

Planning for the Future

18/19 Enrollment Analysis

Presented **October** 2018



Discussion Points

☐ Introduction

☐ Enrollment and Demographics (Part One)

- ☐ Key Considerations
- ☐ Maps: Planning Areas and Attendance Areas
- ☐ Sophisticated Forecast Model (SFM)
- ☐ Demographics
- ☐ Past Enrollment and Change
- ☐ Baseline Maps and Data

☐ Development (Part Two)

- ☐ Population, Development, and Enrollment Trends
- ☐ Yield Rate of Students
- ☐ Maps and Data

☐ Enrollment Projections (Part Three)

- ☐ Projection Accuracy
- ☐ Past, Current, Future Enrollment
- ☐ Accuracy Trends
- ☐ Building Projections

☐ Moving Forward (Part Four)

- ☐ Next Steps

About RSP

- ❑ 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, North Dakota, Oklahoma, and Wisconsin
- ❑ Projection accuracy of 97% or greater

Planning

Robert Schwarz
CEO, AICP, REFP, ALEP, CEFP

Grant Lang
Planning Coordinator

Educators

Clay Guthmiller
Education Planner

Craig Menozzi
Education Planner

David Stoakes
Education Planner, EdD

Dave Wilkerson
Education Planner, PhD

GIS Analyst

Tyler Link
GIS Analyst, GISP Candidate

Brandon Sylvester
GIS Analyst, GISP Candidate



Our Clients

NORTH DAKOTA

Alexander
Bismarck
Bottineau
Central Cass
Dickinson
Fargo
Garrison
Glenburn
Grand Forks
Jamestown
Killdeer
Mandan
McKenzie County
Minot
Williams County 8
Northern Cass
Richardson Taylor
Rugby
West Fargo
Wilton
Williston #1

ILLINOIS

Glenview 34
Indian Prairie 204
Keeneyville 20
Naperville 203
Norridge 80
Oswego 308
Rockford 205
Yorkville 115

MISSOURI

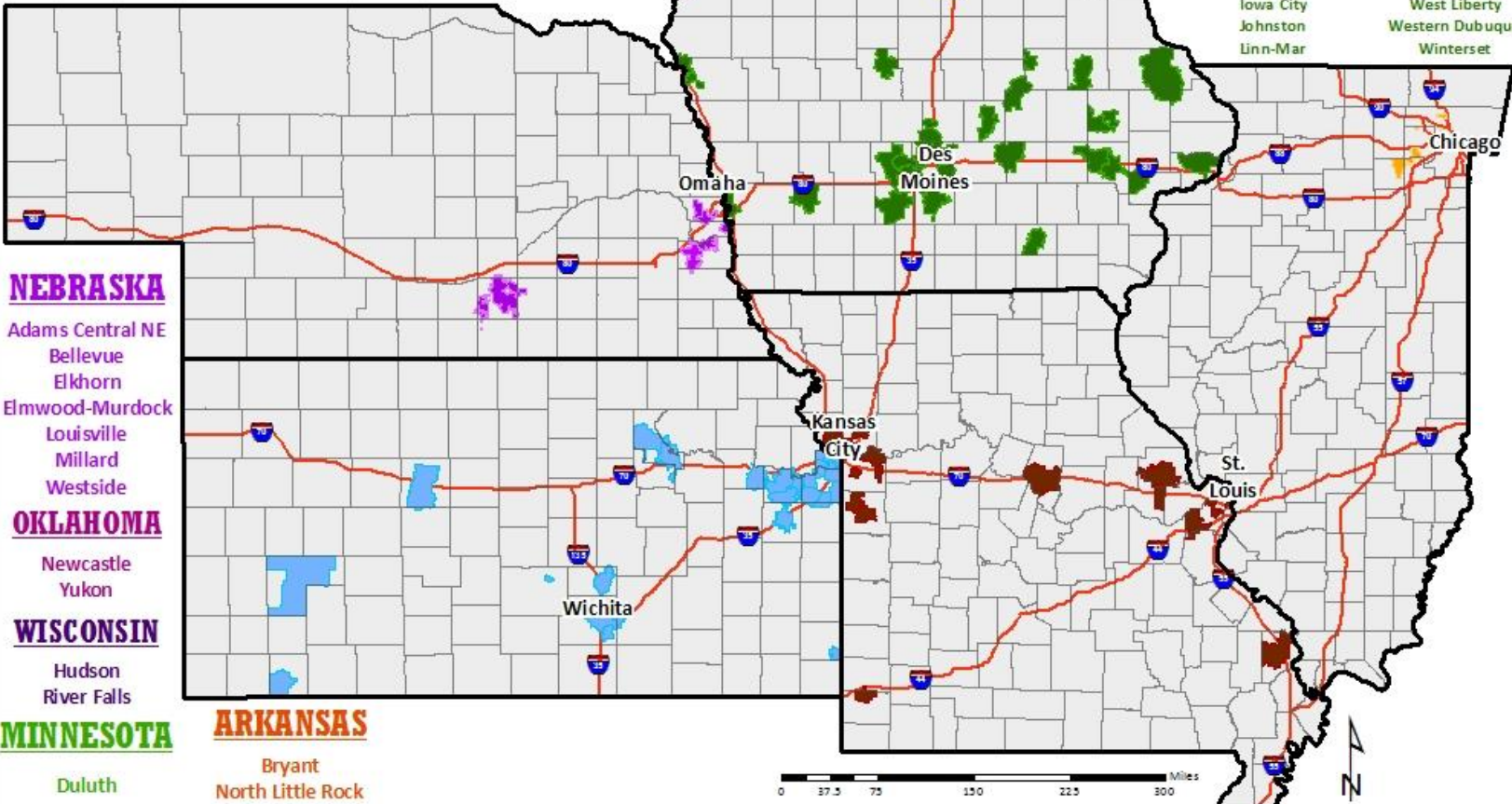
Columbia
Diamond R-IV
Fort Osage R-I
Grain Valley
Harrisonville R-IX
Jackson
Jennings
Kearney R-I
Ladue
North Kansas City
Pattonville R-III
Platte County R-III
Raymore-Peculiar R-II
Raytown C-2
Rockwood
Troy R-III
University City
Wright City R-II

KANSAS

Andover
Baldwin City
Bonner Springs
Derby
De Soto
Eudora
Garden City
Gardner-Edgerton
Hays
Hutchinson
Kansas City
Lawrence
Liberal
Maize
Manhattan-Ogden
Newton
Ottawa
Pittsburg
Piper-Kansas City
Riley County
Shawnee Heights
Spring Hill
Turner- Kansas City
Wichita

IOWA

Adel DeSoto Minburn
Ames
Ankeny
Atlantic
Ballard
Bettendorf
Boundurant-Farrar
Cedar Falls
Cedar Rapids
Clear Creek-Amana
Council Bluffs
Dallas Center Grimes
Fort Dodge
Gladbrook-Reinbeck
Grinnell-Newburg
Independence
Indianola
Iowa City
Johnston
Linn-Mar
Marshalltown
Newton
North Polk
North Scott
Norwalk
Okoboji
Ottumwa
Rock Valley
Saydel
Sergeant Bluff-Luton
Sioux City
Southeast Polk
Spencer
Urbandale
VanMeter
Waukee
West Des Moines
West Liberty
Western Dubuque
Winterset



NEBRASKA

Adams Central NE
Bellevue
Elkhorn
Elmwood-Murdock
Louisville
Millard
Westside

OKLAHOMA

Newcastle
Yukon

WISCONSIN

Hudson
River Falls

MINNESOTA

Duluth

ARKANSAS

Bryant
North Little Rock

Making it Happen

Platte County R-3 School District

- ☐ Administration

County, City, and Others

- ☐ Platte County
- ☐ Clay County
- ☐ Platte City
- ☐ MODOT
- ☐ KCMO GIS
- ☐ United States Geological Survey
- ☐ Census Bureau/ Esri

Thank you!

Visualizing Success

Part One: Enrollment & Demographics

Visualizing Success

Key Considerations

Enrollment Projections – Five Year Outlook:

- ☐ Elementary (PK-5): +189 students (+9.3%) (Annual range +5 to +75)
- ☐ Middle School (6-8): +42 students (+4.2%) (Annual range -21 to +35)
- ☐ High School (9-12): +111 students (+9.1%) (Annual range -39 to +62)
- ☐ District (PK-12): +342 students (+8.1%) (Annual range +43 to +98)

Functional Capacity Need:

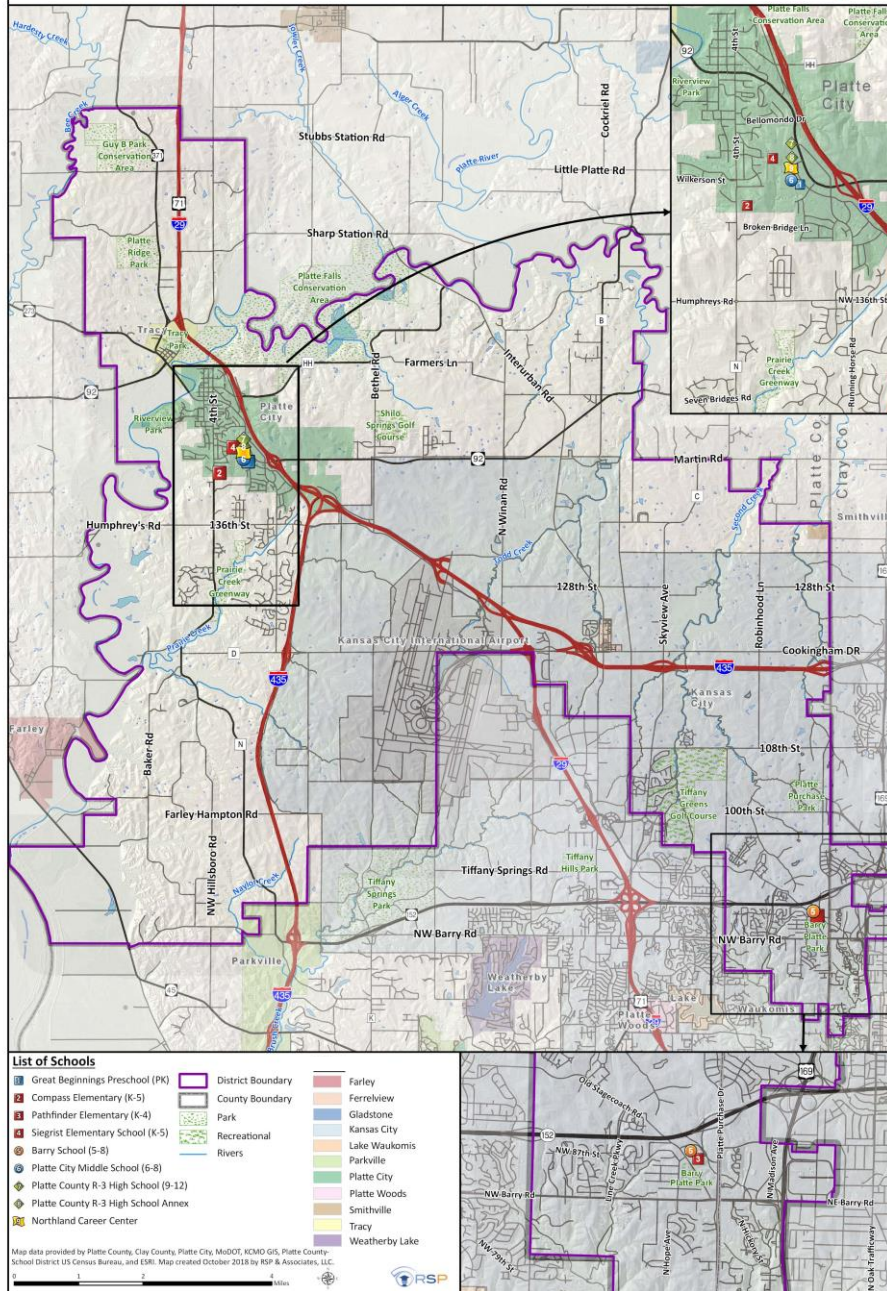
- ☐ Elementary School Capacity Challenges
 - Compass Elementary 2018/19 forward
 - Pathfinder Elementary 2019/20 forward
- ☐ Middle School Capacity Planning
 - Need additional capacity by 2024/25
- ☐ High School Capacity
 - Need additional capacity past 2028/29

Development Opportunity:

- ☐ There is considerable opportunity for future growth in the District area. The development of this vacant land will have a significant effect on future enrollment

Platte County School District:

District Boundary



District Boundary

- ☐ District Boundary (Purple Line)
- ☐ Major Streets
- ☐ Major water features & cultural features
- ☐ Municipality Limits
 - ☐ Platte City (Green)
 - ☐ Kansas City (Light Blue)

