

Central Snohomish Acute Care Bed Need
Appendix 1

1996-2005 HSA TOTAL NUMBER OF PATIENT DAYS											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	1,185,296	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	13,165,555
Central Snohomish	61,673	63,687	64,557	66,106	70,604	75,165	78,488	83,896	90,056	92,757	746,989
STATEWIDE TOTAL	1,851,706	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	20,399,518

Central Snohomish Acute Care Bed Need
Appendix 2

1996-2005 HSA TOTAL NUMBER OF PATIENT DAYS											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	1,185,296	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	13,165,555
Central Snohomish	61,673	63,687	64,557	66,106	70,604	75,165	78,488	83,896	90,056	92,757	746,989
STATEWIDE TOTAL	1,851,706	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	20,399,518
1996-2005 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	91	81	568	485	412	578	553	810	615	635	4,828
Central Snohomish	0	0	0	0	0	0	0	0	0	0	0
STATEWIDE TOTAL	132	107	688	543	456	610	589	985	719	711	5,540
HSA #1 Hospitals include: BHC Fairfax in Kirkland, West Seattle Psych Hospital in Seattle, and Puget Sound Behavioral Health in Tacoma											
1996-2005 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	1,185,205	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	13,160,727
Central Snohomish	61,673	63,687	64,557	66,106	70,604	75,165	78,488	83,896	90,056	92,757	746,989
STATEWIDE TOTAL	1,851,574	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	20,393,978

Central Snohomish Acute Care Bed Need
Appendix 3

1996-2005 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	1,185,205	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	13,160,727
Central Snohomish	61,673	63,687	64,557	66,106	70,604	75,165	78,488	83,896	90,056	92,757	746,989
STATEWIDE TOTAL	1,851,574	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	13,907,716

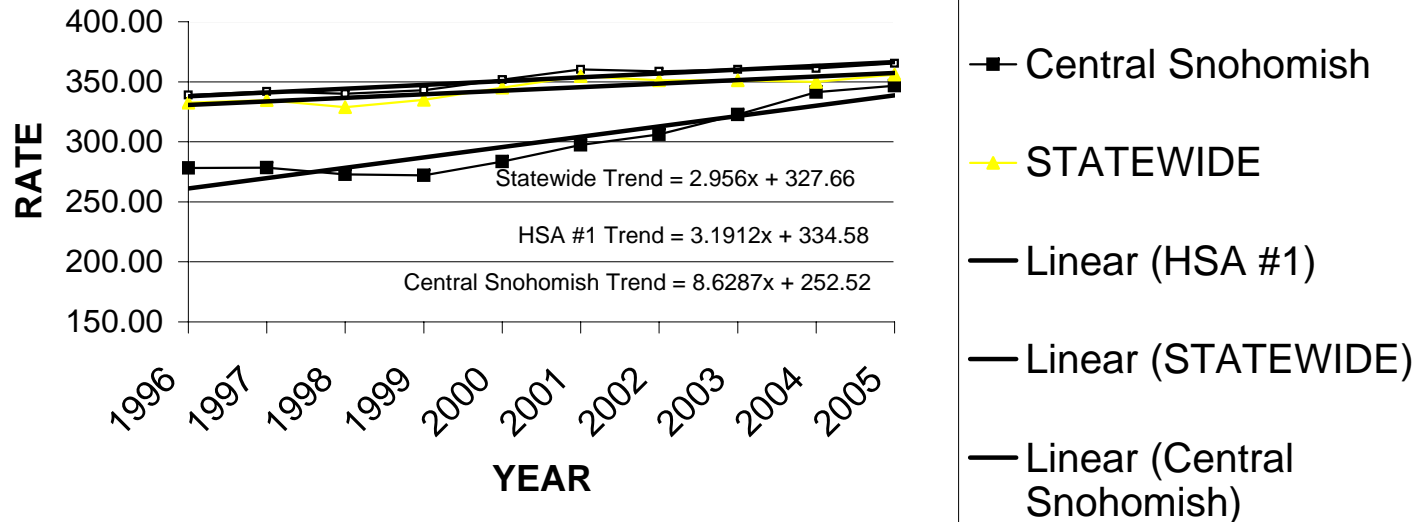
TOTAL POPULATIONS BY HSA											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	3,496,634	3,558,002	3,620,228	3,673,734	3,721,775	3,776,110	3,818,510	3,849,500	3,885,500	3,938,000	37,337,993
Central Snohomish	221,605	228,767	236,631	242,966	249,073	252,654	256,287	259,972	263,712	267,506	2,479,173
STATEWIDE TOTAL	5,567,764	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	59,245,658
	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											
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	338.96	342.01	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	3,521
Central Snohomish	278.30	278.39	272.82	272.08	283.47	297.50	306.25	322.71	341.49	346.75	3,000
STATEWIDE	332.55	334.60	328.85	335.04	345.17	354.77	351.09	351.32	349.89	355.95	3,439

