

Real Estate Owned (REO) Stabilization Opportunity Score A Brief Explanation (Updated using March 2009 Data)

What is the intended use of the REO Stabilization Opportunity Score (SOS) Index?

After properties are foreclosed and being auctioned off unsuccessfully, they will become Real Estate Owned (REO) properties when lenders take over their ownership. The REO SOS Index is designed to help local agencies, organizations, and other entities identify opportunities for rehabilitating, acquiring, and/or redeveloping REO properties in order to stabilize communities impacted by foreclosures and REOs.

Although the Index was produced to help participating agencies of the Neighborhood Stabilization Program, any entity interested in REO stabilization work can use it.

How is the score calculated?

The Index evaluates two main areas (current and future availability of REOs and local REO/real estate market health) using four criteria:

- 1) REO availability: This criterion evaluates the number of REOs in each ZIP as of March 2009, weighted by the concentration of these REOs. Previous studies consistently suggest that when foreclosures and REOs are spatially clustered, the negative spillover effects are more intense. The concentration weight reflects that fact. The number of REOs is based on the LPS (Lender Processing Services Inc.) Applied Analytics (formerly McDash) dataset, which covers the majority of active mortgages. Nonetheless, because of the dataset does not cover the entire pool of active mortgages, the actual number of REOs within each ZIP may be slightly higher than the estimates indicated in the attached table. Please refer to Footnote 3 in the table for more detailed coverage information for a specific state.
- 2) 90-day and more delinquency: This criterion serves as a proxy for possible future REOs. Similar to the "REO availability" criterion, this criterion evaluates the number of 90-day and longer delinquencies, weighted by their spatial concentrations. The estimates are subject to the same coverage limitations discussed in the "REO availability" section.
- 3) Median time of an REO on the market: This criterion evaluates the median length of time on the market for the properties that have become REO since 2005. The calculation includes not only the properties that have been repurchased since they became REO, but also those that are currently for sale. A longer median time on the market usually suggests a more stagnant local REO/real estate market.
- 4) Median home sales price decline: This criterion evaluates the absolute decline of the median home sales price, weighted by the percentage of such decline, between the period of January 2005 to June 2006 and the period of January 2008 to March 2009. ZIP codes with fewer than 15 transactions in either period are excluded since a small transaction volume could significantly skew the median sales price. Transactions with a price lower than \$10,000 are also excluded in the calculation as they are usually unconventional sales, such as transfers between family members. A negative value here suggests that the median home sale price has gone up. This criterion uses the data provided by the Warren Group.

Every ZIP code that has sufficient data for each of these four criteria is analyzed and compared against the rest of such ZIP codes within the state. A standardized score is then given in each of these four areas, 1.000 represents the higher level in the state (e.g. the longest median time of an REO on the market), while 0.000 represents the lowest level in the state. The final composite standardized score takes into consideration all four criteria.

What does the score mean?

The SOS Index is a standardized score, and it reflects the relative distressed level of a ZIP code with respect to the other ZIP codes in the state. A higher score indicates a higher distressed level. For instance, a ZIP code with a higher composite score may have a higher volume of REOs and 90-day+ delinquency. Compared with other ZIP codes in the state, it takes longer for REOs there to sell at a greater discount.

However, a higher score should not be interpreted simply as having higher stabilization potential: other factors may be in play.

On one hand, REO stabilization efforts in highly distressed areas may be more cost-effective than in a marginally distressed area. For instance, basic rehabilitation efforts on REOs in a highly distressed neighborhood could be a significant improvement, but it might not be that significant in a marginally distressed neighborhood where the few foreclosed properties are in relatively good condition. On the other hand, stabilization efforts in highly distressed neighborhoods could be less effective if the conditions are dire.

Therefore, the REO Index should serve only as a starting point, and policymakers should consider the specific local conditions when formulating REO strategies.

What is the difference between the REO SOS Index and the HUD and LISC indexes?

In addition to the obvious difference in each index's methodology, the REO SOS Index focuses exclusively on factors closely related to REOs. Nonetheless, the HUD Foreclosure Risk Score and the LISC Foreclosure Needs Score consider factors related to potential foreclosures, such as the prevalence of high-cost (or subprime) mortgages, vacancy rate, unemployment rate, etc. If an organization's program seeks to target areas with high foreclosure risks, then HUD and LISC indexes may be more appropriate. If an organization is interested in stabilizing the properties that have already become REOs, then the REO SOS Index is more appropriate.

Although foreclosure risk and REOs are somewhat related, they are not necessarily correlated. For instance, only a portion of the foreclosures will eventually end up in REOs. In addition, even after foreclosed properties have become REOs, some local areas, especially the relatively healthy ones, could leave such properties to market forces and not need additional (public) intervention efforts.

In addition, there are more-minor differences between the REO SOS Index and the HUD/LISC indexes. The REO SOS Index uses more recent data and is calculated at the ZIP code level. The HUD Index is calculated at the Census Tract Group level, although the LISC Index uses ZIP codes.

