

Appendix Table 1 - Entering Class to Births Ratio Worksheet Resident Enrollment - Hermon Resident Students - 2017-18 Best Fit Model

Oct 15-Oct 14 Births	Number Births	KG Year	KG Class Size	1st Grade Year	1st Class Size	Ratio 1st/Birth	Ratio 1st/K	Proj. 1st Grade	Net Preschool Migration	
2001-02	39	10/07	60	10/08	63	1.615	1.050		24	
2002-03	37	10/08	46	10/09	48	1.297	1.043		11	
2003-04	49	10/09	64	10/10	61	1.245	0.953		12	
2004-05	49	10/10	73	10/11	75	1.531	1.027		26	
2005-06	60	10/11	67	10/12	70	1.167	1.045		10	
2006-07	45	10/12	72	10/13	72	1.600	1.000		27	
2007-08	54	10/13	61	10/14	65	1.204	1.066		11	
2008-09	59	10/14	69	10/15	82	1.390	1.188		23	
2009-10	65	10/15	77	10/16	78	1.200	1.013		13	
2010-11	51	10/16	67	10/17	77	1.510	1.149		26	
2011-12	60	10/17	77	10/18		1.326	1.033	80	20	
2012-13	71	10/18		10/19		1.326		94	23	
2013-14	65	10/19		10/20		1.326		86	21	
2014-15	80	10/20		10/21		1.326		106	26	
2015-16	76	10/21		10/22		1.326		101	25	
2016-17*	73	10/22		10/23		1.326		97	24	
2017-18 est	73	10/23		10/24		1.326		97	24	
2018-19 est	73	10/24		10/25		1.326		97	24	
2019-20 est	73	10/25		10/26		1.326		97	24	
2020-21 est	73	10/26		10/27		1.326		97	24	
10yr Total (02-11)	508	10yr Total (07-16)	656	10yr Total (08-17)	691	1.360	1.053	Last 10yr	18.3	
10yr Avg (02-11)	51	10yr Avg (07-16)	66	10yr Avg (08-17)	69	1.376	1.053	Last 5yr	20.0	
5yr Avg (13-17)	73							Last 3yr	20.7	
5yr Max (13-17)	80							Proj.	23.4	
5yr Min (13-17)	65									
3 yr Avg (15-17)	76									
First Grade to Births Correlation Coefficients		First Grade to Kindergarten Correlation Coefficients								
10 YEAR	0.706	10 YEAR	0.885							
9 YEAR	0.701	9 YEAR	0.880							
8 YEAR	0.389	8 YEAR	0.659							
7 YEAR	0.267	7 YEAR	0.593							
6 YEAR	0.313	6 YEAR	0.603							
5 YEAR	0.450	5 YEAR	0.588							
4 YEAR	0.412	4 YEAR	0.695							
3 YEAR	0.269	3 YEAR	-0.143							
						Ratios	1st/Birth	1st/K		
						Avg last 10	1.376	1.053		
						Avg last 9	1.349	1.054		
						Avg last 8	1.356	1.055		
						Avg last 7	1.372	1.070		
						Avg last 6	1.345	1.077		
						Avg last 5	1.381	1.083		
						Avg last 4	1.326	1.104		
						Avg last 3	1.367	1.117		
						av 1st 5	1.371	1.024		
						10yr Weighted	1.363	1.071		
						5yr Weighted	1.369	1.100		

Notes: Enrollment data contains all resident students except home schooled students and private school students. Five-year average of births (2012-13 to 2016-17) used to estimate births from 2017-18 to 2020-21. *2017 birth data is preliminary and provisional from the Maine Department of Health and Human Services, Office of Data, Research, and Vital Statistics. Due to skewing of the data from the smaller population sizes and the correlations coefficients not being strong for any time period, the 4-year ratio of first to births was used to project future first grade class sizes.

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

Appendix Table 2 - Enrollment Trends & Projections - Hermon Resident Students - 2017-18 Best Fit Model

