



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #1

2001-2010 HSA TOTAL NUMBER OF RESIDENT PATIENT DAYS											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	1,162,777	1,173,852	1,185,068	1,194,260	1,223,414	1,235,319	1,282,804	1,328,827	1,321,575	1,313,342	12,421,238
HSA #2	256,563	253,289	255,899	263,115	276,777	293,555	300,638	312,293	319,890	320,824	2,852,843
HSA #3	226,259	226,581	224,903	224,472	236,427	237,942	242,831	252,570	252,469	255,934	2,380,388
HSA #4	230,013	224,663	225,569	224,892	232,713	241,052	242,493	242,055	236,291	228,477	2,328,218
STATEWIDE TOTAL	1,875,612	1,878,385	1,891,439	1,906,739	1,969,331	2,007,868	2,068,766	2,135,745	2,130,225	2,118,577	19,982,687
Data Source											
2001-2010 CHARS wo all MDC19 and MDC15.xlsx											



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #2

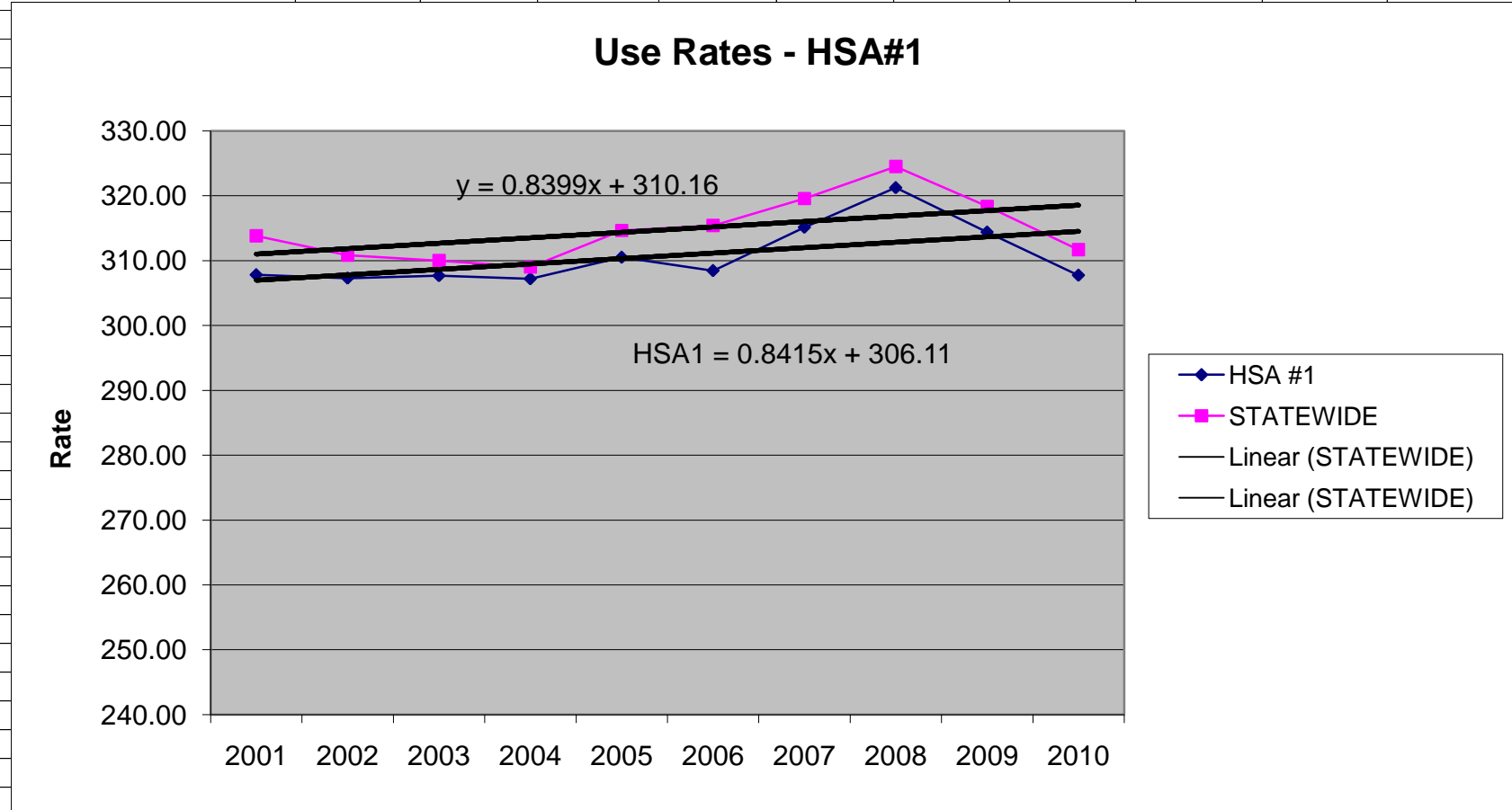
2001-2010 HSA TOTAL NUMBER OF DISCHARGES											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	1,162,777	1,173,852	1,185,068	1,194,260	1,223,414	1,235,319	1,282,804	1,328,827	1,321,575	1,313,342	12,421,238
HSA #2	256,563	253,289	255,899	263,115	276,777	293,555	300,638	312,293	319,890	320,824	2,852,843
HSA #3	226,259	226,581	224,903	224,472	236,427	237,942	242,831	252,570	252,469	255,934	2,380,388
HSA #4	230,013	224,663	225,569	224,892	232,713	241,052	242,493	242,055	236,291	228,477	2,328,218
STATEWIDE TOTAL	1,875,612	1,878,385	1,891,439	1,906,739	1,969,331	2,007,868	2,068,766	2,135,745	2,130,225	2,118,577	19,982,687
2001-2010 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	502	492	741	717	662	616	805	1067	1713	1404	8,719
HSA #2	25	11	58	87	58	11	9	42	18	0	319
HSA #3	21	27	156	88	73	79	102	28	180	123	877
HSA #4	60	0	15	6	6	10	38	15	95	0	245
STATEWIDE TOTAL	608	530	970	898	799	716	954	1,152	2,006	1,527	10,160
HSA #1 Hospitals include: BHC Fairfax in Kirkland, West Seattle Psych Hospital in Seattle, and Puget Sound Behavioral Health in Tacoma											
HSA #3 Hospital includes: Carondelet Behavioral Health/Lourdes Counseling Center in Richland											
2001-2010 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	1,162,275	1,173,360	1,184,327	1,193,543	1,222,752	1,234,703	1,281,999	1,327,760	1,319,862	1,311,938	12,412,519
HSA #2	256,538	253,278	255,841	263,028	276,719	293,544	300,629	312,251	319,872	320,824	2,852,524
HSA #3	226,238	226,554	224,747	224,384	236,354	237,863	242,729	252,542	252,289	255,811	2,379,511
HSA #4	229,953	224,663	225,554	224,886	232,707	241,042	242,455	242,040	236,196	228,477	2,327,973
STATEWIDE TOTAL	1,875,004	1,877,855	1,890,469	1,905,841	1,968,532	2,007,152	2,067,812	2,134,593	2,128,219	2,117,050	19,972,527



