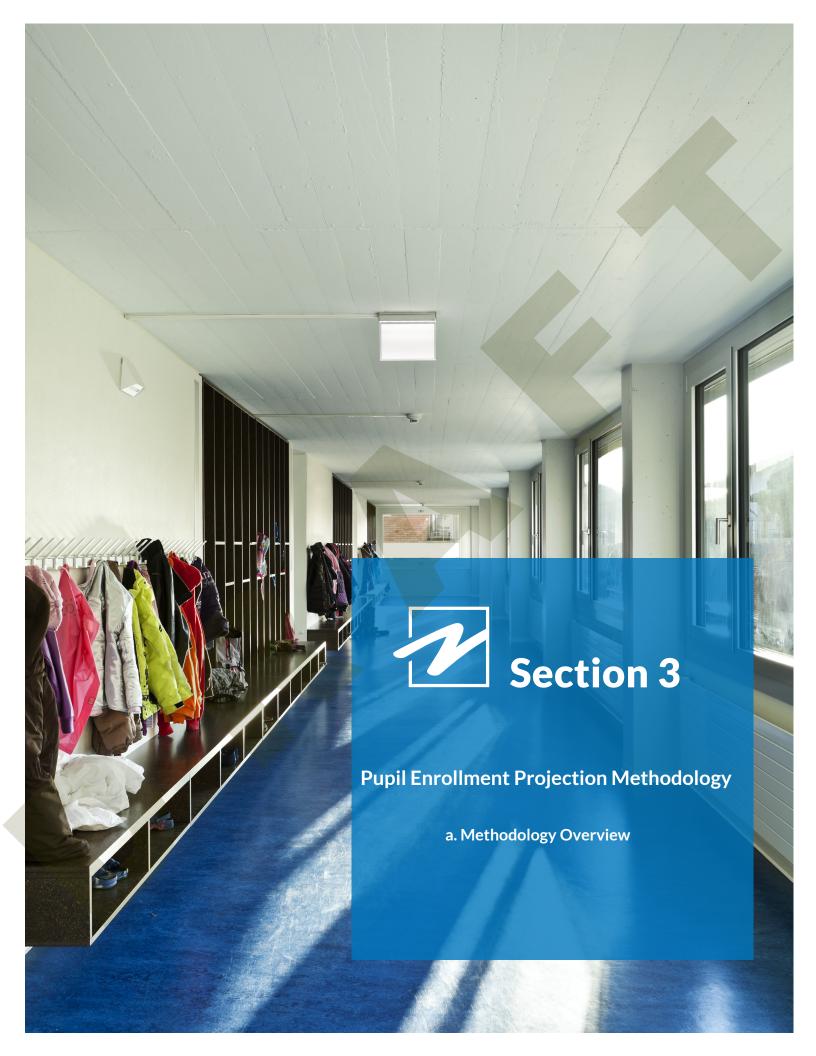
# **Pupil Enrollment**

Projection Study Report 2019-2023

Presented to Northville Public Schools

December, 2018





## Enrollment Projection Overview (District –Wide)

The following glossary provides a better understanding of the meaning and significance of the enclosed enrollment projection study report.

Plante Moran Cresa uses the standard Cohort Survival Method to project enrollments. The Method uses the historical survival ratios of your pupils from grade to grade to project future enrollment trends. The survival ratio compares the number of pupils in a particular grade last year against the number of pupils in the next advanced grade this year. For example, there were 100 first grade pupils last year and 112 second grade pupils this year; the survival ratio for last year's first grade class is 112%. Enrollment trends are then derived from these statistical data.

When projections are based on Full Time Equivalent (FTE) or Head counts as specified on the upper right of the table, the enrollment projections contain only mainstreamed Pre-kindergarten through 12th grade pupils. Special education pupils are included as general education pupils based on percentage of time spent in the general education classrooms (as Full Time Equivalent). Adult participants and special education pupils are not included in the historical data or projections. Historical pupil enrollment data is obtained from the Michigan Department of Education, Form DS-4061, for FTE, or from head counts provided by your school district.

County Births: This line shows the number of resident live births for the past 12 years in the county your school district is located. The live births are used to project by proportion the number of children born in your school district's county who will become pupils in your school district (K% Birth). The live births data is obtained from the Michigan Department of Public Health's Office of the State Registrar and Center for Health Statistics. Since the Department of Health cannot reasonably compile all the birth statistics from all counties for a particular year until at the earliest in the fourth quarter of the following year, the current year's number of live birth is therefore estimated.

