (2006 – 2009)

* Test 4: Compared correlations between 20% of most recent data (Nov 2012 – Dec 2015) and remaining data

Methodology:

Composite Index Development



Methodology

A five-step process was used to convert LegalShield data into composite indices.

- 1 SELECT AOLS:** Select individual AOLS to be included in the composite index, based on results of statistical tests and desired index “narrative” (e.g., consumer stress).
- 2 TRANSFORM AOLS:** Compute the month-on-month percent change for each AOL.
- 3 STANDARDIZE:** Create a standardization factor for each AOL, based on its standard deviation. Multiply each transformed AOL by the standardization factor to produce an “adjusted monthly contribution” for each AOL.
- 4 SUM COMPONENTS:** Sum the adjusted monthly contribution across each AOL to produce a monthly index growth rate.
- 5 REBASE TO 100:** Rebase the monthly index growth rate to a given month (January 2000 = 100) and to produce a monthly composite index.

Testing

Historical Trend & Leading Properties Test Results

| Historical Trend & Leading Properties Results (2002 – 2016) | | | | |
|---|---------------------|--------------------------|--------------------|-----------------------|
| COMPOSITE INDEX | TARGET INDICATOR | TRACKS HISTORICAL TREND? | LEADING PROPERTIES | APPROXIMATE LEAD TIME |
| Consumer Stress | Consumer Confidence | ✓ | ✓ | 1 - 3 mo. |
| Housing Construction | Housing Starts | ✓ | ✓ | 0 – 2 mo.* |

*In addition to its statistical lead time, the Index also has a timing advantage over housing starts of roughly a week due to release schedules.

Testing

Statistical Relationship Test Results

| Correlation Results (2002 – 2017) | | | | |
|-----------------------------------|---------------------|---------------------|-------------------|-------------------|
| COMPOSITE INDEX | TARGET INDICATOR | CORRELATION (INDEX) | CORRELATION (Y/Y) | CORRELATION (Q/Q) |
| Consumer Stress | Consumer Confidence | -0.85 | -0.58 | -0.33 |
| Housing Construction | Housing Starts | 0.88 | 0.55 | 0.23 |

Testing

Intertemporal Stability Tests

| Stability Test Results (2000 – 2015) | | | | | | | |
|--------------------------------------|---------------------|---------|---------|---------|---------|---------------|------------------------------------|
| COMPOSITE INDEX | TARGET INDICATOR | TEST 1* | TEST 2* | TEST 3* | TEST 4* | OVERALL SCORE | KEY TAKEAWAYS |
| Consumer Stress | Consumer Confidence | r | ✓ | ✓ | ✓ | ✓ | Performed well on all but one test |
| Housing Construction | Housing Starts | r | ✓ | ✓ | ✓ | ✓ | Performed well on all but one test |

Test 1: Compared correlations between first half of data (2000 – 2007) and second half of data (2008 – 2015)