Where can I obtain further information on the REO SOS index?

A discussion paper with more in-depth discussion of the Index and related REO issues is underway. Please contact Kai-yan Lee (*kai-yan.lee@bos.frb.org*) for questions regarding the index.

Rhode Island REO Stabilization Opportunity Score (Updated using March 2009 data)

ZIP Code ⁽¹⁾	Town ⁽²⁾	REO Stability Opportunity Score	Number of REOs ⁽³⁾	REOs per Square Mile	Index: REO Availability	Number of 90- day and more Delinquency ⁽³⁾	90-day and more Delinquency per Square Mile	Index: 90-day and more Delinquency	Median time of REO on Market (month) ⁽⁴⁾	Index: Median Time of REO on Market	Median Home Sales Price Decline ⁽⁵⁾	Percent of Median Home Sales Price Decline	Index: Home Sales Price Decline
02804	ASHAWAY	0.075	1	0.08	0.094	6	0.49	0.151	6.40	0.472	\$37,500	14.3%	0.151
02806	BARRINGTON	0.340	1	0.12	0.132	15	1.78	0.491	6.85	0.585	\$35,000	8.8%	0.057
	BRISTOL	0.396	2	0.20	0.283	21	2.08	0.547	6.56	0.509	\$54,000	15.5%	0.302
	CHARLESTOWN	0.151	2	0.05	0.113	16	0.43	0.189	5.81	0.245	\$65,000	17.8%	0.472
	CHEPACHET	0.321	5	0.11	0.321	19	0.42	0.226	5.84	0.264	\$55,100	20.0%	0.415
	COVENTRY	0.679	15	0.40	0.585	74	1.98	0.660	6.90	0.717	\$54,000	20.8%	0.434
	WEST GREENWICH	0.226	5	0.10	0.302	18	0.36	0.170	5.60	0.226	\$57,375	17.0%	0.377
	EAST GREENWICH	0.302	4	0.18	0.358	15	0.66	0.302	5.32	0.170	\$67,500	14.0%	0.358
	EXETER	0.019	2	0.04	0.057	10	0.18	0.075	5.44	0.208	\$50,100	13.9%	0.208
	FOSTER	0.170	2	0.03	0.038	12	0.21	0.132	6.60	0.528	\$53,000	16.7%	0.340
	GREENE	0.170	1	0.05	0.000	1	0.05	0.000	6.29	0.377	\$70,000	22.6%	0.660
	GREENVILLE	0.132	1	0.20	0.170	6	1.20	0.208	5.87	0.283	\$50,000	17.2%	0.321
	LITTLE COMPTON	0.170	1	0.05	0.019	2		0.019	18.10	1.000	\$2,000	0.5%	0.000
	NEWPORT	0.528	14	1.76	0.698	25	3.15	0.604	6.87	0.604	\$39,750	10.4%	0.113
	MIDDLETOWN	0.038	2	0.15	0.226	13	1.00	0.358	2.13	0.000	\$38,250	10.5%	0.094
02852	NORTH KINGSTOWN	0.566	9	0.27	0.509	24	0.73	0.415	7.10	0.792	\$64,000	18.9%	0.509
02857	NORTH SCITUATE	0.094	6	0.14	0.396	10	0.23	0.113	6.10	0.358	\$6,000	2.0%	0.019
	PASCOAG	0.245	2	0.07	0.151	16	0.57	0.283	4.92	0.132	\$65,272	22.1%	0.566
	PAWTUCKET	0.906	42	7.75	0.906	124	22.88	0.943	7.29	0.811	\$61,000	27.6%	0.717
	PAWTUCKET	0.868	8	2.26	0.642	71	20.06	0.868	7.90	0.925	\$60,500	25.7%	0.623
	CENTRAL FALLS	0.943	34	28.10	0.943	49	40.50	0.906	7.58	0.849	\$118,472	44.7%	0.981
	CUMBERLAND	0.660	13	0.49	0.604	57	2.13	0.642	6.87	0.604	\$65,000	21.3%	0.528
	LINCOLN	0.472	9	0.52	0.566	36	2.08	0.585	4.32	0.075	\$69,000	23.5%	0.679
02871	PORTSMOUTH	0.585	7	0.30	0.491	17	0.74	0.340	6.84	0.547	\$106,500	26.9%	0.887
	SAUNDERSTOWN	0.000	1	0.07	0.075	5	0.36	0.094	2.35	0.019	\$33,000	6.2%	0.038
	TIVERTON	0.755	7	0.24	0.453	27	0.92	0.472	8.82	0.981	\$75,000	25.0%	0.811
	WAKEFIELD	0.377	3	0.08	0.189	18	0.48	0.245	6.42	0.491	\$64,000	17.8%	0.453
	NARRAGANSETT	0.057	2	0.15	0.208	12	0.92	0.321	3.94	0.038	\$57,000	13.6%	0.245
	WARREN	0.358	2	0.33	0.340	13	2.11	0.509	5.87	0.283	\$47,500	16.3%	0.226
	WARWICK	0.642	18	1.21	0.679	75	5.06	0.717	7.08	0.755	\$40,000	16.3%	0.189
	WARWICK	0.604	14	2.30	0.736	53	8.69	0.736	5.89	0.321	\$52,500	22.7%	0.491
	WARWICK	0.830	36	4.10	0.849	96	10.95	0.830	6.87	0.604	\$62,310	27.1%	0.736
	WESTERLY	0.264	7	0.26	0.472	22	0.82	0.434	5.32	0.170	\$30,000	10.5%	0.075
	WEST KINGSTON	0.453	3	0.10	0.245	7	0.24	0.057	6.84	0.547	\$105,424	29.0%	0.906
	WEST WARWICK	0.774	30	3.93	0.811	69	9.03	0.774	6.90	0.717	\$57,000	24.4%	0.547
	WOONSOCKET	0.887	40	5.19	0.887	81	10.51	0.811	6.87	0.604	\$68,000	31.2%	0.849
02896	NORTH SMITHFIELD	0.113	5	0.22	0.434	14	0.63	0.264	3.94	0.038	\$44,220	14.0%	0.170
	WYOMING	0.491	2	0.19	0.264	2	0.19	0.038	7.08	0.755	\$85,000	27.4%	0.868
	PROVIDENCE	0.547	2	1.25	0.528	8		0.528	7.37	0.830	\$46,000	17.6%	0.283
	PROVIDENCE	0.811	33	6.23	0.868	83	15.66	0.849	6.87	0.604	\$57,500	25.3%	0.585
	PROVIDENCE	0.925	51	13.18	0.925	97	25.06	0.925	7.84	0.868	\$103,000	42.4%	0.943
	PROVIDENCE	0.717	11	3.33	0.755	20	6.06	0.623	8.08	0.943	\$55,250	14.4%	0.264
02907	PROVIDENCE	0.962	54	23.89	0.962	115	50.88	0.962	7.84	0.868	\$123,304	51.4%	1.000