Central Snohomish Acute Care Bed Need
Appendix 4

USE RATE PER 1,000 BY HSA											
HSA #1	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	10-YEAR TOTAL
HSA #1	338.96	342.01	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	3,521.35
Central Snohomish	278.30	278.39	272.82	272.08	283.47	297.50	306.25	322.71	341.49	346.75	2,999.76
STATEWIDE	332.55	334.60	328.85	335.04	345.17	354.77	351.09	351.32	349.89	355.95	3,439.23

USE RATES FOR HSA #1 AND CENTRAL SNOHOMISH PLANNING AREA



Central Snohomish Acute Care Bed Need
 Appendices 5 & 6

STEP #5						
2005 DATA						
	# of Pat days	Less OOS	TOTAL LESS OOS			
Central Snohomish Hospitals					%	
0-64	55,649	356	55,293		0.64%	
65+	37,108	427	36,681		1.15%	
TOTAL	92,757	783	91,974			
WA - SC						
0-64	1,266,288	69,609	1,196,679		5.50%	
65+	867,936	37,867	830,069		4.36%	
TOTAL	2,134,224	107,476	2,026,748			
	TO Central Snohomish	TO WA - CS		TOTAL # OF DAYS FOR RESIDENTS BY HSA	ADD DAYS PROVIDED IN OREGON	TOTAL # OF DAYS FOR RESIDENTS BY HSA
FROM Central Snohomish				(LESS PATS FROM OOS)		
0-64	33,901	26,701		60,602	81	60,683
65+	23,136	6,922		30,058	36	30,094
TOTAL	57,037	33,623		90,660	117	90,777
FROM WA - CS						
0-64	21,392	1,169,978		1,191,370	46,227	1,237,597
65+	13,545	823,147		836,692	18,945	855,637
TOTAL	34,937	1,993,125		2,028,062	65,172	2,093,234
	91,974	2,026,748				
MARKET SHARE						
PERCENTAGE OF PATIENT DAYS						
	TO Central Snohomish	TO WA - CS		TO OREGON		
% OF Central Snohomish RESIDENTS						
0-64	55.87%	44.00%		0.13%		
65+	76.88%	23.00%		0.12%		
TOTAL						
% OF WA - CS RESIDENTS						
0-64	1.73%	94.54%		3.74%		
65+	1.58%	96.20%		2.21%		
TOTAL						
2005 POPULATIONS BY PLANNING AREA						
	Central Snohomish	WA - CS				
0-64	243,676	5,297,209				
65+	23,830	691,685				
TOTAL	267,506	5,988,894				
STEP #6						
USE RATE BY PLANNING AREA						
	Central Snohomish	WA - CS				
USE RATES						
0-64	249.03	233.63				
65+	1,262.86	1,237.03				

Central Snohomish Acute Care Bed Need
Appendix 7A

USE RATE BY PLANNING AREA FROM STEP 6							
	Central Snohomish						
YEAR 2005 USE RATES							
0-64	249.03						
65+	1,262.86						
PROJECTED POPULATION	Using Revised Central Snohomish Projections						
YEAR 2010	Central Snohomish						
0-64	260,912						
65+	28,401						
TOTALS	289,313						
PROJECTED 2010 USE RATE							
	Central Snohomish						
USE RATES*							
0-64 using Area Trend	292.18						
0-64 using Statewide Trend	263.81						
65+ using Area Trend	1,306.01						
65+ using Statewide Trend	1,277.64						
*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							

Central Snohomish Acute Care Bed Need
Appendix 8

USE RATE BY HSA FROM STEP 7A		
	Central Snohomish	
USE RATES		
0-64	263.81	
65+	1,277.64	
PROJECTED POPULATION		
YEAR 2010		Central Snohomish
0-64	260,912	
65+	28,401	
TOTALS	289,313	
PROJECTED # OF PATIENT DAYS		
YEAR 2010		Central Snohomish
0-64	68,832	
65+	36,286	
TOTALS	105,118	