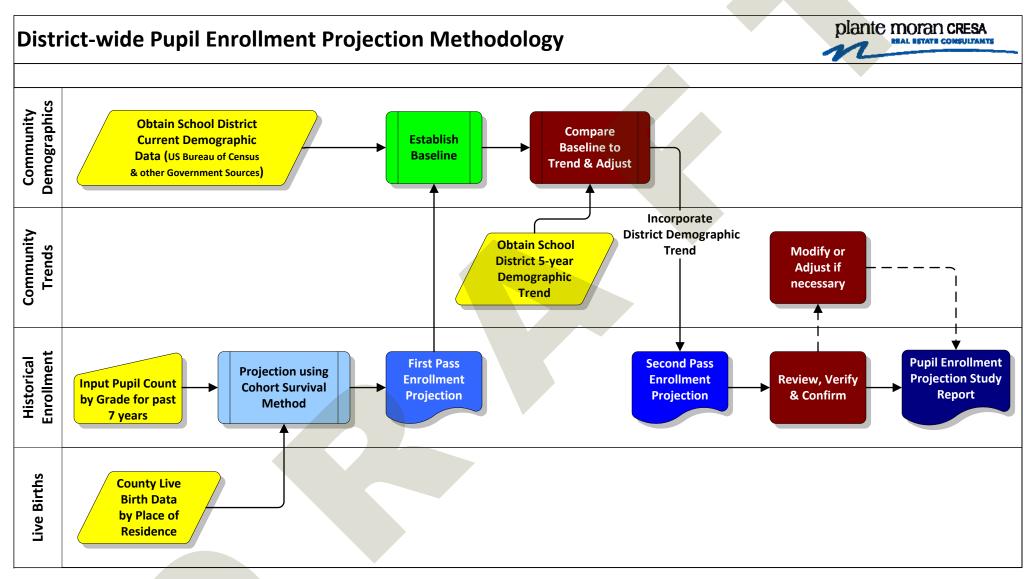
Historical Data columns show past pupil enrollment history in your school district. These columns list pupil enrollments by grade for the past 6 years plus the current year. The percentages under the pupil enrollment numbers are the survival ratios for the respective grades that year. Please be alert for unusual variations in the survival ratios when reviewing these numbers since they are trend indicators for your school district's pupil enrollment.

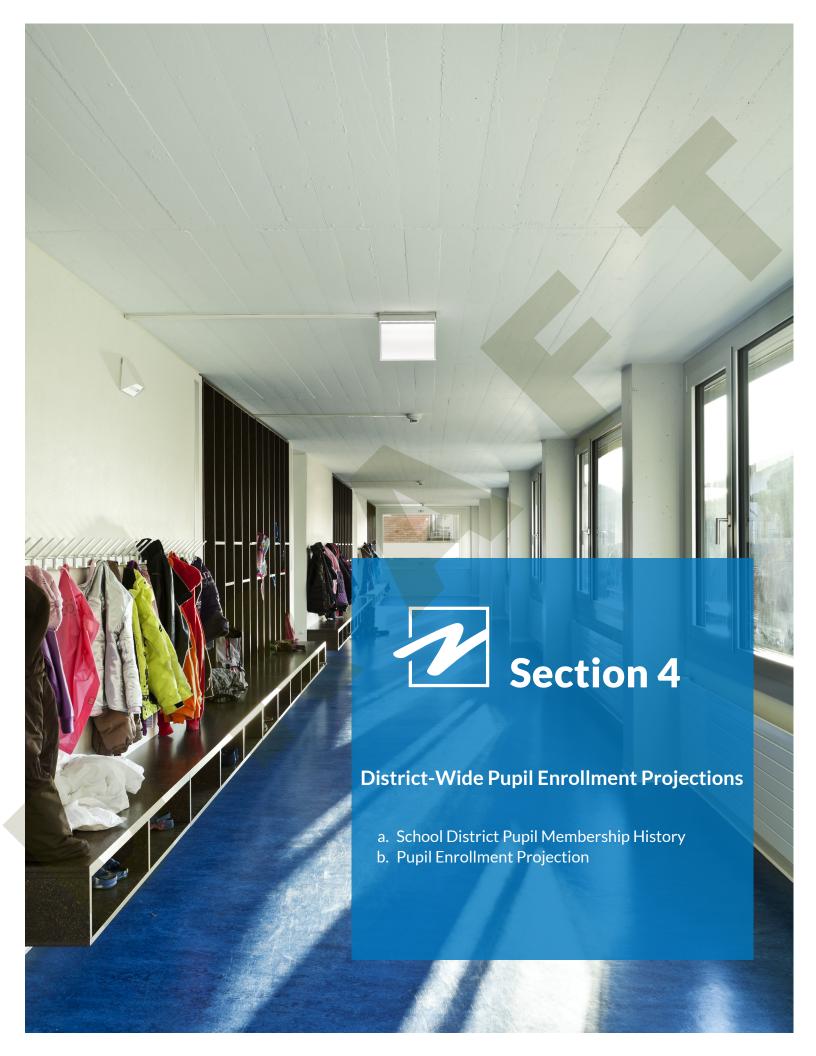
**Projection** applies the survival ratios for the past seven years in a particular grade and extends it out for the next five to ten years. The shaded area represents pupils projected from county live birth statistics. The clear portion represents pupils who are already enrolled in your school district. The enrollment projections do not account for closing or opening of a private or chartered school, consolidation, annexation, or re-zoning of your district in the future. Such out-of-the-ordinary occurrences must be accounted for separately.

