


Projecting Granby Kindergarten Enrollment

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The Problem:

My 2021 projection of Kindergarten enrollment in October 2022 was 131 children.

Earlier this summer the superintendent was concerned that only 95 students were registered.

Projecting Kindergarten Standard Model

- Kindergarten projected from history of births five years prior

Projecting Kindergarten

My Model

Kindergarten projected from:

- Students entering at standard age
- Students entering at age six
- Students retained from prior year

History of Kindergarten Enrollment

Year	Birth Year	Births	K	Retained	----- Non-Retained -----			Percent	Yield	Yield	Total
				From Prior Year	Born 5-Years Prior Resident	Non-Resident	Born 6 Years Prior	Retained	From Births 5-Years Prior	From Births 6-Years Prior	From Birth Cohort
2011	2006	98	111	0	94	6	11	0.0%	95.9%	10.7%	116.3%
2012	2007	87	113	0	83	10	20	0.0%	95.4%	20.4%	110.3%
2013	2008	105	109	4	83	9	13	3.5%	79.0%	14.9%	102.9%
2014	2009	88	122	1	88	8	25	0.9%	100.0%	23.8%	114.8%
2015	2010	69	110	0	86	11	13	0.0%	124.6%	14.8%	143.5%
2016	2011	79	93	3	72	5	13	2.7%	91.1%	18.8%	119.0%
2017	2012	80	119	2	85	10	22	2.2%	106.3%	27.8%	130.0%
2018	2013	59	113	1	86	7	19	0.8%	145.8%	23.8%	162.7%
2019	2014	72	121	4	96	11	10	3.5%	133.3%	16.9%	150.0%
2020	2015	81	106	4	83	7	12	3.3%	108.6%	16.7%	139.5%
2021	2016	78	125	0	89	6	25	0.0%	115.4%	30.9%	139.1%
2022	2017	83	95								
3-Year Average								2.4%	116.5%	22.2%	142.9%
Weighted 3-Year Average								1.7%	116.1%	23.8%	141.1%
5-Year Average								2.0%	118.9%	23.7%	144.3%
Weighted 5-Year Average								1.8%	120.6%	23.1%	143.9%
2017, 2018, 2019,2021								1.6%	125.2%	24.9%	145.5%
25-year Median											130.0%

