

Planning for the Future: Status of Enrollment

March 2016 (Updated)

Discussion Points

Introductions

Enrollment and Demographics Discussion (Part 1)

- Key Things
- Maps: Planning Areas and Attendance Areas
- Sophisticated Forecast Model (SFM)
- Model Components
- Issues and Assumptions
- Past Enrollment
- Baseline Data

Development Discussion (Part 2)

• What is going on with development

Enrollment Projections Discussion (Part 3)

- Projection Accuracy
- District
- Elementary
- Secondary

Next Steps (Part 4)





VISUALIZING SUCCESS

- Founded in 2003
- Professional educational planning firm
- Expertise in multiple disciplines
- Over 20 years of planning experience
- Over 80 years of education experience
- Over 20 years of GIS experience
- Clients in Arkansas, Iowa, Illinois, Kansas, Minnesota, Missouri, Nebraska, and North Dakota
- Projection accuracy of 97% or greater

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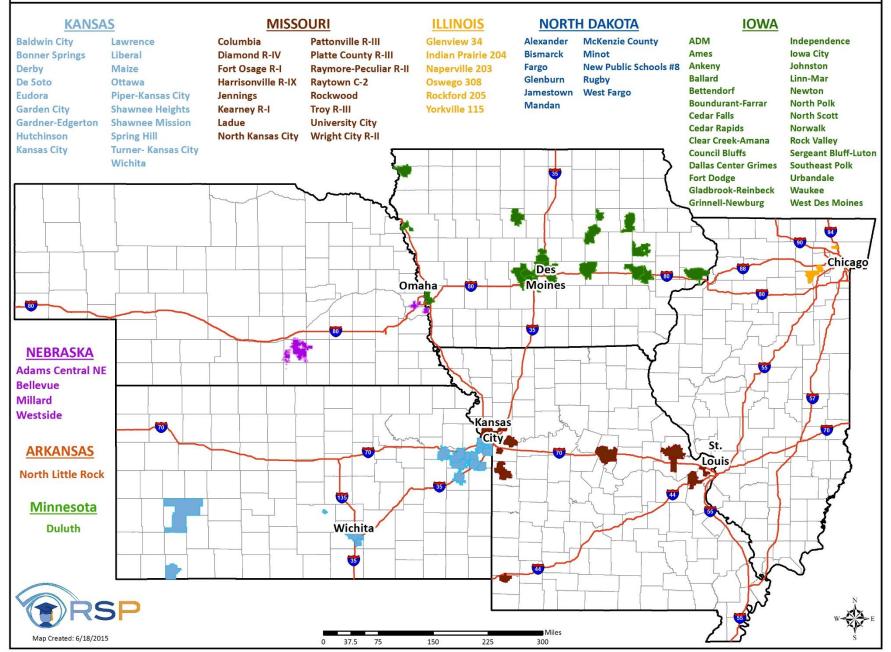
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RSP & Associates - Clients



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Part 1: **Enrollment** & Demographics Discussion

Making it Happen

Lawrence Public Schools

Administration

County, City & Others

- Douglas County
- City of Lawrence
- Census Bureau/ESRI

Development Community

- Builders
- Developers





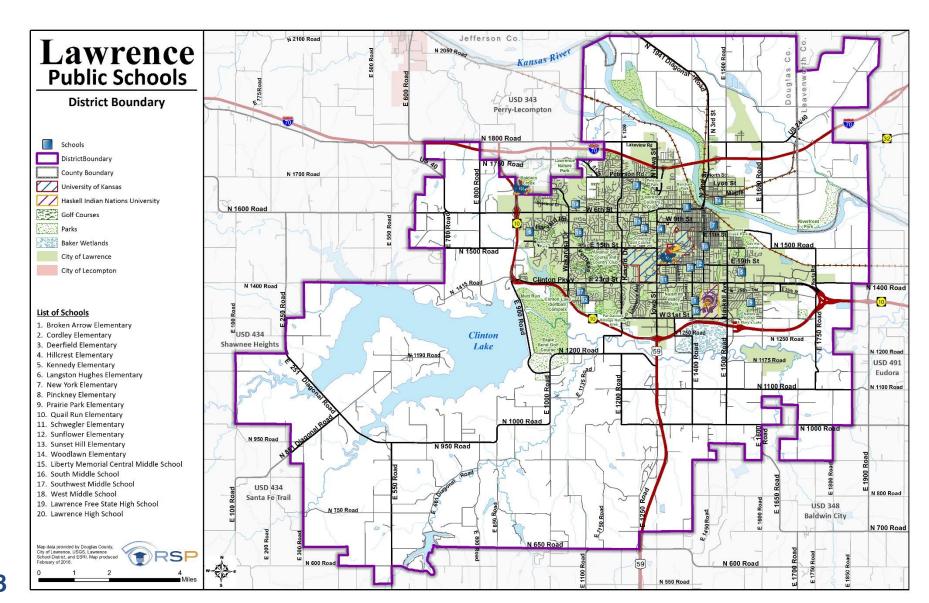
Three Key Things About the District

- Enrollment is projected to increase by approximately 240 students over the next 5 years with an annual change between
 -72 and +107 students (average of +48 students per year)
- New residential development will continue at or near the average rate experienced over the last several years. Closely monitor <u>future</u> platting activity west of K-10 and south of the Wakarusa River
- Capacity is adequate district-wide, but at Langston Hughes Elementary (2019/20) and Free State High School (2018/19) student enrollment exceeds capacity



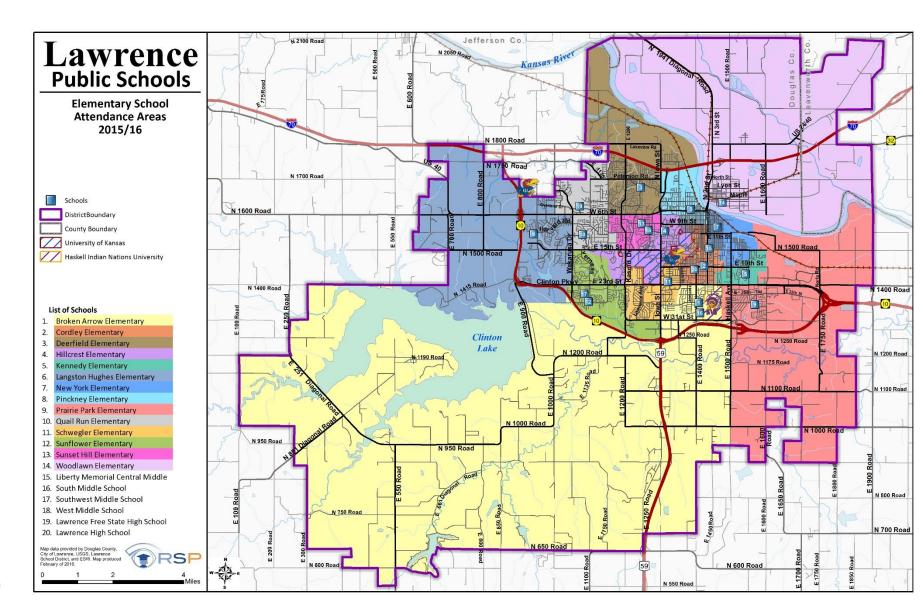
District Map

- District Boundary (purple line)
- City Limits (color shading)
- Major Streets
- Major water features & cultural features



