Raytown C-2 School District, Missouri

Demographic Study and Utilization Forecast Findings

May 2025

Presented by:
Matthew Cropper

Cropper GIS

Principal & Project Manager

Matthew Cropper

- More than 23 years experience providing K-12 consulting services to hundreds of school districts and other clients.
- Manages and Facilitates K-12 redistricting and facility planning projects across the U.S.
- Expert consultant for U.S. Department of Justice, Civil Rights Division
- Published numerous papers about using GIS in master planning and educational planning.

Demographer

Zoran Stojakovic

- Has worked on school planning projects for 100s of districts across the U.S.
- Specializes in demographic analysis and population/enrollment forecasting
- Strong background in technology / GIS and urban/regional planning
- Holds a Master's Degree in Applied Demography from Penn State University

Project Objectives

Cropper GIS Consulting was hired by Raytown C-2 School District to develop a demographic study, a utilization study of the district's current facilities and enrollment, and a utilization forecast based on the findings of the demographic study and the utilization study. All phases of this project have been completed.

Tonight's presentation is intended to:

- Highlight the findings of the Demographic Study
- Review the utilization tables based on current enrollment and building capacity
- Review the utilization forecast for each building based on enrollment trends

Demographic Study

Demographic Study

The population forecasts in the demographic study are developed by using the Cohort-Component Method of population forecasting. Five data sets are required to generate population and enrollment forecasts. These five data sets are:

a. a base-year population (here, the 2020 Census population for Raytown School District);

b. a set of age-specific fertility rates for the district to be used over the forecast period;

c. a set of age-specific survival (mortality) rates for the district;

d. a set of age-specific migration rates for the district;

e. the historical enrollment figures by grade.

Demographic Study

The population forecasts in the demographic study are developed by using the Cohort-Component Method of population forecasting. Five data sets are required to generate population and enrollment forecasts. These five data sets are:

1. a base-year population (here, the 2020 Census population for the District and each attendance area);

2. a set of age-specific fertility rates for the district and attendance areas to be used over the forecast period;

3. a set of age-specific survival (mortality) rates for the district and attendance areas;

4. a set of age-specific migration rates for the district and each attendance area;

5. the historical enrollment figures by school by grade.

Assumptions

a. The national, state or regional economy does not go into deep recession at any time during the 10 years of the forecasts; (Deep recession is defined as four consecutive quarters where the GDP contracts greater than 1% per quarter)

b. Interest rates have climbed from a historic low in 2020 and will not fluctuate more than one percentage point in the short term; the interest rate for a 30-year fixed home mortgage stays below 8.0%;

c. The rate of mortgage approval stays at 2015-2020 levels and lenders do not return to "sub-prime" mortgage practices;

d. There are no additional restrictions placed on home mortgage lenders or additional bankruptcies of major credit providers;

e. The rate of housing foreclosures does not exceed 125% of the 2015-2020 average of Jackson Counties for any year in the forecasts;

f. All currently planned, platted, approved, and permitted housing developments are built out and completed by 2034. All housing units constructed are occupied by 2035;

g. The unemployment rates for Raytown C-2 School District and Kansas City Metropolitan Area will remain below 7.5% for the 10 years of the forecasts;

h. The intra district student transfer policy remains unchanged over the next 10 years;

i. The State of Missouri does not change any of its current laws or policies regarding Charter Schools, Vouchers or inter district transfers;

Assumptions

j. No Charter schools open in the district over the next 10 years;

k. The rate of students transferring into and out of the Raytown C-2 School District will remain at the 2019-20 to 2024-25 average;

l. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;

m. There will be no building moratorium within the district;

n. Businesses within the Raytown C-2 School District and the surrounding communities remain viable;

o. The number of existing home sales in the district that are a result of "distress sales" (homes worth less than the current mortgage value) will not exceed 20% of total homes sales in the district for any given year;

p. Housing turnover rates (sale of existing homes in the district) will remain at their current levels. The majority of existing home sales are made by homeowners over the age of 55;

q. Private school and home school attendance rates will remain constant;

