

Texas Department of Housing and Community Affairs - 2013 RAF Model with Three Variables

Table 1 - Raw Data

Region (MSA Counties)	People at 200% Poverty	Percent of statewide 200% poverty	Cost Burden, Renters	Percent of statewide burden	Vacancies, Rental	Percent of statewide vancancy
1	197,083	2.2%	34,134	2.5%	7,317	2.10%
2	107,155	1.2%	17,649	1.3%	4,467	1.28%
3	1,995,573	22.3%	378,790	28.1%	103,640	29.73%
4	184,785	2.1%	24,738	1.8%	3,692	1.06%
5	145,209	1.6%	17,665	1.3%	3,740	1.07%
6	1,959,263	21.9%	327,333	24.3%	104,089	29.86%
7	486,104	5.4%	119,548	8.9%	18,889	5.42%
8	335,779	3.7%	59,852	4.4%	17,275	4.96%
9	739,878	8.3%	110,578	8.2%	27,784	7.97%
10	209,455	2.3%	33,394	2.5%	7,699	2.21%
11	834,165	9.3%	56,907	4.2%	11,795	3.38%
12	134,615	1.5%	17,406	1.3%	4,141	1.19%
13	401,674	4.5%	41,999	3.1%	7,903	2.27%
Region (Non-MSA Counties)	People at 200% Poverty	Percent of statewide 200% poverty	Cost Burden, Renters	Percent of statewide burden	Vacancies, Rental	Percent of statewide vancancy
1	122,109	1.4%	9,348	0.7%	2,762	0.8%
2	94,601	1.1%	8,281	0.6%	2,401	0.7%
3	86,260	1.0%	10,771	0.8%	1,813	0.5%
4	213,083	2.4%	17,243	1.3%	4,136	1.2%
5	152,551	1.7%	15,256	1.1%	3,449	1.0%
6	59,244	0.7%	8,512	0.6%	2,040	0.6%
7	37,999	0.4%	3,757	0.3%	1,292	0.4%
8	93,928	1.0%	7,502	0.6%	1,606	0.5%
9	34,823	0.4%	3,999	0.3%	782	0.2%
10	87,618	1.0%	6,819	0.5%	2,506	0.7%
11	161,792	1.8%	8,791	0.7%	2,115	0.6%
12	70,228	0.8%	4,816	0.4%	1,028	0.3%
13	12,311	0.1%	866	0.1%	213	0.1%

Total 8,957,285 100% 1,345,954 348,574

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Table 2 - Weighted Variables

Sample
HTC RAF \$ 40,000,000

MSA regions	% of statewide 200% poverty	Weight		Weight		Weight	
		100.00%	% of statewide burden	100.00%	% of statewide vancancy	-100.00%	Sub-region amount
1	2.2%	\$ 880,102	2.5%	\$ 1,014,418	2.1%	\$ (839,650)	\$ 1,054,870
2	1.2%	\$ 478,516	1.3%	\$ 524,505	1.3%	\$ (512,603)	\$ 490,418
3	22.3%	\$ 8,911,508	28.1%	\$ 11,257,145	29.7%	\$ (11,893,027)	\$ 8,275,627
4	2.1%	\$ 825,183	1.8%	\$ 735,181	1.1%	\$ (423,669)	\$ 1,136,695
5	1.6%	\$ 648,451	1.3%	\$ 524,981	1.1%	\$ (429,177)	\$ 744,255
6	21.9%	\$ 8,749,361	24.3%	\$ 9,727,910	29.9%	\$ (11,944,551)	\$ 6,532,720
7	5.4%	\$ 2,170,765	8.9%	\$ 3,552,811	5.4%	\$ (2,167,574)	\$ 3,556,002
8	3.7%	\$ 1,499,468	4.4%	\$ 1,778,723	5.0%	\$ (1,982,362)	\$ 1,295,829
9	8.3%	\$ 3,304,028	8.2%	\$ 3,286,234	8.0%	\$ (3,188,304)	\$ 3,401,958
10	2.3%	\$ 935,350	2.5%	\$ 992,426	2.2%	\$ (883,485)	\$ 1,044,291
11	9.3%	\$ 3,725,080	4.2%	\$ 1,691,202	3.4%	\$ (1,353,515)	\$ 4,062,767
12	1.5%	\$ 601,142	1.3%	\$ 517,284	1.2%	\$ (475,193)	\$ 643,232
13	4.5%	\$ 1,793,731	3.1%	\$ 1,248,156	2.3%	\$ (906,895)	\$ 2,134,992
Sub-region MSA Total	86.3%	\$ 34,522,684	92.1%	\$ 36,850,977	92.5%	\$ (37,000,006)	\$ 34,373,655
Non-MSA regions	% of statewide 200% poverty	100.00%	% of statewide burden	100.00%	% of statewide vancancy	-100.00%	Sub-region amount
1	1.4%	\$ 545,295	0.7%	\$ 277,810	0.8%	\$ (316,948)	\$ 506,157
2	1.1%	\$ 422,454	0.6%	\$ 246,101	0.7%	\$ (275,523)	\$ 393,032
3	1.0%	\$ 385,206	0.8%	\$ 320,100	0.5%	\$ (208,048)	\$ 497,258
4	2.4%	\$ 951,552	1.3%	\$ 512,440	1.2%	\$ (474,619)	\$ 989,372
5	1.7%	\$ 681,238	1.1%	\$ 453,388	1.0%	\$ (395,784)	\$ 738,842
6	0.7%	\$ 264,562	0.6%	\$ 252,966	0.6%	\$ (234,097)	\$ 283,431
7	0.4%	\$ 169,690	0.3%	\$ 111,653	0.4%	\$ (148,261)	\$ 133,082
8	1.0%	\$ 419,449	0.6%	\$ 222,950	0.5%	\$ (184,294)	\$ 458,104
9	0.4%	\$ 155,507	0.3%	\$ 118,845	0.2%	\$ (89,737)	\$ 184,615
10	1.0%	\$ 391,270	0.5%	\$ 202,652	0.7%	\$ (287,572)	\$ 306,350
11	1.8%	\$ 722,505	0.7%	\$ 261,257	0.6%	\$ (242,703)	\$ 741,059
12	0.8%	\$ 313,613	0.4%	\$ 143,125	0.3%	\$ (117,966)	\$ 338,772
13	0.1%	\$ 54,976	0.1%	\$ 25,736	0.1%	\$ (24,442)	\$ 56,270
Sub-region non-MSA Total	13.7%	\$ 5,477,316	7.9%	\$ 3,149,023	7.5%	\$ (2,999,994)	\$ 5,626,345
Statewide Total	100.0%	\$ 40,000,000	100.0%	\$ 40,000,000	100.0%	\$ (40,000,000)	\$ 40,000,000