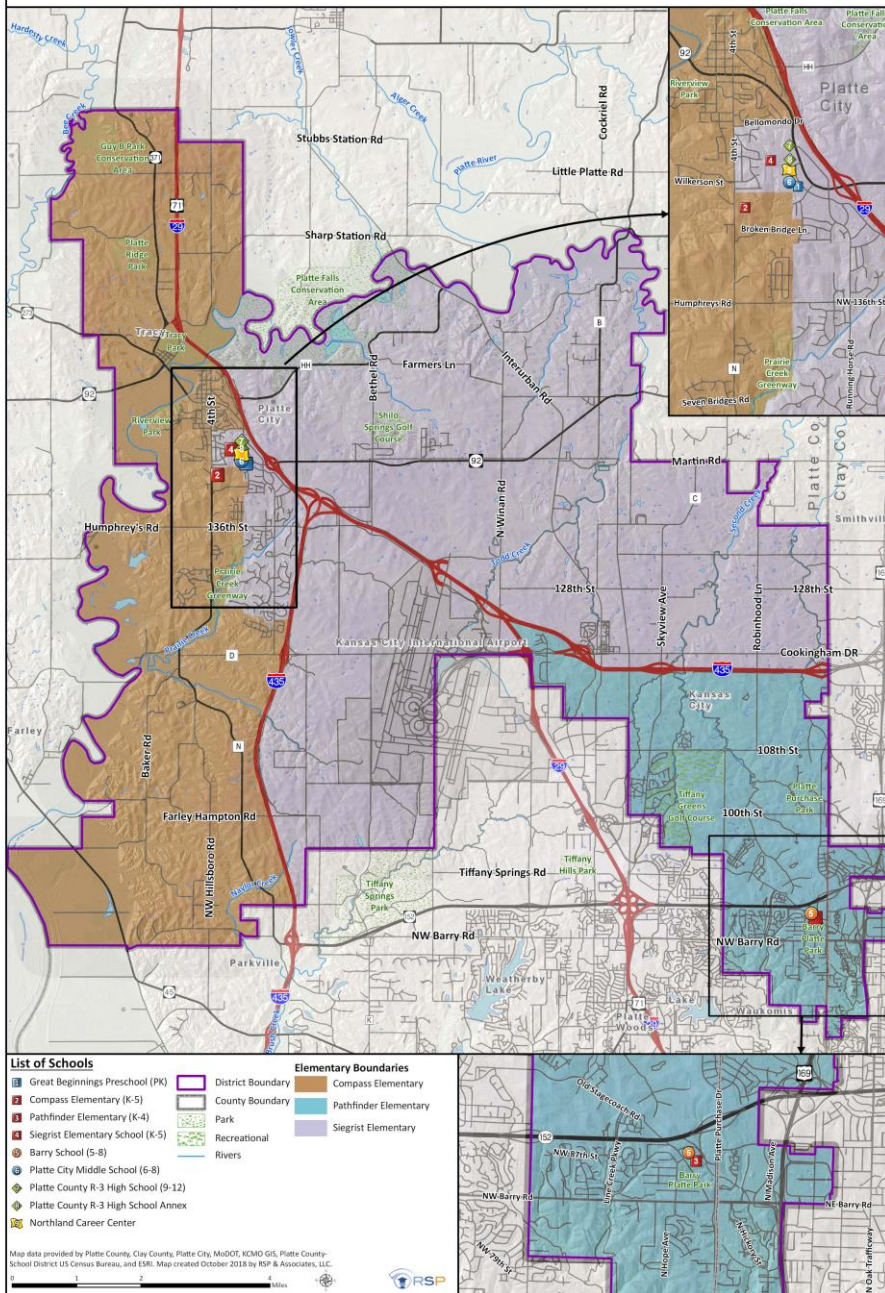
Platte County School District:

Elementary School Attendance Areas



Elementary Attendance Areas

- ☐ District Boundary (Purple Line)
- ☐ Major Streets
- ☐ Major water features & cultural features
- ☐ Attendance Areas
 - ☐ Compass ES (Brown)
 - ☐ Pathfinder ES (Teal)
 - ☐ Siegrist ES (Purple)



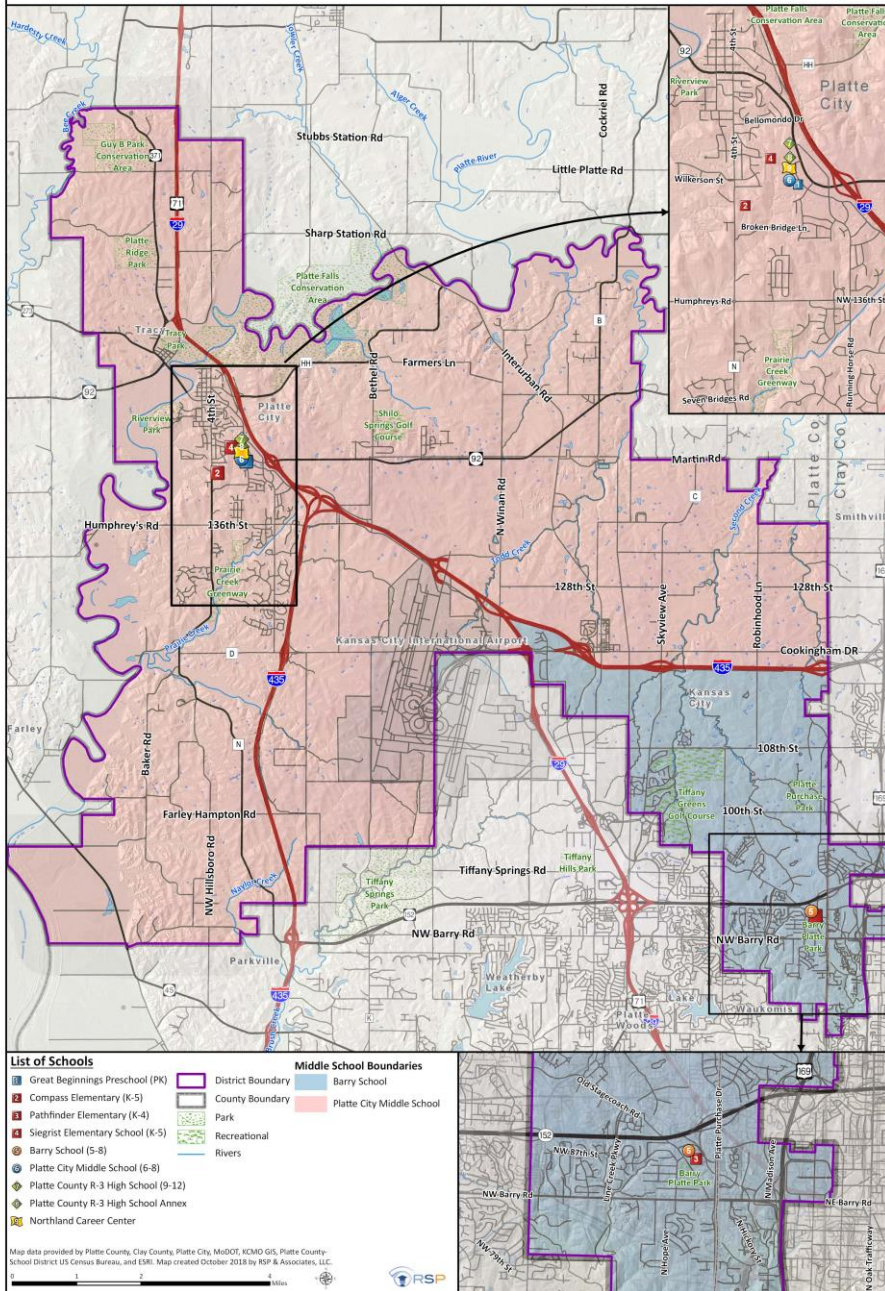
Platte County School District:

Middle School Attendance Areas



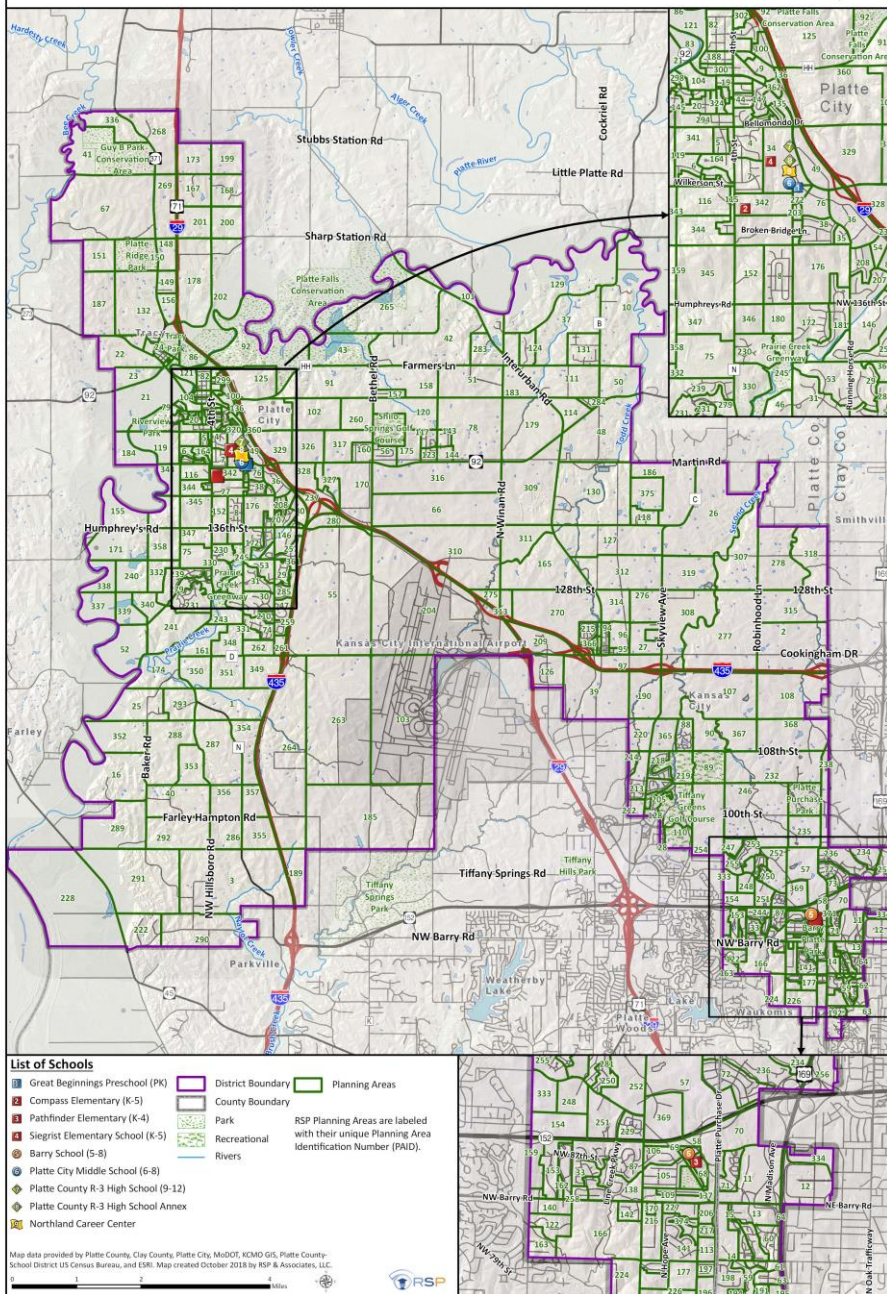
Middle Attendance Areas

- ☐ District Boundary (Purple Line)
- ☐ Major Streets
- ☐ Major water features & cultural features
- ☐ Attendance Areas
 - ☐ Barry School (Blue)
 - ☐ Platte City MS (Red)



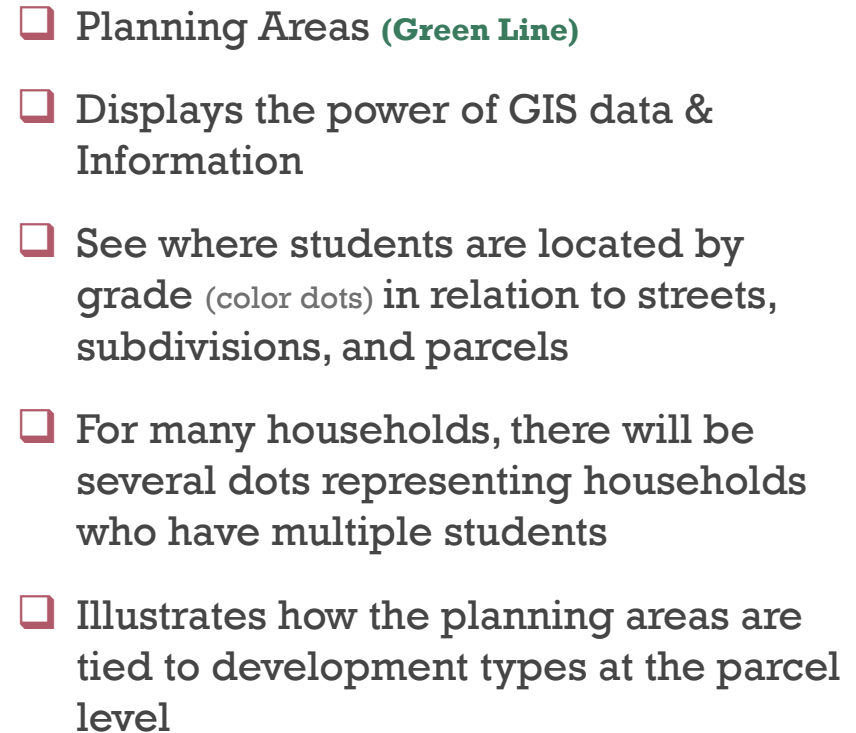
Platte County School District:

Planning Areas



Planning Areas

- ☐ Land Use (Residential, Commercial, Industrial)
- ☐ Residential Density (Single-Family, Mobile Home, Duplex, Apartment)
- ☐ Natural Features (Rivers and Creeks)
- ☐ Manmade Features (Railroad and Streets)
- ☐ Attendance Area
- ☐ There are nearly **400** planning areas RSP monitors for demographic, development, and enrollment data sets



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 report 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
- t = Time (Years)
- GC = Growth component either modeling enrollment increase or decrease based on historical information, expressed as a real number

Developing

$$S_{c, t, x} = S_{c-1, t-1, x} + (BP_{t, x} * R_{c, x})$$

$$\text{Where: } BP_{t, x} = \left(\frac{(CP_x) (BT_x) (A_x)}{\sum_x (CP_x) (BT_x) (A_x)} \right) * CT$$

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
- t = Time (Years)
- BP = Building permit forecast as given by the Building Permit Allocation Model (BPAM) model
- R_{c, 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

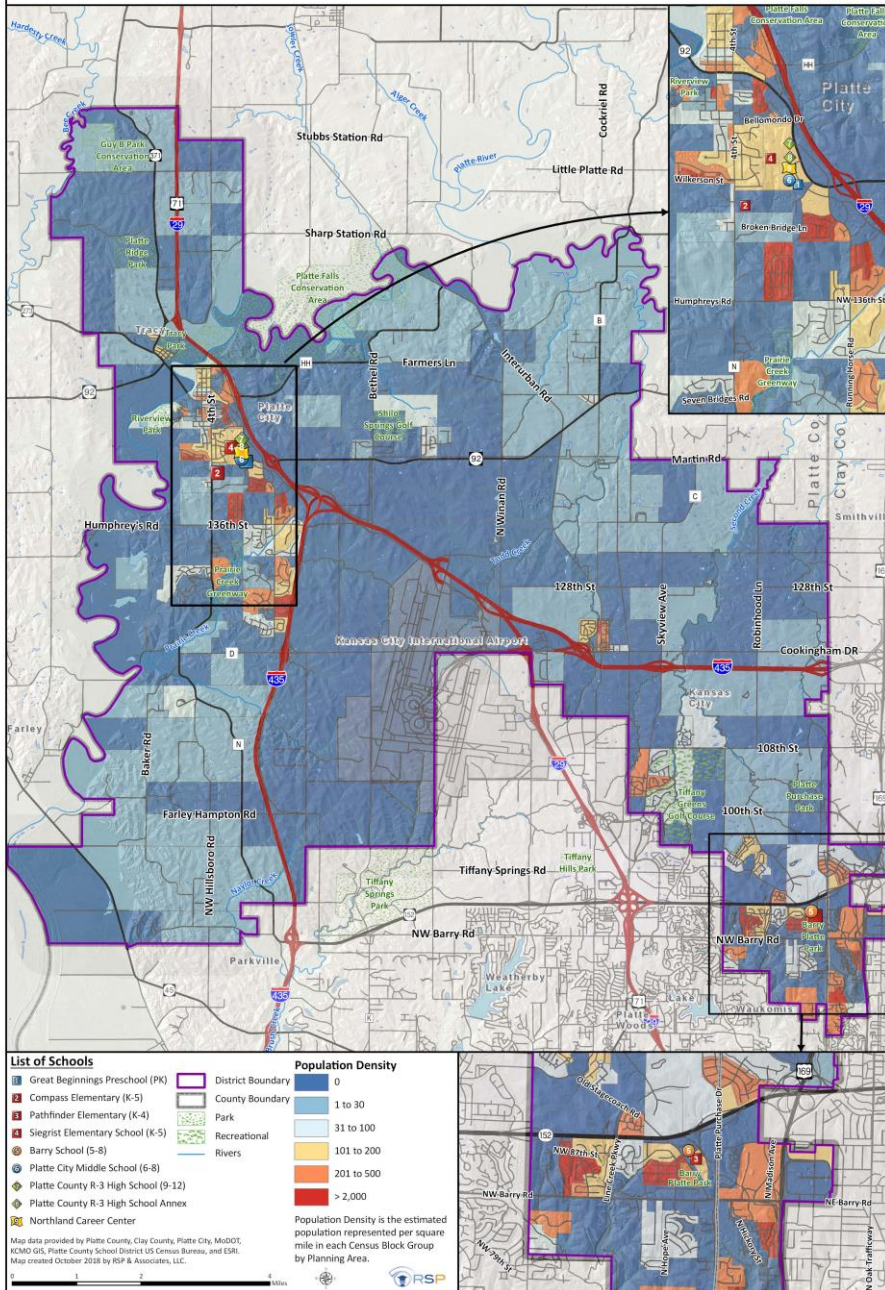
Platte County School District:

Projected Population Density
of Children Ages 0-4 in 2023



Population: Ages 0-4, 2023

- ☐ Depicted by Census Block Group with 2023 estimates
- ☐ Density weighted by land area of each Block Group
- ☐ **Red** areas have greatest density, **Blue** have the least
- ☐ This data helps benchmark the projection model choices for future student enrollment



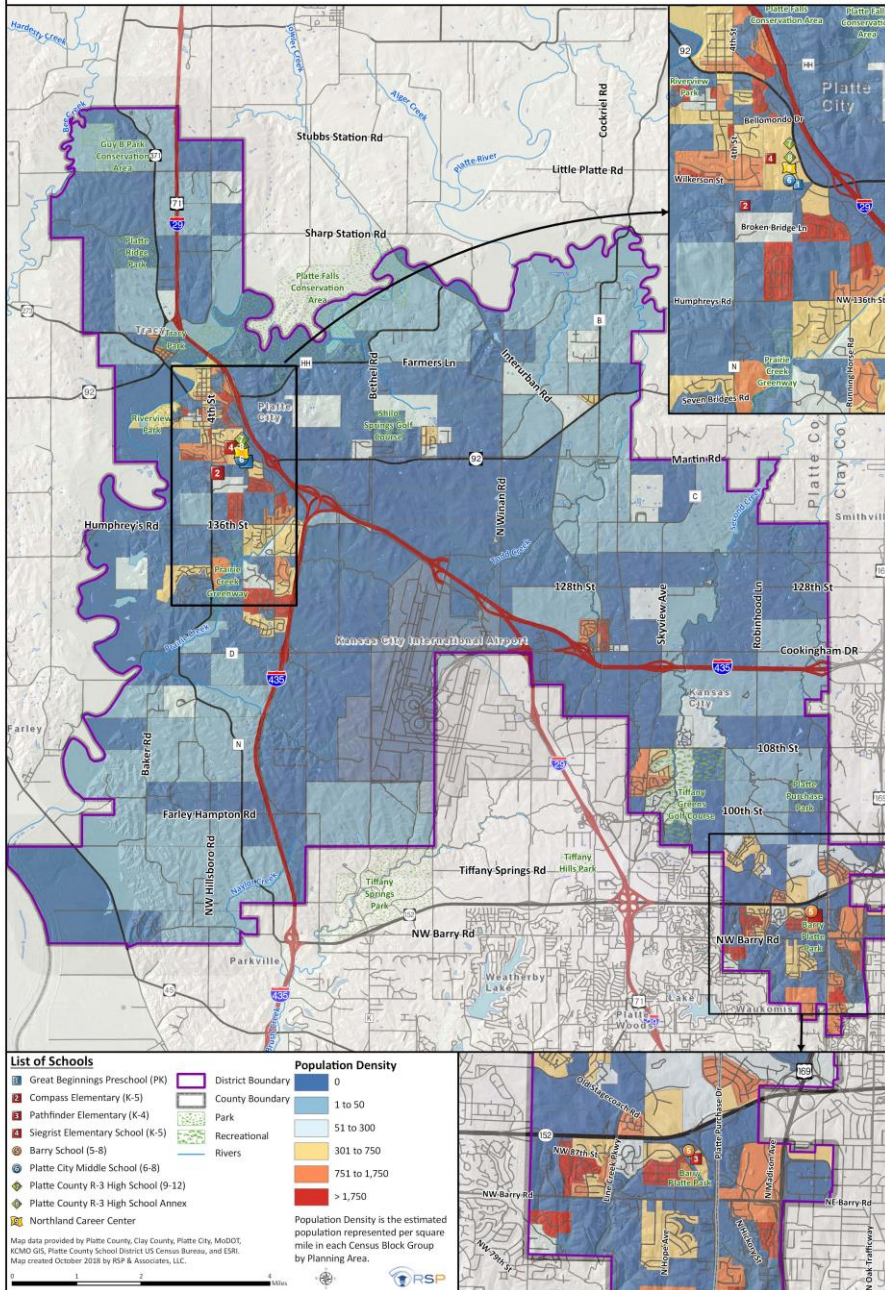
Platte County School District:

Projected Population Density
of Women Ages 15-50 in 2023



Population: Women 15-59, 2023

- ❑ Depicted by Census Block Group with 2023 estimates
- ❑ Density weighted by land area of each Block Group
- ❑ **Red** areas have greatest density, **Blue** have the least
- ❑ This data helps benchmark the projection model choices for future student enrollment



District Demographics

Population

2010-2018 Annual rate

1.71%

Increase

Housing Development

2010-2018 Annual Rate

1.65%

Increase

Income

Per Capita; 2018-2023 Annual Rate

2.87%

Increase

Workforce

Retail Trade

13.0%

Demographic Comparison

	Platte County R-3 School District	Platte County	Clay County	State of Missouri
Unemployment Rate	2.2%	2.7%	3.4%	4.1%
Average Household Size	2.36	2.45	2.53	2.46
Median Age	37.1	39.7	37.6	39.0
Total Population	25,938	99,794	242,051	6,223,738
Median Household Income	\$66,233	\$76,065	\$65,412	\$52,772
Total Housing Units	11,710	43,011	100,423	2,822,100
Owner Occupied Housing Units	5,843	26,347	64,406	1,617,384
Renter Occupied Housing Units	822	2,701	30,378	842,564
Vacancy Rate	7.0%	6.3%	5.6%	12.8%

Ethnicity	Platte County R-3 School District	Platte County	Clay County	State of Missouri
White	78.2%	78.2%	77.4%	77.2%
Black	7.7%	6.8%	6.6%	11.7%
American Indian	0.5%	0.5%	0.6%	0.5%
Asian	2.2%	2.9%	2.5%	2.0%
Pacific Islander	0.3%	0.6%	0.4%	0.1%
Other Race	1.7%	1.6%	2.1%	1.6%
Two or More Races	3.0%	3.0%	3.3%	2.6%
Hispanic	6.4%	6.4%	7.1%	4.3%

What does this mean?

- ☐ Demographic attribute information is mostly consistent between the geographies
- ☐ Population in the district is expected 1.83% the next few years
- ☐ Median Household income is slightly higher than the U.S. rate of \$56,124
- ☐ Vacancy rate among households are significantly lower than the U.S. rate of 11.3%

Past School Enrollment

Enrollment By Grade

Year	PK	K	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	Total	Change	% Change
2003/04	0	208	194	188	174	197	199	186	198	191	185	163	145	167	2,395		
2004/05	0	229	207	211	200	191	207	202	199	214	200	186	169	148	2,563	168	7.0%
2005/06	0	224	231	204	223	204	188	215	208	217	222	204	189	171	2,700	137	5.3%
2006/07	29	223	227	234	222	218	223	197	216	212	219	216	209	172	2,817	117	4.3%
2007/08	36	241	236	231	241	229	223	237	203	226	222	229	214	197	2,965	148	5.3%
2008/09	72	283	258	262	238	253	246	244	241	226	244	232	227	208	3,234	269	9.1%
2009/10	66	294	292	255	262	252	262	262	247	254	241	248	244	195	3,374	140	4.3%
2010/11	75	314	294	309	267	283	263	286	267	265	247	245	244	218	3,577	203	6.0%
2011/12	64	306	309	306	313	267	293	279	283	276	280	244	237	210	3,667	90	2.5%
2012/13	68	302	301	312	310	312	292	295	278	292	260	274	237	203	3,736	69	1.9%
2013/14	53	311	310	299	314	314	319	297	293	282	298	263	263	236	3,852	116	3.1%
2014/15	70	292	319	310	307	325	315	320	303	299	292	286	255	270	3,963	111	2.9%
2015/16	67	339	291	328	312	314	343	317	306	305	292	294	265	259	4,032	69	1.7%
2016/17	78	301	351	287	326	321	317	334	315	301	308	291	285	271	4,086	54	1.3%
2017/18	85	299	322	331	303	330	319	312	344	319	320	308	291	289	4,172	86	2.1%
2018/19	68	335	312	326	355	293	347	329	326	338	320	323	295	280	4,247	75	1.8%

Source: Platte County R-3 School District

Table Explanation:

- ❑ Largest class in 2018/19 – **3rd** grade **(355)**
- ❑ Smallest class in 2018/19 – **12th** grade **(280)**
- ❑ Graduating senior class smaller than the incoming Kindergarten class

