Evanston/Skokie School District 65

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Every Child, Every Day, Whatever it Takes.

Geodemographic Study

Final Report

Charles Kofron, Ph.D. LLC

Geodemographic Studies

Demographic and Housing Trends
Community and Land Use Change
Vital Statistics Processing and Analysis
School Enrollment Projections
Redistricting Scenarios

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Project Overview

The Master Facility Plan (MFP) RFQ required the creation of a plan that included…

1.d. "Detailed analysis of school and community demographics".
1.f. "Addresses current and future facility needs taking into consideration demographic projections over the next five years and ten years".
1.g. "Considers the implications of future boundary changes or redistricting in lieu of investing in current buildings past their useful life will address any of the future needs of the District".

Accordingly, the purpose of this report is twofold; one is support decision making regarding buildings and facility uses. The other is to support the development of redistricting scenarios based on building plans, student and program capacities, and spatial feature considerations.

The detailed analysis of school and community demographics was operationally defined as an analysis of the following:

a) Total population and population change;
b) Total household and family change;
c) Changes projected in population diversity, race, and ethnicity;
d) Changes in the age composition of the population with a focus on preschool and school-ages.

The analysis of current and future facility needs required the development of enrollment projections by grade with a focus on enrollments in grades K through 8 and based on birth and student addresses. These data were geocoded to parcel and address point geography. Other items of interest in the course of this research included the following.

a) Concentrations of students in particular attendance areas and neighborhoods;
b) Magnet school attendance;
c) Births within attendance areas;
d) Resident student racial characteristics by attendance area and grade;
e) Possible impacts of housing change using housing characteristics of resident students.

The consideration of future boundary changes required the collection of student and birth data within current attendance areas for the development of redistricting scenarios based on existing enrollments and building capacities. This required the development of a base map that would support the following.

a) Geocoding student and birth addresses;
b) Summing historical counts of student and birth addresses by current attendance areas;
c) Developing sub areas of attendance areas with counts of student and birth addresses for modifying and generating new attendance boundaries based on planning parameters which included but are not limited to the following:

    1) Consolidating the Willard Island attendance area;
    2) Considering the building of a new school in Ward 5;
    3) Assigning students based on school proximity;

4) Assigning students based on building capacities and programming exigencies.

The development of a database that provides general demographic and housing information and a database that contains birth and student data over time provides the foundation for this geodemographic study and support for the MFP. The district's acquisition of these data and the methods and sources used to create these databases may be updated in the future with data from the district's student information system, the State of Illinois' collection of birth records, Cook County's Assessor records, spatial data from Cook County's Open Data Portal, and Esri's ongoing development of estimates and projections that feature a current estimate and 5-year projection interval.

Data and Methodology

The source of data for the detailed analysis of school and community demographics is Environmental Systems Research Institute's (Esri's) Updated Demographics. The Esri Methodology Statement is provided in the Appendix (Administrative Documents). These data were acquired for decennial census block groups that intersect district boundary lines. In all, there were 67 block groups found to include all or portions of district attendance areas. Map 1 (Appendix, Maps) provides an overlay of district boundaries and census block groups.

As shown in Map 1, there is a close correspondence between block group and district boundaries. Block groups to the western edges of the district include areas outside of the district and not all of the Dawes attendance area is enclosed by block group boundaries. Even though there is not an exact fit, total estimates and projections of demographic and housing variables should provide a close approximation of actual district totals.

However, the same cannot be said for district attendance areas. Map 1 shows attendance areas in heavier red lines with block group boundaries in heavier black lines. District school locations are shown with a green point symbol. With the large amount of attendance area splits by block groups, it is not appropriate to aggregate block group data to attendance areas. Accordingly, the comparison of Esri data will be limited to block group and district geographic levels.

As discussed in the Esri Updated Demographics Data and Methodology Statement, estimates and projections of demographic, socioeconomic, and housing variables have been generated from a number of sources including, inter alia, the American Community Survey, Current Population Survey, Bureau of Economic Analysis, Zonda, RealPage, and Postal Carrier Deliveries databases. Tables 1 through 10 provide Esri breakdowns of estimated (for 2021) and projected (for 2026) population, household, family, diversity, housing, age groups of elementary and middle school populations, and racial composition of block groups intersecting district boundaries. The size of the single year of age and race by sex by age tables are large and not suitable for replicating in this document. Consequently, these tables have been provided in Excel format to the Manager of Student Assignments.

Maps 2 through 7 (Appendix, Maps) provide thematic maps of estimated (from 2010 to 2021) and projected (from 2021 to 2026) annual growth rates of population, households, and families for district block groups. Block groups shaded red indicate estimated and projected declines. Shading in orange and green may be interpreted as very small negative and positive changes, respectively. Lighter and darker blue coloring indicated block group with smaller and larger positive changes, respectively. Legends of these maps indicate data breaks. School locations have been provided for visual reference.

The development of a base map to support geocoding and all general-purpose mapping requirements was necessary for several reasons. First, the district's base map showing attendance areas appears to have been drawn on older Sanborn ™ city block maps without any geographic referencing and drawn to different scales. Other than rubber-sheeting these images, district and attendance area boundaries could not be drawn precisely on the map images and accurately overlayed with a number of other datasets. Second, the base map needed to provide the means of geocoding (or address matching) both student and birth records for the development of an enrollment projection model. Third, the base map needed to reference and provide a visual means of analyzing housing data obtained through the Cook County's Assessor's Office. And fourth, the base map needed to support the development of redistricting scenarios with smaller area geography that is congruent with current attendance area boundaries.

To address these requirements, the base map developed for and used in this study is based on 2021 Cook County parcels, address points, and streets that were obtained from the Cook County Open Data portal. These data provided the accuracy and precision of digitizing district and attendance area boundaries, geocoding student and birth records, overlaying student and birth record geographic data points (X,Y coordinates), associating district geography with these points, and developing sub area geography for redistricting and other planning purposes. These data may be updated as streets, addresses, and attendance area geography change in the future.

With the selection of a stable map base, it was necessary to check district boundaries and digitize current district attendance areas. Map 18 (Appendix, Maps) shows the base and the final boundary lines. These boundaries were verified by district administrative staff and considered final for the next step in defining sub or planning areas for redistricting. To provide an empirical basis for drawing sub areas, district administrative staff were provided maps showing current student enrollment counts by blocks and a kernel density map showing student residential concentrations (Appendix, Maps, Maps 19, 20, and 21). The geocoded student record point cloud is shown in Map 19. These data were associated and tallied by census block. The thematic map (in Map 20) provides counts of students by block with lower block counts represented in blue and higher student counts shown in red. The kernel density map (Map 21) shows statistical residential concentrations of students with brighter areas indicating larger concentrations and darker areas showing lower concentrations. These maps were provided for larger formatted printing (e.g., on E-size or 34" by 48" paper). The detail included addresses and street names which may not be clear in the letter-sized maps provided in the Appendix (Maps).

With these maps and supporting statistical tabulations, district administrative staff began the process of determining sub area boundaries. These boundaries were to be drawn within and congruent to existing attendance boundaries. Also, the boundaries of these smaller areas were to take into account cultural geographic features (such as highways, railroad, water bodies) which would impede access to school buildings. The attendance area maps with parcels and addresses were provided in pdf file format, plotted on larger size paper (E-size), and sent to the district. Iteratively, district administrative staff drew, submitted, and reviewed boundary lines of sub areas which were finalized over several meetings.

Maps 22 through 32 (Appendix, Maps) provide the sub area delineation results by attendance area. In attendance areas, sub area geography is drawn in heavier light grey lines. Each sub area was uniquely numbered in attendance areas which provided the capability of counting and crosstabulating student and birth counts by attendance and sub areas. These sub areas may be thought of as building blocks for modifying or creating new attendance areas based on building capacities and other decisions regarding building futures.

To take into consideration student enrollments currently, over the next 5 years, and the following 5 years for the MFP, it was necessary to develop enrollment projections by existing attendance area geography using student residential locations and the residential locations of birth events over a period of 10 years. Appropriate safeguards for maintaining student confidentiality were implemented (see Appendix, Administrative Documents, Student Data Privacy Agreement). The district provided 95,522 records that spanned the last 10 academic years as of September 30. Student records for 2021 were also included and processed in the dataset received in August, 2021. In all, 90,932 or 95% of the student records were geocoded successfully or address matched to the district's parcel and address point base map. Of the remaining 4,650 unmatched student records, the district was provided 425 unique addresses to manually review. Adding the results of this review to the matched, in-district

student count, resulted in a total of 78,825 student records in grades K-12 from school years 2012-13 through 2021-22.

It must be noted that the 2021-22 student record count was taken from August 2021 enrollment records. Another file of 2021-22 records was provided by the district which was 461 student records lower than the total counts in the August file. Comparing the total student record counts from the two student record data sets and, after consulting with the district on the differences in totals not only for the 2021-22 school year but also the goodness of fit of the 2021-22 student records from the August data set compared to Illinois State Board of Education (ISBE) enrollment totals, it was decided (jointly) to use the first dataset in its entirety (i.e., records obtained in August, 2021).

The student enrollment file provided by the district contained several items of interest for further use in district program planning. These included student race and ethnicity (combined) and attendance assignment. The process of geocoding student addresses and spatially overlaying these data with the district's attendance and sub areas retained these data with residential student locations and attendance and sub area coding. Totals of data on student race appear in Table 30 (Appendix, Tables and Graphs). Due to the size of this table, only counts of records by attendance and sub areas are shown in this report. The original student records with the pivot tables were provided to the district's, Manager of Student Assignments.

Magnet school attendance was also of interest to the MFP principals. Map 45 shows students by residential location attending district magnet schools. From these data, it was determined that over 10% of district students attend magnet schools, though the total numbers of magnet school attendees have been declining. In 2017, 961 students enrolled in magnet schools. The numbers dropped to 908 in 2018, 822 in 2019, 712 in 2020, and 645 in 20201. Maps 46 through 50 (Appendix, Maps) show concentrations of students residing in attendance and sub areas that attend magnet schools. It is of interest to note the consistent concentrations of magnet school students residing in the lower eastern corner of Oakton, eastern areas of Walker, and the southern half of Lincolnwood extending into the Walker Island attendance areas. This is an important finding for existing building capacities and uses. Table 31 (Appendix, Tables and Graphs) provides counts of students attending magnet schools by attendance area of residence and school year. The table also includes sub area assignment; however, due to the size only the totals by attendance area are shown. These data were provided to the district's, Manager of Student Assignments.

To develop enrollment projections for Kindergarten cohorts (or classes) using birth data, the district entered into a data use agreement with the Illinois Department of Public Health (IDPH) (see Appendix, Administrative Documents, IDPH Data Use Agreement) to access live birth event records over a period of 10 years. These records included the birth month, birth year, full address of mother, and zip code of mother's address. Geocoding of these records took place at IDPH offices in Springfield, Illinois. On October 12, 2021, the IDPH provided 28,500 records that were extracted by zip codes provided by the district. With several successive passes over the unmatched record set and with corrections applied to the address data to match records to the district's base map, over 98% of the records were matched successfully, leaving 242 records that required manual review. This review took place on November 22, 2021 at IDPH offices in Chicago, Illinois. The review added 30 birth records to the existing matched count of 28,258 to produce a final record count of 28,288 and a 100% match rate.

Counts of student and birth records by school year and sub area were entered into a cohort enrollment projection model. This model arranged student counts by classes or cohorts by school year and attendance area. Birth counts were added to the model by Kindergarten cohort or class

coding using birth month and birth year to assign year of Kindergarten eligibility. Birth and enrollment totals were calculated by attendance area. Cohort survival ratios were generated from a comparison of previous grade enrollments. Using the last 5 years of enrollments, weighted cohort survival ratios were calculated by grade for each attendance area. These ratios provided the means of generating high, mid, and low enrollment projections by applying these ratios to the last known series of enrollments (i.e., 2021 enrollments) by grade and attendance area. High series enrollment projections use the highest three cohort survival ratios over the last 5 school years to develop a meta-statistic which is applied to the latest enrollments to develop a high series of enrollment projections. Similarly, mid projections use the middle three and low projections use the three lower cohort survival ratios. A fourth series of enrollment projections were generated using cohort survival ratios from the last two years of enrollments. This series provides enrollment projections that may be used to assess the impact of the Covid pandemic on existing and future enrollments and the direction of enrollments if current enrollment trends continue over the next 5 years.

The availability of birth data through calendar 2019 provided the means of developing kindergarten cohort survival projections through September 30 of 2025-26. For school years 2015-16 and 2025-26, births were annualized or projected from 8 and 4 months of actual birth data, respectively. As birth data for 2020 become available (planned for late spring 2022), the birth counts for 2025-26 can be finalized and tentative projections of births for 2026-27 may be generated and added to the district's enrollment projection model.

The MFP stipulated enrollment projections for periods of 5 and 10 years. To extend the projection model, births from the last 10 years were extrapolated to 2031-32. Cohort survival ratios were applied to these births and the cohort enrollment projections in the 2022-2025 projection window. This processing resulted in extrapolated projections by grade and attendance areas for school years 2026-27 through 2031-32.

Tables 15-28 (Appendix, Tables and Graphs) provide the high, mid, low, and snapshot projection series by grade and attendance area for enrollments projected using actual births and empirical cohort survival ratios in school years 2022 through 2025 and extrapolated enrollments using extrapolated births for school years 2026 through 2031. The projected enrollments are shaded in light grey and the extrapolated enrollments are shaded in a darker grey. A roll-up of births and actual and projected enrollments is contained in Table 29 (Appendix, Tables and Graphs). Graphs 6-14 (Appendix, Tables and Graphs) immediately follow Table 29 and show district-wide enrollment projections by grade starting with Kindergarten enrollments through eighth grade. Line graphs were chosen to present these data with the intent of tracing enrollments based on cohorts through the projection intervals. Areas in these graphs are shaded in light grey and a darker grey to indicated projected and extrapolated projections, respectively. Also, enrollments impacted by the Covid pandemic are indicated. Projected and extrapolated enrollments trend lines are shown in blue (high), red (mid), green (low), and purple (snapshot) for the respective projection series.

Following district-wide graphs, projected and extrapolated total enrollments for attendance areas are shown using the same area delineations with light grey indicated projected enrollments and darker grey shading indicating extrapolated projections. In addition, kindergarten enrollments and birth counts are compared for each attendance area. Birth trends and extrapolations are shown with heavier yellow lines. Projected and extrapolated kindergarten enrollments trend lines are shown in blue (high), red (mid), green (low), and purple (snapshot) for the respective projection series.

Maps of demographic and household variables, base maps, geocoding results, and kernel density grids appear in the following map section of the Appendix (Maps). The typical map composition provides

map legend information at the lower left corner, map title centered at the top, and date and source of mapping data at the lower right corner. Where appropriate, the thematic and kernel density maps show district sub area geography on top of colored or black to white statistical shading which may be used to identify areas in the district represented in the theme or locations of concentrations of student and birth events.

An important element of the study is housing characteristics and values in and by attendance areas and among housing units occupied by district students. A hypothesis drawn from the analysis of demographic and housing data from Esri and enrollment projections concerned the availability of affordable housing in the district and continuing trends in the Evanston/Skokie real estate market. To study this issue, the district requested access to Cook County Assessor data which, provided at the parcel level, provide housing characteristics and assessed value. These data were downloaded using the district's account provided by the Assessor's office and joined to a parcel map that extended 5 miles from the center of the district. It was determined that parcels in the norther part of the district and south of the district in the Rogers Park area were missing Assessor records (see Appendix, Maps, Maps 51-53). It appears that these data have not been posted for tax year 2020 as of the date of this report. Attempts were made to contact the Assessor's Office and the Township Assessor without success. As these data are found, an addendum will be provided to this report.

Administrative documents are provided in the last section of the Appendix. These include the original letter of engagement, student confidentiality, and data user agreements.

Findings

A number of observations follow from a review of the Esri Updated Demographic tables for 2021 and 2026.

Over the next 5 years or from 2021 through 2026 with July 1 as the effective date…

- Projected population is expected to remain steady over the 5-year interval. A comparison of estimated and projected population totals put the percentage change at -.5%.
- Projected population in households and families is expected to decline slightly (-.6% and 1.0%, respectively).
- Population diversity in the district ranges from highly unlikely (low diversity) to highly likely (high diversity) of 2 individuals at large and within the same block group encountering a person of different race or ethnicity.
- Both households and families are expected to stay at about the same levels or decline slightly.
- Projected average household size is expected to stay the same with average family size declining slightly.
- It is not expected that the number of housing units will change substantially.
- There will be a minor flip of renter-occupied to owner-occupied units.
- The data indicate larger variations in percentage changes of vacant units among district block groups; overall, the district vacancy rate will remain at roughly 9%.
-

The single year of age tables provides the data granularity to approximate total numbers of persons that may attend various grades in the district. For comparison purposes, persons by year have been combined to reflect estimated and projected totals of persons under 1 year, 1-2 years, 3-5 years (preschool ages), 6-11 years (elementary K-5 school ages), and 12-14 years (middle school ages).

Using the same timeframe comparison…

- The total population under 15 years is expected to decline by about 5%.
- The larger percentage decline will take place in the middle school-aged population (-11%).
- Elementary grade population will decline by 6%.
- It is expected that the population under 1 year will increase by about 2%.
- Larger increases are observed in the 25-29, 40-44, and 65 and over age categories.
- Larger declines are seen in the 10-14, 30-34, and 55-59 age groups.

Consistent with Esri's diversity indices, the racial characteristics and composition of the district's population is expected to increase with more persons of other than white or black racial identification.

Again, using the same timeframe comparison…

- The white population is projected to decline by about 3%.
- The black population will increase significantly, from an estimated 7,291 persons in 2021 to 12,383 persons in 2026 (representing a change of about 70%).
- The other population is prominent in the district but is expected to decline by 16%.
- Although declining, the white population is the dominant racial group with estimated and projected percentages of the population above 60%.
- The black composition of the population will increase from 8.3% to 14.2%.
- The other than white and black population composition will decline from 28.8% of the total population to 24.3%.

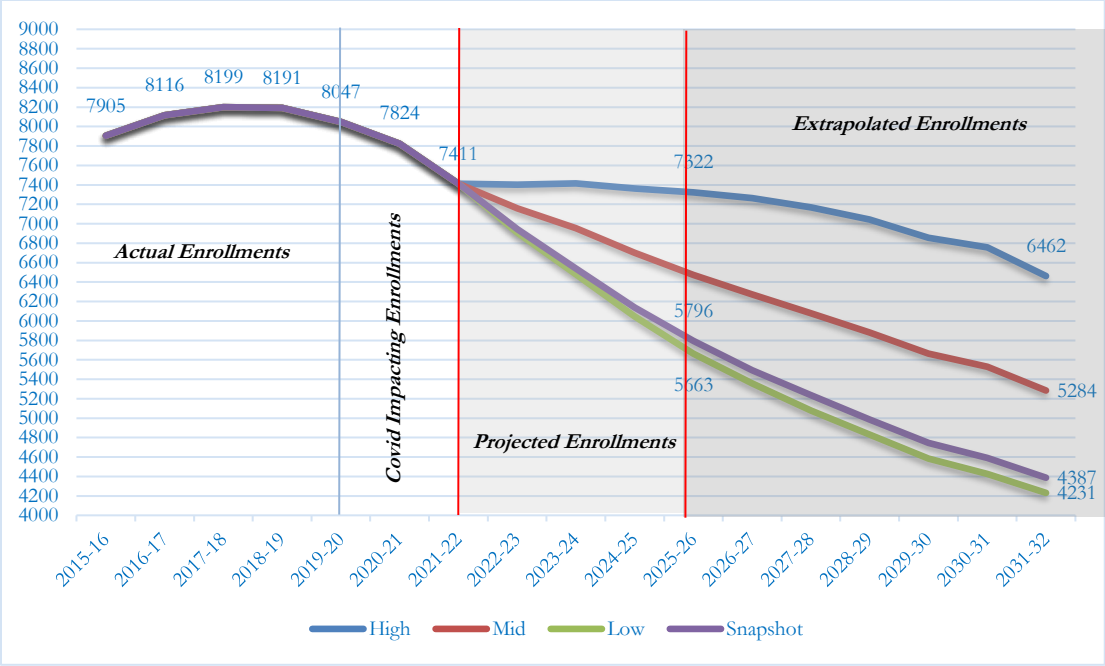
Based on the age and race tables, it appears that the district's population is aging or in a phase of incipient decline. The larger decline in the population under 20 years and the increase in the population 65 years and older are definite signs of population aging. It's interesting to note the projected declines in the 45-49-, 50-54-, 55-59-, and 60–64-year age groups which may be due to socioeconomic and housing factors. Also, it is noteworthy that the 30-34- and 35-39-year age groups are projected to decline which could explain the projected decline in the population under 10 years of age.

Tables 1 through 12 (Appendix, Tables and Graphs) contain the Esri tables of population and housing, age, and race statistics. Percentage changes for variables included in these tables appear by block group in following tables. Maps 2 through 7 (Appendix, Maps) show estimated and projected annual growth rates of total population, households, and families by block group. Maps 8 and 9 (Appendix, Maps) show estimated and projected diversity with Maps 10 through 15 showing estimated and projected race breakdowns using white, black, and other race categories. These maps use the same category percentage breakdowns of the white, block and other population to highlight projected changed in race composition across the district. Comparisons of Maps 11 and 14 (Appendix, Maps) showing black population concentrations and Maps 12 and 15 showing other population concentrations highlight the increasing diversity projected in the district .

Maps 16 and 17 (Appendix, Maps) show comparatively large gains projected in median household and per capita income with only a few block groups in the district expected to decline in median household income. Three of these block groups are in the central corridor and adjacent to Northwestern University. The one block group showing larger decline in household income appears (colored red) in the Oakton attendance area.

The development of enrollment projections using geocoded birth and student records portends a decline in K-8 enrollments through 2025-26 and further out to 2031-32. Graph 1 below shows enrollment trends between the 2015-16 and 2031-32 school years.

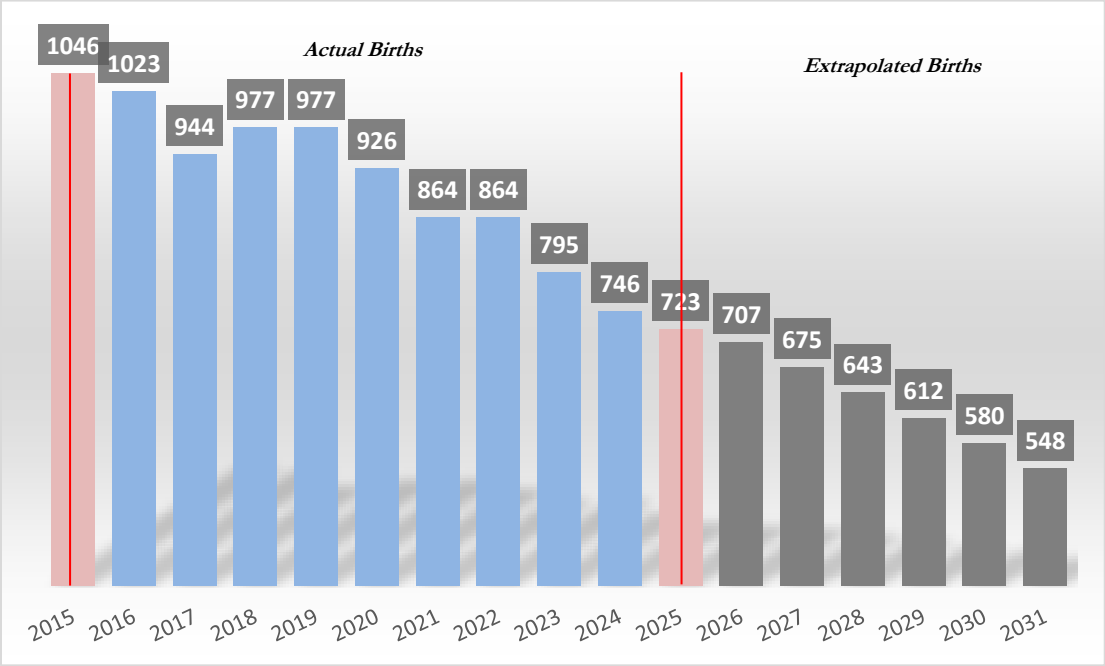
Graph 1: Total K-8 School District Enrollments and Projections



- K-8 enrollments hit a 10-year high in 2017-18.
- Between 2017 and 2021, enrollments declined by 788 students or roughly 10%.
- Covid impacts on enrollments indicate a decline of 636 students between 2019 and 2021.
- Students leaving the district during the Covid impact interval didn't return in 2021.
- If these students return, the high projection series may be the more likely projections.
- All projection series are forecasting lower enrollments in both 2025-26 and 2031-32.

Graph 2 below shows actual and extrapolated births used to project kindergarten enrollments by kindergarten cohort year. These data are district-wide totals and include only birth records occurring with district boundaries. The red bars indicate annualized birth totals based on portions of calendar year totals adjusted for an entire year of births. The blue bars indicate actual data totals. The darker grey bars indicate extrapolated births.

Graph 2: Actual and Extrapolated District Birth Trends

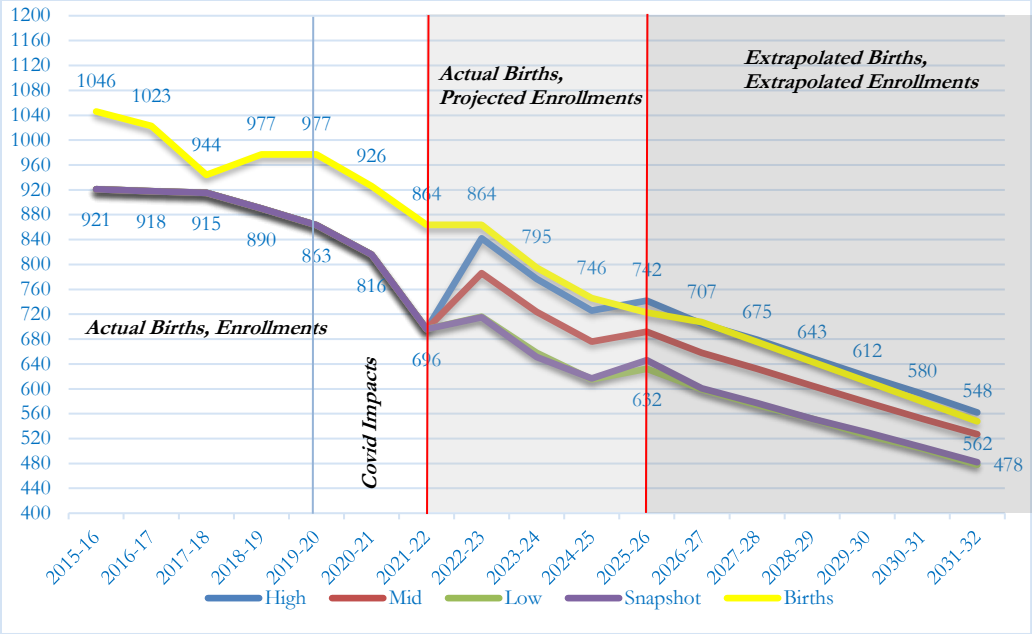


- District births have fallen steadily since 2010 which represents the 2015 kindergarten cohort.
- Births were off by 25% between the 2019 and 2025 kindergarten cohort years.
- Extrapolated birth trends place the number of births for the 2031 kindergarten cohort at 548.
- If births do not decline at the current rate, then kindergarten enrollments will be higher than projected.

Graph 3 below shows the relationship between births and kindergarten enrollments historically and in the two projection windows. As in the previous graph, births are counted by academic year and adjusted for school years of kindergarten eligibility. The yellow line shows the data points for the birth series between the 2015-16 and 2025-26 school years and the actual trend in district births. The extension of the yellow line beyond 2025-26 shows the results of extrapolating actual births out to 2031-32.

