TIGARD-TUALATIN SCHOOL DISTRICT

ENROLLMENT FORECAST UPDATE

2018-19 TO 2027-28

Portland State UNIVERSITY

Population Research Center



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Table 1
Historic and Forecast Enrollment
Tigard-Tualatin School District

	Actual			Forecast	
	2007-08	**2012-13**	**2017-18**	**2022-23**	**2027-28**
District Total	**12,460**	**12,341**	**12,552**	**13,059**	**13,534**
5 year change		***-119***	***211***	***507***	***475***
		-1%	***2%***	***4%***	***4%***
K-5	5,672	5,533	5,635	5,927	6,116
5 year change		*-139*	*102*	*292*	*189*
		-2%	*2%*	*5%*	*3%*
6-8	2,855	2,863	2,840	2,916	3,160
5 year change		*8*	*-23*	*76*	*244*
		0%	*-1%*	*3%*	*8%*
9-12	3,933	3,945	4,077	4,216	4,258
5 year change		*12*	*132*	*139*	*42*
		0%	*3%*	*3%*	*1%*

Population Research Center, PSU. December 2017.

Chart 1
TTSD K-12 Enrollment History and Forecast

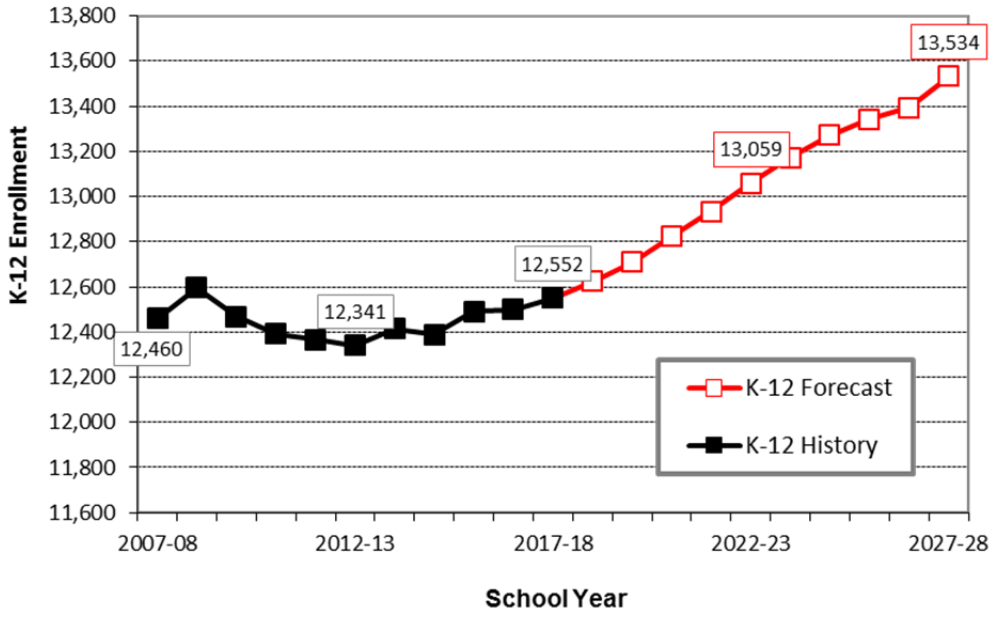


Table 2

Tigard-Tualatin School District, Enrollment History, 2007-08 to 2017-18

Grade	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
K	860	924	886	902	877	939	877	879	862	893	901
1	984	919	971	896	942	935	986	958	922	874	936
2	1,017	1,010	927	949	885	917	941	974	974	920	903
3	903	1,009	1,007	909	935	888	911	936	977	982	916
4	963	919	970	1,001	919	928	898	930	972	996	993
5	945	990	922	985	1,011	926	948	895	923	963	986
6	965	974	966	904	967	975	932	938	934	927	962
7	937	981	969	958	910	960	991	932	945	928	945
8	953	936	987	937	973	928	971	974	957	948	933
9	1,015	976	944	1,028	1,006	1,011	984	1,023	1,021	1,031	993
10	1,015	1,006	977	951	1,014	986	1,012	977	1,029	1,045	1,005
11	1,007	973	968	978	937	990	971	972	956	1,011	1,026
12	890	976	968	993	988	958	993	1,002	1,018	981	1,053
US*	6	2	5	2	2	0	0	0	0	0	0
Total	**12,460**	**12,595**	**12,467**	**12,393**	**12,366**	**12,341**	**12,415**	**12,390**	**12,490**	**12,499**	**12,552**
Annual change		*135*	*-128*	*-74*	*-27*	*-25*	*74*	*-25*	*100*	*9*	*53*
		1.1%	*-1.0%*	*-0.6%*	*-0.2%*	*-0.2%*	*0.6%*	*-0.2%*	*0.8%*	*0.1%*	*0.4%*
K-5	5,672	5,771	5,683	5,642	5,569	5,533	5,561	5,572	5,630	5,628	5,635
6-8	2,855	2,891	2,922	2,799	2,850	2,863	2,894	2,844	2,836	2,803	2,840
9-12	3,933	3,933	3,862	3,952	3,947	3,945	3,960	3,974	4,024	4,068	4,077