Projection Outcomes

Kindergarten Enrollment

Decrease

Increase

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Decrease



Increase

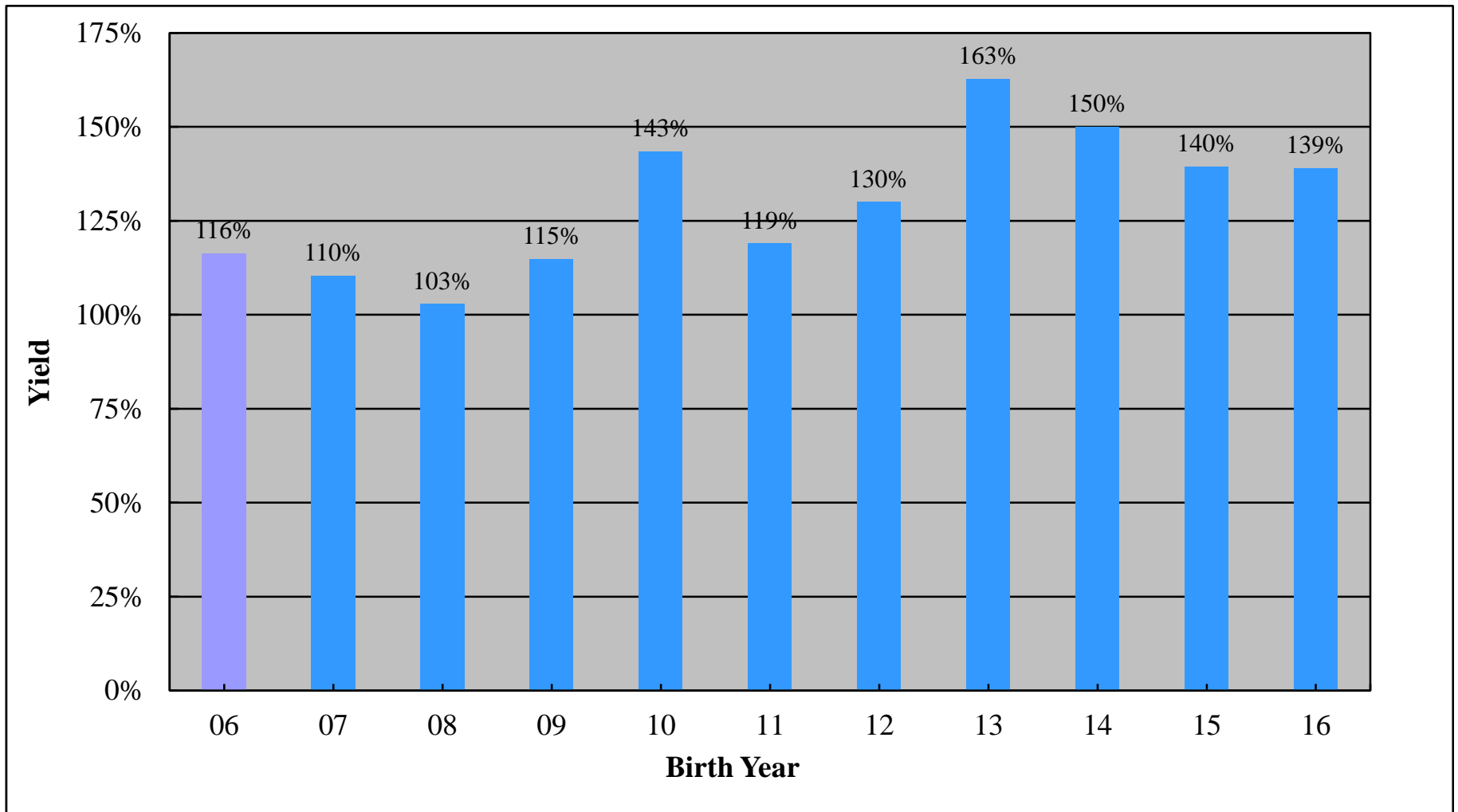


Projection Factors

Kindergarten in October 2022 = Births in 2017 – infant deaths 2017- child deaths 2018 - child deaths 2019 - child deaths 2020 - child deaths 2021 - child deaths 11/2022-10/1/2022 + 1-yr-olds moving in 2018 + 2-yr-olds moving in 2019 + 3-yr-olds moving in 2020 + 4-yr-olds moving in 2021 + 5-yr-olds moving in 1/1/2022-10/1/2022 - 1-yr-olds moving out 2018 - 2-yr-olds moving out 2019 - 3-yr-olds moving out 2020 - 4-yr-olds moving out 2021 - 5-yr-olds moving out 1/1/2022-10/1/2022 - 5-year-olds delaying entry + 6-yr olds entering for first time - 5-yr-olds home schooled - 5-yr-olds attending non-public schools - 5-yr-olds attending magnet schools.