The position of the lines in this and other graphs showing kindergarten cohort births and actual and projected kindergarten enrollments is important. The birth trendline above kindergarten enrollments indicates an historical trend of birth cohorts larger than actual kindergarten enrollments. In Table 14 (Appendix, Tables and Graphs), the historical birth to kindergarten cohort survival ratios range from .81 to .92 or roughly 81% to 92% of the numbers of children eligible to attend kindergarten actually attend based on births alone. A similar trend appears in Graphs 18 (Dewey), 22 (Lincoln), and 26 (Oakton) (Appendix, Tables and Graphs). Where kindergarten enrollments are above the birth trendline, the difference may be explained by households moving in with preschool-age children. This pattern appears in Graphs 24 (Lincolnwood), 28 (Orrington), 32 (Washington), and 36 (Willard Island) (Appendix, Tables and Graphs).

Graph 3: Births and Kindergarten District Enrollments and Projections



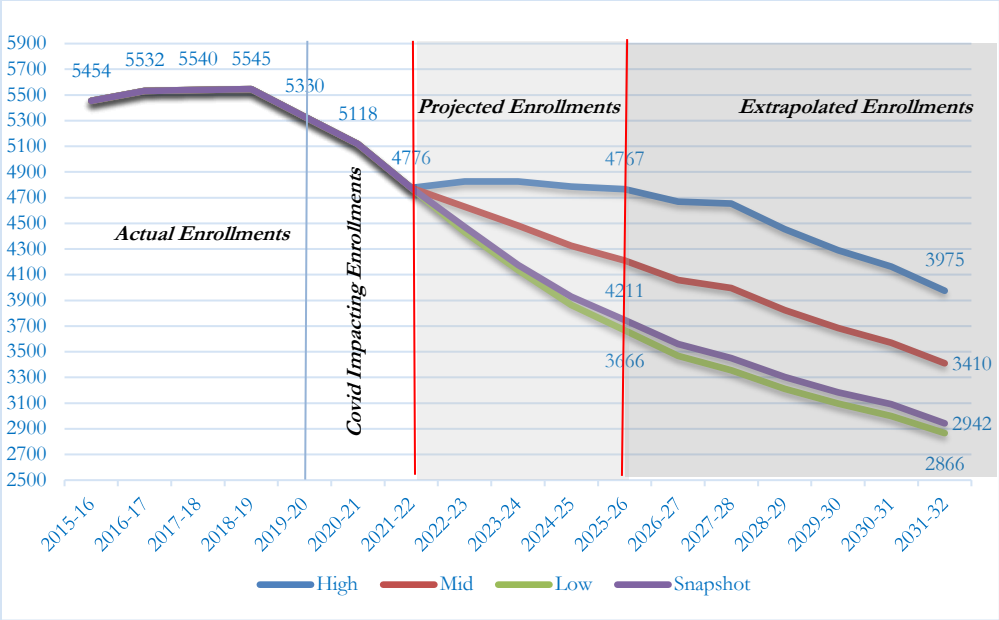
- The birth trend line for the district appears above actual kindergarten enrollments indicating less than a 100% capture rate of births to kindergarten enrollments.
- CSRs below 1.000 (in Table 14, B-K) indicate a high capture rate of cohort-adjusted births attending district kindergarten programs.
- It is significant that succeeding class sizes with CSRs below 1.000 between K-1 (grade) indicate even smaller class sizes in first grade. Typically, it would be expected to see CSRs in the K-1 category to be above 1.000.
- Births and kindergarten enrollments during the Covid impact years show a greater decline in kindergarten enrollments compared to births which may later impact enrollments in the elementary grades.
- The high projection series projects kindergarten enrollments at the same levels of extrapolated births through 2031-32.
- The mid projection series appears to continue the trend line from 2020-21 through 2025-26 and projects the difference between births and kindergarten enrollments narrowing where kindergarten class sizes are almost entirely explained by district births.

Table 13 (Appendix, Tables and Graphs) provide total birth counts and counts by attendance area for the 2015 through 2025 school years. Birth data counts are included in Tables 15 through 25

(Appendix, Tables and Graphs) which provide enrollments based on actual births, actual enrollments, and projections resulting from extrapolated births. Maps 34 through 44 (Appendix, Maps) show the concentrations of births in the district with attendance and sub area overlays. Its noteworthy that the Lincoln, lower southeast corner of Oakton, Dewey, and the Willard Island attendance areas appear higher in birth concentrations in more kindergarten cohort years over the 10-year period.

Graph 4 shows the enrollment projection trend lines of K-5 district enrollments.

Graph 4: Total K-5 Resident District Enrollments and Projections



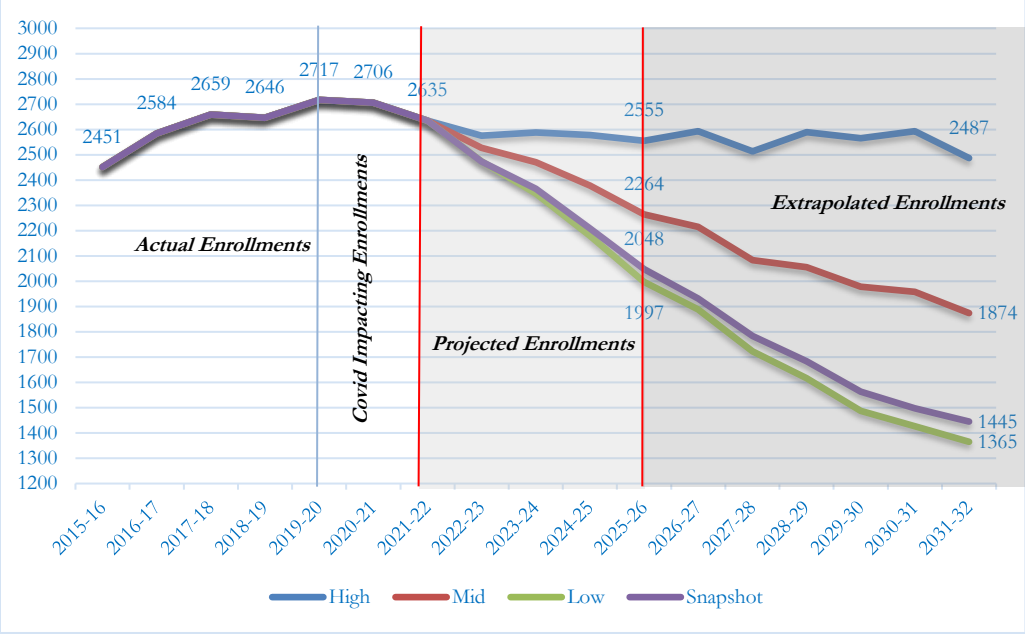
- K-5 district enrollments climbed to a high of 5,540 students in the 2017-18 school year.
- Since 2018-19, K-5 enrollments declined with a sharper rate of decline occurring during the Covid impact years (with enrollments off by more than 10%).
- The mid projection series extends the rate of decline to 4,211 students in 2025-26 (or more than 12%) and 3,410 students in 2031-32.

There are several tables in the Appendix which support this graph. Table 9 (Appendix, Table and Graphs) displays Esri age estimates and projections for categories collapsed into pre-school and Kindergarten through 5th grade (ages 6 through 11). Projected percentages by age group appear in Table 10 (Appendix, Tables and Graphs) and a projected percentage change of more than 6% for persons in the 6 through 11 year age grouping between 2021 and 2026. Tables 15 through 25 (Appendix, Tables and Graphs) provide separate total breakdowns for kindergarten and roll-ups for elementary school enrollments.

Graph 5 (next page) shows trends in district middle school enrollments and the four projection series. Actual enrollments have increased over the first 5 years of the series. Since 2020-21 and the midpoint of the Covid impact timeframe, middle school enrollments began to decline. Three of the four projection series are forecasting continuing declines in middle school enrollments. The mid projection series is expected declines of more than 14% between 2021-22 and 2025-26. This rate of decline is above the projected decline in age-specific data provided by Esri where the decline in the numbers of middle-school ages is a little more than 11%. The snapshot projection series show the impact of the Covid-period enrollments on middle-school projections. The high projection series

takes out much of the expected decline due to Covid impacts in middle school enrollments and projects little change in total enrollments between 2022-23 and 2031-32.

Graph 5: Total 6-8 Resident District Enrollments and Projections



- Middle school enrollments gradually climbed from 2015-16 to 2019-20 to reach a total of 2,717 students in 2019-20.
- The percentage increase between 2015-16 and 2019-20 was 11% with annual percentage growth of between 3% and 5% (with the exception of a slight decline in students between 2017-18 and 2018-19).
- The high projection series is expecting enrollments to remain steady through 2030-31 before declining in 2031-32.
- The mid projection series is forecasting enrollments to decline by 371 students or by 14% between 2021-22 and 2025-26.
- Both the low and snapshot projection series are expecting sharper declines in middle school students by 2025-26 and 2031-32.

Tables 9 and 10 (Appendix, Tables and Graphs) provide age specific comparisons from Esri tables and support the depiction of middle-school enrollment projections in Graph 5. Tables 15 through 25 (Appendix, Tables and Graphs) provide grade-specific actual and projected enrollments for grades 6 through 8 and middle school roll-ups of totals by attendance areas. Tables 26 through 28 (Appendix, Tables and Graphs) provide attendance area resident enrollments and projections for the three middle school areas. Graphs 12 through 14 (Appendix, Tables and Graphs) show grade-specific enrollment, projected enrollments, and extrapolated enrollments for grade 6-8.

Summary

To support the MFP, data from an independent vendor (Esri) was acquired, presented, and analyzed with a focus on population, housing, age composition, and race identification of characteristics estimated for 2021 and projected 2026. These data support the observation that the district is aging with the implication that there will be smaller class sizes in the near future.

A base map was created, verified, and used to identify the locations of changes in the district in demographic and housing variables from Esri, to geocode student and birth records for enrollment projections, and to illustrate the use of race and magnet school enrollments from the district's student information system that is associated with student residence through the geocoding process. All student records from an extract of student records at the end of August 2021 was used to develop student projections with geocoded live birth records and tabulated by residence of the mother. The unmatched results of the geocoding of student and birth records were manually reviewed. Records found within the district were added to grade and cohort or class totals.

The take-aways from the Esri data tabulated by block groups intersecting district boundaries include the following.

- The district population appears to be aging with losses projected for persons of elementary and middle school age, in the household and family formation ages of 30-39, and increases in the 65 year and over age groups.
- Total population and housing will not change by significant margins over the next 5 years. Increases in the 20-29, 40-44, and 65 and over age group will hold population totals at or above the current levels.
- Renter-occupied housing in the district will decline with owner-occupied housing rates up slightly between 2021 and 2026.
- Median and per capita household income is expected to increase significantly across the district.
- Diversity in the district will continue to increase with larger proportional increases in the black population.
- Racial concentration of the black population will continue to exist in the central corridor of the district and in the southern block groups of the Oakton attendance area; although block groups east and west of these block groups will experience an increase in black proportional representation.
- The black population will increase by double-digit margins, although the black population will remain under 25% of the total district population.
- Other racial group identification will continue to expand through the district, although other racial identification will decline district-wide.

Projected enrollment for the district is showing decreasing enrollments between 2021 and 2025 which is consistent with the Esri age estimates and projections. Births, student enrollments, and projections are pointing to the following changes.

- Births counts declined by more than 30% over the last decade
- Kindergarten enrollments declined by about 26% between 2015 through 2021.

- Elementary enrollments will probably continue to decline due to the impact of larger enrollment declines during the Covid years.
- Elementary enrollments are projected to bounce back to 2020 enrollment levels in 2022 in the high and mid projection scenarios. Both of these enrollment projection series take out the sharper decline in enrollments between 2020 and 2021 or the Covid enrollment impact school years.
- Probable declines in extrapolated elementary enrollments are expected beyond 2025-26
- Probable middle school declining enrollments are expected, beginning with the 2022-23 school year and extending through the extrapolated enrollment projection interval.
- Declining student enrollments are supported by the Esri age-specific estimates and projections for the elementary and middle school-aged population in district block groups between 2021 and 2026 with the caveat that Esri age-projections are expecting sharper declines in the middle-school aged population.

Better Planning Practices and Recommendations

The data assembled to support the MFP represent a snapshot in time of district demographic, housing, socioeconomic, and enrollment trends. This snapshot has been impacted significantly (statistically) by the Covid pandemic, particularly during the school years 2018 through 2021. A recovery from the Covid pandemic may change the direction of age-group population trends, housing turnover, and household in-migration among householders (particularly, in the 30-39 age group). This may change the direction of births in the district and the size of kindergarten classes or cohorts in the future.

Accordingly, the following is suggested in an ongoing assessment of district population, housing, and enrollment trends.

- The district investment in demographic and housing data should be maintained with periodic updates. The availability of Esri estimates for 2022 and projections for 2027 should be acquired to update the general demographic trends noted in the study. These data will include the results of the last decennial census (in 2020) and may reflect a further update in demographic and housing trends.
- The district should maintain the birth data series with geocoding of birth records for 2020 which will be available in the late spring or early summer of 2022. These data may be used to finalize the kindergarten cohort or class totals for 2025 and provide a tentative projection of the birth cohort for 2026 kindergarten enrollments in the district's projection model.
- The district should update the actual enrollments for the 2022 school year. These data may change the trajectory of enrollments in the 4 projection series.
- With the district's subscription to Cook County Assessor data, the data set for the district may be completed in the near future which will add to the data provided by Esri. These data should be used to identify key demographic and housing trends in student housing characteristics.

Appendix

Tables and Graphs

Table 1: Estimated and Projected Population Totals

Block Group	Estimated Total Population	Estimated Population in Households	Estimated Population in Families	Estimated Population in Group Quarters	Estimated Population Density	Estimated Population Diversity	Projected Total Population	Projected Population in Households	Projected Population in Families	Projected Population in Group Quarters	Projected Population Density	Projected Diversity
8067001	1286	1286	1039	0	6718.9	50	1242	1242	1003	0	6489	52
8067002	1054	1054	988	0	4861.6	25.8	1006	1006	943	0	4640.2	27.4
8067003	993	993	908	0	6385.9	53	968	968	885	0	6225.1	55.6
8071002	1517	1517	1334	0	6161.7	71.7	1502	1502	1321	0	6100.7	73.4
8071003	1475	1475	1345	0	6716.8	47.3	1451	1451	1323	0	6607.5	49.9
8072002	2132	2132	1938	0	9870.4	76.1	2096	2096	1905	0	9703.7	76
8072003	955	947	869	8	8793.7	65.9	925	917	842	8	8517.5	67.3
8072004	878	872	778	6	8092.2	69.5	870	864	771	6	8018.4	70.9
8072005	790	790	722	0	7254.4	56.3	761	761	696	0	6988.1	58.5
8087021	2930	777	340	2153	34633.6	56.4	2916	763	334	2153	34468.1	58.9
8087022	2848	159	81	2689	10226.2	64.5	2846	157	80	2689	10219	65.4
8088001	1910	1908	1486	2	6420.2	36.9	1924	1922	1497	2	6467.2	39.8
8088002	2140	1669	1346	471	4770.4	36.6	2101	1630	1315	471	4683.5	39.6
8089001	1313	1313	1014	0	8135.1	31.1	1283	1283	991	0	7949.2	33.5
8089002	714	714	617	0	7468.6	30.7	700	700	605	0	7322.2	32.9
8089003	1886	1823	1534	63	6358.7	26.5	1840	1777	1495	63	6203.6	28.8
8090001	671	671	578	0	6520.9	18.6	662	662	571	0	6433.4	20.4
8090002	784	784	740	0	5568.2	20	755	755	713	0	5362.2	21.8
8090003	1458	1258	912	200	7503.9	19.1	1449	1249	907	200	7457.5	20.9
8090004	999	999	871	0	8155.1	33.2	995	995	868	0	8122.4	35.7
8091001	1218	1218	892	0	8348.2	25.6	1214	1214	889	0	8320.8	27.7
8091002	883	883	812	0	5130.7	26.7	870	870	800	0	5055.2	28
8091003	1202	1172	870	30	7280.4	29.2	1163	1133	841	30	7044.2	31.4
8092001	971	971	832	0	9898.1	78	937	937	803	0	9551.5	80.6
8092002	1344	1344	981	0	8421.1	71.9	1334	1334	974	0	8358.4	74.8

Block Group	Estimated Total Population	Estimated Population in Households	Estimated Population in Families	Estimated Population in Group Quarters	Estimated Population Density	Estimated Population Diversity	Projected Total Population	Projected Population in Households	Projected Population in Families	Projected Population in Group Quarters	Projected Population Density	Projected Diversity
8092003	1371	1359	1217	12	16822.1	79.9	1377	1365	1222	12	16895.7	82.6
8092004	975	975	814	0	8024.7	68.8	964	964	805	0	7934.2	72.2
8093001	836	835	506	1	5225	42.2	800	799	486	1	5000	44.9
8093002	2438	2393	647	45	30136	58.4	2508	2463	670	45	31001.2	60.6
8093003	2136	1878	839	258	14052.6	61.3	2230	1972	886	258	14671.1	63.2
8094001	997	992	644	5	5517.4	29.1	1005	1000	651	5	5561.7	31.1
8094002	1655	1489	538	166	21272.5	55.3	1828	1662	603	166	23496.1	57.7
8094003	2493	2093	928	400	25595.5	62.7	2577	2177	969	400	26457.9	63.5
8094004	1581	1581	388	0	46500	56.5	1618	1618	399	0	47588.2	58.6
8095001	1783	1783	927	0	15437.2	54.8	1847	1847	962	0	15991.3	57
8095002	1526	1490	562	36	20538.4	49.9	1552	1516	573	36	20888.3	52.4
8095003	870	818	516	52	10481.9	45.6	855	803	507	52	10301.2	48.3
8096001	792	792	685	0	6683.5	46.7	775	775	670	0	6540.1	48.6
8096002	1379	1379	1097	0	12412.2	82.8	1379	1379	1097	0	12412.2	84.3
8096003	1311	1311	1126	0	4812.8	75.7	1321	1321	1135	0	4849.5	78.8
8097001	1246	1246	1027	0	7891.1	60.1	1237	1237	1020	0	7834.1	62
8097002	1559	1559	1337	0	7092.8	87.4	1526	1526	1309	0	6942.7	88.3
8097003	766	766	690	0	5755.1	72	750	750	676	0	5634.9	75.3
8098001	932	932	627	0	11242.5	39.8	915	915	616	0	11037.4	42.5
8098002	1629	1234	852	395	11014.2	52.3	1584	1189	821	395	10709.9	54.2
8099001	2702	2646	1844	56	9140.7	39.3	2637	2581	1799	56	8920.8	42
8100001	1819	1819	983	0	36821.9	47.3	1825	1825	986	0	36943.3	50.2
8100002	2072	2072	1363	0	17338.9	46.9	2119	2119	1393	0	17732.2	49.5
8100003	1454	1442	896	12	5611.7	42.2	1433	1421	883	12	5530.7	44.7
8101001	499	499	275	0	15030.1	68.5	485	485	267	0	14608.4	70.4
8101002	1123	1108	761	15	22550.2	68.4	1107	1092	750	15	22228.9	70.1
8101003	821	821	616	0	12420.6	69.5	801	801	601	0	12118	71.6
8101004	603	603	448	0	9466.2	53.8	598	598	444	0	9387.8	56
8101005	1116	1070	691	46	16756.8	57.4	1112	1066	688	46	16696.7	59.4
8102001	928	928	711	0	21581.4	75.9	909	909	697	0	21139.5	78.4

Block Group	Estimated Total Population	Estimated Population in Households	Estimated Population in Families	Estimated Population in Group Quarters	Estimated Population Density	Estimated Population Diversity	Projected Total Population	Projected Population in Households	Projected Population in Families	Projected Population in Group Quarters	Projected Population Density	Projected Diversity
8102002	1159	1159	765	0	22636.7	83.8	1172	1172	774	0	22890.6	85.3
8102003	829	829	617	0	19975.9	75.6	805	805	599	0	19397.6	78.1
8102004	1333	1333	933	0	17632.3	75.5	1316	1316	922	0	17407.4	77.2
8102005	680	680	501	0	12186.4	62.9	677	677	499	0	12132.6	65.1
8102006	841	841	686	0	11349.5	76.3	831	831	678	0	11214.6	78
8103011	708	708	575	0	3599.4	80.2	703	703	571	0	3574	81.7
8103012	878	878	765	0	3378.2	84.5	855	855	745	0	3289.7	85.8
8103013	1246	1143	971	103	10444.3	79.8	1216	1113	946	103	10192.8	81.2
8103014	1036	1036	783	0	11397.1	75.3	1022	1022	773	0	11243.1	76.8
8103021	1311	1311	1032	0	12426.5	69.4	1289	1289	1015	0	12218	71
8103022	1007	1007	871	0	10945.7	66.8	983	983	850	0	10684.8	68.4
8103023	795	716	623	79	7614.9	71.6	777	698	607	79	7442.5	73.2
Total	87586	80283	57504	7303			87130	79827	56936	7303		

Table 2: Estimated and Projected Percentages Changes in Population

Block Group	% Change Total Population	% Change Population In Households	% Change Population in Families	% Change in Diversity
8067001	-3.4%	-3.4%	-3.5%	4.0%
8067002	-4.6%	-4.6%	-4.6%	6.2%
8067003	-2.5%	-2.5%	-2.5%	4.9%
8071002	-1.0%	-1.0%	-1.0%	2.4%
8071003	-1.6%	-1.6%	-1.6%	5.5%
8072002	-1.7%	-1.7%	-1.7%	-0.1%
8072003	-3.1%	-3.2%	-3.1%	2.1%
8072004	-0.9%	-0.9%	-0.9%	2.0%
8072005	-3.7%	-3.7%	-3.6%	3.9%
8087021	-0.5%	-1.8%	-1.8%	4.4%
8087022	-0.1%	-1.3%	-1.2%	1.4%
8088001	0.7%	0.7%	0.7%	7.9%
8088002	-1.8%	-2.3%	-2.3%	8.2%
8089001	-2.3%	-2.3%	-2.3%	7.7%
8089002	-2.0%	-2.0%	-1.9%	7.2%
8089003	-2.4%	-2.5%	-2.5%	8.7%
8090001	-1.3%	-1.3%	-1.2%	9.7%
8090002	-3.7%	-3.7%	-3.6%	9.0%
8090003	-0.6%	-0.7%	-0.5%	9.4%
8090004	-0.4%	-0.4%	-0.3%	7.5%
8091001	-0.3%	-0.3%	-0.3%	8.2%
8091002	-1.5%	-1.5%	-1.5%	4.9%
8091003	-3.2%	-3.3%	-3.3%	7.5%
8092001	-3.5%	-3.5%	-3.5%	3.3%
8092002	-0.7%	-0.7%	-0.7%	4.0%
8092003	0.4%	0.4%	0.4%	3.4%

Block Group	% Change Total Population	% Change Population In Households	% Change Population in Families	% Change in Diversity
8092004	-1.1%	-1.1%	-1.1%	4.9%
8093001	-4.3%	-4.3%	-4.0%	6.4%
8093002	2.9%	2.9%	3.6%	3.8%
8093003	4.4%	5.0%	5.6%	3.1%
8094001	0.8%	0.8%	1.1%	6.9%
8094002	10.5%	11.6%	12.1%	4.3%
8094003	3.4%	4.0%	4.4%	1.3%
8094004	2.3%	2.3%	2.8%	3.7%
8095001	3.6%	3.6%	3.8%	4.0%
8095002	1.7%	1.7%	2.0%	5.0%
8095003	-1.7%	-1.8%	-1.7%	5.9%
8096001	-2.1%	-2.1%	-2.2%	4.1%
8096002	0.0%	0.0%	0.0%	1.8%
8096003	0.8%	0.8%	0.8%	4.1%
8097001	-0.7%	-0.7%	-0.7%	3.2%
8097002	-2.1%	-2.1%	-2.1%	1.0%
8097003	-2.1%	-2.1%	-2.0%	4.6%
8098001	-1.8%	-1.8%	-1.8%	6.8%
8098002	-2.8%	-3.6%	-3.6%	3.6%
8099001	-2.4%	-2.5%	-2.4%	6.9%
8100001	0.3%	0.3%	0.3%	6.1%
8100002	2.3%	2.3%	2.2%	5.5%
8100003	-1.4%	-1.5%	-1.5%	5.9%
8101001	-2.8%	-2.8%	-2.9%	2.8%
8101002	-1.4%	-1.4%	-1.4%	2.5%
8101003	-2.4%	-2.4%	-2.4%	3.0%
8101004	-0.8%	-0.8%	-0.9%	4.1%
8101005	-0.4%	-0.4%	-0.4%	3.5%
8102001	-2.0%	-2.0%	-2.0%	3.3%
8102002	1.1%	1.1%	1.2%	1.8%

Block Group	% Change Total Population	% Change Population In Households	% Change Population in Families	% Change in Diversity
8102003	-2.9%	-2.9%	-2.9%	3.3%
8102004	-1.3%	-1.3%	-1.2%	2.3%
8102005	-0.4%	-0.4%	-0.4%	3.5%
8102006	-1.2%	-1.2%	-1.2%	2.2%
8103011	-0.7%	-0.7%	-0.7%	1.9%
8103012	-2.6%	-2.6%	-2.6%	1.5%
8103013	-2.4%	-2.6%	-2.6%	1.8%
8103014	-1.4%	-1.4%	-1.3%	2.0%
8103021	-1.7%	-1.7%	-1.6%	2.3%
8103022	-2.4%	-2.4%	-2.4%	2.4%
8103023	-2.3%	-2.5%	-2.6%	2.2%
Totals	-0.5%	-0.6%	-1.0%	

Table 3: Estimated and Projected Household Totals

Block Group	Estimated Total Households	Estimated Average Household Size	Estimated Families	Estimated Average Family Size	Projected Total Households	Projected Average Household Size	Projected Family Households	Projected Family Household Size
8067001	559	2.30	350	2.97	540	2.30	338	2.97
8067002	346	3.05	298	3.32	330	3.05	284	3.32
8067003	341	2.91	275	3.30	333	2.91	268	3.30
8071002	533	2.85	412	3.24	528	2.84	408	3.24
8071003	517	2.85	419	3.21	511	2.84	414	3.20
8072002	681	3.13	552	3.51	670	3.13	543	3.51
8072003	317	2.99	267	3.25	307	2.99	258	3.26
8072004	309	2.82	232	3.35	307	2.81	230	3.35
8072005	275	2.87	222	3.25	266	2.86	215	3.24
8087021	387	2.01	130	2.62	379	2.01	127	2.63
8087022	63	2.52	22	3.68	62	2.53	22	3.64
8088001	825	2.31	495	3.00	833	2.31	499	3.00
8088002	701	2.38	454	2.96	686	2.38	444	2.96
8089001	615	2.13	352	2.88	603	2.13	345	2.87
8089002	277	2.58	197	3.13	271	2.58	193	3.13
8089003	754	2.42	505	3.04	734	2.42	491	3.04
8090001	263	2.55	191	3.03	260	2.55	189	3.02
8090002	264	2.97	234	3.16	255	2.96	226	3.15
8090003	656	1.92	322	2.83	652	1.92	320	2.83
8090004	379	2.64	271	3.21	377	2.64	270	3.21
8091001	594	2.05	315	2.83	593	2.05	314	2.83
8091002	305	2.90	252	3.22	300	2.90	248	3.23
8091003	561	2.09	285	3.05	543	2.09	275	3.06
8092001	289	3.36	216	3.85	279	3.36	208	3.86
8092002	531	2.53	285	3.44	529	2.52	283	3.44
8092003	363	3.74	299	4.07	365	3.74	300	4.07
8092004	302	3.23	206	3.95	298	3.23	203	3.97