Enrollment Change

Enrollment Grade Change

From	To	PK PK	PK K	K 1st	1st 2nd	2nd 3rd	3rd 4th	4th 5th	5th 6th	6th 7th	7th 8th	8th 9th	9th 10th	10th 11th	11th 12th	Total Change
2003/04	2004/05	0	229	-1	17	12	17	10	3	13	16	9	1	6	3	168
2004/05	2005/06	0	224	2	-3	12	4	-3	8	6	18	8	4	3	2	137
2005/06	2006/07	29	223	3	3	18	-5	19	9	1	4	2	-6	5	-17	117
2006/07	2007/08	7	212	13	4	7	7	5	14	6	10	10	10	-2	-12	148
2007/08	2008/09	36	247	17	26	7	12	17	21	4	23	18	10	-2	-6	269
2008/09	2009/10	-6	222	9	-3	0	14	9	16	3	13	15	4	12	-32	140
2009/10	2010/11	9	248	0	17	12	21	11	24	5	18	-7	4	-4	-26	203
2010/11	2011/12	-11	231	-5	12	4	0	10	16	-3	9	15	-3	-8	-34	90
2011/12	2012/13	4	238	-5	3	4	-1	25	2	-1	9	-16	-6	-7	-34	69
2012/13	2013/14	-15	243	8	-2	2	4	7	5	-2	4	6	3	-11	-1	116
2013/14	2014/15	17	239	8	0	8	11	1	1	6	6	10	-12	-8	7	111
2014/15	2015/16	-3	269	-1	9	2	7	18	2	-14	2	-7	2	-21	4	69
2015/16	2016/17	11	234	12	-4	-2	9	3	-9	-2	-5	3	-1	-9	6	54
2016/17	2017/18	7	221	21	-20	16	4	-2	-5	10	4	19	0	0	4	86
2017/18	2018/19	-17	250	13	4	24	-10	17	10	14	-6	1	3	-13	-11	75
3-Yr Avg		0.3	235.0	15.3	-6.7	12.7	1.0	6.0	-1.3	7.3	-2.3	7.7	0.7	-7.3	-0.3	71.7
3-Yr Wavg		-4.3	237.7	15.5	-5.3	17	-2.2	8.3	1.8	10	-2.5	7.3	1.3	-8	-3.2	75.2

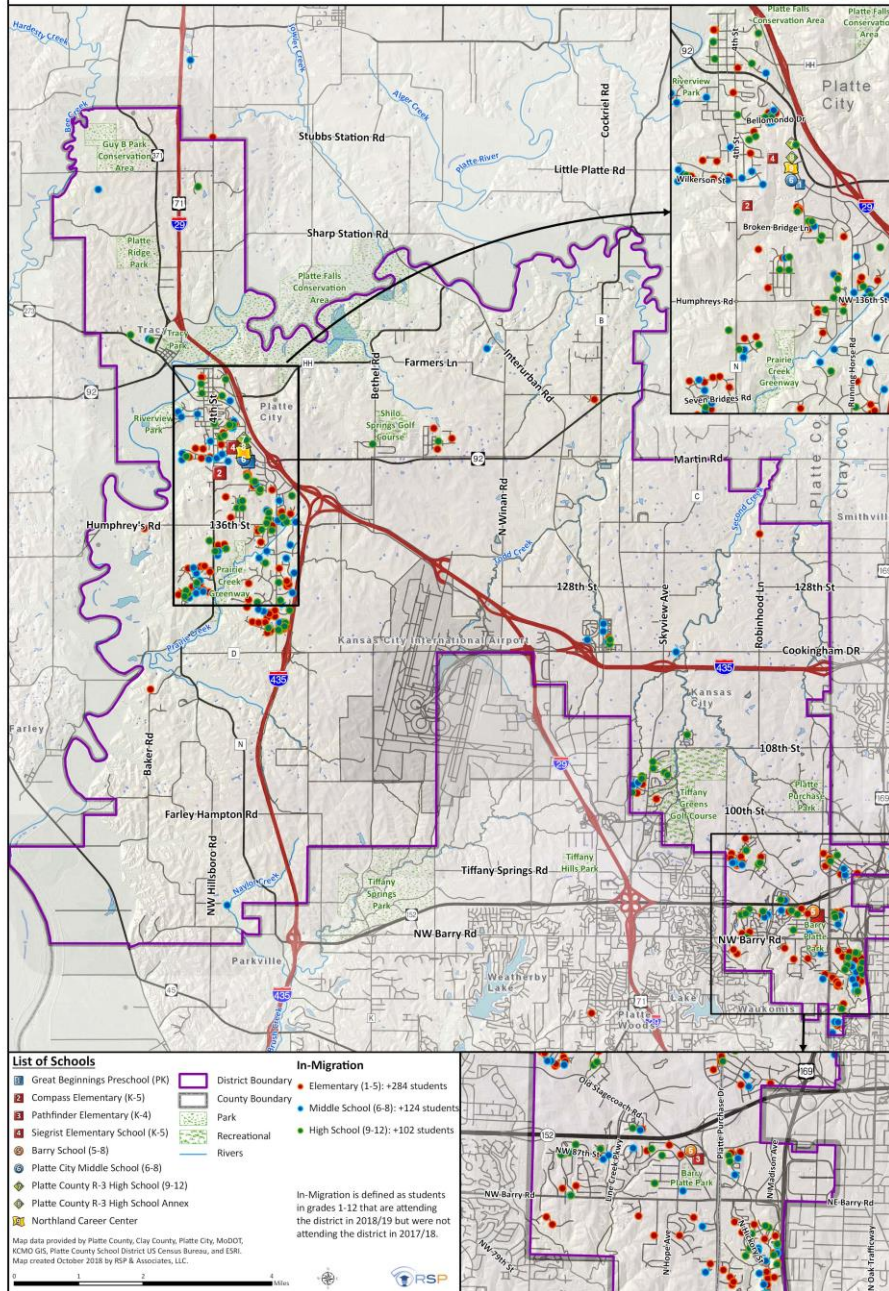
Source: Platte County R-3 School District

What does this mean? – *Change varies by grade*

- ☐ Largest average K-12 class increase – **Kdg to 1st grade (+15)**
- ☐ Largest average K-12 class decrease – **10th to 11th grade (-7)**
- ☐ Propensity to have varying cohort change in every grade

Platte County School District:

Student In-Migration
in 2018/19

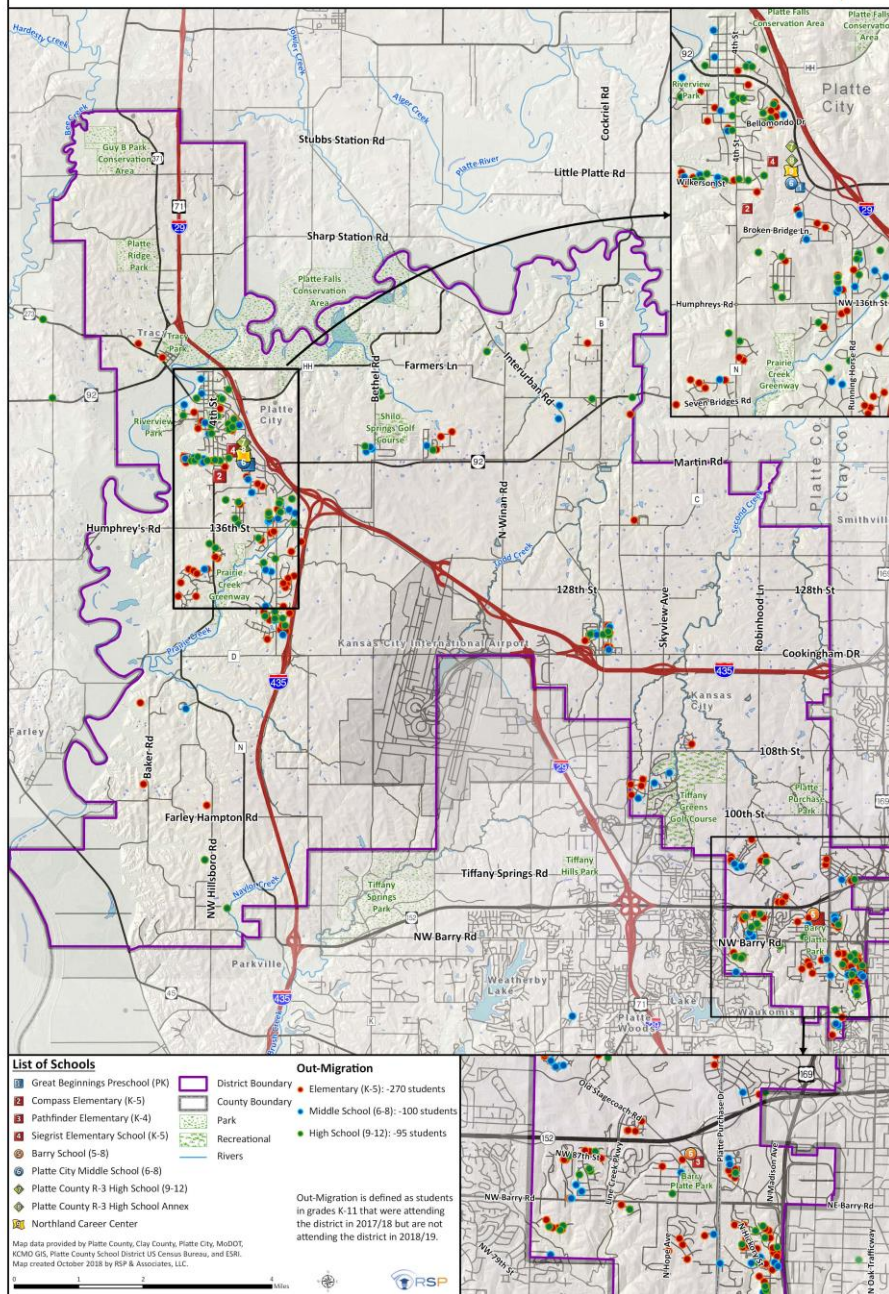


Student In-Migration

- ❑ Students entering the district who did not attend the previous year
- ❑ 2018/19 students who are in 1st through 12th grade that were not attending the District in 2017/18 as Kindergarten through 11th grade
 - **477** new students in 2015/16
 - **461** new students in 2016/17
 - **510** new students in 2018/19
- ❑ Provides insight into where new students households are choosing to live

Platte County School District:

Student Out-Migration
in 2018/19



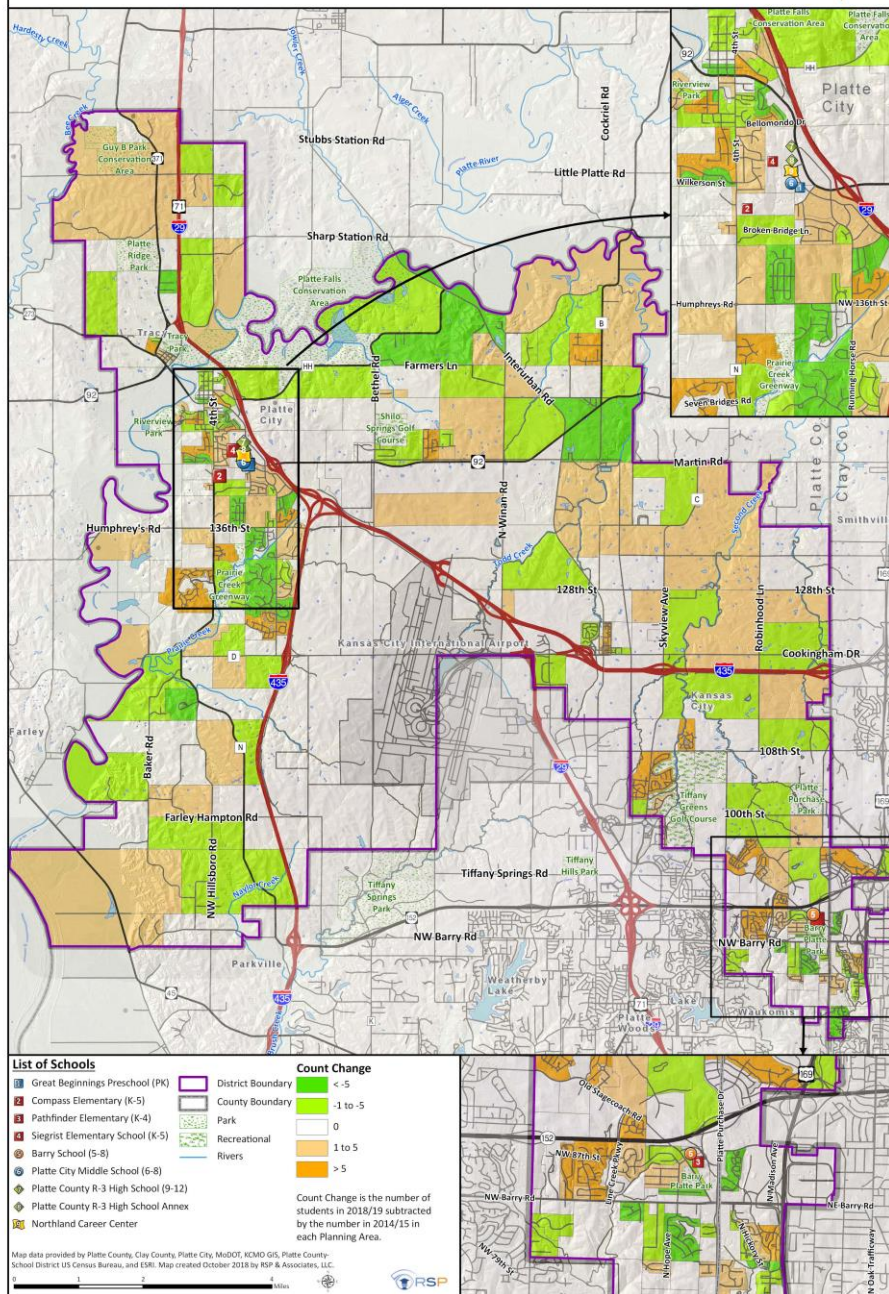
Student Out-Migration

- ❑ Students leaving the district who attended the previous year
- ❑ Students attending the district in 2017/18 who were in Kindergarten through 11th grade that did not attend in 2018/19 as 1st through 12th grader
 - **479** students left the district in **2015/16**, **Total Migration -9**
 - **460** students left the district in **2016/17**, **Total Migration +1**
 - **465** students left the district in **2018/19**, **Total Migration +45**
- ❑ Provides insight into where the leaving student households were living
- ❑ Baseline to determine potential regeneration of students

