

East King Acute Care Bed Need  
Appendix 1

<b>1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	1,231,384	1,260,919	1,309,677	1,361,082	1,370,268	1,387,558	1,403,345	1,439,081	1,452,646	1,499,439	<b>13,715,399</b>
<b>East King</b>	105,117	107,374	117,204	117,601	114,787	119,269	121,980	133,514	132,771	131,709	<b>1,201,326</b>
<b>STATEWIDE TOTAL</b>	<b>1,891,585</b>	<b>1,954,098</b>	<b>2,034,921</b>	<b>2,120,316</b>	<b>2,121,795</b>	<b>2,143,447</b>	<b>2,158,760</b>	<b>2,227,692</b>	<b>2,277,848</b>	<b>2,344,010</b>	<b>21,274,472</b>

East King Acute Care Bed Need  
Appendix 2

<b>1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	1,231,384	1,260,919	1,309,677	1,361,082	1,370,268	1,387,558	1,403,345	1,439,081	1,452,646	1,499,439	<b>13,715,399</b>
<b>East King</b>	105,117	107,374	117,204	117,601	114,787	119,269	121,980	133,514	132,771	131,709	<b>1,201,326</b>
<b>STATEWIDE TOTAL</b>	<b>1,891,585</b>	<b>1,954,098</b>	<b>2,034,921</b>	<b>2,120,316</b>	<b>2,121,795</b>	<b>2,143,447</b>	<b>2,158,760</b>	<b>2,227,692</b>	<b>2,277,848</b>	<b>2,344,010</b>	<b>21,274,472</b>
<b>1998-2007 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	568	485	412	578	553	810	615	635	661	820	<b>6,137</b>
<b>East King</b>	183	221	119	146	117	119	75	250	551	796	<b>2,577</b>
<b>STATEWIDE TOTAL</b>	<b>688</b>	<b>543</b>	<b>456</b>	<b>610</b>	<b>510</b>	<b>985</b>	<b>719</b>	<b>711</b>	<b>747</b>	<b>966</b>	<b>6,935</b>
<b>HSA #1 Hospitals include: BHC Fairfax in Kirkland, West Seattle Psych Hospital in Seattle, and Puget Sound Behavioral Health in Tacoma</b>											
<b>1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	1,230,816	1,260,434	1,309,265	1,360,504	1,369,715	1,386,748	1,402,730	1,438,446	1,451,985	1,498,619	<b>13,709,262</b>
<b>East King</b>	104,934	107,153	117,085	117,455	114,670	119,150	121,905	133,264	132,220	130,913	<b>1,198,749</b>
<b>STATEWIDE TOTAL</b>	<b>1,890,897</b>	<b>1,953,555</b>	<b>2,034,465</b>	<b>2,119,706</b>	<b>2,121,285</b>	<b>2,142,462</b>	<b>2,158,041</b>	<b>2,226,981</b>	<b>2,277,101</b>	<b>2,343,044</b>	<b>21,267,537</b>