	5 Year Change: 2007-08 to 2012-13		5 Year Change: 2012-13 to 2017-18		10 Year Change: 2007-08 to 2017-18	
	Change	**Pct.**	**Change**	**Pct.**	**Change**	**Pct.**
K-5	-139	*-2%*	102	*2%*	-37	*-1%*
6-8	8	*0%*	-23	*-1%*	-15	*-1%*
9-12	12	*0%*	132	*3%*	144	*4%*
Total	**-119**	***-1%***	**211**	***2%***	**92**	***1%***

**Note: "US" are ungraded secondary students, included in grade 9-12 totals.*

Source: Tigard-Tualatin School District

Table 3
Enrollment History for Individual Schools, 2012-13 to 2017-18

	Historic Enrollment						5 year change 2012-13 to 2017-18	
School	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**Number**	**Percent**
Alberta Rider*	601	624	591	587	595	559	-42	*-7%*
Bridgeport	508	486	498	491	505	521	13	*3%*
Byrom*	568	529	528	560	553	562	-6	*-1%*
C.F. Tigard*	583	553	531	527	508	485	-98	*-17%*
Deer Creek	516	559	580	600	621	611	95	*18%*
Durham	550	563	574	584	530	552	2	*0%*
Metzger*	570	620	648	645	652	665	95	*17%*
Templeton	596	574	581	577	593	611	15	*3%*
Tualatin*	617	577	572	554	556	535	-82	*-13%*
Woodward*	424	476	469	505	515	534	110	*26%*
Elementary Totals	**5,533**	**5,561**	**5,572**	**5,630**	**5,628**	**5,635**	**102**	***2%***
Fowler M.S.*	802	804	815	804	803	801	-1	*0%*
Hazelbrook M.S.	988	1027	984	959	966	970	-18	*-2%*
Twality M.S.*	1,049	1,051	1,024	1,062	1,026	1,066	17	*2%*
Middle School Totals	**2,839**	**2,882**	**2,823**	**2,825**	**2,795**	**2,837**	**-2**	***0%***
Tigard H.S.	1,975	1,990	1,959	1,956	1,992	1,960	-15	*-1%*
Tualatin H.S.	1,842	1,839	1,896	1,928	1,940	1,998	156	*8%*
High School Totals	**3,817**	**3,829**	**3,855**	**3,884**	**3,932**	**3,958**	**141**	***4%***
Durham Center	67	66	55	46	52	50	-17	*-25%*
Tigard-Tualatin Online Academy	85	77	85	105	92	72	-13	*-15%*
District Totals	**12,256**	**12,415**	**12,390**	**12,490**	**12,499**	**12,552**	**296**	***2%***

**Note: Boundary changes before the 2013-14 school year shifted a portion of the former Alberta Rider and Twality attendance area to Mary Woodward and Fowler, and a portion of the former Tualatin Elementary attendance area to Byrom. A boundary change before the 2016-17 school year shifted a portion of the former Metzger attendance area to C.F. Tigard. These changes affect new students only, having only small initial impacts, with additional impact in subsequent years.*

