

East Pierce Acute Care Bed Need
Appendix 1

1997-2006 HSA TOTAL NUMBER OF PATIENT DAYS											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	1,216,945	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	13,432,905
East Pierce	42,561	42,801	42,376	43,707	43,454	50,227	50,431	49,029	49,232	53,065	466,883
STATEWIDE TOTAL	1,895,198	1,891,585	1,954,098	2,034,921	2,120,316	2,121,795	2,143,447	2,158,760	2,227,692	2,277,848	20,825,660

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Appendix 2

1997-2006 HSA TOTAL NUMBER OF PATIENT DAYS											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	1,216,945	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	13,432,905
East Pierce	42,561	42,801	42,376	43,707	43,454	50,227	50,431	49,029	49,232	53,065	466,883
STATEWIDE TOTAL	1,895,198	1,891,585	1,954,098	2,034,921	2,120,316	2,121,795	2,143,447	2,158,760	2,227,692	2,277,848	20,825,660
1997-2006 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	81	568	485	412	578	553	810	615	635	661	5,398
East Pierce	0	0	0	0	0	0	0	0	0	0	0
STATEWIDE TOTAL	107	688	543	456	610	589	985	719	711	747	6,155
HSA #1 Hospitals include: BHC Fairfax in Kirkland, West Seattle Psych Hospital in Seattle, and Puget Sound Behavioral Health in Tacoma											
1997-2006 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	1,216,864	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	13,427,507
East Pierce	42,561	42,801	42,376	43,707	43,454	50,227	50,431	49,029	49,232	53,065	466,883
STATEWIDE TOTAL	1,895,091	1,890,897	1,953,555	2,034,465	2,119,706	2,121,206	2,142,462	2,158,041	2,226,981	2,277,101	20,819,505

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Appendix 3

1997-2005 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	1,216,864	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	13,427,507
East Pierce	42,561	42,801	42,376	43,707	43,454	50,227	50,431	49,029	49,232	53,065	466,883
STATEWIDE TOTAL	1,895,091	1,890,897	1,953,555	2,034,465	2,119,706	2,121,206	2,142,462	2,158,041	2,226,981	2,277,101	13,894,390

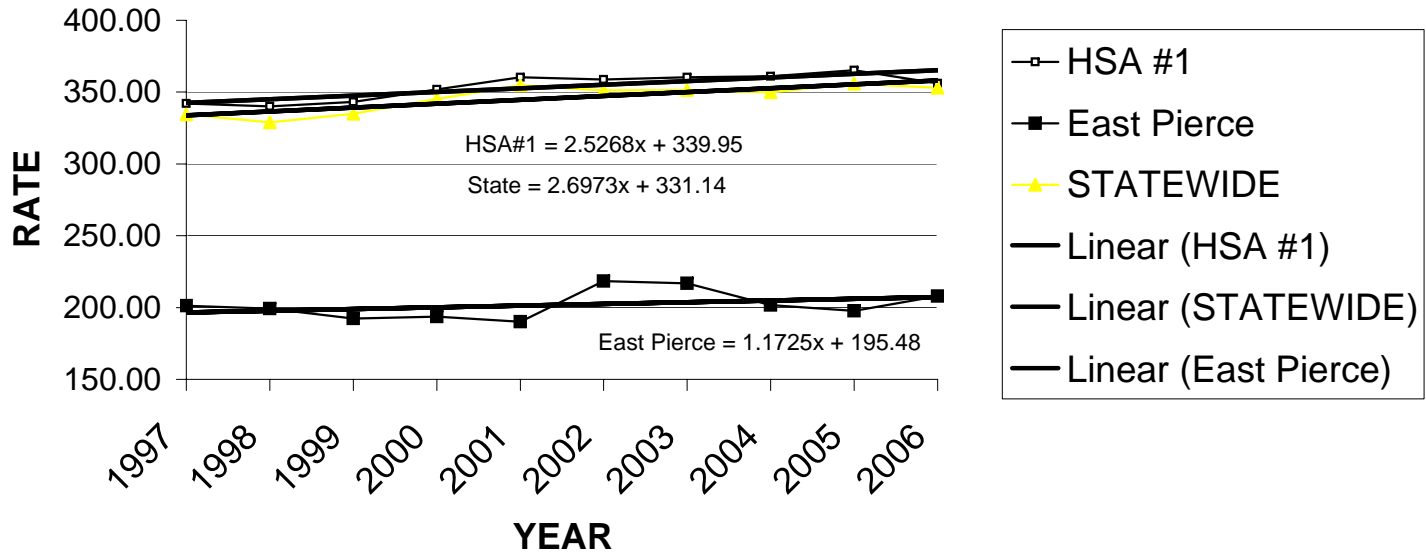
TOTAL POPULATIONS BY HSA											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	3,558,002	3,620,228	3,673,734	3,721,775	3,776,110	3,818,510	3,849,500	3,885,500	3,938,000	4,077,900	37,919,259
East Pierce	211,377	214,831	220,328	225,673	228,536	230,066	232,529	243,125	248,939	255,199	2,310,603
STATEWIDE TOTAL	5,663,763	5,750,033	5,830,835	5,894,143	5,974,910	6,041,710	6,098,300	6,167,800	6,256,400	6,449,300	60,127,194
	0.252724	0.253508	0.254402	0.256105	0.257781	0.257764	0.257255	0.25689	0.259		