Block Group	Estimated Total Households	Estimated Average Household Size	Estimated Families	Estimated Average Family Size	Projected Total Households	Projected Average Household Size	Projected Family Households	Projected Family Household Size
8093001	382	2.19	172	2.94	364	2.20	164	2.96
8093002	1056	2.27	234	2.76	1085	2.27	242	2.77
8093003	889	2.11	277	3.03	933	2.11	292	3.03
8094001	492	2.02	226	2.85	494	2.02	227	2.87
8094002	1021	1.46	231	2.33	1138	1.46	258	2.34
8094003	1187	1.76	388	2.39	1234	1.76	404	2.40
8094004	938	1.69	158	2.46	954	1.70	161	2.48
8095001	897	1.99	335	2.77	931	1.98	348	2.76
8095002	1038	1.44	233	2.41	1056	1.44	237	2.42
8095003	409	2.00	194	2.66	402	2.00	191	2.65
8096001	280	2.83	214	3.20	274	2.83	209	3.21
8096002	497	2.77	309	3.55	496	2.78	308	3.56
8096003	401	3.27	298	3.78	403	3.28	299	3.80
8097001	487	2.56	327	3.14	484	2.56	325	3.14
8097002	525	2.97	376	3.56	515	2.96	369	3.55
8097003	237	3.23	184	3.75	233	3.22	181	3.73
8098001	455	2.05	221	2.84	447	2.05	217	2.84
8098002	584	2.11	285	2.99	565	2.10	275	2.99
8099001	1303	2.03	646	2.85	1275	2.02	631	2.85
8100001	1108	1.64	394	2.49	1112	1.64	394	2.50
8100002	1010	2.05	488	2.79	1031	2.06	497	2.80
8100003	747	1.93	328	2.73	735	1.93	322	2.74
8101001	282	1.77	104	2.64	275	1.76	101	2.64
8101002	526	2.11	266	2.86	519	2.10	262	2.86
8101003	374	2.20	212	2.91	365	2.19	207	2.90
8101004	280	2.15	157	2.85	279	2.14	156	2.85
8101005	550	1.95	247	2.80	547	1.95	245	2.81
8102001	396	2.34	235	3.03	390	2.33	231	3.02
8102002	525	2.21	239	3.20	532	2.20	242	3.20
8102003	344	2.41	199	3.10	335	2.40	194	3.09

Block Group	Estimated Total Households	Estimated Average Household Size	Estimated Families	Estimated Average Family Size	Projected Total Households	Projected Average Household Size	Projected Family Households	Projected Family Household Size
8102004	640	2.08	335	2.79	635	2.07	332	2.78
8102005	308	2.21	175	2.86	306	2.21	174	2.87
8102006	350	2.40	218	3.15	347	2.39	216	3.14
8103011	286	2.48	183	3.14	284	2.48	182	3.14
8103012	298	2.95	216	3.54	289	2.96	209	3.56
8103013	392	2.92	277	3.51	381	2.92	269	3.52
8103014	453	2.29	251	3.12	446	2.29	247	3.13
8103021	537	2.44	335	3.08	530	2.43	330	3.08
8103022	382	2.64	272	3.20	373	2.64	265	3.21
8103023	263	2.72	203	3.07	257	2.72	198	3.07
Totals	35136	2.28	18700	3.08	35062	2.28	18526	3.07

Table 4: Estimated and Projected Household Income Totals

Block Group	Estimated Median Household Income	Estimated Average Household Income	Estimated Per Capita Income	Projected Median Household Income	Projected Average Household Income	Projected Per Capita Income
8067001	132076	194332	84472	150000	218347	94934
8067002	165477	251566	82582	180565	272500	89389
8067003	114606	154360	53008	124355	174671	60088
8071002	102964	128413	45118	109971	144355	50745
8071003	161069	196859	69001	167764	215164	75774
8072002	101025	113393	36220	109075	127455	40742
8072003	71949	107678	35759	75642	121363	40296
8072004	104024	131340	46237	114643	147712	52137
8072005	121607	159446	55503	123702	176585	61724
8087021	76587	123141	18171	83102	133636	19284
8087022	119921	161682	12033	118026	164869	12054
8088001	114443	174891	75544	124593	198650	86008
8088002	200001	274110	90153	200001	296896	97309
8089001	174188	219807	102956	200001	247844	116485
8089002	164450	230100	89268	174693	253096	97984
8089003	147674	203598	81462	157184	217552	86851
8090001	200001	310670	121768	200001	330523	129813
8090002	200001	295054	99355	200001	315687	106623
8090003	131054	179876	81236	154107	201708	91068
8090004	145758	192908	73185	156614	213027	80715
8091001	110819	174106	84909	123499	198095	96763
8091002	183056	217139	75003	196069	238965	82402
8091003	107220	164526	76837	125317	188214	87927
8092001	49372	54527	16229	54427	62258	18538
8092002	50941	59796	23625	55200	70623	28006
8092003	52863	57716	15302	57851	65900	17489
8092004	33858	68470	21208	33400	76495	23647

Block Group	Estimated Median Household Income	Estimated Average Household Income	Estimated Per Capita Income	Projected Median Household Income	Projected Average Household Income	Projected Per Capita Income
8093001	61636	143470	65559	79341	170895	77760
8093002	23146	64602	28043	27858	73667	31929
8093003	34939	107348	44992	41169	122007	51346
8094001	155780	197686	97565	169693	218065	107199
8094002	43027	80036	49761	48511	93744	58708
8094003	86546	115174	55455	94790	130322	63002
8094004	17452	50320	29855	19679	58493	34488
8095001	86959	153997	77474	96589	173930	87671
8095002	57660	91942	62631	68584	107456	73204
8095003	105874	159585	75217	123127	182769	86130
8096001	200001	298582	105559	200001	320829	113428
8096002	58516	88131	31763	64920	99821	35904
8096003	50338	87015	26615	52781	102027	31125
8097001	73166	123236	48167	84582	139292	54501
8097002	91157	121797	41016	98069	135228	45637
8097003	74688	95144	29437	72853	103271	32083
8098001	106813	166674	81370	121286	190206	92920
8098002	82248	134989	49178	95749	159586	57729
8099001	143398	205525	99152	158855	220999	106896
8100001	70049	107016	65186	81471	124183	75666
8100002	135986	175988	85786	153101	197920	96298
8100003	95131	145483	74762	105297	166312	85323
8101001	64413	88141	49811	67578	98768	56002
8101002	53361	76823	36026	59135	89041	41790
8101003	87260	114873	52329	96685	131324	59842
8101004	97540	105115	48810	89003	113616	53008
8101005	95321	121308	59884	96820	133583	65810
8102001	41631	66475	28366	48056	75799	32521
8102002	69784	80040	36256	75000	87721	39819
8102003	51359	58777	24390	57023	66821	27808

Block Group	Estimated Median Household Income	Estimated Average Household Income	Estimated Per Capita Income	Projected Median Household Income	Projected Average Household Income	Projected Per Capita Income
8102004	59054	82119	39427	67887	95651	46154
8102005	94603	101495	45971	100519	110942	50145
8102006	67564	87925	36592	72790	97194	40585
8103011	116337	138184	55820	126658	153172	61879
8103012	90880	115003	39033	97709	128967	43592
8103013	60170	95100	30081	67862	111300	35038
8103014	56489	103298	45168	63814	116137	50682
8103021	81031	107405	43994	91807	119167	48998
8103022	87204	119499	45331	95042	136031	51617
8103023	107866	128994	42868	113976	143787	47758

Table 5: Estimated and Projected Household and Household Income Percentages

Block Group	% Change Households	% Change Average Household Size	% Change Families	% Change Average Family Size	% Change Median Household Income	% Change Average Household Income	% Change Per Capita Income
8067001	-3.4%	0.00%	-3.4%	0.0%	13.6%	12.4%	12.4%
8067002	-4.6%	0.00%	-4.7%	0.0%	9.1%	8.3%	8.2%
8067003	-2.3%	0.00%	-2.5%	0.0%	8.5%	13.2%	13.4%
8071002	-0.9%	-0.35%	-1.0%	0.0%	6.8%	12.4%	12.5%
8071003	-1.2%	-0.35%	-1.2%	-0.3%	4.2%	9.3%	9.8%
8072002	-1.6%	0.00%	-1.6%	0.0%	8.0%	12.4%	12.5%
8072003	-3.2%	0.00%	-3.4%	0.3%	5.1%	12.7%	12.7%
8072004	-0.6%	-0.35%	-0.9%	0.0%	10.2%	12.5%	12.8%
8072005	-3.3%	-0.35%	-3.2%	-0.3%	1.7%	10.7%	11.2%
8087021	-2.1%	0.00%	-2.3%	0.4%	8.5%	8.5%	6.1%
8087022	-1.6%	0.40%	0.0%	-1.1%	-1.6%	2.0%	0.2%
8088001	1.0%	0.00%	0.8%	0.0%	8.9%	13.6%	13.9%
8088002	-2.1%	0.00%	-2.2%	0.0%	0.0%	8.3%	7.9%
8089001	-2.0%	0.00%	-2.0%	-0.3%	14.8%	12.8%	13.1%
8089002	-2.2%	0.00%	-2.0%	0.0%	6.2%	10.0%	9.8%
8089003	-2.7%	0.00%	-2.8%	0.0%	6.4%	6.9%	6.6%
8090001	-1.1%	0.00%	-1.0%	-0.3%	0.0%	6.4%	6.6%
8090002	-3.4%	-0.34%	-3.4%	-0.3%	0.0%	7.0%	7.3%
8090003	-0.6%	0.00%	-0.6%	0.0%	17.6%	12.1%	12.1%
8090004	-0.5%	0.00%	-0.4%	0.0%	7.4%	10.4%	10.3%
8091001	-0.2%	0.00%	-0.3%	0.0%	11.4%	13.8%	14.0%
8091002	-1.6%	0.00%	-1.6%	0.3%	7.1%	10.1%	9.9%
8091003	-3.2%	0.00%	-3.5%	0.3%	16.9%	14.4%	14.4%
8092001	-3.5%	0.00%	-3.7%	0.3%	10.2%	14.2%	14.2%
8092002	-0.4%	-0.40%	-0.7%	0.0%	8.4%	18.1%	18.5%
8092003	0.6%	0.00%	0.3%	0.0%	9.4%	14.2%	14.3%
8092004	-1.3%	0.00%	-1.5%	0.5%	-1.4%	11.7%	11.5%
8093001	-4.7%	0.46%	-4.7%	0.7%	28.7%	19.1%	18.6%
8093002	2.7%	0.00%	3.4%	0.4%	20.4%	14.0%	13.9%

Block Group	% Change Households	% Change Average Household Size	% Change Families	% Change Average Family Size	% Change Median Household Income	% Change Average Household Income	% Change Per Capita Income
8093003	4.9%	0.00%	5.4%	0.0%	17.8%	13.7%	14.1%
8094001	0.4%	0.00%	0.4%	0.7%	8.9%	10.3%	9.9%
8094002	11.5%	0.00%	11.7%	0.4%	12.7%	17.1%	18.0%
8094003	4.0%	0.00%	4.1%	0.4%	9.5%	13.2%	13.6%
8094004	1.7%	0.59%	1.9%	0.8%	12.8%	16.2%	15.5%
8095001	3.8%	-0.50%	3.9%	-0.4%	11.1%	12.9%	13.2%
8095002	1.7%	0.00%	1.7%	0.4%	18.9%	16.9%	16.9%
8095003	-1.7%	0.00%	-1.5%	-0.4%	16.3%	14.5%	14.5%
8096001	-2.1%	0.00%	-2.3%	0.3%	0.0%	7.5%	7.5%
8096002	-0.2%	0.36%	-0.3%	0.3%	10.9%	13.3%	13.0%
8096003	0.5%	0.31%	0.3%	0.5%	4.9%	17.3%	16.9%
8097001	-0.6%	0.00%	-0.6%	0.0%	15.6%	13.0%	13.2%
8097002	-1.9%	-0.34%	-1.9%	-0.3%	7.6%	11.0%	11.3%
8097003	-1.7%	-0.31%	-1.6%	-0.5%	-2.5%	8.5%	9.0%
8098001	-1.8%	0.00%	-1.8%	0.0%	13.5%	14.1%	14.2%
8098002	-3.3%	-0.47%	-3.5%	0.0%	16.4%	18.2%	17.4%
8099001	-2.1%	-0.49%	-2.3%	0.0%	10.8%	7.5%	7.8%
8100001	0.4%	0.00%	0.0%	0.4%	16.3%	16.0%	16.1%
8100002	2.1%	0.49%	1.8%	0.4%	12.6%	12.5%	12.3%
8100003	-1.6%	0.00%	-1.8%	0.4%	10.7%	14.3%	14.1%
8101001	-2.5%	-0.56%	-2.9%	0.0%	4.9%	12.1%	12.4%
8101002	-1.3%	-0.47%	-1.5%	0.0%	10.8%	15.9%	16.0%
8101003	-2.4%	-0.45%	-2.4%	-0.3%	10.8%	14.3%	14.4%
8101004	-0.4%	-0.47%	-0.6%	0.0%	-8.8%	8.1%	8.6%
8101005	-0.5%	0.00%	-0.8%	0.4%	1.6%	10.1%	9.9%
8102001	-1.5%	-0.43%	-1.7%	-0.3%	15.4%	14.0%	14.6%
8102002	1.3%	-0.45%	1.3%	0.0%	7.5%	9.6%	9.8%
8102003	-2.6%	-0.41%	-2.5%	-0.3%	11.0%	13.7%	14.0%
8102004	-0.8%	-0.48%	-0.9%	-0.4%	15.0%	16.5%	17.1%
8102005	-0.6%	0.00%	-0.6%	0.3%	6.3%	9.3%	9.1%
8102006	-0.9%	-0.42%	-0.9%	-0.3%	7.7%	10.5%	10.9%

Block Group	% Change Households	% Change Average Household Size	% Change Families	% Change Average Family Size	% Change Median Household Income	% Change Average Household Income	% Change Per Capita Income
8103011	-0.7%	0.00%	-0.5%	0.0%	8.9%	10.8%	10.9%
8103012	-3.0%	0.34%	-3.2%	0.6%	7.5%	12.1%	11.7%
8103013	-2.8%	0.00%	-2.9%	0.3%	12.8%	17.0%	16.5%
8103014	-1.5%	0.00%	-1.6%	0.3%	13.0%	12.4%	12.2%
8103021	-1.3%	-0.41%	-1.5%	0.0%	13.3%	11.0%	11.4%
8103022	-2.4%	0.00%	-2.6%	0.3%	9.0%	13.8%	13.9%
8103023	-2.3%	0.00%	-2.5%	0.0%	5.7%	11.5%	11.4%
Totals	-0.2%	-0.4%	-0.9%	-0.1%			

Table 6: Estimated and Projected Housing Units

Block Group	Estimated Total Housing	Estimated Owner-Occupied	Estimated Renter-Occupied	Estimated Vacant	Projected Housing	Projected Owner-Occupied	Projected Renter-Occupied	Projected Vacant Housing
8067001	633	517	42	74	633	502	38	93
8067002	408	338	8	62	408	323	7	78
8067003	370	306	35	29	370	301	32	37
8071002	572	425	108	39	572	427	101	44
8071003	535	488	29	18	535	484	27	24
8072002	738	508	173	57	738	507	163	68
8072003	348	269	48	31	348	263	44	41
8072004	312	287	22	3	312	286	21	5
8072005	308	255	20	33	308	248	18	42
8087021	434	256	131	47	434	257	122	55
8087022	65	20	43	2	65	21	41	3
8088001	826	499	326	1	834	518	315	1
8088002	728	601	100	27	728	594	92	42
8089001	684	468	147	69	684	467	136	81
8089002	312	241	36	35	312	238	33	41
8089003	806	646	108	52	806	635	99	72
8090001	278	243	20	15	278	241	19	18
8090002	298	252	12	34	298	244	11	43
8090003	713	346	310	57	713	356	296	61
8090004	391	346	33	12	391	346	31	14
8091001	650	433	161	56	650	441	152	57
8091002	316	282	23	11	316	279	21	16
8091003	661	360	201	100	661	363	180	118
8092001	405	125	164	116	405	119	160	126
8092002	623	119	412	92	623	125	404	94
8092003	422	207	156	59	422	215	150	57
8092004	341	199	103	39	341	201	97	43
8093001	461	203	179	79	461	200	164	97

Block Group	Estimated Total Housing	Estimated Owner-Occupied	Estimated Renter-Occupied	Estimated Vacant	Projected Housing	Projected Owner-Occupied	Projected Renter-Occupied	Projected Vacant Housing
8093002	1057	173	883	1	1086	189	896	1
8093003	890	170	719	1	934	189	744	1
8094001	721	297	195	229	723	307	187	229
8094002	1049	352	669	28	1139	352	786	1
8094003	1188	437	750	1	1235	475	759	1
8094004	939	83	855	1	955	90	864	1
8095001	898	396	501	1	932	413	518	1
8095002	1143	359	679	105	1128	383	673	72
8095003	449	193	216	40	449	197	205	47
8096001	301	236	44	21	301	233	41	27
8096002	546	213	284	49	546	221	275	50
8096003	433	287	114	32	433	294	109	30
8097001	521	313	174	34	521	319	165	37
8097002	597	332	193	72	597	321	194	82
8097003	262	203	34	25	262	202	31	29
8098001	498	223	232	43	498	227	220	51
8098002	673	238	346	89	673	240	325	108
8099001	1394	800	503	91	1360	829	446	85
8100001	1155	505	603	47	1128	527	585	16
8100002	1011	490	520	1	1032	528	503	1
8100003	786	389	358	39	786	394	341	51
8101001	319	60	222	37	319	62	213	44
8101002	592	171	355	66	592	167	352	73
8101003	415	193	181	41	415	197	168	50
8101004	300	174	106	20	300	178	101	21
8101005	599	285	265	49	599	293	254	52
8102001	453	150	246	57	453	151	239	63
8102002	688	147	378	163	689	157	375	157
8102003	459	145	199	115	459	140	195	124
8102004	701	289	351	61	701	310	325	66

Block Group	Estimated Total Housing	Estimated Owner-Occupied	Estimated Renter-Occupied	Estimated Vacant	Projected Housing	Projected Owner-Occupied	Projected Renter-Occupied	Projected Vacant Housing
8102005	347	209	99	39	347	212	94	41
8102006	391	242	108	41	391	245	102	44
8103011	301	258	28	15	301	258	26	17
8103012	330	228	70	32	330	225	64	41
8103013	436	313	79	44	436	309	72	55
8103014	490	244	209	37	490	249	197	44
8103021	582	308	229	45	582	309	221	52
8103022	442	279	103	60	442	278	95	69
8103023	287	241	22	24	287	237	20	30
Totals	38281	19864	15272	3145	38497	20108	14954	3435

Table 7: Estimated and Projected Housing Values

Block Group	Estimated Median Value	Estimated Average Value	Projected Median Value	Projected Average Value
8067001	437075	518520	448344	519273
8067002	668712	719009	673611	745975
8067003	360000	418301	363174	411960
8071002	385227	418882	388964	425644
8071003	422941	458299	428571	457696
8072002	316588	341388	332292	357594
8072003	334470	343680	343617	353897
8072004	321479	325174	332500	336976
8072005	347753	389314	356701	388710
8087021	268182	327051	318939	385992
8087022	487500	671250	593750	673810
8088001	626208	651253	628968	685473
8088002	846106	955990	949029	1098737
8089001	692308	733120	710329	789722
8089002	595085	651037	587687	633508
8089003	499371	545511	498580	537244
8090001	677083	754321	863411	867324
8090002	712054	823115	775974	831455
8090003	693431	733020	699301	755969
8090004	523529	528179	526836	532876
8091001	522177	525577	535301	533560
8091002	583969	628723	585526	637814
8091003	630952	657778	631181	669628
8092001	273276	361200	294079	392437
8092002	306757	329202	343000	372800
8092003	230319	330072	261082	369884
8092004	263596	473116	281597	506592
8093001	630172	630419	623418	624000
8093002	454000	479624	495455	504365

Block Group	Estimated Median Value	Estimated Average Value	Projected Median Value	Projected Average Value
8093003	562500	540735	575231	566138
8094001	797917	860606	1197236	1125326
8094002	311940	333452	336076	366477
8094003	496914	558124	500616	545105
8094004	464286	540361	515152	556389
8095001	506098	540657	525152	550424
8095002	340991	344638	373022	388055
8095003	601190	637047	611607	651777
8096001	663265	740784	655973	738841
8096002	370000	375000	426842	421833
8096003	286058	308711	328723	349150
8097001	499254	528195	509483	537461
8097002	361345	374849	377559	394393
8097003	271875	283374	289831	299381
8098001	761161	848094	845052	929956
8098002	631944	646218	627083	655104
8099001	574405	780438	708333	778136
8100001	281800	314802	315323	359061
8100002	546089	584847	544181	573674
8100003	365441	503278	404762	523858
8101001	295455	340833	298438	346774
8101002	465000	569006	465625	552246
8101003	391346	499870	392857	473604
8101004	386813	421264	387755	425702
8101005	359231	402281	391176	429437
8102001	195000	213333	222177	265232
8102002	256250	316327	360256	399045
8102003	153358	140172	168125	159643
8102004	208929	268599	295745	350484
8102005	413158	464234	482609	500118
8102006	372414	409194	385938	435510

Block Group	Estimated Median Value	Estimated Average Value	Projected Median Value	Projected Average Value
8103011	277273	316279	293617	349128
8103012	336170	405592	348558	409778
8103013	292677	381390	321605	394903
8103014	379200	404816	384470	415964
8103021	321905	345698	346311	373220
8103022	397475	441577	411864	453507
8103023	341288	342842	353571	366772

Table 8: Estimated and Projected Housing Change Percentages

Block Group	% Change Housing	% Change Owner-Occupied	% Change Renter Occupied	% Change Vacant	% Change Median Value	% Change Average Value
8067001	0.0%	-2.9%	-9.5%	25.7%	2.6%	0.1%
8067002	0.0%	-4.4%	-12.5%	25.8%	0.7%	3.8%
8067003	0.0%	-1.6%	-8.6%	27.6%	0.9%	-1.5%
8071002	0.0%	0.5%	-6.5%	12.8%	1.0%	1.6%
8071003	0.0%	-0.8%	-6.9%	33.3%	1.3%	-0.1%
8072002	0.0%	-0.2%	-5.8%	19.3%	5.0%	4.7%
8072003	0.0%	-2.2%	-8.3%	32.3%	2.7%	3.0%
8072004	0.0%	-0.3%	-4.5%	66.7%	3.4%	3.6%
8072005	0.0%	-2.7%	-10.0%	27.3%	2.6%	-0.2%
8087021	0.0%	0.4%	-6.9%	17.0%	18.9%	18.0%
8087022	0.0%	5.0%	-4.7%	50.0%	21.8%	0.4%
8088001	1.0%	3.8%	-3.4%	0.0%	0.4%	5.3%
8088002	0.0%	-1.2%	-8.0%	55.6%	12.2%	14.9%
8089001	0.0%	-0.2%	-7.5%	17.4%	2.6%	7.7%
8089002	0.0%	-1.2%	-8.3%	17.1%	-1.2%	-2.7%
8089003	0.0%	-1.7%	-8.3%	38.5%	-0.2%	-1.5%
8090001	0.0%	-0.8%	-5.0%	20.0%	27.5%	15.0%
8090002	0.0%	-3.2%	-8.3%	26.5%	9.0%	1.0%
8090003	0.0%	2.9%	-4.5%	7.0%	0.8%	3.1%
8090004	0.0%	0.0%	-6.1%	16.7%	0.6%	0.9%
8091001	0.0%	1.8%	-5.6%	1.8%	2.5%	1.5%
8091002	0.0%	-1.1%	-8.7%	45.5%	0.3%	1.4%
8091003	0.0%	0.8%	-10.4%	18.0%	0.0%	1.8%
8092001	0.0%	-4.8%	-2.4%	8.6%	7.6%	8.6%
8092002	0.0%	5.0%	-1.9%	2.2%	11.8%	13.2%
8092003	0.0%	3.9%	-3.8%	-3.4%	13.4%	12.1%
8092004	0.0%	1.0%	-5.8%	10.3%	6.8%	7.1%
8093001	0.0%	-1.5%	-8.4%	22.8%	-1.1%	-1.0%
8093002	2.7%	9.2%	1.5%	0.0%	9.1%	5.2%

Block Group	% Change Housing	% Change Owner-Occupied	% Change Renter Occupied	% Change Vacant	% Change Median Value	% Change Average Value
8093003	4.9%	11.2%	3.5%	0.0%	2.3%	4.7%
8094001	0.3%	3.4%	-4.1%	0.0%	50.0%	30.8%
8094002	8.6%	0.0%	17.5%	-96.4%	7.7%	9.9%
8094003	4.0%	8.7%	1.2%	0.0%	0.7%	-2.3%
8094004	1.7%	8.4%	1.1%	0.0%	11.0%	3.0%
8095001	3.8%	4.3%	3.4%	0.0%	3.8%	1.8%
8095002	-1.3%	6.7%	-0.9%	-31.4%	9.4%	12.6%
8095003	0.0%	2.1%	-5.1%	17.5%	1.7%	2.3%
8096001	0.0%	-1.3%	-6.8%	28.6%	-1.1%	-0.3%
8096002	0.0%	3.8%	-3.2%	2.0%	15.4%	12.5%
8096003	0.0%	2.4%	-4.4%	-6.3%	14.9%	13.1%
8097001	0.0%	1.9%	-5.2%	8.8%	2.0%	1.8%
8097002	0.0%	-3.3%	0.5%	13.9%	4.5%	5.2%
8097003	0.0%	-0.5%	-8.8%	16.0%	6.6%	5.6%
8098001	0.0%	1.8%	-5.2%	18.6%	11.0%	9.7%
8098002	0.0%	0.8%	-6.1%	21.3%	-0.8%	1.4%
8099001	-2.4%	3.6%	-11.3%	-6.6%	23.3%	-0.3%
8100001	-2.3%	4.4%	-3.0%	-66.0%	11.9%	14.1%
8100002	2.1%	7.8%	-3.3%	0.0%	-0.3%	-1.9%
8100003	0.0%	1.3%	-4.7%	30.8%	10.8%	4.1%
8101001	0.0%	3.3%	-4.1%	18.9%	1.0%	1.7%
8101002	0.0%	-2.3%	-0.8%	10.6%	0.1%	-2.9%
8101003	0.0%	2.1%	-7.2%	22.0%	0.4%	-5.3%
8101004	0.0%	2.3%	-4.7%	5.0%	0.2%	1.1%
8101005	0.0%	2.8%	-4.2%	6.1%	8.9%	6.8%
8102001	0.0%	0.7%	-2.8%	10.5%	13.9%	24.3%
8102002	0.1%	6.8%	-0.8%	-3.7%	40.6%	26.1%
8102003	0.0%	-3.4%	-2.0%	7.8%	9.6%	13.9%
8102004	0.0%	7.3%	-7.4%	8.2%	41.6%	30.5%
8102005	0.0%	1.4%	-5.1%	5.1%	16.8%	7.7%
8102006	0.0%	1.2%	-5.6%	7.3%	3.6%	6.4%

Block Group	% Change Housing	% Change Owner-Occupied	% Change Renter Occupied	% Change Vacant	% Change Median Value	% Change Average Value
8103011	0.0%	0.0%	-7.1%	13.3%	5.9%	10.4%
8103012	0.0%	-1.3%	-8.6%	28.1%	3.7%	1.0%
8103013	0.0%	-1.3%	-8.9%	25.0%	9.9%	3.5%
8103014	0.0%	2.0%	-5.7%	18.9%	1.4%	2.8%
8103021	0.0%	0.3%	-3.5%	15.6%	7.6%	8.0%
8103022	0.0%	-0.4%	-7.8%	15.0%	3.6%	2.7%
8103023	0.0%	-1.7%	-9.1%	25.0%	3.6%	7.0%
Total	0.6%	1.2%	-2.1%	9.2%		