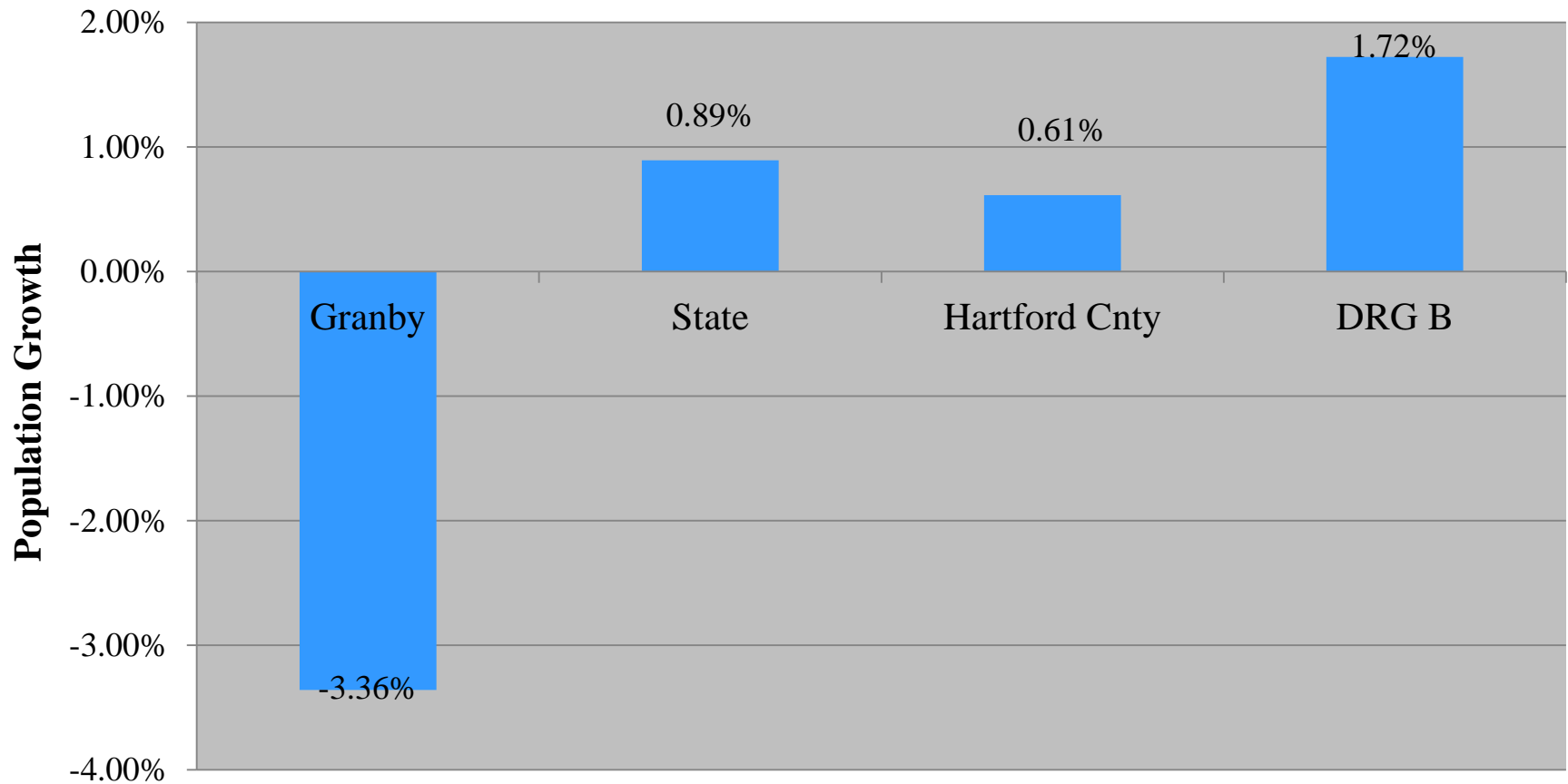
Projection Factors

Birth to Kindergarten Growth



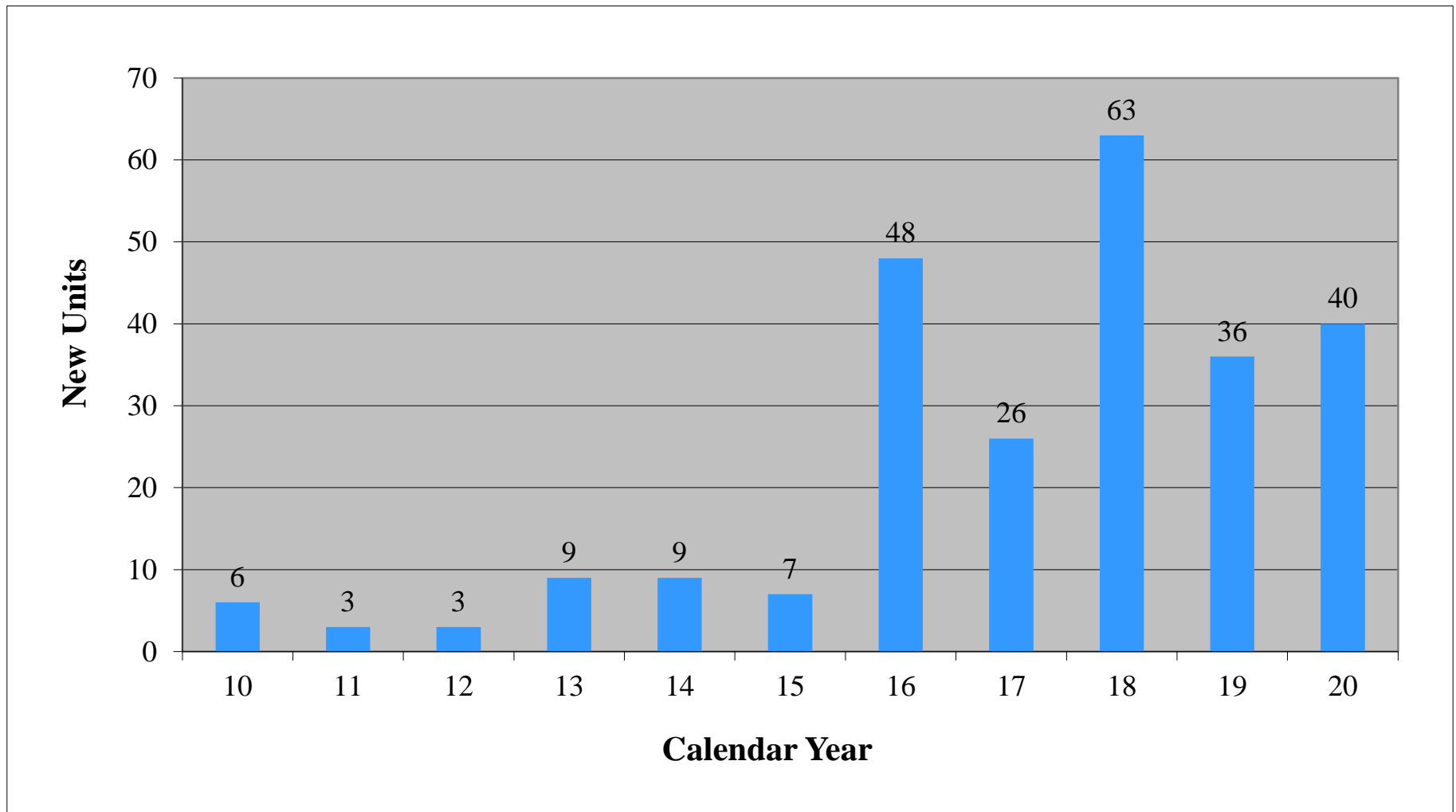