**Grade Pattern:** The second page of the enrollment projection report sums up (compiles) pupil enrollment by grades into groups that corresponding with your school district's grade pattern or building configuration. It is a tool to identify potential facility utilization, for considering future grade pattern changes, and for planning of future school facilities, etc.

If you have questions regarding the enrollment projection report, please call our educational planning staff.

Paul R. Wills, AIA (248) 223-3316





#### **Northville Public Schools**

Wayne County, Michigan

K-12 Pupil Membership in General Education (Historical)

Please Indicate:

se Indicate: FTE DISTRICT WIDE (ALL PUPILS)

	Academic Year			Ad	ademic Year		Academic Year			Ac	ademic Year	Academic Year			
	<u>.</u>	<b>EXAMPLE</b>			<u>2011</u>			<u>2012</u>			<u>2013</u>			<u>2014</u>	
Grade	<u>Fall</u>	<u>Spring</u>	<u>Blended*</u>	<u>Fall 2011</u>	<u>Spring 2012</u>	<u>Blended*</u>	Fall 2012	<u>Spring 2013</u>	Blended*	Fall 2013	Spring 2014	<u>Blended*</u>	Fall 2014	<u>Spring 2015</u>	Blended*
K	399.99	400.36	400.03	456.29	458.49	453.54	399.99	406.91	405.84	476.63	479.23	469.66	422.61		428.27
1	392.74	356.00	389.07	495.30	490.36	495.55	517.92	524.29	515.16	442.38	449.41	450.57	495.77		491.13
2	365.44	401.59	369.06	532.45	535.57	529.65	507.44	514.69	510.25	537.54	538.44	535.26	468.01		475.05
3	363.78	364.16	363.82	516.26	525.23	518.01	549.12	548.89	546.73	539.93	538.99	540.83	538.32		538.39
4	405.88	379.90	403.28	538.68	539.76	538.91	540.10	539.82	540.07	566.54	566.18	563.87	543.54		545.80
5	393.37	411.83	395.22	551.97	554.76	550.14	558.64	560.65	558.25	555.88	551.95	556.36	579.23		576.50
6	417.67	400.83	415.99	556.47	557.08	558.53	580.19	587.59	577.88	583.14	582.37	583.59	562.10		564.13
7	456.24	433.70	453.99	587.99	598.05	585.83	570.99	570.61	573.70	589.02	590.83	587.18	592.88		592.68
8	447.58	468.44	449.67	567.97	573.29	568.22	601.73	602.04	598.89	576.07	580.24	578.67	596.65		595.01
9	441.51	463.37	443.70	546.58	550.57	551.38	566.60	562.94	565.00	568.64	569.22	568.07	560.98		561.80
10	466.92	427.62	462.99	594.88	592.71	588.93	553.65	546.89	557.56	574.89	573.79	572.09	568.17		568.73
11	409.34	464.51	414.86	531.83	528.34	527.54	586.82	581.92	580.97	547.09	545.11	550.57	577.30		574.08
12	412.68	402.56	411.67	492.83	485.47	499.94	531.44	531.15	526.84	578.89	573.94	574.12	547.65		550.28
K-12	5,373.14	5,374.87	5,373.31	6,969.50	6,989.68	6,966.17	7,064.63	7,078.39	7,057.14	7,136.64	7,139.70	7,130.82	7,053.21		7,061.86
SE	53.25	82.75	56.20	343.44	346.90	345.05	343.76	349.30	344.07	315.48	312.71	318.86	302.53		303.55
Total	5,472.14	5,507.60	5,475.69	7,312.94	7,336.58	7,311.22	7,408.39	7,427.69	7,401.21	7,452.12	7,452.41	7,449.68	7,355.74		7,365.41