Table 9: Estimated and Projected School-Age Population

Block Groups	Total Estimated Under 15	Estimated Under 1	Estimated 1-2	Estimated 3-5	Estimated 6-11	Estimated 12-14	Total Projected Under 15	Projected Under 1	Projected 1-2	Projected 3-5	Projected 6-11	Projected 12-14
8067001	256	12	30	52	113	49	257	11	27	45	114	60
8067002	214	8	19	37	94	56	200	9	19	36	87	49
8067003	167	11	23	25	70	38	162	11	23	25	67	36
8071002	279	18	32	46	110	73	256	18	35	50	100	53
8071003	288	14	32	52	121	69	285	16	32	54	120	63
8072002	372	23	48	73	149	79	367	23	46	72	149	77
8072003	139	10	12	26	60	31	130	11	12	26	52	29
8072004	153	7	17	29	70	30	147	7	18	30	64	28
8072005	123	7	14	22	51	29	117	7	14	21	50	25
8087021	55	12	9	14	14	6	55	12	9	14	14	6
8087022	18	2	2	5	8	1	18	2	2	5	8	1
8088001	412	27	53	73	166	93	405	29	54	77	166	79
8088002	329	11	35	58	153	72	324	11	35	62	156	60
8089001	228	14	28	42	89	55	222	13	28	47	92	42
8089002	184	7	16	30	82	49	163	7	16	29	72	39
8089003	368	21	52	91	145	59	352	21	51	89	135	56
8090001	145	8	15	34	63	25	140	8	15	34	60	23
8090002	170	9	16	27	70	48	156	6	16	29	71	34
8090003	188	13	22	43	83	27	175	13	21	39	77	25
8090004	243	16	28	56	102	41	238	16	28	56	99	39
8091001	223	13	27	41	89	53	216	12	28	45	89	42
8091002	255	8	23	47	117	60	251	8	23	47	115	58
8091003	221	12	22	39	106	42	207	12	21	37	100	37
8092001	241	12	36	40	95	58	231	12	35	40	90	54
8092002	256	15	32	51	106	52	240	19	33	45	94	49
8092003	334	26	43	61	122	82	332	27	43	61	120	81

Block Groups	Total Estimated Under 15	Estimated Under 1	Estimated 1-2	Estimated 3-5	Estimated 6-11	Estimated 12-14	Total Projected Under 15	Projected Under 1	Projected 1-2	Projected 3-5	Projected 6-11	Projected 12-14
8092004	176	12	23	36	70	35	175	12	24	37	68	34
8093001	109	6	17	24	46	16	102	6	17	21	43	15
8093002	140	10	30	40	42	18	149	10	32	44	44	19
8093003	201	17	25	44	92	23	209	17	28	47	94	23
8094001	114	8	10	26	44	26	113	8	10	29	43	23
8094002	79	8	11	18	39	3	88	11	15	22	37	3
8094003	167	20	33	30	63	21	158	22	34	28	55	19
8094004	50	12	13	12	10	3	52	13	14	12	10	3
8095001	179	17	30	38	65	29	190	18	34	45	69	24
8095002	85	12	20	23	23	7	86	12	20	24	23	7
8095003	90	4	14	19	37	16	80	4	14	21	30	11
8096001	160	9	18	28	66	39	158	6	17	31	71	33
8096002	301	21	42	60	119	59	281	23	41	57	106	54
8096003	249	16	28	42	101	62	229	15	30	44	90	50
8097001	251	17	27	59	109	39	248	17	27	60	106	38
8097002	341	17	46	64	145	69	331	17	46	63	138	67
8097003	136	8	16	25	56	31	127	9	16	24	51	27
8098001	145	14	23	25	46	37	141	14	23	25	44	35
8098002	195	16	24	42	67	46	165	16	24	43	51	31
8099001	464	35	54	87	199	89	444	33	52	88	192	79
8100001	213	15	36	61	64	37	191	15	38	52	52	34
8100002	366	24	48	71	148	75	331	25	49	68	126	63
8100003	205	21	33	50	79	22	201	21	33	50	75	22
8101001	56	5	10	15	17	9	56	5	10	15	17	9
8101002	189	15	24	39	77	34	156	16	24	36	58	22
8101003	177	11	25	37	69	35	164	13	25	36	63	27
8101004	124	7	16	23	52	26	121	7	15	24	50	25
8101005	235	8	35	39	85	68	219	8	38	36	77	60

Block Groups	Total Estimated Under 15	Estimated Under 1	Estimated 1-2	Estimated 3-5	Estimated 6-11	Estimated 12-14	Total Projected Under 15	Projected Under 1	Projected 1-2	Projected 3-5	Projected 6-11	Projected 12-14
8102001	223	13	27	41	93	49	187	13	24	36	74	40
8102002	215	16	28	45	84	42	205	15	31	41	82	36
8102003	162	10	20	29	65	38	136	9	17	27	54	29
8102004	187	13	26	39	72	37	168	13	26	36	64	29
8102005	125	9	14	22	51	29	111	9	14	21	43	24
8102006	172	7	24	35	77	29	168	7	24	35	74	28
8103011	123	6	13	23	53	28	116	8	15	21	45	27
8103012	189	11	22	34	79	43	169	10	20	31	70	38
8103013	214	11	29	49	75	50	202	11	27	46	72	46
8103014	193	11	26	39	76	41	183	13	26	41	67	36
8103021	247	12	26	48	100	61	239	12	26	46	98	57
8103022	186	11	21	32	77	45	170	13	22	33	65	37
8103023	119	7	17	22	48	25	115	7	17	22	46	23
Totals	13413	858	1710	2649	5428	2768	12780	874	1723	2633	5098	2452

Table 10: Estimated and Projected School-Age Population Change Percentages

Block Groups	% Change Under 1 yr	% Change 1-2 yrs	% Change 3-5 yrs	% Change 6-11 yrs	% Change 12-14 yrs	% Change Total Under 15 yrs
8067001	-8.3%	-10.0%	-13.5%	0.9%	22.4%	0.4%
8067002	12.5%	0.0%	-2.7%	-7.4%	-12.5%	-6.5%
8067003	0.0%	0.0%	0.0%	-4.3%	-5.3%	-3.0%
8071002	0.0%	9.4%	8.7%	-9.1%	-27.4%	-8.2%
8071003	14.3%	0.0%	3.8%	-0.8%	-8.7%	-1.0%
8072002	0.0%	-4.2%	-1.4%	0.0%	-2.5%	-1.3%
8072003	10.0%	0.0%	0.0%	-13.3%	-6.5%	-6.5%
8072004	0.0%	5.9%	3.4%	-8.6%	-6.7%	-3.9%
8072005	0.0%	0.0%	-4.5%	-2.0%	-13.8%	-4.9%
8087021	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8087022	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8088001	7.4%	1.9%	5.5%	0.0%	-15.1%	-1.7%
8088002	0.0%	0.0%	6.9%	2.0%	-16.7%	-1.5%
8089001	-7.1%	0.0%	11.9%	3.4%	-23.6%	-2.6%
8089002	0.0%	0.0%	-3.3%	-12.2%	-20.4%	-11.4%
8089003	0.0%	-1.9%	-2.2%	-6.9%	-5.1%	-4.3%
8090001	0.0%	0.0%	0.0%	-4.8%	-8.0%	-3.4%
8090002	-33.3%	0.0%	7.4%	1.4%	-29.2%	-8.2%
8090003	0.0%	-4.5%	-9.3%	-7.2%	-7.4%	-6.9%
8090004	0.0%	0.0%	0.0%	-2.9%	-4.9%	-2.1%
8091001	-7.7%	3.7%	9.8%	0.0%	-20.8%	-3.1%
8091002	0.0%	0.0%	0.0%	-1.7%	-3.3%	-1.6%
8091003	0.0%	-4.5%	-5.1%	-5.7%	-11.9%	-6.3%
8092001	0.0%	-2.8%	0.0%	-5.3%	-6.9%	-4.1%
8092002	26.7%	3.1%	-11.8%	-11.3%	-5.8%	-6.3%
8092003	3.8%	0.0%	0.0%	-1.6%	-1.2%	-0.6%

Block Groups	% Change Under 1 yr	% Change 1-2 yrs	% Change 3-5 yrs	% Change 6-11 yrs	% Change 12-14 yrs	% Change Total Under 15 yrs
8092004	0.0%	4.3%	2.8%	-2.9%	-2.9%	-0.6%
8093001	0.0%	0.0%	-12.5%	-6.5%	-6.3%	-6.4%
8093002	0.0%	6.7%	10.0%	4.8%	5.6%	6.4%
8093003	0.0%	12.0%	6.8%	2.2%	0.0%	4.0%
8094001	0.0%	0.0%	11.5%	-2.3%	-11.5%	-0.9%
8094002	37.5%	36.4%	22.2%	-5.1%	0.0%	11.4%
8094003	10.0%	3.0%	-6.7%	-12.7%	-9.5%	-5.4%
8094004	8.3%	7.7%	0.0%	0.0%	0.0%	4.0%
8095001	5.9%	13.3%	18.4%	6.2%	-17.2%	6.1%
8095002	0.0%	0.0%	4.3%	0.0%	0.0%	1.2%
8095003	0.0%	0.0%	10.5%	-18.9%	-31.3%	-11.1%
8096001	-33.3%	-5.6%	10.7%	7.6%	-15.4%	-1.3%
8096002	9.5%	-2.4%	-5.0%	-10.9%	-8.5%	-6.6%
8096003	-6.3%	7.1%	4.8%	-10.9%	-19.4%	-8.0%
8097001	0.0%	0.0%	1.7%	-2.8%	-2.6%	-1.2%
8097002	0.0%	0.0%	-1.6%	-4.8%	-2.9%	-2.9%
8097003	12.5%	0.0%	-4.0%	-8.9%	-12.9%	-6.6%
8098001	0.0%	0.0%	0.0%	-4.3%	-5.4%	-2.8%
8098002	0.0%	0.0%	2.4%	-23.9%	-32.6%	-15.4%
8099001	-5.7%	-3.7%	1.1%	-3.5%	-11.2%	-4.3%
8100001	0.0%	5.6%	-14.8%	-18.8%	-8.1%	-10.3%
8100002	4.2%	2.1%	-4.2%	-14.9%	-16.0%	-9.6%
8100003	0.0%	0.0%	0.0%	-5.1%	0.0%	-2.0%
8101001	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8101002	6.7%	0.0%	-7.7%	-24.7%	-35.3%	-17.5%
8101003	18.2%	0.0%	-2.7%	-8.7%	-22.9%	-7.3%
8101004	0.0%	-6.3%	4.3%	-3.8%	-3.8%	-2.4%
8101005	0.0%	8.6%	-7.7%	-9.4%	-11.8%	-6.8%

Block Groups	% Change Under 1 yr	% Change 1-2 yrs	% Change 3-5 yrs	% Change 6-11 yrs	% Change 12-14 yrs	% Change Total Under 15 yrs
8102001	0.0%	-11.1%	-12.2%	-20.4%	-18.4%	-16.1%
8102002	-6.3%	10.7%	-8.9%	-2.4%	-14.3%	-4.7%
8102003	-10.0%	-15.0%	-6.9%	-16.9%	-23.7%	-16.0%
8102004	0.0%	0.0%	-7.7%	-11.1%	-21.6%	-10.2%
8102005	0.0%	0.0%	-4.5%	-15.7%	-17.2%	-11.2%
8102006	0.0%	0.0%	0.0%	-3.9%	-3.4%	-2.3%
8103011	33.3%	15.4%	-8.7%	-15.1%	-3.6%	-5.7%
8103012	-9.1%	-9.1%	-8.8%	-11.4%	-11.6%	-10.6%
8103013	0.0%	-6.9%	-6.1%	-4.0%	-8.0%	-5.6%
8103014	18.2%	0.0%	5.1%	-11.8%	-12.2%	-5.2%
8103021	0.0%	0.0%	-4.2%	-2.0%	-6.6%	-3.2%
8103022	18.2%	4.8%	3.1%	-15.6%	-17.8%	-8.6%
8103023	0.0%	0.0%	0.0%	-4.2%	-8.0%	-3.4%
Total	1.9%	0.8%	-0.6%	-6.1%	-11.4%	-4.7%

Table 11: Estimated and Projected Total Population By Race

Block Group	Estimated Total Population	Estimated White	Estimated Black	Estimated Other	Projected Total Population	Projected White	Projected Black	Projected Other
8067001	1286	948	86	252	1242	902	142	198
8067002	1054	954	21	79	1006	906	36	64
8067003	993	677	18	298	968	631	24	313
8071002	1517	861	138	518	1502	832	231	439
8071003	1475	1116	56	303	1451	1072	96	283
8072002	2132	839	176	1117	2096	783	302	1011
8072003	955	535	28	392	925	491	52	382
8072004	878	491	44	343	870	466	70	334
8072005	790	526	18	246	761	486	32	243
8087021	2930	1948	49	933	2916	1853	71	992
8087022	2848	1517	80	1251	2846	1427	124	1295
8088001	1910	1567	28	315	1924	1546	58	320
8088002	2140	1743	24	373	2101	1670	41	390
8089001	1313	1148	6	159	1283	1107	19	157
8089002	714	623	12	79	700	604	18	78
8089003	1886	1668	24	194	1840	1608	41	191
8090001	671	622	8	41	662	609	11	42
8090002	784	730	10	44	755	699	11	45
8090003	1458	1334	17	107	1449	1314	21	114
8090004	999	859	12	128	995	844	25	126
8091001	1218	1083	13	122	1214	1067	19	128
8091002	883	768	30	85	870	752	56	62
8091003	1202	1037	19	146	1163	989	39	135
8092001	971	199	306	466	937	205	515	217
8092002	1344	283	436	625	1334	284	735	315

Block Group	Estimated Total Population	Estimated White	Estimated Black	Estimated Other	Projected Total Population	Projected White	Projected Black	Projected Other
8092003	1371	227	439	705	1377	246	746	385
8092004	975	170	348	457	964	176	593	195
8093001	836	649	35	152	800	606	44	150
8093002	2438	1543	49	846	2508	1514	107	887
8093003	2136	1326	140	670	2230	1333	206	691
8094001	997	862	13	122	1005	858	33	114
8094002	1655	1125	45	485	1828	1197	92	539
8094003	2493	1312	47	1134	2577	1272	101	1204
8094004	1581	1007	19	555	1618	978	30	610
8095001	1783	1237	92	454	1847	1246	157	444
8095002	1526	1096	33	397	1552	1080	96	376
8095003	870	659	32	179	855	630	49	176
8096001	792	614	49	129	775	595	88	92
8096002	1379	522	245	612	1379	518	433	428
8096003	1311	183	434	694	1321	194	751	376
8097001	1246	841	118	287	1237	824	194	219
8097002	1559	623	240	696	1526	609	394	523
8097003	766	143	263	360	750	147	443	160
8098001	932	748	23	161	915	719	41	155
8098002	1629	1194	86	349	1584	1146	186	252
8099001	2702	2190	77	435	2637	2097	120	420
8100001	1819	1366	35	418	1825	1331	74	420
8100002	2072	1604	71	397	2119	1608	114	397
8100003	1454	1181	37	236	1433	1147	75	211
8101001	499	334	32	133	485	319	55	111
8101002	1123	681	145	297	1107	664	228	215
8101003	821	517	70	234	801	493	105	203
8101004	603	437	33	133	598	425	55	118

Block Group	Estimated Total Population	Estimated White	Estimated Black	Estimated Other	Projected Total Population	Projected White	Projected Black	Projected Other
8101005	1116	767	72	277	1112	749	139	224
8102001	928	254	268	406	909	254	447	208
8102002	1159	365	228	566	1172	363	386	423
8102003	829	247	244	338	805	243	377	185
8102004	1333	586	275	472	1316	577	449	290
8102005	680	441	44	195	677	428	81	168
8102006	841	432	142	267	831	423	226	182
8103011	708	350	100	258	703	343	176	184
8103012	878	342	145	391	855	331	259	265
8103013	1246	586	197	463	1216	570	322	324
8103014	1036	495	185	356	1022	486	307	229
8103021	1311	692	212	407	1289	676	368	245
8103022	1007	571	158	278	983	554	267	162
8103023	795	441	112	242	777	425	180	172
Total	87586	55036	7291	25259	87130	53541	12383	21206

Table 12: Estimated and Projected Total Population Change and Composition By Race

Block Group	Projected % Change White	Projected % Change Black	Projected % Change Other	Estimated % Total White	Estimated % Total Black	Estimated % Total Other	Projected % Total White	Projected % Total Black	Projected % Total Other	% Change Total White	% Change Total Black	% Change Total Other
8067001	-4.9%	65.1%	-21.4%	73.7%	6.7%	19.6%	72.6%	11.4%	15.9%	-1.5%	71.0%	-18.6%
8067002	-5.0%	71.4%	-19.0%	90.5%	2.0%	7.5%	90.1%	3.6%	6.4%	-0.5%	79.6%	-15.1%
8067003	-6.8%	33.3%	5.0%	68.2%	1.8%	30.0%	65.2%	2.5%	32.3%	-4.4%	36.8%	7.7%
8071002	-3.4%	67.4%	-15.3%	56.8%	9.1%	34.1%	55.4%	15.4%	29.2%	-2.4%	69.1%	-14.4%
8071003	-3.9%	71.4%	-6.6%	75.7%	3.8%	20.5%	73.9%	6.6%	19.5%	-2.4%	74.3%	-5.1%
8072002	-6.7%	71.6%	-9.5%	39.4%	8.3%	52.4%	37.4%	14.4%	48.2%	-5.1%	74.5%	-7.9%
8072003	-8.2%	85.7%	-2.6%	56.0%	2.9%	41.0%	53.1%	5.6%	41.3%	-5.2%	91.7%	0.6%
8072004	-5.1%	59.1%	-2.6%	55.9%	5.0%	39.1%	53.6%	8.0%	38.4%	-4.2%	60.6%	-1.7%
8072005	-7.6%	77.8%	-1.2%	66.6%	2.3%	31.1%	63.9%	4.2%	31.9%	-4.1%	84.6%	2.5%
8087021	-4.9%	44.9%	6.3%	66.5%	1.7%	31.8%	63.5%	2.4%	34.0%	-4.4%	45.6%	6.8%
8087022	-5.9%	55.0%	3.5%	53.3%	2.8%	43.9%	50.1%	4.4%	45.5%	-5.9%	55.1%	3.6%
8088001	-1.3%	107.1%	1.6%	82.0%	1.5%	16.5%	80.4%	3.0%	16.6%	-2.1%	105.6%	0.8%
8088002	-4.2%	70.8%	4.6%	81.4%	1.1%	17.4%	79.5%	2.0%	18.6%	-2.4%	74.0%	6.5%
8089001	-3.6%	216.7%	-1.3%	87.4%	0.5%	12.1%	86.3%	1.5%	12.2%	-1.3%	224.1%	1.1%
8089002	-3.0%	50.0%	-1.3%	87.3%	1.7%	11.1%	86.3%	2.6%	11.1%	-1.1%	53.0%	0.7%
8089003	-3.6%	70.8%	-1.5%	88.4%	1.3%	10.3%	87.4%	2.2%	10.4%	-1.2%	75.1%	0.9%
8090001	-2.1%	37.5%	2.4%	92.7%	1.2%	6.1%	92.0%	1.7%	6.3%	-0.8%	39.4%	3.8%
8090002	-4.2%	10.0%	2.3%	93.1%	1.3%	5.6%	92.6%	1.5%	6.0%	-0.6%	14.2%	6.2%
8090003	-1.5%	23.5%	6.5%	91.5%	1.2%	7.3%	90.7%	1.4%	7.9%	-0.9%	24.3%	7.2%
8090004	-1.7%	108.3%	-1.6%	86.0%	1.2%	12.8%	84.8%	2.5%	12.7%	-1.4%	109.2%	-1.2%
8091001	-1.5%	46.2%	4.9%	88.9%	1.1%	10.0%	87.9%	1.6%	10.5%	-1.2%	46.6%	5.3%
8091002	-2.1%	86.7%	-27.1%	87.0%	3.4%	9.6%	86.4%	6.4%	7.1%	-0.6%	89.5%	-26.0%
8091003	-4.6%	105.3%	-7.5%	86.3%	1.6%	12.1%	85.0%	3.4%	11.6%	-1.4%	112.1%	-4.4%
8092001	3.0%	68.3%	-53.4%	20.5%	31.5%	48.0%	21.9%	55.0%	23.2%	6.8%	74.4%	-51.7%
8092002	0.4%	68.6%	-49.6%	21.1%	32.4%	46.5%	21.3%	55.1%	23.6%	1.1%	69.8%	-49.2%

Block Group	Projected % Change White	Projected % Change Black	Projected % Change Other	Estimated % Total White	Estimated % Total Black	Estimated % Total Other	Projected % Total White	Projected % Total Black	Projected % Total Other	% Change Total White	% Change Total Black	% Change Total Other
8092003	8.4%	69.9%	-45.4%	16.6%	32.0%	51.4%	17.9%	54.2%	28.0%	7.9%	69.2%	-45.6%
8092004	3.5%	70.4%	-57.3%	17.4%	35.7%	46.9%	18.3%	61.5%	20.2%	4.7%	72.3%	-56.8%
8093001	-6.6%	25.7%	-1.3%	77.6%	4.2%	18.2%	75.8%	5.5%	18.8%	-2.4%	31.4%	3.1%
8093002	-1.9%	118.4%	4.8%	63.3%	2.0%	34.7%	60.4%	4.3%	35.4%	-4.6%	112.3%	1.9%
8093003	0.5%	47.1%	3.1%	62.1%	6.6%	31.4%	59.8%	9.2%	31.0%	-3.7%	40.9%	-1.2%
8094001	-0.5%	153.8%	-6.6%	86.5%	1.3%	12.2%	85.4%	3.3%	11.3%	-1.3%	151.8%	-7.3%
8094002	6.4%	104.4%	11.1%	68.0%	2.7%	29.3%	65.5%	5.0%	29.5%	-3.7%	85.1%	0.6%
8094003	-3.0%	114.9%	6.2%	52.6%	1.9%	45.5%	49.4%	3.9%	46.7%	-6.2%	107.9%	2.7%
8094004	-2.9%	57.9%	9.9%	63.7%	1.2%	35.1%	60.4%	1.9%	37.7%	-5.1%	54.3%	7.4%
8095001	0.7%	70.7%	-2.2%	69.4%	5.2%	25.5%	67.5%	8.5%	24.0%	-2.8%	64.7%	-5.6%
8095002	-1.5%	190.9%	-5.3%	71.8%	2.2%	26.0%	69.6%	6.2%	24.2%	-3.1%	186.0%	-6.9%
8095003	-4.4%	53.1%	-1.7%	75.7%	3.7%	20.6%	73.7%	5.7%	20.6%	-2.7%	55.8%	0.0%
8096001	-3.1%	79.6%	-28.7%	77.5%	6.2%	16.3%	76.8%	11.4%	11.9%	-1.0%	83.5%	-27.1%
8096002	-0.8%	76.7%	-30.1%	37.9%	17.8%	44.4%	37.6%	31.4%	31.0%	-0.8%	76.7%	-30.1%
8096003	6.0%	73.0%	-45.8%	14.0%	33.1%	52.9%	14.7%	56.9%	28.5%	5.2%	71.7%	-46.2%
8097001	-2.0%	64.4%	-23.7%	67.5%	9.5%	23.0%	66.6%	15.7%	17.7%	-1.3%	65.6%	-23.1%
8097002	-2.2%	64.2%	-24.9%	40.0%	15.4%	44.6%	39.9%	25.8%	34.3%	-0.1%	67.7%	-23.2%
8097003	2.8%	68.4%	-55.6%	18.7%	34.3%	47.0%	19.6%	59.1%	21.3%	5.0%	72.0%	-54.6%
8098001	-3.9%	78.3%	-3.7%	80.3%	2.5%	17.3%	78.6%	4.5%	16.9%	-2.1%	81.6%	-1.9%
8098002	-4.0%	116.3%	-27.8%	73.3%	5.3%	21.4%	72.3%	11.7%	15.9%	-1.3%	122.4%	-25.7%
8099001	-4.2%	55.8%	-3.4%	81.1%	2.8%	16.1%	79.5%	4.6%	15.9%	-1.9%	59.7%	-1.1%
8100001	-2.6%	111.4%	0.5%	75.1%	1.9%	23.0%	72.9%	4.1%	23.0%	-2.9%	110.7%	0.1%
8100002	0.2%	60.6%	0.0%	77.4%	3.4%	19.2%	75.9%	5.4%	18.7%	-2.0%	57.0%	-2.2%
8100003	-2.9%	102.7%	-10.6%	81.2%	2.5%	16.2%	80.0%	5.2%	14.7%	-1.5%	105.7%	-9.3%
8101001	-4.5%	71.9%	-16.5%	66.9%	6.4%	26.7%	65.8%	11.3%	22.9%	-1.7%	76.8%	-14.1%
8101002	-2.5%	57.2%	-27.6%	60.6%	12.9%	26.4%	60.0%	20.6%	19.4%	-1.1%	59.5%	-26.6%
8101003	-4.6%	50.0%	-13.2%	63.0%	8.5%	28.5%	61.5%	13.1%	25.3%	-2.3%	53.7%	-11.1%

Block Group	Projected % Change White	Projected % Change Black	Projected % Change Other	Estimated % Total White	Estimated % Total Black	Estimated % Total Other	Projected % Total White	Projected % Total Black	Projected % Total Other	% Change Total White	% Change Total Black	% Change Total Other
8101004	-2.7%	66.7%	-11.3%	72.5%	5.5%	22.1%	71.1%	9.2%	19.7%	-1.9%	68.1%	-10.5%
8101005	-2.3%	93.1%	-19.1%	68.7%	6.5%	24.8%	67.4%	12.5%	20.1%	-2.0%	93.8%	-18.8%
8102001	0.0%	66.8%	-48.8%	27.4%	28.9%	43.8%	27.9%	49.2%	22.9%	2.1%	70.3%	-47.7%
8102002	-0.5%	69.3%	-25.3%	31.5%	19.7%	48.8%	31.0%	32.9%	36.1%	-1.7%	67.4%	-26.1%
8102003	-1.6%	54.5%	-45.3%	29.8%	29.4%	40.8%	30.2%	46.8%	23.0%	1.3%	59.1%	-43.6%
8102004	-1.5%	63.3%	-38.6%	44.0%	20.6%	35.4%	43.8%	34.1%	22.0%	-0.3%	65.4%	-37.8%
8102005	-2.9%	84.1%	-13.8%	64.9%	6.5%	28.7%	63.2%	12.0%	24.8%	-2.5%	84.9%	-13.5%
8102006	-2.1%	59.2%	-31.8%	51.4%	16.9%	31.7%	50.9%	27.2%	21.9%	-0.9%	61.1%	-31.0%
8103011	-2.0%	76.0%	-28.7%	49.4%	14.1%	36.4%	48.8%	25.0%	26.2%	-1.3%	77.3%	-28.2%
8103012	-3.2%	78.6%	-32.2%	39.0%	16.5%	44.5%	38.7%	30.3%	31.0%	-0.6%	83.4%	-30.4%
8103013	-2.7%	63.5%	-30.0%	47.0%	15.8%	37.2%	46.9%	26.5%	26.6%	-0.3%	67.5%	-28.3%
8103014	-1.8%	65.9%	-35.7%	47.8%	17.9%	34.4%	47.6%	30.0%	22.4%	-0.5%	68.2%	-34.8%
8103021	-2.3%	73.6%	-39.8%	52.8%	16.2%	31.0%	52.4%	28.5%	19.0%	-0.6%	76.5%	-38.8%
8103022	-3.0%	69.0%	-41.7%	56.7%	15.7%	27.6%	56.4%	27.2%	16.5%	-0.6%	73.1%	-40.3%
8103023	-3.6%	60.7%	-28.9%	55.5%	14.1%	30.4%	54.7%	23.2%	22.1%	-1.4%	64.4%	-27.3%
Total	-2.7%	69.8%	-16.0%	62.8%	8.3%	28.8%	61.4%	14.2%	24.3%	-2.2%	70.7%	-15.6%

Table 13: Birth Counts by Attendance Area and Kindergarten Cohort Year

Attendance Area	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Dawes	74	73	63	56	53	59	56	68	49	45	57
Dewey	194	166	167	154	150	152	123	135	125	134	111
Kingsley	101	93	79	93	100	78	68	80	70	76	84
Lincoln	194	204	170	178	174	171	160	145	119	123	90
Lincolnwood	62	57	54	64	58	62	72	56	60	51	42
Oakton	113	130	128	131	131	126	112	126	125	93	87
Orrington	50	50	54	48	38	43	42	41	38	32	42
Walker	92	95	101	115	122	103	86	96	90	89	99
Washington	77	80	68	60	72	65	55	64	58	50	63
Willard	78	67	52	70	72	59	85	48	58	47	36
Willard Is	11	8	8	8	7	8	5	5	3	6	12
Totals	1046	1023	944	977	977	926	864	864	795	746	723