Source: Tigard-Tualatin School District

Table 4

Tigard-Tualatin School District, Enrollment Forecasts, 2018-19 to 2027-28

	Actual	Forecast									
Grade	**2017-18**	**2018-19**	**2019-20**	**2020-21**	**2021-22**	**2022-23**	**2023-24**	**2024-25**	**2025-26**	**2026-27**	**2027-28**
K	901	929	949	955	943	948	962	969	972	976	984
1	936	939	967	985	992	979	984	1,000	1,006	1,009	1,013
2	903	948	951	978	996	1,003	990	995	1,011	1,018	1,021
3	916	915	960	962	990	1,008	1,015	1,002	1,007	1,023	1,030
4	993	927	926	972	974	1,002	1,020	1,027	1,014	1,019	1,036
5	986	1,006	939	938	985	987	1,015	1,033	1,040	1,027	1,032
6	962	998	1,018	949	948	995	997	1,026	1,044	1,051	1,038
7	945	972	1,009	1,027	957	956	1,003	1,005	1,035	1,053	1,060
8	933	955	982	1,017	1,036	965	964	1,011	1,013	1,044	1,062
9	993	988	1,011	1,037	1,074	1,094	1,019	1,018	1,068	1,070	1,103
10	1,005	1,000	995	1,014	1,040	1,077	1,097	1,022	1,021	1,071	1,073
11	1,026	988	983	976	994	1,020	1,056	1,076	1,002	1,001	1,050
12	1,053	1,060	1,021	1,013	1,006	1,025	1,051	1,088	1,109	1,033	1,032
Total	**12,552**	**12,625**	**12,711**	**12,823**	**12,935**	**13,059**	**13,173**	**13,272**	**13,342**	**13,395**	**13,534**
Annual change		*73* *0.6%*	*86* *0.7%*	*112* *0.9%*	*112* *0.9%*	*124* *1.0%*	*114* *0.9%*	*99* *0.8%*	*70* *0.5%*	*53* *0.4%*	*139* *1.0%*
K-5	5,635	5,664	5,692	5,790	5,880	5,927	5,986	6,026	6,050	6,072	6,116
6-8	2,840	2,925	3,009	2,993	2,941	2,916	2,964	3,042	3,092	3,148	3,160
9-12	4,077	4,036	4,010	4,040	4,114	4,216	4,223	4,204	4,200	4,175	4,258

	5 Year Change: 2017-18 to 2022-23		**5 Year Change: 2022-23 to 2027-28**		**10 Year Change: 2017-18 to 2027-28**	
	Growth	**Pct.**	**Growth**	**Pct.**	**Growth**	**Pct.**
K-5	292	*5%*	189	*3%*	481	*9%*
6-8	76	*3%*	244	*8%*	320	*11%*
9-12	139	*3%*	42	*1%*	181	*4%*
Total	**507**	***4%***	**475**	***4%***	**982**	***8%***

Population Research Center, Portland State University, December 2017

Table 5 (REVISED)

Enrollment Forecasts for Individual Schools, 2018-19 to 2027-28

School	Actual 2017-18	Forecast 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Change 2017-18-2027-28
Alberta Rider	559	566	578	622	658	692	731	761	783	799	806	247
Bridgeport	521	531	533	516	518	516	513	513	514	513	516	-5
Byrom	562	567	565	559	550	539	542	540	539	538	540	-22
C.F. Tigard*	485	475	488	506	508	522	533	533	534	535	538	53
Deer Creek	611	631	620	625	655	657	662	665	667	669	673	62
Durham	552	553	535	549	552	551	542	543	543	544	549	-3
Metzger*	665	635	626	616	614	611	623	631	635	638	644	-21
Templeton	611	612	617	633	644	635	636	635	635	636	642	31
Tualatin	535	538	547	547	544	538	536	530	524	524	526	-9
Woodward	534	556	583	617	637	666	668	675	676	676	682	148
Elementary Totals	**5,635**	**5,664**	**5,692**	**5,790**	**5,880**	**5,927**	**5,986**	**6,026**	**6,050**	**6,072**	**6,116**	**481**
Fowler M.S.	801	873	916	908	869	854	874	887	931	953	955	154
Hazelbrook M.S.	970	976	969	981	991	1,006	981	984	970	972	960	-10
Twality M.S.	1,066	1,073	1,121	1,101	1,078	1,053	1,106	1,168	1,188	1,220	1,242	176
Middle School Totals	**2,837**	**2,922**	**3,006**	**2,990**	**2,938**	**2,913**	**2,961**	**3,039**	**3,089**	**3,145**	**3,157**	**320**
Tigard H.S.	1,960	1,929	1,897	1,876	1,947	2,004	1,999	2,017	1,974	1,965	2,035	75
Tualatin H.S.	1,998	1,988	1,994	2,045	2,048	2,093	2,105	2,068	2,107	2,091	2,104	106
Durham Center (8^{th}-12^{th})	50	50	50	50	50	50	50	50	50	50	50	0
Tig.-Tual. Online (7^{th} - 12^{th})	72	72	72	72	72	72	72	72	72	72	72	0
High School Totals	**4,080**	**4,039**	**4,013**	**4,043**	**4,117**	**4,219**	**4,226**	**4,207**	**4,203**	**4,178**	**4,261**	**181**
District Totals	**12,552**	**12,625**	**12,711**	**12,823**	**12,935**	**13,059**	**13,173**	**13,272**	**13,342**	**13,395**	**13,534**	**982**

