

Thurston Acute Care Bed Need
Appendix 1

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	205,169	214,999	226,028	237,077	238,327	239,577	241,771	250,305	279,482	286,485	2,419,220
Thurston	61,021	63,077	65,161	68,575	68,344	71,258	72,493	75,132	79,187	83,061	707,309
STATEWIDE TOTAL	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	2,344,010	21,274,472
HospVolume19972001woMDC197DRG3911 MOD.xls											
2003CONStudy (2).xls											
2004pat days with HSA data.xls											
2005PatientDaybyAgewoMDC19DRG391.xls											
2006 CN CHARS ExtractwoMDC19DRG391.xls											
2007 CN CHARS ExtractwoMDC19DRG391.xls											

Thurston Acute Care Bed Need
Appendix 2

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	205,169	214,999	226,028	237,077	238,327	239,577	241,771	250,305	279,482	286,485	2,419,220
Thurston	61,021	63,077	65,161	68,575	68,344	71,258	72,493	75,132	79,187	83,061	707,309
STATEWIDE TOTAL	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	2,344,010	21,274,472
1998-2007 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	0	0	0	0	0	0	0	0	0	0	0
Thurston	0	0	0	0	0	0	0	0	0	0	0
STATEWIDE TOTAL	688	543	456	610	510	985	719	711	747	966	6,935
1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	205,169	214,999	226,028	237,077	238,327	239,577	241,771	250,305	279,482	286,485	2,419,220
Thurston	61,021	63,077	65,161	68,575	68,344	71,258	72,493	75,132	79,187	83,061	707,309
STATEWIDE TOTAL	1,890,897	1,953,555	2,034,465	2,119,706	2,121,285	2,142,462	2,158,041	2,226,981	2,277,101	2,343,044	21,267,537

Thurston Acute Care Bed Need
Appendix 3

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	205,169	214,999	226,028	237,077	238,327	239,577	241,771	250,305	279,482	286,485	2,419,220
Thurston	61,021	63,077	65,161	68,575	68,344	71,258	72,493	75,132	79,187	83,061	707,309
STATEWIDE TOTAL	1,890,897	1,953,555	2,034,465	2,119,706	2,121,285	2,142,462	2,158,041	2,226,981	2,277,101	2,343,044	21,267,537

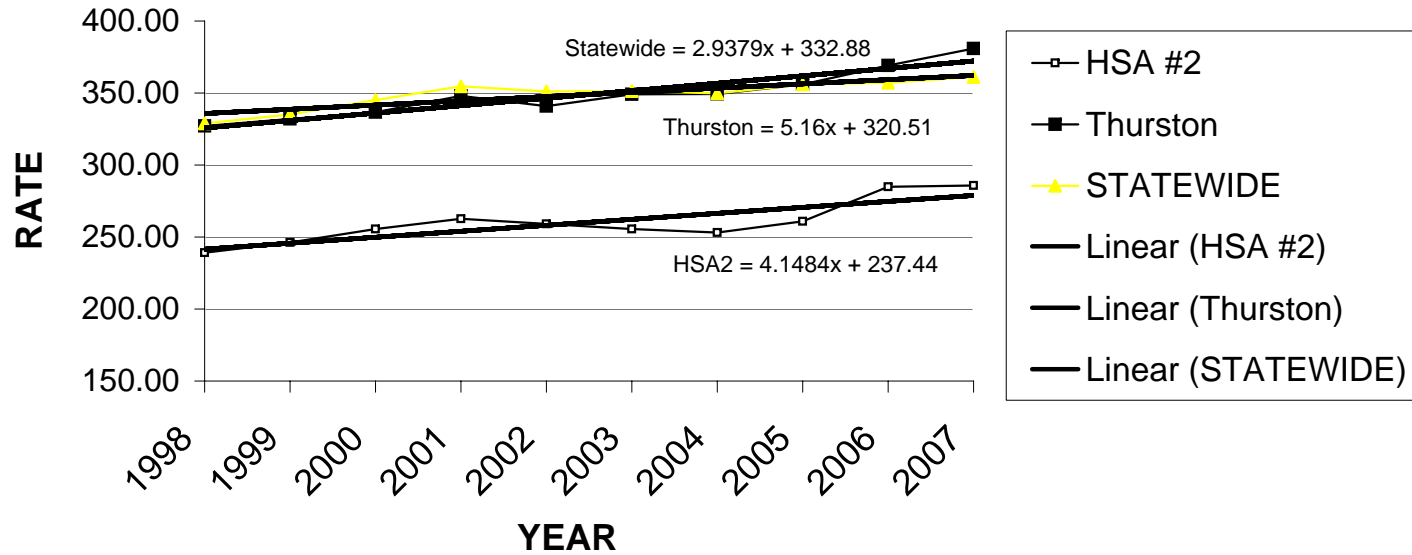
TOTAL POPULATIONS BY HSA											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	858,079	873,518	884,581	902,274	919,968	937,662	955,355	959,800	981,194	1,002,587	9,275,018
Thurston	186,516	190,023	193,531	197,039	200,547	204,054	207,562	211,070	214,578	218,085	2,023,004
STATEWIDE TOTAL	5,750,033	5,830,835	5,894,143	5,974,910	6,041,710	6,098,300	6,167,800	6,256,400	6,376,000	6,488,000	60,878,131
	0.25272413	0.25350756	0.25440152	0.25610518	0.25778079	0.25776432	0.25725521	0.25688979	0.25899973		