Platte County

School District:

Student Count Change from
2014/15 to 2018/19
in Grades PK-12

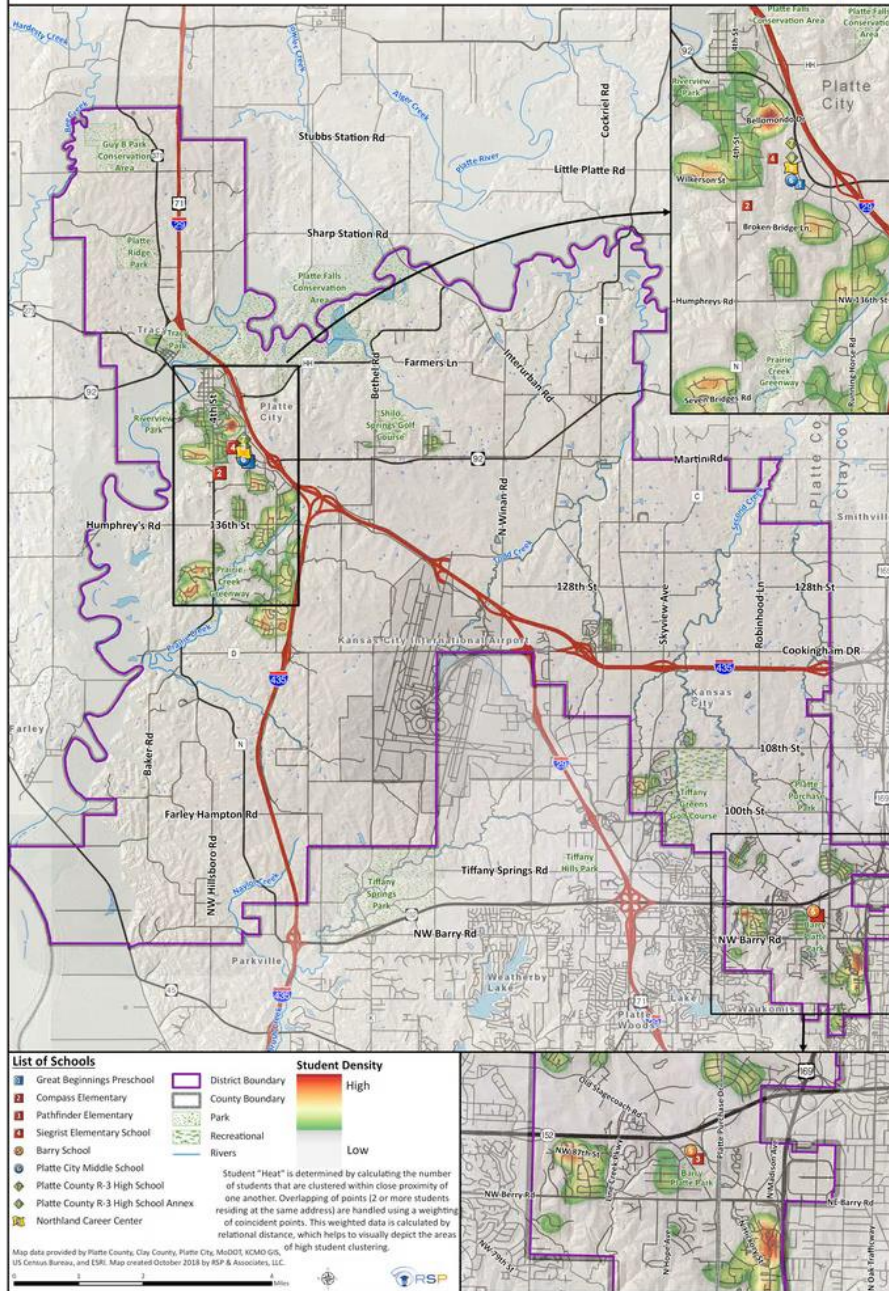


Student Count Change

- Depicts student movement at each Planning Area from **2014/15** to **2018/19**
- Orange** areas experienced an increase since **2014/15**
- Green** areas experienced a decrease since **2014/15**
- White** areas had no net change of students between **2014/15** to **2018/19**
- New developments have a greater propensity to have more students in future years

Platte County School District:

Student 'Heat' Density
in 2018/19



Student "Heat" Density

- Red areas depict highest density of students, Gray as lowest student density
- Overlapping points (2 or more students) are handled using a weighting of coincident points
- Greatest student density located in Platte City and southern portion of the district near Barry Rd – this has remained consistent over the last decade
- Newer developments and/or most affordable areas tend to have the greatest density



Enrollment Conclusion

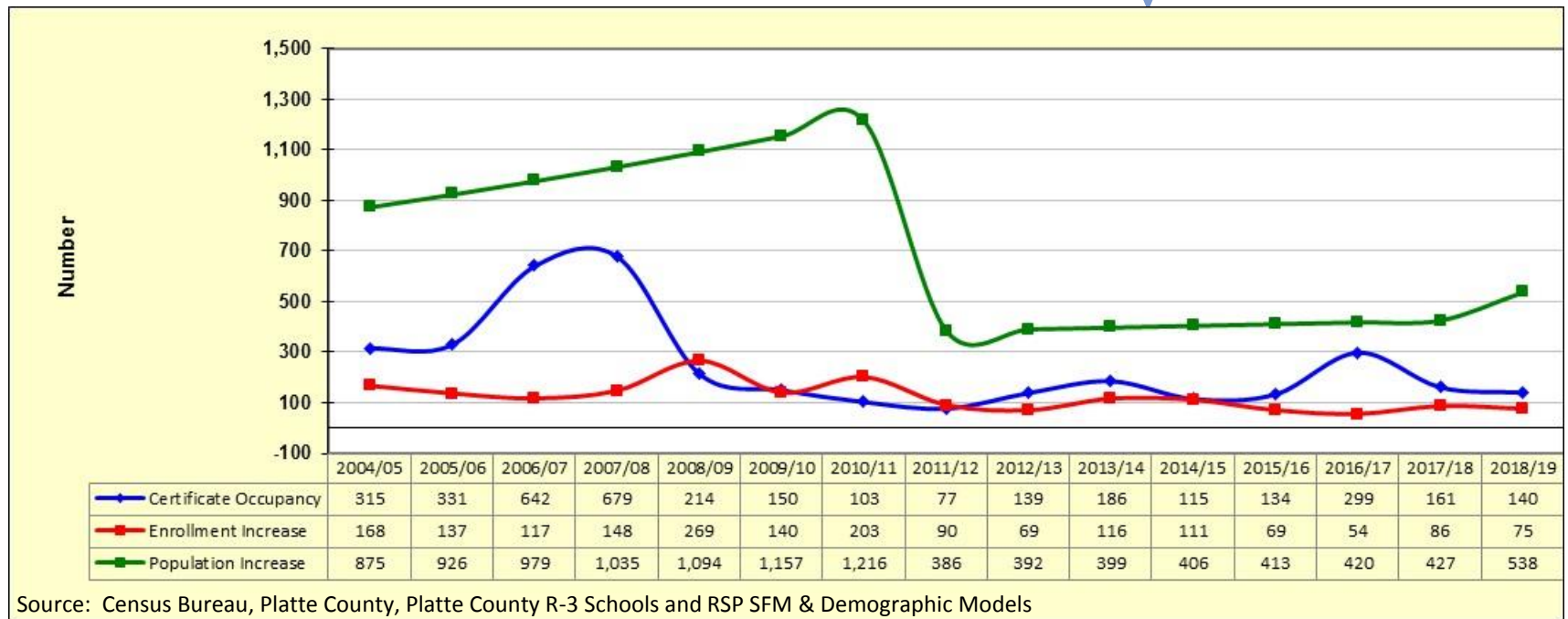
The following are some general enrollment observations;

- ❑ The district has maintained contiguous boundaries for elementary schools
- ❑ RSP & Associates monitors nearly [400](#) planning areas for demographic, development, and enrollment data sets
- ❑ Direct correlation between women in child bearing ages (15-59) and where children (0-4) reside
- ❑ Enrollment tends to increase from grade to grade each year at each level
 - Large increases happen from Kdg to 1st grade
 - Large decreases happen from 10th to 11th grade
- ❑ Larger elementary school grades will result in future Larger secondary school grades
- ❑ Greatest student density located in Platte City and southern portion of the district near Barry Rd – this has remained consistent over the last decade

Part Two: Development

Visualizing Success

Population, Development, Enrollment



Graphic Explanation

- ☐ Census data indicates an increasing population
- ☐ Building trend indicates there has been steady new residential activity
- ☐ Student Enrollment growth has remained positive for over a decade

What Does This Mean

- ☐ Households moving into the district continue to have school aged children
- ☐ With development similar over the next five years there are likely to be more new students
- ☐ Older areas of the community have the possibility of having more children than in the past

Student Yield Rate

Single Family (SF)

Schools	Year																Average
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Compass Elementary	0.22	0.23	0.21	0.21	0.23	0.24	0.27	0.30	0.30	0.29	0.27	0.27	0.27	0.29	0.28	0.29	0.26
Pathfinder Elementary	0.16	0.18	0.16	0.14	0.15	0.17	0.18	0.18	0.19	0.18	0.18	0.19	0.19	0.18	0.19	0.21	0.18
Siegrist Elementary	0.23	0.23	0.23	0.25	0.25	0.28	0.27	0.28	0.27	0.26	0.26	0.25	0.24	0.24	0.23	0.22	0.25
Total (PK-5)	0.62	0.63	0.61	0.61	0.63	0.69	0.72	0.75	0.75	0.73	0.71	0.70	0.71	0.71	0.69	0.72	0.69

Source: Platte County R-3 School District and Platte County

Multi-Family (MF)

Schools	Year																Average
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Compass Elementary	0.13	0.14	0.13	0.14	0.11	0.12	0.11	0.13	0.12	0.14	0.13	0.14	0.15	0.12	0.13	0.14	0.13
Pathfinder Elementary	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.08	0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.08
Siegrist Elementary	0.17	0.17	0.15	0.15	0.13	0.13	0.11	0.14	0.14	0.14	0.13	0.14	0.15	0.12	0.14	0.13	0.14
Total (PK-5)	0.35	0.36	0.33	0.34	0.30	0.31	0.30	0.34	0.36	0.38	0.38	0.39	0.40	0.36	0.36	0.36	0.35