Contributing Factors

Town Population Growth 2010-20

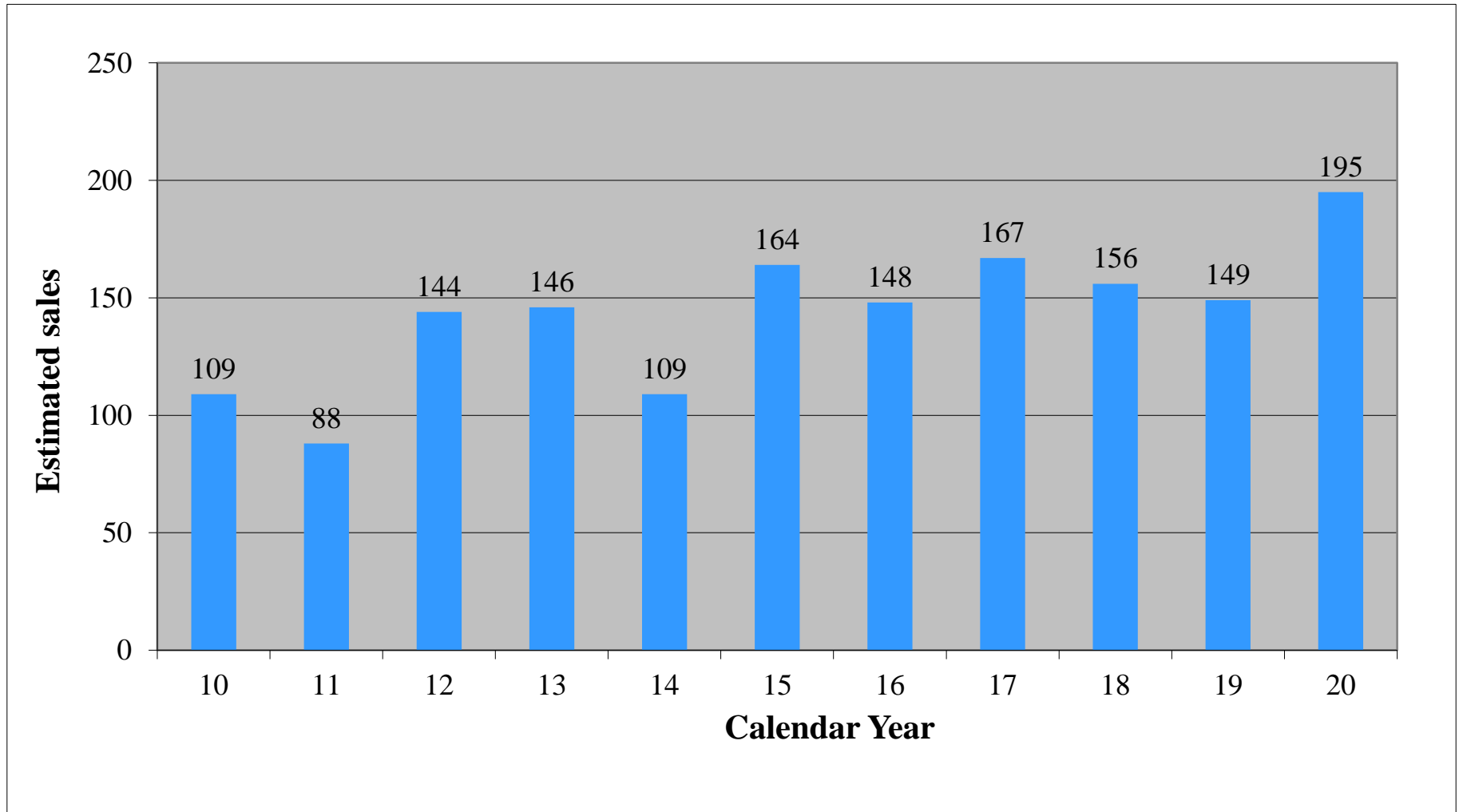


Contributing Factors

Net New Housing Units

