John W. Mercurio & Associates



Facilities Committee Presentation: March 4, 2025



INTRODUCTION

- Cincinnati resident since 1990, Family of Seven: Kathy, Kevin (23), David (21), Laura (18), Eric & Steven (16)
- Education: B.S. Civil/M.S. Environmental Engineer in Forecasting Business for water distribution and groundwater modeling using GIS since 1995, Completed both Business Analytics and Data Analytics programs,
- Started consulting business in 1997 while finishing Masters Degree,
- Forecasting school enrollment since 2003,
- Sycamore School Board Member from 2009 2021

OBJECTIVES

- Perform literature review and review past enrollment forecasts,
- Collect and integrate validated data from key influencing factors into a conceptual model for visual/technical analysis,
- Create an interactive attendance zone boundary map,
- Identify and analyze the most influential factors that impact district enrollment for the forecast period,
- Create a predictive forecasting model for enrollment by district, by building, by grade, and planning blocks for a 10-year period,
- Identify future data needs for the forecasting model for the district.

HISTORICAL ACCURACY

- Unique Approach using GIS in combination with a Forecast Model
- 2008 Forecast: 2013 18,597: (+1.7%), 2018: 17,762 (-2.9%)
- 2008 Actual: 2013 16,816: (-8.1%) off 9.8%, 2018: 16,580 (-9.3%) off 6.4%
 Post Audit: Over reliance on census data
- 2012 Forecast: 2017 15,913: (-6.1%), 2022: 14,950 (-11.8%)
- 2012 Actual: 2017 16,142: (-4.7%) off 1.4%, 2022: 17,439 (+2.87%) off 14.7%
 Post Audit: Over reliance on census data
- 2019 Forecast: 2024: 16,176 (-2.2%)
- 2019 Actual: 2024: 17,370 (+5.1%) off 7.3%
 Post Audit: Over reliance on census data
- 2020 Forecast: 2024: 17,061 (+0.9%)
- 2020 Actual: 2024: 17,370 (+2.7%) off 1.8% Post Audit: ODH data/Interpolation of data from larger geographies?
- July 2024 Forecast: 2033: 18,459 (+0.43% per year for next 10 years)
- 2033 Actual: 2033: ??,???
- Predicting Lakota's Enrollment has historically been <u>VERY DIFFICULT!</u>

DATA SOURCES

Census Data

• (District Demographic data from U.S. Census Surveys and American Community Surveys; IRS Migration Reports)

Economic Data

(National/State/Regional/Local Data on rates, rents, housing, and employment data)

Education Data

• (Historical ODE enrollment data, aggregated/disaggregated demographic data, economically disadvantaged data, and special programming data and the Educational Management Information System data)

Health Data

• (Birth information was obtained from the Ohio Department of Health)

• Real Estate Data

 (Butler County Auditor/Recorder data including property sales, permits, mortgages, real estate tax rates, City/Township Master Plans, Realtor interviews)

GIS Data

• (Butler County Engineer's Office)

OBSERVATIONS

U.S. Census Data:

• Magnitude: Absolute values typically can be used in conjunction with regional/local validated data sets

• Proportions: More reliable in understanding changes over time

• Direction: Useful in identifying mid-term and longer-term trends

• Interpolated Data: Improved and Acceptable technique to estimate unknowns with other datasets.

• *Extrapolated Data:* Improved/Acceptable technique to estimate unknowns with other datasets.

Projection vs. Forecast:

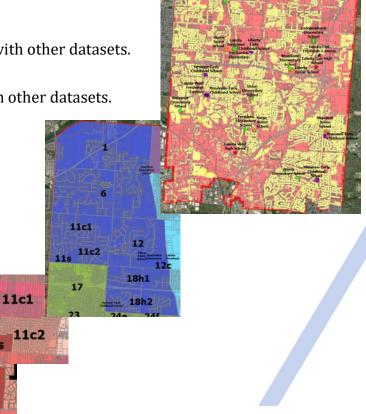
- Projection is considering historical data for forward estimation
- Forecast is focused on future events and factors to derive estimates

The most accurate enrollment studies are a hybrid of both!

Small Area Forecasts

Forecasts for larger populations over larger areas
will be more accurate than forecasts which are contained to a
relatively smaller geographic footprint and extrapolated to the whole.
This is a known phenomenon.

This can compound the margin of error!

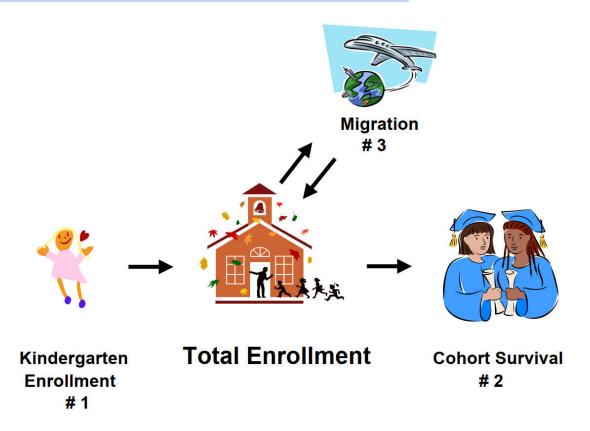


LEARN THE FUTURE

"The further backward you look, the further forward you see."

- Winston Churchill

ENROLLMENT EQUATION



Incoming Students \pm Net Migration of Students - Outgoing Students = Total Enrollment

POTENTIAL FACTORS

Family Size

Trends

Housing Valuation

State Trends School Choice

Estate

Development

Local Government

Master Plans

Real

Employment Trends

Jurisdictional Setting

Alternative

Schooling

Trends

School Building

New Construction

Available

Rent Rates

Demographic Trends

Land Area

Housing Turnover

District Performance

Migration

Rates

School

District

Policies

Regional Trends

 $N_{umberof}$

Births

Housing Trends

Number of

Households

Multiple Bedroom

Unit Trends

D_{istrict}

 $M_{edian\,Age}$

Population

Trends

Student Yield

Business Activity

Community Vibrancy & Appeal

Homeschool Zoning **Trends** Vacancy Rates National Trends District Pupil Density Real Estate Cycle Fertility / Birth **Rate Trends** Local Government Policies property Sales District Reputation School O_{Wner}/R_{enter} **Programming** $O_{ccupancy}$ T_{rends} Real Estate Taxes Generational Cycle Income Housing Age Trends Trends Age Cohort Trends Geography Economic Environment Educational

Race/Ethnicity

Trends

Homeschool Zoning **KEY INFLUENTIAL FACTORS Trends** Vacancy Rates National Trends District Pupil **Housing Turnover** Jurisdictional Setting Family Size Density Real Estate Cycle Fertility / Birth **Trends** School Building District Performance **Rate Trends** Local Government Policies New Construction **Housing Valuation** Property Sales Migration State Trends School Choice District Reputation Rates D_{istrict} $M_{edian\,Age}$ School Regional Trends Owner/Renter **Programming** Alternative Occupancy Trends Real Schooling Estate **Population** Number of <u>Development</u> Real Estate Taxes Trends **Trends** Births Available School Income Housing Age Local Government Trends **District** Trends **Master Plans Policies** Age Cohort Student Yield **Trends Rent Rates** Geography Educational **Housing Trends** Demographic Trends **Business Activity** Trends Multiple Bedroom **Economic Environment** Community Vibrancy & Appeal Unit Trends Number of Race/Ethnicity **Employment Trends** Households **Trends**

CENSUS DATA FOR LAKOTA

The American Community Survey



The Decennial Census



FERTILITY FOR LLSD

FR = LB/P * 1000

								II CENCIIC	U.S. CENSUS FERTILITY RATE		
			W	OMEN COL	HORTS			BIRTHS	PER 1,000 WOMEN	ODH FERTILI	TY RATE
Year	Women 15 to 50 years	15 to 19 years	15 to 19 years %	20 to 34 years	20 to 34 years %	35 to 50 years	35 to 50 years %	Number of Women with Births	Women 15 to 50 years	ODH Number of Births	Fertility Rate
2010	22,886	2,927	12.8%	8420.0	36.8%	11,539	50.4%	1,592	70	1,105	48.3
2011	21,952	2,987	13.6%	6984.0	31.8%	11,981	54.6%	1,836	84	1,100	50.1
2017	24,087	3,575	14.8%	8145.0	33.8%	12,367	51.3%	915	38	1,127	46.8
2013	22,278	,145	14.1%	6693.0	30.0%	12,440	55.8%	1,424	64	1,148	51.5
2014	24,663	3,425	13.9%	7622.0	30.9%	13,616	55.2%	1,351	55	1,131	45.9
2015	22,724	3,614	15.9%	6902.0	30.4%	12,208	53.7%	1,409	62	1,114	49.0
2016	24,543	3,637	14.8%	8661.0	35.3%	12,245	49.9%	1,653	67	1,091	44.5
2017	23,484	3,674	15.6%	9112.0	38.8%	10,698	45.6%	1,250	53	1,073	45.7
2018	22,908	3,025	13.2%	7885.0	34.4%	11,998	52.4%	1,162	51	1,110	48.5
2019	22,850	,489	15.3%	6854.0	30.0%	12,507	54.7%	774	34	1,118	48.9
2020	22,765	3,072	13.5%	8219.0	36.1%	11,474	50.4%	1,404	62	1,119	49.2
2021	24,006	3,662	15.3%	9439.0	39.3%	10,905	45.4%	1,452	60	1,150	47.9
2022	23,498	2,329	9.9%	8599.0	36.6%	12,570	53.5%	1,660	71	1,113	47.4
2023	22,537	2,759	12.2%	8416.0	37.3%	11,362	50.4%	1,707	76	1,074	47.7

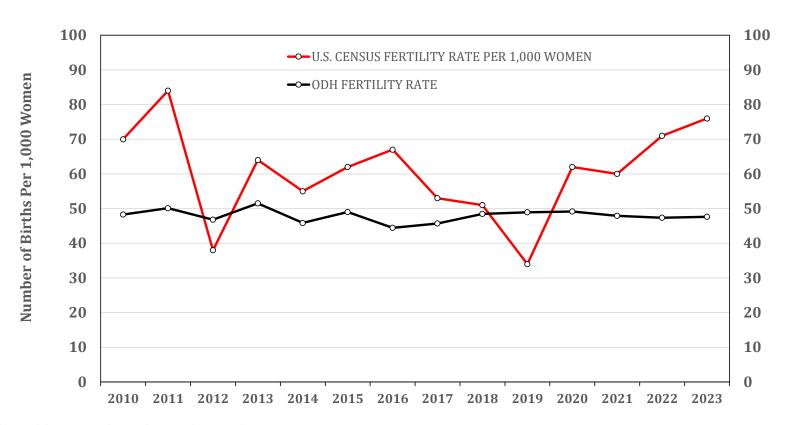
 $Source:\ U.S.\ Census\ Bureau-American\ Community\ Survey\ Data, Ohio\ Department\ of\ Health$

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error < \sim 2%

FERTILITY FOR LLSD

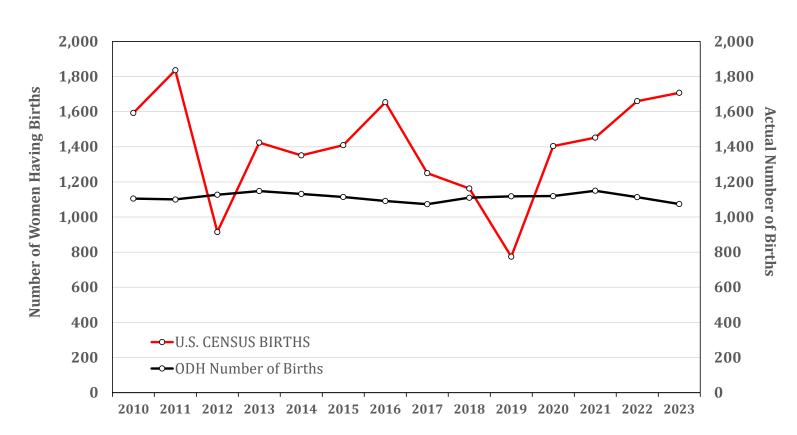
Fertility Rate Within the Lakota Local School District



Source: U.S. Census Bureau - American Community Survey Data, ODH Data

FERTILITY FOR LLSD

Birth Estimates vs. Actual Within the Lakota Local School District



Source: U.S. Census Bureau - American Community Survey Data, ODH Data

CENSUS DATA SCHOOL ENROLLMENT FOR LLSD

			SCHOOL EN	NROLLMENT					
Year	Population 3 years and over enrolled in school	Nursery school, preschool	Kindergarten	Elementary school (grades 1-8)	High school (grades 9-12)	College or graduate school	Population Enrolled in KG thru 12th grade	Population Enrolled in PK thru 12th grade	Range of % to Alternate School
2010	28,804	2,989	1,882	12,865	5,564	5,504	20,311	23,300	11%
2011	27,201	2,265	1,541	12,963	5,778	4,654	20,282	22,547	14%
2012	27,753	1,990	1,664	11,939	5,835	6,325	19,438	21,428	13%
2013	28,619	2,288	1,899	14,024	6,507	3,901	22,430	24,718	26%
2014	25,158	1,638	1,521	11,424	6,251	4,324	19,196	20,834	16%
2015	26,182	1,022	968	11,580	7,392	5,220	19,940	20,962	20%
2016	27,938	2,270	1,436	11,005	6,635	6,592	19,076	21,346	17%
2017	27,444	1,719	1,068	11,442	6,948	6,267	19,458	21,177	19%
2018	28,644	1,604	1,637	12,707	7,245	5,451	21,589	23,193	25%
2019	26,999	1,909	705	12,118	5,895	6,372	18,718	20,627	12%
2020	27,338	1,825	1,486	11,830	6,031	6,166	19,347	21,172	15%
2021	29,162	2,333	1,365	13,205	6,799	5,460	21,369	23,702	21%
2022	28,818	2,799	2,461	11,815	6,097	5,646	20,373	23,172	16%
2023	27,317	2,249	1,839	12,457	6,246	4,526	20,542	22,791	16%

