



To: Dr. Charles Johns
Board of Education

From: Dr. Kim Ptak
Dr. R.J. Gravel

Date: Monday, December 13, 2021

Re: Enrollment Forecast Update for 2021-22

Background

Since FY 2014-15, the District has used a demographer, Dr. Jerome McKibben, to calculate a 10-year population forecast. Additionally, District administration prepares an annual internal enrollment projection using a cohort survival method with an acceptable accuracy rate when limited to three years. Both the population forecast and cohort survival projection have become essential tools for long-range planning and budgeting purposes. As a result, these tools are updated annually using October 1st enrollment counts as recorded in PowerSchool and summary data provided by our elementary feeder school districts (27, 28, 30, 31, and 34).

Population Forecast

Dr. McKibben's population forecast methodology assesses the impact of factors such as fertility rates, housing patterns, mortgage rate, mortality rates, census data, migration patterns, unemployment rates, the dynamics of local private schools, and feeder elementary school district enrollment data. This comprehensive approach lends itself to increased accuracy in long-term forecasts.

Table 1
Population Forecast

	District			Glenbrook North			Glenbrook South		
	10/2021	10/2020	O/(U)	10/2021	10/2020	O/(U)	10/2021	10/2020	O/(U)
2021-22	5,132 actual	5,120 estimate	12	2,052 actual	2,054 estimate	(2)	3,080 actual	3,066 estimate	14
2022-23	5,093	5,099	(6)	2,074	2,101	(27)	3,019	2,998	21
2023-24	5,044	5,078	(34)	2,088	2,132	(44)	2,956	2,946	10
2024-25	5,026	5,072	(46)	2,167	2,211	(44)	2,859	2,861	(2)
2025-26	5,022	5,081	(59)	2,214	2,268	(54)	2,808	2,813	(5)
2026-27	4,931	4,999	(68)	2,177	2,223	(46)	2,754	2,776	(22)
2027-28	4,861	4,889	(28)	2,192	2,227	(35)	2,669	2,662	7
2028-29	4,816	4,839	(23)	2,159	2,200	(41)	2,657	2,639	18
2029-30	4,729	4,795	(66)	2,108	2,150	(42)	2,621	2,649	(28)
2030-31	4,722	4,790	(68)	2,122	2,156	(34)	2,600	2,634	(34)
2031-32	4,756	n/a	n/a	2,128	n/a	n/a	2,628	n/a	n/a

Glenbrook South High School

Dr. McKibben was first hired to assist in the forecasting and planning related to the expected growth at GBS as a result of the Glen development. The Glen was constructed on an old naval air station and was completed in 2003 with 1,883 units, which include 567 single-family homes and 611 multifamily units. The majority of families moving into the homes at that time had small toddlers. Given this, Dr. McKibben's enrollment forecast showed growing enrollment for a six year period (FY 2014-15 - FY 2020-21) which is the period when the students residing in the Glen became high school age. Dr. McKibben projected FY 2020-21 to be the peak enrollment year, after which time his projection showed enrollment gradually declining back to FY 2013-14 numbers. Dr. McKibben's projections proved to be very accurate as FY 2020-21 was our peak year with 3,144 students at GBS and the decline in enrollment is beginning this year with 3,080 students and is expected to decline gradually over the next ten years.

Glenbrook North High School

Glenbrook North's projection shows increasing enrollment over the next 10 years. Peak enrollment is projected for the 2025-26 school year at 2,214 students or 162 students more than today. The increase is not as large as shown in last year's projection.

Cohort Survival Projection

The cohort survival method is strictly formula-driven and calculates ratios of students as they progress from one grade to the next. The ratios are then used to project future enrollment.

Table 2***Cohort Survival Projection***

	District			Glenbrook North			Glenbrook South		
	10/2021	10/2020	O/(U)	10/2021	10/2020	O/(U)	10/2021	10/2020	O/(U)
2021-22	5,132 actual	5,104 estimate	28	2,052 actual	2,040 estimate	12	3,080 actual	3,064 estimate	16
2022-23	5,094	5,072	22	2,080	2,077	3	3,014	2,995	19
2023-24	5,036	5,028	8	2,093	2,101	(8)	2,943	2,927	16
2024-25	5,008	n/a	n/a	2,171	n/a	n/a	2,837	n/a	n/a

Table 2 compares the recent projection using October 1, 2021, enrollment counts with the projection calculated a year ago using October 1, 2020 enrollment counts. Overall the current Glenbrook North projection grows 5.8% over the next three years, while Glenbrook South declines 7.9%.

Comparison of Enrollment Methodologies

Table 3 compares the results of the two methodologies for calculating enrollment projections. When considering the district enrollment, the two methods are within .5% of each other over the next three years.

Table 3***Comparison of Enrollment Methodologies***

	District			Glenbrook North			Glenbrook South		
	Pop. Forecast	Cohort Survival	O/(U)	Pop. Forecast	Cohort Survival	O/(U)	Pop. Forecast	Cohort Survival	O/(U)
2022-23	5,093	5,094	(1)	2,074	2,080	(6)	3,019	3,014	5
2023-24	5,044	5,036	8	2,088	2,093	(5)	2,956	2,943	13
2024-25	5,026	5,008	18	2,167	2,171	(4)	2,859	2,837	22