USE RATE PER 1,000 BY HSA											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL
HSA #1	342.01	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	356.06	3,538
East Pierce	201.35	199.23	192.33	193.67	190.14	218.32	216.88	201.66	197.77	207.94	2,019
STATEWIDE	334.60	328.85	335.04	345.17	354.77	351.09	351.32	349.89	355.95	353.08	3,460

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Appendix 4

USE RATE PER 1,000 BY HSA												
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	10-YEAR TOTAL	Trendline
HSA #1	342.01	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	356.06	3,538.46	2.5268
East Pierce	201.35	199.23	192.33	193.67	190.14	218.32	216.88	201.66	197.77	207.94	2,019.29	1.1725
STATEWIDE	334.60	328.85	335.04	345.17	354.77	351.09	351.32	349.89	355.95	353.08	3,459.76	2.6973

USE RATES FOR HSA #1 AND EAST PIERCE PLANNING AREA



East Pierce Acute Care Bed Need
 Appendices 5 & 6

STEP #5						
2006 DATA						
	# of Pat days	Less OOS	TOTAL LESS OOS			
East Pierce Hospitals				%		
0-64	29,789	282	29,507	0.95%		
65+	23,276	172	23,104	0.74%		
TOTAL	53,065	454	52,611			
WA - EP						
0-64	1,366,698	72,553	1,294,145	5.31%		
65+	910,403	37,308	873,095	4.10%		
TOTAL	2,277,101	109,861	2,167,240			
	TO East Pierce	TO WA			TOTAL # OF DAYS FOR RESIDENTS BY HSA	TOTAL # OF DAYS FOR RESIDENTS BY HSA
FROM East Pierce					(LESS PATS FROM OOS)	OREGON
0-64	20,619	41,895			62,514	90
65+	18,698	6,958			25,656	14
TOTAL	39,317	48,853			88,170	104
FROM WA						
0-64	8,888	1,252,250			1,261,138	46,075
65+	4,406	866,137			870,543	19,320
TOTAL	13,294	2,118,387			2,131,681	65,395
	52,611	2,167,240				
MARKET SHARE						
PERCENTAGE OF PATIENT DAYS						
	TO East Pierce	TO WA - EP	TO OREGON			
% OF East Pierce RESIDENTS						
0-64	32.94%	66.92%	0.14%			
65+	72.84%	27.11%	0.05%			
TOTAL						
% OF WA - EP RESIDENTS						
0-64	0.68%	95.80%	3.52%			
65+	0.50%	97.33%	2.17%			
TOTAL						
2006 POPULATIONS BY PLANNING AREA						
	East Pierce	WA - EP				
0-64	228,633	5,549,295				
65+	26,566	644,806				
TOTAL	255,199	6,194,101				
STEP #6						
USE RATE BY PLANNING AREA						
	East Pierce	WA - EP				
USE RATES						
0-64	273.82	235.56				
65+	966.26	1,380.05				

East Pierce Acute Care Bed Need
Appendix 7A

USE RATE BY PLANNING AREA FROM STEP 6							
	East Pierce						
YEAR 2006 USE RATES							
0-64	273.82						
65+	966.26						
PROJECTED POPULATION	Using Revised East Pierce Projections						
YEAR 2013 **	East Pierce						
0-64	264,485						
65+	34,465						
TOTALS	298,950						
PROJECTED 2013 USE RATE							
	East Pierce						
USE RATES*							
0-64 using Area Trend	282.03						
0-64 using Statewide Trend	292.70						
65+ using Area Trend	974.47						
65+ using Statewide Trend	985.15						
*Projected by applying either planning area trend or Statewide trend, whichever trend would result in the smaller adjustment							
Bold Print indicates use rate closest to current value							
** Uses Applicant population projections							

East Pierce Acute Care Bed Need
Appendix 8

USE RATE BY HSA FROM STEP 7A	
	East Pierce
USE RATES	
0-64	282.03
65+	974.47
PROJECTED POPULATION	
YEAR 2013 **	East Pierce
0-64	264,485
65+	34,465
TOTALS	298,950
PROJECTED # OF PATIENT DAYS	
YEAR 2013	East Pierce
0-64	74,592
65+	33,585
TOTALS	108,177
** Uses Applicant population projections	