Source: U.S. Census Bureau - American Community Survey Data

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error < \sim 2%

CENSUS AGE DATA FOR LLSD

														AGI	E												
	IIn don F	Under 5		5 to 9	10 to 14	10 to 14	15 to 10	15 to 19	20 to 24	20 to 24	25 to 24	25 to 34		35 to 44	45 to 54	45 to 54	FF 40 FO	55 to 59	l	60 to 64		65 to 74	1	75 to 84		85 years	
Year	Under 5 years	,	years	3	10 to 14 years	years (%)	15 to 19 years	years (%)	20 to 24 years	years (%)	25 to 34 years	(%)	35 to 44 years	(%)	years	years (%)	55 to 59 years	years (%)	60 to 64 years	years (%)	65 to 74 years	years (%)	75 to 84 years	years (%)	85 years and over		age (years)
2010	6,872	7.4%	8,411	9.1%	7,938	8.6%	5,948	6.4%	5,002	5.4%	11,789	12.7%	13,066	14.1%	15,429	16.7%	5,336	5.8%	4,246	7.4%	5,161	5.6%	2,357	2.5%	978	1.1%	35.2
2011	7,358	7.7%	7,491	7.8%	9,124	9.5%	5,855	6.1%	4,191	4.4%	9,756	10.1%	15,037	15.6%	16,335	17.0%	6,218	6.5%	6,063	7.7%	5,177	5.4%	2,703	2.8%	847	0.9%	37.8
2012	6,121	6.6%	6,576	7.1%	8,323	9.0%	6,479	7.0%	5,670	6.1%	10,015	10.8%	13,819	14.9%	16,266	17.5%	4,956	5.3%	5,732	6.6%	5,103	5.5%	2,963	3.2%	751	0.8%	37.9
2013	5,747	6.0%	8,999	9.5%	8,654	9.1%	7,417	7.8%	4,031	4.2%	9,614	10.1%	13,574	14.3%	16,003	16.8%	6,989	7.3%	4,867	6.0%	6,066	6.4%	2,008	2.1%	1,201	1.3%	37.5
2014	7,284	7.5%	6,564	6.7%	7,983	8.2%	6,395	6.6%	4,291	4.4%	10,790	11.1%	14,369	14.7%	16,382	16.8%	7,165	7.3%	4,020	7.5%	7,476	7.7%	3,662	3.8%	1,120	1.1%	38.7
2015	5,322	5.5%	5,458	5.6%	8,491	8.7%	7,516	7.7%	5,079	5.2%	10,616	10.9%	14,136	14.5%	16,022	16.4%	6,318	6.5%	7,119	5.5%	7,058	7.2%	2,907	3.0%	1,535	1.6%	40.3
2016	6,380	6.5%	7,366	7.5%	7,406	7.5%	7,694	7.8%	5,334	5.4%	11,407	11.6%	14,550	14.8%	14,656	14.9%	6,992	7.1%	5,318	6.5%	7,403	7.5%	2,795	2.8%	1,259	1.3%	37.2
2017	5,769	5.8%	6,673	6.8%	6,798	6.9%	8,928	9.0%	5,225	5.3%	12,717	12.9%	12,644	12.8%	15,043	15.2%	6,191	6.3%	6,442	5.8%	7,673	7.8%	3,576	3.6%	977	1.0%	38.3
2018	7,069	7.0%	7,626	7.6%	9,578	9.5%	7,074	7.0%	6,164	6.1%	9,904	9.9%	12,904	12.8%	15,028	15.0%	6,704	6.7%	6,671	7.0%	7,353	7.3%	3,429	3.4%	999	1.0%	37.4
2019	5,716	5.7%	6,024	6.0%	8,966	8.9%	6,849	6.8%	4,353	4.3%	10,414	10.3%	13,723	13.6%	15,597	15.5%	7,642	7.6%	6,451	5.7%	9,601	9.5%	4,185	4.1%	1,348	1.3%	41.1
2020	6,284	6.3%	7,282	7.3%	7,714	7.7%	6,753	6.8%	5,893	5.9%	11,469	11.5%	12,866	12.9%	14,992	15.0%	6,862	6.9%	6,609	6.3%	8,905	8.9%	3,211	3.2%	1,141	1.1%	38.9
2021	8,514	8.1%	7,897	7.6%	8,339	8.0%	6,895	6.6%	7,115	6.8%	11,137	10.6%	14,410	13.8%	13,781	13.2%	7,992	7.6%	5,600	8.1%	7,727	7.4%	3,633	3.5%	1,555	1.5%	37.3
2022	6,480	6.1%	9,139	8.6%	7,436	7.0%	6,294	6.0%	7,389	7.0%	11,935	11.3%	14,905	14.1%	13,315	12.6%	5,971	5.6%	8,433	6.1%	9,301	8.8%	4,147	3.9%	998	0.9%	37.7
2023	7,364	7.0%	8,360	7.9%	7,169	6.8%	6,893	6.5%	5,672	5.4%	10,789	10.2%	15,072	14.3%	14,418	13.7%	6,282	6.0%	7,424	7.0%	10,362	9.8%	4,559	4.3%	1,047	1.0%	38.2

CENSUS AGE DATA FOR LLSD

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		Under 5	5 t	to 9		10 to 14		15 to 19		20 to 24		25 to 34		35 to 44		45 to 54		55 to 59		60 to 64		65 to 74		75 to 84		85 years	Median
	Under 5	_	5 to 9 ye	- 1		years	15 to 19	years	20 to 24	years	25 to 34	years	35 to 44	years	45 to 54	years	55 to 59	years	60 to 64	-	65 to 74	years	75 to 84	-	85 years	and over	age
Year	years		years (years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	years	(%)	and over	(%)	(years)
2010	6,872	7.4%	8,411 9.	1%	7,938	8.6%	5,948	6.4%	5,002	5.4%	11,789	12.7%	13,066	14.1%	15,429	16.7%	5,336	5.8%	4,246	7.4%	5,161	5.6%	2,357	2.5%	978	1.1%	35.2
2011	7,358	7.7%	7,491 7.	8%	9,124	9.5%	5,855	6.1%	4,191	4.4%	9,756	10.1%	15,037	15.6%	16,335	17.0%	6,218	6.5%	6,063	7.7%	5,177	5.4%	2,703	2.8%	847	0.9%	37.8
2012	6,121	6.6%	6,576 7.	1%	8,323	9.0%	6,479	7.0%	5,670	6.1%	10,015	10.8%	13,819	14.9%	16,266	17.5%	4,956	5.3%	5,732	6.6%	5,103	5.5%	2,963	3.2%	751	0.8%	37.9
2013	5,747	6.0%	8,999 9.	5%	8,654	9.1%	7,417	7.8%	4,031	4.2%	9,614	10.1%	13,574	14.3%	16,003	16.8%	6,989	7.3%	4,867	6.0%	6,066	6.4%	2,008	2.1%	1,201	1.3%	37.5
2014	7,284	7.5%	6,564 6.	7%	7,983	8.2%	6,395	6.6%	4,291	4.4%	10,790	11.1%	14,369	14.7%	16,382	16.8%	7,165	7.3%	4,020	7.5%	7,476	7.7%	3,662	3.8%	1,120	1.1%	38.7
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2016	6,380	6.5%	7,366 7.	5%	7,406	7.5%	7,694	7.8%	5,334	5.4%	11,407	11.6%	14,550	14.8%	14,656	14.9%	6,992	7.1%	5,318	6.5%	7,403	7.5%	2,795	2.8%	1,259	1.3%	37.2
2017	5,769	5.8%	6,673 6.5	8%	6,798	6.9%	8,928	9.0%	5,225	5.3%	12,717	12.9%	12,644	12.8%	15,043	15.2%	6,191	6.3%	6,442	5.8%	7,673	7.8%	3,576	3.6%	977	1.0%	38.3
2018	7.069	7.0%	7,626 7.	6%	9,578	9.5%	7,074	7.0%	6,164	6.1%	9,904	9.9%	12.904	12.8%	15,028	15.0%	6,704	6.7%	6,671	7.0%	7,353	7.3%	3,429	3.4%	999	1.0%	37.4
2019	5,716	5.7%	6,024 6.	0%	8,966	8.9%	6,849	6.8%	4,353	4.3%	10,414	10.3%	13,723	13.6%	15,597	15.5%	7,642	7.6%	6,451	5.7%	9,601	9.5%	4,185	4.1%	1,348	1.3%	41.1
2020	6.284		7,282 7.3			7.7%	6,753	6.8%	5,893	5.9%	11,469					15.0%	6,862	6.9%	6,609	6.3%	8,905	8.9%	3,211	3.2%	1.141	1.1%	38.9
2021	8,514		7,897 7.		8,339	8.0%	6,895	6.6%	7,115	6.8%	11,137	10.6%	, i	13.8%	,	13.2%	7,992	7.6%	5,600	8.1%	7,727	7.4%	3,633	3.5%	1,555	1.5%	37.3
2022	6.480		9,139 8.			7.0%	6,294	6.0%	7,389	7.0%	11,935				13,315			5.6%	8,433	6.1%	9,301	8.8%	4,147	3.9%	998	0.9%	37.7
2023	7.364		8,360 7.			6.8%	6,893	6.5%	5,672	5.4%					14,418			6.0%	7,424	7.0%	10.362	9.8%	4.559	4.3%	1,047	1.0%	38.2
2023	7,304	7.0%	8,300 7.	9%	7,109	J 6.8%	0,893	0.5%	3,072	5.4%	10,789	10.2%	15,072	14.5%	14,418	13.7%	0,282	6.0% 	7,424	7.0%	10,362	9.8%	4,559	4.5%	1,047	1.0%	38.2
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		Ge	n Alpha	a				Gen Z	Z			Mill	ennials	\$		Gen	\mathbf{X}		Boom	ers II	Bo	omers	I	Pos	st War/		
	Ages 0 to 12				\mathbf{A}	ges 12 t	to 27			Ages	28 to 4	3	A	Ages 44	to 59	_	Ages 6	0 to 69	Age	s 70 to	78		VWII				
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CENSUS AGE DATA FOR LLSD

							AGE						
Year	Under 5 years (%)	5 to 9 years (%)	10 to 14 years (%)	15 to 19 years (%)	20 to 24 years (%)	25 to 34 years (%)	35 to 44 years (%)	45 to 54 years (%)	55 to 59 years (%)	60 to 64 years (%)	65 to 74 years (%)	75 to 84 years (%)	85 years and over (%)
2010	7.4%	9.1%	8.6%	6.4%	5.4%	12.7%	14.1%	16.7%	5.8%	7.4%	5.6%	2.5%	1.1%
2011	7.7%	7.8%	9.5%	6.1%	4	10.1%	1	17.0%	6.5%	7.70/	5.170	2.8%	0.9%
2012	6%	7.1%	r	7.0%	1%	10.8%	4.9%	17.5%	5.3%	10	5.5%	3.2%	0.8%
2013	%	9.5%	.1%	8%	4.2%	1%	14.3%	6.8%	7.3%	6.0%	6.4%	2.1%	1.3%
2014	7.	6.7%	8.2%	·%	4.4%	1 %	14.7%	8%	7.3%	7.5%	7.7%	3.8%	1.1%
2015	5.5	5.6°	8.7%		5.2%	10.	14.5%	1 %	6.5°	5.5%	7.2%	3.0%	1.6%
2016	6.5%	7 <u>s</u>	7.5%	7	5.4%	11.6	14.8%	14.	- 0	6.5%	7.5%	2.8%	1.3%
2017	5.8%	3%	6.9%	<u> </u>	5.3%	12.6	12.8%	15.29	.3%	5.8%	7.8%	3.6%	1.0%
2018	7.0%	7.6%	9.5%		6.1%	9	12.8%	15.0%	6.7%	7.0%	7.3%	3.4%	1.0%
2019	5.7%	0%	8.9%	.8%	4.3%	1 %	3.6%	15.5°	7.6%	5.7%	9.5%	4.1%	1.3%
2020	6.30	%	7.7%	6.8%	5.9%	.5%	1 1%	1 ^r 0	9%	6.3%	8.9%	3.2%	1.1%
2021	8	7.	8.0%	6.6%	6.8%	_0.6%	13	.2%	7.	8.1%	7.4%	3.5%	1.5%
2022	6.1%	8.6%	71	6.0%	n%	11.3%	14.1%	12.6%	5.6%	10%	8.8%	3.9%	0.9%
2023	7.0%	7.9%	6.8%	6.5%	5.4%	10.2%	14.3%	13.7%	6.0%	7.0%	ر ن.در	4.3%	1.0%

Source: U.S. Census Bureau - American Community Survey Data

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error < ~2%

CENSUS ECONOMIC DATA FOR LLSD

	EM	IPLOYMENT	IN	COME	POVERTY
Year	Percent Unemployed	All parents in family in labor force		rs) Median family income (dollars)	Percentage of Families with related children under 18 years Below Poverty Level
2010	6.0%	73.6%	86,157	94,619	6.6%
2011	5.2%	73.9%	82,475	91,137	19.3%
2012	4.7%	78.5%	88,126	100,022	25.0%
2013	3.5%	65.5%	83,706	98,867	34.2%
2014	2.6%	77.3%	93,892	109,846	20.1%
2015	2.3%	75.8%	88,032	101,332	22.9%
2016	4.4%	77.5%	110,517	121,949	18.7%
2017	3.1%	N/A	102,851	114,634	9.1%
2018	2.2%	67.4%	100,945	117,918	40.7%
2019	2.5%	75.1%	102,858	111,110	15.7%
2020	3.4%	77.1%	109,303	122,441	20.7%
2021	4.0%	72.6%	114,847	125,439	4.9%
2022	2.5%	78.5%	114,362	139,215	21.5%
2023	1.3%	81.7%	128,486	135,566	45.1%

Source: U.S. Census Bureau - American Community Survey Data

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error < \sim 2%

CENSUS HOUSING DATA FOR LLSD

		ŀ	HOUSING	OCCUPANCY		ноц	JSING AG	E and BEDRO	OOMS		Н	OUSING T	ENURE		HOUSING	TURNOVER	VALUATI	ION
Year	Total housing units	Vacant housing units	Vacant housing units (%)	Multiple housing units (2 or more)		Built 2000 to 2004	Built 2000 or later (%)		3 or more		Average household size of owner- occupied unit	Renter- occupied	Average household size of renter- occupied unit	Average household size of all occupied units	Number of Units Where Householder Moyed in 2000 or later	Percentage of Units Where Householder Moved in 2000 or later	Value of Owner- occupied units Median (dollars)	
2010	32,745	822	2.5	4,588	14.0%	9,117	27.8%	31,680	26,969	27,050	2.86	4,873	3.04	2.89	20,617	64.6%	219,600	987
2011	33,965	1,448	4.3	4,819	14.2%	7,213	21.2%	32,807	28,689	28,151	2.96	4,366	2.89	2.95	19,356	59.5%	213,900	962
2012	31,372	1,311	4.2	3,767	12.0%	7,953	25.4%	30,596	26,081	25,951	3.10	4,110	2.92	3.08	19,307	64.2%	207,500	875
2013	34,487	1,927	5.6	5,051	14.6%	7,985	23.2%	33,338	27,905	27,005	2.90	5,555	2.98	2.91	22,051	67.7%	206,800	1,003
2014	35,656	1,465	4.1	6,289	17.6%	8,805	24.7%	34,724	28,323	27,666	2.92	6,525	2.52	2.84	23,730	69.4%	211,500	1,057
2015	35,403	1,376	3.9	5,515	15.6%	9,530	26.9%	34,169	28,601	27,778	2.94	6,249	2.49	2.86	11,550	33.9%	227,500	1,111
2016	35,436	1,463	4.1	5,853	16.5%	8,243	23.3%	34,106	28,918	27,820	3.02	6,153	2.31	2.89	14,601	43.0%	229,600	1,285
2017	36,806	2,291	6.2	5,054	13.7%	10,199	27.7%	35,819	30,056	28,809	2.93	5,706	2.45	2.85	15,427	44.7%	238,800	1,266
2018	36,327	1,674	4.6	7,390	20.3%	10,813	29.8%	34,548	28,821	26,947	3.01	7,706	2.49	2.89	12,093	34.9%	259,000	1,165
2019	38,736	2,185	5.6	6,671	17.2%	11,576	29.9%	37,116	31,759	30,190	2.84	6,361	2.31	2.75	13,459	36.8%	261,700	1,262
2020	37,186	1,561	4.2	6,058	16.3%	10,463	28.1%	35,956	30,318	29,407	2.89	6,218	2.36	2.80	10,939	30.7%	251,600	1,238
2021	37,361	1,209	3.2	5,931	15.9%	13,176	35.3%	35,453	29,531	30,631	2.89	5,521	2.84	2.88	16,826	46.5%	297,400	1,598
2022	38,193	662	1.7	5,962	15.6%	14,482	37.9%	36,243	29,743	30,943	2.91	6,588	2.33	2.81	13,645	36.4%	367,900	1,494
2023	38,891	860	2.2	7,614	19.6%	14,066	36.2%	36,764	31,004	30,901	2.87	7,130	2.30	2.76	14,829	39.0%	376,800	1,700

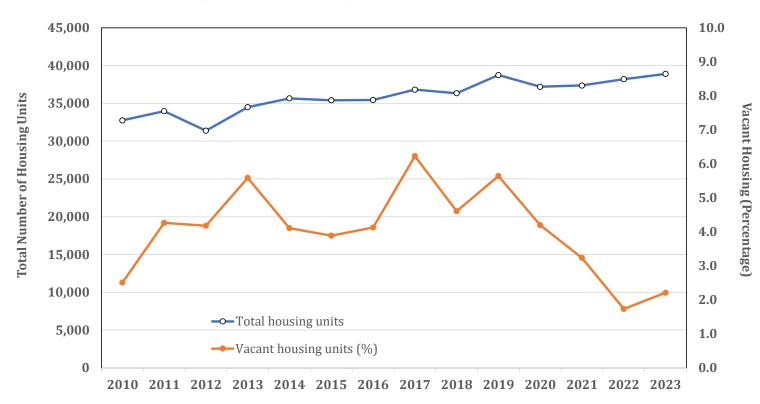
Source: U.S. Census Bureau - American Community Survey Data

* ACS data are estimates and typically have a percent margin of error < $\sim\!2\%$