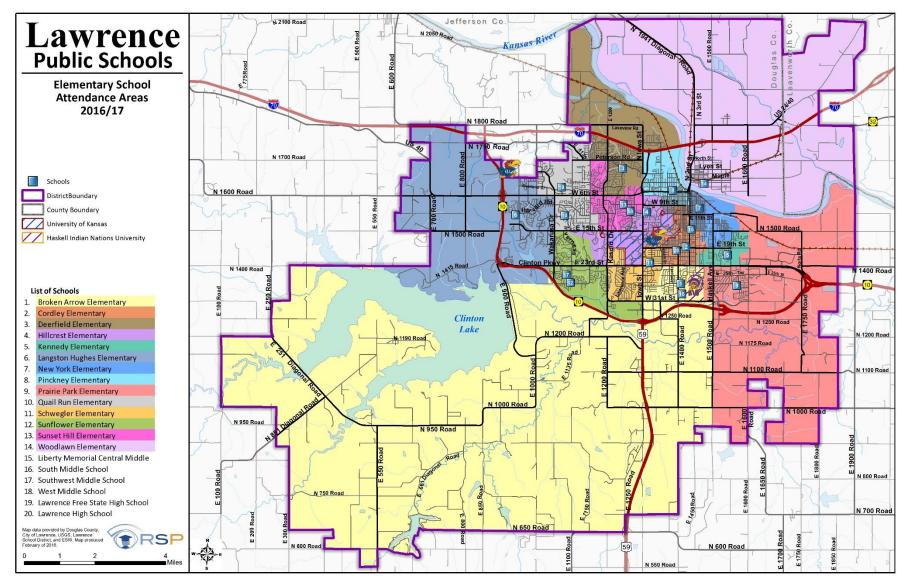
Elementary Attendance Areas 15/16

- District Boundary (purple line)
- Attendance Areas (solid colors)
- Major Streets
- Major water features & cultural features



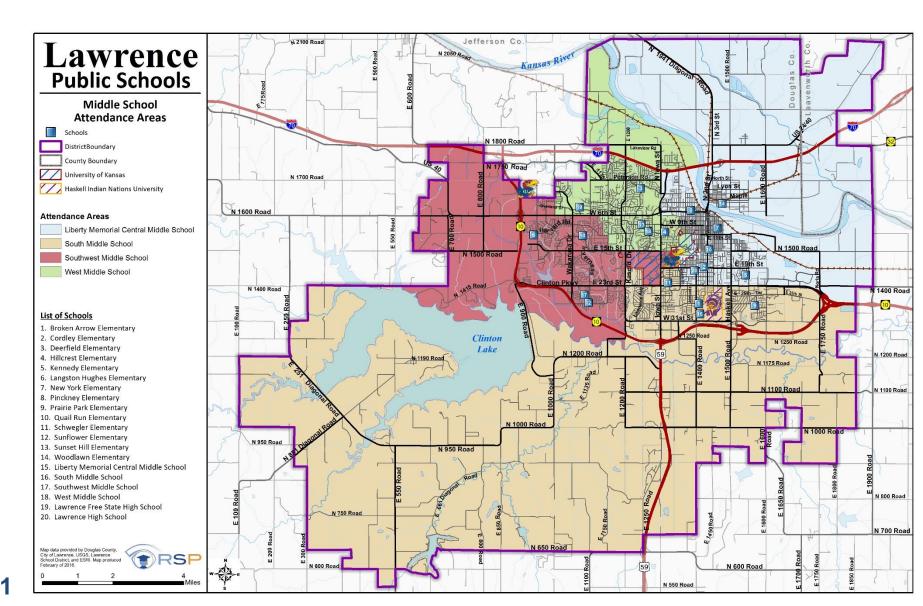
Elementary Attendance Areas 16/17

- District Boundary (purple line)
- Attendance Areas (solid colors)
- Major Streets
- Major water features & cultural features
- Small change with Deerfield ES and Sunset Hill ES



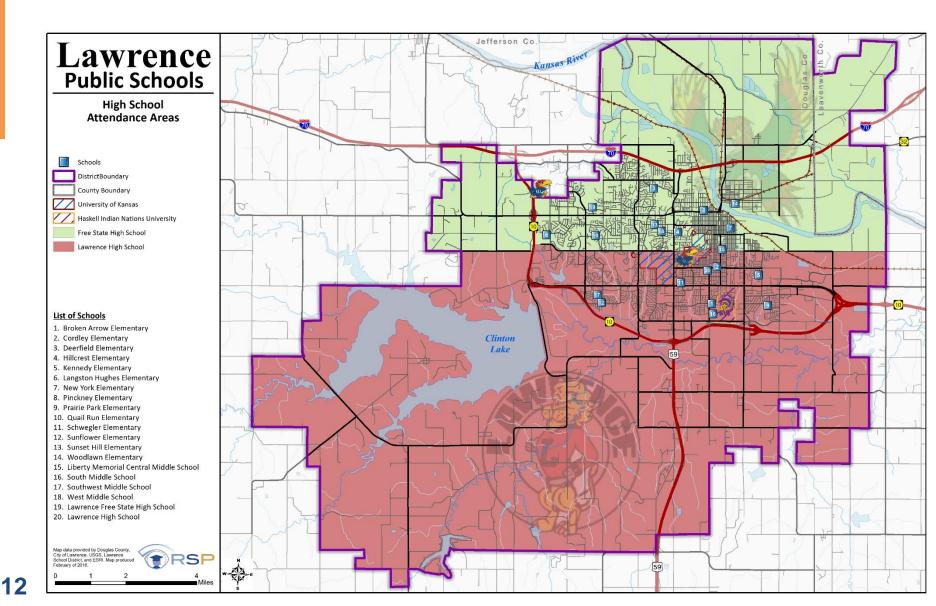
Middle School Attendance Areas

- District Boundary (purple line)
- Attendance Areas (solid colors)
- Major Streets
- Major water features & cultural features



High School Attendance Area Map

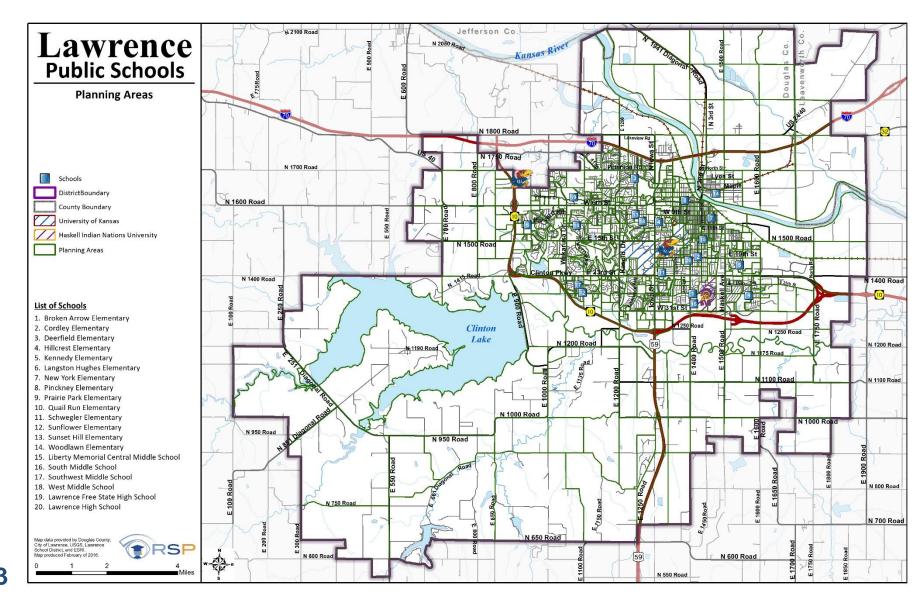
- District Boundary (purple line)
- Attendance Areas (solid colors)
- Major Streets
- Major water features & cultural features