Table 14: District Cohort Survival Ratios

Grades	High	Mid	Low	Snapshot
B-K	0.921183	0.891826	0.856694	0.805556
K-1	0.999086	0.991301	0.987275	0.995098
1-2	0.983043	0.970786	0.96303	0.935638
2-3	1.000094	0.977474	0.974657	0.95119
3-4	1.003307	0.992059	0.983751	0.957944
4-5	0.997646	0.979146	0.970906	0.941176
5-6	0.99745	0.99109	0.982371	0.970787
6-7	0.987727	0.981503	0.971953	0.959908
7-8	0.990915	0.985688	0.977283	0.967842
8-9	0.072475	0.067871	0.062196	0.055236
9-10	0.089497	0.058792	0.044853	0.032258
10-11	1	0.916667	0.805556	1
11-12	1.055556	1	1	0.875

Table 15: Dawes Attendance Area Resident Enrollments and Projections

Dawes Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	74	73	63	56	53	59	56	68	49	45	57	48	46	44	42	40	38
K	77	70	71	68	62	58	53	80	57	53	67	56	54	51	49	47	45
1	77	76	69	69	65	60	57	52	78	56	52	66	55	53	50	48	46
2	79	82	72	70	69	64	52	57	52	78	56	52	66	55	53	50	48
3	72	85	88	75	72	65	57	54	60	54	82	59	54	69	58	56	52
4	74	77	86	88	74	74	65	58	55	61	55	83	60	55	70	59	57
5	75	73	81	89	85	74	68	67	60	57	63	57	85	62	57	72	61
6	82	74	72	76	89	86	74	68	67	60	57	63	57	85	62	57	72
7	58	87	71	72	76	91	86	75	69	68	60	57	63	57	86	62	57
8	60	54	89	71	73	75	92	87	76	70	69	61	58	64	58	87	63
Total K-5	454	463	467	459	427	395	352	368	362	359	375	373	374	345	337	332	309
Total K-8	654	678	699	678	665	647	604	598	574	557	561	554	552	551	543	538	501
Dawes Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	74	73	63	56	53	59	56	68	49	45	57	48	46	44	42	40	38
K	77	70	71	68	62	58	53	74	54	49	62	52	50	48	46	44	42
1	77	76	69	69	65	60	57	52	72	53	48	60	51	49	47	45	43
2	79	82	72	70	69	64	52	56	51	70	52	47	59	50	48	46	44
3	72	85	88	75	72	65	57	52	56	51	70	52	47	59	50	48	46
4	74	77	86	88	74	74	65	57	52	56	51	70	52	47	59	50	48
5	75	73	81	89	85	74	68	65	57	52	56	51	70	52	47	59	50
6	82	74	72	76	89	86	74	68	65	57	52	56	51	70	52	47	59
7	58	87	71	72	76	91	86	74	68	65	57	52	56	51	70	52	47
8	60	54	89	71	73	75	92	87	75	69	66	57	52	56	51	71	52
Total K-5	454	463	467	459	427	395	352	356	342	331	339	332	329	305	297	292	273
Total K-8	654	678	699	678	665	647	604	585	550	522	514	497	488	482	470	462	431

Dawes Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	74	73	63	56	53	59	56	68	49	45	57	48	46	44	42	40	38
K	77	70	71	68	62	58	53	69	50	46	58	49	47	45	43	41	39
1	77	76	69	69	65	60	57	51	67	48	44	56	47	45	43	42	40
2	79	82	72	70	69	64	52	53	48	63	45	41	52	44	42	40	39
3	72	85	88	75	72	65	57	50	51	46	60	43	39	50	42	40	38
4	74	77	86	88	74	74	65	57	50	51	46	60	43	39	50	42	40
5	75	73	81	89	85	74	68	63	55	48	49	44	58	41	38	48	40
6	82	74	72	76	89	86	74	66	61	54	47	48	43	57	40	37	47
7	58	87	71	72	76	91	86	73	65	60	53	46	47	42	56	39	37
8	60	54	89	71	73	75	92	86	73	65	60	53	46	47	42	56	39
Total K-5	454	463	467	459	427	395	352	343	321	302	302	293	286	264	258	253	236
Total K-8	654	678	699	678	665	647	604	568	520	481	462	440	422	410	396	385	359
Dawes Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	74	73	63	56	53	59	56	68	49	45	57	48	46	44	42	40	38
K	77	70	71	68	62	58	53	64	46	43	54	45	43	42	40	38	36
1	77	76	69	69	65	60	57	52	63	45	42	53	44	42	41	39	37
2	79	82	72	70	69	64	52	49	45	55	39	36	46	38	36	36	34
3	72	85	88	75	72	65	57	46	44	40	49	35	32	41	34	32	32
4	74	77	86	88	74	74	65	57	46	44	40	49	35	32	41	34	32
5	75	73	81	89	85	74	68	60	52	42	40	37	45	32	29	38	31
6	82	74	72	76	89	86	74	68	60	52	42	40	37	45	32	29	38
7	58	87	71	72	76	91	86	74	68	60	52	42	40	37	45	32	29
8	60	54	89	71	73	75	92	87	75	69	61	53	42	40	37	45	32
Total K-5	454	463	467	459	427	395	352	328	296	269	264	255	245	227	221	217	202
Total K-8	654	678	699	678	665	647	604	557	499	450	419	390	364	349	335	323	301

Table 16: Dewey Attendance Area Resident Enrollments and Projections

Dewey Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	166	167	154	150	152	123	135	125	134	111	106	100	93	86	80	73
K	93	93	111	82	94	78	73	85	79	84	70	67	63	58	54	50	46
1	85	95	92	105	82	90	79	73	85	79	84	70	67	63	58	54	50
2	99	91	79	96	94	78	78	76	70	82	76	81	67	65	61	56	52
3	80	96	88	83	84	86	70	76	74	68	80	74	79	65	64	60	55
4	102	77	87	84	78	78	79	66	72	70	64	75	70	74	61	60	56
5	79	98	82	85	81	73	72	79	66	72	70	64	75	70	74	61	60
6	85	75	88	80	85	80	75	72	79	66	72	70	64	75	70	74	61
7	73	83	73	90	73	81	76	74	71	78	65	71	69	63	74	69	73
8	63	71	84	76	92	69	75	78	76	73	80	67	73	71	65	76	71
Total K-5	538	550	539	535	513	483	451	455	446	455	444	431	421	395	372	341	319
Total K-8	759	779	784	781	763	713	677	679	672	672	661	639	627	604	581	560	524
Dewey Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	166	167	154	150	152	123	135	125	134	111	106	100	93	86	80	73
K	93	93	111	82	94	78	73	79	73	78	65	62	58	54	50	47	43
1	85	95	92	105	82	90	79	72	78	72	77	64	61	57	53	49	46
2	99	91	79	96	94	78	78	71	65	71	65	70	58	55	52	48	44
3	80	96	88	83	84	86	70	72	66	60	66	60	65	54	51	48	44
4	102	77	87	84	78	78	79	65	67	61	56	61	56	60	50	47	45
5	79	98	82	85	81	73	72	76	62	64	59	54	59	54	58	48	45
6	85	75	88	80	85	80	75	71	75	61	63	58	53	58	53	57	47
7	73	83	73	90	73	81	76	72	68	72	58	60	56	51	56	51	55
8	63	71	84	76	92	69	75	75	72	68	72	58	60	56	51	56	51
Total K-5	538	550	539	535	513	483	451	435	411	406	388	371	357	334	314	287	267
Total K-8	759	779	784	781	763	713	677	653	626	607	581	547	526	499	474	451	420

Dewey Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	166	167	154	150	152	123	135	125	134	111	106	100	93	86	80	73
K	93	93	111	82	94	78	73	74	68	73	61	58	54	51	47	44	40
1	85	95	92	105	82	90	79	70	71	66	70	59	56	52	49	45	42
2	99	91	79	96	94	78	78	68	61	61	57	61	51	48	45	42	39
3	80	96	88	83	84	86	70	70	61	55	55	51	55	46	43	40	38
4	102	77	87	84	78	78	79	64	64	56	50	50	47	50	42	39	37
5	79	98	82	85	81	73	72	74	60	60	53	47	47	44	47	40	37
6	85	75	88	80	85	80	75	69	71	57	57	51	45	45	42	45	38
7	73	83	73	90	73	81	76	70	65	67	53	53	48	42	42	39	42
8	63	71	84	76	92	69	75	73	67	62	64	51	51	46	40	40	37
Total K-5	538	550	539	535	513	483	451	420	385	371	346	326	310	291	273	250	233
Total K-8	759	779	784	781	763	713	677	632	588	557	520	481	454	424	397	374	350
Dewey Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	166	167	154	150	152	123	135	125	134	111	106	100	93	86	80	73
K	93	93	111	82	94	78	73	80	74	80	66	63	59	55	51	47	43
1	85	95	92	105	82	90	79	74	81	75	81	67	64	60	56	52	48
2	99	91	79	96	94	78	78	68	64	70	65	70	58	55	52	49	45
3	80	96	88	83	84	86	70	70	61	57	63	58	63	52	49	47	44
4	102	77	87	84	78	78	79	64	64	56	52	58	53	58	48	45	43
5	79	98	82	85	81	73	72	73	59	59	52	48	54	49	54	44	42
6	85	75	88	80	85	80	75	74	75	61	61	53	49	55	50	55	45
7	73	83	73	90	73	81	76	71	70	71	58	58	50	47	52	48	52
8	63	71	84	76	92	69	75	70	66	65	66	54	54	46	44	48	44
Total K-5	538	550	539	535	513	483	451	429	403	397	379	364	351	329	310	284	265
Total K-8	759	779	784	781	763	713	677	644	614	594	564	529	504	477	456	435	406

Table 17: Kingsley Attendance Area Resident Enrollments and Projections

Kingsley Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	101	93	79	93	100	78	68	80	70	76	84	71	69	67	64	62	60
K	104	96	78	85	84	82	69	81	71	77	85	72	70	68	65	63	61
1	92	105	99	85	88	86	80	73	85	75	81	89	76	74	72	68	66
2	94	93	102	100	86	84	78	80	73	85	75	81	89	76	74	72	68
3	91	104	104	107	102	83	76	83	85	78	90	80	86	95	81	79	76
4	104	92	104	110	101	101	81	77	84	86	79	91	81	87	97	82	80
5	86	104	94	102	107	100	97	81	77	84	86	79	91	81	87	97	82
6	104	89	101	92	97	103	99	95	79	75	82	84	77	89	79	85	95
7	96	101	90	102	86	98	94	100	96	80	76	83	85	78	90	80	86
8	96	97	99	92	100	84	94	93	99	95	80	76	83	85	78	89	80
Total K-5	571	594	581	589	568	536	481	475	475	485	496	492	493	481	476	461	433
Total K-8	867	881	871	875	851	821	768	763	749	735	734	735	738	733	723	715	694
Kingsley Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	101	93	79	93	100	78	68	80	70	76	84	71	69	67	64	62	60
K	104	96	78	85	84	82	69	78	68	74	82	69	67	65	63	60	58
1	92	105	99	85	88	86	80	71	80	70	76	84	71	69	67	65	62
2	94	93	102	100	86	84	78	78	69	78	69	74	82	69	68	66	64
3	91	104	104	107	102	83	76	79	79	70	79	70	75	83	70	69	67
4	104	92	104	110	101	101	81	75	78	78	69	78	69	74	82	69	68
5	86	104	94	102	107	100	97	79	74	77	77	68	77	68	73	80	68
6	104	89	101	92	97	103	99	94	77	72	75	75	66	75	66	71	78
7	96	101	90	102	86	98	94	98	93	76	71	74	74	65	74	65	70
8	96	97	99	92	100	84	94	92	96	91	74	70	72	72	64	72	64
Total K-5	571	594	581	589	568	536	481	460	448	447	452	443	441	428	423	409	387
Total K-8	867	881	871	875	851	821	768	744	714	686	672	662	653	640	627	617	599

Kingsley Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	101	93	79	93	100	78	68	80	70	76	84	71	69	67	64	62	60
K	104	96	78	85	84	82	69	73	64	69	77	65	63	61	59	57	55
1	92	105	99	85	88	86	80	70	74	65	70	78	66	64	62	60	58
2	94	93	102	100	86	84	78	76	66	70	61	66	74	62	60	59	57
3	91	104	104	107	102	83	76	75	73	64	67	59	64	71	60	58	57
4	104	92	104	110	101	101	81	74	73	71	62	65	57	62	69	58	56
5	86	104	94	102	107	100	97	79	72	71	69	60	63	55	60	67	56
6	104	89	101	92	97	103	99	93	76	69	68	66	58	61	53	58	64
7	96	101	90	102	86	98	94	94	89	72	66	65	63	55	58	50	55
8	96	97	99	92	100	84	94	91	91	87	70	64	63	61	53	56	49
Total K-5	571	594	581	589	568	536	481	447	422	410	406	393	387	375	370	359	339
Total K-8	867	881	871	875	851	821	768	725	678	638	610	588	571	552	534	523	507
Kingsley Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	101	93	79	93	100	78	68	80	70	76	84	71	69	67	64	62	60
K	104	96	78	85	84	82	69	81	71	77	85	72	70	67	65	63	61
1	92	105	99	85	88	86	80	67	79	69	75	83	70	68	65	63	61
2	94	93	102	100	86	84	78	73	61	72	63	68	75	63	62	59	57
3	91	104	104	107	102	83	76	71	66	55	65	57	62	68	57	56	53
4	104	92	104	110	101	101	81	74	69	64	54	63	56	61	66	56	55
5	86	104	94	102	107	100	97	78	71	66	61	52	61	54	59	63	54
6	104	89	101	92	97	103	99	96	77	70	65	60	51	60	53	58	62
7	96	101	90	102	86	98	94	90	88	70	64	59	55	47	55	48	53
8	96	97	99	92	100	84	94	90	86	84	67	61	57	53	45	53	46
Total K-5	571	594	581	589	568	536	481	444	417	403	403	395	394	381	374	360	341
Total K-8	867	881	871	875	851	821	768	720	668	627	599	575	557	541	527	519	502

Table 18: Lincoln Attendance Area Resident Enrollments and Projections

Lincoln Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	204	170	178	174	171	160	145	119	123	90	98	89	79	69	59	49
K	137	115	115	113	122	105	82	97	80	83	60	66	59	53	46	40	33
1	138	135	114	117	119	107	103	84	99	82	85	61	67	60	54	47	41
2	140	131	128	114	120	116	97	103	84	99	82	85	61	67	60	54	47
3	114	142	122	129	108	103	110	94	100	81	96	79	82	59	65	58	52
4	133	109	136	118	134	134	95	119	102	108	88	104	85	89	64	70	63
5	100	128	102	130	109	129	110	90	113	97	103	84	99	81	85	61	67
6	103	104	124	112	134	112	116	116	95	119	102	108	88	104	85	89	64
7	94	102	103	123	113	130	115	117	117	96	120	103	109	89	105	86	90
8	78	96	100	98	123	116	126	115	117	117	96	120	103	109	89	105	86
Total K-5	762	760	717	721	712	694	597	587	578	550	514	479	453	409	374	330	303
Total K-8	1037	1062	1044	1054	1082	1052	954	935	907	882	832	810	753	711	653	610	543
Lincoln Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	204	170	178	174	171	160	145	119	123	90	98	89	79	69	59	49
K	137	115	115	113	122	105	82	93	76	79	58	63	57	51	44	38	32
1	138	135	114	117	119	107	103	82	93	76	79	58	63	57	51	44	38
2	140	131	128	114	120	116	97	100	80	91	74	77	57	61	56	50	43
3	114	142	122	129	108	103	110	91	94	75	86	70	73	54	57	53	47
4	133	109	136	118	134	134	95	109	90	93	74	85	69	72	53	56	52
5	100	128	102	130	109	129	110	89	102	84	87	69	80	65	68	50	53
6	103	104	124	112	134	112	116	111	90	103	85	88	70	81	66	69	50
7	94	102	103	123	113	130	115	116	111	90	103	85	88	70	81	66	69
8	78	96	100	98	123	116	126	113	114	109	88	101	84	87	69	80	65
Total K-5	762	760	717	721	712	694	597	564	535	498	458	422	399	360	329	291	265
Total K-8	1037	1062	1044	1054	1082	1052	954	904	850	800	734	696	641	598	545	506	449

Lincoln Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	204	170	178	174	171	160	145	119	123	90	98	89	79	69	59	49
K	137	115	115	113	122	105	82	85	70	72	53	58	52	46	40	35	29
1	138	135	114	117	119	107	103	78	81	66	68	50	55	49	44	38	33
2	140	131	128	114	120	116	97	97	74	76	62	64	47	52	46	41	36
3	114	142	122	129	108	103	110	88	88	68	69	57	58	43	47	42	37
4	133	109	136	118	134	134	95	104	84	84	65	65	54	55	41	45	40
5	100	128	102	130	109	129	110	85	93	75	75	58	58	48	49	37	40
6	103	104	124	112	134	112	116	106	82	90	72	72	56	56	46	47	36
7	94	102	103	123	113	130	115	114	104	81	89	71	71	55	55	45	46
8	78	96	100	98	123	116	126	111	110	101	78	86	69	69	53	53	44
Total K-5	762	760	717	721	712	694	597	537	490	441	392	352	324	293	267	238	215
Total K-8	1037	1062	1044	1054	1082	1052	954	868	786	713	631	581	520	473	421	383	341
Lincoln Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	194	204	170	178	174	171	160	145	119	123	90	98	89	79	69	59	49
K	137	115	115	113	122	105	82	74	61	63	46	50	45	40	35	30	25
1	138	135	114	117	119	107	103	80	73	60	62	45	49	44	39	34	29
2	140	131	128	114	120	116	97	93	73	66	54	56	41	44	40	35	31
3	114	142	122	129	108	103	110	92	88	69	63	51	53	39	42	38	33
4	133	109	136	118	134	134	95	101	85	81	64	58	47	49	36	39	35
5	100	128	102	130	109	129	110	78	83	70	66	53	48	39	40	30	32
6	103	104	124	112	134	112	116	99	70	75	63	59	48	43	35	36	27
7	94	102	103	123	113	130	115	119	102	72	77	65	61	49	44	36	37
8	78	96	100	98	123	116	126	111	115	99	70	75	63	59	47	43	35
Total K-5	762	760	717	721	712	694	597	518	463	409	355	313	283	255	232	206	185
Total K-8	1037	1062	1044	1054	1082	1052	954	847	750	655	565	512	455	406	358	321	284

Table 19: Lincolnwood Attendance Area Resident Enrollments and Projections

Lincolnwood Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	62	57	54	64	58	62	72	56	60	51	42	52	51	50	49	48	47
K	94	91	81	113	96	84	69	92	98	84	69	85	84	82	81	79	77
1	92	97	90	84	107	98	84	70	94	100	86	70	87	86	84	83	81
2	96	88	98	88	82	105	91	83	69	93	99	85	69	86	85	83	82
3	106	102	93	99	86	80	99	92	84	70	94	100	86	70	87	86	84
4	80	104	102	98	95	95	78	104	97	88	74	99	105	91	74	92	91
5	107	75	109	99	95	97	78	79	105	98	89	75	100	106	92	75	93
6	90	116	82	112	98	88	94	81	82	109	102	92	78	104	110	95	78
7	75	88	115	88	113	98	82	97	83	84	112	105	95	80	107	113	98
8	99	72	91	114	87	110	97	82	97	83	84	113	106	95	80	108	114
Total K-5	575	557	573	581	561	559	499	520	547	533	511	514	531	521	503	498	508
Total K-8	839	833	861	895	859	855	772	780	809	809	809	824	810	800	800	814	798
Lincolnwood Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	62	57	54	64	58	62	72	56	60	51	42	52	51	50	49	48	47
K	94	91	81	113	96	84	69	84	90	77	63	78	77	75	74	72	71
1	92	97	90	84	107	98	84	69	84	90	77	63	78	77	75	74	72
2	96	88	98	88	82	105	91	82	68	82	88	75	62	76	75	73	72
3	106	102	93	99	86	80	99	90	81	67	81	87	74	61	75	74	72
4	80	104	102	98	95	95	78	100	91	82	68	82	88	75	62	76	75
5	107	75	109	99	95	97	78	77	99	90	81	67	81	87	74	61	75
6	90	116	82	112	98	88	94	78	77	99	90	81	67	81	87	74	61
7	75	88	115	88	113	98	82	94	78	77	99	90	81	67	81	87	74
8	99	72	91	114	87	110	97	81	93	77	76	98	89	80	66	80	86
Total K-5	575	557	573	581	561	559	499	502	513	488	458	452	460	451	435	430	437
Total K-8	839	833	861	895	859	855	772	755	761	741	723	721	697	679	669	671	658

Lincolnwood Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	62	57	54	64	58	62	72	56	60	51	42	52	51	50	49	48	47
K	94	91	81	113	96	84	69	71	76	65	53	66	65	64	62	61	60
1	92	97	90	84	107	98	84	68	69	74	64	52	65	64	63	61	60
2	96	88	98	88	82	105	91	81	65	66	71	61	50	62	61	61	59
3	106	102	93	99	86	80	99	88	78	63	64	69	59	48	60	59	59
4	80	104	102	98	95	95	78	97	86	76	62	63	67	58	47	59	58
5	107	75	109	99	95	97	78	72	89	79	70	57	58	62	53	43	54
6	90	116	82	112	98	88	94	75	69	86	76	67	55	56	60	51	41
7	75	88	115	88	113	98	82	92	73	67	84	74	65	54	55	58	50
8	99	72	91	114	87	110	97	81	91	72	66	83	73	64	53	54	57
Total K-5	575	557	573	581	561	559	499	477	463	423	384	368	364	358	346	344	350
Total K-8	839	833	861	895	859	855	772	725	696	648	610	592	557	532	514	507	498
Lincolnwood Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	62	57	54	64	58	62	72	56	60	51	42	52	51	50	49	48	47
K	94	91	81	113	96	84	69	54	58	49	40	50	49	48	47	46	45
1	92	97	90	84	107	98	84	69	54	58	49	40	50	49	48	47	46
2	96	88	98	88	82	105	91	78	64	50	54	46	37	46	46	45	44
3	106	102	93	99	86	80	99	86	74	60	47	51	43	35	43	43	42
4	80	104	102	98	95	95	78	97	84	72	59	46	50	42	34	42	42
5	107	75	109	99	95	97	78	64	80	69	59	48	38	41	34	28	34
6	90	116	82	112	98	88	94	76	62	78	67	57	47	37	40	33	27
7	75	88	115	88	113	98	82	88	71	58	73	62	53	44	34	37	31
8	99	72	91	114	87	110	97	81	87	70	57	72	61	52	44	34	37
Total K-5	575	557	573	581	561	559	499	448	414	358	308	281	267	261	252	251	253
Total K-8	839	833	861	895	859	855	772	693	634	564	505	472	428	394	370	355	348

Table 20: Oakton Attendance Area Resident Enrollments and Projections

Oakton Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	113	130	128	131	131	126	112	126	125	93	87	101	98	95	93	90	87
K	102	94	96	103	77	110	86	102	101	75	70	82	79	77	75	73	70
1	97	108	86	94	94	71	110	83	99	98	73	68	79	76	74	73	71
2	96	98	106	84	98	86	64	110	83	99	98	73	68	79	76	74	73
3	91	101	88	109	84	94	85	64	111	83	100	99	73	68	79	76	74
4	105	100	102	94	108	108	97	96	72	125	94	113	112	82	77	89	86
5	106	105	106	114	91	102	87	102	101	75	131	99	118	117	86	81	93
6	117	118	100	107	114	91	107	89	104	103	76	134	101	120	119	88	83
7	89	114	115	90	102	106	86	102	85	100	99	73	128	97	115	114	84
8	95	86	107	99	85	102	100	83	98	82	96	95	70	123	93	111	110
Total K-5	597	606	584	598	552	571	529	557	567	555	566	534	529	499	467	466	467
Total K-8	898	924	906	894	853	870	822	831	854	840	837	836	828	839	794	779	744
Oakton Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	113	130	128	131	131	126	112	126	125	93	87	101	98	95	93	90	87
K	102	94	96	103	77	110	86	97	96	71	67	78	75	73	71	69	67
1	97	108	86	94	94	71	110	81	91	90	67	63	73	70	69	67	65
2	96	98	106	84	98	86	64	105	78	87	86	64	60	70	67	66	64
3	91	101	88	109	84	94	85	63	103	77	85	84	63	59	69	66	65
4	105	100	102	94	108	108	97	88	65	107	80	88	87	65	61	72	68
5	106	105	106	114	91	102	87	96	87	64	106	79	87	86	64	60	71
6	117	118	100	107	114	91	107	87	96	87	64	106	79	87	86	64	60
7	89	114	115	90	102	106	86	101	82	91	82	60	100	74	82	81	60
8	95	86	107	99	85	102	100	81	95	77	86	77	57	94	70	77	76
Total K-5	597	606	584	598	552	571	529	530	520	496	491	456	445	423	401	400	400
Total K-8	898	924	906	894	853	870	822	799	793	751	723	699	681	678	639	622	596

Oakton Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	113	130	128	131	131	126	112	126	125	93	87	101	98	95	93	90	87
K	102	94	96	103	77	110	86	88	88	65	61	71	69	67	65	63	61
1	97	108	86	94	94	71	110	79	81	81	60	56	65	63	61	60	58
2	96	98	106	84	98	86	64	102	74	75	75	56	52	61	59	57	56
3	91	101	88	109	84	94	85	61	97	70	71	71	53	49	58	56	54
4	105	100	102	94	108	108	97	86	62	98	71	72	72	54	50	59	57
5	106	105	106	114	91	102	87	88	78	56	89	64	65	65	49	45	53
6	117	118	100	107	114	91	107	86	87	77	55	88	63	64	64	48	44
7	89	114	115	90	102	106	86	99	80	80	71	51	81	58	59	59	44
8	95	86	107	99	85	102	100	79	91	73	73	65	47	74	53	54	54
Total K-5	597	606	584	598	552	571	529	504	480	445	427	390	376	359	342	340	339
Total K-8	898	924	906	894	853	870	822	768	738	675	626	594	567	555	518	501	481
Oakton Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	113	130	128	131	131	126	112	126	125	93	87	101	98	95	93	90	87
K	102	94	96	103	77	110	86	97	96	71	67	78	75	73	71	69	67
1	97	108	86	94	94	71	110	86	97	96	71	67	78	75	73	71	69
2	96	98	106	84	98	86	64	99	78	87	87	64	60	70	68	66	64
3	91	101	88	109	84	94	85	63	98	77	86	86	63	59	69	67	65
4	105	100	102	94	108	108	97	88	65	101	79	89	89	65	61	71	69
5	106	105	106	114	91	102	87	78	71	52	81	64	72	72	52	49	57
6	117	118	100	107	114	91	107	91	82	74	55	85	67	76	76	55	51
7	89	114	115	90	102	106	86	101	86	77	70	52	80	63	72	72	52
8	95	86	107	99	85	102	100	81	95	81	73	66	49	75	59	68	68
Total K-5	597	606	584	598	552	571	529	511	505	484	471	448	437	414	394	393	391
Total K-8	898	924	906	894	853	870	822	784	768	716	669	651	633	628	601	588	562