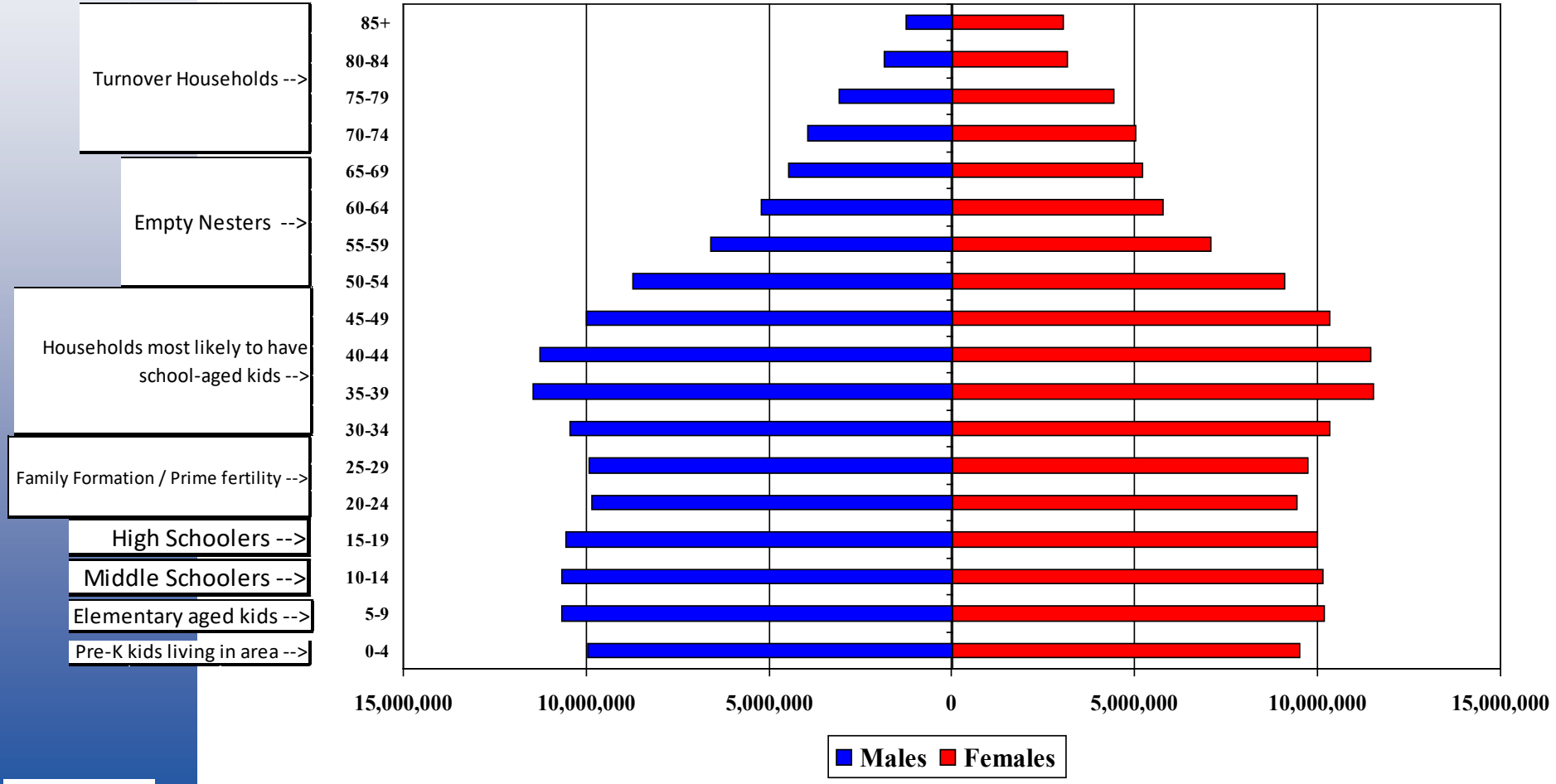
r. The rate of foreclosures for commercial property remains at the 2010-2025 average for Jackson County;

s. The district will have at least a yearly average of 850 units of single-family and multi-family unit sales.