East Pierce Acute Care Bed Need
Appendix 9

PROJECTED # OF PATIENT DAYS				
YEAR 2013	East Pierce	WA - EP	TOTAL	
0-64	74,592	1,617,704	1,692,296	
65+	33,585	859,616	893,201	
TOTALS	108,177	2,477,320	2,585,497	
MARKET SHARE % OF PATIENT DAYS FROM STEP 1				
% OF East Pierce RESIDENTS	East Pierce	WA - EP	TO OREGON	
0-64	32.94%	66.92%	0.14%	
65+	72.84%	27.11%	0.05%	
% OF WA - EP RESIDENTS	East Pierce	WA - EP	TO OREGON	
0-64	0.68%	95.80%	3.52%	
65+	0.50%	97.33%	2.17%	
# OF East Pierce RESIDENTS	East Pierce	WA - EP	TO OREGON	Total
0-64	24,567	49,917	107	74,592
65+	24,463	9,103	18	33,585
				108,177
# OF WA - EP RESIDENTS	East Pierce	WA - EP	TO OREGON	Total
0-64	10,999	1,549,686	57,019	1,617,704
65+	4,256	836,697	18,663	859,616
				2,477,320
# OF RESIDENT PAT DAYS PROJECTED IN East Pierce				
0-64	35,566			
65+	28,720			
# OF RESIDENT PAT DAYS PROJECTED IN WA - EP				
0-64	1,599,604			
65+	845,800			
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON				
0-64	57,126			
65+	18,682			
OUT OF STATE % OF PATIENT DAYS FROM STEP 1				
East Pierce	%			
0-64	0.96%			
65+	0.74%			
WA - EP				
0-64	5.61%			
65+	4.27%			
PROJECTED # OF PATIENT DAYS 2007 PLUS OUT OF STATE RESIDENTS				
East Pierce				
0-64	35,906	0.48137		
65+	28,933	0.861495		
TOTAL	64,840			

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

	2006	2007	2008	2009	2010	2011	2012	2013	2014
East Pierce Planning Area									
Population 0-64(1)	228,633	243,360	258,088	272,815	287,543	302,271	316,998	331,726	346,453
0-64 Use Rate	273.82	274.99	276.16	277.34	278.51	279.68	280.85	282.03	283.20
Population 65+(1)	26,566	27,477	28,388	29,298	30,209	31,120	32,030	32,941	33,852
65+ Use Rate	966.26	967.44	968.61	969.78	970.95	972.13	973.30	974.47	975.64
Total Population	255,199	270,837	286,476	302,114	317,752	333,390	349,029	364,667	380,305
Total East Pierce Res Days	88,274	93,504	98,771	104,075	109,415	114,792	120,205	125,656	131,143
Total Days in East Pierce Hospitals (2)	52,250	55,115	57,998	60,899	63,819	66,757	69,714	72,689	75,683
Available Beds(3)									
Good Samaritan	225	225	225	225	225	225	225	225	225
Total	225	225	225	225	225	225	225	225	225
Wtd Occ Std(4)	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%
Gross Bed Need	204.50	215.71	227.00	238.35	249.78	261.28	272.85	284.50	296.21
Net Bed Need/Surplus	-20.50	-9.29	2.00	13.35	24.78	36.28	47.85	59.50	71.21
(1) Source: Applicant									
(2) Adjusted to reflect referral patterns into and out of East Pierce Planning Area to other planning areas and Oregon									
(3) Source: FSL and OHPDS Data									
(4) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area, of each hospital's occupancy rate times that hospital's percentage of total beds in the area									

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

	2006	2007	2008	2009	2010	2011	2012	2013	2014
East Pierce Planning Area									
Population 0-64(1)	228,633	243,360	258,088	272,815	287,543	302,271	316,998	331,726	346,453
0-64 Use Rate	273.82	274.99	276.16	277.34	278.51	279.68	280.85	282.03	283.20
Population 65+(1)	26,566	27,477	28,388	29,298	30,209	31,120	32,030	32,941	33,852
65+ Use Rate	966.26	967.44	968.61	969.78	970.95	972.13	973.30	974.47	975.64
Total Population	255,199	270,837	286,476	302,114	317,752	333,390	349,029	364,667	380,305
Total East Pierce Res Days	88,274	93,504	98,771	104,075	109,415	114,792	120,205	125,656	131,143
Total Days in East Pierce Hospitals (2)	52,250	55,115	57,998	60,899	63,819	66,757	69,714	72,689	75,683
Available Beds(3)									
Good Samaritan	225	225	225	225	243	243	243	275	275
Total	225	225	225	225	243	243	243	275	275
Wtd Occ Std(4)	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%	70.00%
Gross Bed Need	204.50	215.71	227.00	238.35	249.78	261.28	272.85	284.50	296.21
Net Bed Need/Surplus	-20.50	-9.29	2.00	13.35	6.78	18.28	29.85	9.50	21.21
(1) Source: Applicant									
(2) Adjusted to reflect referral patterns into and out of East Pierce Planning Area to other planning areas and Oregon									
(3) Source: FSL and OHPDS Data									
(4) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area, of each hospital's occupancy rate times that hospital's percentage of total beds in the area									