October 1st Enrollment

School Year	PreK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12
Historical																			
2007-08	27	60	65	77	60	68	60	73	67	75	76	62	72	67	357	275	632	277	909
2008-09	34	46	63	69	81	65	72	61	72	69	81	70	61	68	358	274	632	280	912
2009-10	33	64	48	62	69	80	63	71	58	66	69	78	67	61	356	258	614	275	889
2010-11	34	73	61	49	64	69	86	62	74	57	74	70	82	66	350	279	629	292	921
2011-12	36	67	75	69	52	60	72	83	61	70	66	71	70	84	359	286	645	291	936
2012-13	35	72	70	74	67	54	64	78	86	62	73	68	71	67	372	290	662	279	941
2013-14	40	61	72	69	70	66	57	61	77	80	58	72	65	68	378	275	653	263	916
2014-15	44	69	65	74	77	68	69	60	62	76	79	61	76	63	397	267	664	279	943
2015-16	39	77	82	66	78	82	72	75	63	66	73	75	61	72	424	276	700	281	981
2016-17	47	67	78	81	64	78	75	71	70	65	63	75	78	60	415	281	696	276	972
2017-18	73	77	77	77	75	65	80	80	73	69	65	63	76	79	444	302	746	283	1,029
Projected																			
2018-19	68	89	80	77	78	76	67	84	80	73	67	65	64	74	468	304	772	270	1,042
2019-20	84	82	94	79	78	79	78	70	84	80	71	67	66	63	496	312	808	267	1,075
2020-21	80	101	86	94	80	79	81	82	70	84	78	71	68	65	520	317	837	282	1,119
2021-22	77	96	106	86	95	81	81	85	82	70	82	78	72	67	541	318	859	299	1,158
2022-23	77	92	101	106	87	96	84	85	85	82	68	82	79	71	559	336	895	300	1,195
2023-24	77	92	97	100	107	88	99	88	85	85	80	68	83	78	561	357	918	309	1,227
2024-25	77	92	97	96	102	108	91	104	88	85	83	80	69	82	572	368	940	314	1,254
2025-26	77	92	97	96	98	103	111	95	104	88	82	83	81	68	563	398	961	314	1,275
2026-27	77	92	97	96	98	99	106	117	95	104	85	83	84	80	559	422	981	332	1,313
2027-28	77	92	97	96	98	99	102	111	117	95	101	85	84	83	559	425	984	353	1,337

Notes: Enrollment data contains all resident students EXCEPT homeschooled students and students attending privately paid schools, it does however contain any resident students attending a Charter School or non-district publicly funded school.

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

**Appendix Table 3 - Hermon Attending Resident Enrollment - Average Grade-To-Grade Survival Ratios
2017-18 Best Fit Model**

School Year	Grade											
	K-1		1-2		2-3		3-4		4-5		5-6	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (08-17)	1.053	5.3%	1.019	1.9%	1.013	1.3%	1.008	0.8%	1.031	3.1%	1.018	1.8%
1st 5-Year Avg. (08-12)	1.024	2.4%	1.037	3.7%	1.023	2.3%	1.009	0.9%	1.043	4.3%	1.007	0.7%
Last 5-Year Avg. (13-17)	1.083	8.3%	1.001	0.1%	1.002	0.2%	1.007	0.7%	1.020	2.0%	1.029	2.9%
Last 4-Year Avg. (14-17)	1.104	10.4%	1.005	0.5%	1.016	1.6%	1.013	1.3%	1.011	1.1%	1.048	4.8%
Last 3-Year Avg. (15-17)	1.117	11.7%	0.997	-0.3%	0.983	-1.7%	1.027	2.7%	1.000	0.0%	1.047	4.7%

School Year	Grade											
	6-7		7-8		8-9		9-10		10-11		11-12	
	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-	Ratio	% +/-
10 Year Avg. (08-17)	1.001	0.1%	0.989	-1.1%	1.024	2.4%	0.990	-1.0%	1.006	0.6%	0.978	-2.2%
1st 5-Year Avg. (08-12)	1.000	0.0%	0.978	-2.2%	1.080	8.0%	0.978	-2.2%	0.998	-0.2%	0.982	-1.8%
Last 5-Year Avg. (13-17)	1.003	0.3%	1.000	0.0%	0.968	-3.2%	1.003	0.3%	1.013	1.3%	0.974	-2.6%
Last 4-Year Avg. (14-17)	1.007	0.7%	1.017	1.7%	0.976	-2.4%	1.007	0.7%	1.027	2.7%	0.978	-2.2%
Last 3-Year Avg. (15-17)	1.004	0.4%	1.027	2.7%	0.972	-2.8%	0.992	-0.8%	1.018	1.8%	0.981	-1.9%

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

Appendix Table 4 - Enrollment Trends & Projections - Hermon Resident Enrollment - 2017-18 Best Fit Model