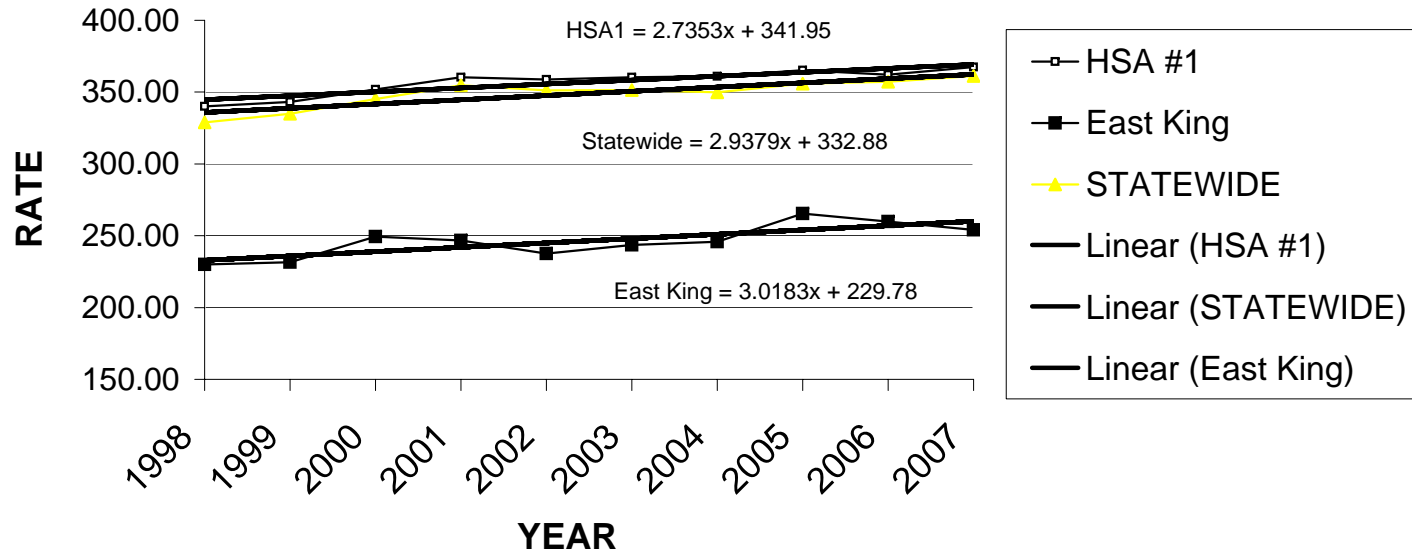
East King Acute Care Bed Need  
Appendix 3

<b>1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	1,230,816	1,260,434	1,309,265	1,360,504	1,369,715	1,386,748	1,402,730	1,438,446	1,451,985	1,498,619	<b>13,709,262</b>
<b>East King</b>	104,934	107,153	117,085	117,455	114,670	119,150	121,905	133,264	132,220	130,913	<b>1,198,749</b>
<b>STATEWIDE TOTAL</b>	<b>1,890,897</b>	<b>1,953,555</b>	<b>2,034,465</b>	<b>2,119,706</b>	<b>2,121,285</b>	<b>2,142,462</b>	<b>2,158,041</b>	<b>2,226,981</b>	<b>2,277,101</b>	<b>2,343,044</b>	<b>21,267,537</b>
<b>TOTAL POPULATIONS BY HSA</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	3,620,228	3,673,734	3,721,775	3,776,110	3,818,510	3,849,500	3,885,500	3,938,000	4,010,700	4,077,900	<b>38,371,957</b>
<b>East King *</b>	456,334	462,898	469,462	476,026	482,590	489,154	495,718	502,282	508,846	515,410	<b>4,858,720</b>
<b>STATEWIDE TOTAL</b>	<b>5,750,033</b>	<b>5,830,835</b>	<b>5,894,143</b>	<b>5,974,910</b>	<b>6,041,710</b>	<b>6,098,300</b>	<b>6,167,800</b>	<b>6,256,400</b>	<b>6,376,000</b>	<b>6,488,000</b>	<b>60,878,131</b>
<b>USE RATE PER 1,000 BY HSA</b>											
	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>10-YEAR TOTAL</b>
<b>HSA #1</b>	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	362.03	367.50	<b>3,570</b>
<b>East King</b>	229.95	231.48	249.40	246.74	237.61	243.58	245.92	265.32	259.84	254.00	<b>2,464</b>
<b>STATEWIDE</b>	<b>328.85</b>	<b>335.04</b>	<b>345.17</b>	<b>354.77</b>	<b>351.11</b>	<b>351.32</b>	<b>349.89</b>	<b>355.95</b>	<b>357.14</b>	<b>361.14</b>	<b>3,490</b>

East King Acute Care Bed Need  
Appendix 4

USE RATE PER 1,000 BY HSA												
HSA #1	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL	Trendline
HSA #1	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	362.03	367.50	3,569.91	2.7353
East King	229.95	231.48	249.40	246.74	237.61	243.58	245.92	265.32	259.84	254.00	2,463.85	3.0183
STATEWIDE	328.85	335.04	345.17	354.77	351.11	351.32	349.89	355.95	357.14	361.14	3,490.36	2.9379