Table 21: Orrington Attendance Area Resident Enrollments and Projections

Orrington Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	50	50	54	48	38	43	42	41	38	32	42	34	33	31	30	28	26
K	52	53	74	63	49	39	37	54	50	42	56	45	43	41	39	37	35
1	50	53	60	69	69	52	39	41	59	55	46	61	49	47	45	43	41
2	74	50	62	64	62	65	49	41	43	63	58	49	65	52	50	48	46
3	45	73	45	62	61	63	63	49	41	43	63	58	49	65	52	50	48
4	50	45	73	43	60	60	62	62	48	41	43	62	57	48	64	51	49
5	52	48	44	67	38	57	57	59	59	46	39	41	59	55	46	61	49
6	63	52	46	43	64	35	56	55	57	57	45	38	40	57	53	45	59
7	56	61	55	43	43	64	33	57	56	58	58	46	39	41	58	54	46
8	50	57	59	54	42	42	63	32	56	55	57	57	45	38	40	57	53
Total K-5	323	322	358	368	339	336	307	306	300	290	305	316	322	308	296	290	268
Total K-8	492	492	518	508	488	477	459	450	469	460	465	457	446	444	447	446	426
Orrington Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	50	50	54	48	38	43	42	41	38	32	42	34	33	31	30	28	26
K	52	53	74	63	49	39	37	48	44	37	49	40	38	36	35	33	31
1	50	53	60	69	69	52	39	39	51	46	39	52	42	40	38	37	35
2	74	50	62	64	62	65	49	38	38	50	45	38	51	41	39	37	36
3	45	73	45	62	61	63	63	48	37	37	49	44	37	50	40	38	36
4	50	45	73	43	60	60	62	62	47	36	36	48	43	36	49	39	37
5	52	48	44	67	38	57	57	58	58	44	34	34	45	40	34	46	37
6	63	52	46	43	64	35	56	55	56	56	42	33	33	43	39	33	44
7	56	61	55	43	43	64	33	55	54	55	55	41	32	32	42	38	32
8	50	57	59	54	42	42	63	32	54	53	54	54	40	31	31	41	37
Total K-5	323	322	358	368	339	336	307	293	275	250	252	256	256	243	235	230	212
Total K-8	492	492	518	508	488	477	459	435	439	414	403	384	361	349	347	342	325

Orrington Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	50	50	54	48	38	43	42	41	38	32	42	34	33	31	30	28	26
K	52	53	74	63	49	39	37	42	39	33	43	35	33	32	30	29	27
1	50	53	60	69	69	52	39	37	42	39	33	43	35	33	32	30	29
2	74	50	62	64	62	65	49	36	34	39	36	31	40	32	31	30	28
3	45	73	45	62	61	63	63	46	34	32	37	34	29	38	30	29	28
4	50	45	73	43	60	60	62	61	45	33	31	36	33	28	37	29	28
5	52	48	44	67	38	57	57	57	56	41	30	28	33	30	26	34	27
6	63	52	46	43	64	35	56	54	54	53	39	28	26	31	28	25	32
7	56	61	55	43	43	64	33	54	52	52	51	37	27	25	30	27	24
8	50	57	59	54	42	42	63	32	53	51	51	50	36	26	24	29	26
Total K-5	323	322	358	368	339	336	307	279	250	217	210	207	203	193	186	181	167
Total K-8	492	492	518	508	488	477	459	419	409	373	351	322	292	275	268	262	249
Orrington Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	50	50	54	48	38	43	42	41	38	32	42	34	33	31	30	28	26
K	52	53	74	63	49	39	37	36	33	28	37	30	29	27	26	25	23
1	50	53	60	69	69	52	39	37	36	33	28	37	30	29	27	26	25
2	74	50	62	64	62	65	49	37	35	34	31	26	35	28	27	25	25
3	45	73	45	62	61	63	63	47	36	34	33	30	25	34	27	26	24
4	50	45	73	43	60	60	62	62	46	35	33	32	30	25	33	27	26
5	52	48	44	67	38	57	57	59	59	44	33	31	30	29	24	31	26
6	63	52	46	43	64	35	56	56	58	58	43	32	30	29	28	24	30
7	56	61	55	43	43	64	33	53	53	55	55	41	30	28	27	26	23
8	50	57	59	54	42	42	63	32	52	52	54	54	40	30	28	27	26
Total K-5	323	322	358	368	339	336	307	278	245	208	195	186	179	172	164	160	149
Total K-8	492	492	518	508	488	477	459	419	408	373	347	313	279	259	247	237	228

Table 22: Walker Attendance Area Resident Enrollments and Projections

Walker Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	92	95	101	115	122	103	86	96	90	89	99	94	93	92	91	90	89
K	105	94	107	111	108	94	86	97	91	90	100	94	94	93	92	91	90
1	101	107	101	103	104	107	94	88	99	93	92	102	96	96	95	94	93
2	87	102	106	99	99	99	112	95	89	100	94	93	103	97	97	96	95
3	100	95	105	108	102	98	94	115	97	91	103	96	95	106	100	100	99
4	78	104	94	102	111	111	91	97	119	100	94	107	99	98	110	104	104
5	102	79	107	92	104	104	97	92	98	120	101	95	108	100	99	111	105
6	95	103	79	108	91	110	101	99	94	100	123	103	97	110	102	101	113
7	98	97	105	75	104	91	104	100	98	93	99	122	102	96	109	101	100
8	85	98	101	102	76	99	85	105	101	99	94	100	123	103	97	110	102
Total K-5	573	581	620	615	628	613	574	584	593	594	584	587	595	590	593	596	586
Total K-8	851	879	905	900	899	913	864	888	886	886	900	912	917	899	901	908	901
Walker Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	92	95	101	115	122	103	86	96	90	89	99	94	93	92	91	90	89
K	105	94	107	111	108	94	86	92	86	85	95	90	89	88	87	87	86
1	101	107	101	103	104	107	94	85	91	85	84	94	89	88	87	86	86
2	87	102	106	99	99	99	112	92	83	89	83	82	92	87	86	85	84
3	100	95	105	108	102	98	94	113	93	84	90	84	83	93	88	87	86
4	78	104	94	102	111	111	91	94	113	93	84	90	84	83	93	88	87
5	102	79	107	92	104	104	97	89	92	111	91	82	88	82	81	91	86
6	95	103	79	108	91	110	101	97	89	92	111	91	82	88	82	81	91
7	98	97	105	75	104	91	104	98	94	86	89	108	88	80	85	80	79
8	85	98	101	102	76	99	85	102	96	92	84	87	106	86	78	83	78
Total K-5	573	581	620	615	628	613	574	565	558	547	527	522	525	521	522	524	515
Total K-8	851	879	905	900	899	913	864	862	837	817	811	808	801	775	767	768	763

Walker Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	92	95	101	115	122	103	86	96	90	89	99	94	93	92	91	90	89
K	105	94	107	111	108	94	86	88	83	82	91	86	85	85	84	83	82
1	101	107	101	103	104	107	94	83	85	80	79	88	83	82	82	81	80
2	87	102	106	99	99	99	112	91	80	82	77	76	85	80	79	79	78
3	100	95	105	108	102	98	94	110	90	79	81	76	75	84	79	78	78
4	78	104	94	102	111	111	91	91	106	87	76	78	73	72	81	76	75
5	102	79	107	92	104	104	97	85	85	99	81	71	73	68	67	75	71
6	95	103	79	108	91	110	101	96	84	84	98	80	70	72	67	66	74
7	98	97	105	75	104	91	104	96	91	80	80	93	76	67	69	64	63
8	85	98	101	102	76	99	85	99	91	87	76	76	89	72	64	66	61
Total K-5	573	581	620	615	628	613	574	548	529	509	485	475	474	471	472	472	464
Total K-8	851	879	905	900	899	913	864	839	795	760	739	724	709	682	672	668	662
Walker Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	92	95	101	115	122	103	86	96	90	89	99	94	93	92	91	90	89
K	105	94	107	111	108	94	86	96	90	89	99	94	93	92	91	90	89
1	101	107	101	103	104	107	94	86	96	90	89	99	94	93	92	91	90
2	87	102	106	99	99	99	112	98	90	100	94	93	104	98	97	96	95
3	100	95	105	108	102	98	94	106	93	85	95	89	88	99	93	92	91
4	78	104	94	102	111	111	91	87	98	86	79	88	83	82	92	86	85
5	102	79	107	92	104	104	97	80	76	86	75	69	77	73	72	80	75
6	95	103	79	108	91	110	101	94	78	74	84	73	67	75	71	70	78
7	98	97	105	75	104	91	104	95	89	74	70	79	69	63	71	67	66
8	85	98	101	102	76	99	85	97	89	83	69	65	74	64	59	66	63
Total K-5	573	581	620	615	628	613	574	553	543	536	531	532	539	537	537	535	525
Total K-8	851	879	905	900	899	913	864	839	799	767	754	749	749	739	738	738	732

Table 23: Washington Attendance Area Resident Enrollments and Projections

Washington Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	77	80	68	60	72	65	55	64	58	50	63	52	50	48	46	44	42
K	62	95	94	68	92	78	76	86	78	67	85	70	68	65	62	59	56
1	84	62	94	94	68	93	76	76	86	78	67	85	70	68	65	62	59
2	91	83	64	87	95	67	85	77	77	87	79	68	86	71	69	66	63
3	85	91	84	65	87	93	69	87	78	78	89	81	69	88	72	70	67
4	89	83	96	85	61	61	85	69	87	78	78	89	81	69	88	72	70
5	86	88	79	97	88	59	88	99	80	101	91	91	103	94	80	102	84
6	87	90	89	80	100	89	52	90	101	81	103	93	93	105	96	81	104
7	86	85	89	89	74	102	87	52	90	101	81	103	93	93	105	96	81
8	68	82	85	90	88	74	102	87	52	90	101	81	103	93	93	105	96
Total K-5	497	502	511	496	491	451	479	494	486	489	489	484	477	455	436	431	399
Total K-8	738	759	774	755	753	716	720	723	729	761	774	761	766	746	730	713	680
Washington Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	77	80	68	60	72	65	55	64	58	50	63	52	50	48	46	44	42
K	62	95	94	68	92	78	76	82	75	64	81	67	65	62	59	56	54
1	84	62	94	94	68	93	76	76	82	75	64	81	67	65	62	59	56
2	91	83	64	87	95	67	85	74	74	80	73	62	79	65	63	60	57
3	85	91	84	65	87	93	69	86	75	75	81	74	63	80	66	64	61
4	89	83	96	85	61	61	85	66	82	72	72	77	71	60	76	63	61
5	86	88	79	97	88	59	88	85	66	82	72	72	77	71	60	76	63
6	87	90	89	80	100	89	52	89	86	67	83	73	73	78	72	61	77
7	86	85	89	89	74	102	87	51	88	85	66	82	72	72	77	71	60
8	68	82	85	90	88	74	102	87	51	88	85	66	82	72	72	77	71
Total K-5	497	502	511	496	491	451	479	469	454	448	443	433	422	403	386	378	352
Total K-8	738	759	774	755	753	716	720	696	679	688	677	654	649	625	607	587	560

Washington Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	77	80	68	60	72	65	55	64	58	50	63	52	50	48	46	44	42
K	62	95	94	68	92	78	76	77	70	60	76	63	60	58	55	53	50
1	84	62	94	94	68	93	76	75	76	69	59	75	62	59	57	54	52
2	91	83	64	87	95	67	85	72	71	72	65	56	71	58	56	54	51
3	85	91	84	65	87	93	69	85	72	71	72	65	56	71	58	56	54
4	89	83	96	85	61	61	85	59	72	61	60	61	55	48	60	49	48
5	86	88	79	97	88	59	88	83	58	70	60	59	60	54	47	59	48
6	87	90	89	80	100	89	52	85	80	56	68	58	57	58	52	45	57
7	86	85	89	89	74	102	87	50	82	77	54	66	56	55	56	50	43
8	68	82	85	90	88	74	102	87	50	82	77	54	66	56	55	56	50
Total K-5	497	502	511	496	491	451	479	451	419	403	392	379	364	348	333	325	303
Total K-8	738	759	774	755	753	716	720	673	631	618	591	557	543	517	496	476	453
Washington Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	77	80	68	60	72	65	55	64	58	50	63	52	50	48	46	44	42
K	62	95	94	68	92	78	76	88	80	69	87	72	69	66	64	61	58
1	84	62	94	94	68	93	76	74	86	78	67	85	70	67	64	62	59
2	91	83	64	87	95	67	85	69	68	79	71	61	78	64	61	58	57
3	85	91	84	65	87	93	69	88	71	70	81	73	63	80	66	63	60
4	89	83	96	85	61	61	85	63	80	65	64	74	67	58	73	60	58
5	86	88	79	97	88	59	88	123	91	115	94	92	107	97	84	105	87
6	87	90	89	80	100	89	52	78	108	80	101	83	81	94	85	74	93
7	86	85	89	89	74	102	87	51	76	106	78	99	81	79	92	83	72
8	68	82	85	90	88	74	102	87	51	76	106	78	99	81	79	92	83
Total K-5	497	502	511	496	491	451	479	505	476	476	464	457	454	432	412	409	379
Total K-8	738	759	774	755	753	716	720	721	711	738	749	717	715	686	668	658	627

Table 24: Willard Attendance Area Resident Enrollments and Projections

Willard Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	78	67	52	70	72	59	85	48	58	47	36	45	42	39	36	34	31
K	78	86	65	55	61	66	46	51	62	50	39	48	45	42	39	36	33
1	75	75	89	71	54	58	68	48	54	65	53	41	51	47	44	41	38
2	76	75	74	91	68	51	63	70	50	56	67	55	42	53	48	45	42
3	73	75	70	76	87	70	53	65	72	52	58	69	57	43	55	50	46
4	70	74	73	69	73	73	69	52	64	71	51	57	68	56	42	54	49
5	63	66	76	78	63	72	84	75	56	69	77	55	62	74	61	45	58
6	61	64	64	75	76	63	71	83	74	55	68	76	55	61	73	60	45
7	49	59	62	64	73	75	61	70	82	73	54	67	75	54	60	72	59
8	41	49	56	61	65	72	74	61	70	82	73	54	67	75	54	60	72
Total K-5	435	451	447	440	406	390	383	361	358	363	345	325	325	315	289	271	266
Total K-8	586	623	629	640	620	600	589	575	584	573	540	522	522	505	476	463	442
Willard Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	78	67	52	70	72	59	85	48	58	47	36	45	42	39	36	34	31
K	78	86	65	55	61	66	46	44	53	43	33	41	38	36	33	31	28
1	75	75	89	71	54	58	68	47	45	54	44	34	42	39	37	34	31
2	76	75	74	91	68	51	63	67	46	45	53	44	34	42	39	37	34
3	73	75	70	76	87	70	53	63	67	46	45	53	44	34	42	39	37
4	70	74	73	69	73	73	69	52	61	65	45	44	52	43	33	41	38
5	63	66	76	78	63	72	84	71	53	63	67	46	45	53	44	34	42
6	61	64	64	75	76	63	71	83	70	52	62	66	45	44	52	43	33
7	49	59	62	64	73	75	61	69	81	68	51	61	64	44	43	51	42
8	41	49	56	61	65	72	74	60	68	80	67	50	60	63	43	42	50
Total K-5	435	451	447	440	406	390	383	344	325	316	287	262	255	247	228	216	210
Total K-8	586	623	629	640	620	600	589	556	544	516	467	439	424	398	366	352	335

Willard Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	78	67	52	70	72	59	85	48	58	47	36	45	42	39	36	34	31
K	78	86	65	55	61	66	46	35	42	34	26	32	30	28	26	24	22
1	75	75	89	71	54	58	68	45	35	41	34	26	32	30	28	26	24
2	76	75	74	91	68	51	63	65	43	34	39	33	25	31	29	27	25
3	73	75	70	76	87	70	53	61	63	42	33	38	32	24	30	28	26
4	70	74	73	69	73	73	69	49	56	58	39	31	35	30	22	28	26
5	63	66	76	78	63	72	84	67	48	55	57	38	30	34	29	21	27
6	61	64	64	75	76	63	71	82	65	47	54	56	37	29	33	28	21
7	49	59	62	64	73	75	61	69	80	63	46	52	54	36	28	32	27
8	41	49	56	61	65	72	74	59	67	78	61	45	51	53	35	27	31
Total K-5	435	451	447	440	406	390	383	322	287	264	228	198	184	177	164	154	150
Total K-8	586	623	629	640	620	600	589	532	499	452	389	351	326	295	260	241	229
Willard Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	78	67	52	70	72	59	85	48	58	47	36	45	42	39	36	34	31
K	78	86	65	55	61	66	46	26	31	25	19	24	23	21	20	18	17
1	75	75	89	71	54	58	68	47	27	32	26	20	25	24	22	21	19
2	76	75	74	91	68	51	63	74	51	29	35	28	22	27	26	24	23
3	73	75	70	76	87	70	53	65	77	53	30	36	29	23	28	27	25
4	70	74	73	69	73	73	69	52	64	76	52	30	35	29	23	28	27
5	63	66	76	78	63	72	84	79	60	74	87	60	35	40	33	26	32
6	61	64	64	75	76	63	71	83	78	59	73	86	59	35	39	33	26
7	49	59	62	64	73	75	61	69	80	76	57	71	83	57	34	38	32
8	41	49	56	61	65	72	74	60	68	79	75	56	70	82	56	34	37
Total K-5	435	451	447	440	406	390	383	343	310	289	249	198	169	164	152	144	143
Total K-8	586	623	629	640	620	600	589	555	536	503	454	411	381	338	281	249	238

Table 25: Willard Island Attendance Area Resident Enrollments and Projections

Willard Island Resident Enrollment Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
Births	11	8	8	8	7	8	5	5	3	6	12	6	6	5	5	5	5
K	17	31	23	29	18	22	19	17	10	21	41	20	20	19	18	17	16
1	19	21	31	19	26	17	22	19	17	10	21	40	20	20	19	18	17
2	26	19	18	28	19	25	16	21	18	16	10	20	39	19	19	18	17
3	22	26	18	21	30	21	23	18	23	20	18	11	22	43	21	21	20
4	25	23	26	18	23	23	18	24	19	24	21	19	11	23	44	22	22
5	20	26	27	28	17	23	26	20	27	21	27	24	21	12	26	50	25
6	18	19	29	23	30	16	19	27	21	28	22	28	25	22	13	27	52
7	21	20	16	28	24	28	14	19	26	21	27	22	27	25	22	13	26
8	16	21	20	17	27	26	25	15	20	27	22	28	23	28	26	23	14
Total K-5	129	146	143	143	133	131	124	119	114	112	138	134	133	136	147	146	117
Total K-8	184	206	208	211	214	201	182	180	181	188	209	212	208	211	208	209	209
Willard Island Resident Enrollment Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	11	8	8	8	7	8	5	5	3	6	12	6	6	5	5	5	5
K	17	31	23	29	18	22	19	15	9	19	37	18	18	17	16	15	15
1	19	21	31	19	26	17	22	18	14	9	18	35	17	17	16	15	14
2	26	19	18	28	19	25	16	21	17	13	8	17	33	16	16	15	14
3	22	26	18	21	30	21	23	17	22	18	14	8	18	34	17	17	16
4	25	23	26	18	23	23	18	22	16	21	17	13	8	17	32	16	16
5	20	26	27	28	17	23	26	19	24	17	22	18	14	9	18	34	17
6	18	19	29	23	30	16	19	25	18	23	16	21	17	13	9	17	32
7	21	20	16	28	24	28	14	18	23	17	21	15	19	16	12	8	16
8	16	21	20	17	27	26	25	14	18	23	17	21	15	19	16	12	8
Total K-5	129	146	143	143	133	131	124	112	102	97	116	109	108	110	115	112	92
Total K-8	184	206	208	211	214	201	182	169	161	160	170	166	159	158	152	149	148

Willard Island Resident Enrollment Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
Births	11	8	8	8	7	8	5	5	3	6	12	6	6	5	5	5	5
K	17	31	23	29	18	22	19	14	8	16	33	16	16	15	14	14	13
1	19	21	31	19	26	17	22	17	12	7	14	29	14	14	13	12	12
2	26	19	18	28	19	25	16	20	15	11	6	13	26	13	13	12	11
3	22	26	18	21	30	21	23	16	20	15	11	6	13	25	13	13	12
4	25	23	26	18	23	23	18	20	14	17	13	10	5	11	22	11	11
5	20	26	27	28	17	23	26	18	20	14	17	13	10	5	11	22	11
6	18	19	29	23	30	16	19	23	16	17	12	15	11	9	4	10	19
7	21	20	16	28	24	28	14	17	20	14	15	11	13	10	8	4	9
8	16	21	20	17	27	26	25	13	16	19	13	14	10	12	10	8	4
Total K-5	129	146	143	143	133	131	124	105	89	80	94	87	84	83	86	84	70
Total K-8	184	206	208	211	214	201	182	158	141	130	134	127	118	114	108	106	102
Willard Island Resident Enrollment Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	11	8	8	8	7	8	5	5	3	6	12	6	6	5	5	5	5
K	17	31	23	29	18	22	19	19	11	23	46	23	22	21	20	19	18
1	19	21	31	19	26	17	22	19	19	11	23	46	23	22	21	20	19
2	26	19	18	28	19	25	16	21	18	18	10	22	43	22	21	20	19
3	22	26	18	21	30	21	23	15	19	17	17	9	20	40	20	19	18
4	25	23	26	18	23	23	18	20	13	16	15	15	8	17	34	17	16
5	20	26	27	28	17	23	26	20	23	15	18	17	17	9	19	38	19
6	18	19	29	23	30	16	19	21	17	19	12	15	14	14	7	16	31
7	21	20	16	28	24	28	14	17	18	15	17	11	13	12	12	6	14
8	16	21	20	17	27	26	25	13	15	16	13	15	10	12	11	11	5
Total K-5	129	146	143	143	133	131	124	114	103	100	129	132	133	131	135	133	109
Total K-8	184	206	208	211	214	201	182	165	153	150	171	173	170	169	165	166	159

Table 26: Chute Attendance Area Resident Enrollments and Projections

Chute MS Resident Enrollments and Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
6	294	295	251	291	294	287	282	256	265	263	256	300	255	315	283	246	268
7	245	298	291	237	282	288	276	277	252	261	258	252	293	250	310	277	241
8	240	238	297	272	234	276	277	275	275	251	259	256	251	290	248	308	275
Total 6-8	779	831	839	800	810	851	835	808	792	775	773	808	799	855	841	831	784
Chute MS Resident Enrollments and Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
6	294	295	251	291	294	287	282	252	250	236	227	253	212	245	220	192	210
7	245	298	291	237	282	288	276	273	244	242	228	220	244	205	237	213	186
8	240	238	297	272	234	276	277	270	266	238	236	221	215	236	199	231	206
Total 6-8	779	831	839	800	810	851	835	795	760	716	691	694	671	686	656	636	602
Chute MS Resident Enrollments and Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
6	294	295	251	291	294	287	282	248	232	215	200	216	176	193	171	151	165
7	245	298	291	237	282	288	276	268	236	220	204	190	204	167	184	162	144
8	240	238	297	272	234	276	277	264	255	225	209	194	182	193	159	176	154
Total 6-8	779	831	839	800	810	851	835	780	723	660	613	600	562	553	514	489	463
Chute MS Resident Enrollments and Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
6	294	295	251	291	294	287	282	253	220	200	181	198	171	196	179	154	167
7	245	298	291	237	282	288	276	270	243	211	192	173	189	163	188	171	147
8	240	238	297	272	234	276	277	265	259	233	203	184	165	179	155	179	163
Total 6-8	779	831	839	800	810	851	835	788	722	644	576	555	525	538	522	504	477

Table 27: Haven Attendance Area Resident Enrollments and Projections

Haven MS Resident Enrollments and Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
6	336	340	322	345	365	305	339	341	313	324	319	318	275	333	328	312	329
7	297	329	338	325	339	363	284	343	343	316	327	323	321	278	337	332	315
8	302	296	325	338	321	334	353	283	342	342	316	328	324	321	278	337	333
Total 6-8	935	965	985	1008	1025	1002	976	967	998	982	962	969	920	932	943	981	977
Haven MS Resident Enrollments and Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
6	336	340	322	345	365	305	339	335	298	302	285	276	228	256	253	238	248
7	297	329	338	325	339	363	284	334	329	293	297	281	270	224	252	249	234
8	302	296	325	338	321	334	353	279	329	324	288	293	276	265	220	247	245
Total 6-8	935	965	985	1008	1025	1002	976	948	956	919	870	850	774	745	725	734	727
Haven MS Resident Enrollments and Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
6	336	340	322	345	365	305	339	327	280	272	249	232	187	186	178	172	177
7	297	329	338	325	339	363	284	326	314	268	262	239	222	180	179	171	165
8	302	296	325	338	321	334	353	276	318	307	261	256	233	216	175	174	167
Total 6-8	935	965	985	1008	1025	1002	976	929	912	847	772	727	642	582	532	517	509
Haven MS Resident Enrollments and Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
6	336	340	322	345	365	305	339	332	292	284	260	250	201	175	167	164	176
7	297	329	338	325	339	363	284	317	310	274	266	244	234	188	162	155	153
8	302	296	325	338	321	334	353	276	308	301	266	258	238	229	184	159	151
Total 6-8	935	965	985	1008	1025	1002	976	925	910	859	792	752	673	592	513	478	480

Table 28: Nichols Attendance Area Resident Enrollments and Projections

Nichols MS Resident Enrollments and Projections; High Series																	
Grade	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	2029-30	2030-31	2031-32
6	275	269	301	272	319	281	243	278	275	266	277	271	245	284	251	244	229
7	253	270	265	302	260	313	278	243	278	275	266	277	271	245	284	251	244
8	209	249	269	264	303	259	303	280	245	280	277	268	279	273	247	286	253
Total 6-8	737	788	835	838	882	853	824	801	798	821	820	816	795	802	782	781	726
Nichols MS Resident Enrollments and Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
6	275	269	301	272	319	281	243	271	251	231	231	219	196	217	191	187	174
7	253	270	265	302	260	313	278	239	267	247	227	227	216	193	214	188	184
8	209	249	269	264	303	259	303	275	237	265	245	225	226	215	192	213	187
Total 6-8	737	788	835	838	882	853	824	785	755	743	703	671	638	625	597	588	545
Nichols MS Resident Enrollments and Projections; Low Series																	
Grade	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	2029-30	2030-31	2031-32
6	275	269	301	272	319	281	243	260	233	203	197	181	158	159	140	137	131
7	253	270	265	302	260	313	278	234	251	225	196	190	175	152	153	134	131
8	209	249	269	264	303	259	303	271	227	245	219	191	186	171	148	149	131
Total 6-8	737	788	835	838	882	853	824	765	711	673	612	562	519	482	441	420	393
Nichols MS Resident Enrollments and Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
6	275	269	301	272	319	281	243	251	253	216	225	195	178	192	170	165	165
7	253	270	265	302	260	313	278	241	248	249	213	222	192	175	188	167	161
8	209	249	269	264	303	259	303	268	232	240	242	207	216	186	170	183	162
Total 6-8	737	788	835	838	882	853	824	760	733	705	680	624	586	553	528	515	488