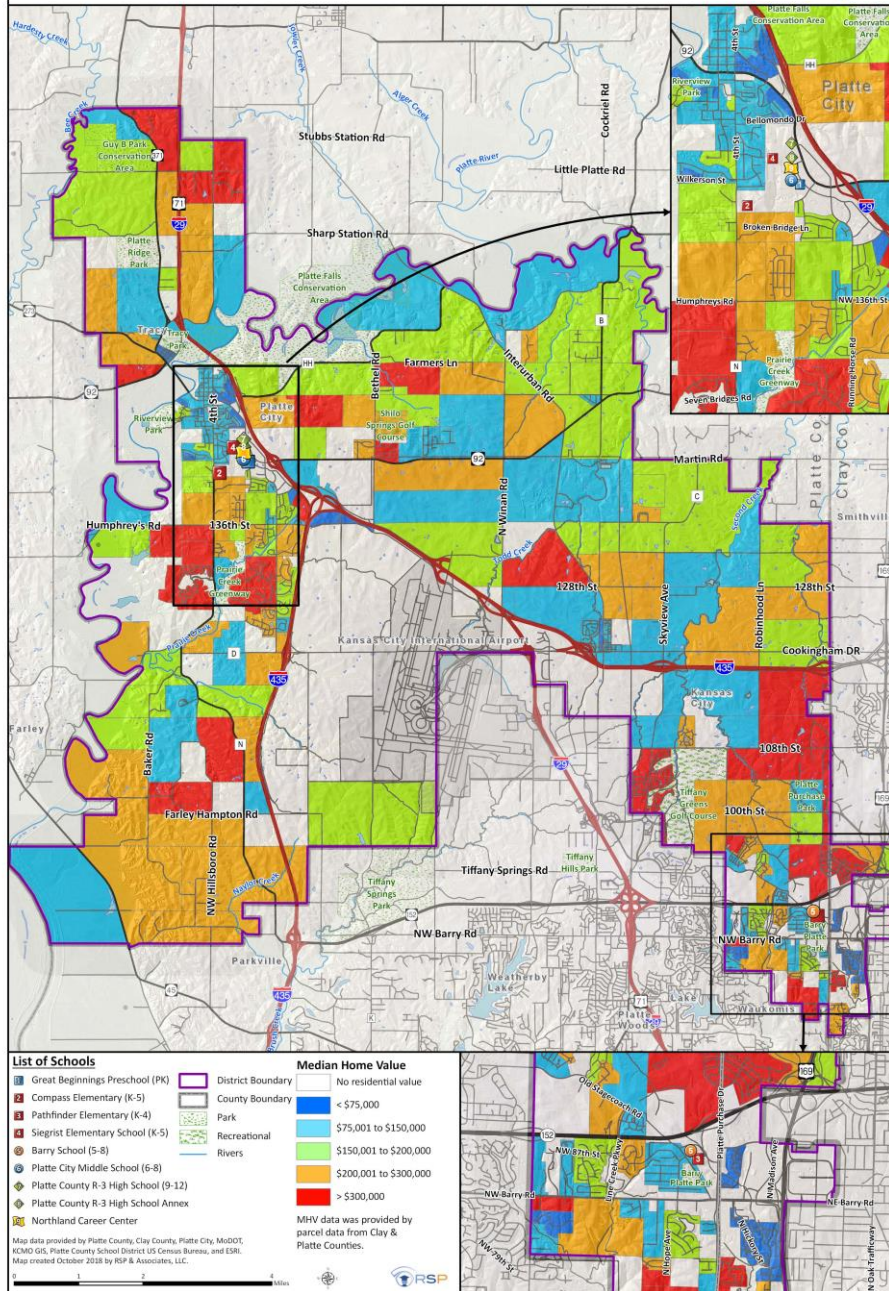
Source: Platte County R-3 School District and Platte County

Graphic Explanation

- ☐ Yield rates are for elementary students choosing to attend Platte County schools
- ☐ Student yield rates for Single/Multi Family have remained consistent for the last decade
- ☐ Single-Family residential average (.69) has a higher student yield rate, compared to Multi-Family residential (.35) within the district
- ☐ Adding newer housing inventory typically can increase the yield rate
- ☐ Type of housing is monitored as some planning areas (single-family or multi-family) do not necessarily lead to similar yield rates and may change from year to year

Platte County School District:

Median Home Value



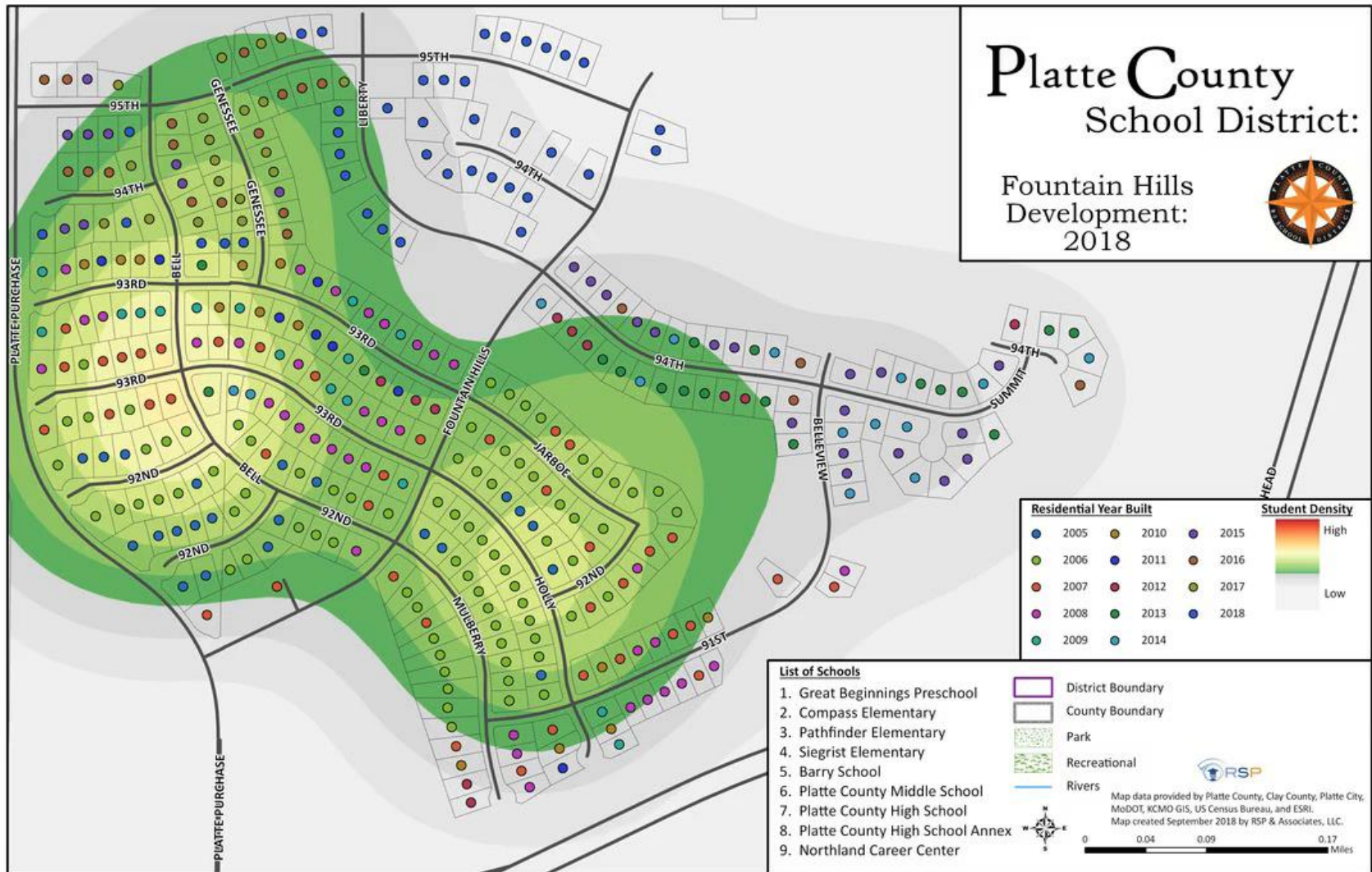
Median Home Value

- Based on assessed Home Value as provided and maintained by the county assessor's office
- Depicted by Median Value in each Planning Area
- Home values likely correlated to socio-economic status – new areas tend to be the least affordable
- Areas shaded in **Orange** and **Red** have the greatest Median Home Value
- Areas shaded in **Blue** represent the greatest affordability
- Large mix of housing options available

Residential Build Out

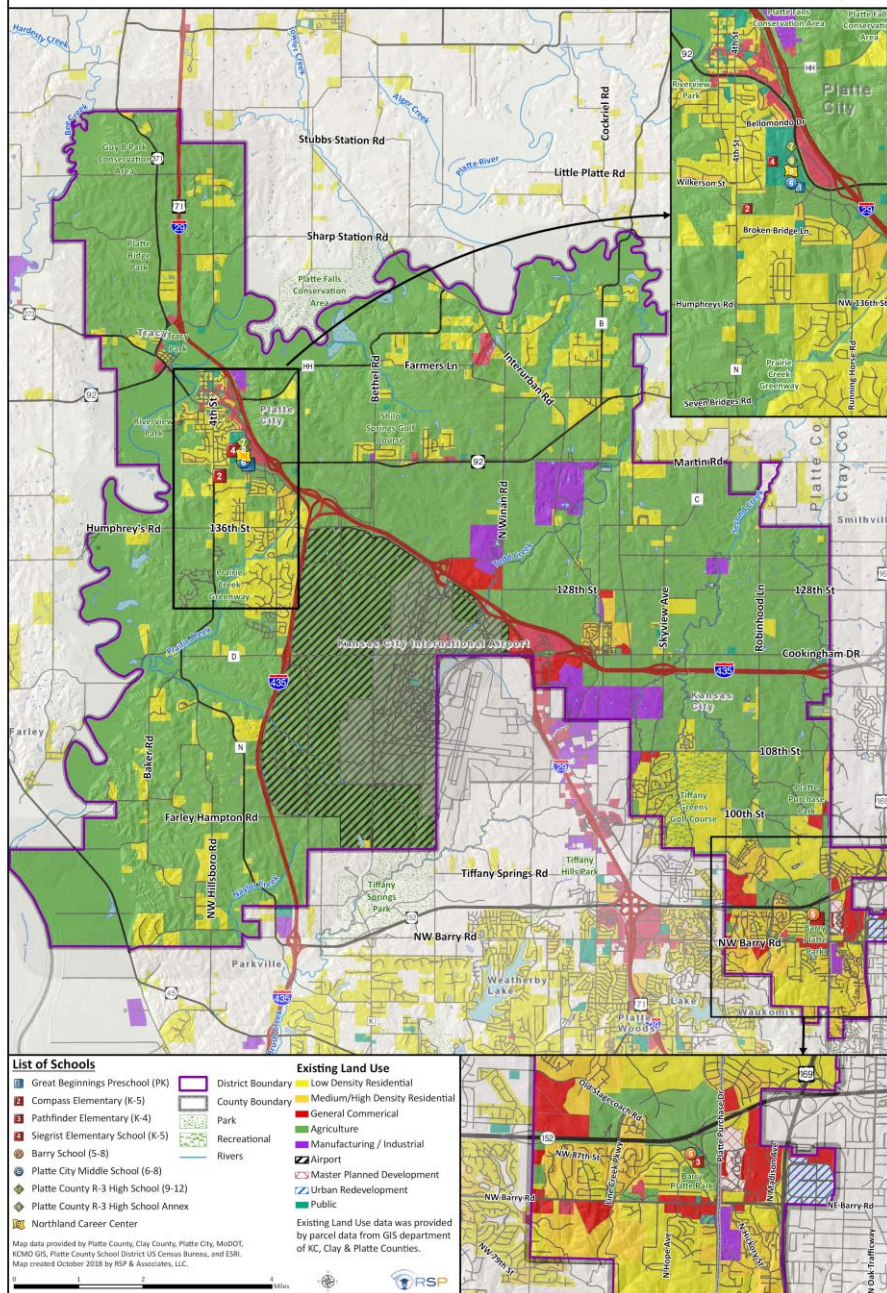


- Reveals timing of housing subdivision Fountain Hills
- Colors of dots represent a specific year according to the county assessor's office
- Depicts student density in relation to year built
- Some new areas do not necessarily lead to similar yield rates of like developments



Platte County School District:

Existing Land Use

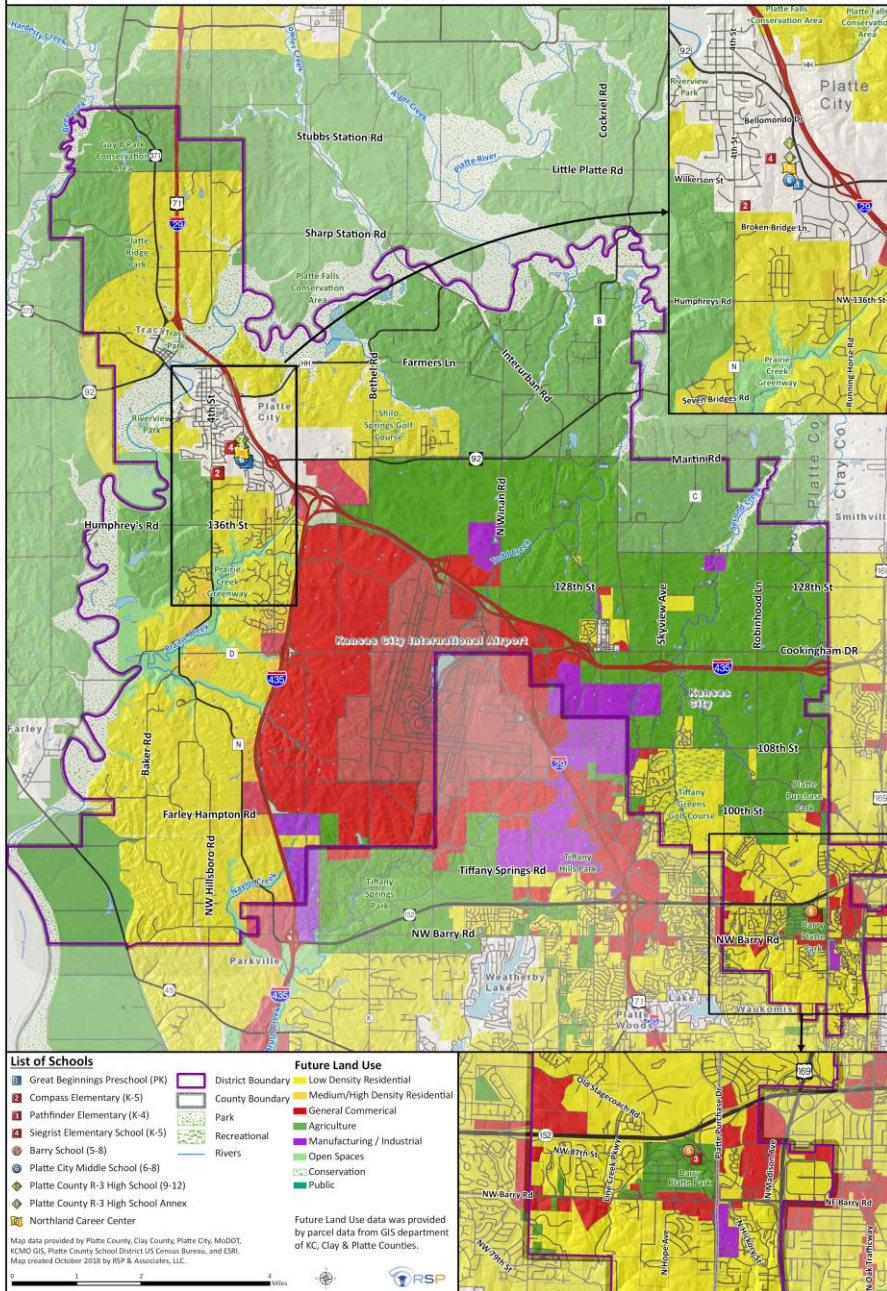


Existing Land Use

- Identifies the current type use areas within the district can be used for
- Illustrates where employment centers are located (**Purple** and **Red**)
- Yellow** and **Orange** areas represent residential
- Agricultural areas (**Green**) are the most likely to be rezoned to another use