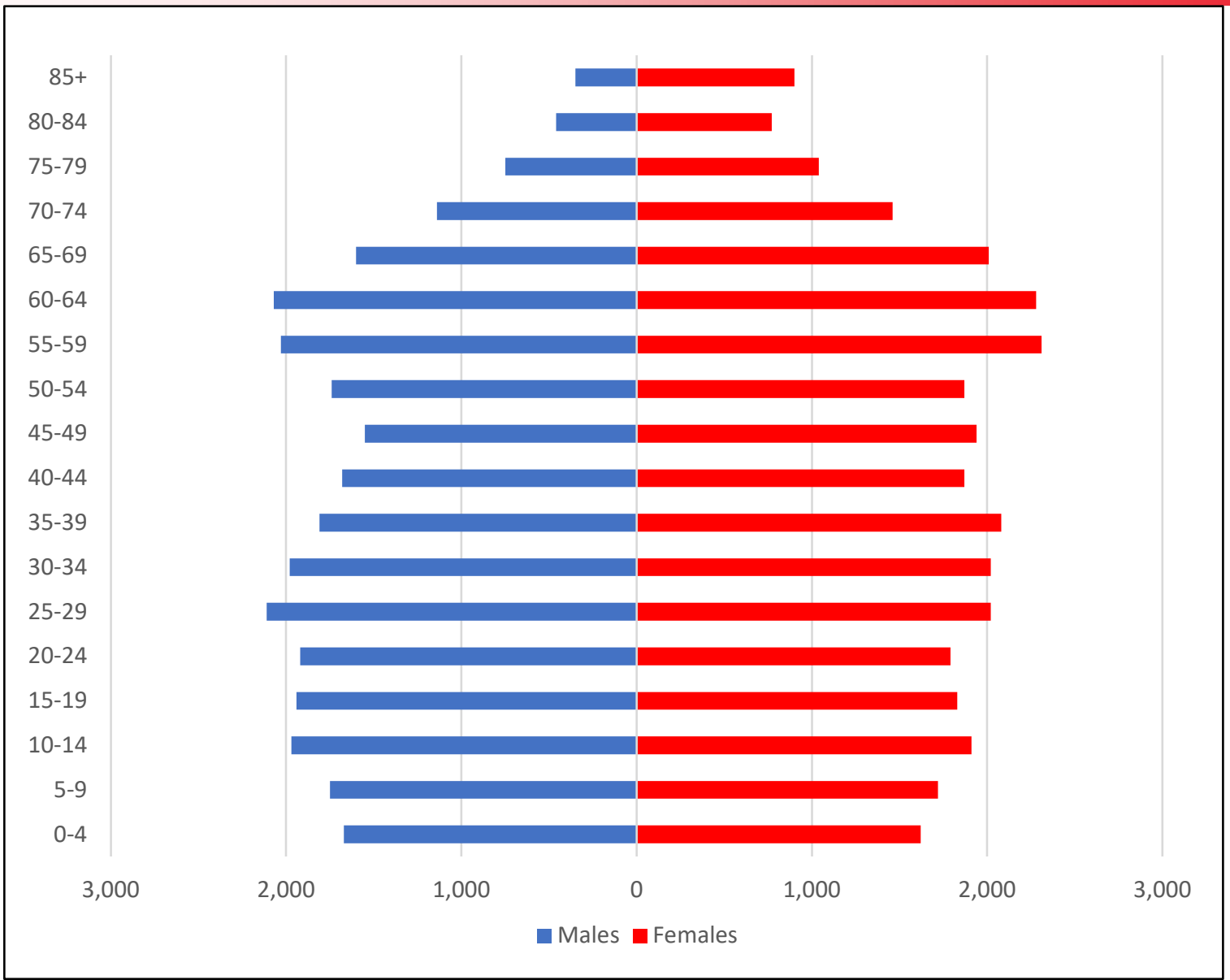
Population Pyramids

Proof is in the pyramid – Population Pyramids

- Pop pyramids are graphic representations showing age-sex distribution of a geographic
- Can be placed into broad typologies, but no 2 areas have the same exact characteristics.
- Demographic fingerprint.