## USE RATES FOR HSA #1 AND EAST KING PLANNING AREA



East King Acute Care Bed Need  
Appendices 5 & 6

STEP #5									
2007 DATA									
	# of Pat days	Less OOS	TOTAL LESS OOS						
<b>East King Hospitals</b>					%				
0-64	78,049	862	77,187		1.10%				
65+	52,864	863	52,001		1.63%				
<b>TOTAL</b>	<b>130,913</b>	<b>1,725</b>	<b>129,188</b>						
<b>WA - EK</b>									
0-64	1,329,644	73,513	1,256,131		5.53%				
65+	882,487	39,801	842,686		4.51%				
<b>TOTAL</b>	<b>2,212,131</b>	<b>113,314</b>	<b>2,098,817</b>						
	<b>TO East King</b>	<b>TO WA</b>				<b>TOTAL # OF DAYS FOR RESIDENTS BY HSA (LESS PATS FROM OOS)</b>	<b>ADD DAYS PROVIDED IN OREGON **</b>	<b>TOTAL # OF DAYS FOR RESIDENTS BY HSA</b>	
<b>FROM East King</b>									
0-64	43,868	33,319				77,187	268	77,455	
65+	36,272	17,148				53,420	151	53,571	
<b>TOTAL</b>	<b>80,140</b>	<b>50,467</b>				<b>130,607</b>	<b>419</b>	<b>131,026</b>	
<b>FROM WA</b>									
0-64	33,319	1,222,812				1,256,131	43,189	1,299,320	
65+	15,729	825,538				841,267	18,193	859,460	
<b>TOTAL</b>	<b>49,048</b>	<b>2,048,350</b>				<b>2,097,398</b>	<b>61,382</b>	<b>2,158,780</b>	
	<b>129,188</b>	<b>2,098,817</b>							
									** Patient Days as reported by 2006 HCUP data for Oregon CHARS
<b>MARKET SHARE</b>									
<b>PERCENTAGE OF PATIENT DAYS</b>									
	<b>TO East King</b>	<b>TO WA</b>	<b>TO OREGON</b>						
<b>% OF East King RESIDENTS</b>									
0-64	56.64%	43.02%				0.35%			
65+	67.71%	32.01%				0.28%			
<b>TOTAL</b>									
<b>% OF WA - EK RESIDENTS</b>									
0-64	2.56%	94.11%				3.32%			
65+	1.83%	96.05%				2.12%			
<b>TOTAL</b>									
<b>2007 POPULATIONS BY PLANNING AREA</b>									
	<b>East King</b>	<b>TO WA</b>							
0-64	459,827	5,281,288							
65+	55,583	691,302							
<b>TOTAL</b>	<b>515,410</b>	<b>5,972,590</b>							
<b>STEP #6</b>									
<b>USE RATE BY PLANNING AREA</b>									
	<b>East King</b>	<b>TO WA</b>							
<b>USE RATES</b>									
0-64	168.44	246.02							
65+	963.80	1,243.25							

East King Acute Care Bed Need  
Appendix 7A

USE RATE BY PLANNING AREA FROM STEP 6							
	<b>East King</b>						
YEAR 2007 USE RATES							
0-64	168.44						
65+	963.80						
PROJECTED POPULATION	YEAR 2014						
	<b>East King</b>						
0-64	483,286						
65+	76,252						
<b>TOTALS</b>	<b>559,538</b>						
PROJECTED 2014 USE RATE							
	<b>East King</b>						
USE RATES*							
0-64 using HSA Trend	<b>187.59</b>						
0-64 using Statewide Trend	189.01						
65+ using HSA Trend	<b>982.95</b>						
65+ using Statewide Trend	984.37						
* Projected by applying either HSA trend or Statewide trend, whichever trend would result in the smaller adjustment							
<b>Bold Print</b> indicates use rate closest to current value							