Planning Areas

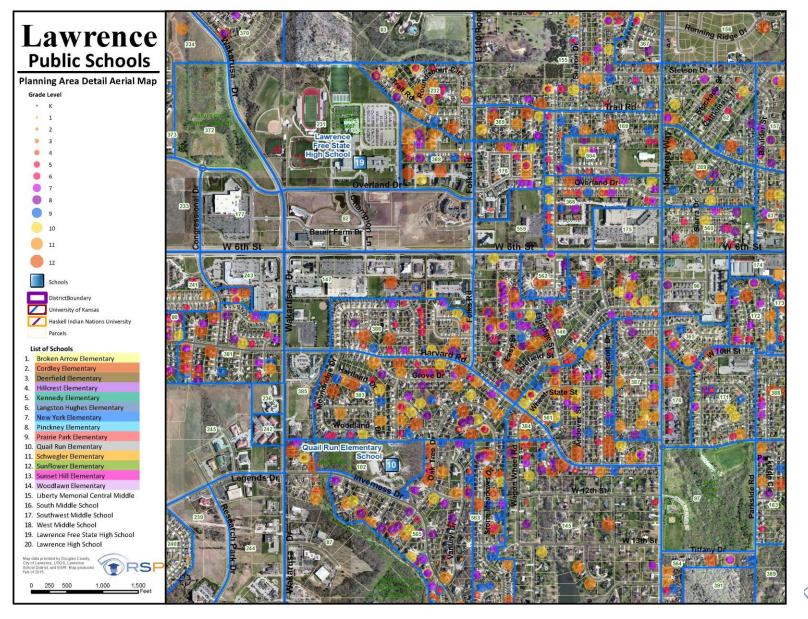
- By Land Use (Residential, Commercial, Industrial)
- By Residential Density (Single-Family, Mobile Home, Duplex, Apartment)
- By Natural Features (Rivers and Creeks)

- By Manmade Features (Railroad and Streets)
- By Attendance Area
- There are over <u>600</u> planning areas RSP monitors



Detailed Planning Areas Map

- Zoomed into Lawrence Free State High School
- Displays the power of GIS data & Information
- See where students are located in relation to streets, subdivisions, and parcels.
- Illustrates how the planning areas are tied to development types at the parcel level





Sophisticated Forecast Model

This is the central focus of everything RSP does. The model is based on what is happening in a school district. The best data is statistically analyzed to provide an accurate enrollment forecast. The District will be able to use RSP's reports and maps to better understand demographic trends, school utilization, and the timing of construction projects.

Built-Out

- $S_{c,t,x} = S_{c-1,t-1,x} * GC$
- Let:
- S = The number of students, either an actual count or a projected count
- x = A subscript denoting an attendance area in the School District
- c = Grade level
- = Time (Years)
- GC = Growth component either modeling enrollment increase or decrease based on historical information, expressed as a real number

Developing

$$S_{c, t, x} = S_{c-1, t-1, x} + (BP_{t, x} * R_{c, x})$$
Where: $BP_{t, x} = \left(\frac{(CP_{x}) (BT_{x}) (A_{x})}{\sum x (CP_{x}) (BT_{x}) (A_{x})} \right) * C^{2}$

Let:

S

- S = The number of students, either an actual count or a projected count
- x = A subscript denoting an attendance area in the School District
- c = Grade level
- Time (Years)
- BP = Building permit forecast as given by the Building Permit Allocation Model (BPAM) model
- Rc, x = Student enrollment ratio of cohort c in planning area x
- CP = Capacity of a planning area as expressed by available housing units
- BT = Building history trend of a planning area
- A = An index which models the likelihood of development
- CT = Building permit control total forecast



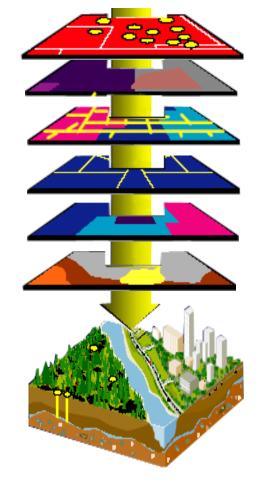
Model Components

Cohort Growth

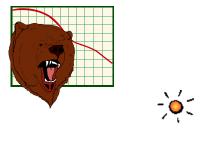
External Growth

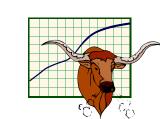
• Kindergarten Change

Economic Scenarios



Students & People Development Streets **Attendance** Areas City County







Assumptions For Future

- The economy will likely continue to show signs of recovery
- Mortgage interest rates have reached historic lows and likely will remain below 6%
- Subprime loans will have worked their way through the banking system
- The rate of foreclosures will continue to decline and stabilize
- Recirculation of existing homes will remain stable
- Final Platted developments will be nearly built-out
- Unemployment rates will remain below 6%
- Nonresidential developments continue to be built to meet employment demand and need
- Fuel prices will remain below \$4.00 for the foreseeable future
- Private and Parochial school enrollment remains stable

If more of these variables track toward being positive for the District – likely will exceed midpoint projections – the converse can also occur – midpoint projection is what the District should use for planning purposes.



Past School Enrollment

Enrollment By Grade

Year	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total
2000/01	660	755	766	777	819	786	835	809	822	833	857	819	746	10,284
2001/02	664	728	754	746	766	812	829	819	795	828	872	854	773	10,240
2002/03	615	718	700	729	749	766	822	829	797	814	846	845	794	10,024
2003/04	639	660	721	698	709	714	744	804	829	814	833	833	822	9,820
2004/05	700	663	649	729	695	722	717	781	804	837	849	836	875	9,857
2005/06	650	742	661	640	735	703	697	743	771	818	850	869	785	9,664
2006/07	750	690	745	669	624	747	707	738	749	808	848	880	878	9,833
2007/08	710	792	688	726	663	623	706	745	773	772	788	809	729	9,524
2008/09	729	747	794	690	749	671	641	742	746	812	761	768	727	9,577
2009/10	716	772	745	785	693	734	671	710	762	742	829	732	709	9,600
2010/11	693	776	772	744	782	695	731	727	692	750	771	811	665	9,609
2011/12	790	728	775	781	749	787	710	789	737	719	757	755	767	9,844
2012/13	808	849	747	787	787	751	818	738	789	764	712	759	729	10,038
2013/14	856	836	835	755	774	800	735	859	753	799	758	732	758	10,250
2014/15	781	862	816	822	742	773	807	760	852	768	810	757	667	10,217
2015/16	850	773	822	821	824	739	812	830	778	894	789	808	736	10,476

Source: KSDE 2000/01 to 2008/09, Virtual School not in Totals from 2004/05 to 2015/16

Pig in the Snake Effect

Largest class in 2015/16 – 9th grade (894) Smallest class in 2015/16 – 12th grade (736) Graduating senior class likely smaller to the next year incoming Kindergarten class

Enrollment provided by the district – student data is last school day count Does not include Early Childhood, Home School, Private School, or Parochial School



