

- Based on Cohort Survival Methodology Standard Method for Enrollment Projections & Accepted by CSDE School Construction Projects (CGS 10-283)
- The Cohort Survival Methodology Relies on <u>Observed Data</u>
 <u>from the Recent Past in Order to Predict the Near Future</u>
- Methodology Works Well for Stable Populations, Including Communities That Are Growing or Declining at a Steady Rate
- Recent Instability in Economic Climate Difficult Time to Predict Enrollment



Persistency Ratios

- Persistency Ratios Calculated From Historic Enrollment Data to Determine Growth or Loss in a Class as It Progresses Through School System
- Persistency Ratios Account for the Various External Factors
 Affecting Enrollments: Housing Characteristics, Residential Development, Economic Conditions, Student Transfers In and Out of System, and Student Mobility
- Persistency Ratio of 1.0 Means Class Size Remains the Same; 1.05 Means the Class Size Increases by 5%, or a Class of 100 Grows to 105 the Following Year
- Changes in Population, Housing Stock and Tenure, and Economic Conditions Help Explain Persistency Ratios



		2001-02 to 2013-14														
SWOE	Year	Birth-K	K-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	Est. Migra- tion ¹	Pers. Avg
137	2002-03	1.500	1.046	1.012	1.022	1.018	1.009	1.033	0.984	1.008	0.965	0.944	0.949	0.948	1.3%	1.034
	2003-04	1.642	1.008	1.013	1.027	1.034	1.013	1.021	0.995	1.063	1.000	0.959	1.020	0.941	2.5%	1.057
	2004-05	1.314	1.040	1.012	1.048	1.027	1.029	1.039	1.013	1.019	0.955	0.989	1.014	0.985	2.9%	1.037
	2005-06	1.427	1.049	1.026	1.000	1.046	0.970	1.020	0.988	1.025	0.959	1.005	0.969	0.953	0.7%	1.034
	2006-07	1.477	1.000	0.988	1.012	1.032	0.972	1.008	0.988	0.979	0.980	0.938	1.046	0.949	-0.1%	1.028
	2007-08	1.197	1.028	1.016	1.016	1.025	1.004	1.000	1.008	0.980	0.991	0.971	1.010	0.901	0.5%	1.011
	2008-09	1.328	0.992	1.023	0.992	0.984	1.008	0.988	1.029	1.004	0.947	0.987	1.008	1.000	0.1%	1.022
	2009-10	1.426	1.038	1.017	1.009	1.000	0.984	1.020	1.016	1.024	0.959	0.974	1.009	0.958	0.9%	1.033
	2010-11	1.226	1.005	1.018	1.012	0.978	0.945	0.984	0.996	0.961	0.934	0.965	1.018	0.961	-2.1%	1.000
	2011-12	1.333	1.016	0.995	0.996	1.000	1.005	1.008	0.984	0.969	0.891	0.933	1.000	0.970	-0.7%	1.008
	2012-13	1.082	1.041	1.005	1.000	0.995	1.000	0.955	0.988	0.975	0.883	0.941	1.031	0.988	-1.5%	0.991
	2013-14	1.140	1.063	1.034	0.974	1.020	1.009	0.980	1.009	0.979	0.881	1.000	1.014	0.965	-0.5%	1.005
Long	Term Average	1.3409	1.0271	1.0132	1.0091	1.0132	0.9957	1.0047	0.9998	0.9988	0.9454	0.9672	1.0075	0.9600		
Last	5-Yr Average	1.2414	1.0324	1.0138	0.9983	0.9987	0.9886	0.9893	0.9985	0.9817	0.9095	0.9627	1.0144	0.9684		
	3-Yr Average	1.1852	1.0397	1.0113	0.9900	1.0051	1.0045	0.9809	0.9936	0.9744	0.8850	0.9582	1.0152	0.9743		
3-Ye	ear Weighted	1.1529	1.0475	1.0177	0.9865	1.0084	1.0053	0.9761	0.9979	0.9761	0.8833	0.9693	1.0176	0.9736		

Kindergarten through 12th Grade Persistency Ratios by School Year

Source: Calculated by MMI from State Department of Education, Public School Information System (2001-02 to 2010-11), Tolland Public Schools 12-13 and 13-14, and CT Department of Public Health (CT DPH) Birth Data.

- Persistency Above 1 = in-migration; student moved in or transferred in from non-public, or was retained
- Persistency Below 1 = out-migration; student moved out or transferred out to non-public



¹ Derived from the comparison of 3-8 enrollment aggregate one year with the 2-7 aggregate from the prior year



Projections Building Blocks

- Starting Data Used in Projections Are Critical to Overall Accuracy, as Each Year Builds Upon the Last
 - Students in the System Progressed Forward
 - CT Department of Public Health Birth Records
 - Historic Enrollment Trends
- Develop Several Projection Models Applying Different Persistency Ratios to Building Blocks
- Census, Housing, Economic Data & Planning Initiatives Informs Model Selection