Platte County School District:

Future Land Use

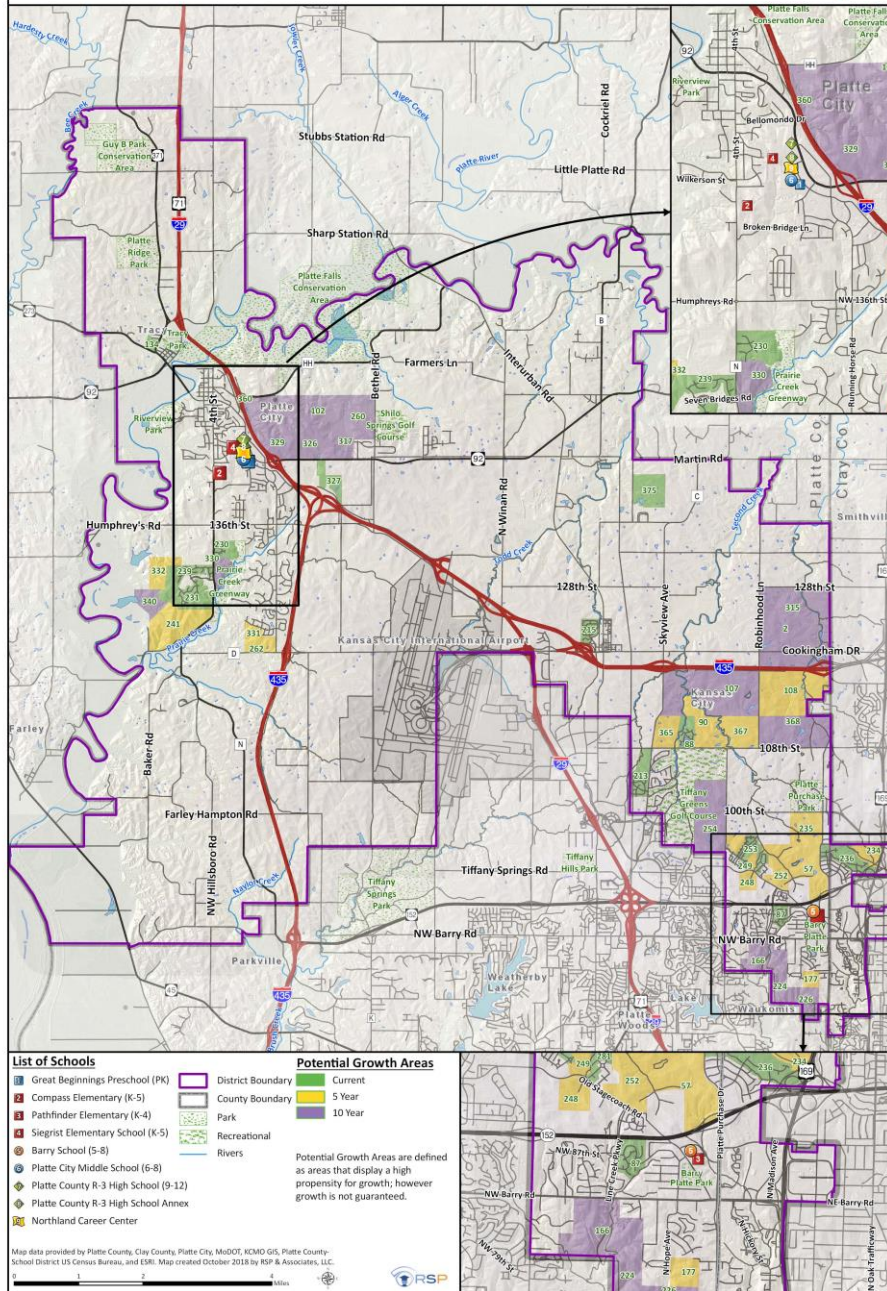


Future Land Use

- Identifies the future type use areas within the district can be used for
- Illustrates where employment centers are located (**Purple** and **Red**)
- Yellow** and **Orange** areas represent residential
- Agricultural areas (**Green**) have largely been rezoned to commercial and residential

Platte County School District:

Potential Growth Areas



Growth Areas

- Growth areas are created from existing land use, future land use, capital improvement plan, zoning, and city staff input
- Identifies where development activity is happening (**Green**)
- Identifies possible areas that could develop (**Yellow** and **Purple**)
- The market and property owners desire to build guides the timing of development
- Most growth areas dependent on infrastructure improvements
- Other properties not shown might develop while some shown might not develop
- There are many opportunities for development to happen within district boundary

Development Conclusion

The following are some general development observations;

- ☐ Population and Building activity continue to increase (steady)
- ☐ There is a considerable amount of development opportunity (Industrial and Residential Infill)
- ☐ Single-Family residential has the highest propensity to have school aged students, yield rates of this development type are much higher than that of Multi-Family
- ☐ Areas for growth are most likely to happen at the five to ten year mark, growth in these areas are dependent on access to infrastructure
- ☐ Future residential development activity is dependent on the economy, specifically employment, interest rates, and home foreclosures
- ☐ Tracking the types of development is important to understand the yield rate of students for every part of the community – there are varying yield rates with all developments
- ☐ Local incentives will allow for future industrial development growth

Part Three: Enrollment Projections

Visualizing Success

Projection Accuracy

Elementary

- Projected: 2,038
- Actual: 2,036
- Accuracy: **99.9%**



High School

- Projected: 1,210
- Actual: 1,218
- Accuracy: **99.3%**

Middle School

- Projected: 977
- Actual: 993
- Accuracy: **98.4%**

District

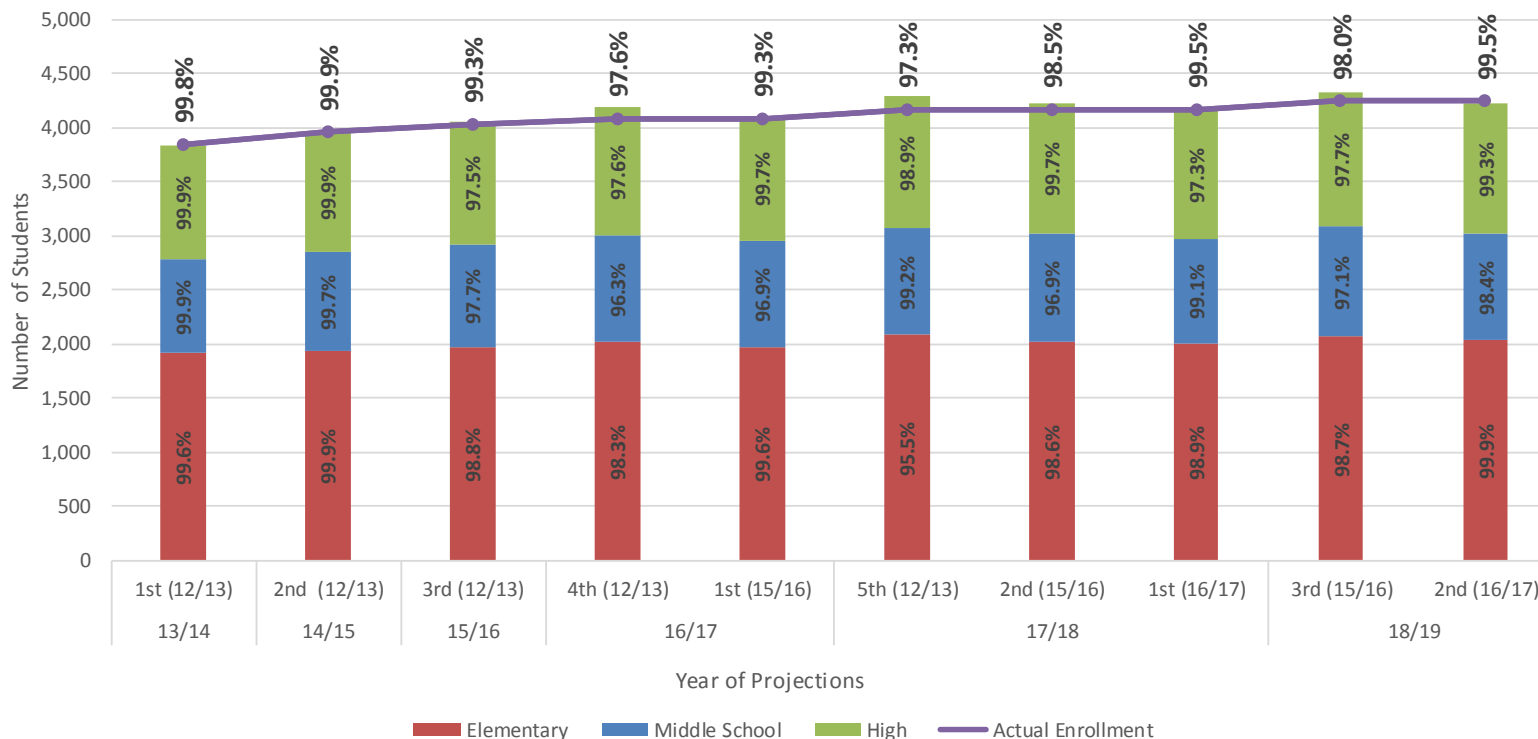
- Projected: 4,225
- Actual: 4,247
- Accuracy: **99.5%**

Notes:

- ❑ This accuracy is the 2nd year of the RSP Projections, conducted in 16/17
- ❑ Demographic shifts with millennials impacting future enrollment (Jobs, Jobs, Jobs)
- ❑ Lower Kdg enrollment and unique double digit decreases from 5th through 8th grade impacted the secondary projections (trend of larger Kdg class followed by smaller Kdg class)
- ❑ Many areas of the community having significant demographic shifts influencing changes in enrollment
- ❑ A good portion of analysis spent on what is happening at the Elementary school grades to determine if there are emerging trends