Past School Enrollment Change

Change By Grade from the Previous Year

			К	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	Annual
From	То	К	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Change
2000/01	2001/02	4	68	-1	-20	-11	-7	43	-16	-14	6	39	-3	-46	42
2001/02	2002/03	-49	54	-28	-25	3	0	10	0	-22	19	18	-27	-60	-107
2002/03	2003/04	24	45	3	-2	-20	-35	-22	-18	0	17	19	-13	-23	-25
2003/04	2004/05	61	24	-11	8	-3	13	3	37	0	8	35	3	42	220
2004/05	2005/06	-50	42	-2	-9	6	8	-25	26	-10	14	13	20	-51	-18
2005/06	2006/07	100	40	3	8	-16	12	4	41	6	37	30	30	9	304
2006/07	2007/08	-40	42	-2	-19	-6	-1	-41	38	35	23	-20	-39	-151	-181
2007/08	2008/09	19	37	2	2	23	8	18	36	1	39	-11	-20	-82	72
2008/09	2009/10	-13	43	-2	-9	3	-15	0	69	20	-4	17	-29	-59	21
2009/10	2010/11	-23	60	0	-1	-3	2	-3	56	-18	-12	29	-18	-67	2
2010/11	2011/12	97	35	-1	9	5	5	15	58	10	27	7	-16	-44	207
2011/12	2012/13	18	59	19	12	6	2	31	28	0	27	-7	2	-26	171
2012/13	2013/14	48	28	-14	8	-13	13	-16	41	15	10	-6	20	-1	133
2013/14	2014/15	-75	6	-20	-13	-13	-1	7	25	-7	15	11	-1	-65	-131
2014/15	2015/16	69	-8	-40	5	2	-3	39	23	18	42	21	-2	-21	145
3-Yr Avg		14.0	8.7	-24.7	0.0	-8.0	3.0	10.0	29.7	8.7	22.3	8.7	5.7	-29.0	49.0
3-Yr Wavg		17.5	2.7	-29.0	-0.5	-5.5	0.3	19.2	26.7	9.2	27.7	13.2	2.0	-32.3	51.0

Source: KSDE 2000/01 to 2008/09, Virtual School not in Totals from 2004/05 to 2015/16

Breaking the Table Down – Change varies by grade

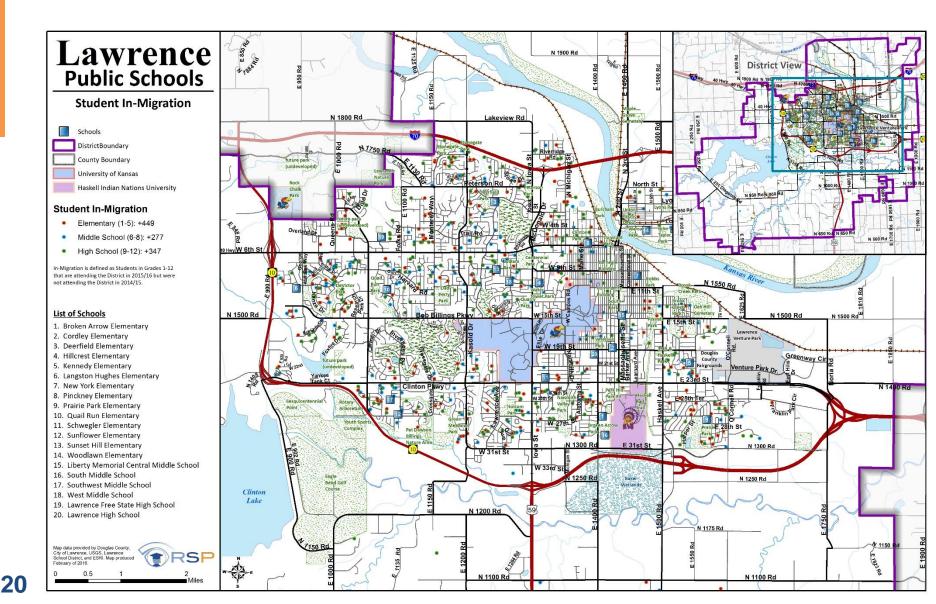
Largest average class increase – 6th to 7th grade (+29) Largest average class decrease – 11th to 12th grade (-29) Propensity to have varying cohort change in ES, MS, and HS levels

Enrollment provided by the district – student data is last school day count Does not include Early Childhood, Home School, Private School, or Parochial School



Student In-Migration

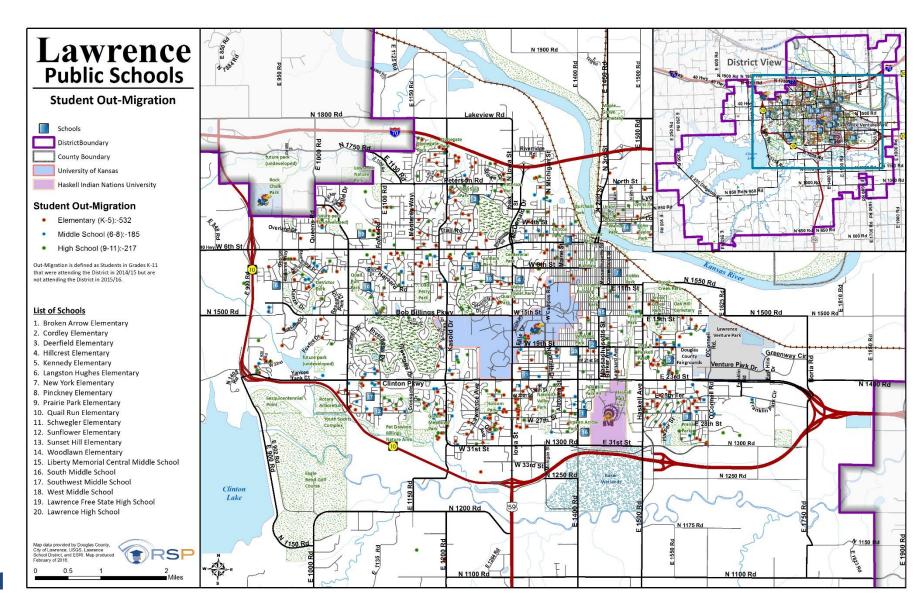
- 2015/16 students who are in 1st through 12th grade that were not attending the District in 2014/15 as Kindergarten through 11th grade
- Who is new to the District that was not attending in previous years?
- Is it related to changes in the community?
- 1,073 students were new in 2015/16



Student Out-Migration

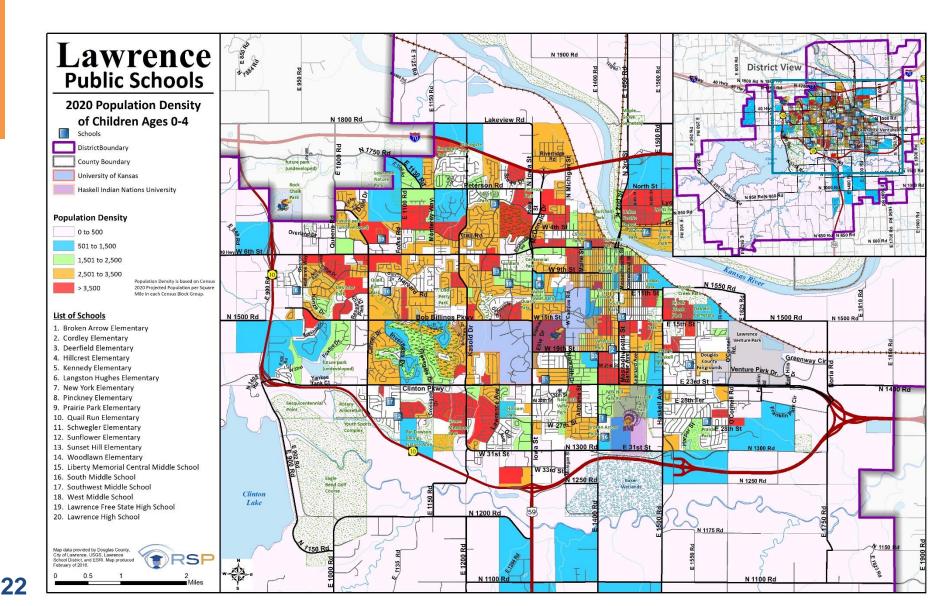
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- Students attending the District in 2014/15 who were in Kindergarten through 11th grade that did not attend in 2015/16 as 1st through 12th graders
- Who was in the District that is not attending now?
- Is it related to perceptions of a school building?
- Is it related to changes in the community?
- Past years saw triple digit migration increase
- 934 students left the district Total Migration = +139