October 1st Enrollment															
School Year	Resident Students Attending District Schools					Resident Students at NON-District Schools					Total All Hermon Students				
	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2007-08	355	275	630	275	905	2	0	2	2	4	357	275	632	277	909
2008-09	356	274	630	278	908	2	0	2	2	4	358	274	632	280	912
2009-10	354	257	611	275	886	2	1	3	0	3	356	258	614	275	889
2010-11	348	278	626	290	916	2	1	3	2	5	350	279	629	292	921
2011-12	357	285	642	289	931	2	1	3	2	5	359	286	645	291	936
2012-13	372	289	661	275	936	0	1	1	4	5	372	290	662	279	941
2013-14	377	271	648	257	905	1	4	5	6	11	378	275	653	263	916
2014-15	397	264	661	272	933	0	3	3	7	10	397	267	664	279	943
2015-16	423	270	693	276	969	1	6	7	5	12	424	276	700	281	981
2016-17	412	279	691	271	962	3	2	5	5	10	415	281	696	276	972
2017-18	437	296	733	277	1,010	7	6	13	6	19	444	302	746	283	1,029
Projected															
2018-19	463	299	762	264	1,026	5	5	10	6	16	468	304	772	270	1,042
2019-20	490	307	797	261	1,058	6	5	11	6	17	496	312	808	267	1,075
2020-21	514	312	826	276	1,102	6	5	11	6	17	520	317	837	282	1,119
2021-22	535	313	848	293	1,141	6	5	11	6	17	541	318	859	299	1,158
2022-23	553	331	884	294	1,178	6	5	11	6	17	559	336	895	300	1,195
2023-24	555	352	907	303	1,210	6	5	11	6	17	561	357	918	309	1,227
2024-25	565	363	928	307	1,235	7	5	12	7	19	572	368	940	314	1,254
2025-26	557	392	949	307	1,256	6	6	12	7	19	563	398	961	314	1,275
2026-27	553	416	969	325	1,294	6	6	12	7	19	559	422	981	332	1,313
2027-28	553	419	972	346	1,318	6	6	12	7	19	559	425	984	353	1,337

Notes: Enrollment data contains all resident students EXCEPT homeschooled students and students attending privately paid schools, it does however contain any resident students attending a Charter School or non-district publicly funded school.

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

**Appendix Table 5 - All Hermon Resident Students - 2017-18 Best Fit Model
Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment**

School Year	Grades PreK-4			Grades 5-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2017-18*	444			302			283			1,029		
2018-19	421	468	515	274	304	334	257	270	284	952	1,042	1,133
2019-20	446	496	546	281	312	343	254	267	280	981	1,075	1,169
2020-21	468	520	572	285	317	349	268	282	296	1,021	1,119	1,217
2021-22	487	541	595	286	318	350	284	299	314	1,057	1,158	1,259
2022-23	503	559	615	302	336	370	285	300	315	1,090	1,195	1,300
2023-24	505	561	617	321	357	393	294	309	324	1,120	1,227	1,334
2024-25	515	572	629	331	368	405	298	314	330	1,144	1,254	1,364
2025-26	507	563	619	358	398	438	298	314	330	1,163	1,275	1,387
2026-27	503	559	615	380	422	464	315	332	349	1,198	1,313	1,428
2027-28	503	559	615	383	425	468	335	353	371	1,221	1,337	1,454

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-4			Grades 5-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2017-18*	444			302			283			1,029		
2018-19	454	468	482	295	304	313	262	270	278	1,011	1,042	1,073
2019-20	481	496	511	303	312	321	259	267	275	1,043	1,075	1,107
2020-21	504	520	536	307	317	327	274	282	290	1,085	1,119	1,153
2021-22	525	541	557	308	318	328	290	299	308	1,123	1,158	1,193
2022-23	542	559	576	326	336	346	291	300	309	1,159	1,195	1,231
2023-24	544	561	578	346	357	368	300	309	318	1,190	1,227	1,264
2024-25	555	572	589	357	368	379	305	314	323	1,217	1,254	1,291
2025-26	546	563	580	386	398	410	305	314	323	1,237	1,275	1,313
2026-27	542	559	576	409	422	435	322	332	342	1,273	1,313	1,353
2027-28	542	559	576	412	425	438	342	353	364	1,296	1,337	1,378

Notes: Enrollment data contains all resident students EXCEPT homeschooled students and students attending privately paid schools it does however contain any resident students attending a Charter School or non-district publicly funded school.