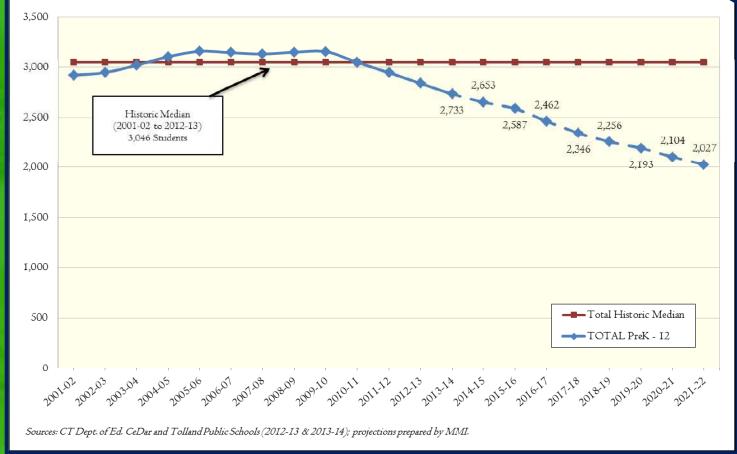




DI	DISTRICTWIDE ENROLLMENT PROJECTIONS BY GRADE (2014-15 to 2021-22)																
School Year	Birth Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	PK	PK-12 Total
2014-15	2008	143	178	168	172	184	191	203	221	239	210	215	199	222	204	48	2,653
2015-16	2009	138	171	183	171	172	183	189	200	220	234	191	207	202	215	48	2,587
2016-17	2010	99	123	177	186	170	172	181	187	200	216	213	184	210	196	48	2,462
2017-18	2011	91	113	127	179	185	170	170	179	186	197	197	205	187	203	48	2,346
2018-19	2012	116	144	117	129	179	185	168	168	179	183	179	189	208	181	48	2,256
2019-20	2013	117	146	149	118	128	179	183	166	168	176	166	172	192	201	48	2,193
2020-21	2014	112	139	150	151	118	128	177	181	166	165	160	160	175	186	48	2,104
2021-22	2015	107	133	144	153	150	118	127	175	181	163	150	154	162	169	48	2,027
Five Average Persistency Ratios																	



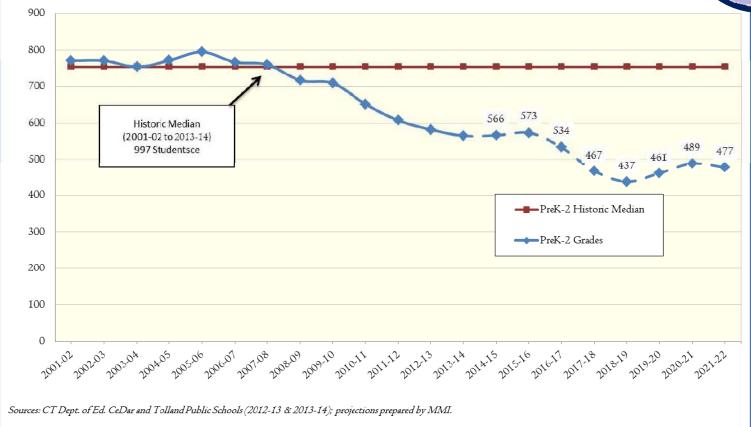
Enrollment Projections Tolland Public Schools, PreK - 12th Grade 2001-02 to 2021-22





Enrollment Projections Tolland Public Schools, PreK - 2rd Grade 2001-02 to 2021-22

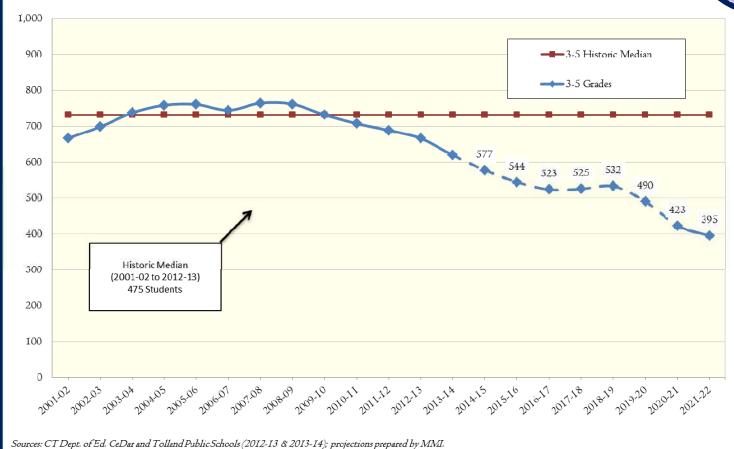




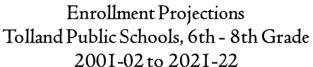


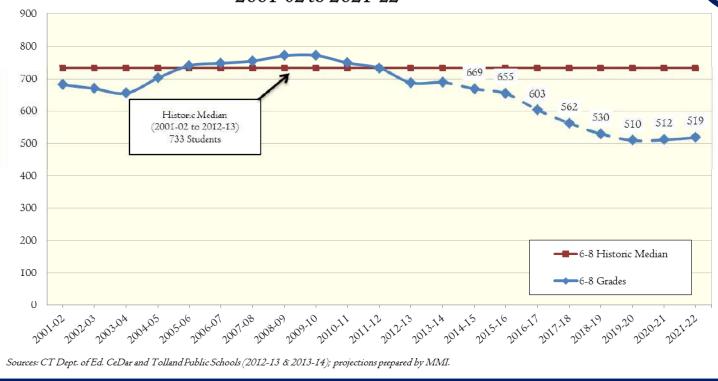
Enrollment Projections Tolland Public Schools, 3th - 5th Grade 2001-02 to 2021-22













Enrollment Projections Tolland Public Schools, 9th - 12th Grade 2001-02 to 2021-22