East King Acute Care Bed Need  
Appendix 8

USE RATE BY HSA FROM STEP 7A	
PROJECTED USE RATE - 2014	<b>East King</b>
USE RATES	
0-64	187.59
65+	982.95
PROJECTED POPULATION - 2014	
	<b>East King</b>
0-64	483,286
65+	76,252
<b>TOTALS</b>	<b>559,538</b>
PROJECTED # OF PATIENT DAYS	YEAR 2014
	<b>East King</b>
0-64	90,660
65+	74,951
<b>TOTALS</b>	<b>165,611</b>

East King Acute Care Bed Need  
Appendix 9

PROJECTED # OF PATIENT DAYS				
YEAR 2014	<b>East King</b>	<b>WA - EK</b>	<b>TOTAL</b>	
0-64	90,660	1,474,893	1,565,553	
65+	74,951	1,108,683	1,183,634	
<b>TOTALS</b>	<b>165,611</b>	<b>2,583,576</b>	<b>2,749,187</b>	
<b>MARKET SHARE % OF PATIENT DAYS FROM STEP 1</b>				
% OF East King RESIDENTS	<b>East King</b>	<b>WA - EK</b>	<b>TO OREGON</b>	
0-64	56.64%	43.02%	0.35%	
65+	67.71%	32.01%	0.28%	
% OF WA - EK RESIDENTS	<b>East King</b>	<b>WA - EK</b>	<b>TO OREGON</b>	
0-64	2.56%	94.11%	3.32%	
65+	1.83%	96.05%	2.12%	
# OF East King RESIDENTS	<b>East King</b>	<b>WA - EK</b>	<b>TO OREGON</b>	<b>Total</b>
0-64	51,347	38,999	314	90,660
65+	50,748	23,992	211	74,951
				165,611
# OF WA - EK RESIDENTS	<b>East King</b>	<b>WA - EK</b>	<b>TO OREGON</b>	<b>Total</b>
0-64	37,821	1,388,047	49,025	1,474,893
65+	20,290	1,064,924	23,469	1,108,683
				2,583,576
# OF RESIDENT PAT DAYS PROJECTED IN East King				
0-64	89,168			
65+	71,038			
# OF RESIDENT PAT DAYS PROJECTED IN WA - EK				
0-64	1,427,046			
65+	1,088,916			
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON				
0-64	49,339			
65+	23,680			
<b>OUT OF STATE % OF PATIENT DAYS FROM STEP 1</b>				
<b>East King</b>	%			
0-64	1.12%			
65+	1.66%			
<b>WA - EK</b>				
0-64	5.85%			
65+	4.72%			
PROJECTED # OF PATIENT DAYS 2014 PLUS OUT OF STATE RESIDENTS				
<b>East King</b>				
0-64	90,164	0.994528515		
65+	72,217	0.963521164		
<b>TOTAL</b>	<b>162,381</b>			