Maximum value in category

CENSUS HOUSING DATA FOR LLSD

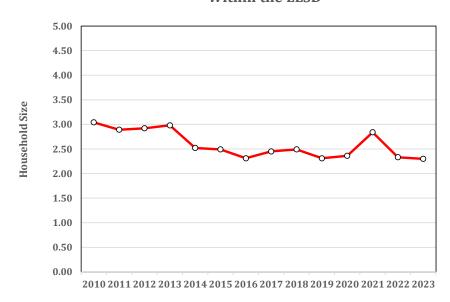
Total Housing Units and Vacancy Within the Lakota Local School District



Source: U.S. Census Bureau - American Community Survey Data

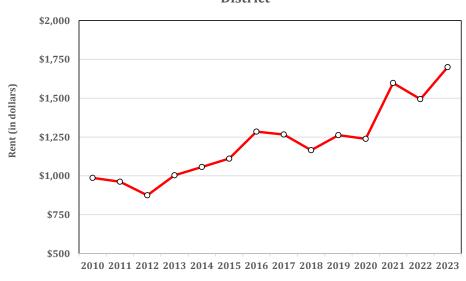
CENSUS HOUSING DATA FOR LLSD

Average Household Size of Renter-Occupied Units Within the LLSD



Source: U.S. Census Bureau - American Community Survey Data

Gross Rent Median Within the Lakota Local School District



Source: U.S. Census Bureau - American Community Survey Data

CENSUS RACE DATA FOR LLSD

				DEMOGRAF	PHICS - RACE				
Year	One race	Two or more races	White	Black or African American	American Indian and Alaska Native	Asian	Native Hawaiian and Other Pacific Islander	Some other race	Hispanic or Latino (of any race)
2010	99.4%	0.6%	84.6%	7.2%	0.0%	5.8%	0.0%	1.8%	5.0%
2011	98.7%	1.3%	85.0%	5.9%	0.0%	7.4%	0.0%	0.5%	6.5%
2012	97.4%	2.6%	81.6%	6.8%	0.1%	7.6%	0.0%	1.3%	4.2%
2013	95.5%	4.5%	81.5%	7.0%	0.0%	5.9%	0.0%	1.0%	4.7%
2014	98.2%	1.8%	84.0%	8.1%	0.3%	5.5%	0.0%	0.2%	3.0%
2015	96.8%	3.2%	81.6%	7.3%	0.0%	6.1%	0.0%	1.7%	4.8%
2016	96.5%	3.5%	81.9%	7.6%	0.2%	6.2%	0.1%	0.5%	2.4%
2017	95.9%	4.1%	80.5%	8.1%	0.0%	6.4%	0.0%	0.9%	4.0%
2018	96.8%	3.2%	80.5%	11.4%	0.4%	7.1%	0.0%	1.1%	3.2%
2019	96.7%	3.3%	81.7%	8.1%	0.4%	5.1%	0.0%	1.5%	6.8%
2020	95.1%	4.9%	80.0%	8.0%	0.2%	5.9%	0.0%	1.0%	4.7%
2021	93.5%	6.5%	75.9%	8.7%	0.1%	8.5%	0.0%	0.3%	2.1%
2022	92.7%	7.3%	70.3%	9.5%	0.0%	10.4%	0.0%	2.5%	5.6%
2023	91.7%	8.3%	73.9%	8.8%	0.0%	8.0%	0.0%	0.9%	4.6%

Source: U.S. Census Bureau - American Community Survey Data

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error significantly < \sim 2%

CENSUS HOUSEHOLD / STUDENT YIELD

DATA FOR LLSD

			HOUSEHOLD D	DATA				STUDENT YIELD	
Year	Total Households	Population in Households	Households with one or more people under 18 years		Average Family Size	Child	Lakota Enrollment PK thru 12th	Lakota Public Student Yield	LLSD Community Student Yield
2010	31,923	92,185	14,703	46.1%	3.24	33,017	18,404	0.577	0.73
2011	32,517	95,842	13,470	41.4%	3.30	33,611	17,698	0.544	0.69
2012	30,061	92,467	12,210	40.6%	3.51	34,469	17,060	0.568	0.71
2013	32,560	94,853	14,696	45.1%	3.20	33,135	16,766	0.515	0.76
2014	34,191	97,235	14,431	42.2%	3.21	31,584	16,288	0.476	0.61
2015	34,027	97,306	12,027	35.3%	3.29	32,798	16,178	0.475	0.62
2016	33,973	98,256	13,504	39.7%	3.39	34,417	16,135	0.475	0.63
2017	34,515	98,357	13,230	38.3%	3.30	34,071	16,112	0.467	0.61
2018	34,653	100,208	14,046	40.5%	3.29	35,030	16,555	0.478	0.67
2019	36,551	100,567	14,070	38.5%	3.16	30,606	16,773	0.459	0.56
2020	35,625	99,683	13,786	38.7%	3.23	33,233	16,595	0.466	0.59
2021	36,152	104,282	13,822	38.2%	3.36	37,450	17,149	0.474	0.66
2022	37,531	105,408	14,226	37.9%	3.20	36,105	17,421	0.464	0.62
2023	38,031	105,079	13,975	36.7%	3.18	35,775	17,525	0.461	0.60

Source: U.S. Census Bureau - American Community Survey Data

Maximum value in category

^{*} ACS data are estimates and typically have a percent margin of error < ~2%

^{**} A household includes all the people who occupy a housing unit (such as a house or apartment) as their usual place of residence.

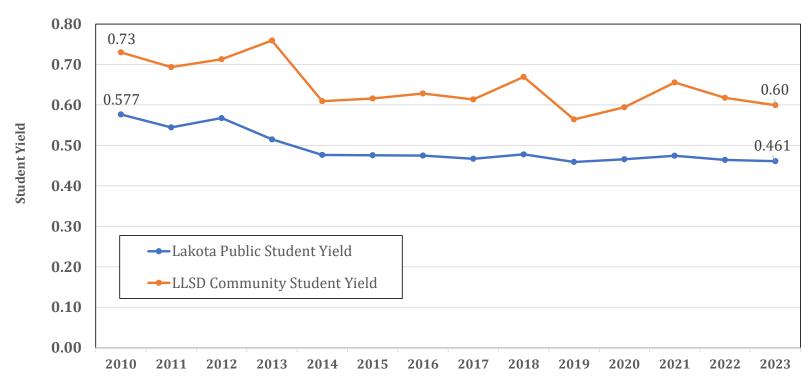
^{***} A family, which is the householder and all (one or more) other people living in the same household who are related to the householder by blood, marriage, or adoption.

^{****} A child is a son or a daughter by birth, a stepchild, or an adopted child of the householder, regardless of the child's age or marital status.

^{*****} Student Yield is a calculation of school enrollment divided by the number of households.

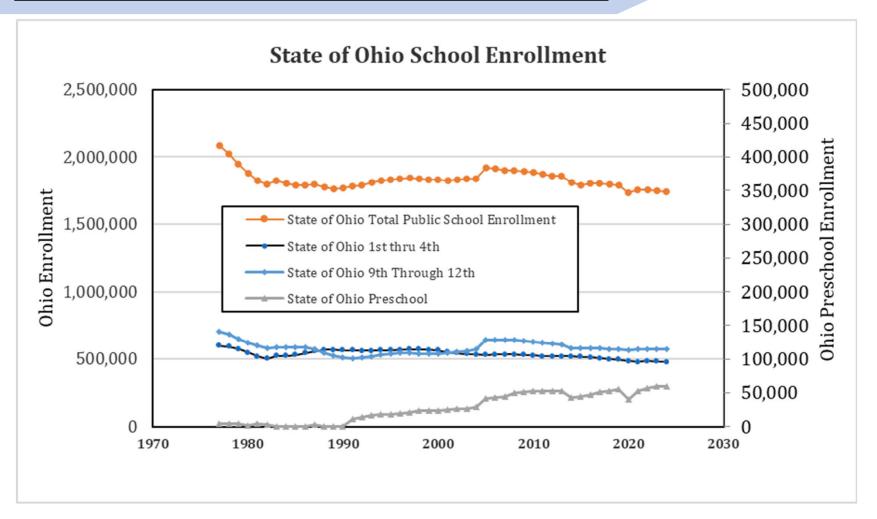
CENSUS STUDENT YIELD DATA FOR LLSD

Student Yield Measures Within the Lakota Local School District

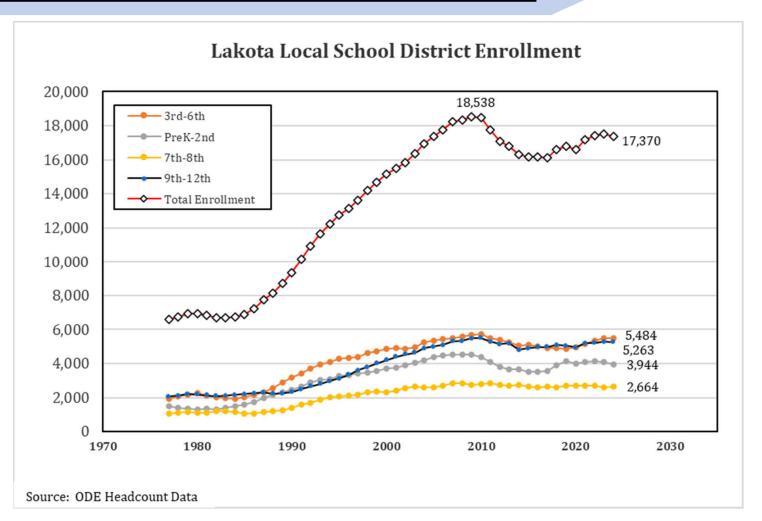


Source: U.S. Census Bureau - American Community Survey Data

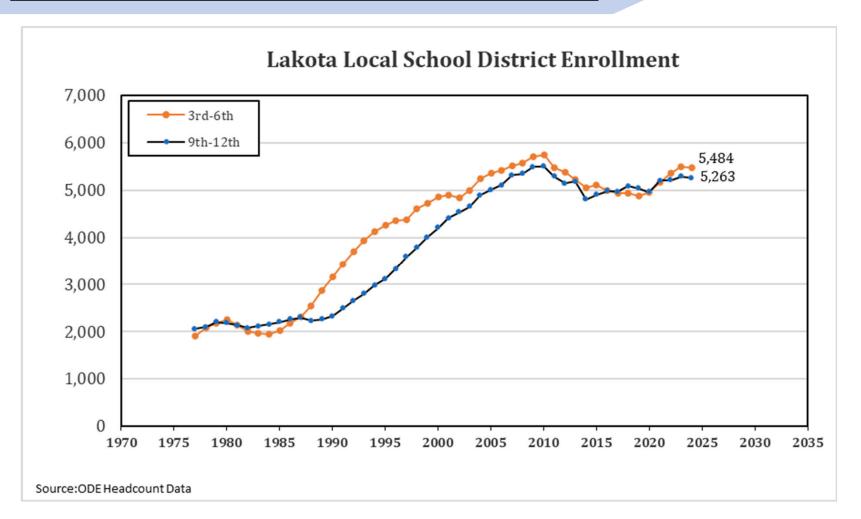
ENROLLMENT DATA FOR OHIO



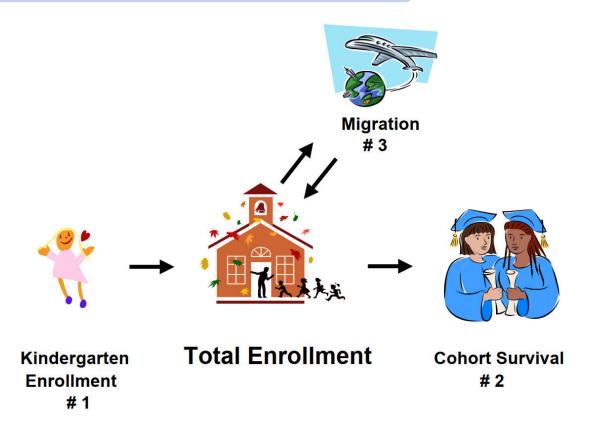
ENROLLMENT DATA FOR LLSD



ENROLLMENT DATA FOR LLSD

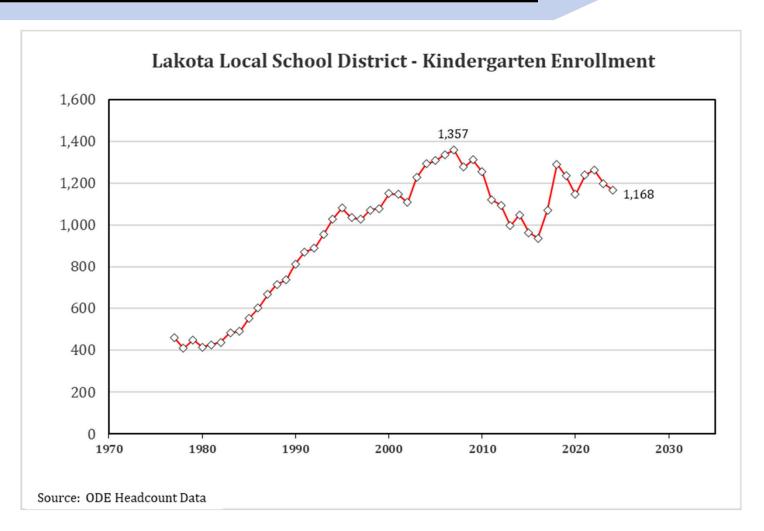


ENROLLMENT EQUATION

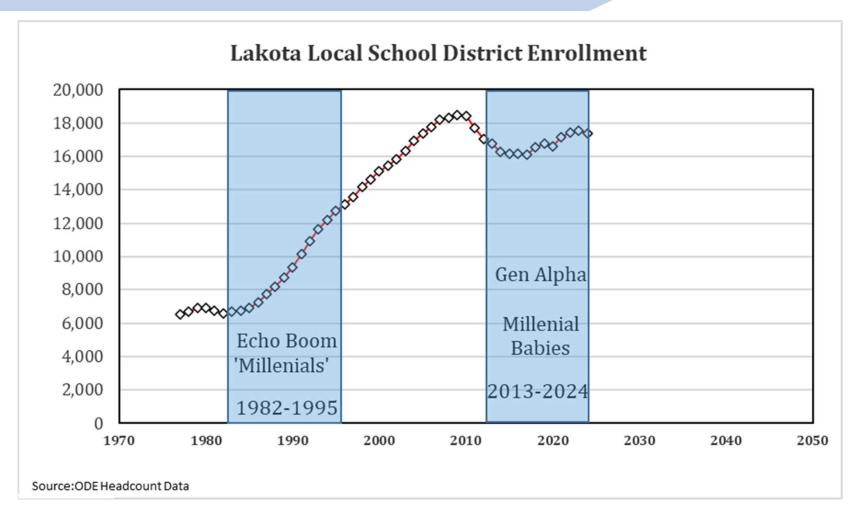


Incoming Students \pm Net Migration of Students - Outgoing Students = Total Enrollment