	Academic Year <u>2015</u>			Academic Year <u>2016</u>			Academic Year <u>2017</u>			Ad	ademic Year <u>2018</u>	•	Academic Year  2019 Projected		
Grade	Fall 2015	<b>Spring 2016</b>	Blended*	Fall 2016	Spring 2017	Blended*	Fall 2017	<b>Spring 2018</b>	Blended*	Fall 2018	<b>Spring 2019</b>	Blended*	Fall 2019 Projected	<b>Spring 2020</b>	Blended*
K	437.38			438.66			377.11			399.69			406.47		
1	462.15			454.83			471.18			399.90			429.08		
2	527.29			480.56			477.58			490.58			421.06		
3	511.01			545.65			508.18			465.44			511.12		
4	571.18			525.45			565.41			521.80			482.33		
5	570.65			577.47			536.85			581.53			538.30		
6	618.21			601.42			600.73			551.00			607.69		
7	592.40			630.41			624.54			612.34			568.48		
8	608.19			596.22			631.15			615.30			619.23		
9	575.96			624.61			596.52			618.46			606.95		
10	572.08			586.84			628.20			614.52			630.36		
11	564.14			574.78			605.14			637.97			621.04		
12	588.15			568.78			581.55			600.83			642.88		
K-12	7,198.79			7,205.68			7,204.14			7,109.36			7,084.97		
SE	282.60			279.40			277.99			263.94			270.41		
Total	7,481.39			7,485.08			7,482.13			7,373.30			7,355.39		

Note: \* Pupil Blended Count membership (number) is calculated based on 90% of Fall count & 10% of Spring count of a Calendar year.

Source: Office of Pupil Accounting, Northville Public Schools

#### **ENROLLMENT PROJECTION USING COHORT SURVIVAL METHOD**

#### & Adjusted to Community Demographic Trends

**Educational Agency Name: Northville Public Schools** 

County: Wayne

BASED ON 2018 FALL FTE

**DISTRICT WIDE (ALL PUPILS)** 

Birth Yr	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 Y
Births	26,356	25,624	24,647	24,169	23,726	23,109	23,612	23,366	23,486	23,146	23,333	23,322 b
K% Birth	1.52%	1.86%	1.71%	1.81%	1.85%	1.63%	1.69%	1.74%	1.74%	1.73%	1.71%	1.72%

Year 2017/2018 Number of Live Births is an average based on past 3 years - data that may change.