East King Acute Care Bed Need - No Change  
Appendix 10a

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>East King Planning Area</b>											
<b>Population 0-64(1)</b>	459,827	465,022	468,066	471,110	474,154	477,198	480,242	483,286	486,330	489,374	492,418
<b>0-64 Use Rate</b>	168.44	171.18	173.91	176.65	179.38	182.12	184.86	187.59	190.33	193.06	195.80
<b>Population 65+(1)</b>	55,583	56,952	60,169	63,385	66,602	69,818	73,035	76,252	79,468	82,685	85,901
<b>65+ Use Rate</b>	963.80	966.54	969.27	972.01	974.74	977.48	980.21	982.95	985.68	988.42	991.15
<b>Total Population</b>	515,410	521,974	528,235	534,495	540,756	547,016	553,277	559,538	565,798	572,059	578,319
<b>Total East King Res Days</b>	131,026	134,648	139,723	144,832	149,976	155,153	160,365	165,611	170,892	176,207	181,555
<b>Total Days in East King Hospitals (2)</b>	128,648	132,205	137,150	142,130	147,142	152,188	157,268	162,381	167,528	172,708	177,922
<b>Available Beds(3)</b>											
<b>Evergreen Hospital</b>	227	227	227	227	227	227	227	227	227	227	227
<b>Group Health Eastside</b>	132	0	0	0	0	0	0	0	0	0	0
<b>Overlake Hospital</b>	303	303	303	303	303	303	303	303	303	303	303
<b>Snoqualmie Valley</b>	18	18	18	18	18	18	18	18	18	18	18
<b>Swedish Issaquah(4)</b>	0	0	0	0	0	0	80	80	80	120	120
<b>Total</b>	<b>680</b>	<b>548</b>	<b>548</b>	<b>548</b>	<b>548</b>	<b>548</b>	<b>628</b>	<b>628</b>	<b>628</b>	<b>668</b>	<b>668</b>
<b>Wtd Occ Std(5)</b>	70.73%	72.11%	72.11%	72.11%	72.11%	72.11%	70.57%	70.57%	70.57%	70.83%	70.83%
<b>Gross Bed Need</b>	<b>498.33</b>	<b>502.31</b>	<b>521.10</b>	<b>540.02</b>	<b>559.07</b>	<b>578.24</b>	<b>610.60</b>	<b>630.45</b>	<b>650.43</b>	<b>668.03</b>	<b>688.20</b>
<b>Net Bed Need/Surplus</b>	<b>-181.67</b>	<b>-45.69</b>	<b>-26.90</b>	<b>-7.98</b>	<b>11.07</b>	<b>30.24</b>	<b>-17.40</b>	<b>2.45</b>	<b>22.43</b>	<b>0.03</b>	<b>20.20</b>
<b>(1) Source: Claritas 2000, 2008, 2013 estimates</b>											
<b>(2) Adjusted to reflect referral patterns into and out of East King Planning Area to other planning areas and Oregon</b>											
<b>(3) Source: FSL and OHPDS Data</b>											
<b>(4) Source: Swedish Progress Reports, July 31, 2008 Letter</b>											
<b>(5) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,</b>											

East King Acute Care Bed Need - With Project  
Appendix 10b

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>East King Planning Area</b>											
Population 0-64(1)	459,827	465,022	468,066	471,110	474,154	477,198	480,242	483,286	486,330	489,374	492,418
0-64 Use Rate	168.44	171.18	173.91	176.65	179.38	182.12	184.86	187.59	190.33	193.06	195.80
Population 65+(1)	55,583	56,952	60,169	63,385	66,602	69,818	73,035	76,252	79,468	82,685	85,901
65+ Use Rate	963.80	966.54	969.27	972.01	974.74	977.48	980.21	982.95	985.68	988.42	991.15
<b>Total Population</b>	<b>515,410</b>	<b>521,974</b>	<b>528,235</b>	<b>534,495</b>	<b>540,756</b>	<b>547,016</b>	<b>553,277</b>	<b>559,538</b>	<b>565,798</b>	<b>572,059</b>	<b>578,319</b>
<b>Total East King Res Days</b>	<b>131,026</b>	<b>134,648</b>	<b>139,723</b>	<b>144,832</b>	<b>149,976</b>	<b>155,153</b>	<b>160,365</b>	<b>165,611</b>	<b>170,892</b>	<b>176,207</b>	<b>181,555</b>
<b>Total Days in East King Hospitals (2)</b>	<b>128,648</b>	<b>132,205</b>	<b>137,150</b>	<b>142,130</b>	<b>147,142</b>	<b>152,188</b>	<b>157,268</b>	<b>162,381</b>	<b>167,528</b>	<b>172,708</b>	<b>177,922</b>
<b>Available Beds(3)</b>											
Evergreen Hospital	227	227	275	275	275	275	307	307	307	307	307
Group Health Eastside	132	0	0	0	0	0	0	0	0	0	0
Overlake Hospital	303	303	303	303	303	303	303	303	303	303	303
Snoqualmie Valley	18	18	18	18	18	18	18	18	18	18	18
Swedish Issaquah(4)	0	0	0	0	0	0	80	80	80	120	120
<b>Total</b>	<b>680</b>	<b>548</b>	<b>596</b>	<b>596</b>	<b>596</b>	<b>596</b>	<b>708</b>	<b>708</b>	<b>708</b>	<b>748</b>	<b>748</b>
<b>Wtd Occ Std(5)</b>	<b>70.73%</b>	<b>72.11%</b>	<b>71.94%</b>	<b>71.94%</b>	<b>71.94%</b>	<b>71.94%</b>	<b>70.50%</b>	<b>70.50%</b>	<b>70.50%</b>	<b>70.74%</b>	<b>70.74%</b>
<b>Gross Bed Need</b>	<b>498.33</b>	<b>502.31</b>	<b>522.33</b>	<b>541.29</b>	<b>560.38</b>	<b>579.60</b>	<b>611.15</b>	<b>631.02</b>	<b>651.02</b>	<b>668.87</b>	<b>689.06</b>
<b>Net Bed Need/Surplus</b>	<b>-181.67</b>	<b>-45.69</b>	<b>-73.67</b>	<b>-54.71</b>	<b>-35.62</b>	<b>-16.40</b>	<b>-96.85</b>	<b>-76.98</b>	<b>-56.98</b>	<b>-79.13</b>	<b>-58.94</b>
(1) Source: Claritas 2000, 2008, 2013 estimates											
(2) Adjusted to reflect referral patterns into and out of East King Planning Area to other planning areas and Oregon											
(3) Source: FSL and OHPDS Data											
(4) Source: Swedish Progress Reports, July 31, 2008 Letter											
(5) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,											