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

Appendix Table 6 - Enrollment Trends & Projections - Hermon Attending Enrollment (Resident & Non-Resident) - 2017-18 Best Fit Model

October 1st Enrollment

School Year	Resident Students Attending District Schools					NON Resident Students Attending District Schools					Total All Attending Students				
	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12	Total PreK-4	Total 5-8	Total PreK-8	Total 9-12	Total PreK-12
Historical															
2007-08	355	275	630	275	905	2	3	5	280	285	357	278	635	555	1,190
2008-09	356	274	630	278	908	0	4	4	271	275	356	278	634	549	1,183
2009-10	354	257	611	275	886	1	5	6	268	274	355	262	617	543	1,160
2010-11	348	278	626	290	916	1	4	5	259	264	349	282	631	549	1,180
2011-12	357	285	642	289	931	4	6	10	264	274	361	291	652	553	1,205
2012-13	372	289	661	275	936	0	3	3	244	247	372	292	664	519	1,183
2013-14	377	271	648	257	905	2	1	3	230	233	379	272	651	487	1,138
2014-15	397	264	661	272	933	5	6	11	237	248	402	270	672	509	1,181
2015-16	423	270	693	276	969	5	3	8	232	240	428	273	701	508	1,209
2016-17	412	279	691	271	962	3	4	7	239	246	415	283	698	510	1,208
2017-18	437	296	733	277	1,010	1	5	6	240	246	438	301	739	517	1,256
Projected															
2018-19	463	299	762	264	1,026	3	4	7	235	242	466	303	769	499	1,268
2019-20	490	307	797	261	1,058	3	6	9	251	260	493	313	806	512	1,318
2020-21	514	312	826	276	1,102	4	5	9	246	255	518	317	835	522	1,357
2021-22	535	313	848	293	1,141	4	1	5	248	253	539	314	853	541	1,394
2022-23	553	331	884	294	1,178	2	3	5	245	250	555	334	889	539	1,428
2023-24	555	352	907	303	1,210	2	3	5	253	258	557	355	912	556	1,468
2024-25	565	363	928	307	1,235	3	3	6	253	259	568	366	934	560	1,494
2025-26	557	392	949	307	1,256	3	3	6	242	248	560	395	955	549	1,504
2026-27	553	416	969	325	1,294	2	3	5	247	252	555	419	974	572	1,546
2027-28	553	419	972	346	1,318	2	3	5	251	256	555	422	977	597	1,574

Notes: Enrollment data contains all resident students and non-resident students attending district schools.

2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018

Data produced by Wandell Consulting

**Appendix Table 7 - Hermon Attending Enrollment (Resident & Non-Resident) - 2017-18 Best Fit Model
Enrollment Projection Ranges (+/-5% and +/-10%) - October 1st Enrollment**

School Year	Grades PreK-4			Grades 5-8			Grades 9-12			Total All Grades PreK-12		
	-10%	Proj.	+10%	-10%	Proj.	+10%	-5%	Proj.	+5%	-Range	Proj.	+Range
2017-18*	438			301			517			1,256		
2018-19	419	466	513	273	303	333	474	499	524	1,166	1,268	1,370
2019-20	444	493	542	282	313	344	486	512	538	1,212	1,318	1,424
2020-21	466	518	570	285	317	349	496	522	548	1,247	1,357	1,467
2021-22	485	539	593	283	314	345	514	541	568	1,282	1,394	1,506
2022-23	500	555	611	301	334	367	512	539	566	1,313	1,428	1,544
2023-24	501	557	613	320	355	391	528	556	584	1,349	1,468	1,588
2024-25	511	568	625	329	366	403	532	560	588	1,372	1,494	1,616
2025-26	504	560	616	356	395	435	522	549	576	1,382	1,504	1,627
2026-27	500	555	611	377	419	461	543	572	601	1,420	1,546	1,673
2027-28	500	555	611	380	422	464	567	597	627	1,447	1,574	1,702

Enrollment Projection Ranges (+/-3%) - October 1st Enrollment

School Year	Grades PreK-4			Grades 5-8			Grades 9-12			Total All Grades PreK-12		
	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	+3%	-3%	Proj.	3%
2017-18*	438			301			517			1,256		
2018-19	452	466	480	294	303	312	484	499	514	1,230	1,268	1,306
2019-20	478	493	508	304	313	322	497	512	527	1,279	1,318	1,357
2020-21	502	518	534	307	317	327	506	522	538	1,315	1,357	1,399
2021-22	523	539	555	305	314	323	525	541	557	1,353	1,394	1,435
2022-23	538	555	572	324	334	344	523	539	555	1,385	1,428	1,471
2023-24	540	557	574	344	355	366	539	556	573	1,423	1,468	1,513
2024-25	551	568	585	355	366	377	543	560	577	1,449	1,494	1,539
2025-26	543	560	577	383	395	407	533	549	565	1,459	1,504	1,549
2026-27	538	555	572	406	419	432	555	572	589	1,499	1,546	1,593
2027-28	538	555	572	409	422	435	579	597	615	1,526	1,574	1,622

Notes: Enrollment data contains all resident students and non-resident students attending district schools.
2017-18 Best Fit Model Enrollment Projections for Hermon, Completed March 2018
Data produced by Wandell Consulting