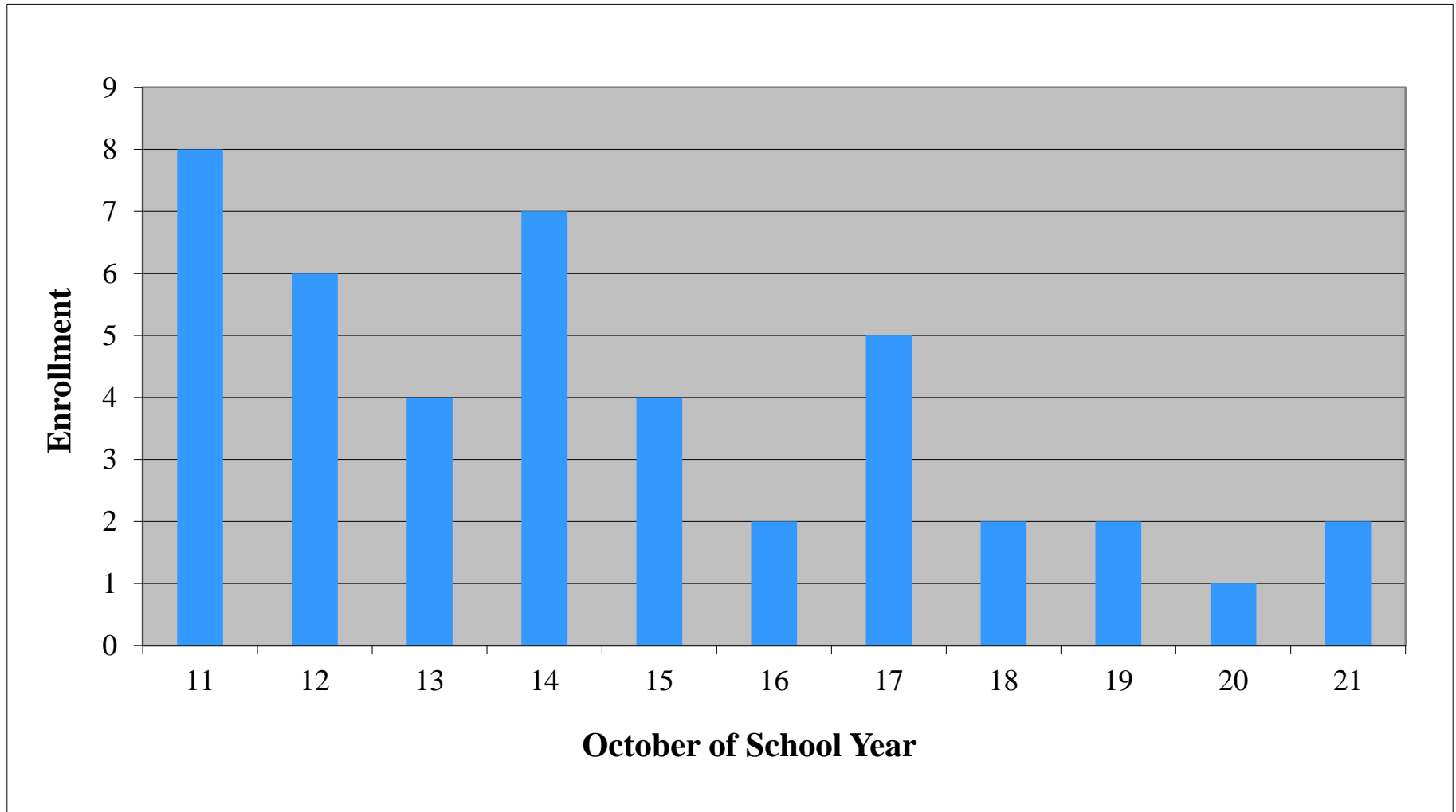


Estimated Sales of Existing Units



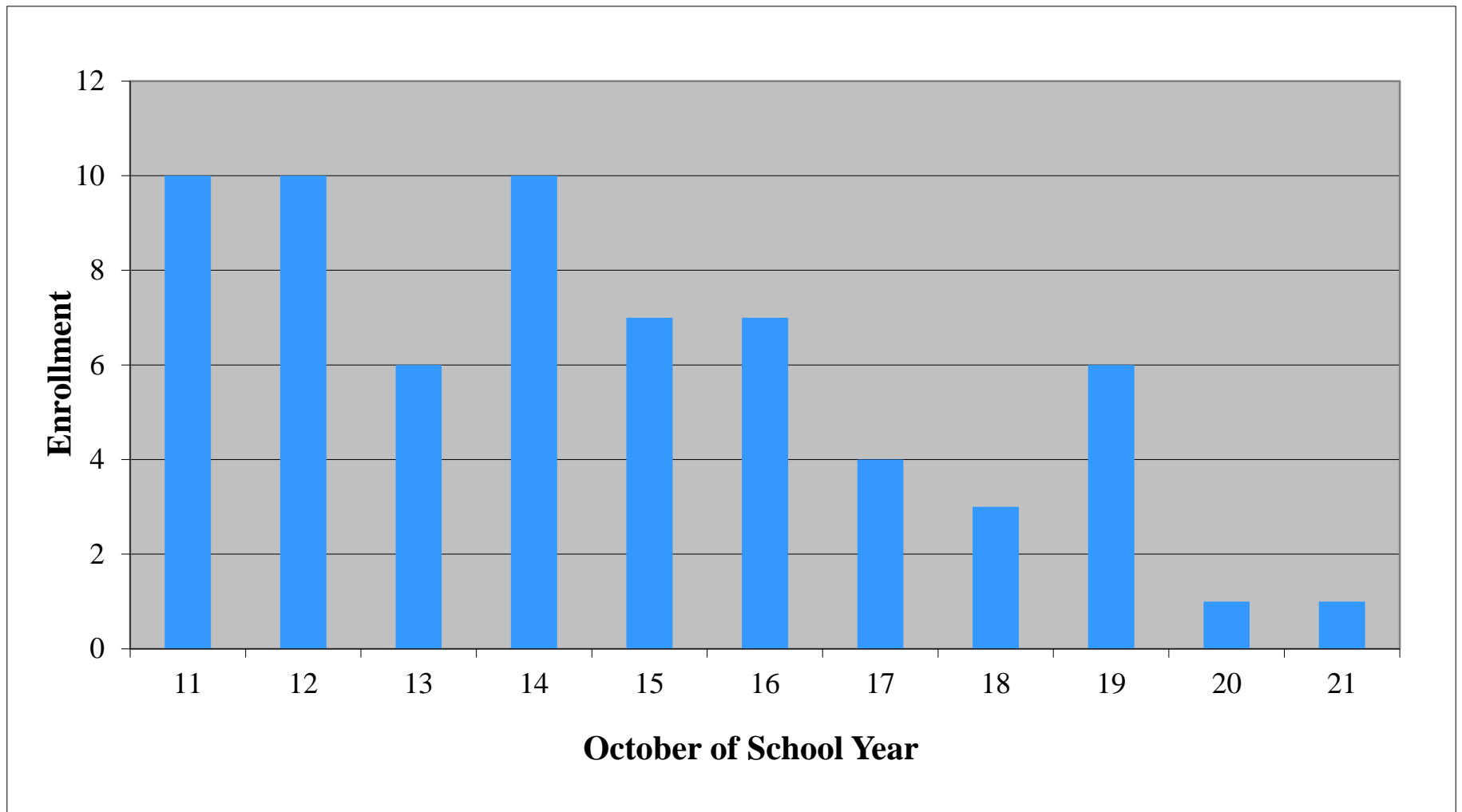
Contributing Factors