Claritas Data - DOH Sorted

	2000		2008		2013	
	0-64	65+	0-64	65+	0-64	65+
98004	17,634	4,559	19,075	5,525	19,605	6,469
98005	14,960	2,253	15,476	2,564	15,558	3,010
98006	31,531	3,461	33,475	4,280	34,117	5,358
98007	20,795	2,651	21,842	2,802	22,218	3,232
98008	19,972	3,427	19,875	3,565	19,587	4,019
98011	24,981	2,249	26,765	2,700	27,229	3,589
98014	6,681	359	6,857	464	6,867	669
98019	8,009	343	10,232	602	11,249	973
98024	3,848	386	6,582	789	7,823	1,226
98027	21,752	2,090	26,164	3,121	28,072	4,279
98028	16,688	1,909	17,885	2,233	18,293	2,788
98029	12,874	1,422	15,903	1,983	17,366	2,615
98033	27,570	3,116	28,412	3,543	28,463	4,425
98034	36,560	3,230	36,470	3,968	35,967	5,102
98039	2,524	491	2,612	515	2,639	574
98040	17,922	4,114	19,423	4,681	20,029	5,356
98045	12,782	950	13,527	1,128	13,780	1,484
98052	45,232	4,391	48,842	5,210	50,082	6,714
98053	11,128	480	16,798	1,105	19,389	1,952
98065	4,255	318	10,226	750	13,024	1,347
98072	20,156	1,539	20,560	1,989	20,489	2,733
98074	19,750	782	19,121	1,080	18,537	1,620
98075	12,969	935	15,088	1,389	15,936	1,946
98077	12,889	545	13,812	966	13,923	1,555
	423,462	46,000	469,462	52,194	480,242	553,277

Claritas Total Pop Worksheet

1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
456,334	462,898	469,462	476,026	482,590	489,154	495,718	502,282	508,846	515,410	521,974	528,235	534,495	540,756	547,016	553,277	559,538	565,798	572,059	578,319

65+ Population Worksheet

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
46,000	47,369	48,738	50,107	51,476	52,845	54,214	55,583	56,952	60,169	63,385	66,602	69,818	73,035	76,252	79,468	82,685	85,901

0-64 Population Worksheet

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
423,462	428,657	433,852	439,047	444,242	449,437	454,632	459,827	465,022	468,066	471,110	474,154	477,198	480,242	483,286	486,330	489,374	492,418

Applicant 65+ Pop growth model

Reported 2007 53,735

2000	2001	2002	2003	2004	2005	2006	2007	2008
46,000	47,105	48,210	49,315	50,420	51,525	52,630	53,735	56,952
							2001-2006=	2007
							7,735	3,217
							71%	29%

Applicant Forecast Comparison

2008	2009	2010	2011	2012	2013	2014
56952	60169	63567	67158	70951	73036	77161
				2008-2012=	2013	2014
				73,036	4,125	77,161
				95%	5.35%	