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #3

2001-2010 HSA TOTAL NUMBER OF RESIDENT PATIENT DAYS MINUS PSYCH DAYS											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	1,162,275	1,173,360	1,184,327	1,193,543	1,222,752	1,234,703	1,281,999	1,327,760	1,319,862	1,311,938	12,412,519
HSA #2	256,538	253,278	255,841	263,028	276,719	293,544	300,629	312,251	319,872	320,824	2,852,524
HSA #3	226,238	226,554	224,747	224,384	236,354	237,863	242,729	252,542	252,289	255,811	2,379,511
HSA #4	229,953	224,663	225,554	224,886	232,707	241,042	242,455	242,040	236,196	228,477	2,327,973
STATEWIDE TOTAL	1,875,004	1,877,855	1,890,469	1,905,841	1,968,532	2,007,152	2,067,812	2,134,593	2,128,219	2,117,050	19,972,527
//////											
TOTAL POPULATIONS BY HSA											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	3,776,110	3,818,510	3,849,500	3,885,500	3,938,000	4,003,059	4,068,118	4,133,178	4,198,237	4,263,296	39,933,508
HSA #2	898,300	912,500	925,300	942,000	959,800	981,194	1,002,587	1,023,981	1,045,374	1,066,768	9,757,804
HSA #3	669,200	675,600	684,600	695,900	707,100	718,790	730,480	742,169	753,859	765,549	7,143,247
HSA #4	631,300	635,100	638,900	644,400	651,500	660,541	669,582	678,623	687,664	696,705	6,594,315
STATEWIDE TOTAL	5,974,910	6,041,710	6,098,300	6,167,800	6,256,400	6,363,584	6,470,767	6,577,951	6,685,134	6,792,318	63,428,874
//////											
USE RATE PER 1,000 BY HSA											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	307.80	307.28	307.66	307.18	310.50	308.44	315.13	321.24	314.38	307.73	3,107
HSA #2	285.58	277.56	276.50	279.22	288.31	299.17	299.85	304.94	305.99	300.74	2,918
HSA #3	338.07	335.34	328.29	322.44	334.26	330.92	332.29	340.28	334.66	334.15	3,331
HSA #4	364.25	353.74	353.03	348.99	357.19	364.92	362.10	356.66	343.48	327.94	3,532
STATEWIDE	313.81	310.82	310.00	309.00	314.64	315.41	319.56	324.51	318.35	311.68	3,148
Source											
1998_2007 HSA Populations 2007 data.xls											

USE RATE PER 1,000 BY HSA	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	307.80	307.28	307.66	307.18	310.50	308.44	315.13	321.24	314.38	307.73	3,107.35
HSA #2	285.58	277.56	276.50	279.22	288.31	299.17	299.85	304.94	305.99	300.74	2,917.87
HSA #3	338.07	335.34	328.29	322.44	334.26	330.92	332.29	340.28	334.66	334.15	3,330.70
HSA #4	364.25	353.74	353.03	348.99	357.19	364.92	362.10	356.66	343.48	327.94	3,532.30
STATEWIDE	313.81	310.82	310.00	309.00	314.64	315.41	319.56	324.51	318.35	311.68	3,147.78