Non-Public Kindergarten Enrollment



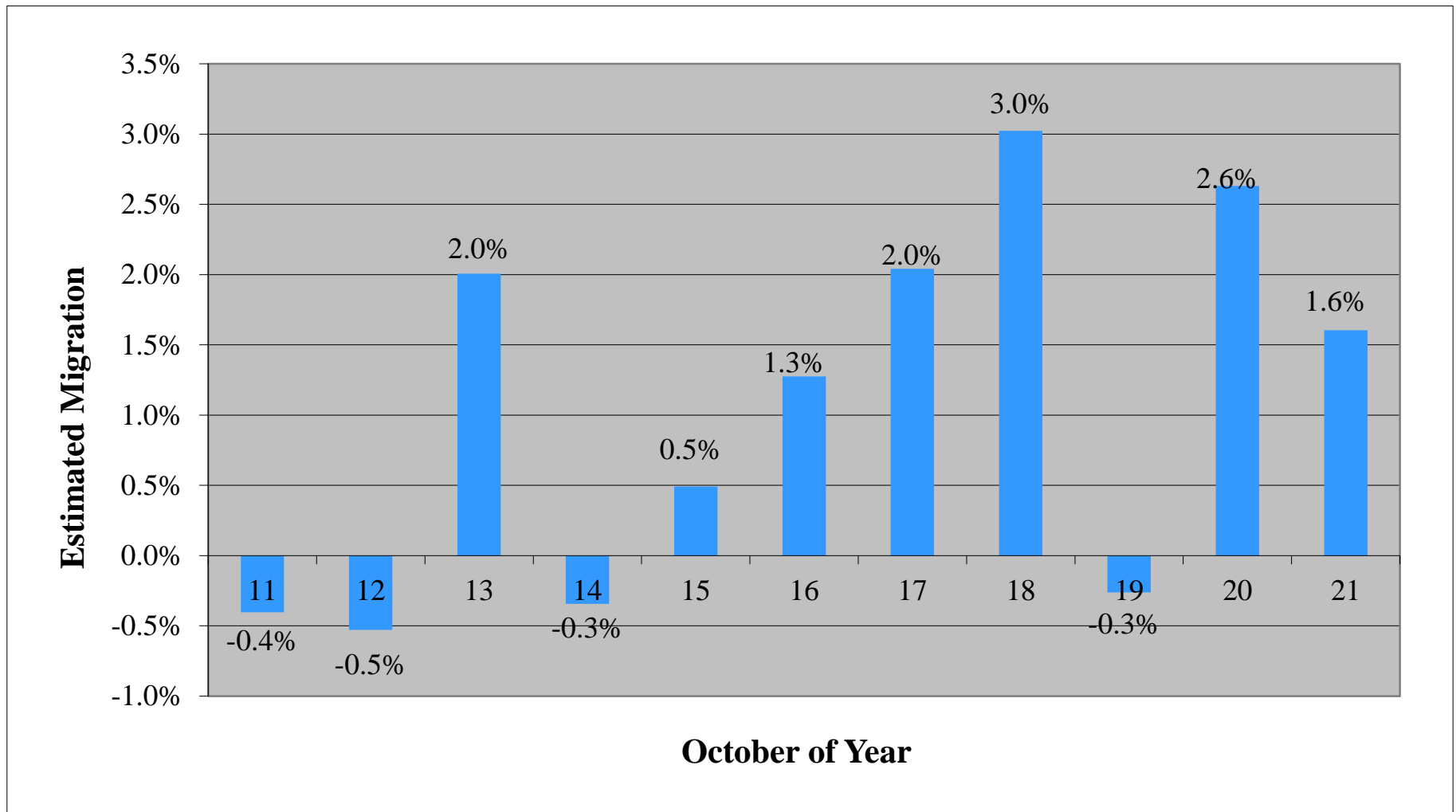
Contributing Factors

Kindergarten Enrollment in Other Public Schools