Table 29: District Resident Enrollments and Projections

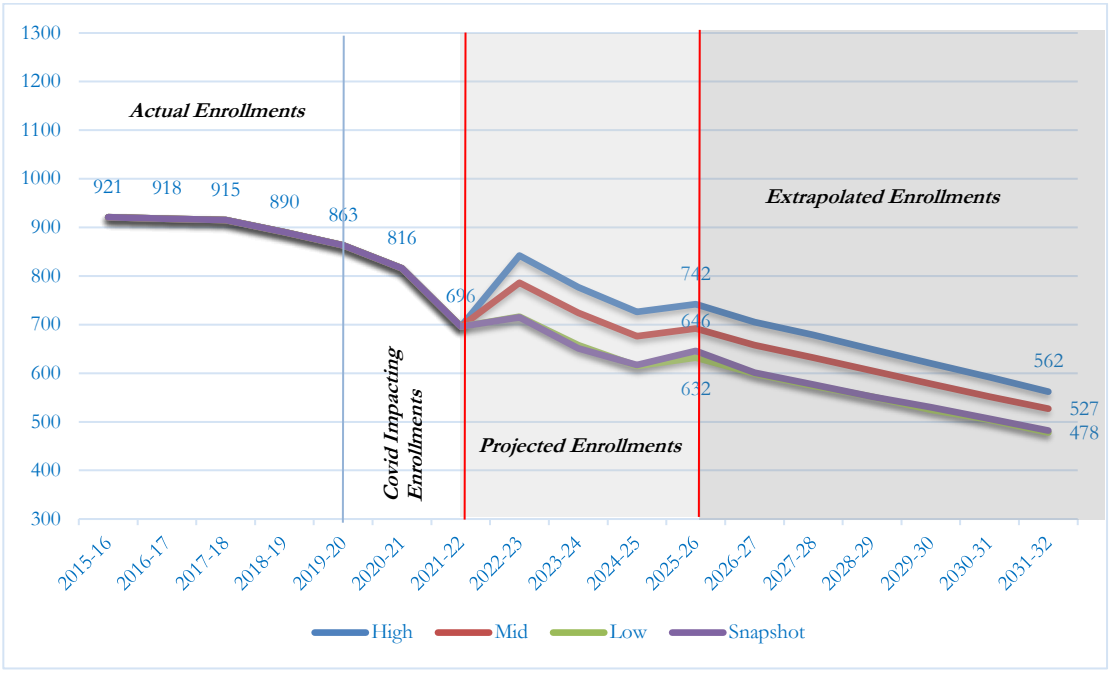
District Resident Enrollments and Projections; High Series																	
Grade	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Births	1046	1023	944	977	977	926	864	864	795	746	723	707	675	643	612	580	548
K	921	918	915	890	863	816	696	842	777	726	742	705	679	649	620	592	562
1	910	934	925	910	876	839	812	707	855	791	740	753	717	690	660	631	603
2	958	912	909	921	892	799	785	813	708	858	794	742	755	720	692	662	633
3	879	990	905	934	903	856	799	797	825	718	873	806	752	771	734	706	673
4	910	888	979	909	918	918	820	824	819	852	741	899	829	772	791	755	727
5	876	890	907	981	878	890	864	843	842	840	877	764	921	852	793	816	777
6	905	904	874	908	978	873	864	875	853	853	852	889	775	932	862	802	826
7	795	897	894	864	881	964	838	863	873	852	851	852	885	773	931	860	800
8	751	783	891	874	858	869	933	838	862	873	852	852	854	884	773	931	861
9	49	54	51	59	69	62	48	68	61	62	63	62	62	62	64	56	67
10	7	3	4	3	8	3	2	4	6	5	6	6	6	6	6	6	5
11	4	6	2	3	3	8	3	2	4	6	5	6	6	6	6	6	6
12	7	4	7	2	3	3	7	3	2	5	6	6	6	6	6	6	6
Total K-12	7972	8183	8263	8258	8130	7900	7471	7479	7487	7441	7403	7341	7246	7122	6937	6828	6546
Total K-5	5454	5532	5540	5545	5330	5118	4776	4826	4826	4785	4767	4669	4653	4454	4290	4162	3975
Total 6-8	2451	2584	2659	2646	2717	2706	2635	2576	2588	2578	2555	2593	2514	2589	2566	2593	2487
Total 9-12	67	67	64	67	83	76	60	77	73	78	81	79	79	79	81	73	84
Total K-8	7905	8116	8199	8191	8047	7824	7411	7402	7414	7363	7322	7262	7167	7043	6856	6755	6462

District Resident Enrollments and Projections; Mid Series																	
Grade	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	2029-30	2030-31	2031-32
Births	1046	1023	944	977	977	926	864	864	795	746	723	707	675	643	612	580	548
K	921	918	915	890	863	816	696	786	724	676	692	658	632	605	578	552	527
1	910	934	925	910	876	839	812	692	781	720	673	688	654	628	602	575	548
2	958	912	909	921	892	799	785	784	669	756	696	650	667	632	609	583	556
3	879	990	905	934	903	856	799	774	773	660	746	686	642	661	625	603	577
4	910	888	979	909	918	918	820	790	762	764	652	736	679	632	650	617	595
5	876	890	907	981	878	890	864	804	774	748	752	640	723	667	621	639	607
6	905	904	874	908	978	873	864	858	799	769	743	748	636	718	664	617	632
7	795	897	894	864	881	964	838	846	840	782	752	728	730	622	703	650	604
8	751	783	891	874	858	869	933	824	832	827	769	739	717	716	611	691	638
9	49	54	51	59	69	62	48	63	56	56	56	52	50	49	49	41	47
10	7	3	4	3	8	3	2	3	4	3	3	3	3	3	3	3	2
11	4	6	2	3	3	8	3	2	3	3	3	3	3	3	3	3	3
12	7	4	7	2	3	3	7	3	2	3	3	3	3	3	3	3	3
Total K-12	7972	8183	8263	8258	8130	7900	7471	7229	7018	6768	6541	6335	6139	5938	5720	5577	5339
Total K-5	5454	5532	5540	5545	5330	5118	4776	4630	4483	4324	4211	4058	3997	3825	3685	3569	3410
Total 6-8	2451	2584	2659	2646	2717	2706	2635	2528	2471	2378	2264	2215	2083	2056	1978	1958	1874
Total 9-12	67	67	64	67	83	76	60	71	64	66	66	62	59	57	57	50	55
Total K-8	7905	8116	8199	8191	8047	7824	7411	7158	6954	6702	6475	6273	6080	5881	5663	5527	5284

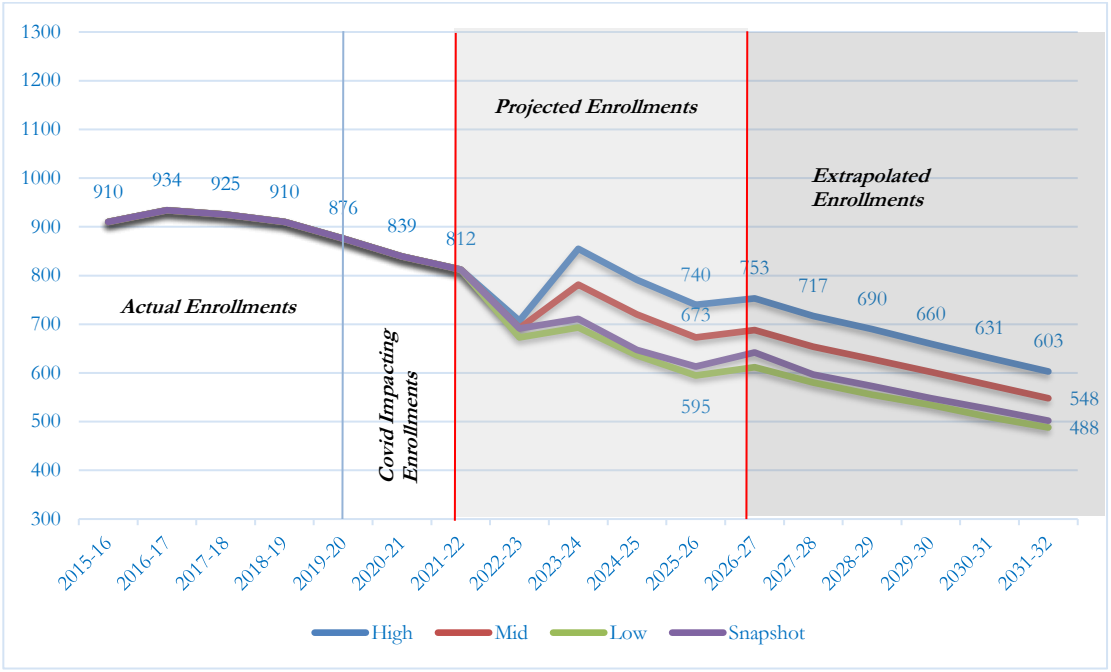
District Resident Enrollments and Projections; Low Series																	
Grade	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Births	1046	1023	944	977	977	926	864	864	795	746	723	707	675	643	612	580	548
K	921	918	915	890	863	816	696	716	658	615	632	599	574	552	525	504	478
1	910	934	925	910	876	839	812	673	693	636	595	612	580	555	534	509	488
2	958	912	909	921	892	799	785	761	631	649	594	558	573	543	521	502	479
3	879	990	905	934	903	856	799	750	727	605	620	569	533	549	520	499	481
4	910	888	979	909	918	918	820	762	712	692	575	591	541	507	521	495	476
5	876	890	907	981	878	890	864	771	714	668	650	539	555	506	476	491	464
6	905	904	874	908	978	873	864	835	745	690	646	629	521	538	489	460	473
7	795	897	894	864	881	964	838	828	801	713	662	619	601	499	516	467	440
8	751	783	891	874	858	869	933	811	800	777	689	641	601	580	482	499	452
9	49	54	51	59	69	62	48	58	50	50	48	43	40	37	36	30	31
10	7	3	4	3	8	3	2	2	3	2	2	2	2	2	2	2	1
11	4	6	2	3	3	8	3	2	2	2	2	2	2	2	1	1	1
12	7	4	7	2	3	3	7	3	2	2	2	2	2	2	2	1	1
Total K-12	7972	8183	8263	8258	8130	7900	7471	6972	6537	6101	5717	5406	5124	4871	4625	4460	4266
Total K-5	5454	5532	5540	5545	5330	5118	4776	4433	4135	3865	3666	3468	3356	3212	3097	3000	2866
Total 6-8	2451	2584	2659	2646	2717	2706	2635	2474	2346	2180	1997	1889	1723	1617	1487	1426	1365
Total 9-12	67	67	64	67	83	76	60	65	56	56	54	49	45	42	41	34	35
Total K-8	7905	8116	8199	8191	8047	7824	7411	6907	6481	6045	5663	5357	5079	4829	4584	4426	4231

District Resident Enrollments and Projections; Snapshot Series																	
Grade	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	2029-30	2030-31	2031-32
Births	1046	1023	944	977	977	926	864	864	795	746	723	707	675	643	612	580	548
K	921	918	915	890	863	816	696	715	651	617	646	601	577	552	530	506	482
1	910	934	925	910	876	839	812	691	711	647	613	642	597	573	548	526	502
2	958	912	909	921	892	799	785	759	647	660	603	570	599	555	536	513	494
3	879	990	905	934	903	856	799	749	727	617	629	575	541	570	528	510	487
4	910	888	979	909	918	918	820	765	714	696	591	602	553	518	541	505	488
5	876	890	907	981	878	890	864	792	725	692	666	571	584	535	500	532	489
6	905	904	874	908	978	873	864	836	765	700	666	643	550	563	516	483	508
7	795	897	894	864	881	964	838	828	801	734	671	639	615	526	538	493	461
8	751	783	891	874	858	869	933	809	799	774	711	649	619	594	509	521	476
9	49	54	51	59	69	62	48	52	45	44	43	39	36	34	33	28	29
10	7	3	4	3	8	3	2	2	2	1	1	1	1	1	1	1	1
11	4	6	2	3	3	8	3	2	2	2	1	1	1	1	1	1	1
12	7	4	7	2	3	3	7	3	2	1	1	1	1	1	1	1	1
Total K-12	7972	8183	8263	8258	8130	7900	7471	7002	6590	6186	5843	5535	5275	5024	4782	4620	4419
Total K-5	5454	5532	5540	5545	5330	5118	4776	4471	4175	3929	3748	3561	3451	3303	3183	3092	2942
Total 6-8	2451	2584	2659	2646	2717	2706	2635	2473	2365	2208	2048	1931	1784	1683	1563	1497	1445
Total 9-12	67	67	64	67	83	76	60	58	50	49	47	43	40	38	36	31	32
Total K-8	7905	8116	8199	8191	8047	7824	7411	6944	6540	6137	5796	5492	5235	4986	4746	4589	4387

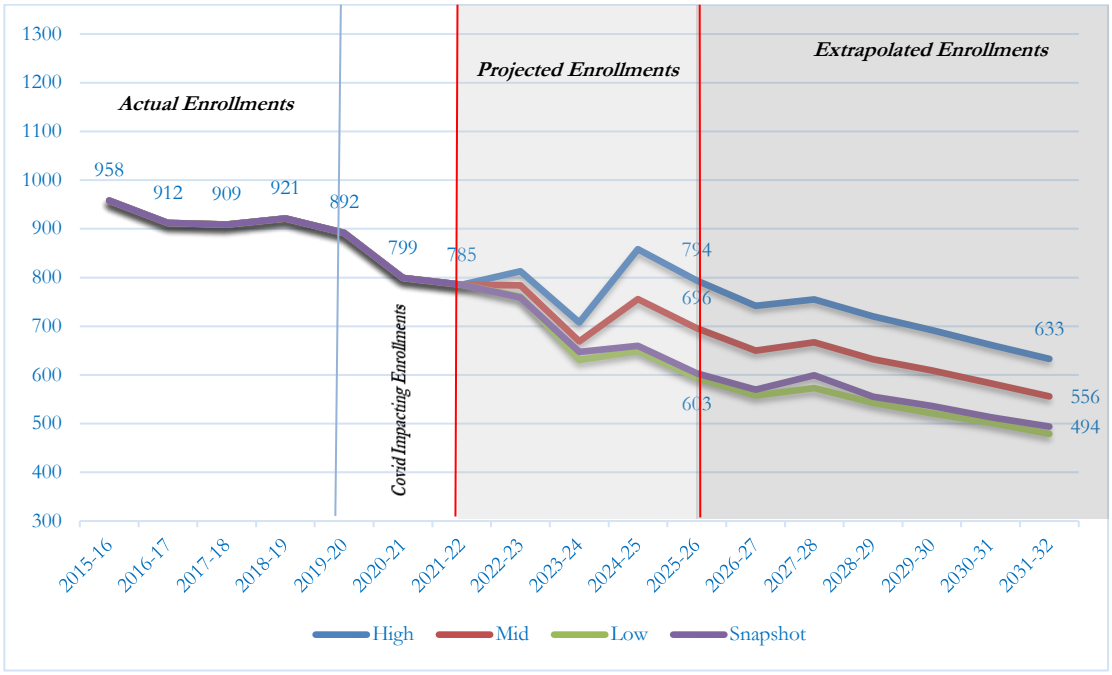
Graph 6: Kindergarten District Enrollments and Projections



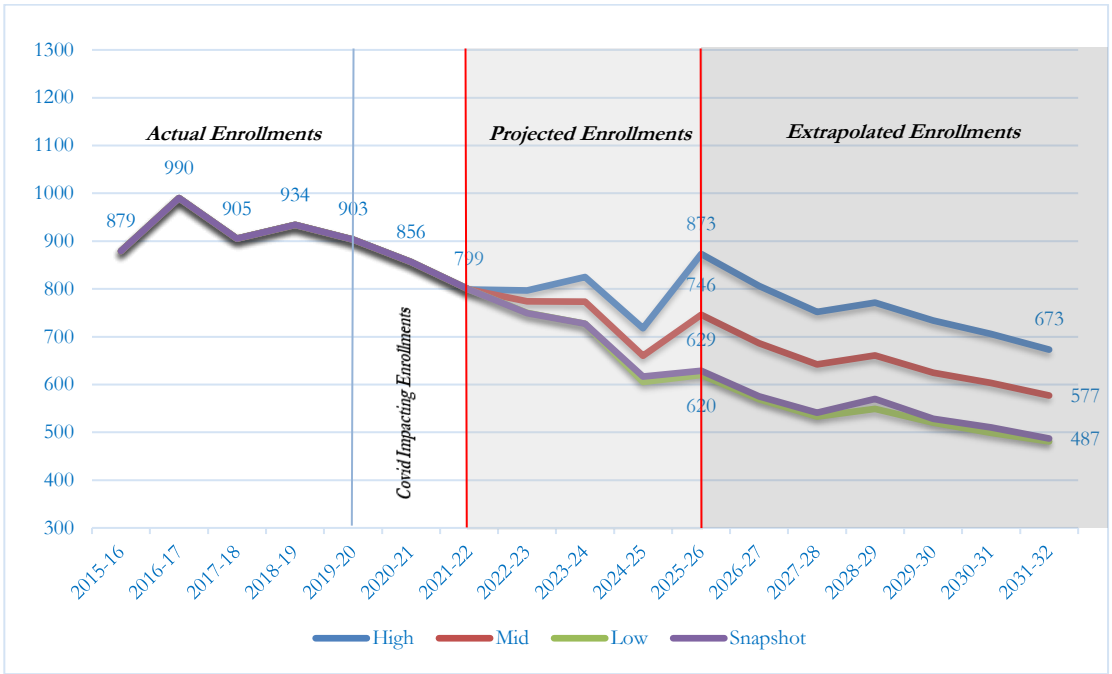
Graph 7: First Grade District Enrollments and Projections



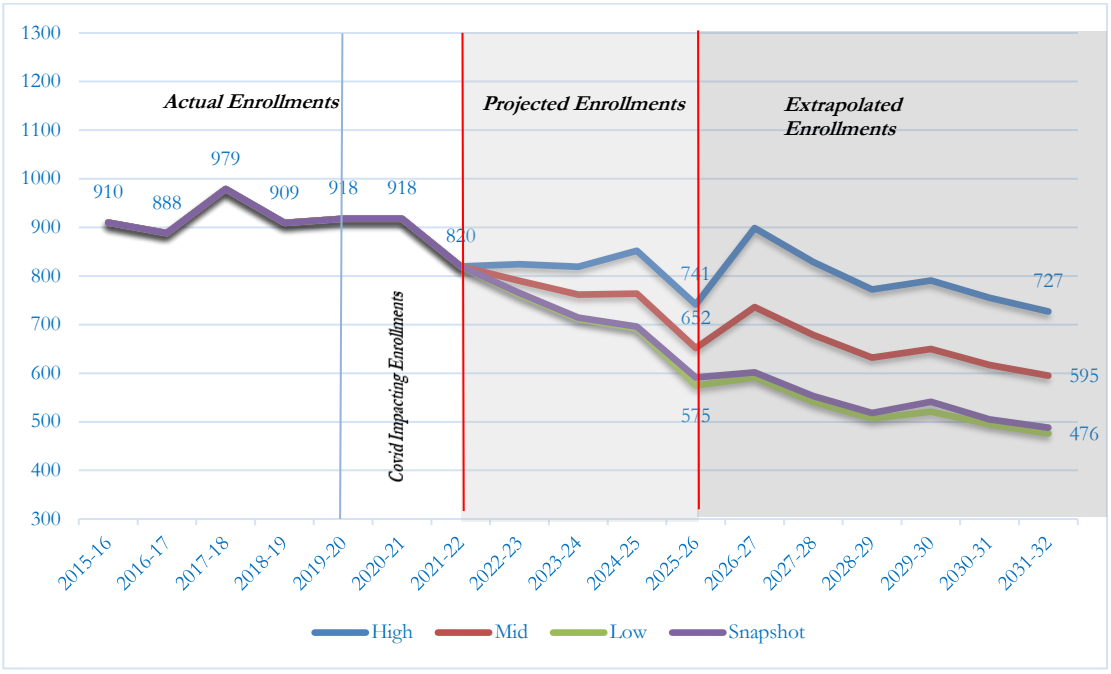
Graph 8: Second Grade District Enrollments and Projections



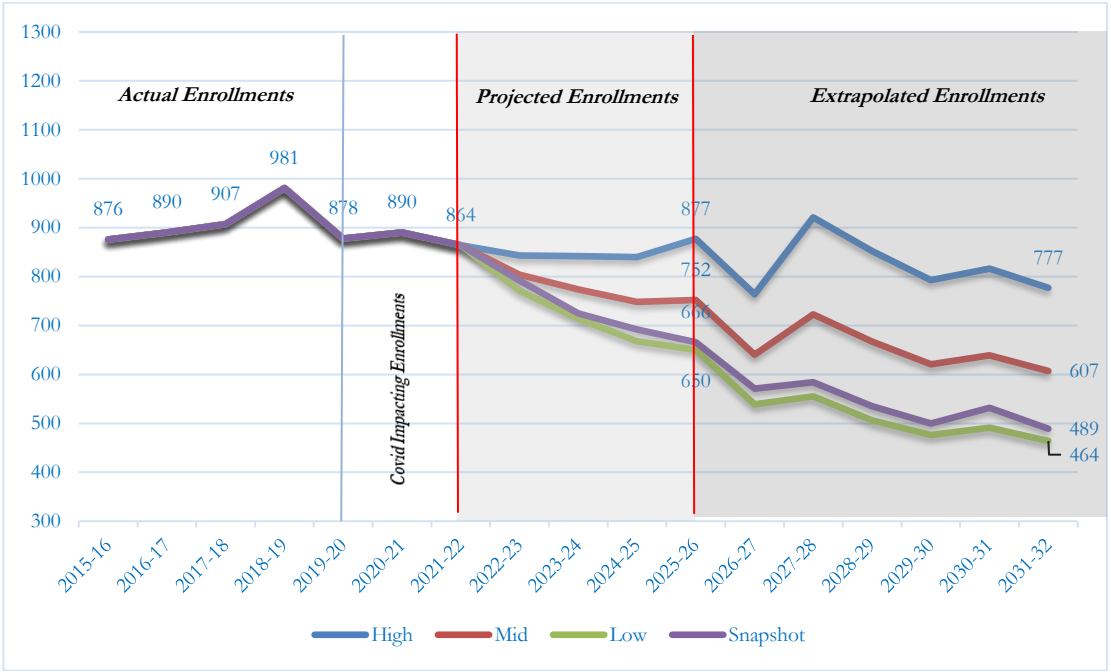
Graph 9: Third Grade District Enrollments and Projections



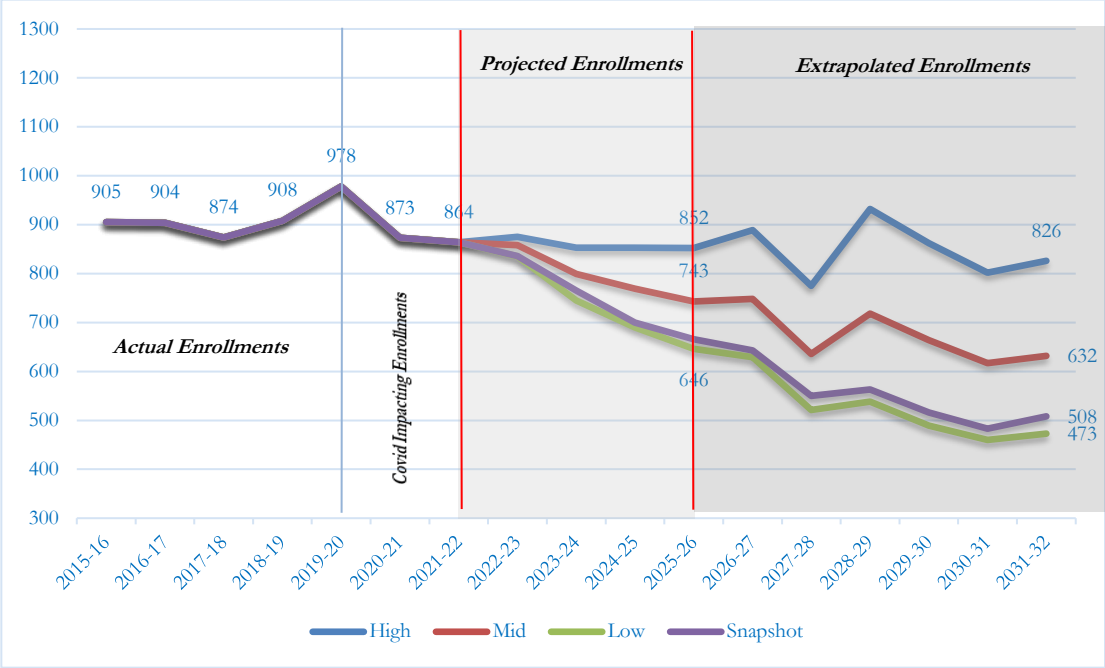
Graph 10: Fourth Grade District Enrollments and Projections



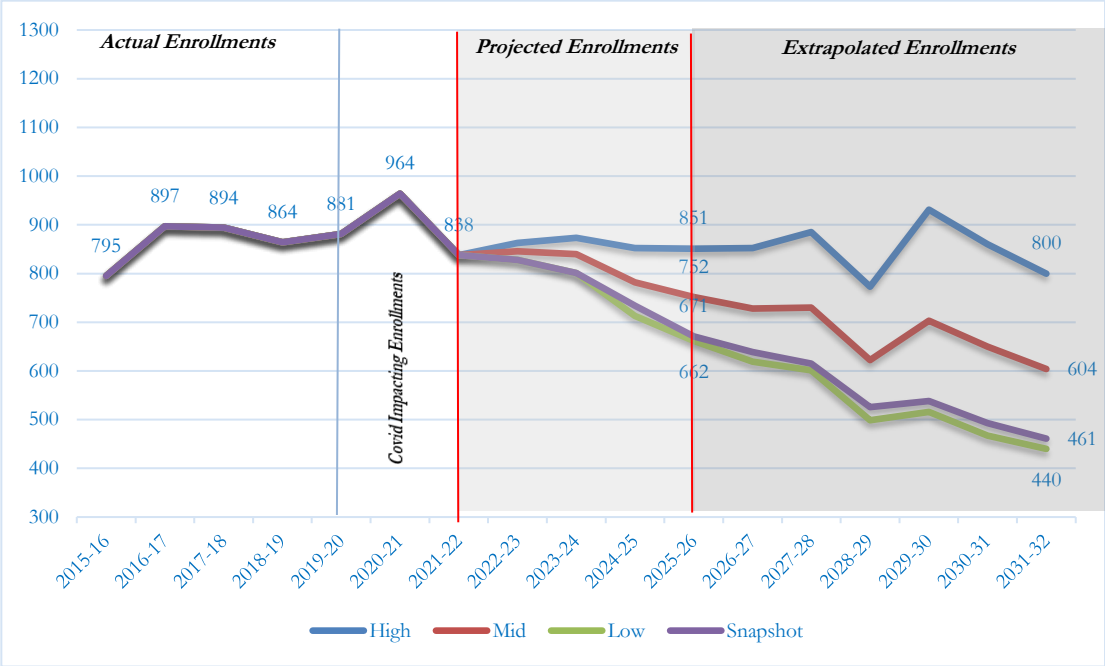
Graph 11: Fifth Grade District Enrollments and Projections



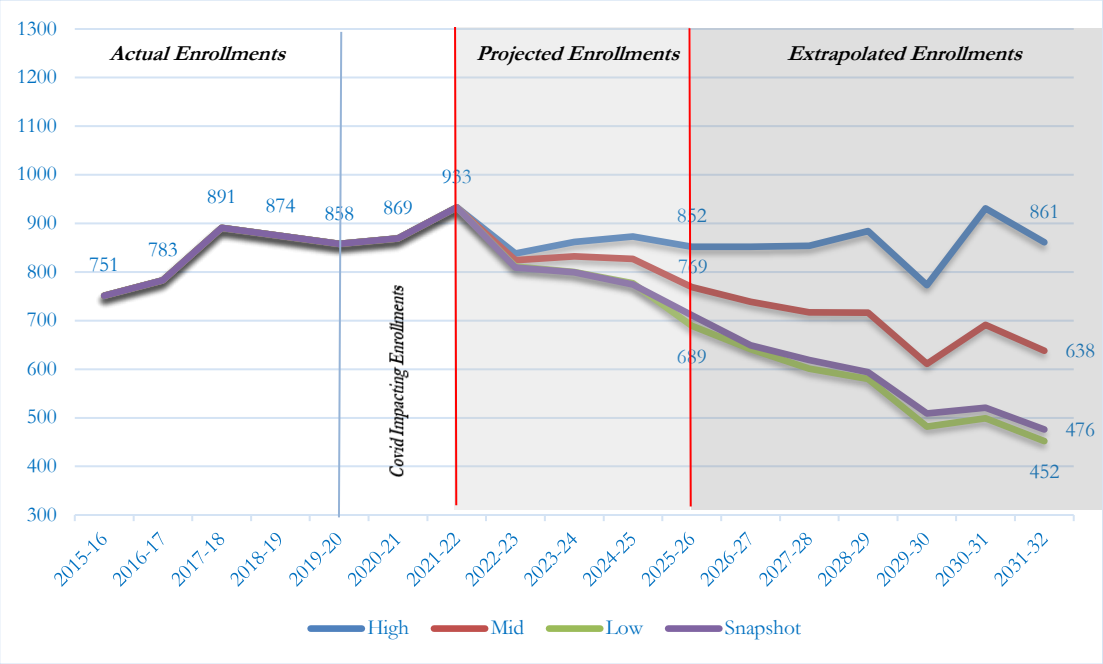
Graph 12: Sixth Grade District Enrollments and Projections