Central Snohomish Acute Care Bed Need
Appendix 9

PROJECTED # OF PATIENT DAYS				
YEAR 2010	Central Snohom	WA - CS	TOTAL	
0-64	68,832	1,383,422	1,452,254	
65+	36,286	970,265	1,006,551	
TOTALS	105,118	2,353,687	2,458,805	
MARKET SHARE % OF PATIENT DAYS FROM STEP 1				
% OF Central Snohomish RESIDENTS	Central Snohom	WA - CS	TO OREGON	
0-64	55.87%	44.00%	0.13%	
65+	76.88%	23.00%	0.12%	
% OF WA - SC RESIDENTS	Central Snohom	WA - CS	TO OREGON	
0-64	1.73%	94.54%	3.74%	
65+	1.58%	96.20%	2.21%	
# OF Central Snohomish RESIDENTS	Central Snohom	WA - CS	TO OREGON	Total
0-64	38,453	30,286	92	68,832
65+	27,897	8,346	43	36,286
				105,118
# OF WA - SC RESIDENTS	Central Snohom	WA - CS	TO OREGON	Total
0-64	23,913	1,307,836	51,674	1,383,422
65+	15,360	933,422	21,483	970,265
				2,353,687
# OF RESIDENT PAT DAYS PROJECTED IN Central Snohomish				
0-64	62,366			
65+	43,256			
# OF RESIDENT PAT DAYS PROJECTED IN WA - CS				
0-64	1,338,122			
65+	941,768			
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON				
0-64	51,766			
65+	21,526			
OUT OF STATE % OF PATIENT DAYS FROM STEP 1				
Central Snohomish	%			
0-64	0.64%			
65+	1.16%			
WA - CS				
0-64	5.82%			
65+	4.56%			
PROJECTED # OF PATIENT DAYS 2007 PLUS OUT OF STATE RESIDENTS				
Central Snohomish				
0-64	62,767	0.911898		
65+	43,760	1.205957		
TOTAL	106,527			

Central Snohomish Acute Care Bed Need - No Change
Appendix 10a

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Central Snohomish Planning Area													
Population 0-64(1)	243,676	247,193	250,096	253,034	256,943	260,912	264,081	267,289	270,535	273,820	277,146	280,060	283,004
0-64 Use Rate	249.03	251.99	254.94	257.90	260.86	263.81	266.77	269.72	272.68	275.64	278.59	281.55	284.50
Population 65+(1)	23,830	24,332	25,284	26,273	27,316	28,401	29,954	31,591	33,318	35,140	37,061	39,089	41,228
65+ Use Rate	1,262.86	1265.82	1268.77	1271.73	1274.69	1277.64	1280.60	1283.55	1286.51	1289.47	1292.42	1295.38	1298.33
Total Population	267,506	271,525	275,380	279,307	284,259	289,313	294,035	298,880	303,853	308,960	314,207	319,149	324,232
Total Central Snohomish Res Days	90,777	93,089	95,840	98,670	101,844	105,118	108,807	112,643	116,633	120,786	125,109	129,485	134,043
Total Days in Central Snohomish Hospitals (2)	91,629	93,945	96,830	99,802	103,111	106,527	110,501	114,643	118,962	123,469	128,172	132,967	137,974
Available Beds(3)													
Providence Everett	362	362	362	362	362	362	362	362	362	362	362	362	362
Total	362	362	362	362	362	362	362	362	362	362	362	362	362
Wtd Occ Std(4)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
Gross Bed Need	334.72	343.18	353.72	364.57	376.66	389.14	403.66	418.79	434.57	451.03	468.21	485.72	504.02
Net Bed Need/Surplus	-27.28	-18.82	-8.28	2.57	14.66	27.14	41.66	56.79	72.57	89.03	106.21	123.72	142.02
(1) Source: Applicant													
(2) Adjusted to reflect referral patterns into and out of Central Snohomish 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													

Central Snohomish Acute Care Bed Need - Complete Project
Appendix 10b

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Central Snohomish Planning Area													
Population 0-64(1)	243,676	247,193	250,096	253,034	256,943	260,912	264,081	267,289	270,535	273,820	277,146	280,060	283,004
0-64 Use Rate	249.03	251.99	254.94	257.90	260.86	263.81	266.77	269.72	272.68	275.64	278.59	281.55	284.50
Population 65+(1)	23,830	24,332	25,284	26,273	27,316	28,401	29,954	31,591	33,318	35,140	37,061	39,089	41,228
65+ Use Rate	1,262.86	1265.82	1268.77	1271.73	1274.69	1277.64	1280.60	1283.55	1286.51	1289.47	1292.42	1295.38	1298.33
Total Population	267,506	271,525	275,380	279,307	284,259	289,313	294,035	298,880	303,853	308,960	314,207	319,149	324,232
Total Central Snohomish Res Days	90,777	93,089	95,840	98,670	101,844	105,118	108,807	112,643	116,633	120,786	125,109	129,485	134,043
Total Days in Central Snohomish Hospitals (2)	91,629	93,945	96,830	99,802	103,111	106,527	110,501	114,643	118,962	123,469	128,172	132,967	137,974
Available Beds(3)													
Providence Everett	362	362	362	362	362	468	468	468	468	468	498	498	528
Total	362	362	362	362	362	468	468	468	468	468	498	498	528
Wtd Occ Std(4)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
Gross Bed Need	334.72	343.18	353.72	364.57	376.66	389.14	403.66	418.79	434.57	451.03	468.21	485.72	504.02
Net Bed Need/Surplus	-27.28	-18.82	-8.28	2.57	14.66	-78.86	-64.34	-49.21	-33.43	-16.97	-29.79	-12.28	-23.98
(1) Source: Applicant													
(2) Adjusted to reflect referral patterns into and out of Central Snohomish 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													