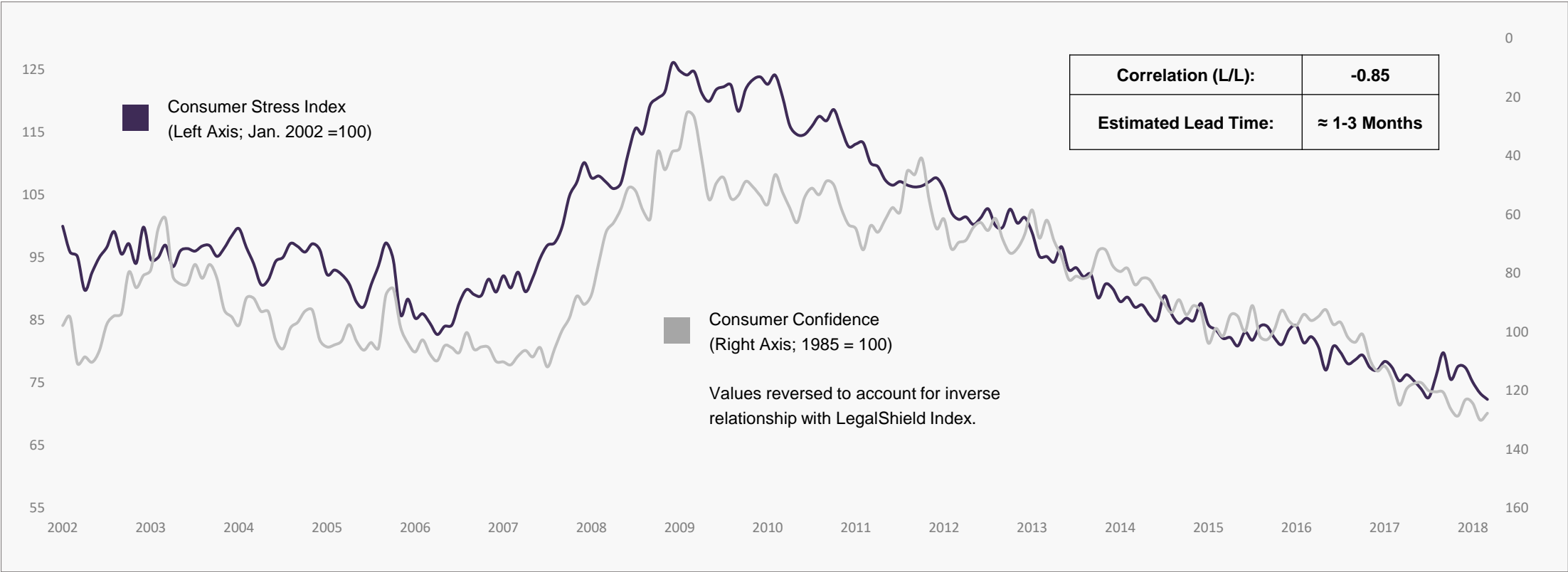
Test 2: Compared correlations between random samples of the data

Test 3: Compared earliest and latest data (2000 – 2005, 2010 – 2015) with middle of data (2006 – 2009)

Test 4: Compared correlations between 20% of most recent data (Nov 2012 – Dec 2015) and remaining data