**Note: Forecasts include the impact of a boundary change. New students residing in a portion of the former Metzger area are assigned to C.F. Tigard beginning in 2016-17.*

Population Research Center, Portland State University, December 2017 (with January 2018 revision of Tigard HS and Tualatin HS forecasts).

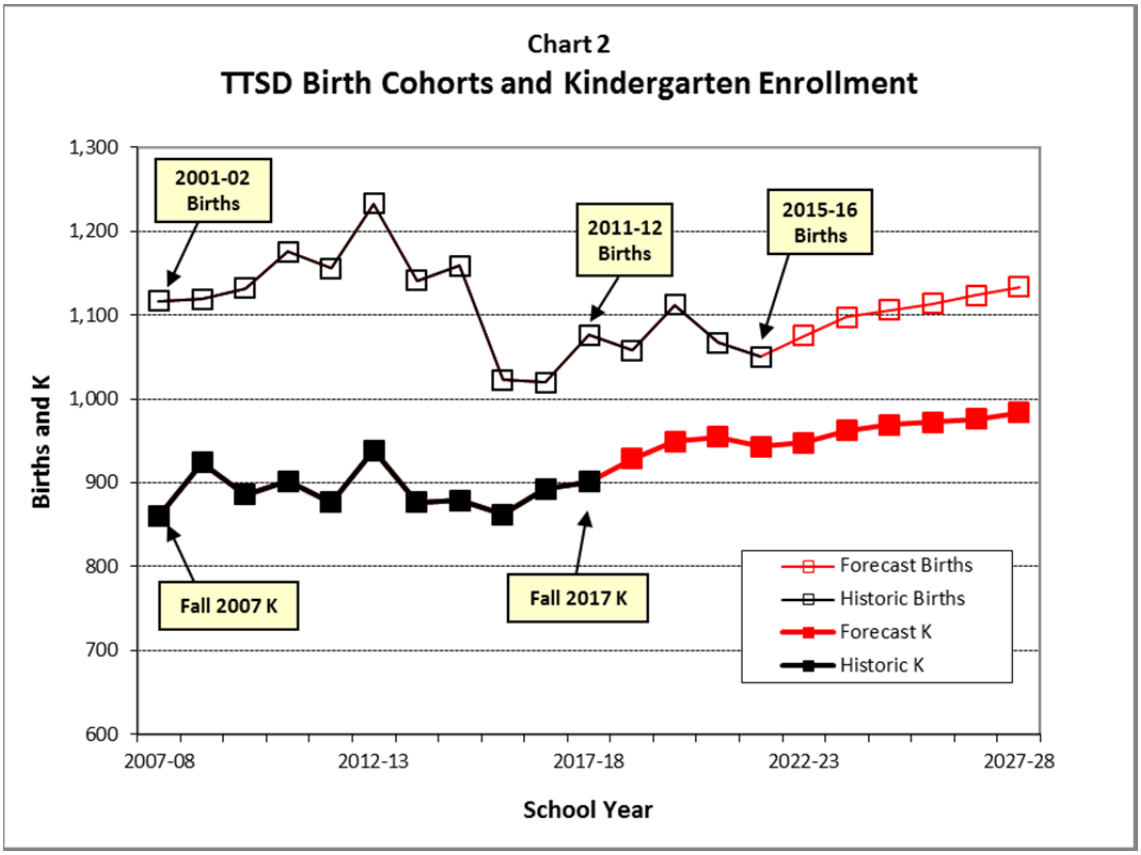

Chart 2
TTSD Birth Cohorts and Kindergarten Enrollment
1,300
1,200
1,100
1,000
900
800
700
600
Births and K
2001-02 Births
2011-12 Births
2015-16 Births
Fall 2007 K
Fall 2017 K
Forecast Births
Historic Births
Forecast K
Historic K
2007-08
2012-13
2017-18
2022-23
2027-28
School Year