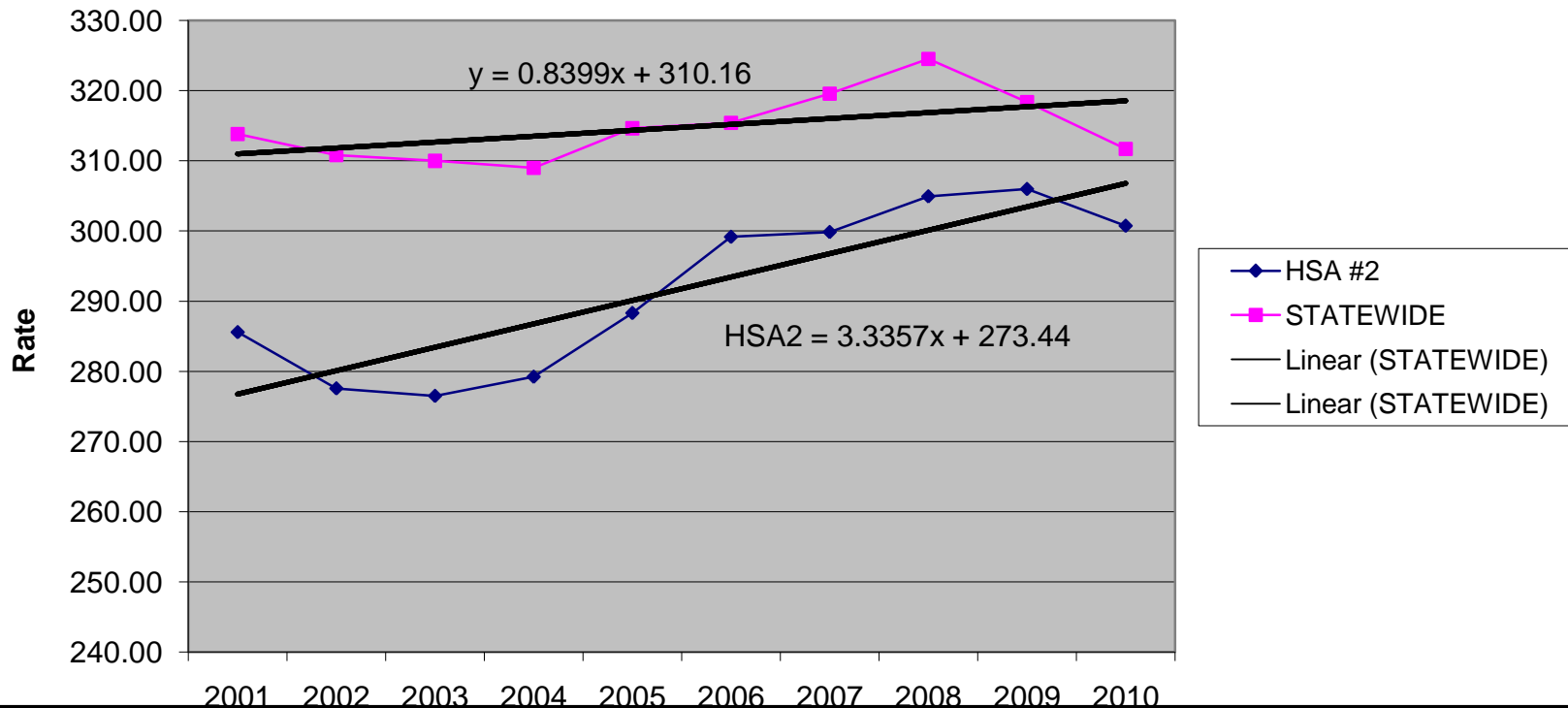




State of Washington
10 Year Acute Care Bed Need Methodology
STEP #4

USE RATE PER 1,000 BY HSA	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	307.80	307.28	307.66	307.18	310.50	308.44	315.13	321.24	314.38	307.73	3,107.35
HSA #2	285.58	277.56	276.50	279.22	288.31	299.17	299.85	304.94	305.99	300.74	2,917.87
HSA #3	338.07	335.34	328.29	322.44	334.26	330.92	332.29	340.28	334.66	334.15	3,330.70
HSA #4	364.25	353.74	353.03	348.99	357.19	364.92	362.10	356.66	343.48	327.94	3,532.30
STATEWIDE	313.81	310.82	310.00	309.00	314.64	315.41	319.56	324.51	318.35	311.68	3,147.78