Central Snohomish Acute Care Bed Need - Phase 1 Only
Appendix 10c

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Central Snohomish Planning Area													
Population 0-64(1)	243,676	247,193	250,096	253,034	256,943	260,912	264,081	267,289	270,535	273,820	277,146	280,060	283,004
0-64 Use Rate	249.03	251.99	254.94	257.90	260.86	263.81	266.77	269.72	272.68	275.64	278.59	281.55	284.50
Population 65+(1)	23,830	24,332	25,284	26,273	27,316	28,401	29,954	31,591	33,318	35,140	37,061	39,089	41,228
65+ Use Rate	1,262.86	1265.82	1268.77	1271.73	1274.69	1277.64	1280.60	1283.55	1286.51	1289.47	1292.42	1295.38	1298.33
Total Population	267,506	271,525	275,380	279,307	284,259	289,313	294,035	298,880	303,853	308,960	314,207	319,149	324,232
Total Central Snohomish Res Days	90,777	93,089	95,840	98,670	101,844	105,118	108,807	112,643	116,633	120,786	125,109	129,485	134,043
Total Days in Central Snohomish Hospitals (2)	91,629	93,945	96,830	99,802	103,111	106,527	110,501	114,643	118,962	123,469	128,172	132,967	137,974
Available Beds(3)													
Providence Everett	362	362	362	362	362	468	468	468	468	468	468	468	468
Total	362	362	362	362	362	468	468	468	468	468	468	468	468
Wtd Occ Std(4)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
Gross Bed Need	334.72	343.18	353.72	364.57	376.66	389.14	403.66	418.79	434.57	451.03	468.21	485.72	504.02
Net Bed Need/Surplus	-27.28	-18.82	-8.28	2.57	14.66	-78.86	-64.34	-49.21	-33.43	-16.97	0.21	17.72	36.02
(1) Source: Applicant													
(2) Adjusted to reflect referral patterns into and out of Central Snohomish 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													

Central Snohomish Acute Care Bed Need - Phases 1 and 2
Appendix 10d

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Central Snohomish Planning Area													
Population 0-64(1)	243,676	247,193	250,096	253,034	256,943	260,912	264,081	267,289	270,535	273,820	277,146	280,060	283,004
0-64 Use Rate	249.03	251.99	254.94	257.90	260.86	263.81	266.77	269.72	272.68	275.64	278.59	281.55	284.50
Population 65+(1)	23,830	24,332	25,284	26,273	27,316	28,401	29,954	31,591	33,318	35,140	37,061	39,089	41,228
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Total Population	267,506	271,525	275,380	279,307	284,259	289,313	294,035	298,880	303,853	308,960	314,207	319,149	324,232
Total Central Snohomish Res Days	90,777	93,089	95,840	98,670	101,844	105,118	108,807	112,643	116,633	120,786	125,109	129,485	134,043
Total Days in Central Snohomish Hospitals (2)	91,629	93,945	96,830	99,802	103,111	106,527	110,501	114,643	118,962	123,469	128,172	132,967	137,974
Available Beds(3)													
Providence Everett	362	362	362	362	362	468	468	468	468	468	498	498	498
Total	362	362	362	362	362	468	468	468	468	468	498	498	498
Wtd Occ Std(4)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%
Gross Bed Need	334.72	343.18	353.72	364.57	376.66	389.14	403.66	418.79	434.57	451.03	468.21	485.72	504.02
Net Bed Need/Surplus	-27.28	-18.82	-8.28	2.57	14.66	-78.86	-64.34	-49.21	-33.43	-16.97	-29.79	-12.28	6.02
(1) Source: Applicant													
(2) Adjusted to reflect referral patterns into and out of Central Snohomish 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													