

# HOUST1FQ Private Housing Starts, One family Units Quarterly Forecast

## Quarterly Forecast

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### 2nd Quarter 2018 Reported Values

Reported Values

**258**

y/o/y %change

**+8%**

### Current Forecasts (Reported Values)

Q3 2018

**245**

Q4 2018

**212**

Q1 2019

**209**

Q2 2019

**267**

### Observations:

- **Forecasts are based on current candidate models. Each model will continue to be optimized to further increase accuracy. All forecasting is subject to high degrees of error due to market volatility and other unpredictable events.**

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## Quarterly Forecast

Forecast vs. Errors in a Table. The table on the left below shows internal historically generated quarterly forecasts for 2014 Q2 to 2019 Q2. Each new quarter of data generates 4 new forecasts for the current quarter, quarter +1, quarter +2, and quarter +3, in advance. Actual values are displayed in the middle of the table vs. forecast % errors displayed on the right side.

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Quarter Forecasts (Values)					Actual Values	Quarter Error (%)			
Forecast Quarter	Current Quarter	Quarter +1	Quarter +2	Quarter +3		Current Quarter	Quarter +1	Quarter +2	Quarter +3
2014-Q2	178				183	2			
2014-Q3	172	168			178	3	5		
2014-Q4	146	141	138		154	5	7	9	
2015-Q1	149	142	138	134	140	-6	-1	1	3
2015-Q2	190	199	189	184	205	7	2	7	10
2015-Q3	200	188	188	179	203	1	7	7	11
2015-Q4	182	168	160	155	166	-9	-1	3	6
2016-Q1	147	168	164	147	170	13	0	3	13
2016-Q2	233	214	234	214	218	-6	1	-7	1
2016-Q3	216	232	218	212	206	-4	-12	-6	-2
2016-Q4	172	172	196	172	187	7	7	-5	7
2017-Q1	182	174	169	175	181	0	3	6	3
2017-Q2	246	254	236	224	238	-3	-7	0	5
2017-Q3	229	244	245	214	230	0	-6	-6	6
2017-Q4	219	199	205	195	200	-9	0	-2	2
2018-Q1	192	198	193	188	195	1	-1	0	3
2018-Q2	260	269	262	247	258	0	-4	-1	4
2018-Q3	245	262	260	238					
2018-Q4		211	221	208					
2019-Q1			208	202					
2019-Q2				266					