Census Population Ages 0-4 in 2019

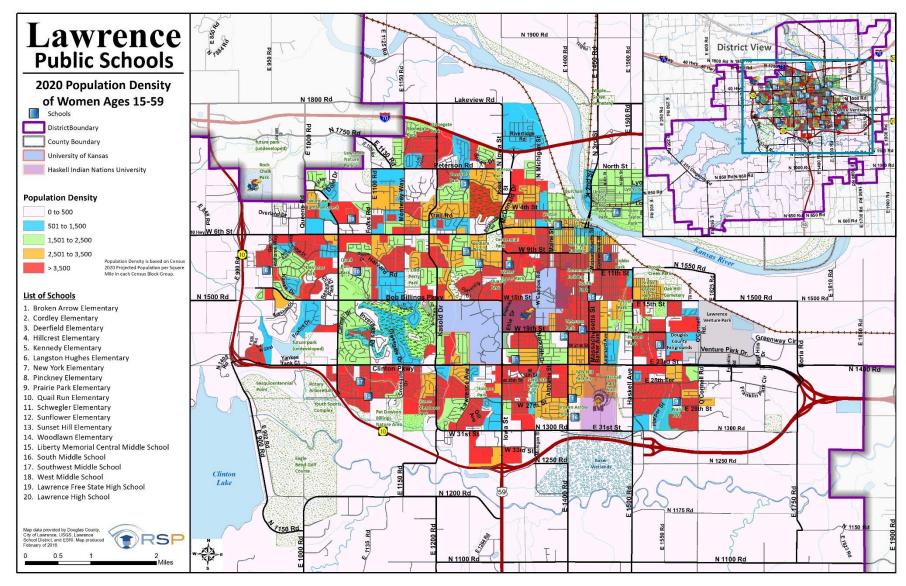
- Depicted by Census Block Group
- Density weighted by land area of each Block Group
- Red areas have greatest density, light pink have the least
- This data helps benchmark the projection model choices for future student enrollment



Census Population Women 15-59 in 2019

23

- Depicted by Census Block Group with 2019 estimates
- Density weighted by land area of each Census Block Group
- Red areas have greatest density, light pink have theleast
- This data helps benchmark the projection model choices for future student enrollment
- Highest female density likely influenced by where college females live

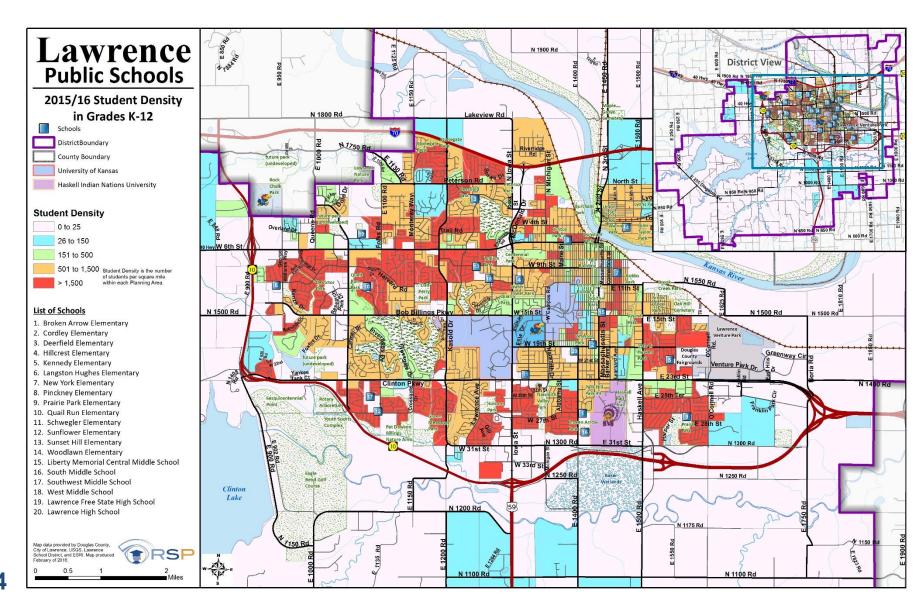


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Student Density

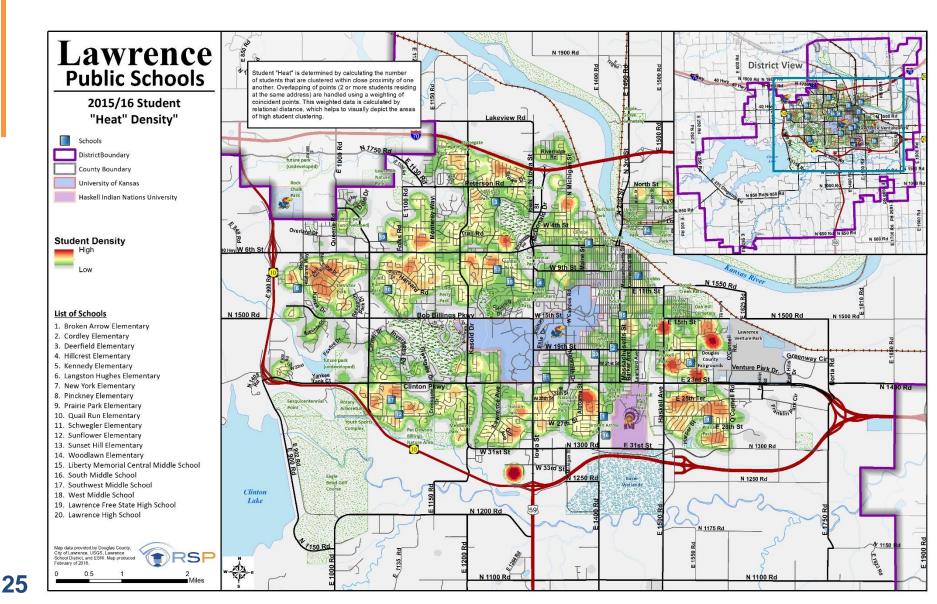
- The number of students residing in each Planning Area, represented per square mile
- Normalizes by the size of the planning area
- Pink is least dense, red is most dense

• Newer residential inventory likely to have the greatest student density



Student "Heat" Density

- Red areas depict highest, gray as lowest student density
- Overlapping points (2 or more students) are handled using a weighting of coincident points
- This type of analysis can help with understanding student population and geographic proximity to schools