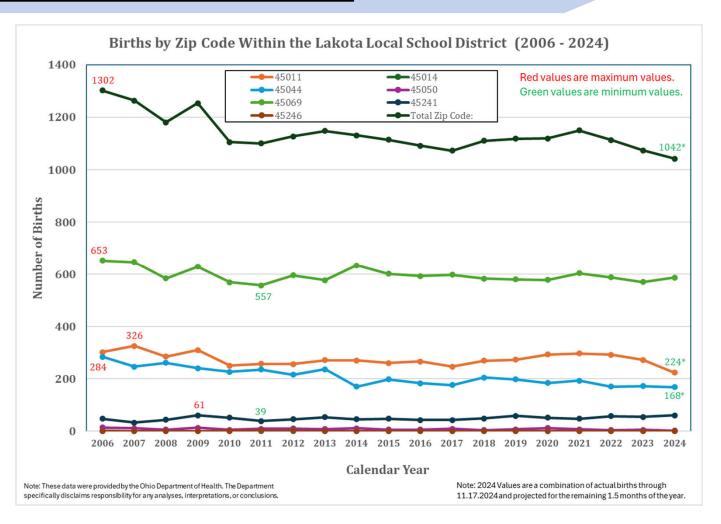
KG ENROLLMENT DATA FOR LLSD



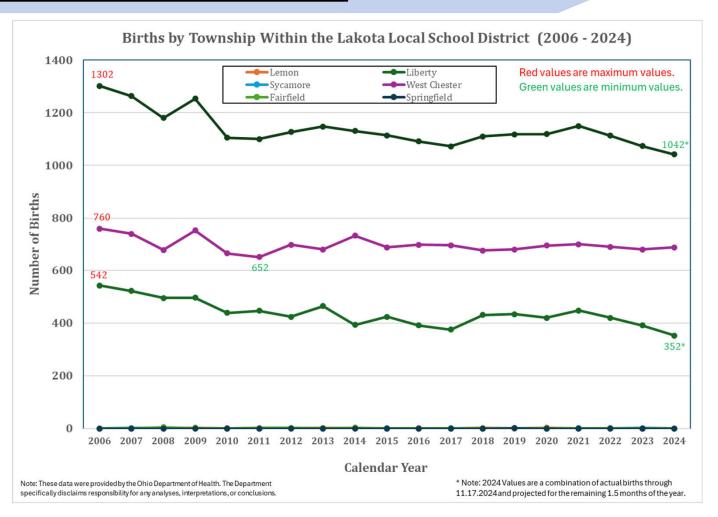
GENERATIONAL CYCLE



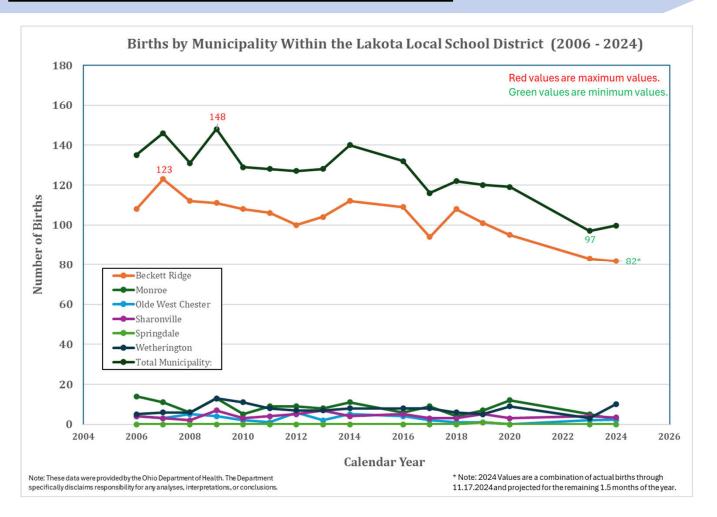
BIRTH DATA IN LLSD



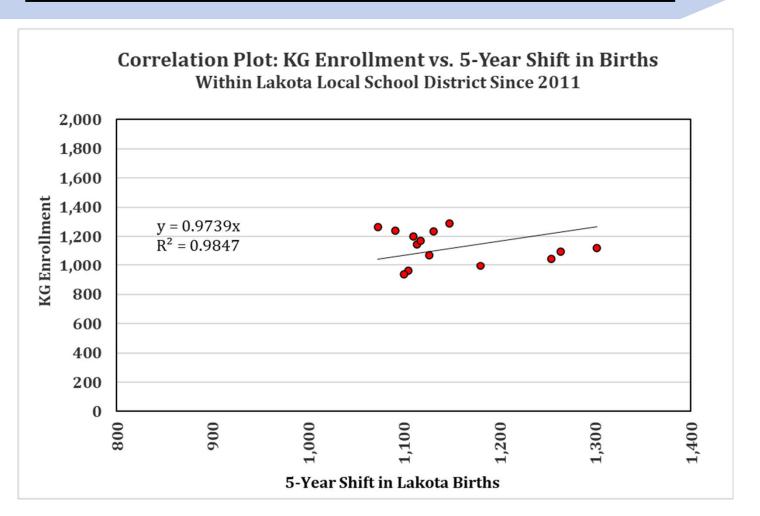
BIRTH DATA IN LLSD



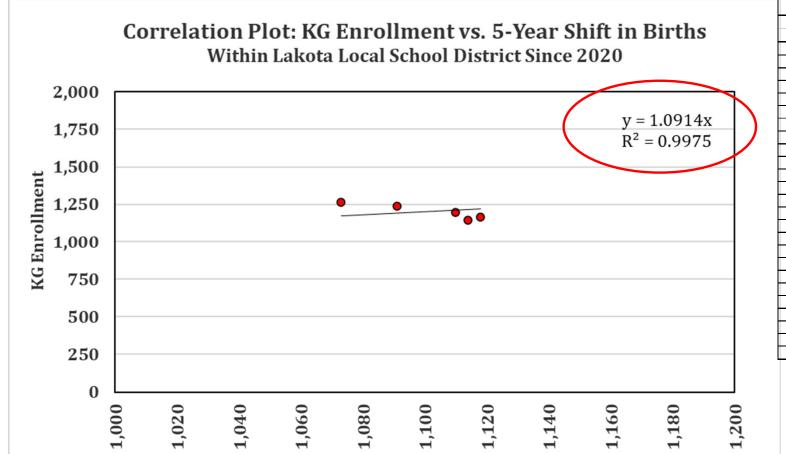
BIRTH DATA IN LLSD



BIRTHS & KG ENROLLMENT IN LLSD



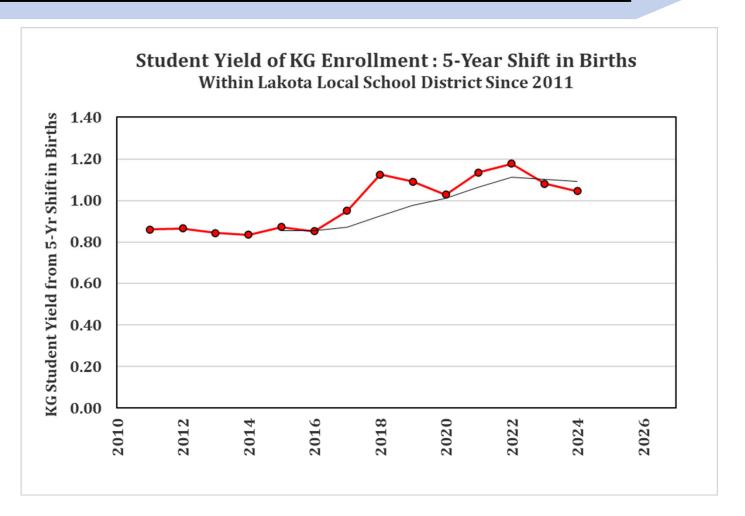
BIRTHS & KG ENROLLMENT IN LLSD



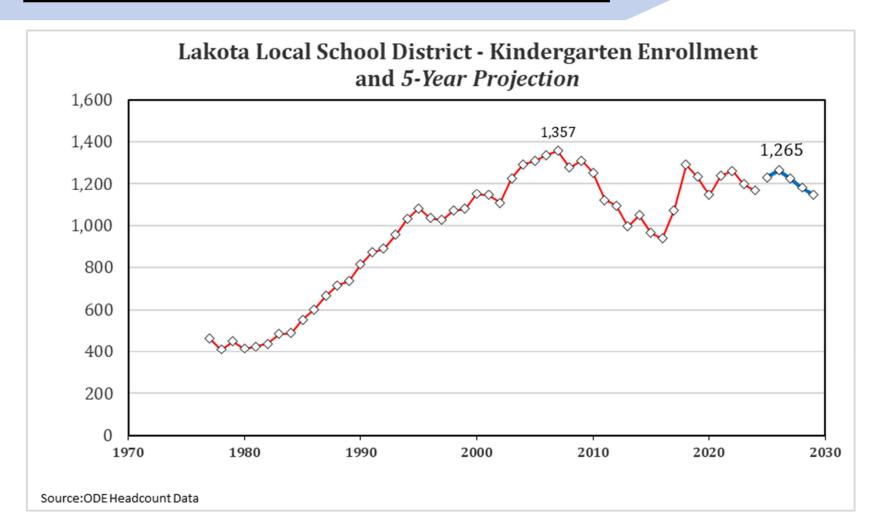
5-Year Shift in Lakota Births

Lakota	Births	5-Yr SHIF	T in Births	KG Enr	ollment
	LLSD		LLSD		LLSD
Year	Births	Year	Births	Year	KG
2006	1,302	2006		2006	1,337
2007	1,264	2007		2007	1,357
2008	1,180	2008		2008	1,277
2009	1,254	2009		2009	1,311
2010	1,105	2010		2010	1,254
2011	1,100	2011	1,302	2011	1,121
2012	1,127	2012	1,264	2012	1,095
2013	1,148	2013	1,180	2013	996
2014	1,131	2014	1,254	2014	1,048
2015	1,114	2015	1,105	2015	964
2016	1,091	2016	1,100	2016	938
2017	1,073	2017	1,127	2017	1,072
2018	1,110	2018	1,148	2018	1,291
2019	1,118	2019	1,131	2019	1,234
2020	1,119	2020	1,114	2020	1,146
2021	1,150	2021	1,091	2021	1,238
2022	1,113	2022	1,073	2022	1,263
2023	1,074	2023	1,110	2023	1,199
2024	1,042	2024	1,118	2024	1,168
2025		2025	1,119	2025	
2026		2026	1,150	2026	
2027		2027	1,113	2027	
2028		2028	1,074	2028	
2029		2029	1,042	2029	
2030		2030		2030	

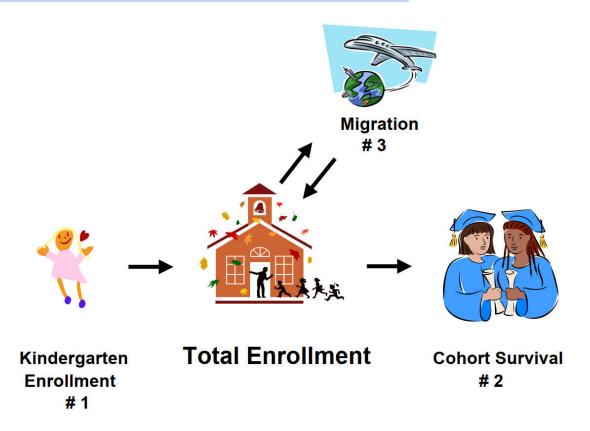
BIRTHS & KG ENROLLMENT IN LLSD



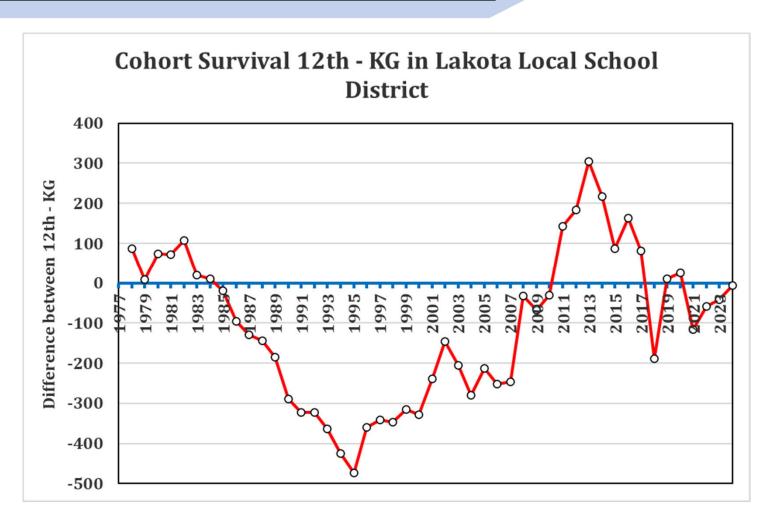
KG ENROLLMENT DATA FOR LLSD



ENROLLMENT EQUATION

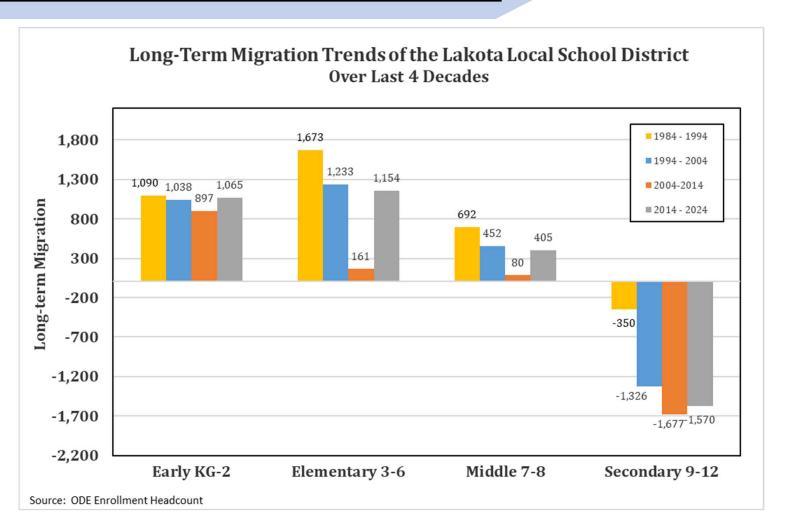


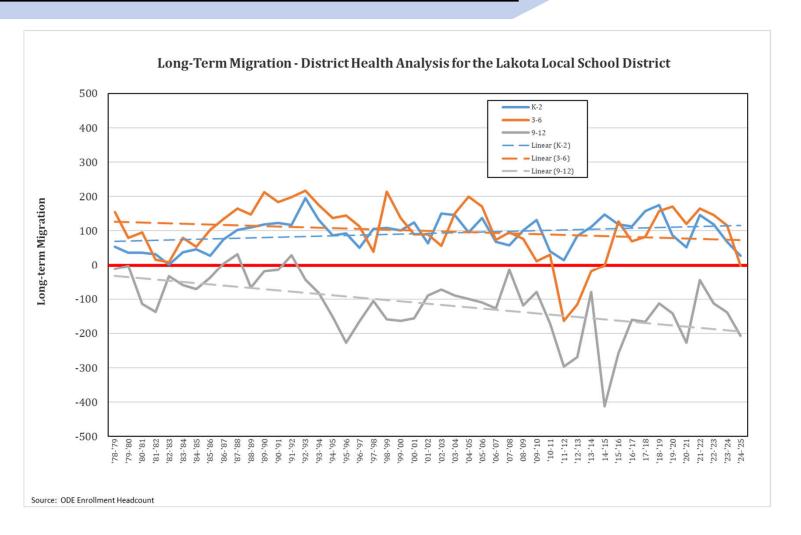
Incoming Students \pm Net Migration of Students - Outgoing Students = Total Enrollment