Anticipated Non-historical Factor: 0.45%

	Historical Data								Projection Data									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Grade	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
K	400	477	423	437	439	377	400	406	410	401	399	402	N.A.	N.A.	N.A.	N.A.	N.A.	
1	518	442	496	462	455	471	400	429	436	440	430	428	431	N.A.	N.A.	N.A.	N.A.	
		110.60%	104.02%	109.36%	103.99%	107.41%	106.04%	107.35%	107.35%	107.35%	107.35%	107.35%	107.35%	107.35%	107.35%	107.35%	107.35%	
2	507	538	468	527	481	478	491	421	452	459	463	453	450	454	N.A.	N.A.	N.A.	
		103.79%	105.79%	106.36%	103.98%	105.00%	104.12%	105.29%	105.29%	105.29%	105.29%	105.29%	105.29%	105.29%	105.29%	105.29%	105.29%	
3	549	540	538	511	546	508	465	511	439	471	479	483	472	469	473	N.A.	N.A.	
		106.40%	100.15%	109.19%	103.48%	105.75%	97.46%	104.19%	104.19%	104.19%	104.19%	104.19%	104.19%	104.19%	104.19%	104.19%	104.19%	
4	540	567	544	571	525	565	522	482	530	455	488	496	500	489	486	490	N.A.	
		103.17%	100.67%	106.10%	102.83%	103.62%	102.68%	103.63%	103.63%	103.63%	103.63%	103.63%	103.63%	103.63%	103.63%	103.63%	103.63%	
5	559	556	579	571	577	537	582	538	498	546	469	503	512	516	505	502	506	
		102.92%	102.24%	104.99%	101.10%	102.17%	102.85%	103.16%	103.16%	103.16%	103.16%	103.16%	103.16%	103.16%	103.16%	103.16%	103.16%	
6	580	583	562	618	601	601	551	608	563	520	571	490	526	535	539	527	524	
		104.39%	101.12%	106.73%	105.39%	104.03%	102.64%	104.50%	104.50%	104.50%	104.50%	104.50%	104.50%	104.50%	104.50%	104.50%	104.50%	
7	571	589	593	592	630	625	612	568	627	580	536	589	506	543	552	556	544	
		101.52%	101.67%	105.39%	101.97%	103.84%	101.93%	103.17%	103.17%	103.17%	103.17%	103.17%	103.17%	103.17%	103.17%	103.17%	103.17%	
8	602	576	597	608	596	631	615	619	575	634	587	542	596	511	549	558	562	
		100.89%	101.30%	102.58%	100.64%	100.12%	98.52%	101.13%	101.13%	101.13%	101.13%	101.13%	101.13%	101.13%	101.13%	101.13%	101.13%	
9	567	569	561	576	625	597	618	607	611	567	625	579	535	588	504	541	550	
		94.50%	97.38%	96.53%	102.70%	100.05%	97.99%	98.64%	98.64%	98.64%	98.64%	98.64%	98.64%	98.64%	98.64%	98.64%	98.64%	
10	554	575	568	572	587	628	615	630	619	623	578	637	590	545	599	514	552	
		101.46%	99.92%	101.98%	101.89%	100.57%	103.02%	101.92%	101.92%	101.92%	101.92%	101.92%	101.92%	101.92%	101.92%	101.92%	101.92%	
11	587	547	577	564	575	605	638	621	637	625	629	584	644	596	551	605	520	
		98.82%	100.42%	99.29%	100.47%	103.12%	101.56%	101.06%	101.06%	101.06%	101.06%	101.06%	101.06%	101.06%	101.06%	101.06%	101.06%	
12	531	579	548	588	569	582	601	643	626	642	630	634	589	649	601	555	610	
		98.65%	100.10%	101.88%	100.82%	101.18%	99.29%	100.77%	100.77%	100.77%	100.77%	100.77%	100.77%	100.77%	100.77%	100.77%	100.77%	
K-12	7,065	7,137	7,053	7,199	7,206	7,204	7,109	7,085	7,020	6,963	6,884	6,821	N.A.	N.A.	N.A.	N.A.	N.A.	
Year-to-Year	r #Growth:	72	-83	146	7	-2	-95	-24	-65	-58	-79	-64						

Note: K-12 General Education Pupil Enrollment history and projections DO NOT include self-contained special education, alternative education or part-time students (in FTE's).

-1.32%

264

7,373

-0.02%

278

7,482

344

7,408

Year-to-Year %Growth:

Spec. Ed

Totals

1.02%

315

7,452

-1.17%

303

7,356

2.06%

283

7,481

0.10%

279

7,485

-0.34%

270

7,355

-0.91%

268

7,288

-0.82%

266

7,229

-1.13%

263

7,147

-0.92%

260

7,081

Projections for special education pupils are based on 3-

year averaging trend, projections for Pre-K are based on

current year trend, neither are affected by community

#### ENROLLMENT PROJECTION USING COHORT SURVIVAL METHOD

& Adjusted to Community Demographic Trends

#### **Northville Public Schools**

BASED ON 2018 FALL FTE
DISTRICT WIDE (ALL PUPILS)