Table 6 (CORRECTED)

Facility Capacity and Enrollment, 2016-17 and 2026-27

School	2017-18				2027-28	
	Capacity Excluding portables	Capacity Including Portables	2017-18 Enroll-ment[1]	Available Capacity (excluding portables)[2]	2027-28 Forecast Enroll-ment[1]	Available Capacity (excluding portables)[2]
Alberta Rider	624	624	559	65	806	-182
Bridgeport[H]	598	648	521	77	516	82
Byrom[H]	598	698	562	36	540	58
C.F. Tigard[H]	624	624	485	139	538	86
Deer Creek	598	648	611	-13	673	-75
Durham	598	598	552	46	549	49
Metzger[H]	624	724	665	-41	644	-20
Templeton	598	648	611	-13	642	-44
Tualatin[H]	624	624	535	89	526	98
Woodward	598	648	534	64	682	-84
Elementary Totals	**6,084**	**6,484**	**5,635**	**449**	**6,116**	**-32**
Fowler M.S.	1,000	1,000	801	199	955	45
Hazelbrook M.S.	1,000	1,040	970	30	960	40
Twality M.S.	942	1,084	1,066	-124	1,242	-300
Middle School Totals	**2,942**	**3,124**	**2,837**	**105**	**3,157**	**-215**
Tigard H.S.	1,776	1,898	1,960	-184	2,035	-259
Tualatin H.S.	1,888	1,888	1,998	-110	2,104	-216
High School Totals	**3,664**	**3,786**	**3,958**	**-294**	**4,139**	**-475**
Durham Center	105	105	50	55	50	55
District Totals[1]	**12,795**	**13,499**	**12,480**	**315**	**13,462**	**-667**

1. October 1 Enrollment. Does not include Tigard-Tualatin Online Academy.

2. 2017-18 Capacity without portables minus 2017-18 actual and 2027-28 forecast enrollment.

H. Headstart classroom location.

Sources: Tigard-Tualatin School District; PSU-PRC enrollment forecasts.

Table 7
Fall 2017 Enrollment Compared to Previous Forecasts
By Grade Level

		One year forecast[1]			Two year forecast[2]			Three year forecast[3]		
Grade	**Actual**	**Fcst.**	**Diff.**	**Error**	**Fcst.**	**Diff.**	**Error**	**Fcst.**	**Diff.**	**Error**
K	901	924	23	*2.6%*	908	7	*0.8%*	905	4	*0.4%*
1	936	911	-25	*-2.7%*	887	-49	*-5.2%*	889	-47	*-5.0%*
2	903	887	-16	*-1.8%*	906	3	*0.3%*	881	-22	*-2.4%*
3	916	934	18	*2.0%*	949	33	*3.6%*	942	26	*2.8%*
4	993	996	3	*0.3%*	1,004	11	*1.1%*	979	-14	*-1.4%*
5	986	1,011	25	*2.5%*	1,010	24	*2.4%*	1,018	32	*3.2%*
6	962	976	14	*1.5%*	993	31	*3.2%*	970	8	*0.8%*
7	945	939	-6	*-0.6%*	939	-6	*-0.6%*	964	19	*2.0%*
8	933	940	7	*0.8%*	958	25	*2.7%*	915	-18	*-1.9%*
9	993	1,005	12	*1.2%*	1,018	25	*2.5%*	1,011	18	*1.8%*
10	1,005	1,040	35	*3.5%*	1,021	16	*1.6%*	988	-17	*-1.7%*
11	1,026	1,028	2	*0.2%*	1,012	-14	*-1.4%*	1,004	-22	*-2.1%*
12	1,053	1,045	-8	*-0.8%*	1,056	3	*0.3%*	1,029	-24	*-2.3%*
Total	**12,552**	**12,636**	**84**	***0.7%***	**12,661**	**109**	***0.9%***	**12,495**	**-57**	***-0.5%***
MAPE[4]				***1.6%***			***2.0%***			***2.2%***