Use Rates - HSA#2

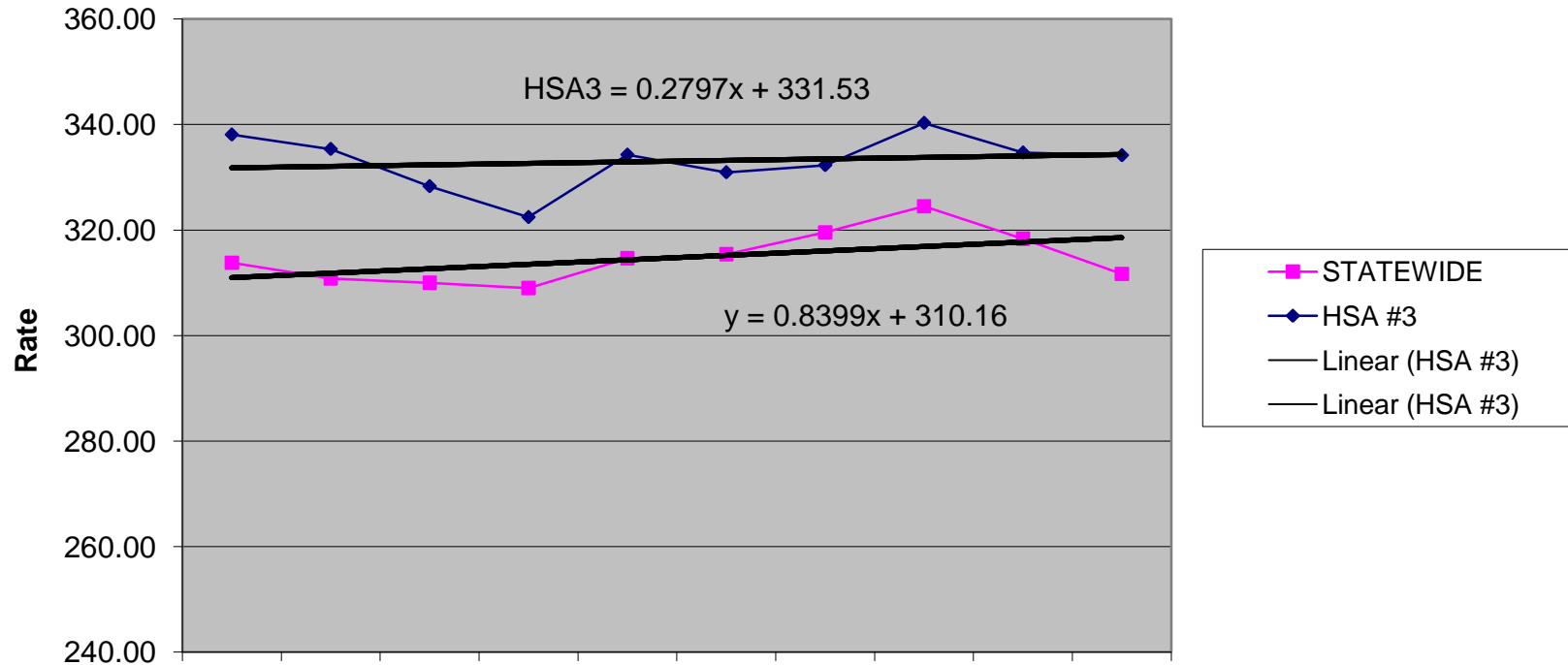




State of Washington
10 Year Acute Care Bed Need Methodology
STEP #4

USE RATE PER 1,000 BY HSA	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	307.80	307.28	307.66	307.18	310.50	308.44	315.13	321.24	314.38	307.73	3,107.35
HSA #2	285.58	277.56	276.50	279.22	288.31	299.17	299.85	304.94	305.99	300.74	2,917.87
HSA #3	338.07	335.34	328.29	322.44	334.26	330.92	332.29	340.28	334.66	334.15	3,330.70
HSA #4	364.25	353.74	353.03	348.99	357.19	364.92	362.10	356.66	343.48	327.94	3,532.30
STATEWIDE	313.81	310.82	310.00	309.00	314.64	315.41	319.56	324.51	318.35	311.68	3,147.78