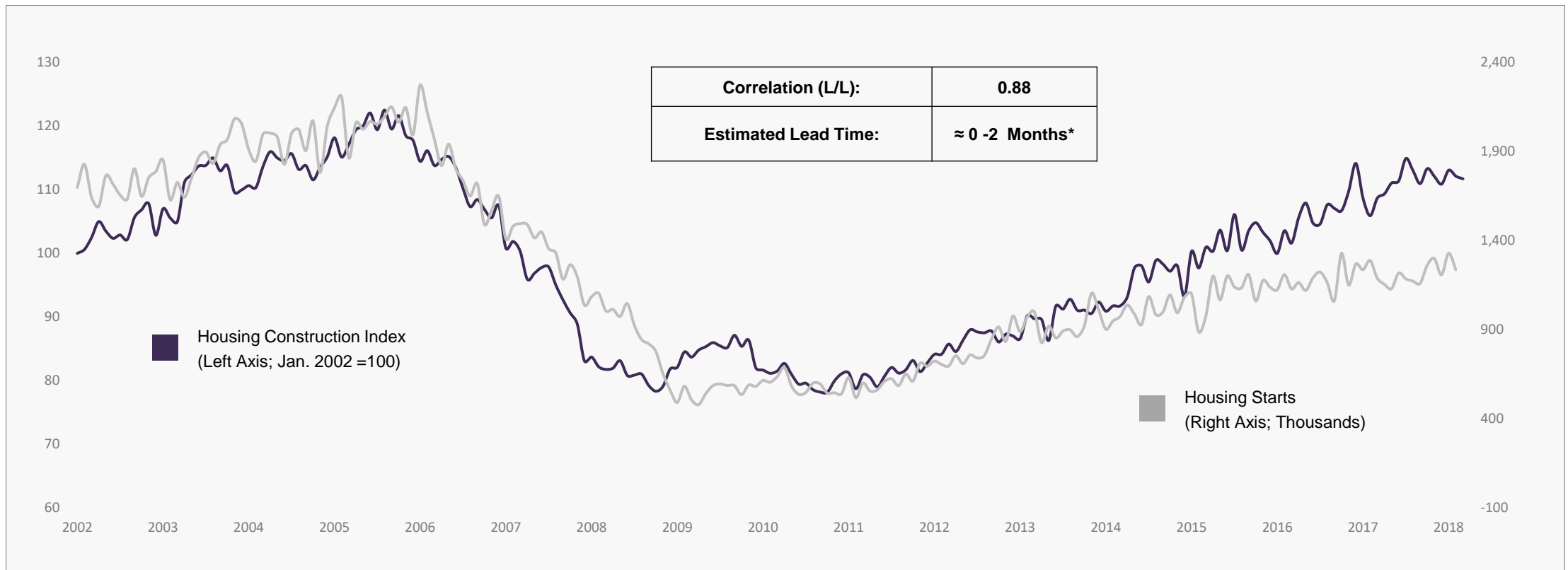
Composite Index: Consumer Stress

AOLs: Bankruptcy; Foreclosure; Consumer Finance



Composite Index: Housing Construction Index

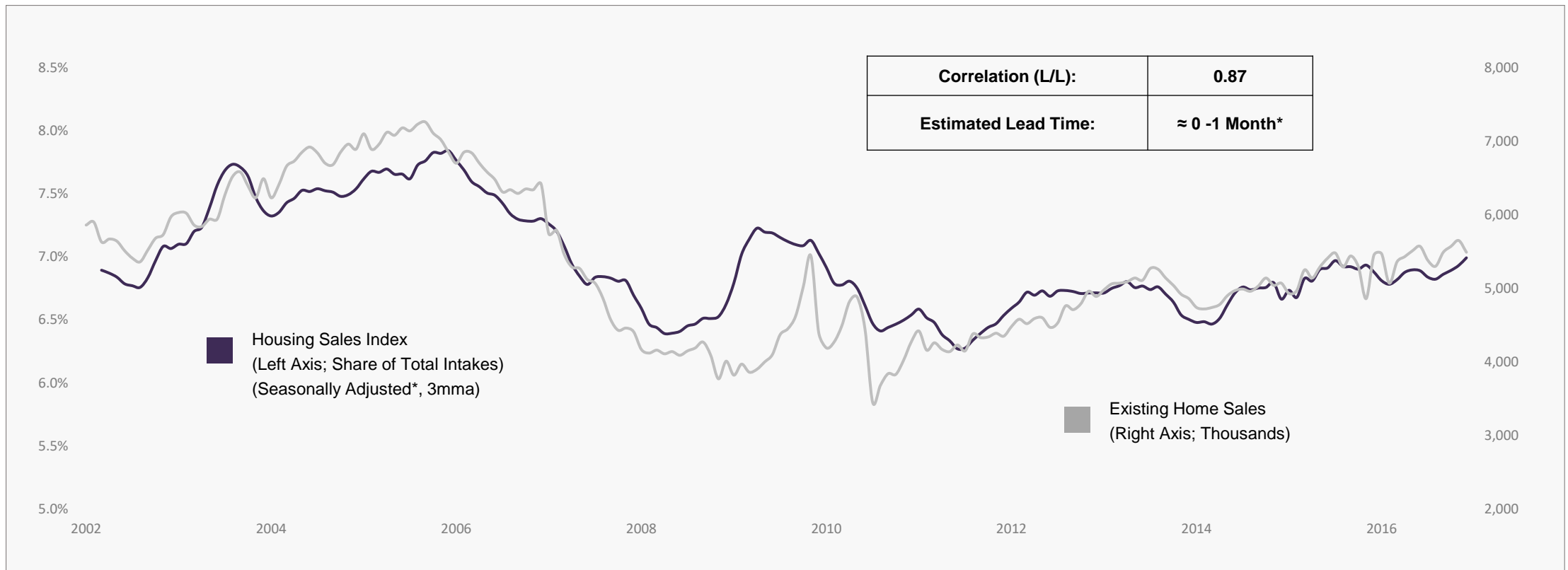
AOLs: Foreclosure; Real Estate*



*The Housing Construction Index component of the Housing Activity Index was seasonally adjusted using the Census Bureau's X-13 ARIMA-SEATS Seasonal Adjustment Program. In addition to its statistical lead time, the Index has a timing advantage over housing starts of roughly a week due to release schedules.