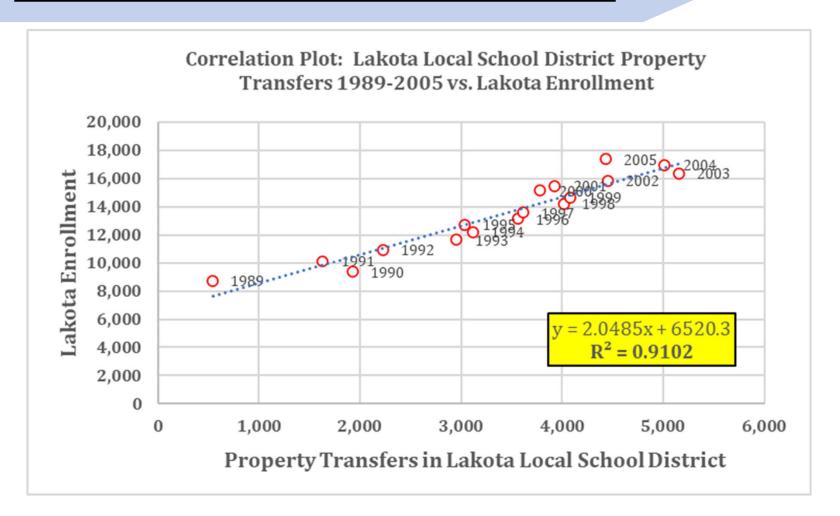


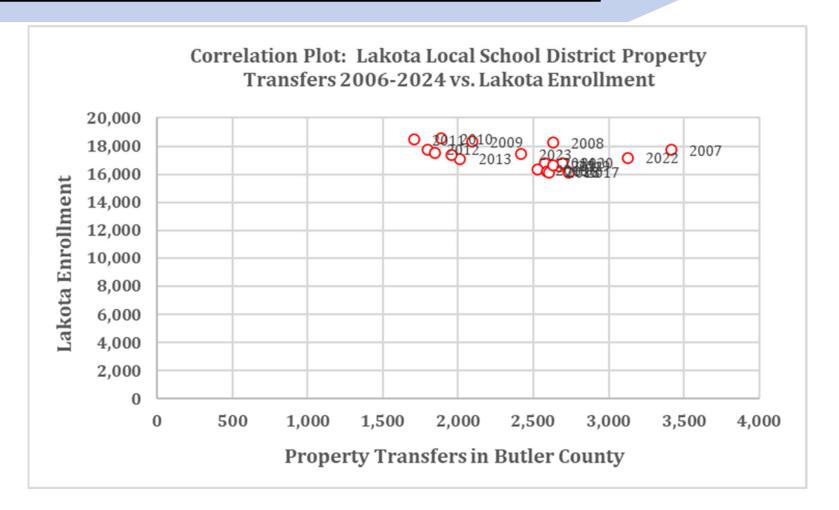
Net Migration Lakota Local School District																	
Year	K-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	K-2	3-6	7-8	9-12	Total
'77-'78	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
'78-'79	9	45	16	64	37	38	25	39		-10	4	-43	54	155	64	-12	261
'79-'80	18	18	34	17	13	16	45	27	-13	33	-6	-17	36	80	72	-3	185
'80-'81	26	10	20	12	25	38	34	28	-37	-7	-22	-48	36	95	62	-114	79
'81-'82	35	-3	6	12	-6	4	18	-7		-56	-21	-51	32	16	11	-137	-78
'82-'83	1	1	-17	29	-11	8	-6	1	-35	-15	38	-21	2	9	-5	-33	-27
'83-'84	17	21	26	12	21	21	19	21	-50	14	1	-24	38	80	40	-59	99
'84-'85	35	12	21	25	10	-3	18	17	-46	-4	14	-35	47	53	35	-71	64
'85-'86	18	10	27	25	17	34	22	11	-42	10	4	-9	28	103	33	-37	127
'86-'87	54	21	38	40	35	21	20	27	11	2	5	-13	75	134	47	5	261
'87-'88	73	30	48	52	39	26	32	39		10	22	-11	103	165	71	32	371
'88-'89	80	30	42	49	33	23	50	26	-1	-6	-17	-43	110	147	76	-67	266
'89-'90	64	55	52	60	57	44	55	9		-11	23	-39	119	213	64	-18	378
'90-'91	90	33	48	49	36	51	33	29	20	-21	4	-18	123	184	62	-15	354
'91-'92	73	44	24	60	67	47	77	52	-1	11	14	5	117	198	129	29	473
'92-'93	111	85	54	66	46	51	72	4	4	-1	-38	-9	196	217	76	-44	445
'93-'94	71	61	38	62	37	38	44	42	7	-74	-14	-2	132	175	86	-83	310
'94-'95	32	55	0	34	31	72	41	7	-29	-38	-30	-55	87	137	48	-152	120
'95-'96	42	51	42	24	35	44	21	20	-60	-107	-54	-6	93	145	41	-227	52
'96-'97	51	0	19	14	60	20	3	18	-37	-61	-22	-45	51	113	21	-165	20
'97-'98	68	37	24	0	4	11	10	16	-81	48	-19	-53	105	39	26	-105	65
'98-'99	93	16	74	42	38	60	40	35	-51	144	-182	-70	109	214	75	-159	239
'99-'00	69	32	54	15	49	19	30	3	-66	104	-141	-61	101	137	33	-164	107
'00-'01	103	21	8	34	26	22	30	26	-91	126	-126	-65	124	90	56	-156	114
'01-'02	60	3	12	46	21	11	23	17	-57	113	-101	-44	63	90	40	-89	104
'02-'03	118	32	18	14	-3	27	18	-6	-23	139	-106	-82	150	56	12	-72	146
'03-'04	92	54	20	43	42	45	33	45	-5	57	-56	-85	146	150	78	-89	285
'04-'05	74	22	24	56	59	60	42	28	-38	10	51	-123	96	199	70	-100	265
'05-'06	113	24	53	26	62	30	27	22	-34	22	62	-160	137	171	49	-110	247
'06-'07	73	-5	31	-1	11	33	35	21	-29	9	76	-183	68	74	56	-127	71
'07-'08	68	-10	39	38	13	5	60	19	-23	47	137	-175	58	95	79	-14	218
08-'09	61	40	15	23	-2	41	5	-7	-28	14	81	-185	101	77	-2	-118	58
'09-'10	111	21	-10	-2	2	22	17	20	-15	21	103	-188	132	12	37	-79	102
'10-11	55	-15	1	-2	18	14	17	-2	-42	-16	54	-167	40	31	15	-171	-85
'11-'12	5	10	-38	-49	-33	-44	-43	-31	-96	-41	-2	-158	15	-164	-74	-297	-520
'12-'13	71	15	-60	-42	-26	13	-49	-14	-114	-55	33	-133	86	-115	-63	-269	-361
'13-'14	130	-18	2	6	-14	-12	-4	-6	-52	-5	70	-93	112	-18	-10	-80	
14-'15	139	9	14	-10	-23	17	0	-7	-65	-45	-90	-212	148	-2	-7	-412	-273
'15-'16	121	-2	49	18	40	21	-9	-8		-28	-101	-91	119	128	-17	-258	-28
'16-'17	92	21	16	17	5	32	1	18	-26	6	-70	-71	113	70	19	-161	41
17-'18	134	24	24	15		22	-22	15	-	1	-86	-37	158	83	-7	-166	68
'18-'19	132	43	80	24	31	22	46	22		39	-121	-40	175	157	68	-113	287
'19-'20	59	28	39	12	49	70	45	37	-39	44	-119	-28	87	170	82	-142	197
'20-'21	38	14	10	24	41	45	20	19	-25	33	-176	-59	52	120	39	-227	-16
'21-'22	116	30	7	58	58	42	33	41	99	-2	-134	-8	146	165	74	-45	340
'22-'23	96	23	54	35	38	19	63	17	75	-29	-118	-40	119	146	80	-112	233
'23-'24	56	12	28	24	40	24	23	20	46	-34	-141	-10	68	116	43	-139	88
							20										

Year	K-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
'77-'78				<u> </u>	''							
'78-'79	1.9%	9.3%	3.0%	13.7%	8.4%	7.9%	4.7%	7.4%	6.8%	-1.8%	0.8%	-8.6%
'79-'80	4.4%	3.8%	6.4%	3.1%	2.5%	3.3%	8.7%	4.9%	-2.3%	5.6%	-1.1%	-3.4%
'80-'81	5.8%	2.3%	4.1%	2.1%	4.4%	7.0%	6.9%	5.0%	-6.4%	-1.3%	-3.6%	-8.8%
'81-'82	8.4%	-0.6%	1.4%	2.1%	-1.0%	0.7%	3.1%	-1.3%	-1.5%	-10.3%	-3.8%	-8.6%
'82-'83	0.4%	0.2%	-3.6%	6.5%	-2.1%	1.4%	-1.0%	0.2%	-6.7%	-2.6%	7.8%	-4.0%
'83-'84	3.9%	4.9%	5.8%	2.6%	4.4%	4.1%	3.3%	3.5%	-8.3%	2.9%	0.2%	-4.6%
'84-'85	7.2%	2.6%	4.7%	5.2%	2.1%	-0.6%	3.4%	2.9%	-7.5%	-0.7%	2.8%	-6.2%
'85-'86	3.7%	1.9%	5.8%	5.3%	3.4%	7.1%	4.5%	2.0%	-6.9%	1.8%	0.7%	-1.7%
'86-'87	9.8%	4.1%	7.2%	8.1%	7.1%	4.0%	3.9%	5.3%	2.0%	0.4%	0.7%	-2.4%
'87-'88	12.1%	5.0%	9.1%	9.2%	7.1%	4.0%	5.9%	7.3%	2.0%	1.8%	3.8%	-2.4%
'88-'89	12.1%	4.5%	6.6%	8.5%	5.3%	4.9%	9.0%	4.5%		-1.1%	-2.9%	-7.2%
'89-'90	9.0%	7.4%	7.4%	8.8%	9.1%	6.7%	9.0%	1.5%	-0.2% 1.5%	-1.1%	-2.9% 4.2%	-6.9%
'90-'91	12.2%	4.2%	6.0%	6.5%	4.9%	7.5%	9.2% 4.7%	4.5%	3.3%	-3.5%	0.7%	-3.2%
			0.0									
'91-'92	9.0%	5.3%	3.0%	7.1%	8.3%	6.1%	10.5%	7.1%	-0.1%	1.7%	2.4%	0.9%
'92-'93	12.7%	9.6%	6.2%	7.9%	5.1%	5.8%	8.8%	0.5%	0.5%	-0.1%	-5.9%	-1.5%
'93-'94	8.0%	6.2%	3.9%	6.7%	4.1%	4.0%	4.8%	4.7%	0.9%	-9.4%	-2.1%	-0.3%
'94-'95	3.4%	5.7%	0.0%	3.4%	3.1%	7.7%	4.1%	0.7%	-3.1%	-4.6%	-4.2%	-8.3%
'95-'96	4.1%	5.2%	4.1%	2.3%	3.3%	4.3%	2.1%	1.9%	-6.2%	-11.8%	-6.9%	-0.9%
'96-'97	4.7%	0.0%	1.8%	1.3%	5.6%	1.9%	0.3%	1.7%	-3.5%	-6.7%	-2.8%	-6.2%
'97-'98	6.6%	3.3%	2.2%	0.0%	0.4%	1.0%	0.9%	1.5%	-7.7%	4.7%	-2.2%	-6.8%
'98-'99	9.1%	1.5%	6.3%	3.8%	3.6%	5.6%	3.5%	3.2%	-4.7%	14.9%	-17.1%	-8.4%
'99-'00	6.4%	2.9%	4.8%	1.2%	4.3%	1.7%	2.6%	0.3%	-5.8%	10.1%	-12.7%	-6.9%
'00-'01	9.5%	1.8%	0.7%	2.9%	2.1%	1.9%	2.7%	2.2%	-7.7%	11.7%	-11.1%	-6.7%
'01-'02	5.2%	0.3%	1.0%	4.0%	1.7%	0.9%	1.9%	1.5%	-4.8%	10.3%	-8.4%	-4.4%
'02-'03	10.3%	2.6%	1.5%	1.2%	-0.2%	2.2%	1.4%	-0.5%	-2.0%	12.2%	-8.8%	-7.4%
'03-'04	8.3%	4.3%	1.6%	3.6%	3.5%	3.7%	2.6%	3.4%	-0.4%	5.0%	-4.4%	-7.7%
'04-'05	6.0%	1.8%	1.8%	4.4%	4.7%	4.9%	3.4%	2.2%	-2.8%	0.8%	4.3%	-10.1%
'05-'06	8.7%	1.8%	4.3%	1.9%	4.7%	2.3%	2.1%	1.7%	-2.6%	1.7%	5.0%	-12.8%
'06-'07	5.6%	-0.4%	2.3%	-0.1%	0.8%	2.4%	2.6%	1.6%	-2.2%	0.7%	5.7%	-14.2%
'07-'08	5.1%	-0.7%	2.8%	2.8%	1.0%	0.4%	4.2%	1.4%	-1.7%	3.7%	10.6%	-12.3%
08-'09	4.5%	2.8%	1.1%	1.6%	-0.1%	3.2%	0.4%	-0.5%	-2.0%	1.1%	6.1%	-13.0%
'09-'10	8.7%	1.5%	-0.7%	-0.1%	0.1%	1.6%	1.3%	1.4%	-1.0%	1.5%	7.8%	-13.3%
'10-11	4.2%	-1.1%	0.1%	-0.1%	1.3%	1.0%	1.2%	-0.1%	-3.0%	-1.1%	3.9%	-11.7%
11-'12	0.4%	0.7%	-2.8%	-3.4%	-2.3%	-3.1%	-2.9%	-2.2%	-7.1%	-3.0%	-0.1%	-11.0%
'12-'13	6.3%	1.2%	-4.4%	-3.1%	-1.9%	0.9%	-3.6%	-1.0%	-8.1%	-4.4%	2.5%	-9.3%
'13-'14	11.9%	-1.5%	0.2%	0.5%	-1.1%	-0.9%	-0.3%	-0.5%	-3.7%	-0.4%	5.9%	-6.8%
14-'15	14.0%	0.7%	1.2%	-0.8%	-1.7%	1.3%	0.0%	-0.5%	-5.0%	-3.3%	-7.0%	-16.8%
'15-'16	11.5%	-0.2%	4.0%	1.5%	3.2%	1.6%	-0.7%	-0.6%	-2.7%	-2.3%	-7.6%	-7.6%
'16-'17	9.5%	1.8%	1.4%	1.3%	0.4%	2.5%	0.1%	1.4%	-1.9%	0.4%	-5.8%	-5.8%
17-'18	14.3%	2.3%	2.0%	1.3%	1.7%	1.8%	-1.6%	1.1%	-3.4%	0.1%	-6.3%	-3.2%
'18-'19	12.3%	4.0%	7.4%	2.0%	2.7%	1.7%	3.7%	1.7%	0.7%	3.1%	-9.2%	-3.1%
'19-'20	4.6%	2.3%	3.5%	1.0%	4.0%	5.9%	3.3%	2.9%	-2.9%	3.3%	-9.2%	-2.3%
'20-'21	3.1%	1.0%	0.8%	2.1%	3.5%	3.5%	1.6%	1.4%	-1.9%	2.5%	-12.7%	-5.0%
'21-'22	10.1%	2.4%	0.5%	4.7%	4.9%	3.5%	2.5%	3.2%	7.0%	-0.2%	-10.1%	-0.7%
'22-'23	7.8%	1.8%	4.1%	2.6%	2.9%	1.5%	5.0%	1.2%	5.7%	-1.9%	-9.2%	-3.3%
'23-'24	4.4%	0.9%	2.2%	1.8%	2.8%	1.8%	1.8%	1.5%	3.3%	-2.4%	-9.5%	-0.9%
'24-'25	3.8%	-1.4%	-0.4%	-0.1%	0.4%	0.0%	0.0%	1.9%	0.6%	-2.8%	-9.9%	-2.9%









Lakota Local School District Property Transfers

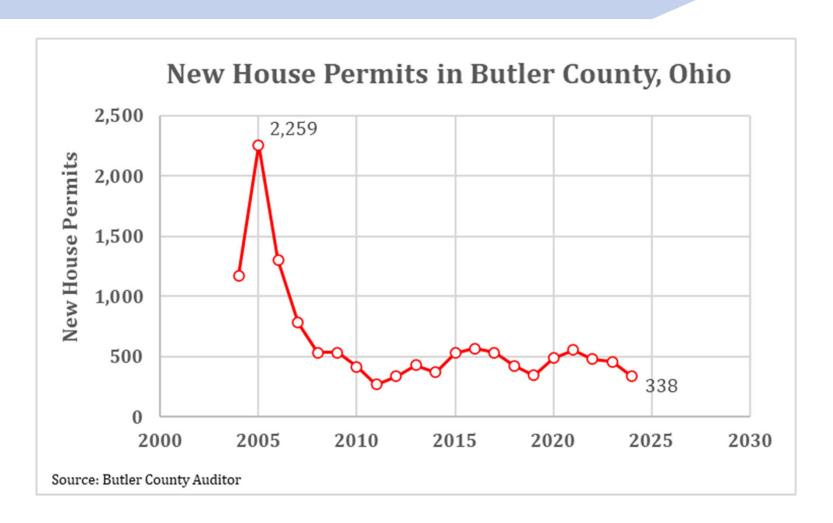
	i Locui			District Nun	-		
		Lihert	ty Twp		st Chester T	`wn	
		D20	D70	M55	M56	M74	
Year	Total # of Propery Transfers in LLSD	Liberty Twp / LLSD	Liberty Twp-Mon Corp/ LLSD	Fairfield City / LLSD	West Chester Twp / LLSD	West Chester Twp- Sharonville / LLSD	West Chester Twp:LibertyTwp Ratio
1985	2,416	65	11	0	2,340	0	30.79
1986	1,122	43	6	0	1,073	0	21.90
1987	1,779	208	22	0	1,549	0	6.73
1988	1,616	267	45	0	1,304	0	4.18
1989	542	76	12	1	453	0	5.16
1990	1,929	317	56	1	1,554	1	4.17
1991	1,633	353	32	0	1,248	0	3.24
1992	2,224	620	47	6	1,551	0	2.33
1993	2,956	1,119	38	6	1,793	0	1.55
1994	3,117	1,216	37	0	1,864	0	1.49
1995	3,037	1,062	29	2	1,944	0	1.78
1996	3,566	1,107	33	2	2,424	0	2.13
1997	3,616	1,171	38	2	2,405	0	1.99
1998	4,014	1,383	34	3	2,594	0	1.83
1999	4,082	1,612	49	9	2,412	0	1.46
2000	3,785	1,606	36	1	2,142	0	1.31
2001	3,929	1,679	29	0	2,221	0	1.30
2002	4,452	2,056	32	7	2,357	0	1.13
2003	5,159	2,607	50	1	2,501	0	0.94
2004	5,016	2,247	35	2	2,731	1	1.20
2005	4,429	2,038	19	2	2,370	0	1.15