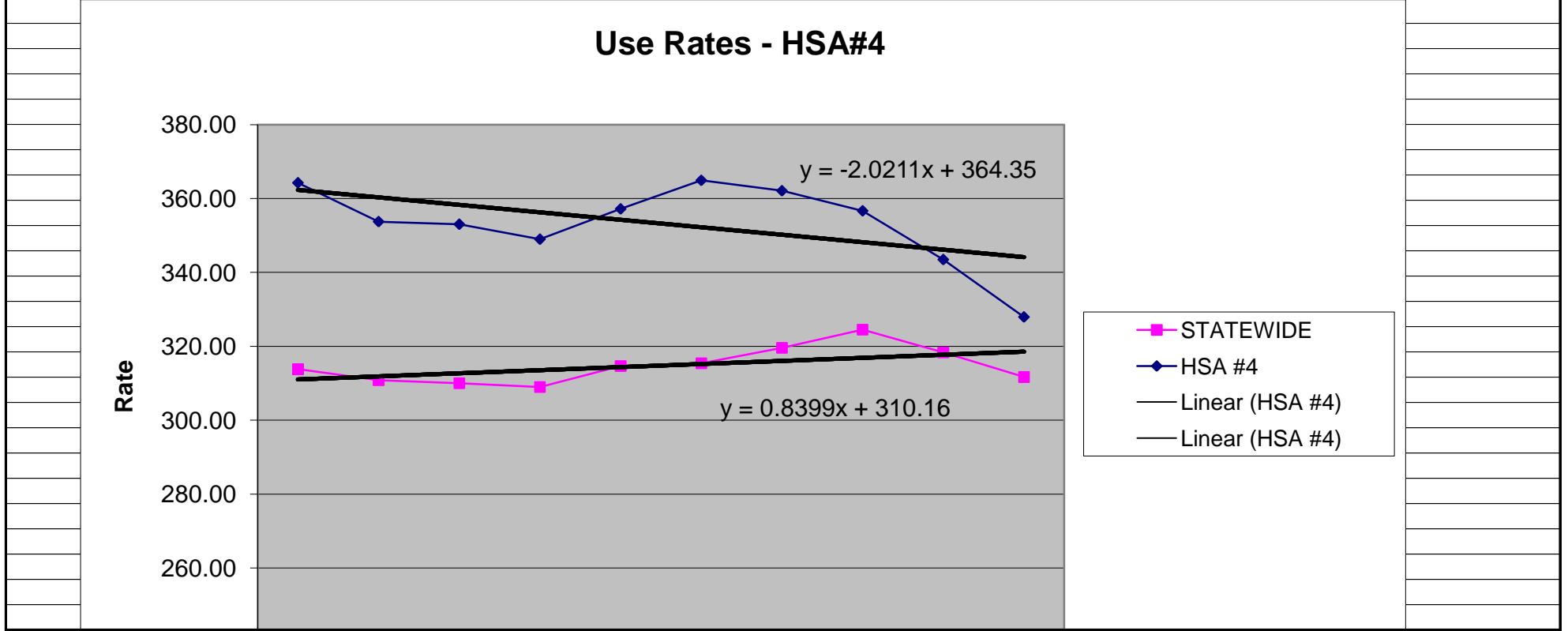
Use Rates - HSA#3





State of Washington
10 Year Acute Care Bed Need Methodology
STEP #4

USE RATE PER 1,000 BY HSA											
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	10-YEAR TOTAL
HSA #1	307.80	307.28	307.66	307.18	310.50	308.44	315.13	321.24	314.38	307.73	3,107.35
HSA #2	285.58	277.56	276.50	279.22	288.31	299.17	299.85	304.94	305.99	300.74	2,917.87
HSA #3	338.07	335.34	328.29	322.44	334.26	330.92	332.29	340.28	334.66	334.15	3,330.70
HSA #4	364.25	353.74	353.03	348.99	357.19	364.92	362.10	356.66	343.48	327.94	3,532.30
STATEWIDE	313.81	310.82	310.00	309.00	314.64	315.41	319.56	324.51	318.35	311.68	3,147.78



STEP #5									
2010 HOSPITAL PATIENT DAYS									
	# of Pat days	Less OOS	TOTAL LESS OOS						
HSA 1									
0-64	855,727	32,399	823,328						%
65+	575,988	13,363	562,625						2.32%
TOTAL	1,431,715	45,762	1,385,953						
HSA 2									
0-64	162,960	5,877	157,083						3.61%
65+	133,748	4,872	128,876						3.64%
TOTAL	296,708	10,749	285,959						
HSA 3									
0-64	120,480	4,168	116,312						3.46%
65+	101,890	3,555	98,335						3.49%
TOTAL	222,370	7,723	214,647						
HSA 4									
0-64	143,490	18,398	125,092						12.82%
65+	121,003	14,617	106,386						12.08%
TOTAL	264,493	33,015	231,478						
	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TOTAL # OF DAYS FOR RESIDENTS BY HSA (LESS PATS FROM OOS)	ADD DAYS PROVIDED IN OREGON **	TOTAL # OF DAYS FOR RESIDENTS BY HSA		
FROM HSA 1									
0-64	759,497	8,789	1,512	899	770,697	1,715	772,412		
65+	539,763	1,835	641	406	542,645	1,164	543,809		
TOTAL	1,299,260	10,624	2,153	1,305	1,313,342	2,879	1,316,221		