AOL: Real Estate

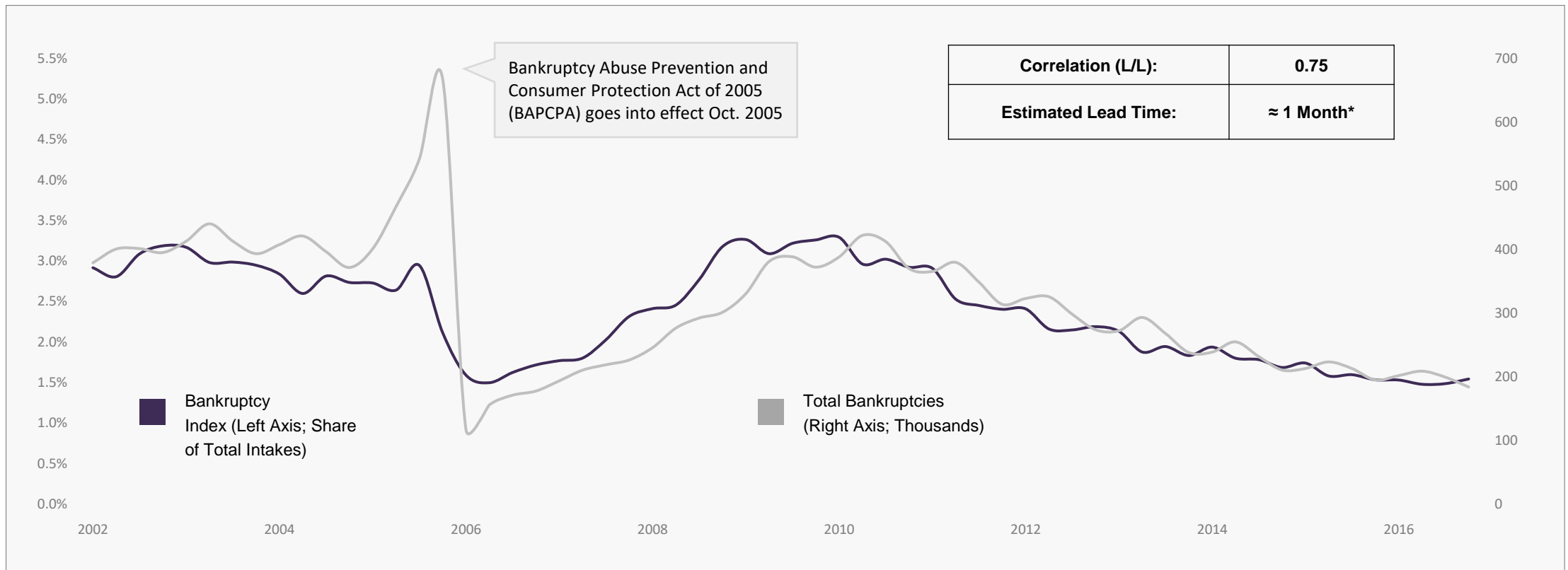
Target Series: Real Estate*



*The Housing Sales Index was seasonally adjusted using the Census Bureau's X-13 ARIMA-SEATS Seasonal Adjustment Program. In addition to its statistical lead time, the Index has a timing advantage of roughly two weeks over existing home sales due to release schedules.

