Bridging The Financial Gap

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Annual Mortgage Expense – Honolulu Versus Mainland

Annual Mortgage Expense for 8 cities with comparable median income to Honolulu 2006

								Afforda	bility
Year	Median Sales Price Single-family	30-year mortgage interest rate	Annual Mortgage Expense [1] Single-family	80% Median Family Income	Median Family Income	120% Median Family Income	House Payment Divided By 80% Median	House Payment Divided By Median Income	House Payment Divided By 120% Median
Seattle	\$361,200	6.25 %	\$24,019	\$59,440.0	\$74,300	\$89,160	40.4%	32.3%	26.9%
Philadelphia	230,200	6.25	\$15,308	\$57,680.0	\$72,100	\$86,520	26.5%	21.2%	17.7%
Chicago	273,500	6.25	\$18,187	\$57,920.0	\$72,400	\$86,880	31.4%	25.1%	20.9%
Balitmore	235,300	6.25	\$15,647	\$58,240.0	\$72,800	\$87,360	26.9%	21.5%	17.9%
Kanas city	155,800	6.25	\$10,360	\$54,080.0	\$67,600	\$81,120	19.2%	15.3%	12.8%
Atlanta	153,000	6.25	\$10,174	\$53,200.0	\$66,500	\$79,800	19.1%	15.3%	12.7%
Denver	249,500	6.25	\$16,591	\$57,040.0	\$71,300	\$85,560	29.1%	23.3%	19.4%
Dallas Fort Worth	149,500	6.25	\$9,941	\$52,400.0	\$65,500	\$78,600	19.0%	15.2%	12.6%
Average	226,000	6.25	\$15,028	\$56,250.0	70,313	\$84,375	26.7%	21.4%	17.8%
Honolulu	630,000	6.25	\$41,893	\$57,040.0	\$71,300	\$85,560	73.4%	58.8%	49.0%
Income need to afford	620,000	6.25	\$41,228		\$146,165 205% AMI			28.2%	

[1] Assuming 10% down payment.

Financial Gap Analysis – 2 Bedroom

Methodology



Affordable Rent

- 2 Bedroom 50% Area Medium Income
 - \$802 per month
 - \$0.97 rent per square foot



Net Operating Income

Net Operating Income =

Rent – Operating Expenses – Vacancy – Cap-X

- Assumption
 - 2 Bedroom operating expenses, vacancy, cap x
 - = \$500 per month
- NOI = \$802 \$500 = \$302

Debt Service Coverage Ratio

Debt Service Coverage Ratio = Net Operating Income / Total Debt Service

- Assumption
 - Debt service coverage ratio = 1.10
- Debt Service Coverage = \$302/1.10 = \$275

Debt Service Constant

Debt Service Constant = Percentage ratio between the debt service and the loan principal

- Assumption
 - Debt service constant = 6.75%
- Mortgage amount = (\$275/6.75%)*12 = \$48,889

Market Value

Capitalization Rate = Net Operating Income / Market Value

- Assumption
 - Capitalization Rate = 6.25%
- Market Value = (\$302/6.25%)*12 = \$57,984

Cost to Build

- Assumption
 - 2 bedroom cost to build is \$303 per square foot
 - -2 bedroom square feet = 825
- Cost to build 2 Bedroom = \$249,975



Cost Difference

- Cost = \$249,975
- Mortgage = \$48,889
- Cost Difference = \$201,086



Subsidy - 9%

- Total Cost Difference = \$201,086
- Assumption
 - Low Income Housing Tax Credits = \$150,000
- Balance after tax credits = \$51,086
- Rural Housing Trust Fund to fund balance



Subsidy - 4%

- Total Cost Difference = \$201,086
- Assumption
 - Low Income Housing Tax Credits = \$87,500
- Balance after tax credits = \$113,586
- Rural Housing Trust Fund to fund balance