1. Forecast for 2017-18 by PSU-PRC, baseline 2016-17 enrollment. December 2016.

2. Forecast for 2017-18 by PSU-PRC, baseline 2015-16 enrollment. December 2015.

3. Forecast for 2017-18 by PSU-PRC, baseline 2014-15 enrollment. December 2014.

4. Mean absolute percent error for individual grades K-12.

Table 8

Fall 2017 Enrollment Compared to Previous Forecasts by Individual School

School	Actual	One year forecast[1]			Two year forecast[2]			Three year forecast[3]		
		Fcst.	Diff.	Error	Fcst.	Diff.	Error	Fcst.	Diff.	Error
Alberta Rider	559	578	19	*3.4%*	578	19	*3.4%*	592	33	*5.9%*
Bridgeport	521	506	-15	*-2.9%*	504	-17	*-3.3%*	527	6	*1.2%*
Byrom	562	571	9	*1.6%*	545	-17	*-3.0%*	513	-49	*-8.7%*
C. F. Tigard[4]	485	521	36	*7.4%*	576	91	*18.8%*	539	54	*11.1%*
Deer Creek	611	634	23	*3.8%*	619	8	*1.3%*	575	-36	*-5.9%*
Durham	552	533	-19	*-3.4%*	581	29	*5.3%*	596	44	*8.0%*
Metzger[4]	665	656	-9	*-1.4%*	646	-19	*-2.9%*	697	32	*4.8%*
Templeton	611	607	-4	*-0.7%*	570	-41	*-6.7%*	555	-56	*-9.2%*
Tualatin Elem.	535	539	4	*0.7%*	523	-12	*-2.2%*	547	12	*2.2%*
Woodward	534	518	-16	*-3.0%*	522	-12	*-2.2%*	473	-61	*-11.4%*
Elementaries	**5,635**	**5,663**	**28**	***0.5%***	**5,664**	**29**	***0.5%***	**5,614**	**-21**	***-0.4%***
Fowler	801	799	-2	*-0.2%*	782	-19	*-2.4%*	788	-13	*-1.6%*
Hazelbrook	970	979	9	*0.9%*	951	-19	*-2.0%*	908	-62	*-6.4%*
Twality	1,066	1,069	3	*0.3%*	1,146	80	*7.5%*	1,127	61	*5.7%*
Middle Schools	**2,837**	**2,847**	**10**	***0.4%***	**2,879**	**42**	***1.5%***	**2,823**	**-14**	***-0.5%***
Tigard HS	1,960	2,015	55	*2.8%*	1,960	0	*0.0%*	1,924	-36	*-1.8%*
Tualatin HS	1,998	1,967	-31	*-1.6%*	1,987	-11	*-0.6%*	1,981	-17	*-0.9%*
Durham Center	50	52	2	*4.0%*	46	-4	*-8.0%*	55	5	*10.0%*
Tig.-Tual. Online Acad.	72	92	20	*27.8%*	125	53	*73.6%*	98	26	*36.1%*
High Schools	**4,080**	**4,126**	**46**	***1.1%***	**4,118**	**38**	***0.9%***	**4,058**	**-22**	***-0.5%***
District	**12,552**	**12,636**	**84**	***0.7%***	**12,661**	**109**	***0.9%***	**12,495**	**-57**	***-0.5%***
MAPE[5]				***2.3%***			***3.1%***			***5.3%***

1. Forecast for 2017-18 by PSU-PRC, baseline 2016-17 enrollment. December 2016.

2. Forecast for 2017-18 by PSU-PRC, baseline 2015-16 enrollment. December 2015.

3. Forecast for 2017-18 by PSU-PRC, baseline 2014-15 enrollment. December 2014.

4. Beginning in Fall 2016, new students residing in a portion of the former Metzger area are assigned to C.F. Tigard. This change was not modeled in the three year forecasts.

5. Mean absolute percent error for individual schools, not including Durham Center or Tigard-Tualatin Online Academy. Elementary schools with boundary changes are also excluded from the two and three year forecast MAPEs.