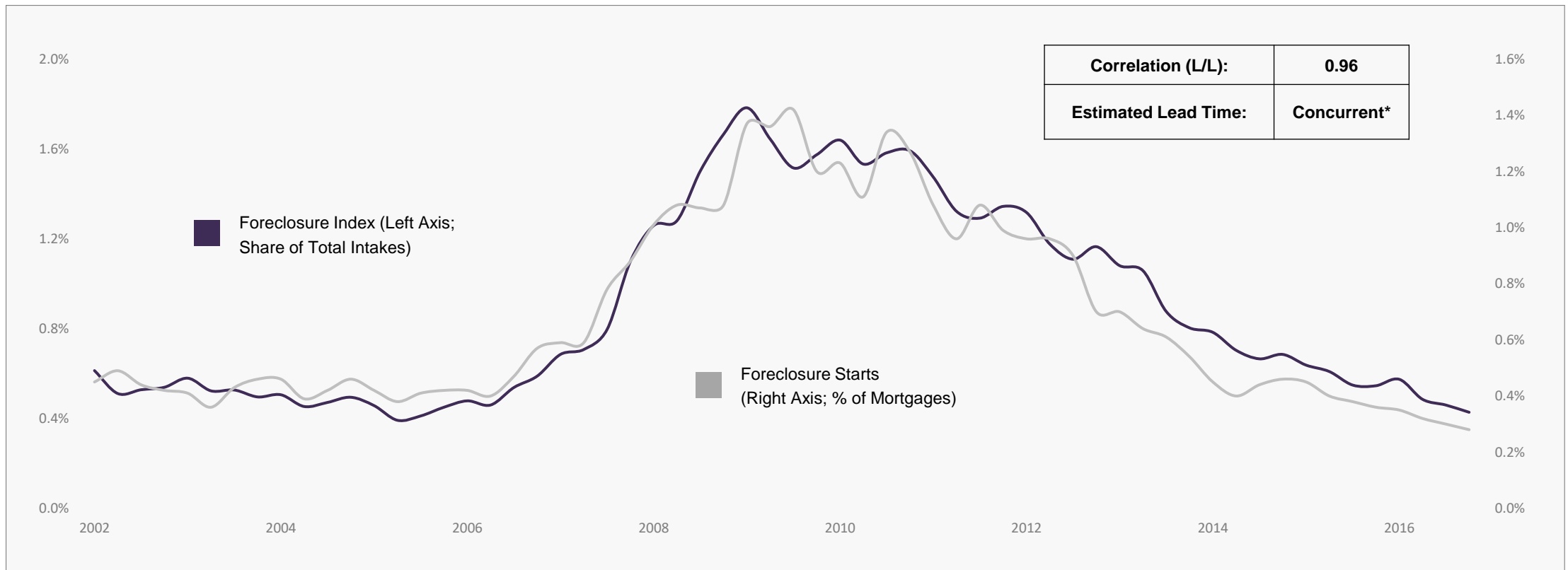
AOL: Bankruptcy

Target Series: Consumer Bankruptcies



AOL: Foreclosure

Target Series: Foreclosure Starts



*Foreclosures starts are statistically coincident with the LegalShield Foreclosure Index, but the Index has a significant timing advantage time due to its monthly release (compared to the quarterly release of foreclosure starts).

Results

Summary of Key Findings

| Summary of Results | | | | | | |
|--------------------------|---------------------|------------------------|----------------------|----------------------|--------------------------|-----------------------|
| LEGALSHIELD LAW Index | TARGET SERIES | CORRELATION (LEVEL) | CORRELATION (Y/Y) | CORRELATION (Q/Q) | APPROXIMATE LEAD TIME | ROBUST ACROSS TIME |
| Bankruptcy | Bankruptcies | 0.76 | 0.67 | 0.20 | ≈ 1 mo. | ✓+ |
| Foreclosure | Foreclosures | 0.96 | 0.87 | 0.49 | Coincident* | ✓+ |
| Housing Sales | Existing Home Sales | 0.85 | 0.58 | 0.36 | ≈ 0-1 mo.* | ✓ |
| Consumer Stress | Consumer Confidence | -0.85 | -0.58 | -0.33 | ≈ 1-3 mo. | ✓ |
| Housing Construction | Housing Starts | 0.88 | 0.55 | 0.23 | ≈ 0-2 mo.* | ✓ |

Thank you!



**Economic
Stress Index™**