USE RATE PER 1,000 BY HSA											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #2	239.10	246.13	255.52	262.75	259.06	255.50	253.07	260.79	284.84	285.75	2,603
Thurston	327.16	331.94	336.70	348.03	340.79	349.21	349.26	355.96	369.04	380.86	3,489
STATEWIDE	328.85	335.04	345.17	354.77	351.11	351.32	349.89	355.95	357.14	361.14	3,490

Thurston Acute Care Bed Need
Appendix 4

USE RATE PER 1,000 BY HSA												
HSA #2	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL	Trendline
HSA #2	239.10	246.13	255.52	262.75	259.06	255.50	253.07	260.79	284.84	285.75	2,602.51	4.1484
Thurston	327.16	331.94	336.70	348.03	340.79	349.21	349.26	355.96	369.04	380.86	3,488.95	5.1600
STATEWIDE	328.85	335.04	345.17	354.77	351.11	351.32	349.89	355.95	357.14	361.14	3,490.36	2.9333

**USE RATES FOR HSA #2
AND THURSTON COUNTY PLANNING AREA**



Thurston Acute Care Bed Need
 Appendices 5 & 6

STEP #5									
2007 DATA									
	# of Pat days	Less OOS	TOTAL LESS OOS						
Thurston Hospitals									
0-64	43,079	208	42,871	0.48%					
65+	39,982	417	39,565	1.04%					
TOTAL	83,061	625	82,436						
WA - TC									
0-64	1,364,614	73,305	1,291,309	5.37%					
65+	895,369	39,384	855,985	4.40%					
TOTAL	2,259,983	112,689	2,147,294						
	TO Thurston	TO WA			TOTAL # OF DAYS FOR RESIDENTS BY HSA (LESS PATS FROM OOS)	ADD DAYS PROVIDED IN OREGON **	TOTAL # OF DAYS FOR RESIDENTS BY HSA		
Residents FROM Thurston									
0-64	27,439	17,550			44,989	193	45,182		
65+	26,131	5,440			31,571	114	31,685		
TOTAL	53,570	22,990			76,560	307	76,867		
FROM WA									
0-64	15,432	1,273,759			1,289,191	43,264	1,332,455		
65+	13,434	850,545			863,979	18,230	882,209		
TOTAL	28,866	2,124,304			2,153,170	61,494	2,214,664		
	82,436	2,147,294							** Patient Days as reported by 2006 HCUP data for Oregon CHARS
MARKET SHARE									
PERCENTAGE OF PATIENT DAYS									
	TO Thurston	TO WA	TO OREGON						
% OF Thurston RESIDENTS									
0-64	60.73%	38.84%	0.43%						
65+	82.47%	17.17%	0.36%						
TOTAL									
% OF WA - TC RESIDENTS									
0-64	1.16%	95.59%	3.25%						
65+	1.52%	96.41%	2.07%						
TOTAL									
2007 POPULATIONS BY PLANNING AREA									
	Thurston	TO WA							
0-64	194,640	5,538,216			8 yr OFM 65+ Pop. Factor				
65+	23,445	731,699			0.1167				
TOTAL	218,085	6,269,915							
STEP #6									
USE RATE BY PLANNING AREA									
	Thurston	TO WA							
USE RATES									
0-64	232.13	240.59							
65+	1,351.46	1,205.70							

Thurston Acute Care Bed Need
Appendix 7A

USE RATE BY PLANNING AREA FROM STEP 6							
	Thurston						
YEAR 2007 USE RATES							
0-64	232.13						
65+	1,351.46						
PROJECTED POPULATION	YEAR 2014						
	Thurston						
0-64	211,970						
65+	31,439						
TOTALS	243,409						
PROJECTED 2014 USE RATE							
	Thurston						
USE RATES*							
0-64 using Area Trend	268.25						
0-64 using Statewide Trend	252.66						
65+ using Area Trend	1,387.58						
65+ using Statewide Trend	1,371.99						
*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							

Thurston Acute Care Bed Need
Appendix 8

USE RATE BY HSA FROM STEP 7A	
PROJECTED USE RATE - 2014	Thurston
USE RATES	
0-64	252.66
65+	1,371.99
PROJECTED POPULATION - 2014	
	Thurston
0-64	211,970
65+	31,439
TOTALS	243,409
PROJECTED # OF PATIENT DAYS	YEAR 2014
	Thurston
0-64	53,557
65+	43,134
TOTALS	96,691