Lakota Local School District Property Transfers

		Liber	ty Twp		West Chester Twp					
		D20	D70	M55	M56	M74				
Year	Total # of Propery Transfers in LLSD	Liberty Twp / LLSD	Liberty Twp- Mon Corp/ LLSD	Fairfield City / LLSD	West Chester Twp / LLSD	West Chester Twp-Sharonville / LLSD	West Chester Twp:LibertyTwp Ratio			
2006	3,414	1,496	14	0	1,904	0	1.26			
2007	2,631	1,131	27	0	1,473	0	1.27			
2008	2,095	892	13	3	1,187	0	1.31			
2009	1,890	783	12	1	1,094	0	1.38			
2010	1,708	693	13	2	1,000	0	1.42			
2011	1,800	768	15	0	1,017	0	1.30			
2012	2,014	877	24	0	1,113	0	1.24			
2013	2,576	1,186	19	6	1,365	0	1.14			
2014	2,526	1,173	10	1	1,342	0	1.14			
2015	2,587	1,139	14	0	1,434	0	1.24			
2016	2,735	1,212	19	0	1,504	0	1.22			
2017	2,603	1,209	14	2	1,378	0	1.13			
2018	2,671	1,230	24	3	1,414	0	1.13			
2019	2,693	1,237	24	0	1,432	0	1.14			
2020	2,627	1,235	22	0	1,369	1	1.09			
2021	3,124	1,486	16	5	1,617	0	1.08			
2022	2,418	946	15	0	1,457	0	1.52			
2023	1,848	687	12	0	1,149	0	1.64			
2024	1,953	803	16	0	1133	1	1.38			
2025	233	82	0	0	151	0	1.84			



NEW HOUSE PERMITS IN BUTLER COUNTY

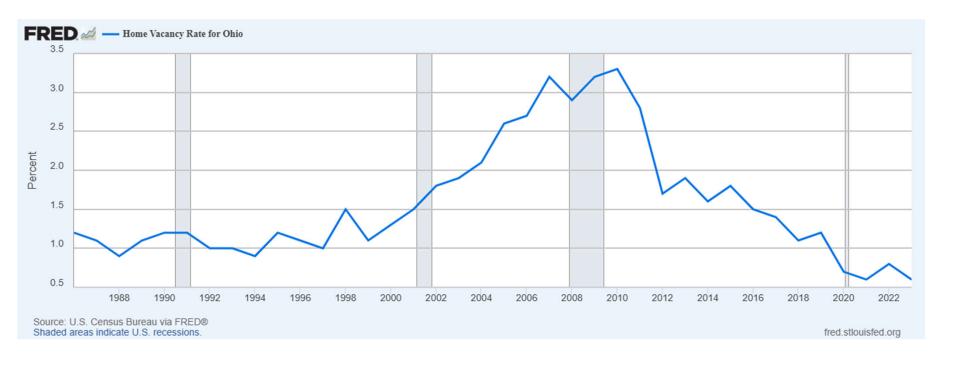


ECONOMIC DATA

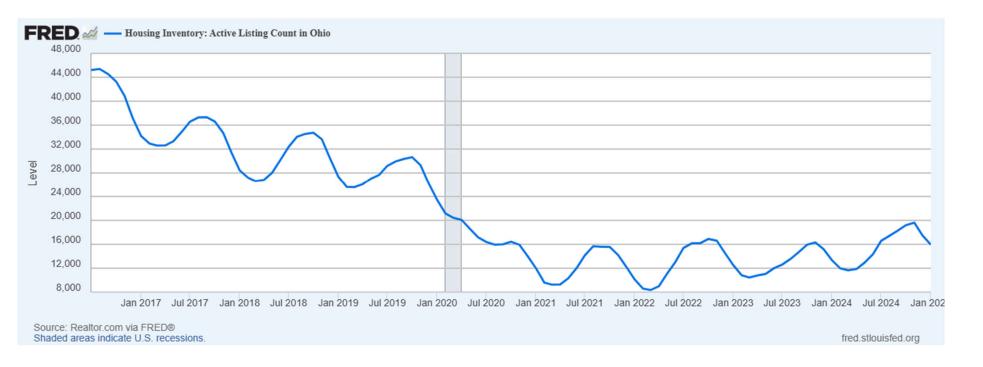




HOUSING DATA



HOUSING DATA

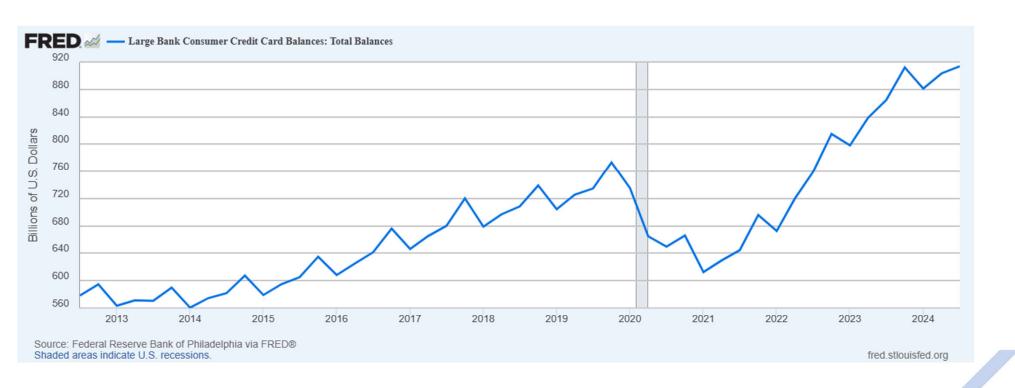


WAGE DATA

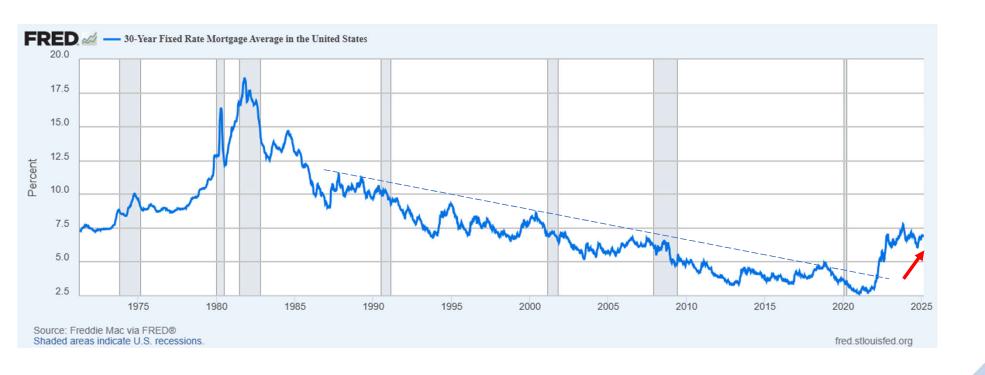




CREDIT CARD BALANCES



MORTGAGE RATE DATA



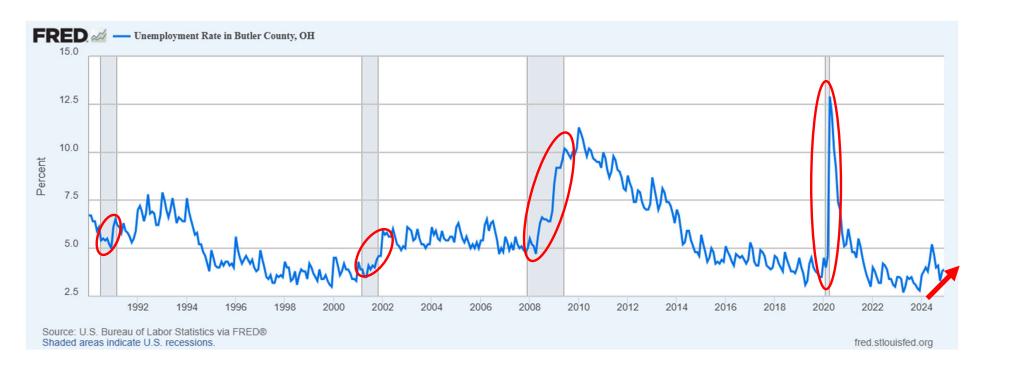
RENTAL VACANCY DATA



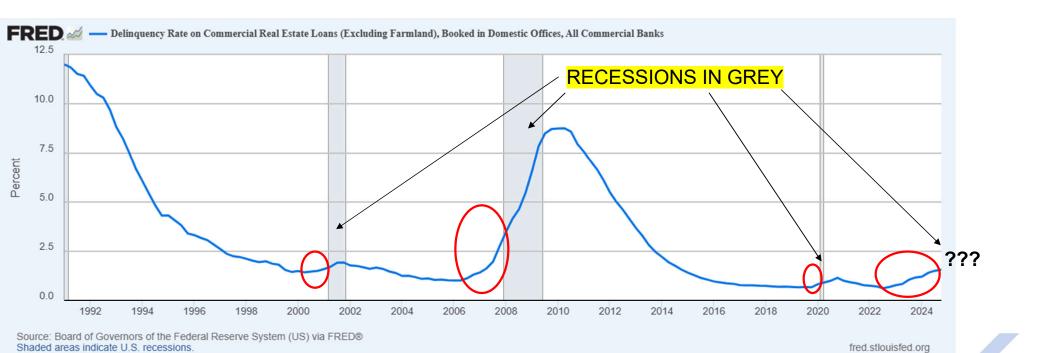
Source: U.S. Census Bureau via FRED® Shaded areas indicate U.S. recessions.

fred.stlouisfed.org

UNEMPLOYMENT RATE IN BUTLER COUNTY

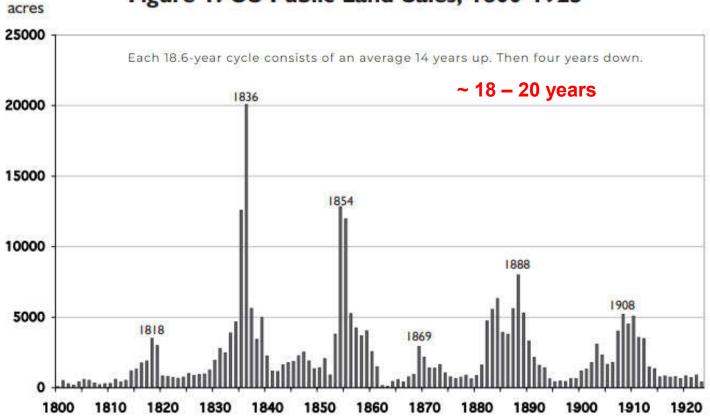


COMMERCIAL REAL ESTATE DATA

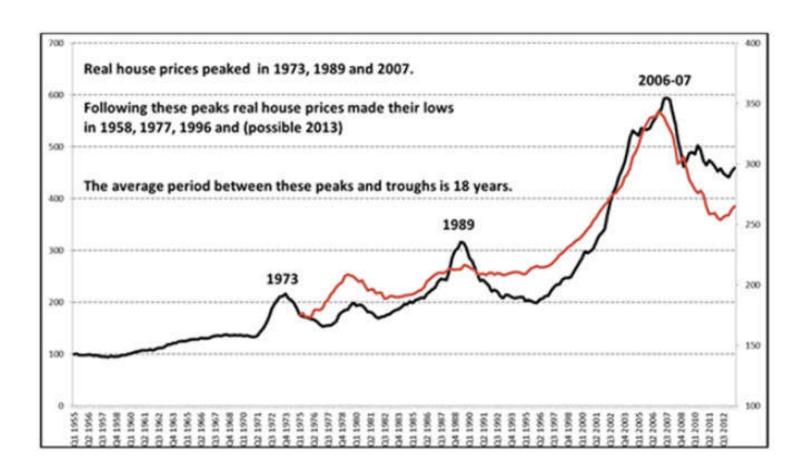


THE ECONOMIC CYCLE





THE ECONOMIC CYCLE



ECONOMIC INDICATORS OF THE CYCLE

2025-2026



ECONOMIC INDICATORS OF THE CYCLE



ECONOMIC INDICATORS OF THE CYCLE



2025 Stress Test Scenarios

February 2025



2025 Stress Test Severe Scenario

Unemployment: Rises to 10%

Inflation: Drops to 1.3%

Short-term Rates: Drops to 0.1% Long-term Rates: Drops to 1.0% Mortgage Rates: Drops to 3.2%

10-yr Treasuries: Rises to 5.0%

Asset Prices:

Equities: Drops 50%

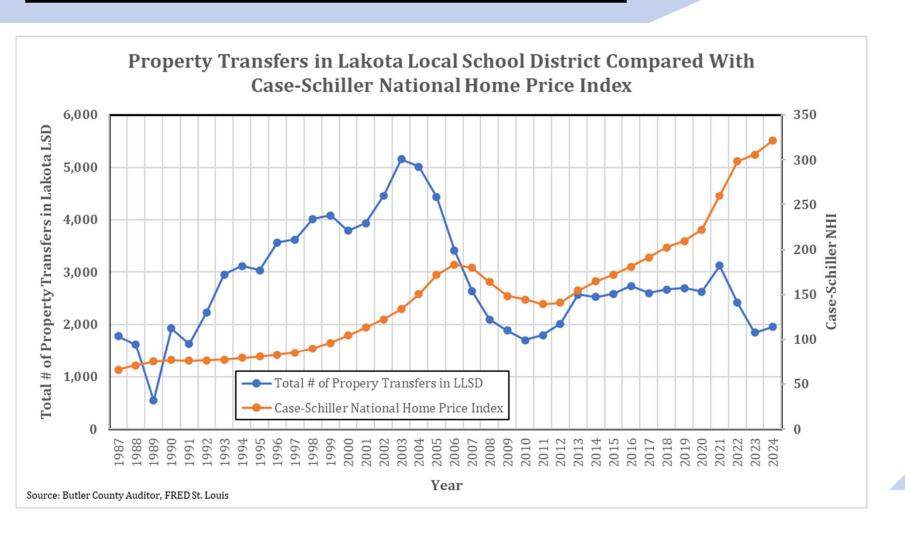
VIX: Rises 65%

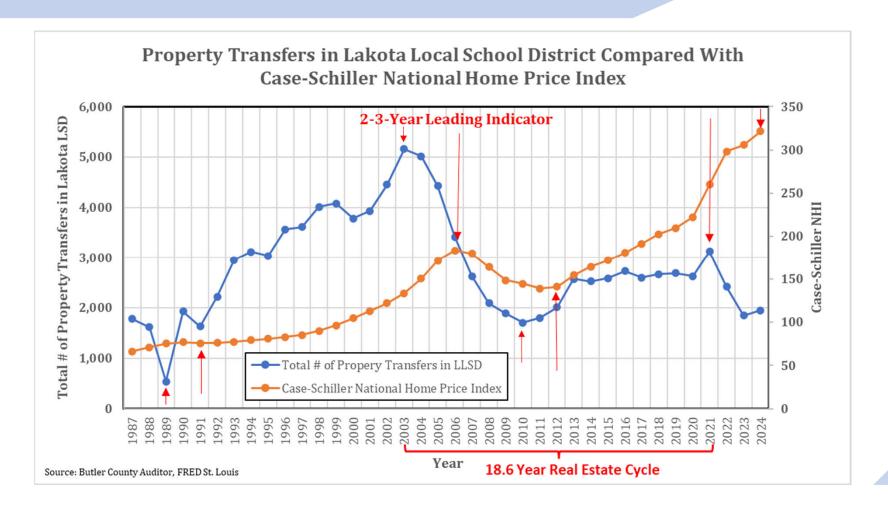
House Prices: Drops 33%

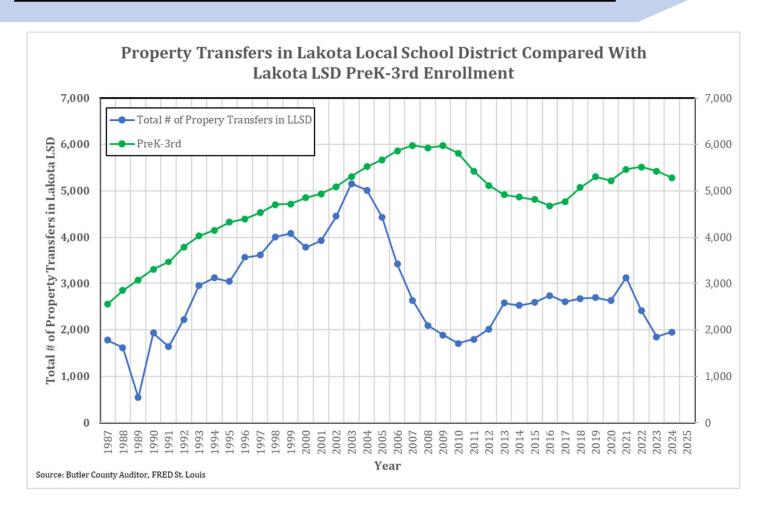
Commerical Real

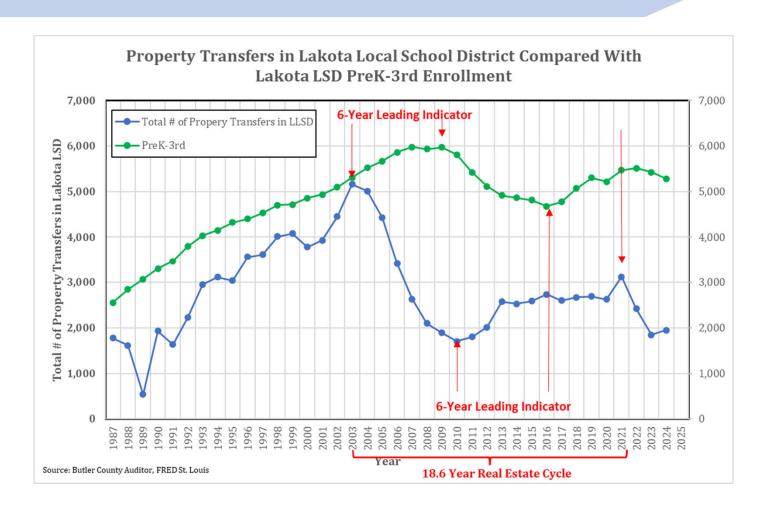
Estate Prices: Drops 30%



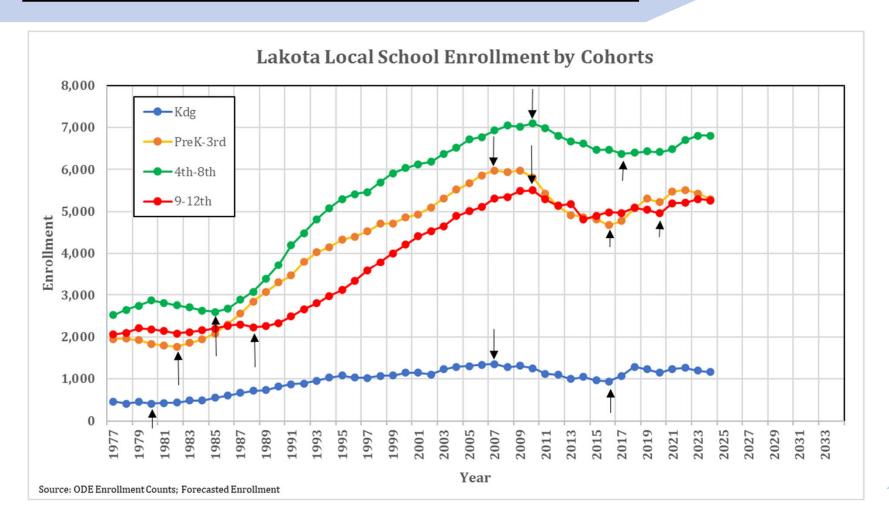




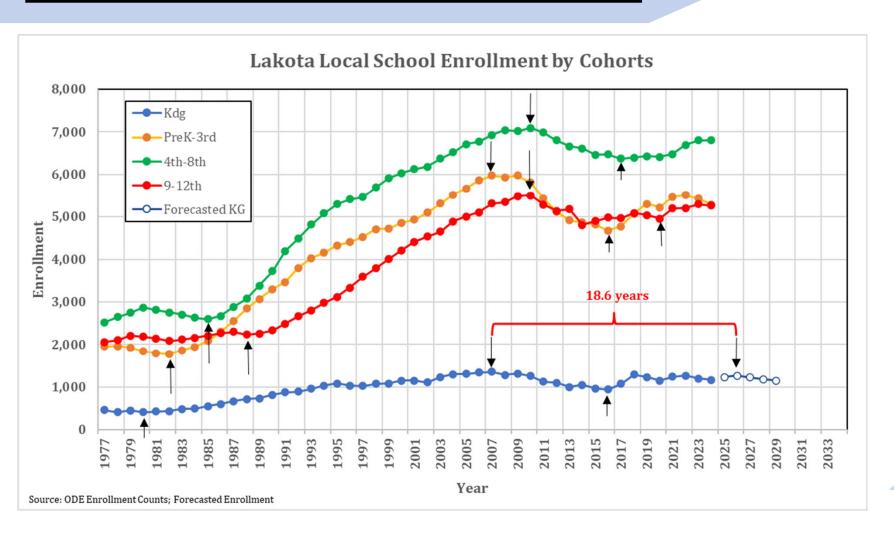




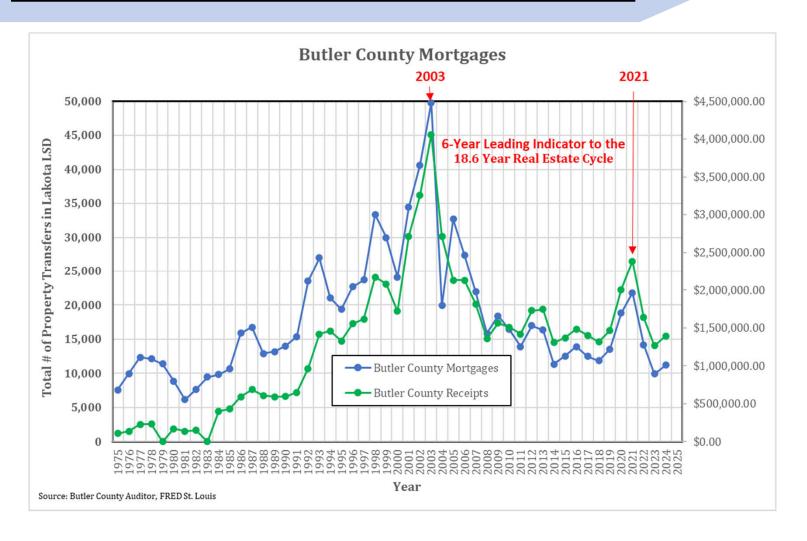
COHORT ENROLLMENT DATA IN LLSD



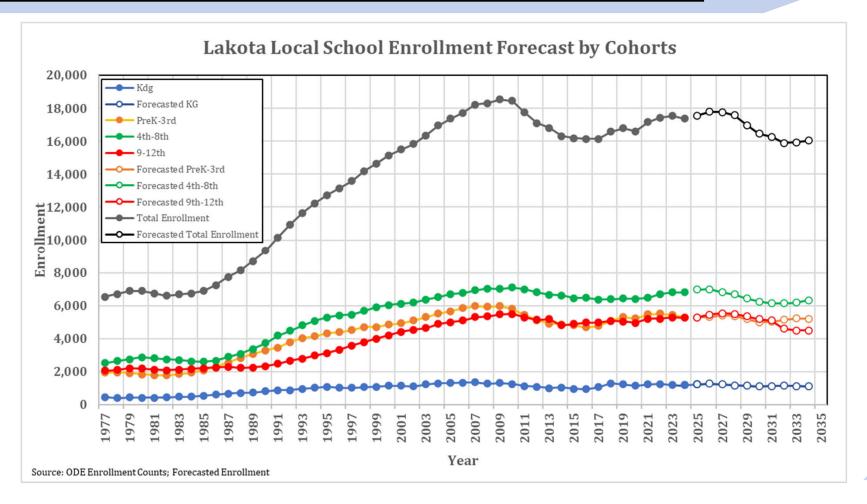
COHORT ENROLLMENT DATA IN LLSD



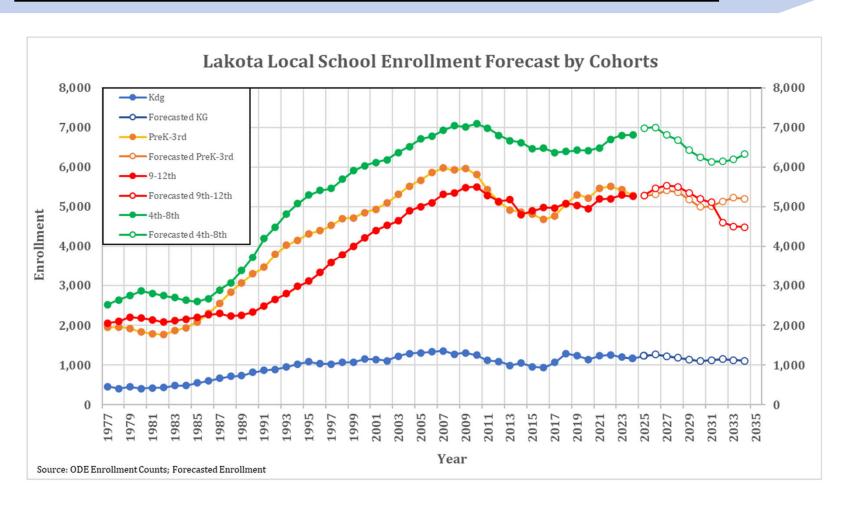
MORTGAGE DATA IN BUTLER COUNTY



DRAFT ENROLLMENT FORECAST



DRAFT ENROLLMENT FORECAST



ENROLLMENT BY PLANNING BLOCK

Planning Block	2020	2021	2022	2023	2024	Sparklines	20-Year Change	5-Year Change	3-Year Change	2-Year Change	1-Year Change	Real Estate Cycle (2007-2017)
1	783	800	800	840	803		185.77%	9.25%	0.38%	0.38%	-4.40%	46.68%
2	344	374	507	509	527		2191.30%	55.92%	40.91%	3.94%	3.54%	269.64%
3	51	53	53	54	57		714.29%	9.62%	7.55%	7.55%	5.56%	223.08%
4	183	188	191	188	205		220.31%	5.13%	9.04%	7.33%	9.04%	223.64%
5	638	642	645	660	669		70.23%	2.61%	4.21%	3.72%	1.36%	20.75%
6	747	723	884	936	975		178.57%	40.29%	34.85%	10.29%	4.17%	24.06%
7	313	301	360	353	346	~~	20.14%	7.12%	14.95%	-3.89%	-1.98%	-25.43%
8i	120	119	116	104	118	~	32.58%	-8.53%	-0.84%	1.72%	13.46%	28.40%
8i2	13	5	5	2	3			-40.00%	-40.00%	-40.00%	50.00%	
8v	516	556	544	510	506		47.09%	-20.06%	-8.99%	-6.99%	-0.78%	11.79%
9	272	291	333	325	308	/~~	57.95%	5.12%	5.84%	-7.51%	-5.23%	-17.63%
10	22	17	17	21	16	~~~	-66.67%	-11.11%	-5.88%	-5.88%	-23.81%	-66.00%
11c1	264	251	253	251	265		-31.35%	4.74%	5.58%	4.74%	5.58%	-32,88%
11c2	305	304	312	299	302		-38.24%	-9.31%	-0.66%	-3.21%	1.00%	-31.18%
11s	76	64	54	51	43	~~~	-50.57%	-27.12%	-32.81%	-20.37%	-15.69%	-10.96%
12	166	185	206	210	199		947.37%	15.70%	7.57%	-3.40%	-5.24%	588.24%
12c	1	1	3	4	2	^		100.00%	100.00%	-33.33%	-50.00%	
13	48	50	42	38	45	~~~	-23,73%	-4.26%	-10.00%	7.14%	18.42%	-13.64%
14	325	347	333	311	303	-	-45.41%	-13.92%	-12.68%	-9.01%	-2.57%	-33.70%
14w	0	0	0	0	0		j	-100.00%			į	#DIV/0!
15	28	26	26	21	32	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-13.51%	-3.03%	23.08%	23.08%	52.38%	45.00%
16	235	263	238	227	219		338.00%	-16.41%	-16.73%	-7.98%	-3.52%	59.86%
17	509	481	494	483	496		-24.27%	-0.40%	3.12%	0.40%	2.69%	-28.11%
18h1	175	182	192	185	192	~~	-15.79%	3.78%	5.49%	0.00%	3.78%	-23.14%
18h2	270	278	267	267	266	~	-40.09%	-10.14%	-4.32%	-0.37%	-0.37%	-43.02%
19	607	627	631	603	592	~~~	1.20%	-3.11%	-5.58%	-6.18%	-1.82%	-6.76%
20	611	633	630	640	622	~	-16.06%	-0.96%	-1.74%	-1.27%	-2.81%	-21.25%
21i	72	65	62	66	68	~~	-34.62%	-25.27%	4.62%	9.68%	3.03%	-22.61%
21w	250	263	267	257	255	~	-42.83%	-9.57%	-3.04%	-4.49%	-0.78%	-35.95%
22h	194	168	165	159	167	~~	-15.66%	-12.57%	-0.60%	1.21%	5.03%	-27.54%
22h2	0	0	0	0	0		Ĭ					
22i	5	12	10	11	11	~~~	-54.17%	37.50%	-8.33%	10.00%	0.00%	-73.33%
23	472	435	435	415	409	~~	123.50%	-12.04%	-5.98%	-5.98%	-1.45%	5.19%

ENROLLMENT BY PLANNING BLOCK

Planning	2020	2021	2022	2023	2024	Sparklines	20-Year	5-Year	3-Year	2-Year	1-Year	Real Estate Cycle
Block	2020	2021	2022	2023	2024	Sparklines	Change	Change	Change	Change	Change	(2007-2017)
24	0	0	0	0	0		-100.00%				11300	-100.00%
24e	311	352	326	333	330			2.80%	-6.25%	1.23%	-0.90%	
24f	371	375	435	432	457			25.55%	21.87%	5.06%	5.79%	
25u	524	506	482	489	500	~	-17.36%	-2.91%	-1.19%	3.73%	2.25%	-24.15%
25w	284	303	310	309	318	~~	2.25%	4.26%	4.95%	2.58%	2.91%	-17.99%
26h	258	220	236	222	225	~~~	-27.65%	-5.46%	2.27%	-4.66%	1.35%	-16.10%
26u	52	43	44	46	36			-26.53%	-16.28%	-18.18%	-21.74%	
26w	26	38	42	41	50	~~~	13.64%	92.31%	31.58%	19.05%	21.95%	12.20%
27	829	865	890	922	913		189.84%	13.70%	5.55%	2.58%	-0.98%	26.70%
28f	130	150	161	167	157	~~~	4.67%	28.69%	4.67%	-2.48%	-5,99%	-14.29%
28h	171	157	170	155	163	~~~	18.12%	-5.23%	3.82%	-4.12%	5.16%	-9.39%
29	557	556	575	564	583	~	-18.35%	14.54%	4.86%	1.39%	3.37%	-31.36%
30f	215	220	242	242	220	~~	-41.18%	-7.95%	0.00%	-9.09%	-9.09%	-40.35%
30f2	71	83	80	78	87			-11.22%	4.82%	8.75%	11.54%	
30u	166	162	153	150	145	~~	-33.49%	-17.61%	-10.49%	-5.23%	-3.33%	-35.58%
31	699	723	752	840	835	~	-0.95%	17,44%	15.49%	11.04%	-0.60%	-18.70%
32	301	286	279	277	295	~~~	13.03%	6.12%	3.15%	5.73%	6.50%	-4.44%
33	629	582	570	570	557	~~	-1.24%	1.27%	-4.30%	-2.28%	-2.28%	-10.53%
34	399	376	374	381	380	~~	-20.67%	2.15%	1.06%	1.60%	-0.26%	-29.10%
35a	42	35	20	33	39	~~	-76.07%	0.00%	11.43%	95.00%	18.18%	-93.66%
35a2	330	335	362	372	359			6.21%	7.16%	-0.83%	-3.49%	
35f1	81	103	112	114	108		730.77%	33.33%	4.85%	-3.57%	-5.26%	242.86%
35f2	455	445	457	457	474	~~~	33.90%	8.47%	6.52%	3.72%	3.72%	-0.77%
35f3	0	0	0	0	0		-					
36	38	44	45	45	57	~	119.23%	39.02%	29.55%	26.67%	26.67%	8.33%
37a	21	14	20	24	23	~~~	21.05%	43,75%	64.29%	15.00%	-4.17%	-66.67%
37f	82	90	85	91	107	~~	0.94%	30.49%	18.89%	25.88%	17.58%	-28.81%
38a	351	338	361	366	367	~~~	-14.25%	2.23%	8.58%	1.66%	0.27%	-22.64%
38h	98	83	108	106	115	~~~	17.35%	25.00%	38.55%	6.48%	8.49%	-6.38%
39a	312	322	425	437	455		66.06%	53.72%	41.30%	7.06%	4.12%	-9.77%
39h	139	144	137	130	135		-40.53%	-10.60%	-6.25%	-1.46%	3.85%	-43.30%
40	227	204	200	217	246		3.80%	20.59%	20.59%	23.00%	13.36%	-17.17%
41	183	201	203	221	239	~~	11.16%	35.03%	18.91%	17.73%	8.14%	-21.40%
42	396	358	359	358	351	~	-35.83%	-6.40%	-1.96%	-2.23%	-1.96%	-41.09%
43	293	337	333	334	360	~~~	-9.55%	20.81%	6.82%	8.11%	7.78%	-22.16%