Gap Analysis 2 Bedroom Overview

2 Bedroom 50% AMI Financial Anaylsis

Assumption	ons			Analysis			
	Square Feet	\$	825		Rent	\$ 802	
	Expenses	\$	500		Expenses	\$ 500	
	DSCR		1.1		NOI	\$ 302	Rent - Expenses
	DSC		6.75%				
	Cap Rate		6.25%		DSC	\$ 275	NOI / DSCR
	Cost / SF	\$	303		Mortgage	\$ 48,889	Actual DSC / DSC % *12 months
					Market Value	\$ 57,984	NOI / Cap Rate *12 Months
	9% LIHTC	\$1	50,000		Build Cost	\$ 249,975	Square Feet * Cost / SF
	4% LIHTC	\$	87,500		Cost	\$ 201,086	Build Cost - Mortgage

9% LIHTC		
	Cost	\$201,086
	LIHTC	\$150,000
	RHTF Bal	\$ 51,086
4% LIHTC		
	Cost	\$201,086
	LIHTC	\$ 87,500
	RHTF Bal	\$113,586

Alternative Scenarios - 9% LIHTC

30% AMI	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>-\$20,202.02</u>	<u>-\$16,000.00</u>	<u>-\$3,070.71</u>	<u>\$9,050.51</u>	\$19,393.94
	\$222,702.02	\$240,580.00	\$253,045.71	\$246,424.49	\$235,906.06
LIHTC	\$114,545.00	\$134,727.00	\$150,000.00	\$153,285.00	\$153,180.00
RHTF NEEDED	\$108,157.02	\$105,853.00	\$103,045.71	\$93,139.49	\$82,726.06
50% AMI					
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	\$19,878.7 <u>9</u>	<u>\$27,151.52</u>	<u>\$48,808.08</u>	<u>\$68,848.48</u>	<u>\$86,141.41</u>
	\$182,621.21	\$197,428.48	\$201,166.92	\$186,626.52	\$169,158.59
LIHTC	\$114,545.00	\$134,727.00	\$150,000.00	\$153,285.00	\$153,180.00
RHTF NEEDED	\$68,076.21	\$62,701.48	\$51,166.92	\$33,341.52	\$15,978.59
60% AMI					
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	\$40,080.81	<u>\$48,646.46</u>	\$74,828.28	\$98,909.09	\$119,595.96
	\$162,419.19	\$175,933.54	\$175,146.72	\$156,565.91	\$135,704.04
LIHTC	\$114,545.00	\$134,727.00	\$150,000.00	\$153,285.00	\$153,180.00
RHTF NEEDED	\$47,874.19	\$41,206.54	\$25,146.72	\$3,280.91	-\$17,475.96

Alternative Scenarios – 4% LIHTC

30% AMI	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	-\$20,202.02	<u>-\$16,000.00</u>	-\$3,070.71	\$9,050.5 <u>1</u>	\$19,393.94
	\$222,702.02	\$240,580.00	\$253,045.71	\$246,424.49	\$235,906.06
LIHTC	\$68,818.00	\$78,591.00	\$87,500.00	\$89,416.25	\$89,355.00
RHTF NEEDED	\$153,884.02	\$161,989.00	\$165,545.71	\$157,008.24	\$146,551.06
50% AMI					
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$19,878.79</u>	<u>\$27,151.52</u>	<u>\$48,808.08</u>	\$68,848.48	<u>\$86,141.41</u>
	\$182,621.21	\$197,428.48	\$201,166.92	\$186,626.52	\$169,158.59
LIHTC	\$68,818.00	\$78,591.00	\$87,500.00	\$89,416.25	\$89,355.00
RHTF NEEDED	\$113,803.21	\$118,837.48	\$113,666.92	\$97,210.27	\$79,803.59
60% AMI					
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$80,484.85</u>	<u>\$92,121.21</u>	<u>\$126,545.45</u>	<u>\$158,868.69</u>	<u>\$186,666.67</u>
	\$122,015.15	\$132,458.79	\$123,429.55	\$96,606.31	\$68,633.33
LIHTC	\$68,818.00	\$78,591.00	\$87,500.00	\$89,416.25	\$89,355.00
RHTF NEEDED	\$53,197.15	\$53,867.79	\$35,929.55	\$7,190.06	-\$20,721.67