Raytown C-2 School District Total Population – 2020 Census



Raytown C-2 School District Total Population – 2035 Forecast

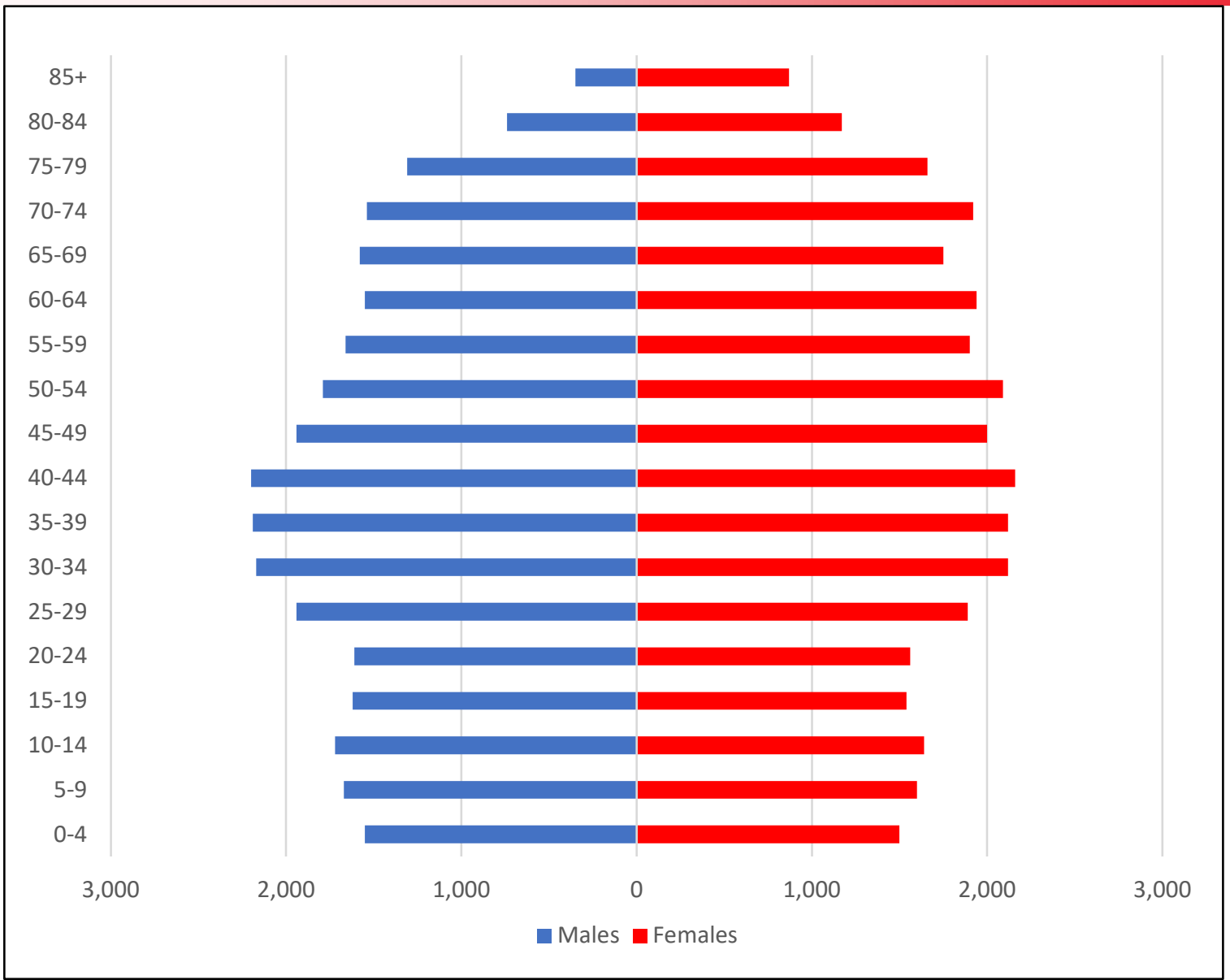


Table 6: Age Under One to Age Ten Population Counts, by Year of Age, by Elementary Area: 2020 Census

	Under 1 year	1 year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years
Blue Ridge	50	43	51	63	61	57	46	65	48	64	56	44	52	53
Eastwood Hills	46	80	69	76	60	72	77	63	56	56	98	76	80	77
Fleetridge	64	48	51	56	53	71	64	58	62	79	78	72	79	69
Laurel Hills	58	58	82	65	67	64	68	64	87	82	74	89	76	115
Little Blue	85	82	64	78	85	102	105	90	82	83	105	77	85	90
Norfleet	60	71	51	72	66	57	65	65	57	68	76	91	75	71
Robinson	57	63	48	76	60	57	70	61	56	78	74	94	72	68
Southwood	61	85	64	81	72	66	62	67	58	89	81	79	85	62
Spring Valley	49	62	66	71	66	72	65	76	74	69	61	79	71	90
Westridge	82	74	84	106	52	95	62	85	86	54	65	83	90	75
DISTRICT TOTAL	**611**	**666**	**630**	**744**	**642**	**713**	**684**	**694**	**666**	**723**	**769**	**785**	**765**	**770**