NET MIGRATION BY PLANNING BLOCK

Plan Block 1

3 36 18	3 18	4 34	5	6	10	- 2	100													
7.5	18	34			10	9	7	0	0	12	10	8	12	14	26	11	14	17	12	11
18		1000	32	33	42	39	29	24	29	35	31	36	50	47	63	71	56	65	77	65
	38	21	43	40	43	48	41	43	41	30	61	40	47	64	53	76	67	57	60	73
20	23	38	31	50	39	47	50	40	45	41	30	61	40	58	66	51	71	65	61	67
25	23	25	40	36	50	48	43	55	42	50	45	34	62	42	59	81	53	64	61	57
17	32	29	31	41	37	59	48	43	57	44	52	44	37	64	44	69	74	51	67	58
23	23	32	32	36	49	46	56	46	44	49	48	48	44	44	65	51	61	69	55	62
23	22	27	37	28	42	51	46	53	47	41	47	49	51	46	56	71	58	59	71	51
21	31	18	31	39	28	43	45	47	54	51	45	47	40	60	45	59	68	57	61	69
34	28	32	21	42	41	34	45	42	49	58	46	41	39	45	65	48	62	65	60	53
15	32	22	32	22	41	44	32	43	39	44	54	46	42	45	51	54	54	65	71	64
16	10	26	24	31	27	47	38	28	39	38	40	55	46	53	51	49	66	51	66	66
14	16	13	37	26	37	42	50	48	30	42	45	44	51	47	45	43	41	71	51	61
15	13	13	9	21	16	23	36	36	41	35	36	34	36	55	42	46	50	39	61	44
1	3	1	2	1	1	2	2	2	2	0	0	0	0	3	4	3	5	5	6	2
281	315	335	407	452	503	582	568	550	559	570	590	587	597	687	735	783	800	800	840	803
	34	20	72	45	51	79	-14	-18	9	11	20	-3	10	90	48	48	17	0	40	-37
	12.1%	6.3%	21.5%	11.1%	11.3%	15.7%	-2.4%	-3.2%	1.6%	2.0%	3.5%	-0.5%	1.7%	15.1%	7.0%	6.5%	2.2%	0.0%	5.0%	-4.4%
	25 17 23 23 21 34 15 16 14 15 1 281	25 23 17 32 23 23 23 22 21 31 34 28 15 32 16 10 14 16 15 13 1 3 281 315	25 23 25 17 32 29 23 23 32 23 22 27 21 31 18 34 28 32 15 32 22 16 10 26 14 16 13 15 13 13 1 3 1 281 315 335 34 20 12.1% 6.3%	25 23 25 40 17 32 29 31 23 23 32 32 23 22 27 37 21 31 18 31 34 28 32 21 15 32 22 32 16 10 26 24 14 16 13 37 15 13 13 9 1 3 1 2 281 315 335 407	25 23 25 40 36 17 32 29 31 41 23 23 32 32 36 23 22 27 37 28 21 31 18 31 39 34 28 32 21 42 15 32 22 32 22 16 10 26 24 31 14 16 13 37 26 15 13 13 9 21 1 3 1 2 1 281 315 335 407 452 34 20 72 45 12.1% 6.3% 21.5% 11.1%	25 23 25 40 36 50 17 32 29 31 41 37 23 23 32 32 36 49 23 22 27 37 28 42 21 31 18 31 39 28 34 28 32 21 42 41 15 32 22 32 22 41 16 10 26 24 31 27 14 16 13 37 26 37 15 13 13 9 21 16 1 3 1 2 1 1 281 315 335 407 452 503 34 20 72 45 51 12.1% 6.3% 21.5% 11.1% 11.3%	25 23 25 40 36 50 48 17 32 29 31 41 37 59 23 23 32 36 49 46 23 22 27 37 28 42 51 21 31 18 31 39 28 43 34 28 32 21 42 41 34 15 32 22 32 22 41 44 16 10 26 24 31 27 47 14 16 13 37 26 37 42 15 13 13 9 21 16 23 1 3 1 2 1 1 2 281 315 335 407 452 503 582 34 20 72 45 51 79 <	25 23 25 40 36 50 48 43 17 32 29 31 41 37 59 48 23 23 32 32 36 49 46 56 23 22 27 37 28 42 51 46 21 31 18 31 39 28 43 45 34 28 32 21 42 41 34 45 15 32 22 32 22 41 44 32 16 10 26 24 31 27 47 38 14 16 13 37 26 37 42 50 15 13 13 9 21 16 23 36 1 3 1 2 1 1 2 2 281 315 335	25 23 25 40 36 50 48 43 55 17 32 29 31 41 37 59 48 43 23 23 32 32 36 49 46 56 46 23 22 27 37 28 42 51 46 53 21 31 18 31 39 28 43 45 47 34 28 32 21 42 41 34 45 42 15 32 22 32 22 41 44 32 43 16 10 26 24 31 27 47 38 28 14 16 13 37 26 37 42 50 48 15 13 13 9 21 16 23 36 36 1 3	25 23 25 40 36 50 48 43 55 42 17 32 29 31 41 37 59 48 43 57 23 23 32 36 49 46 56 46 44 23 22 27 37 28 42 51 46 53 47 21 31 18 31 39 28 43 45 47 54 34 28 32 21 42 41 34 45 47 54 34 28 32 21 42 41 34 45 42 49 15 32 22 32 22 41 44 32 43 39 16 10 26 24 31 27 47 38 28 39 14 16 13 37	25 23 25 40 36 50 48 43 55 42 50 17 32 29 31 41 37 59 48 43 57 44 23 23 32 32 36 49 46 56 46 44 49 23 22 27 37 28 42 51 46 53 47 41 21 31 18 31 39 28 43 45 47 54 51 34 28 32 21 42 41 34 45 47 54 51 34 28 32 21 42 41 34 45 42 49 58 15 32 22 32 22 41 44 32 43 39 44 16 10 26 24 31 27	25 23 25 40 36 50 48 43 55 42 50 45 17 32 29 31 41 37 59 48 43 57 44 52 23 23 32 32 36 49 46 56 46 44 49 48 23 22 27 37 28 42 51 46 53 47 41 47 21 31 18 31 39 28 43 45 47 54 51 45 34 28 32 21 42 41 34 45 47 54 51 45 34 28 32 21 42 41 34 45 42 49 58 46 15 32 22 32 22 41 44 32 43 39 38	25 23 25 40 36 50 48 43 55 42 50 45 34 17 32 29 31 41 37 59 48 43 57 44 52 44 23 23 32 36 49 46 56 46 44 49 48 48 23 22 27 37 28 42 51 46 53 47 41 47 49 21 31 18 31 39 28 43 45 47 54 51 45 47 34 28 32 21 42 41 34 45 47 54 51 45 47 34 28 32 22 32 22 41 44 32 43 39 44 54 46 16 10 26 24	25 23 25 40 36 50 48 43 55 42 50 45 34 62 17 32 29 31 41 37 59 48 43 57 44 52 44 37 23 23 32 32 36 49 46 56 46 44 49 48 48 44 23 22 27 37 28 42 51 46 53 47 41 47 49 51 21 31 18 31 39 28 43 45 47 54 51 45 47 40 34 28 32 21 42 41 34 45 42 49 58 46 41 39 15 32 22 32 22 41 44 32 43 39 34 40	25 23 25 40 36 50 48 43 55 42 50 45 34 62 42 17 32 29 31 41 37 59 48 43 57 44 52 44 37 64 23 23 32 32 36 49 46 56 46 44 49 48 48 44 44 23 22 27 37 28 42 51 46 53 47 41 47 49 51 46 21 31 18 31 39 28 43 45 47 54 51 45 47 40 60 34 28 32 21 42 41 34 45 42 49 58 46 41 39 45 15 32 22 32 22 41	25	25	25	25	25

Forecasts developed February 2025

Green cells (2024-25 and earlier) are historical Blue cells (2025-2026 and later) are forecasted
 2024-2025 PS-2nd:
 216
 27.0%
 1-yr Growth:
 -4.4%

 2024-2025 3rd-6th:
 228
 28.5%
 4-yr Average:
 0.7%

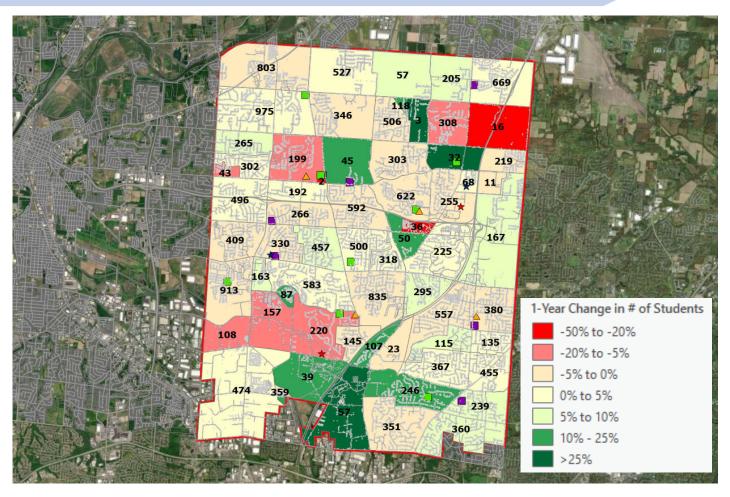
 2024-2025 7th-8th:
 122
 15.2%
 Historical Average Since 2004:
 5.6%

 2024-2025 9th-12th:
 235
 29.3%
 Historical Average (2009-2017):
 2.4%

NET MIGRATION BY PLANNING BLOCK

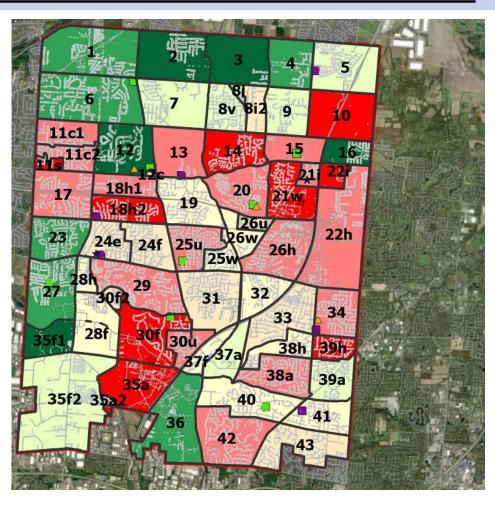
			×	x	3	x		x	x s	3		x	3		Plan B	lock 1		x	× × ×	x	3
	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
PS	-	-		-	-	-	-	-		-			-	-	-	-	-	-	-		
KG	-	- 4		-	-	-			-								-				2
1	-	2	3	9	8	10	6	2	14	17	1	26	9	11	14	6	13	-4	1	-5	
2	-	5	0	10	.7	-1	4	2	-1	2	0	0	0	0	11	2	-2	-5	-2	4	4
3	12	3	2	2	5	0	9	-4	5	2	5	4	4	1	2	1	15	2	-7	-4	
4		7	6	6	1	1	9	.0	0	2	2	2	-1	3	2	2	10	-7	-2	3	134
5		6	0	3	5	8	9	-3	-2	1	-8	4	-4	0	7	1	7	-8	-5	4	
6		-1	4	5	-4	6	2	0	-3	1	-3	-2	1	3	2	12	6	7	-2	2	100
7	-	8	-4	4	2	0	1	-6	1	1	4	4	0	-9	9	-1	3	-3	-1	2	-
8	-	7	1	3	11	2	6	2	-3	2	4	-5	-4	-8	.5	5	3	3	-3	3	-
9	-	-2	-6	0	1	-1	3	-2	-2	-3	-5	-4	0	1	6	6	-11	6	3	6	
10	-	-5	-6	2	-1	5	6	-6	-4	-4	-1	-4	1	0	11	6	-2	12	-3	1	194
11	12	0	3	11	2	6	15	3	10	2	3	7	4	-4	1	-8	-8	-8	5	0	
12		-1	-3	-4	-16	-10	-14	-6	-14	-7	5	-6	-11	-8	4	-5	1	7	-2	-10	-
23				-			-	-		- 9		9	- 9				-		9		
otal: PS- 23	8	29	0	51	21	26	56	-18	1	16	7	26	-1	-10	74	27	35	2	-18	6	-3
Change			-29	51	-30	5	30	-74	19	15	-9	19	-27	-9	84	-47	8	-33	-20	24	-4
	-																				

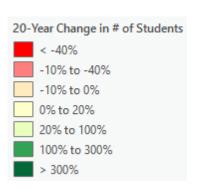
1-YEAR CHANGE CHLOROPLETH MAP WITH 2024 STUDENTS LABELED



20-YEAR CHANGE CHLOROPLETH MAP

WITH PLANNING BLOCKS LABELED





CONCLUSIONS

- Of all of the enrollment factors researched and presented in this study, the most influential factors
 driving the Lakota enrollment over this forecast period are the generational cycle and the economic
 (real estate) cycle. Both of these factors will strongly influence all three of the principal forecast parameters for school enrollment forecasting period.
- The current more populous **generational cycle**, Boomers (grandparents)-Millennials (parents)-Gen Alphas (children), contributed to the recent enrollment rise in the LLSD and is peaking in the next two years. The Gen X (grandparents)-Gen Z (parents)-Gen Betas (children) Generational cycle begins in 2025, resulting in less pressure on elementary enrollment, and thus total enrollment, in this forecast period.

CONCLUSIONS continued

- **Real estate cycles** typically last 18-20 years in length and the current one, which began after the previous cycle end in 2008, is forecasted to end early in this ten-year forecast period.
- A resulting decline in property transfers leads to less positive net migration, which is a principal
 parameter to enrollment increases in the district.

RECOMMENDATIONS

- Following a thorough sensitivity analysis, it is recommended that the district apply for research level access to *geocoded birth data*, which will improve the accuracy of small area forecasts.
- The district *should consider a plan* to monitor enrollment annually and update all datasets presented to assist in a data-driven, decision process for staff alignment and operational uses across the district.

RECOMMENDATIONS continued

 The district should view the enrollment forecast as a living document in a way similar to the five-year financial forecast, with an update every year to maximize the student experience through efficient planning and operation.

NEXT STEPS

- Incorporate Any Feedback, New Findings, Data Sources, & Insight
- Interpolate District Forecast to Generate Small Area Forecasts
- Finalize Report
- Finalize GIS

THANK YOU!

QUESTIONS???