Alternative Scenarios - No LIHTC

	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom
Market value (80% AMI)	\$95,616.00	\$109,440.00	\$150,336.00	\$188,736.00	\$221,760.00
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$80,484.85</u>	<u>\$92,121.21</u>	<u>\$126,545.45</u>	<u>\$158,868.69</u>	<u>\$186,666.67</u>
	\$122,015.15	\$132,458.79	\$123,429.55	\$96,606.31	\$68,633.33
LIHTC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQUITY	\$122,015.15	\$132,458.79	\$123,429.55	\$96,606.31	\$68,633.33
Market value (100% AMI)	\$143,424.00	\$160,512.00	\$211,968.00	\$259,776.00	\$300,864.00
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$120,727.27</u>	<u>\$135,111.11</u>	<u>\$178,424.24</u>	<u>\$218,666.67</u>	<u>\$253,252.53</u>
	\$81,772.73	\$89,468.89	\$71,550.76	\$36,808.33	\$2,047.47
LIHTC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQUITY	\$81,772.73	\$89,468.89	\$71,550.76	\$36,808.33	\$2,047.47

Alternative Scenarios - No LIHTC

	Studio	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom
Market value (120% AMI)	\$167,232.00	\$186,163.20	\$242,764.80	\$295,353.60	\$340,550.40
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$140,767.68</u>	<u>\$156,703.03</u>	<u>\$204,347.47</u>	<u>\$248,614.14</u>	<u>\$286,658.59</u>
	\$61,732.32	\$67,876.97	\$45,627.53	\$6,860.86	-\$31,358.59
LIHTC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQUITY	\$61,732.32	\$67,876.97	\$45,627.53	\$6,860.86	-\$31,358.59
Market value (140% AMI)	\$191,424.00	\$211,968.00	\$273,600.00	\$331,008.00	\$380,352.00
Cost	\$202,500.00	\$224,580.00	\$249,975.00	\$255,475.00	\$255,300.00
Loan	<u>\$161,131.31</u>	<u>\$178,424.24</u>	\$230,303.03	<u>\$278,626.26</u>	\$320,161.62
	\$41,368.69	\$46,155.76	\$19,671.97	-\$23,151.26	-\$64,861.62
LIHTC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
EQUITY	\$41,368.69	\$46,155.76	\$19,671.97	-\$23,151.26	-\$64,861.62

Looming Potential Rent Increases

Potential Rent Increase For A Home That Increases In Value and The PE Changes From 17 to 12

Year	Value	PE	Rent (Annual)	Rent (Month)	PE	Rent (Annual)	Rent (Month)	Rent Increase Amount	%
2006	\$500,000	17	\$29,412	\$2,451	12	\$41,667	\$3,472	\$1,736	50%
2000	\$250,000	17	\$14,706	\$1,225	12	\$20,833	\$1,736	\$2,247	183.33%
2006	\$400,000	17	\$23,529	\$1,961	12	\$33,333	\$2,778	\$1,389	50%
2000	\$200,000	17	\$11,765	\$980	12	\$16,667	\$1,389	\$1,797	183.33%
2006	\$250,000	17	\$14,706	\$1,225	12	\$20,833	\$1,736	\$868	50%
2000	\$125,000	17	\$7,353	\$613	12	\$10,417	\$868	\$1,123	183.33%

Validation Of PE Ratio At Various Sales Prices Of A Home

Price	250000	400000	500000
% Loan	0.8%	0.8%	0.8%
Loan	200000	320000	400000
DS	0.065	0.65	0.065
Mgt Pay	1083.333	1733.333	2166.667
Tax	925	1500	1875
Misc	250	250	250
Total Payment	2258.333	3483.333	4291.667
Rent @ 17	\$1,225	\$1,961	\$2,451
Loss	(\$1,033)	(\$1,523)	(\$1,841)
Total	2258.333	3483.333	4291.667
Rent @ 12	\$1,736	\$2,778	\$3,472
Loss			

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