# HOUST1FQ Private Housing Starts, One family Units Quarterly Forecast

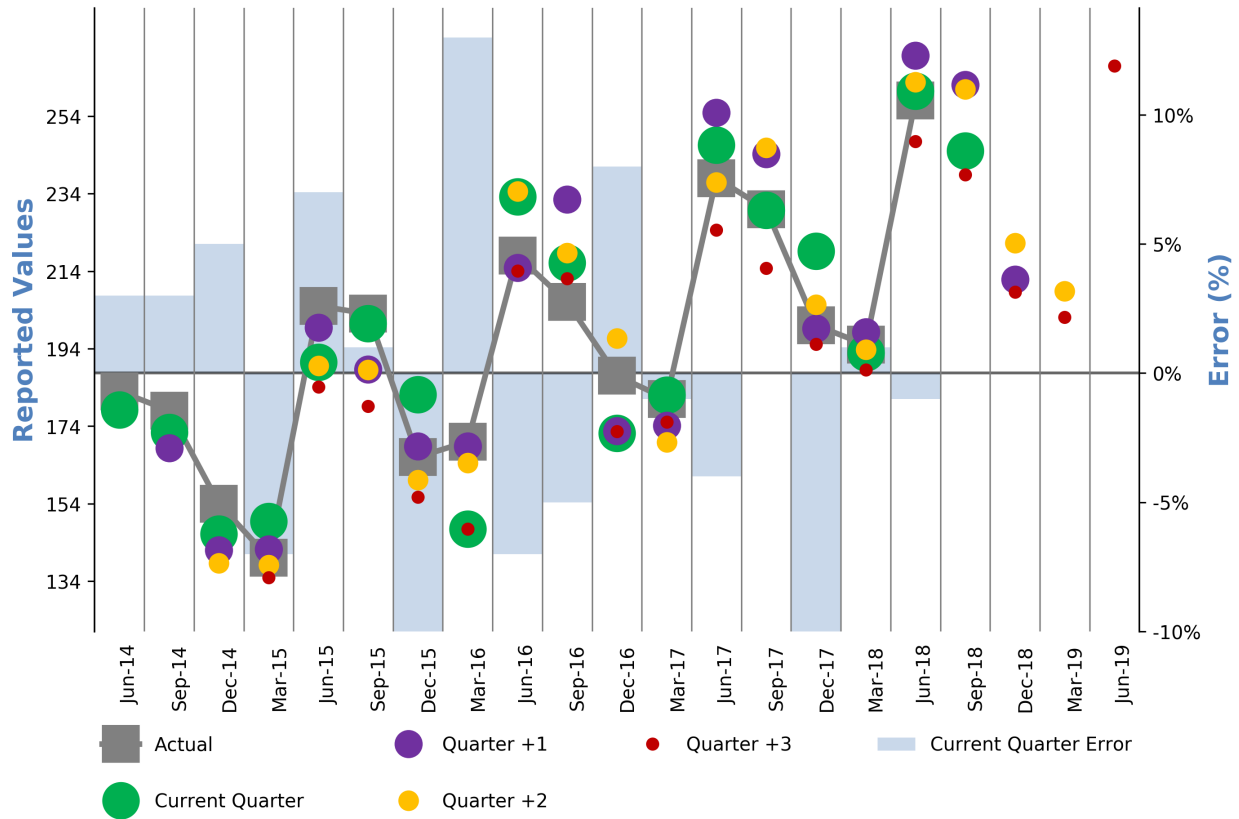
## Quarterly Forecast

The graph below is a visual representation of internally generated, historic quarterly forecasts compared to the actual reported values. Each quarter has 4 forecasts for the current quarter, quarter +1, quarter +2, and quarter +3. The light blue bars are representative of the forecast error for the current quarter forecasts only.

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### Quarterly Reported Values