Population Forecast Results

Raytown C-2 School District – 2025 Population Forecasts

Total	2020	2025	2030	2035
0-4	3,290	3,290	3,230	3,050
5-9	3,470	3,330	3,290	3,270
10-14	3,880	3,460	3,400	3,360
15-19	3,770	3,460	3,200	3,160
20-24	3,710	3,710	3,460	3,170
25-29	4,130	4,120	4,090	3,830
30-34	4,000	4,340	4,330	4,290
35-39	3,890	4,020	4,290	4,310
40-44	3,550	3,900	4,050	4,360
45-49	3,490	3,500	3,760	3,940
50-54	3,610	3,630	3,590	3,880
55-59	4,340	3,620	3,600	3,560
60-64	4,350	4,210	3,530	3,490
65-69	3,610	4,080	3,970	3,330
70-74	2,600	3,120	3,520	3,460
75-79	1,790	2,210	2,660	2,970
80-84	1,230	1,290	1,590	1,910
85+	1,250	1,140	1,090	1,220
Total	59,960	60,430	60,650	60,560
Median Age	39.8	40.6	41.3	42.1

	2020 to 2025	2025 to 2030	2030 to 2035
Births	3,100	3,080	2,930
Deaths	3,210	3,360	3,620
Natural Increase	-110	-280	-690
Net Migration	540	570	580
Change	430	290	-110

Differences between period Totals may not equal Change due to rounding.

Enrollment Forecasts

Raytown C-2 School District: Total Enrollment

	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
PK	225	284	285	213	270	270	270	270	270	270	270	270	270	270	270
K	536	532	563	559	539	518	511	522	525	522	518	523	520	516	517
1	537	552	556	570	572	537	522	517	529	526	523	522	522	521	518
2	527	536	573	551	564	572	536	521	522	533	531	533	528	526	526
3	544	548	548	596	561	571	585	548	532	533	544	544	547	540	537
4	585	544	554	562	578	558	574	587	553	539	540	550	547	548	545
5	620	590	567	575	553	583	560	579	592	563	546	547	556	555	556
Total: K-5	**3,349**	**3,302**	**3,361**	**3,413**	**3,367**	**3,339**	**3,288**	**3,274**	**3,253**	**3,216**	**3,202**	**3,219**	**3,220**	**3,206**	**3,199**
6	605	623	584	573	522	537	562	539	552	571	530	523	524	540	536
7	619	613	625	602	549	518	532	554	530	542	556	515	510	513	531
8	623	624	615	633	598	547	513	526	545	522	531	543	504	499	504
Total: 6-8	**1,847**	**1,860**	**1,824**	**1,808**	**1,669**	**1,602**	**1,607**	**1,619**	**1,627**	**1,635**	**1,617**	**1,581**	**1,538**	**1,552**	**1,571**
9	791	814	805	728	680	713	654	619	635	662	638	647	660	626	608
10	654	665	647	637	628	565	598	553	525	541	569	548	555	567	541
11	590	588	573	603	545	558	504	539	502	479	496	524	504	509	525
12	598	528	543	568	533	509	524	476	514	480	461	477	505	486	492
Total: 9-12	**2,633**	**2,595**	**2,568**	**2,536**	**2,386**	**2,345**	**2,280**	**2,187**	**2,176**	**2,162**	**2,164**	**2,196**	**2,224**	**2,188**	**2,166**
Total: PK-12	**8,054**	**8,041**	**8,038**	**7,970**	**7,692**	**7,556**	**7,445**	**7,350**	**7,326**	**7,283**	**7,253**	**7,266**	**7,252**	**7,216**	**7,206**
Total: PK-12	**8,054**	**8,041**	**8,038**	**7,970**	**7,692**	**7,556**	**7,445**	**7,350**	**7,326**	**7,283**	**7,253**	**7,266**	**7,252**	**7,216**	**7,206**
Change		-13	-3	-68	-278	-136	-111	-95	-24	-43	-30	13	-14	-36	-10
% Change		-0.2%	0.0%	-0.8%	-3.5%	-1.8%	-1.5%	-1.3%	-0.3%	-0.6%	-0.4%	0.2%	-0.2%	-0.5%	-0.1%
Total: K-5	**3,349**	**3,302**	**3,361**	**3,413**	**3,367**	**3,339**	**3,288**	**3,274**	**3,253**	**3,216**	**3,202**	**3,219**	**3,220**	**3,206**	**3,199**
Change		-47	59	52	-46	-28	-51	-14	-21	-37	-14	17	1	-14	-7
% Change		-1.4%	1.8%	1.5%	-1.3%	-0.8%	-1.5%	-0.4%	-0.6%	-1.1%	-0.4%	0.5%	0.0%	-0.4%	-0.2%
Total: 6-8	**1,847**	**1,860**	**1,824**	**1,808**	**1,669**	**1,602**	**1,607**	**1,619**	**1,627**	**1,635**	**1,617**	**1,581**	**1,538**	**1,552**	**1,571**
Change		13	-36	-16	-139	-67	5	12	8	8	-18	-36	-43	14	19
% Change		0.7%	-1.9%	-0.9%	-7.7%	-4.0%	0.3%	0.7%	0.5%	0.5%	-1.1%	-2.2%	-2.7%	0.9%	1.2%
Total: 9-12	**2,633**	**2,595**	**2,568**	**2,536**	**2,386**	**2,345**	**2,280**	**2,187**	**2,176**	**2,162**	**2,164**	**2,196**	**2,224**	**2,188**	**2,166**
Change		-38	-27	-32	-150	-41	-65	-93	-11	-14	2	32	28	-36	-22
% Change		-1.4%	-1.0%	-1.2%	-5.9%	-1.7%	-2.8%	-4.1%	-0.5%	-0.6%	0.1%	1.5%	1.3%	-1.6%	-1.0%