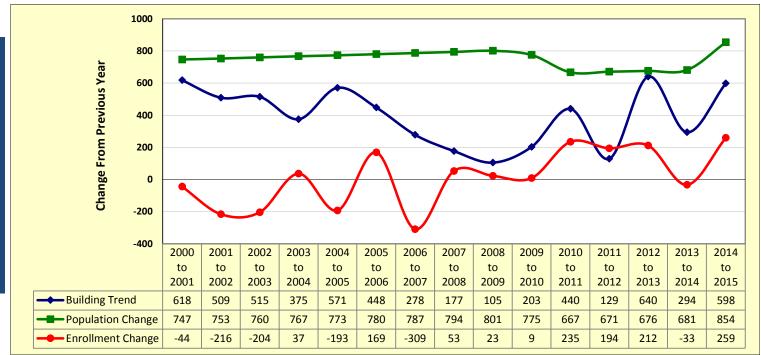
Part 2: Development Discussion

What has or is Changing

- Housing market changes (New plats millennials as first time buyers?)
- Economic conditions (Outlook optimistic development occurring)
- Infrastructure enhancements (Sewer, water, road infrastructure)
- Future residential growth patterns (FLU allows for additional growth)
- **Demographic trends** (Median age is 9.6 years younger than US Ave.)
- Enrollment trends (Generally, has increased since 2007/08)
- Capacity of facilities (Largely adequate but further study required)



Population, Development, and Enrollment



Source: Census Bureau, Douglas County, Lawrence Public School District and RSP SFM & Demographic Models

Graphic Explanation

Census data indicates the area has an increasing population

Student Enrollment growth varies each year not necessarily follow Census population estimate change – more likely to follow somewhat the building trends which have been between 290 and 650 units each of the last 3 years. Fluctuation dependent on apartment construction

What Does This Mean

The new households moving into the District similar to lower than past yield rates for children to attend school With development more likely to be SF projects over the next five years enrollment trends likely similar to current outcome Older areas of the community are in the subdivision life cycle to potentially have more children than in the past (housing impact)

RSF

Yield Rate of Students

Yield Rates

School		Grade Cor	figuration		Total		Yield	Rate	
Year	K-5	6-8	9-12	District	Units	K-5	6-8	9-12	District
2000/01	4,563	2,466	3,255	10,284	41,287	0.111	0.060	0.079	0.249
2001/02	4,470	2 <i>,</i> 443	3,327	10,240	41 <i>,</i> 905	0.107	0.058	0.079	0.244
2002/03	4,277	2,448	3,299	10,024	42,414	0.101	0.058	0.078	0.236
2003/04	4,141	2,377	3,302	9 <i>,</i> 820	42,929	0.096	0.055	0.077	0.229
2004/05	4,158	2,302	3,397	9 <i>,</i> 857	43,304	0.096	0.053	0.078	0.228
2005/06	4,131	2,211	3,322	9,664	43,875	0.094	0.050	0.076	0.220
2006/07	4,225	2,194	3,414	9,833	44,323	0.095	0.050	0.077	0.222
2007/08	4,202	2,224	3,098	9,524	44,601	0.094	0.050	0.069	0.214
2008/09	4,380	2,129	3,068	9 <i>,</i> 577	44,778	0.098	0.048	0.069	0.214
2009/10	4,445	2,143	3,012	9,600	44,883	0.099	0.048	0.067	0.214
2010/11	4,462	2,150	2,997	9,609	45,086	0.099	0.048	0.066	0.213
2011/12	4,610	2,236	2,998	9 <i>,</i> 844	45,526	0.101	0.049	0.066	0.216
2012/13	4,729	2,345	2,964	10,038	45 <i>,</i> 655	0.104	0.051	0.065	0.220
2013/14	4,856	2,347	3 <i>,</i> 047	10,250	46,295	0.105	0.051	0.066	0.221
2014/15	4,796	2,419	3,002	10,217	46,589	0.103	0.052	0.064	0.219
2015/16	4,829	2,420	3,227	10,476	47,187	0.102	0.051	0.068	0.222
Three Year	Average		0.103	0.051	0.066	0.221			
Three Year	Weighted A	Average	0.103	0.051	0.067	0.221			

Source: KSDE 2000/01 to 2008/09, Virtual School not in Totals from 2004/05 to 2015/16 and Douglas County

What this means:

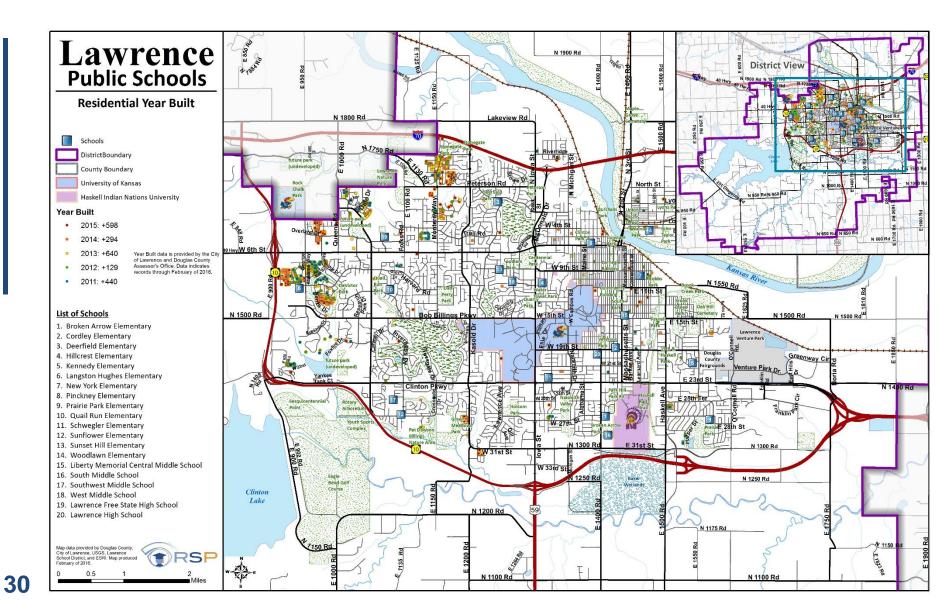
- Elementary, Middle School, and High School yield rates have decreased since 2000/01
- Overall the district yield rate is less than it was in 2000/01
- Adding newer housing inventory typically if the majority are multi-family will decrease the yield rate the type of housing and the demographic choosing this type of residence must continue to be monitored



Residential Year Built

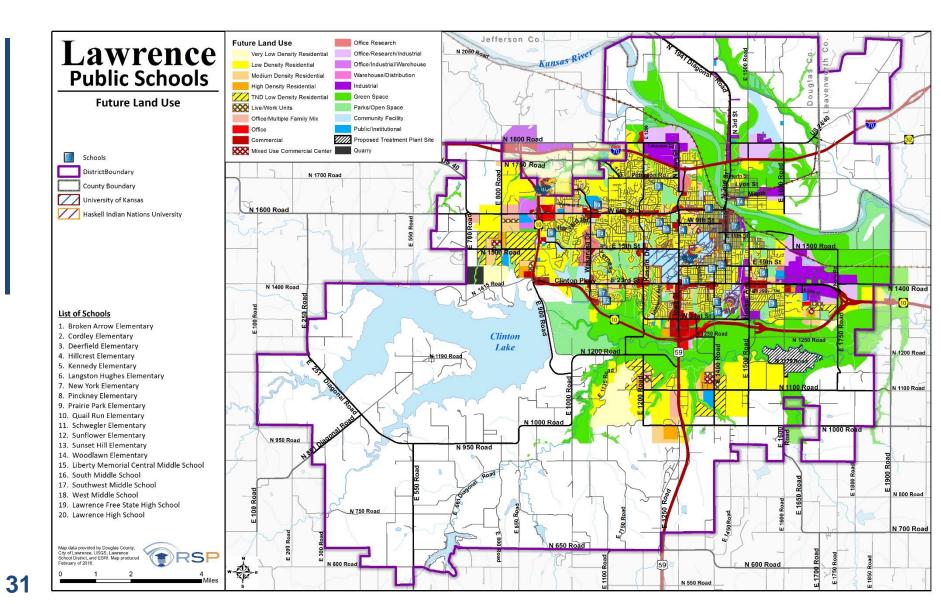
- Where has the growth been?
- Will this impact enrollment?