Accuracy Trends

5-Year Projection Accuracy

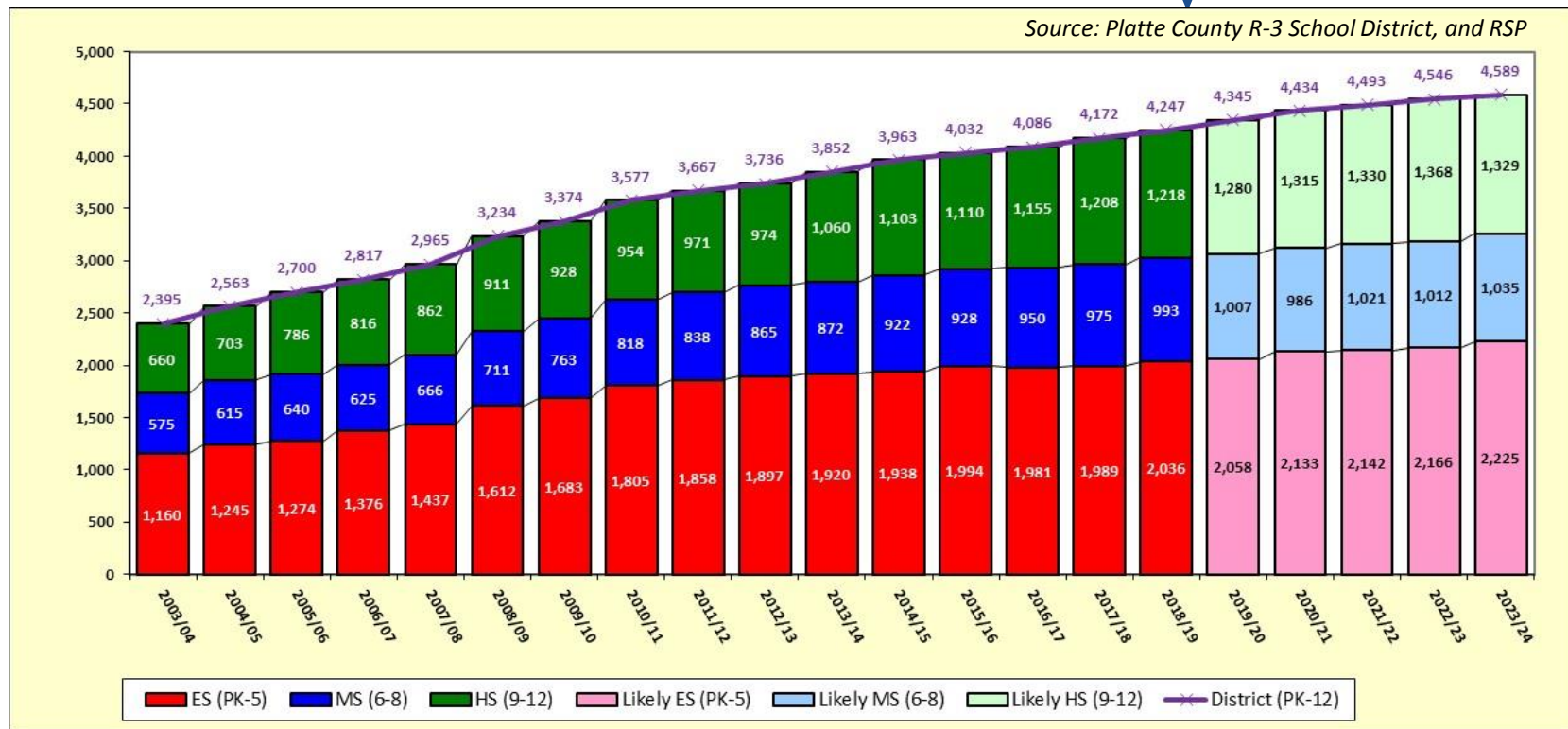


Source; Platte County School District, RSP Sophisticated Forecast Model (SFM)

What does this Mean?

- ❑ RSP has maintained an average of 98.9% for district enrollment for 10 projections
- ❑ As the projection year gets closer the propensity for increased accuracy is the result
- ❑ 5th year 17/18 projections conducted in 12/13 has the accuracy of 97.3%, while 1st year 17/18 projections conducted in 16/17 has the accuracy of 99.5%
- ❑ The RSP projections should be integrated into all areas of district planning

Past, Current, Future Enrollment



What Does This Mean

- ❑ Enrollment Change – Overall enrollment increase anticipated (PK-5, 6-8, and 9-12)
- ❑ Increases based on continued development opportunities within the district
- ❑ District increases by nearly 350 students (8.1%) (2.1% to 7.6% a year)
- ❑ Elementary increases by nearly 200 students (+9.3%) (0.4% to 3.6% a year)
- ❑ Middle School increases by nearly 40 students (+4.2%) (-2.1% to 3.5% a year)
- ❑ High School increases by over 100 students (+9.1%) (-2.9% to 5.1% a year)
- ❑ PK = Early Childhood

Building Level Projections

School	Functional Capacity	Student Location	Past School Enrollment			Projections Based on Residence				
			2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Great Beginnings Preschool PK	0	Reside/Attend Reside Attend	78 78 78	85 85 85	68 68 68	73	73	73	73	73
Compass Elementary K to 5th NORTH FEEDER	628	Reside/Attend Reside Attend	558 581 584	559 588 586	613 629 632	641	661	647	659	676
Pathfinder Elementary K to 4th SOUTH FEEDER	648	Reside/Attend Reside Attend	591 603 593	595 601 597	610 622 610	662	693	719	737	739
Siegrist Elementary K to 5th NORTH FEEDER	680	Reside/Attend Reside Attend	601 621 635	578 603 613	576 589 601	578	581	573	568	592
ES BUILDING SCHOOL TOTAL K to 5th (Barry School 5th grade in MS Total)	1,956	Reside/Attend Reside Attend	1,828 1,883 1,890	1,817 1,877 1,881	1,867 1,908 1,911	1,954	2,008	2,012	2,037	2,080

Source: RSP & Associates, LLC - November 2018



Over School Functional Capacity

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

Note 2: The Enrollment Model is based on a Head count of students by Planning Area at each facility

Note 3: Transfers between Facilities are not factored into the Projections

Note 4: The Enrollment Model assumes ES(PK-5) MS(6-8) and HS (9-12)

Note 5: Each planning area is assigned the 2018/19 boundary (Boundary Change happened for 16/17 school year)

Note 6: School capacity provided by the District

Note 7: Reside is based on the student home address

Note 8: Attend is based on which facility the student attends

Note 9: Res/Att (Reside/Attend) are the students who reside in the attendance area that they have chosen to attend

Building Level Projections

School	Functional Capacity	Student Location	Past School Enrollment			Projections Based on Residence				
			2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Barry School 5th to 8th SOUTH FEEDER	555	Reside/Attend Reside Attend	351 362 356	375 389 382	408 420 408	435	469	490	488	527
Platte City Middle School 6th to 8th NORTH FEEDER	809	Reside/Attend Reside Attend	681 686 685	691 698 701	701 701 710	676	642	661	653	653
Platte County High School 9th to 12th	1,502	Reside/Attend Reside Attend	1,155 1,155 1,155	1,208 1,208 1,208	1,218 1,218 1,218	1,280	1,315	1,330	1,368	1,329
ES BUILDING SCHOOL TOTAL K to 5th (Barry School 5th grade in MS Total)	1,956	Reside/Attend Reside Attend	1,828 1,883 1,890	1,817 1,877 1,881	1,867 1,908 1,911	1,954	2,008	2,012	2,037	2,080
MS BUILDING SCHOOL TOTAL 6th to 8th (Barry School 5th grade in MS Total)	1,364	Reside/Attend Reside Attend	1,032 1,048 1,041	1,066 1,087 1,083	1,109 1,121 1,118	1,111	1,111	1,151	1,141	1,180
HIGH TOTAL 9th to 12th	1,502	Reside/Attend Reside Attend	1,155 1,155 1,155	1,208 1,208 1,208	1,218 1,218 1,218	1,280	1,315	1,330	1,368	1,329
DISTRICT TOTALS PK to 12th	4,822	Reside/Attend Reside Attend	4,015 4,086 4,086	4,091 4,172 4,172	4,194 4,247 4,247	4,345	4,434	4,493	4,546	4,589

Source: RSP & Associates, LLC - November 2018



Over School Functional Capacity

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

Note 2: The Enrollment Model is based on a Head count of students by Planning Area at each facility

Note 3: Transfers between Facilities are not factored into the Projections

Note 4: The Enrollment Model assumes ES(PK-5) MS(6-8) and HS (9-12)

Note 5: Each planning area is assigned the 2018/19 boundary (Boundary Change happened for 16/17 school year)

Note 6: School capacity provided by the District

Note 7: Reside is based on the student home address

Note 8: Attend is based on which facility the student attends

Note 9: Res/Att (Reside/Attend) are the students who reside in the attendance area that they have chosen to attend


Building Grade Level Projections

RESIDE

2019/20 School Year

School	Functional Capacity	Grade														Total
		PK	Kind	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	
Great Beginnings Preschool	0	73														73
Compass Elementary	628		109	103	98	106	125	100								641
Pathfinder Elementary	648		136	145	125	132	124									662
Siegrist Elementary	680		93	99	84	100	108	94								578
Barry School	555							104	127	112	92					435
Platte City Middle School	809								220	222	234					676
Platte County High School	1,502											344	322	318	296	1,280
DISTRICT TOTALS	4,822	73	338	347	307	338	357	298	347	334	326	344	322	318	296	4,345

Source: RSP & Associates, LLC - November 2018


 Over School Functional Capacity

ATTEND

2019/20 School Year

School	Functional Capacity	Grade														Total
		PK	Kind	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	
Great Beginnings Preschool	0	73														73
Compass Elementary	628		113	107	98	105	124	99								646
Pathfinder Elementary	648		130	139	125	130	121									645
Siegrist Elementary	680		95	101	84	103	112	96								591
Barry School	555							103	124	109	88					424
Platte City Middle School	809								223	225	238					686
Platte County High School	1,502											344	322	318	296	1,280
DISTRICT TOTALS	4,822	73	338	347	307	338	357	298	347	334	326	344	322	318	296	4,345

Source: RSP & Associates, LLC - November 2018

 Over School Functional Capacity

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

Note 2: The Enrollment Model is based on a Head count of students by Planning Area at each facility

Note 3: Transfers between Facilities are not factored into the Projections

Note 4: The Enrollment Model assumes ES(PK-5) MS(6-8) and HS (9-12)

Note 5: Each planning area is assigned the 2018/19 boundary (Boundary Change happened for 16/17 school year)

Note 6: School capacity provided by the District

Note 7: Reside is based on the student home address

Note 8: Attend is based on which facility the student attends

Long Range Projections

Grade	School Year																					
	2003/04	2004/05	2005/06	2006/07	2007/08	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	2025/26	2026/27	2027/28	2028/29
PK	0	0	0	29	36	68	53	70	67	78	85	68	73	73	73	73	73	75	84	87	89	92
K	208	229	224	223	241	302	311	292	339	301	299	335	338	344	351	349	365	374	374	389	400	413
1st	194	207	231	227	236	301	310	319	291	351	322	312	347	349	355	362	359	367	375	393	391	408
2nd	188	211	204	234	231	312	299	310	328	287	331	326	307	344	345	349	356	363	356	379	386	379
3rd	174	200	223	222	241	310	314	307	312	326	303	355	338	321	355	356	360	367	359	371	384	382
4th	197	191	204	218	229	312	314	325	314	321	330	293	357	339	321	354	354	360	368	364	371	392
5th	199	207	188	223	223	292	319	315	343	317	319	347	298	363	342	323	358	370	364	375	372	375
6th	186	202	215	197	237	295	297	320	317	334	312	329	347	299	362	342	324	357	374	368	374	371
7th	198	199	208	216	203	278	293	303	306	315	344	326	334	353	304	367	346	327	361	383	372	380
8th	191	214	217	212	226	292	282	299	305	301	319	338	326	334	355	303	365	354	325	358	379	378
9th	185	200	222	219	222	260	298	292	292	308	320	320	344	332	340	359	307	374	358	333	362	371
10th	163	186	204	216	229	274	263	286	294	291	308	323	322	346	333	341	359	308	378	358	334	366
11th	145	169	189	209	214	237	263	255	265	285	291	295	318	318	340	329	335	350	311	367	353	339
12th	167	148	171	172	197	203	236	270	259	271	289	280	296	319	317	339	328	328	375	311	367	382
PK-5	1,160	1,245	1,274	1,376	1,437	1,897	1,920	1,938	1,994	1,981	1,989	2,036	2,058	2,133	2,142	2,166	2,225	2,276	2,280	2,358	2,393	2,441
6-8	575	615	640	625	666	865	872	922	928	950	975	993	1,007	986	1,021	1,012	1,035	1,038	1,060	1,109	1,125	1,129
9-12	660	703	786	816	862	974	1,060	1,103	1,110	1,155	1,208	1,218	1,280	1,315	1,330	1,368	1,329	1,360	1,422	1,369	1,416	1,458
District	2,395	2,563	2,700	2,817	2,965	3,736	3,852	3,963	4,032	4,086	4,172	4,247	4,345	4,434	4,493	4,546	4,589	4,674	4,762	4,836	4,934	5,028
Enrollment Change	2,395	168	137	117	148	69	116	111	69	54	86	75	98	89	59	53	43	85	88	74	98	94

Sources: 2003/04 to 2018/19 Platte County R3 School District

- 2019/20 to 2023/24 RSP & Associates SFM Projections from the 2018/19 Enrollment 5-Year Projections
- 2024/25 to 2028/29 RSP & Associates estimates based on past enrollment change factors

Future Considerations

- ❑ The projections are utilizing the best available information:
 - State, County and City
 - Census
- ❑ The projections are created from a Sophisticated Forecast Model (SFM) that tracks past and emerging trends through the use of a Regression Statistical formula
- ❑ Many things could change over the next Five years impacting how the projections play out:
 - Birth Rates
 - Residential Activity (Number of units constructed)
 - Type of Residential Activity (Single-Family, Duplexes, Apartments)
 - Household Demographics
 - Employment opportunities

Part Four:

Moving Forward

Visualizing Success

Next Steps

The following items will assist the district advance its educational goals;

- ☐ Utilize the enrollment projections to assist with planning for staff need for the following school year
- ☐ District administration and the Board of Education further study the enrollment, demographic, and development information presented
- ☐ Annually review enrollment projections
- ☐ Demographic shifts will happen over the next decade related to housing type, affordable price, and diversity of students
- ☐ Many residential opportunities being discussed – the plats and building permits must be monitored to know how it may impact future student enrollment (Twin Creeks and East of I-29) (Significant Growth Potential)
- ☐ Administration continue to examine facility utilization opportunities to improve the student education experiences
- ☐ Continue to make decisions and communicate that information to the community so they can understand how educational opportunities will support College and Career Ready students

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.