Forecasts developed March 2025

Green cells (2024-2025 and earlier) are historical data

Blue cells (2025-2026 and later) are forecasted years

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Utilization Forecasts

Utilization Forecast

- Utilization forecasts use the historical and forecasted data from the Enrollment Forecasts in the 2025 Demographic Study.

- Depicts utilization as a percentage for each zoned school in the district. Utilization is calculated by dividing the actual or forecasted enrollment of each school by year by the calculated facility capacity.

Utilization Forecast

Raytown C-2 School District Utilization Forecast													
	School Name	Capacity		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Elementary Schools	Blue Ridge Elementary	441	Enrollment	297	284	265	249	242	247	251	258	261	261	267
			Utilization	67%	64%	60%	56%	55%	56%	57%	59%	59%	59%	61%
	Eastwood Hills Elementary	442	Enrollment	332	348	338	337	324	314	311	311	313	314	314
			Utilization	75%	79%	76%	76%	73%	71%	70%	70%	71%	71%	71%
	Fleetridge Elementary	399	Enrollment	353	359	358	374	383	383	383	387	388	383	378
			Utilization	88%	90%	90%	94%	96%	96%	96%	97%	97%	96%	95%
	Laurel Hills Elementary	465	Enrollment	346	335	337	328	318	319	315	313	314	312	312
			Utilization	74%	72%	72%	71%	68%	69%	68%	67%	68%	67%	67%
	Little Blue Elementary	538	Enrollment	377	379	372	361	361	356	358	362	364	367	375
			Utilization	70%	70%	69%	67%	67%	66%	67%	67%	68%	68%	70%
	Norfleet Elementary	422	Enrollment	329	329	337	349	363	355	342	337	330	324	319
			Utilization	78%	78%	80%	83%	86%	84%	81%	80%	78%	77%	76%
	Robinson Elementary	450	Enrollment	316	308	299	294	295	308	319	332	337	338	333
			Utilization	70%	68%	66%	65%	66%	68%	71%	74%	75%	75%	74%
	Southwood Elementary	365	Enrollment	346	355	344	344	345	337	344	352	359	363	365
			Utilization	95%	97%	94%	94%	95%	92%	94%	96%	98%	99%	100%
	Spring Valley Elementary	475	Enrollment	353	345	350	353	342	331	318	310	306	303	303
			Utilization	74%	73%	74%	74%	72%	70%	67%	65%	64%	64%	64%
	Westridge Elementary	477	Enrollment	318	297	288	285	280	266	261	257	248	241	233
			Utilization	67%	62%	60%	60%	59%	56%	55%	54%	52%	51%	49%
	Elementary Schools Totals:	**4,474**	**Enrollment**	**3,367**	**3,339**	**3,288**	**3,274**	**3,253**	**3,216**	**3,202**	**3,219**	**3,220**	**3,206**	**3,199**
			Utilization	**75%**	**75%**	**73%**	**73%**	**73%**	**72%**	**72%**	**72%**	**72%**	**72%**	**72%**

Utilization Color Key
Over 105%
96% to 105%
86% to 95%
76% to 85%
65% to 75%
Under 65%

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Utilization Forecast

Raytown C-2 School District Utilization Forecast

	School Name	Capacity		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Middle Schools	Raytown Central Middle School	639	Enrollment	488	466	477	495	483	472	471	478	481	479	472
			Utilization	76%	73%	75%	77%	76%	74%	74%	75%	75%	75%	74%
	Raytown Middle School	896	Enrollment	670	624	623	638	661	667	651	627	605	619	638
			Utilization	75%	70%	70%	71%	74%	74%	73%	70%	68%	69%	71%
	Raytown South Middle School	673	Enrollment	511	512	507	486	483	496	495	476	452	454	461
			Utilization	76%	76%	75%	72%	72%	74%	74%	71%	67%	67%	68%
	Middle School Totals:	**2,208**	**Enrollment**	**1,669**	**1,602**	**1,607**	**1,619**	**1,627**	**1,635**	**1,617**	**1,581**	**1,538**	**1,552**	**1,571**
			Utilization	**76%**	**73%**	**73%**	**73%**	**74%**	**74%**	**73%**	**72%**	**70%**	**70%**	**71%**