- Will the development continue as initially planned?
- Colors of dots represent a specific year according to Douglas County Assessor



Future Land Use Map

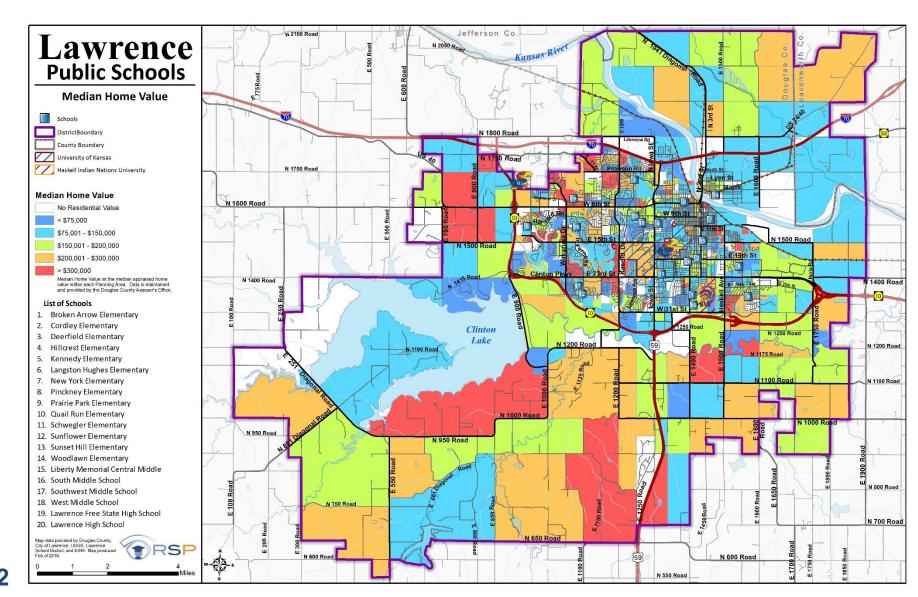
- Identifies possible areas that could develop
- Is development changing will it impact enrollment and use of facilities?
- Will residential development continue to build out into the rural/agricultural areas of the District?
- Yellow and Orange areas represent residential



Median Home Value

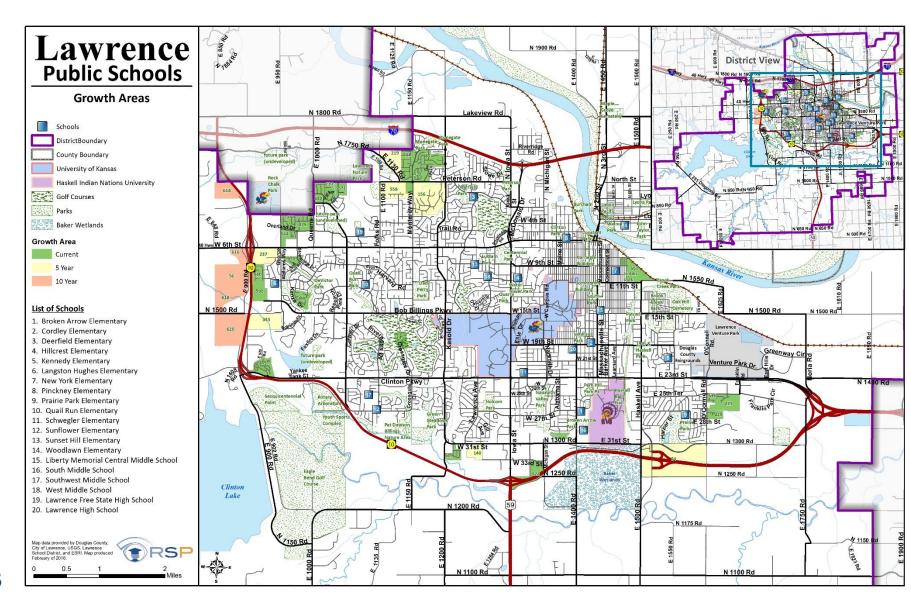
- Based on assessed Home Value as provided and maintained by the Douglas County Assessor's Office
- Depicted by Median Value in each Planning Area

- Home values likely correlated to socio-economic status
- Areas shaded in orange and red have the greatest Median Home Value
- Areas shaded in blue represent the greatest affordability



Current & Potential Growth Areas

- Where will the growth be?
- Identifies where development activity is happening (green)
- Identifies possible areas that could develop (yellow and orange)
- The market and property owner desire to build guides the timing of development
- Other properties not shown might develop while some shown might not develop



Development Conclusions

- Current residential development is concentrated largely in the northwest portion of the City of Lawrence, generally near W. 6th Street and west of Wakarusa Drive – as infrastructure progresses, opportunities west of the bypass will come into play
- Future residential development activity outlook is optimistic mostly concentrated in close proximity to K-10 on the west with future potential in the southeast near planned South Lawrence Traffic way as well as south of the Wakarusa River
- There are abundant residential development opportunities available within the District boundary as infrastructure improvements allow



Part 3: Enrollment Projections Discussion

Projection Accuracy

Elementary

• 99.0% Accuracy

Middle School

• 97.8% Accuracy



High School

• 97.5% Accuracy

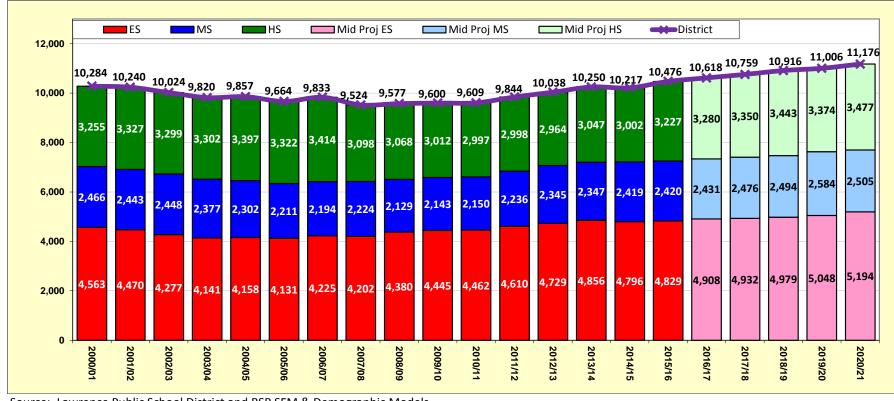
District

• 98.2% Accuracy

Notes:

- This accuracy is the 1st year of the 2015/16 RSP projections
- Potential future District boundary changes could result in more students than projected
- Demographic shifts with millennials impacting future enrollment
- Lower Kdg enrollment and unique double digit decreases from 6th through 10th grade impacted the secondary projections
- Many areas of the community having significant demographic shifts influencing changes in enrollment