Thurston Acute Care Bed Need
Appendix 9

PROJECTED # OF PATIENT DAYS				
YEAR 2014	Thurston	WA - TC	TOTAL	
0-64	53,557	1,511,996	1,565,553	
65+	43,134	1,140,500	1,183,634	
TOTALS	96,691	2,652,496	2,749,187	
MARKET SHARE % OF PATIENT DAYS FROM STEP 1				
% OF Thurston RESIDENTS	Thurston	WA - TC	TO OREGON	
0-64	60.73%	38.84%	0.43%	
65+	82.47%	17.17%	0.36%	
% OF WA - TC RESIDENTS	Thurston	WA - TC	TO OREGON	
0-64	1.16%	95.59%	3.25%	
65+	1.52%	96.41%	2.07%	
# OF Thurston RESIDENTS	Thurston	WA - TC	TO OREGON	Total
0-64	32,525	20,803	229	53,557
65+	35,573	7,406	155	43,134
				96,691
# OF WA - TC RESIDENTS	Thurston	WA - TC	TO OREGON	Total
0-64	17,511	1,445,391	49,094	1,511,996
65+	17,367	1,099,565	23,567	1,140,500
				2,652,496
# OF RESIDENT PAT DAYS PROJECTED IN Thurston				
0-64	50,037			
65+	52,940			
# OF RESIDENT PAT DAYS PROJECTED IN WA - TC				
0-64	1,466,194			
65+	1,106,971			
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON				
0-64	49,322			
65+	23,723			
OUT OF STATE % OF PATIENT DAYS FROM STEP 1				
Thurston	%			
0-64	0.49%			
65+	1.05%			
WA - TC				
0-64	5.68%			
65+	4.60%			
PROJECTED # OF PATIENT DAYS 2014 PLUS OUT OF STATE RESIDENTS				
Thurston				
0-64	50,279	0.938797832		
65+	53,498	1.240279644		
TOTAL	103,778			

Thurston Acute Care Bed Need - No Change
Appendix 10a

	2007	2008	2009	2010	2011	2012	2013	2014		
Thurston Planning Area										
Population 0-64(1)	194,640	197,618	200,010	202,402	204,794	207,186	209,578	211,970		
0-64 Use Rate	232.13	235.06	238.00	240.93	243.86	246.80	249.73	252.66		
Population 65+(1)	23,446	23,975	25,219	26,463	27,707	28,951	30,195	31,439		
65+ Use Rate	1,351.46	1354.39	1357.33	1360.26	1363.19	1366.13	1369.06	1371.99		
Total Population	218,085	221,593	225,229	228,865	232,501	236,137	239,773	243,409		
Total Thurston Res Days	76,868	78,925	81,832	84,761	87,712	90,684	93,677	96,691		
Total Days in Thurston Hospitals (2)	81,716	83,884	87,144	90,426	93,731	97,058	100,407	103,778		
Available Beds(3)										
Capital Medical Center	110	110	110	110	110	110	110	110		
Providence/St. Peter	312	312	312	312	312	312	312	312		
Total	422	422	422	422	422	422	422	422		
Wtd Occ Std(4)	72.39%	72.39%	72.39%	72.39%	72.39%	72.39%	72.39%	72.39%		
Gross Bed Need	309.25	317.46	329.80	342.22	354.72	367.31	379.99	392.75		
Net Bed Need/Surplus	-112.75	-104.54	-92.20	-79.78	-67.28	-54.69	-42.01	-29.25		
(1) Source: OFM Nov 2007 Population projections										
(2) Adjusted to reflect referral patterns into and out of Thurston Planning Area to other planning areas and Oregon										
(3) Source: CHARS & Survey Data										
(4) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,										

	2007	2008	2009	2010	2011	2012	2013	2014
Thurston Planning Area								
Population 0-64(1)	194,640	197,618	200,010	202,402	204,794	207,186	209,578	211,970
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Total Population	218,085	221,593	225,229	228,865	232,501	236,137	239,773	243,409
Total Thurston Res Days	76,868	78,925	81,832	84,761	87,712	90,684	93,677	96,691
Total Days in Thurston Hospitals (2)	81,716	83,884	87,144	90,426	93,731	97,058	100,407	103,778
Available Beds(3)								
Capital Medical Center	110	110	110	110	110	110	110	110
Providence/St. Peter	312	312	312	362	362	362	362	362
Total	422	422	422	472	472	472	472	472
Wtd Occ Std(4)	72.39%	72.39%	72.39%	72.67%	72.67%	72.67%	72.67%	72.67%
Gross Bed Need	309.25	317.46	329.80	340.92	353.38	365.92	378.54	391.25
Net Bed Need/Surplus	-112.75	-104.54	-92.20	-131.08	-118.62	-106.08	-93.46	-80.75

(1) Source: OFM Nov 2007 Population projections

(2) Adjusted to reflect referral patterns into and out of Thurston Planning Area to other planning areas and Oregon

(3) Source: CHARS & Survey Data

(4) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,