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Table 3 - \$500,000 Adjustment

Sample HTC RAF \$ 40,000,000							
MSA regions	Sub-region amount	Amount needed to reach \$500,000	Amount over \$500,000 that can be reallocated	Proportion of amount available to be reallocated	Amount to be reallocated	Final Sub-Amount	% of Total Funding
1	\$ 1,054,870	\$ -	\$ 554,870	2%	\$ (35,736.86)	\$ 1,019,133	2.5%
2	\$ 490,418	\$ 9,582	\$ -	0%	\$ 9,581.95	\$ 500,000	1.3%
3	\$ 8,275,627	\$ -	\$ 7,775,627	27%	\$ (500,795.72)	\$ 7,774,831	19.4%
4	\$ 1,136,695	\$ -	\$ 636,695	2%	\$ (41,006.89)	\$ 1,095,688	2.7%
5	\$ 744,255	\$ -	\$ 244,255	1%	\$ (15,731.42)	\$ 728,523	1.8%
6	\$ 6,532,720	\$ -	\$ 6,032,720	21%	\$ (388,542.37)	\$ 6,144,178	15.4%
7	\$ 3,556,002	\$ -	\$ 3,056,002	11%	\$ (196,824.33)	\$ 3,359,177	8.4%
8	\$ 1,295,829	\$ -	\$ 795,829	3%	\$ (51,256.02)	\$ 1,244,573	3.1%
9	\$ 3,401,958	\$ -	\$ 2,901,958	10%	\$ (186,903.01)	\$ 3,215,055	8.0%
10	\$ 1,044,291	\$ -	\$ 544,291	2%	\$ (35,055.53)	\$ 1,009,236	2.5%
11	\$ 4,062,767	\$ -	\$ 3,562,767	12%	\$ (229,462.98)	\$ 3,833,304	9.6%
12	\$ 643,232	\$ -	\$ 143,232	0%	\$ (9,225.00)	\$ 634,007	1.6%
13	\$ 2,134,992	\$ -	\$ 1,634,992	6%	\$ (105,303.00)	\$ 2,029,689	5.1%
Sub-region MSA Total	\$ 34,373,655	\$ 9,582	\$ 27,883,237	97%		\$ 32,587,394	81.5%
Non-MSA regions	Sub-region amount	Amount needed to reach \$500,000	Amount over \$500,000 that can be reallocated	Proportion of amount available to be reallocated	Amount to be reallocated	Final Sub-Amount	% of Total
1	\$ 506,157	\$ -	\$ 6,157	0%	\$ (396.52)	\$ 505,760	1.3%
2	\$ 393,032	\$ 106,968	\$ -	0%	\$ 106,968.12	\$ 500,000	1.3%
3	\$ 497,258	\$ 2,742	\$ -	0%	\$ 2,741.54	\$ 500,000	1.3%
4	\$ 989,372	\$ -	\$ 489,372	2%	\$ (31,518.40)	\$ 957,853	2.4%
5	\$ 738,842	\$ -	\$ 238,842	1%	\$ (15,382.83)	\$ 723,459	1.8%
6	\$ 283,431	\$ 216,569	\$ -	0%	\$ 216,568.77	\$ 500,000	1.3%
7	\$ 133,082	\$ 366,918	\$ -	0%	\$ 366,918.24	\$ 500,000	1.3%
8	\$ 458,104	\$ 41,896	\$ -	0%	\$ 41,895.53	\$ 500,000	1.3%
9	\$ 184,615	\$ 315,385	\$ -	0%	\$ 315,385.03	\$ 500,000	1.3%
10	\$ 306,350	\$ 193,650	\$ -	0%	\$ 193,649.50	\$ 500,000	1.3%
11	\$ 741,059	\$ -	\$ 241,059	1%	\$ (15,525.58)	\$ 725,533	1.8%
12	\$ 338,772	\$ 161,228	\$ -	0%	\$ 161,228.21	\$ 500,000	1.3%
13	\$ 56,270	\$ 443,730	\$ -	0%	\$ 443,729.57	\$ 500,000	1.3%
Sub-region Non-MSA Total	\$ 5,626,345	\$ 1,849,085	\$ 975,429	3%		\$ 7,412,606	18.5%
State Total	\$ 40,000,000	\$ 1,858,666	\$ 28,858,666			\$ 40,000,000	

Minimum needed for each region	\$ 500,000
Total if each subregion has \$500,000	\$ 13,000,000
Amount available to be reallocated	\$ 28,858,666
Amount needed to bring underallocated regions to \$500,000	\$ 1,858,666