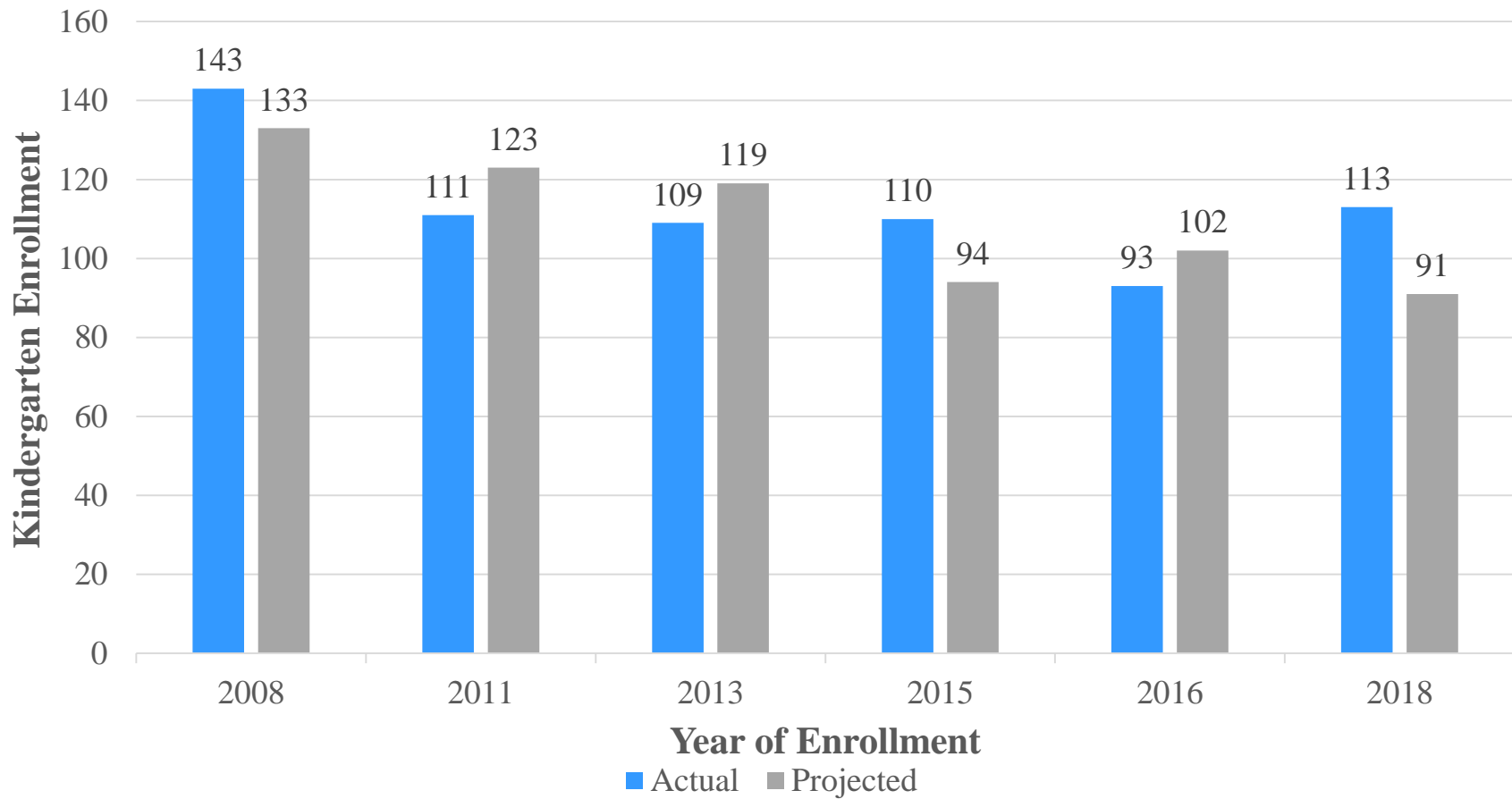
Projection Factors

Estimated Student Migration



Prior Projections

One-Year Accuracy of Prior Kindergarten Projections



Accuracy of Granby Kindergarten Projections

Questions?

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