**Grade Pattern Compilation** 

**Historical Data Projection Data** 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 Grade 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 Pattern 918 919 918 900 800 836 846 841 830 N.A K-1 893 848 829 N.A. N.A. N.A. N.A. K-2 1,425 1,457 1,386 1,427 1,374 1,326 1,290 1,257 1,298 1,300 1,292 1,283 N.A. N.A. N.A. N.A. N.A 1,974 1,996 1,925 1,920 1,756 1,768 1,737 1,771 1,765 N.A. N.A K-3 1,938 1,834 1,771 N.A. N.A. N.A. K-4 2,515 2,563 2,468 2,509 2,445 2,399 2,277 2,250 2,266 2,225 2,258 2,261 N.A. N.A. N.A. N.A. N.A K-5 3,073 3,119 3,047 2,936 2,859 2,788 2,764 2,772 2,727 2,764 N.A. N.A. N.A 3,080 3,023 N.A. N.A. K-6 3,653 3,702 3,610 3,698 3,624 3,537 3,410 3,396 3,326 3,292 3,298 3,255 N.A. N.A. N.A. N.A. N.A 888 N.A 1-2 1,025 980 964 989 935 949 890 850 899 893 881 882 N.A. N.A. N.A. 1-3 1,574 1,520 1.502 1,500 1,481 1,457 1,356 1,361 1,327 1.370 1.372 1,363 1,354 N.A. N.A. N.A. N.A 1-4 2,115 2,086 2,046 2,072 2,006 2,022 1,878 1,844 1,856 1,825 1,860 1,859 1,854 N.A. N.A. N.A. N.A 1-5 2,673 2,642 2,625 2,642 2,584 2,559 2,459 2,382 2,354 2,371 2,329 2,363 2,366 N.A. N.A. N.A. N.A 3,253 3,010 2,990 2,917 N.A 1-6 3,225 3,187 3,260 3,185 3,160 2,891 2,900 2,853 2,891 N.A. N.A N.A. 2-3 1,057 1.077 1.006 1.038 1,026 986 956 932 890 930 942 936 922 924 N.A. N.A. N.A 2-4 1,597 1,551 1,478 1,415 1,420 1,422 N.A 1,644 1,550 1,609 1,552 1,385 1,430 1,432 1,413 N.A. N.A. 1.953 1.918 2-5 2,155 2.200 2.129 2.180 2.129 2.088 2.059 1.931 1.899 1.935 1,934 1.929 N.A. N.A. N.A 2-6 2,735 2,783 2,691 2,798 2,731 2,689 2,610 2,560 2,480 2,451 2,470 2,425 2,460 2,463 N.A N.A. N.A 968 3-4 1.089 1.106 1.082 1.082 1.071 1.074 987 993 925 966 979 972 958 960 N.A. N.A 3-5 1,648 1,662 1,569 1,532 1,466 1,472 1,435 1,482 1,484 1,474 1,464 N.A. N.A 1,661 1,653 1,649 1,610 3-6 2,228 2,245 2.223 2.271 2,250 2.211 2,120 2,139 2.028 1.992 2.006 1.972 2,010 2.009 2.003 N.A. N.A 4-5 1,099 1,122 1,123 1,142 1,103 1,102 1,103 1,021 1,027 1,001 957 999 1,012 1,005 991 992 N.A 4-6 1.679 1.706 1.685 1.760 1,704 1.703 1.654 1.628 1,590 1.521 1,528 1,489 1,538 1.540 1,530 1,519 N.A 1,179 1,030 5-6 1,139 1,139 1,141 1,189 1,138 1,133 1,146 1,060 1,066 1,040 993 1,038 1,051 1,044 1,029 5-7 1.710 1.728 1.734 1.781 1.809 1.762 1,745 1.714 1.687 1.647 1,576 1,582 1.543 1.593 1.595 1.585 1,574 5-8 2,312 2,304 2,331 2,389 2,406 2,393 2,360 2,334 2,262 2,281 2,163 2,125 2,139 2,104 2,144 2,143 2,137 6-7 1.189 1.068 1.151 1.172 1.155 1.211 1.232 1.225 1.163 1.176 1.100 1.107 1.079 1.031 1.077 1.091 1.083 1,753 1,748 1,828 1,779 1,795 1,764 1,622 1,589 1,639 1,631 6-8 1,752 1,819 1,856 1,734 1,694 1,627 1,641 7-8 1,173 1,165 1,190 1,201 1,227 1,256 1,228 1,188 1,202 1,214 1,123 1,132 1,101 1,054 1,100 1,114 1,106 1,655 7-9 1,739 1,734 1,751 1,777 1,851 1,846 1,795 1,813 1,781 1,711 1,641 1,605 1,657 1,852 1,749 1,636 7-10 2,293 2,309 2,319 2,349 2,438 2,480 2,461 2,425 2,431 2,404 2,327 2,348 2,227 2,187 2,204 2,169 2,208 2,728 7-11 2,880 2,856 2,896 2,913 3,013 3,086 3,099 3,046 3,068 3,029 2,956 2,932 2,871 2,783 2,755 2,775 3,699 7-12 3,411 3,435 3.444 3,501 3,582 3,667 3.689 3,694 3,671 3,586 3,566 3,459 3,432 3,356 3,330 3,338 8-9 1,168 1,145 1,158 1,184 1,221 1,228 1,234 1,226 1,186 1,201 1,212 1,121 1,131 1,099 1,053 1,099 1,113 8-10 1.722 1.720 1.726 1.756 1.808 1.856 1.848 1.857 1.804 1.824 1.790 1.759 1.721 1.644 1.652 1.613 1.664 2,309 2,267 2,303 2,382 2,461 2,486 2,478 2,441 2,419 2,343 2,365 2,241 2,203 2,184 8-11 2,320 2,449 2,218 8-12 2,840 2,846 2,851 2,909 2,951 3,043 3,087 3,120 3,067 3,091 3,049 2,977 2,954 2,890 2,804 2,774 2,794 1,120 1,129 1,211 1,225 1,233 1,237 1,229 1,203 1,216 1.125 1,133 1,103 1,055 1.102 9-10 1.144 1,148 1,190 9-11 1,707 1,691 1,706 1,712 1,786 1,830 1,871 1,858 1,866 1,815 1,833 1,800 1,769 1,729 1,655 1,661 1,621 2,231 9-12 2,239 2,270 2,254 2,300 2,355 2,411 2,472 2,501 2,492 2,457 2,463 2,434 2,358 2,379 2,255 2,216