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## Quarterly Forecast

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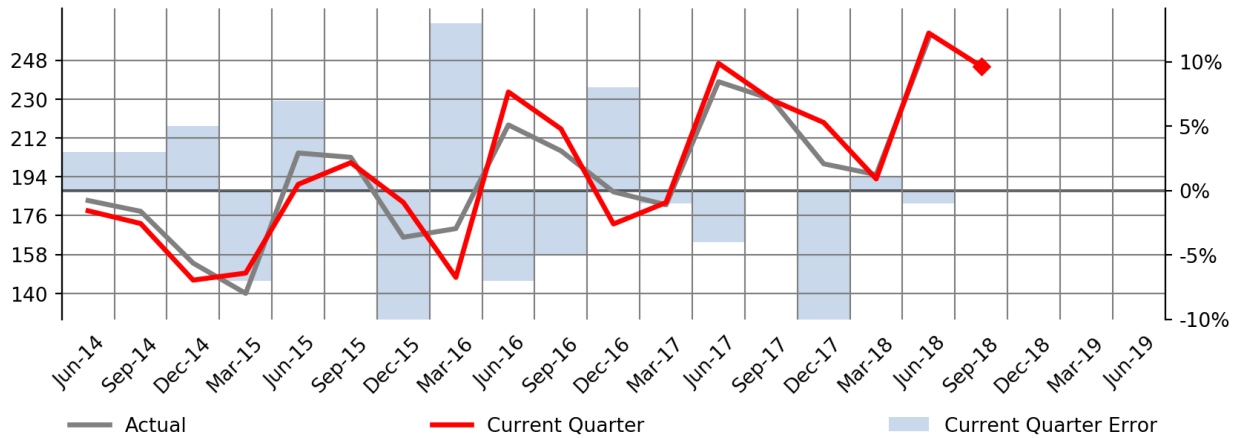
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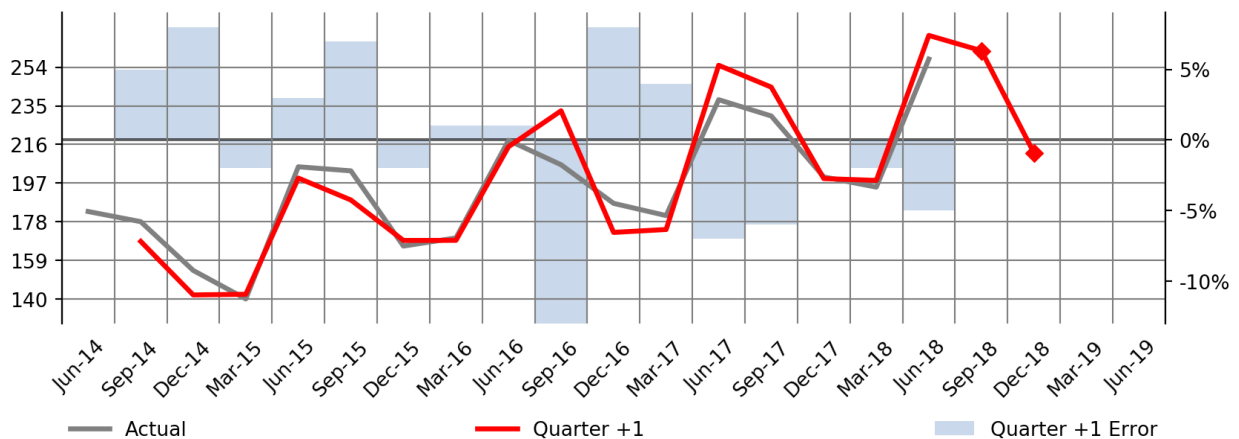
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### Current Quarter: Forecast vs. Actual



### Quarter +1: Forecast vs. Actual



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## Quarterly Forecast

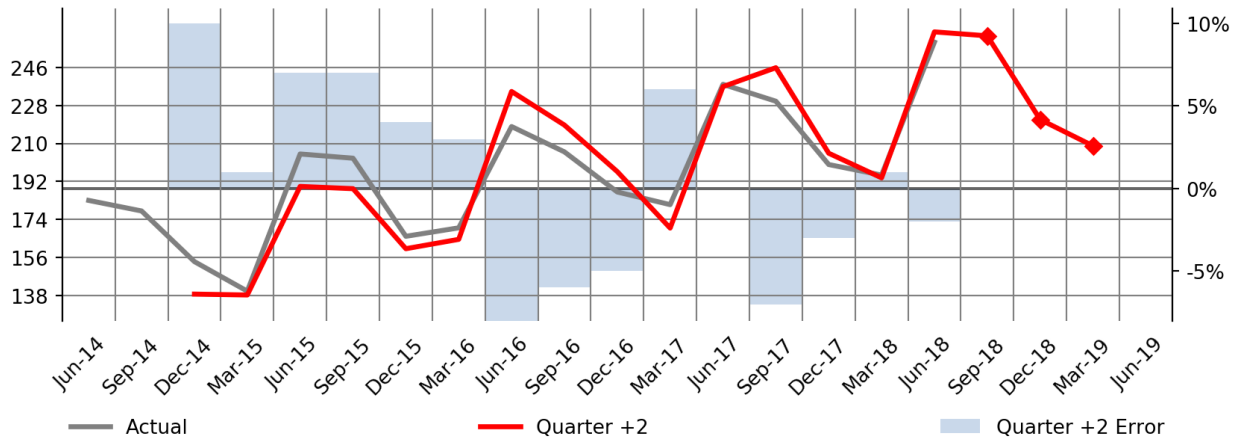
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### Quarter +2: Forecast vs. Actual



### Quarter +3: Forecast vs. Actual