	School Name	Capacity		2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
High Schools	Raytown High School	1,704	Enrollment	1,287	1,240	1,212	1,163	1,168	1,164	1,178	1,213	1,238	1,215	1,206
			Utilization	76%	73%	71%	68%	69%	68%	69%	71%	73%	71%	71%
	Raytown South High School	1,243	Enrollment	1,099	1,105	1,068	1,024	1,008	998	986	983	986	973	960
			Utilization	88%	89%	86%	82%	81%	80%	79%	79%	79%	78%	77%
	High School Totals:	**2,947**	**Enrollment**	**2,386**	**2,345**	**2,280**	**2,187**	**2,176**	**2,162**	**2,164**	**2,196**	**2,224**	**2,188**	**2,166**
			Utilization	**81%**	**80%**	**77%**	**74%**	**74%**	**73%**	**73%**	**75%**	**75%**	**74%**	**73%**

	District Totals:	**9,629**	**Enrollment**	**7,422**	**7,286**	**7,175**	**7,080**	**7,056**	**7,013**	**6,983**	**6,996**	**6,982**	**6,946**	**6,936**
			Utilization	**77%**	**76%**	**75%**	**74%**	**73%**	**73%**	**73%**	**73%**	**73%**	**72%**	**72%**

Utilization Color Key
Over 105%
96% to 105%
86% to 95%
76% to 85%
65% to 75%
Under 65%

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Questions?

Utilization and Demographic Statistics

Utilization and Demographic Tables

The following tables provide statistics for current schools and boundaries under evaluation. This data is derived from the district's 2024-25 Student Database as of January 30, 2025, and will help inform stakeholders about potential impacts of redistricting adjustments.

Glossary of Terms

Capacity –the number of students that an individual school has the physical capacity to enroll and can be reasonably accommodated in a facility.

Utilization - Utilization is the total enrollment divided by the capacity, described as a percentage.

Live & Attend-In Students – Students residing inside of a school attendance boundary and attending that zoned school.

Live Out, Attend-In Students – Students residing inside of a school attendance boundary, but attending a school outside of the attendance zone they live in.

Out of District students – Students that live outside of the Raytown School District's boundary.

Unmatched students – Students whose address were unable to be located via Geographic Information Systems (GIS).

Utilization and Demographic Tables

School	Grades Served	2024-25 Capacity	KG	01	02	03	04	05	06	07	08	09	10	11	12	2024-25 Total Headcount K-12 Grade Enrollment	2024-25 Total K-12 Enrollment Utilization	
																	+/-	%
Blue Ridge ES	K-5	441	40	41	49	52	59	55								296	-145	67.1%
Eastwood Hills ES	K-5	442	45	53	60	53	61	41								313	-129	70.8%
Fleetridge ES	K-5	399	49	59	60	50	59	56								333	-66	83.5%
Laurel Hills ES	K-5	465	46	58	58	62	49	48								321	-144	69.0%
Little Blue ES	K-5	538	64	73	59	70	58	50								374	-164	69.5%
Norfleet ES	K-5	422	58	61	49	49	55	58								330	-92	78.2%
Robinson ES	K-5	450	47	47	59	55	57	54								319	-131	70.9%
Southwood ES	K-5	365	33	58	56	59	65	53								324	-41	88.8%
Spring Valley ES	K-5	475	58	58	55	50	53	50								324	-151	68.2%
Westridge ES	K-5	477	51	62	48	47	51	58								317	-160	66.5%
Total ES		**4,474**	**491**	**570**	**553**	**547**	**567**	**523**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3,251**	**-1,223**	**72.7%**
Raytown Central MS	6-8	639							141	160	187					488	-151	76.4%
Raytown MS	6-8	896							207	224	244					675	-221	75.3%
Raytown South MS	6-8	673							176	167	157					500	-173	74.3%
Total MS		**2,208**	**0**	**0**	**0**	**0**	**0**	**0**	**524**	**551**	**588**	**0**	**0**	**0**	**0**	**1,663**	**-545**	**75.3%**
Raytown HS	9-12	1704										328	313	296	327	1264	-440	74.2%
Raytown South HS	9-12	1243										313	298	233	216	1060	-183	85.3%
Total HS		**2,947**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**641**	**611**	**529**	**543**	**2,324**	**-623**	**78.9%**
Total		**9,629**	**491**	**570**	**553**	**547**	**567**	**523**	**524**	**551**	**588**	**641**	**611**	**529**	**543**	**7,238**	**-2,391**	**75.2%**