FROM HSA 2									
0-64	31,689	147,381	765	176	180,011	35,390	215,401		
65+	13,574	126,745	343	151	140,813	19,645	160,458		
TOTAL	45,263	274,126	1,108	327	320,824	55,035	375,859		
FROM HSA 3									
0-64	26,170	672	111,297	9,822	147,961	832	148,793		
65+	7,912	163	95,077	4,281	107,433	431	107,864		
TOTAL	34,082	835	206,374	14,103	255,394	1,263	256,657		
FROM HSA 4									
0-64	5,972	241	2,738	114,195	123,146	756	123,902		
65+	1,376	133	2,274	101,548	105,331	258	105,589		
TOTAL	7,348	374	5,012	215,743	228,477	1,014	229,491		
	1,385,953	285,959	214,647	231,478					
** Patient Days as reported by HCUP data for Oregon CHARS 2									
MARKET SHARE									
PERCENTAGE OF PATIENT DAYS									
	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON				
% OF HSA 1 RESIDENTS									
0-64	98.33%	1.14%	0.20%	0.12%	0.22%				
65+	99.26%	0.34%	0.12%	0.07%	0.21%				
TOTAL									
% OF HSA 2 RESIDENTS									
0-64	14.71%	68.42%	0.36%	0.08%	16.43%				
65+	8.46%	78.99%	0.21%	0.09%	12.24%				
TOTAL									
% OF HSA 3 RESIDENTS									
0-64	17.59%	0.45%	74.80%	6.60%	0.56%				
65+	7.34%	0.15%	88.15%	3.97%	0.40%				
TOTAL									
% OF HSA 4 RESIDENTS									
0-64	4.82%	0.19%	2.21%	92.17%	0.61%				
65+	1.30%	0.13%	2.15%	96.17%	0.24%				
TOTAL									
2010 POPULATIONS BY HSA									
	HSA 1	HSA 2	HSA 3	HSA 4					
0-64	3,760,555	927,208	678,533	607,585	5,973,881				
65+	502,741	139,560	87,016	89,120	818,437				
TOTAL	4,263,296	1,066,768	765,549	696,705					
STEP #6									
USE RATE BY HSA									
	HSA 1	HSA 2	HSA 3	HSA 4					
USE RATES									
0-64	205.40	232.31	219.29	203.93					
65+	1,081.69	1,149.74	1,239.59	1,184.80					