Past, Current, & Future Enrollment



Source: Lawrence Public School District and RSP SFM & Demographic Models

The above numbers are not the Certified Enrollment Count Does not include Home School, Private School, or Parochial School

Elementary Enrollment Projections

School	Capacity	Student	Past S	chool Enro	llment	Futu	ure Enrollm	ent By Stu	dent Reside	ence	Future Enrollment By Student Attendance						
	Post Bond	Location	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2016/17	2017/18	2018/19	2019/20	2020/21		
Broken Arrow		Res/Att	223	239	285												
Construction Done 16/17	350	Reside	291	302	338	338	314	322	326	319	304	280	289	293	286		
Grades K-5		Attend	258	262	308												
Cordley		Res/Att	207	197	185												
	400	Reside	221	206	199	202	197	188	189	203	279	272	262	263	277		
Grades K-5		Attend	295	271	278												
Deerfield		Res/Att	495	496	493												
	600	Reside	567	568	570	497	504	508	501	515	440	459	463	456	470		
Grades K-5		Attend	514	530	522												
Hillcrest		Res/Att	177	185	169												
	450	Reside	191	205	183	188	192	187	199	202	351	354	350	361	364		
Grades K-5		Attend	349	359	350												
Kennedy		Res/Att	213	213	225												
	400	Reside	273	279	274	277	283	290	281	280	257	256	263	255	253		
Grades K-5		Attend	252	247	250												
Langston Hughes		Res/Att	484	511	447												
	600	Reside	521	538	475	496	515	559	592	621	531	543	587	620	650		
Grades K-5		Attend	519	550	512												
New York		Res/Att	169	162	196												
	300	Reside	230	204	247	254	247	252	259	266	218	220	225	231	238		
Grades K-5		Attend	185	192	212												
ELEMENTARY TOTAL																	
	6,350	Reside	4,856	4,796	4,829	4,908	4,932	4,979	5,048	5,194	4,908	4,932	4,979	5,048	5,194		
Grades K-5		Attend	4,856	4,796	4,829												

Source: RSP & Associates, LLC - February 2016

Note 1: Student Projections are based on the residence of the student

Note 2: School Choice Options between Facilities are depicted in the Projections (ESL, SPED, Other)

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Exceed District Post-Bond Building Capacity

Elementary Enrollment Projections

School	Capacity	Student	Past S	chool Enro	llment	Futu	ure Enrollm	ent By Stu	dent Reside	ence	Future Enrollment By Student Attendance						
	Post Bond	Location	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2016/17	2017/18	2018/19	2019/20	2020/21		
Pinckney		Res/Att	214	205	208												
Construction Done 17/18	350	Reside	244	239	249	258	263	261	259	258	230	246	244	241	240		
Grades K-5		Attend	245	232	226												
Prairie Park		Res/Att	336	346	330												
	475	Reside	395	404	369	370	371	373	380	396	355	350	352	359	374		
Grades K-5		Attend	376	374	352												
Quail Run		Res/Att	364	331	396												
	525	Reside	419	372	477	475	473	478	479	504	438	446	451	452	477		
Grades K-5		Attend	412	376	434												
Schwegler		Res/Att	408	398	369												
	500	Reside	470	449	420	427	421	429	440	444	398	386	394	405	409		
Grades K-5		Attend	433	418	383												
Sunflower		Res/Att	466	470	464												
	575	Reside	518	534	517	508	513	503	511	532	482	482	472	479	500		
Grades K-5		Attend	482	493	490												
Sunset Hill		Res/Att	240	231	244												
	525	Reside	277	271	293	398	411	406	413	427	393	406	401	407	422		
Grades K-5		Attend	290	275	283												
Woodlawn		Res/Att	223	197	205												
	300	Reside	239	225	218	221	229	223	221	229	233	234	228	226	234		
Grades K-5		Attend	246	217	229												
ELEMENTARY TOTAL																	
	6,350	Reside	4,856	4,796	4,829	4,908	4,932	4,979	5,048	5,194	4,908	4,932	4,979	5,048	5,194		
Grades K-5		Attend	4,856	4,796	4,829												

Source: RSP & Associates, LLC - February 2016

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Exceed District Post-Bond Building Capacity

Secondary Enrollment Projections

School	Capacity	Student	Past S	chool Enro	llment	Futu	ire Enrollm	ent By Stu	dent Reside	ence	Future Enrollment By Student Attendance						
	Post Bond	Location	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2016/17	2017/18	2018/19	2019/20	2020/21		
Liberty Memorial Central		Res/Att	357	399	469												
	625	Reside	407	440	529	548	571	590	620	606	514	546	566	596	582		
Grades 6-8		Attend	416	447	489												
South Middle		Res/Att	552	525	530												
	800	Reside	597	569	584	575	595	590	600	583	577	592	587	597	580		
Grades 6-8		Attend	615	576	576												
Southwest Middle		Res/Att	627	675	616												
	800	Reside	671	720	648	670	669	673	674	641	696	693	697	698	665		
Grades 6-8		Attend	669	712	688												
West Middle		Res/Att	614	636	620												
	800	Reside	672	690	659	638	642	641	691	675	644	645	644	694	679		
Grades 6-8		Attend	647	684	667												
Free State High		Res/Att	1,499	1,482	1,605												
	1,800	Reside	1,569	1,559	1,695	1,734	1,728	1,807	1,766	1,807	1,719	1,709	1,788	1,746	1,788		
Grades 9-12		Attend	1,571	1,559	1,666												
La wrence High		Res/Att	1,406	1,380	1,471												
	1,800	Reside	1,478	1,465	1,532	1,546	1,622	1,636	1,608	1,669	1,561	1,642	1,655	1,628	1,689		
Grades 9-12		Attend	1,476	1,465	1,561												
MIDDLE TOTAL																	
	3,025	Reside	2,347	2,419	2,420	2,431	2,476	2,494	2,584	2,505	2,431	2,476	2,494	2,584	2,505		
Grades 6-8		Attend	2,347	2,419	2,420												
HIGH TOTAL																	
	3,600	Reside	3,047	3,024	3,227	3,280	3,350	3,443	3,374	3,477	3,280	3,350	3,443	3,374	3,477		
Grades 9-12		Attend	3,047	3,024	3,227												

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Exceed District Post-Bond Building Capacity

Part 4: Next Steps

Key Considerations

The following items will assist in ensuring the district is able to advance its educational goals:

- Analyze the retention of students at each grade and continue to monitor enrollment annually
- Study the impact of future educational programming that will be integrated into the schools and its relation to capacity
- Conduct a comprehensive housing study to better understand the regional and local housing market and conditions and potential yield rates
- Annually review enrollment projections
- Lawrence College and Career Center opens in Fall 2015
- <u>2015 Construction Projects</u> at Cordley, Langston Hughes, New York, Quail Run, Woodlawn, Liberty Memorial Central, South MS, Southwest MS, West MS, and Free State in Fall 2015
- <u>2016 Construction Projects</u> at Broken Arrow, Deerfield, Kennedy, Prairie Park, Schwegler, Sunflower, Sunset Hill, and Lawrence HS in Fall 2016,
- Make decisions and communicate that information to the community so they can understand how USD 497 is a learning community committed to ensuring educational equity and excellence so the students of all races and backgrounds achieve high levels and graduate prepared for success in college, careers and life in a divers and rapidly changing world.