1,701

1,693

1,724

1,730

1,815

1,853

1,672

10-12

1,881

1,890

1,837

1,856

1,823

1,791

1,751

1,894

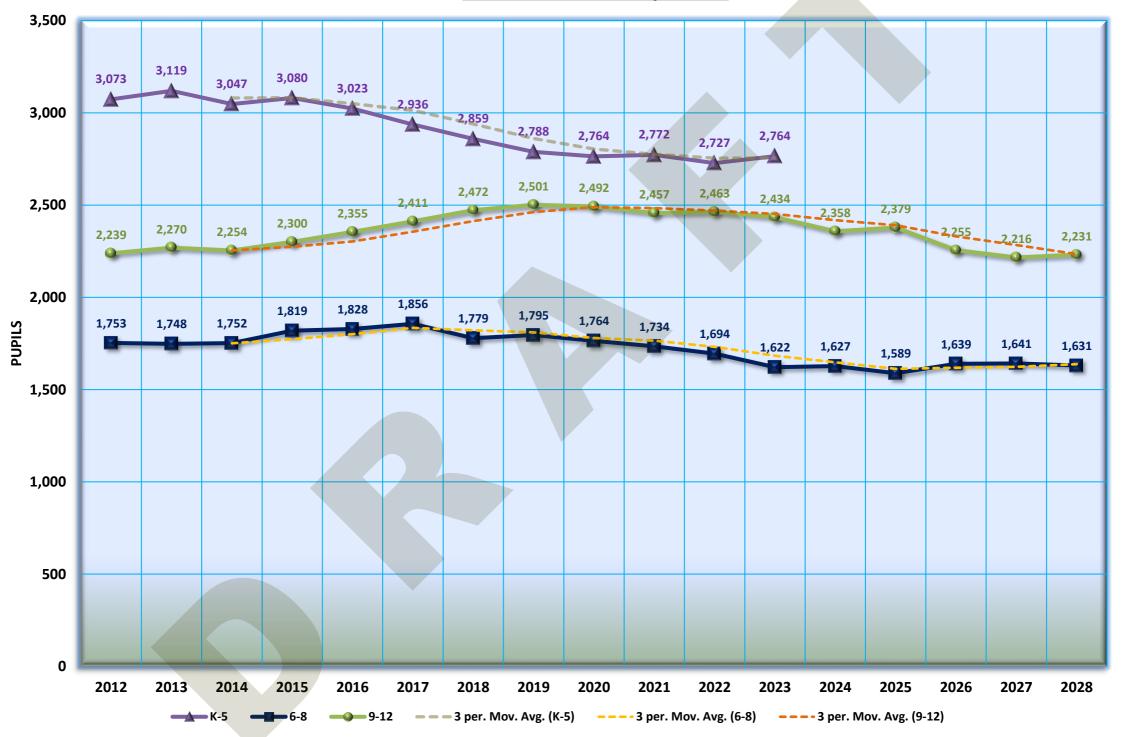
1,675

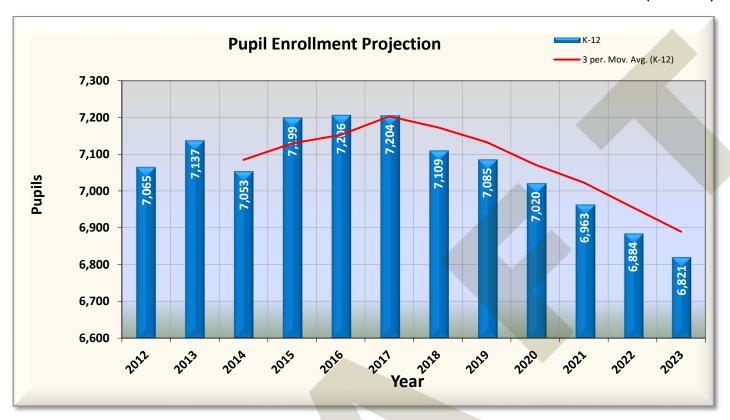
1,681

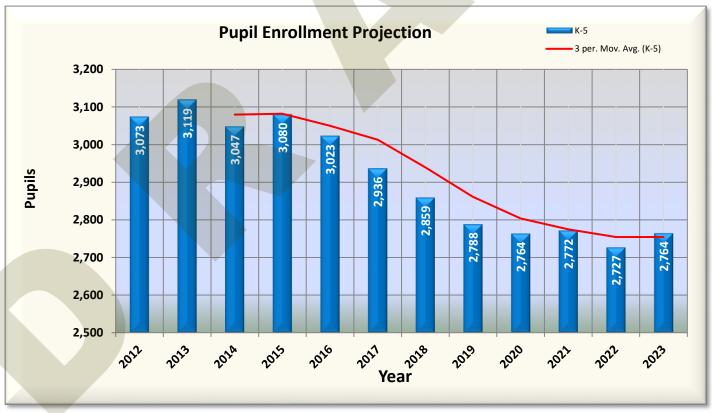