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #7A

USE RATE BY HSA FROM STEP 6					
	HSA 1	HSA 2	HSA 3	HSA 4	
YEAR 2010 USE RATES					
0-64	205.40	232.31	219.29	203.93	
65+	1,081.69	1,149.74	1,239.59	1,184.80	
PROJECTED POPULATION - 2017					
	HSA 1	HSA 2	HSA 3	HSA 4	
0-64	3,959,049	1,004,476	729,113	644,592	
65+	683,051	191,307	107,328	114,063	
TOTALS	4,642,100	1,195,783	836,441	758,655	
PROJECTED USE RATE - 2017					
<i>7 year Factor</i>	HSA 1	HSA 2	HSA 3	HSA 4	
USE RATES*					
0-64 using HSA Trend	211.29	255.66	221.24	189.78	
0-64 using Statewide Trend	211.28	238.19	225.17	209.80	
65+ using HSA Trend	1,087.58	1,173.09	1,241.55	1,170.65	
65+ using Statewide Trend	1,087.57	1,155.62	1,245.47	1,190.68	
*Projected by applying either HSA trend or Statewide trend, whichever trend would result in the smaller adjustment					
Bold Print indicates use rate closest to current value					



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #8

USE RATE BY HSA FROM STEP 7A				
	HSA 1	HSA 2	HSA 3	HSA 4
Projected USE RATES				
0-64	211.28	238.19	221.24	189.78
65+	1087.57	1155.62	1241.55	1170.65
PROJECTED POPULATION				
YEAR 2017	HSA 1	HSA 2	HSA 3	HSA 4
0-64	3,959,049	1,004,476	729,113	644,592
65+	683,051	191,307	107,328	114,063
TOTALS	4,642,100	1,195,783	836,441	758,655
PROJECTED # OF PATIENT DAYS				
YEAR 2017	HSA 1	HSA 2	HSA 3	HSA 4
0-64	836,459	239,257	161,312	122,329
65+	742,864	221,078	133,252	133,527
TOTALS	1,579,323	460,335	294,564	255,856