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02908	PROVIDENCE	0.962		25.84		147	44.68	0.981	_	0.906	. ,		0.925
	PROVIDENCE	1.000		29.91	1.000	172	50.44	1.000		0.962	\$111,575		0.962
	CRANSTON	0.774	23	6.35		79		0.887		0.377	\$65,000		0.755
02911	NORTH PROVIDENCE	0.698				35		0.755		0.377	. ,		0.642
	EAST PROVIDENCE	0.623	10	1.85		34		0.679		0.377	\$60,250		0.604
	RIVERSIDE	0.491	6	1.16		18		0.566		0.340	. ,		0.396
02916	RUMFORD	0.283	3	1.15	0.547	6		0.377		0.113	\$37,000	13.5%	0.132
02917	SMITHFIELD	0.415	4	0.19	0.377	20	0.95	0.453	5.13	0.151	\$68,750		0.698
02919	JOHNSTON	0.736	27	1.14	-	87	3.67	0.698	6.29	0.377	\$71,900	28.2%	0.830
02920	CRANSTON	0.849	30	3.26	0.774	88		0.792	6.89	0.698	\$68,500	26.3%	0.774
02921	CRANSTON	0.434	4	0.28	0.415	15	1.05	0.396	4.32	0.075	\$84,500	21.4%	0.792
ZIP Codes with Insufficent Data and Were Excluded in the Score Calculation													
02815	CLAYVILLE		2	0.80		2	0.80		3.37				
02831	HOPE		3	0.37		7	0.87		3.35				
02838	MANVILLE		1	1.14		1	1.14		5.87				
02858	OAKLAND		1	1.14		2	2.27		10.53				
02872	PRUDENCE ISLAND		1			1			10.26				
02902	PROVIDENCE		1			1			5.32				

Notes:

(1) Only includes ZIPs codes with sufficient data in the calculation of the scores.

(2) Town names are based on USPS standard town names assigned to the ZIP codes. Some, though not many, ZIP codes may cross town limits and therefore cover multiple towns.

(3) Reflect status as of March 2009. The dataset from LPS Applied Analytics covers approximately 75% of the mortgages in RI. Therefore, it is possible that the actual numbers of REOs and delinquencies are slightly higher than these estimates, which are based on the dataset from LPS Applied Analytics.

(4) The calculation includes properties became REO since 2005, covering properties currently still on the market and the ones already have been purchased.

(5) Median home sales price decline calculated based on transaction records from the Warren Group. It is the difference between the median home sales price for the period of Jan 2005-June 2006 and the period of Jan. 2009 - Jan. 2009. ZIP codes with fewer than 15 transactions in either period are eliminated from the calculation as a small transaction volume could severely skew the median sales price.