Northville Public Schools

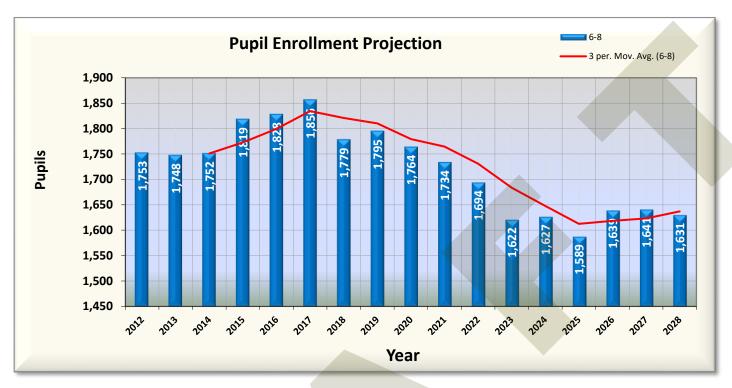
<u>DISTRICT WIDE (ALL PUPILS)</u>

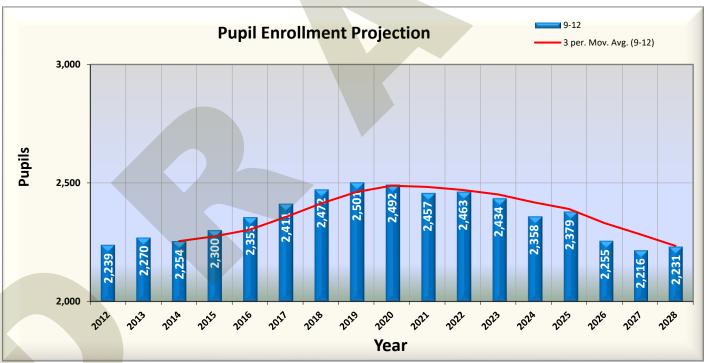
### **Grade Pattern Compilation**













For more information, please contact:

Paul Wills, AIA, LEED AP Partner 248 223-3316