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #9

PROJECTED # OF PATIENT DAYS					
YEAR 2017	HSA 1	HSA 2	HSA 3	HSA 4	TOTAL
0-64	836,459	239,257	161,312	122,329	1,359,357
65+	742,864	221,078	133,252	133,527	1,230,722
TOTALS	1,579,323	460,335	294,564	255,856	2,590,079
MARKET SHARE % OF PATIENT DAYS FROM STEP 5					
% OF HSA 1 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	98.33%	1.14%	0.20%	0.12%	0.22%
65+	99.26%	0.34%	0.12%	0.07%	0.21%
% OF HSA 2 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	14.71%	68.42%	0.36%	0.08%	16.43%
65+	8.46%	78.99%	0.21%	0.09%	12.24%
% OF HSA 3 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	17.59%	0.45%	74.80%	6.60%	0.56%
65+	7.34%	0.15%	88.15%	3.97%	0.40%
% OF HSA 4 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	4.82%	0.19%	2.21%	92.17%	0.61%
65+	1.30%	0.13%	2.15%	96.17%	0.24%
# OF HSA 1 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	822,473	9,518	1,637	974	1,857
65+	737,337	2,507	876	555	1,590
# OF HSA 2 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	35,199	163,704	850	195	39,309
65+	18,702	174,629	473	208	27,067
# OF HSA 3 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	28,372	729	120,661	10,648	902
65+	9,774	201	117,456	5,289	532
# OF HSA 4 RESIDENT DAYS	TO HSA 1	TO HSA 2	TO HSA 3	TO HSA 4	TO OREGON
0-64	5,896	238	2,703	112,745	746
65+	1,740	168	2,876	128,417	326



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #9

# OF RESIDENT PAT DAYS PROJECTED IN HSA1		TOTALS
0-64	891,940	1,659,493
65+	767,554	
# OF RESIDENT PAT DAYS PROJECTED IN HSA2		
0-64	174,188	351,693
65+	177,505	
# OF RESIDENT PAT DAYS PROJECTED IN HSA3		
0-64	125,852	247,531
65+	121,680	
# OF RESIDENT PAT DAYS PROJECTED IN HSA4		
0-64	124,563	259,031
65+	134,468	
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON		
0-64	42,815	72,331
65+	29,516	
		2,590,079
OUT OF STATE % OF PATIENT DAYS FROM STEP 5		
HSA 1	%	
0-64	3.79%	
65+	2.32%	
HSA 2		
0-64	3.61%	
65+	3.64%	
HSA 3		
0-64	3.46%	
65+	3.49%	
HSA 4		
0-64	12.82%	
65+	12.08%	



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #9

PROJECTED # OF PATIENT DAYS 2017 PLUS OUT OF STATE RESIDENT DAYS					
HSA 1					
0-64	925,710				
65+	785,361				
TOTAL	1,711,071				
HSA 2					
0-64	180,470				
65+	183,971				
TOTAL	364,441				
HSA 3					
0-64	130,205				
65+	125,925				
TOTAL	256,130				
HSA 4					
0-64	140,534				
65+	150,712				
TOTAL	291,246				



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #10

PROJECTED # OF PATIENT DAYS								
PLUS OUT OF STATE RESIDENT DAYS								
	HSA 1							
	0-64	925,710						
	65+	785,361						
	TOTAL	1,711,071						
	HSA 2							
	0-64	180,470						
	65+	183,971						
	TOTAL	364,441						
	HSA 3							
	0-64	130,205						
	65+	125,925						
	TOTAL	256,130						
	HSA 4			Statewide				
	0-64	140,534		1,376,919				
	65+	150,712		1,245,969				
	TOTAL	291,246		2,622,888				
WEIGHTED OCCUPANCY STANDARD FOR HSA				- 2010 Data				
	HSA 1	70.63%						
	HSA 2	71.03%						
	HSA 3	62.88%						
	HSA 4	68.10%						



State of Washington
10 Year Acute Care Bed Need Methodology
STEP #10

NON-PSYCH BED NEED 2017								
equals projected patient days/365/weighted occupancy standard								
	HSA 1	6637						
	HSA 2	1406						
	HSA 3	1116						
	HSA 4	1172						
BED SUPPLY 20xx								
	HSA 1	5984						
	HSA 2	1556						
	HSA 3	1184						
	HSA 4	1611						
NET NON-PSYCH BED NEED 20xx								
	HSA 1	653		xx licensed beds not set up and not counted in supply				
	HSA 2	-150		xx licensed beds not set up and not counted in supply				
	HSA 3	-68		xx licensed beds not set up and not counted in supply				
	HSA 4	-439		xx licensed beds not set up and not counted in supply				
		Negative number indicates a surplus						