Utilization Color Key
Within +/-10% of Study Area Average
Between +/-10-15% from Study Area Average
Greater than +/-15% from Study Area Average

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Utilization and Demographic Tables

School	K-12 Live and Attend In	K-12 Live Out Attend In	K-12 Out of District	K-12 Unmatched
Blue Ridge ES	254	29	13	
Eastwood Hills ES	293	9	11	
Fleetridge ES	312	13	8	
Laurel Hills ES	297	16	8	
Little Blue ES	346	12	16	
Norfleet ES	293	35	2	
Robinson ES	296	21	2	
Southwood ES	303	19	2	
Spring Valley ES	294	18	11	1
Westridge ES	305	7	5	
Total ES	**2,993**	**179**	**78**	**1**
Raytown Central MS	462	18	7	1
Raytown MS	652	8	15	
Raytown South MS	490	2	6	2
Total MS	**1,604**	**28**	**28**	**3**
Raytown HS	1179	52	35	
Raytown South HS	1007	15	38	
Total HS	**2,186**	**67**	**73**	**0**
Total	**6,783**	**274**	**179**	**4**

Utilization and Demographic Tables

School	Black or African American	White	American Indian or Alaska Native	Asian	Multi Racial	Native Hawaiian or Other Pacific Islander	Other	Hispanic Yes	Hispanic No
Blue Ridge ES	42.2%	44.6%	0.0%	0.3%	12.8%	0.0%	0.0%	16.6%	83.4%
Eastwood Hills ES	48.6%	39.6%	0.0%	1.6%	10.2%	0.0%	0.0%	27.2%	72.8%
Fleetridge ES	37.2%	47.4%	0.3%	0.9%	13.2%	0.9%	0.0%	22.2%	77.8%
Laurel Hills ES	48.0%	38.3%	0.0%	0.0%	11.2%	2.5%	0.0%	20.9%	79.1%
Little Blue ES	32.4%	51.9%	0.3%	1.3%	12.6%	1.3%	0.3%	21.9%	78.1%
Norfleet ES	46.7%	39.4%	0.3%	0.6%	12.7%	0.3%	0.0%	17.6%	82.4%
Robinson ES	48.3%	38.9%	0.3%	0.3%	11.9%	0.3%	0.0%	15.0%	85.0%
Southwood ES	48.1%	34.0%	0.9%	1.9%	14.5%	0.6%	0.0%	16.4%	83.6%
Spring Valley ES	63.0%	27.8%	0.3%	0.0%	8.6%	0.3%	0.0%	15.4%	84.6%
Westridge ES	51.7%	32.2%	0.3%	1.3%	13.9%	0.6%	0.0%	15.5%	84.5%
Total ES	**46.4%**	**39.6%**	**0.3%**	**0.8%**	**12.2%**	**0.7%**	**0.0%**	**18.9%**	**81.1%**
Raytown Central MS	49.4%	38.1%	0.4%	0.0%	12.1%	0.0%	0.0%	16.4%	83.6%
Raytown MS	48.7%	37.6%	0.1%	1.2%	11.7%	0.6%	0.0%	20.0%	80.0%
Raytown South MS	54.8%	31.4%	0.4%	1.8%	10.8%	0.8%	0.0%	16.6%	83.4%
Total MS	**50.8%**	**35.9%**	**0.3%**	**1.0%**	**11.5%**	**0.5%**	**0.0%**	**17.9%**	**82.1%**
Raytown HS	52.8%	35.5%	0.2%	0.6%	10.7%	0.3%	0.0%	17.2%	82.9%
Raytown South HS	59.2%	32.1%	0.6%	0.5%	7.3%	0.5%	0.0%	15.7%	84.3%
Total HS	**55.7%**	**34.0%**	**0.3%**	**0.6%**	**9.1%**	**0.4%**	**0.0%**	**16.5%**	**83.6%**
Total	**50.4%**	**36.9%**	**0.3%**	**0.8%**	**11.1%**	**0.6%**	**0.0%**	**17.9%**	**82.1%**