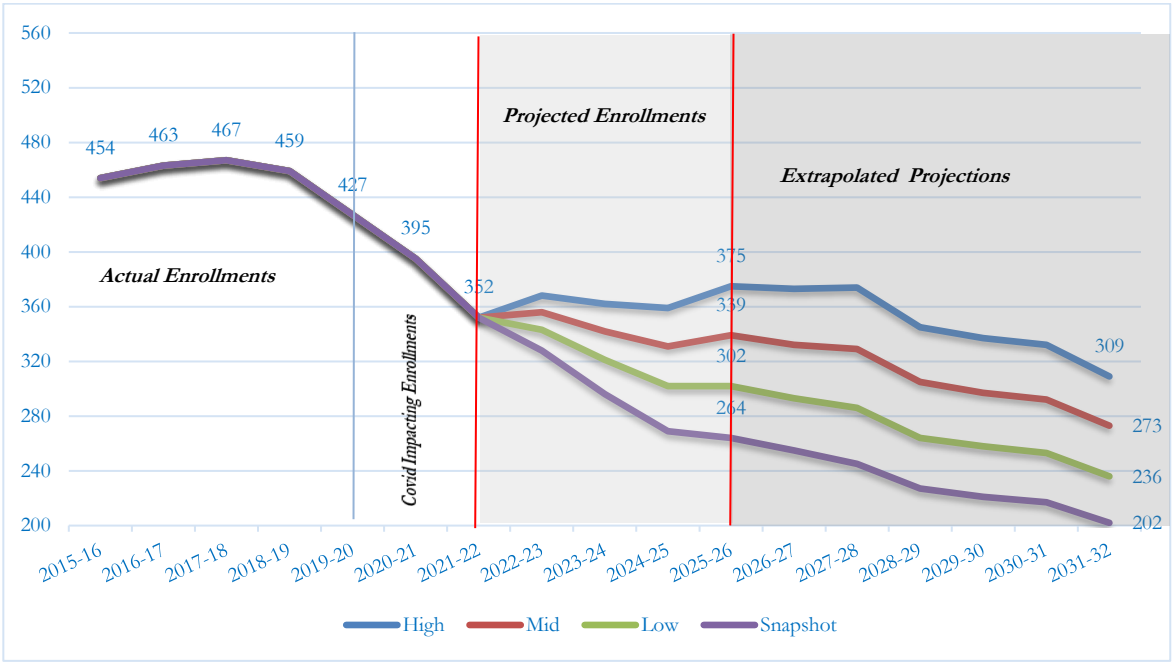
Graph 13: Seventh Grade District Enrollments and Projections



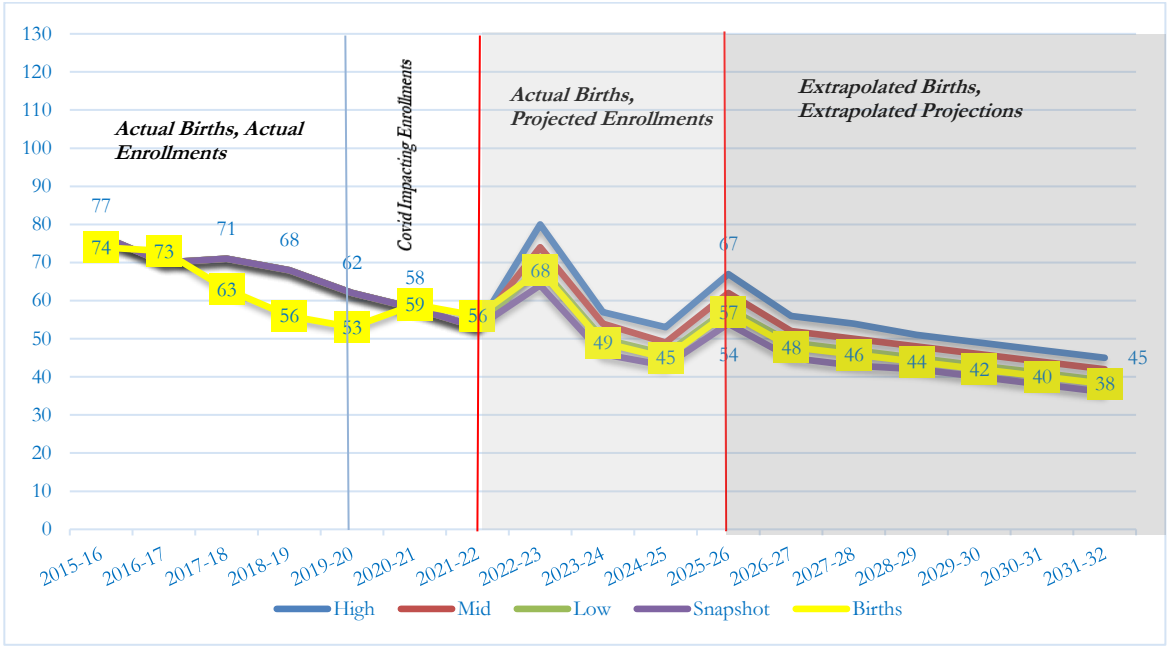
Graph 14: Eighth Grade District Enrollments and Projections



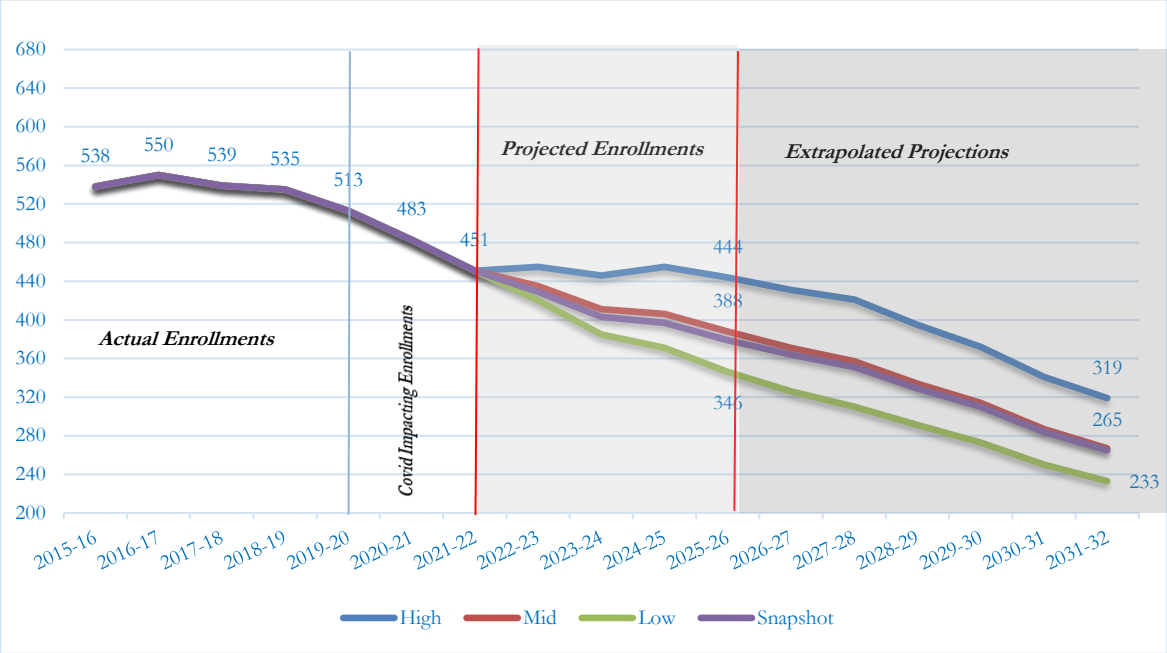
Graph 15: Dawes Attendance Area K-5 Total Enrollments and Projections



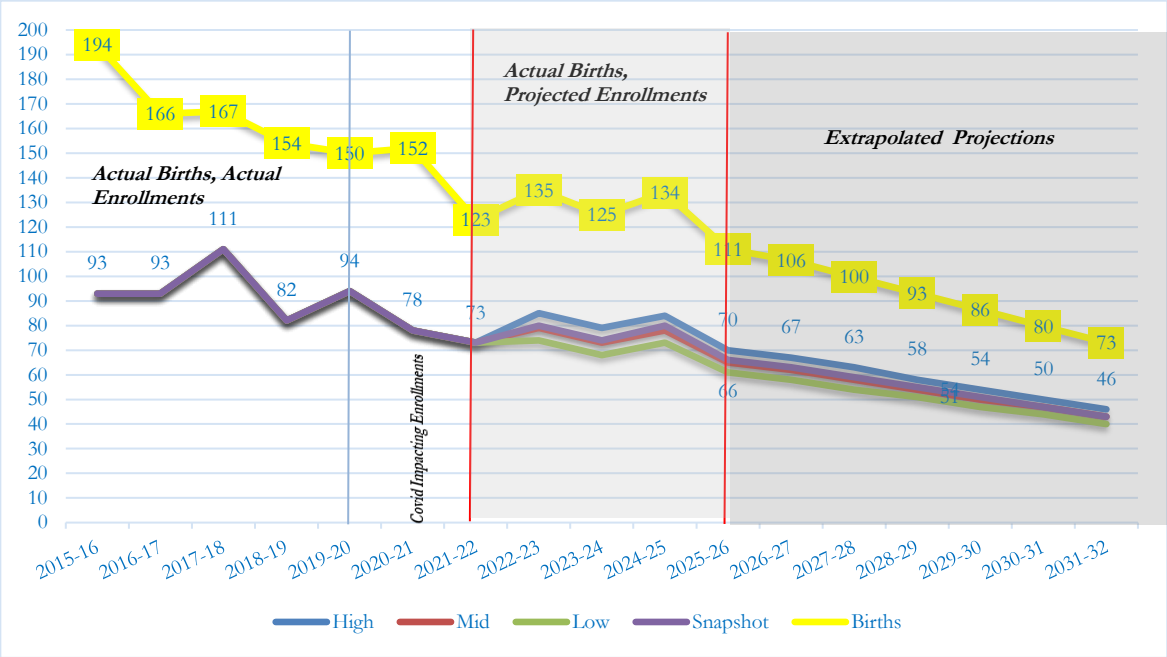
Graph 16: Dawes Attendance Area Births, Kindergarten Enrollments and Projections



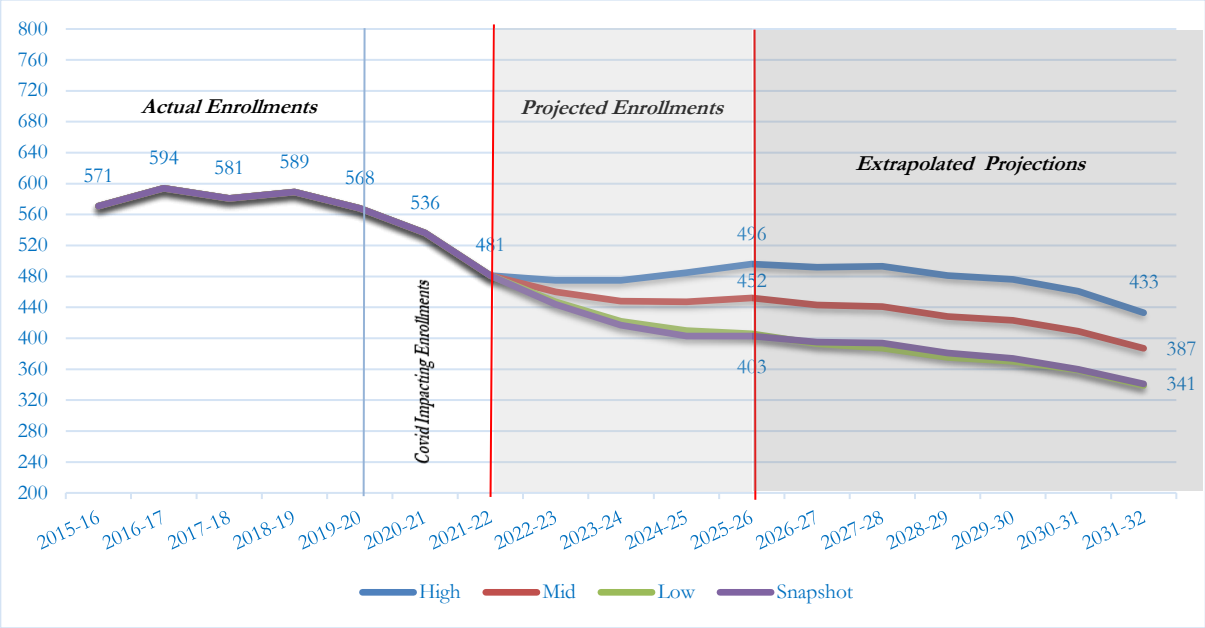
Graph 17: Dewey Attendance Area K-5 Total Enrollments and Projections



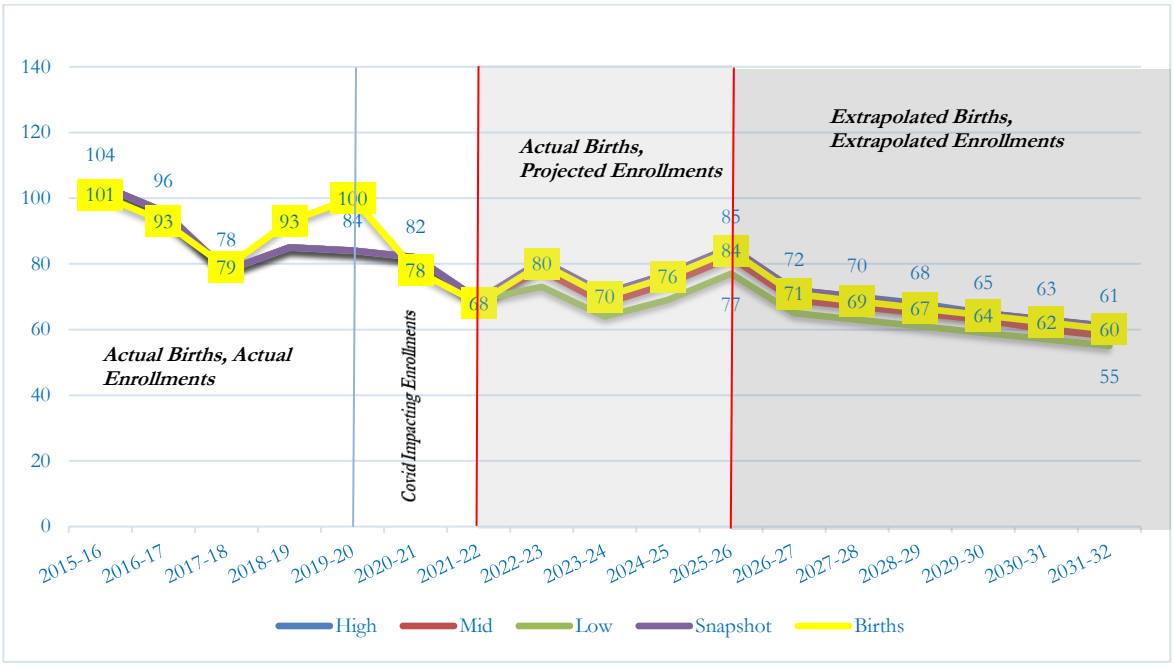
Graph 18: Dewey Attendance Area Births, Kindergarten Enrollments and Projections



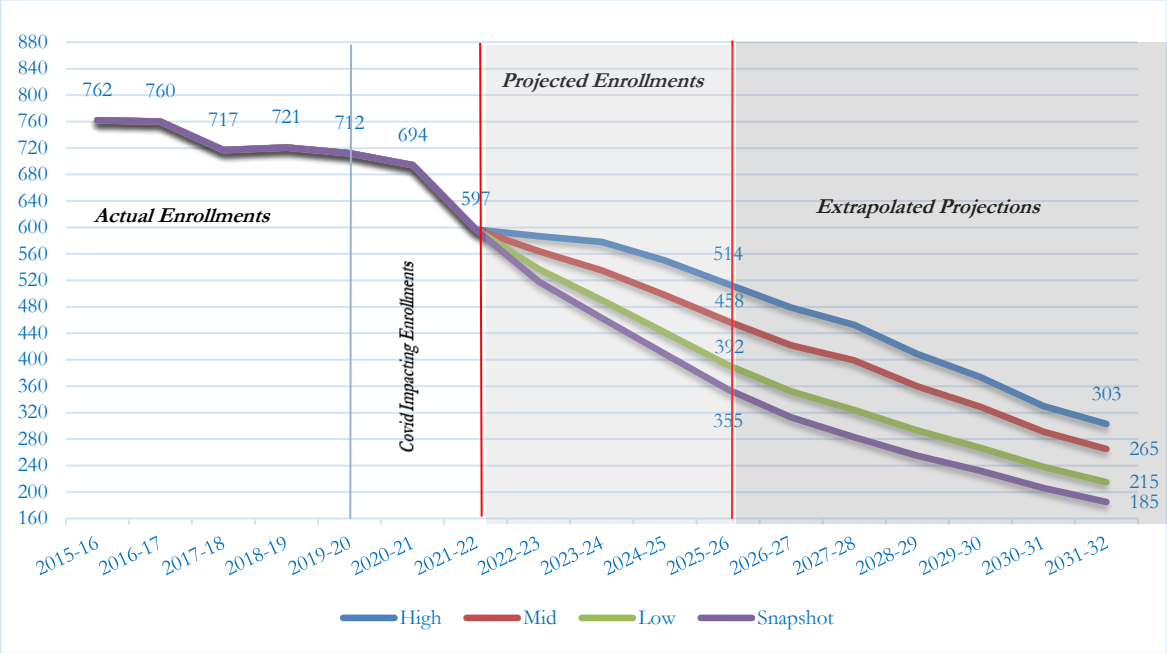
Graph 19: Kingsley Attendance Area K-5 Total Enrollments and Projections



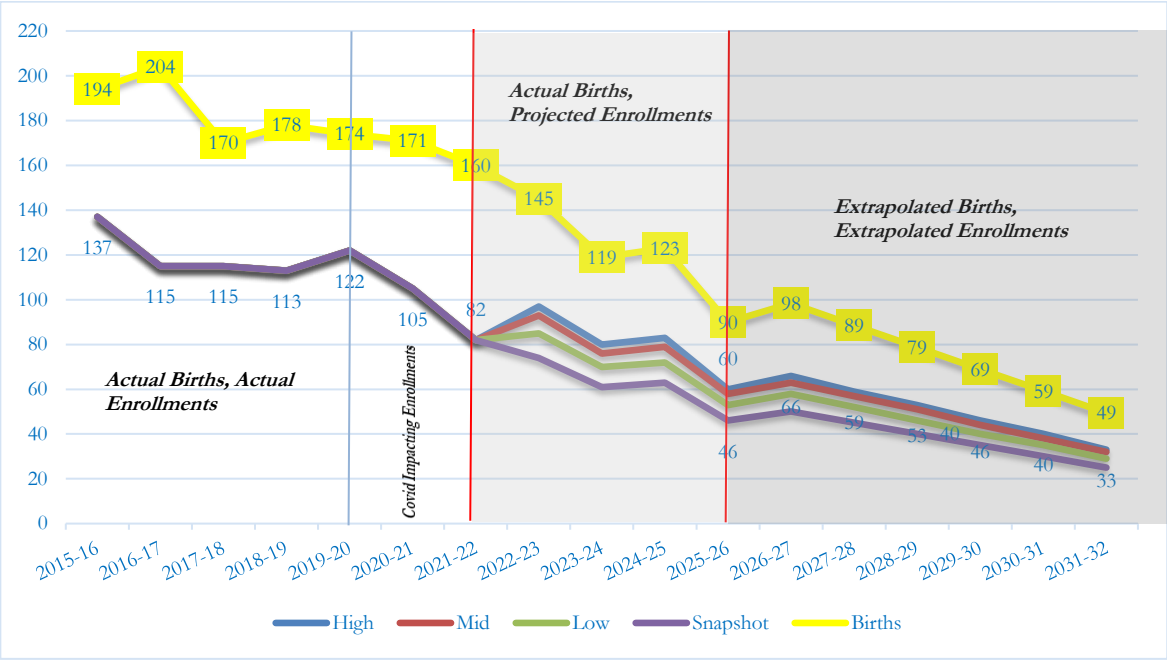
Graph 20: Kingsley Attendance Area Births, Kindergarten Enrollments and Projections



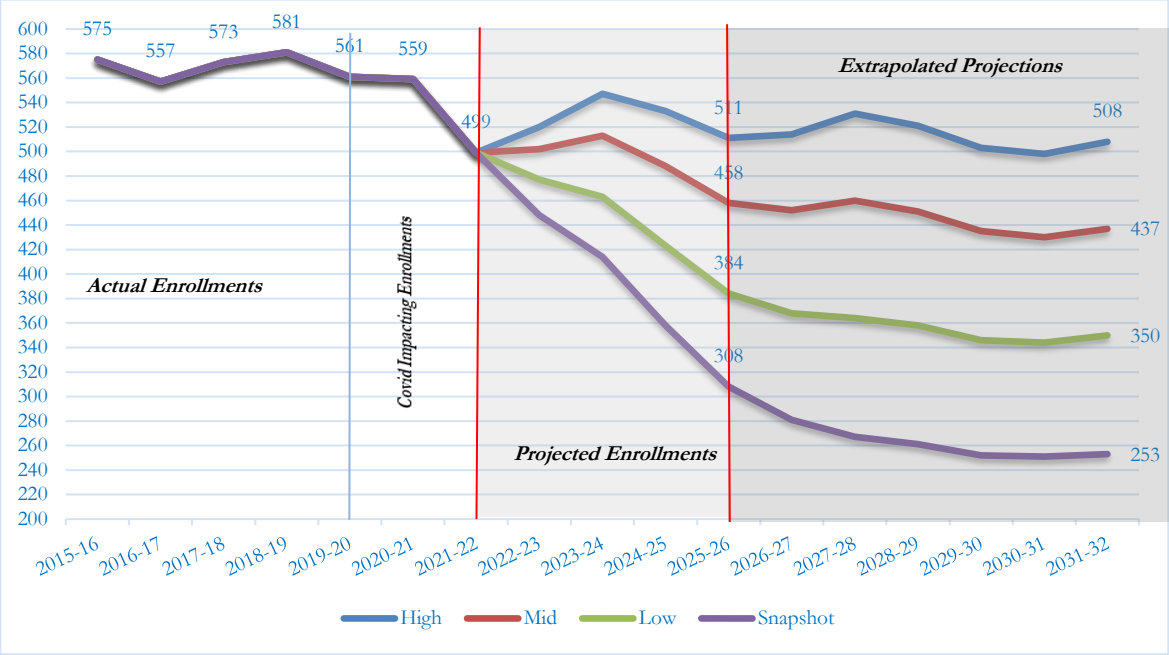
Graph 21: Lincoln Attendance Area K-5 Total Enrollments and Projections



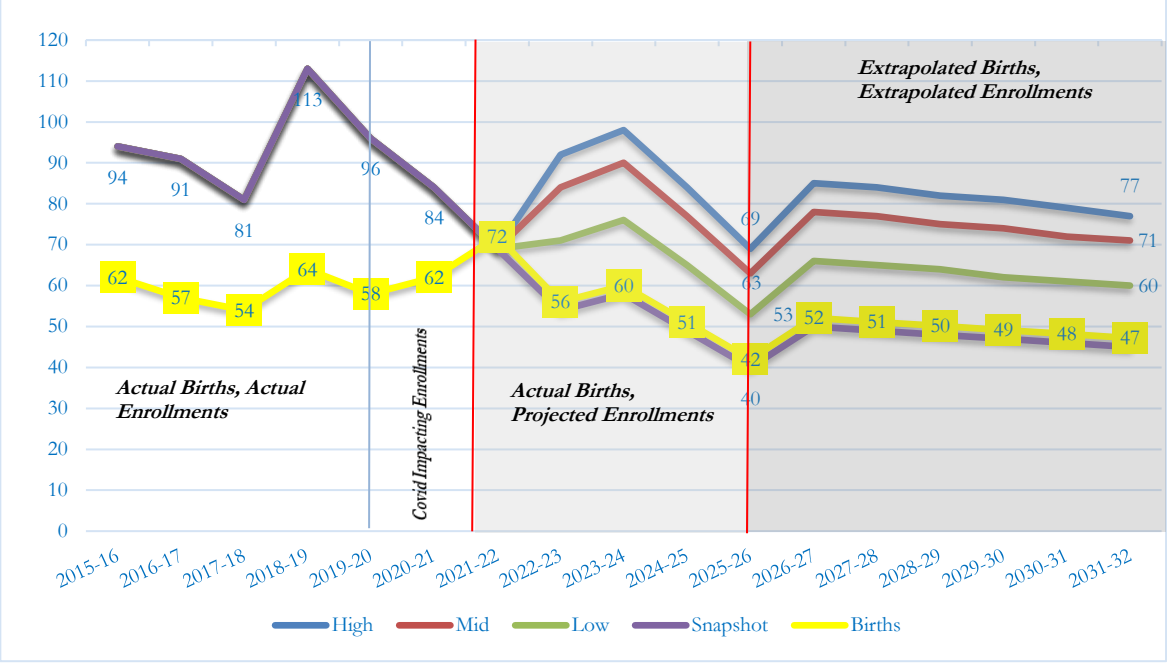
Graph 22: Lincoln Attendance Area Births, Kindergarten Enrollments and Projections



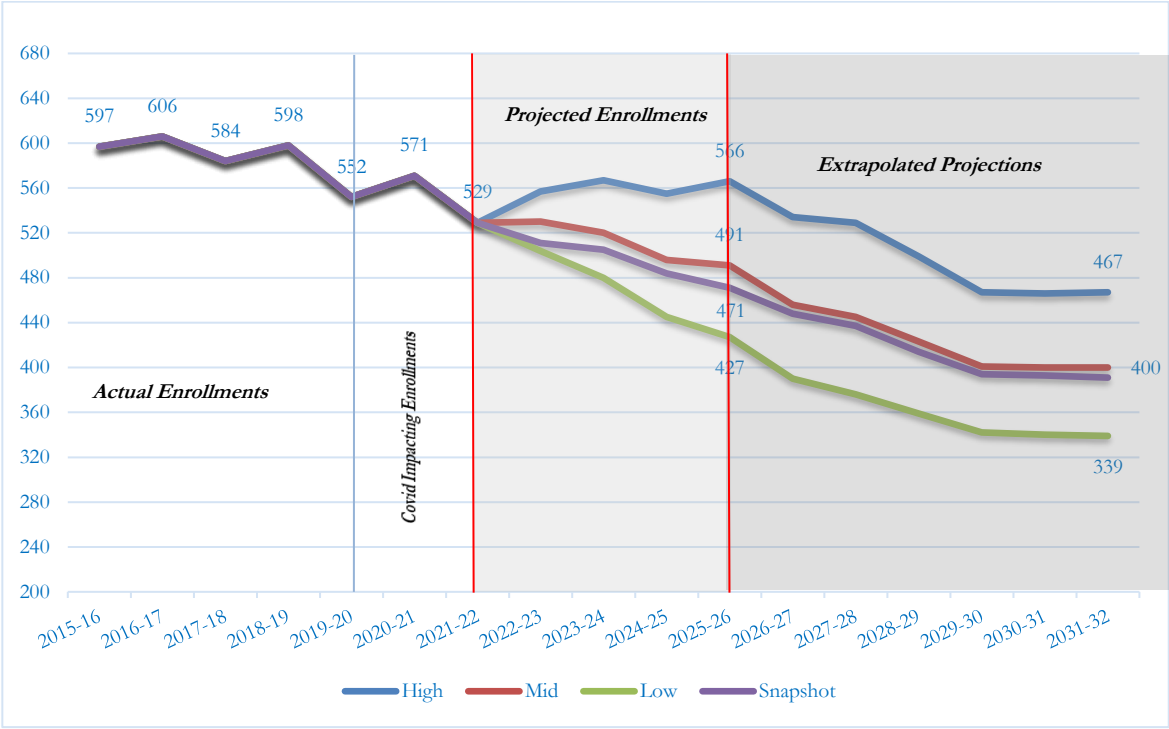
Graph 23: Lincolnwood Attendance Area K-5 Total Enrollments and Projections



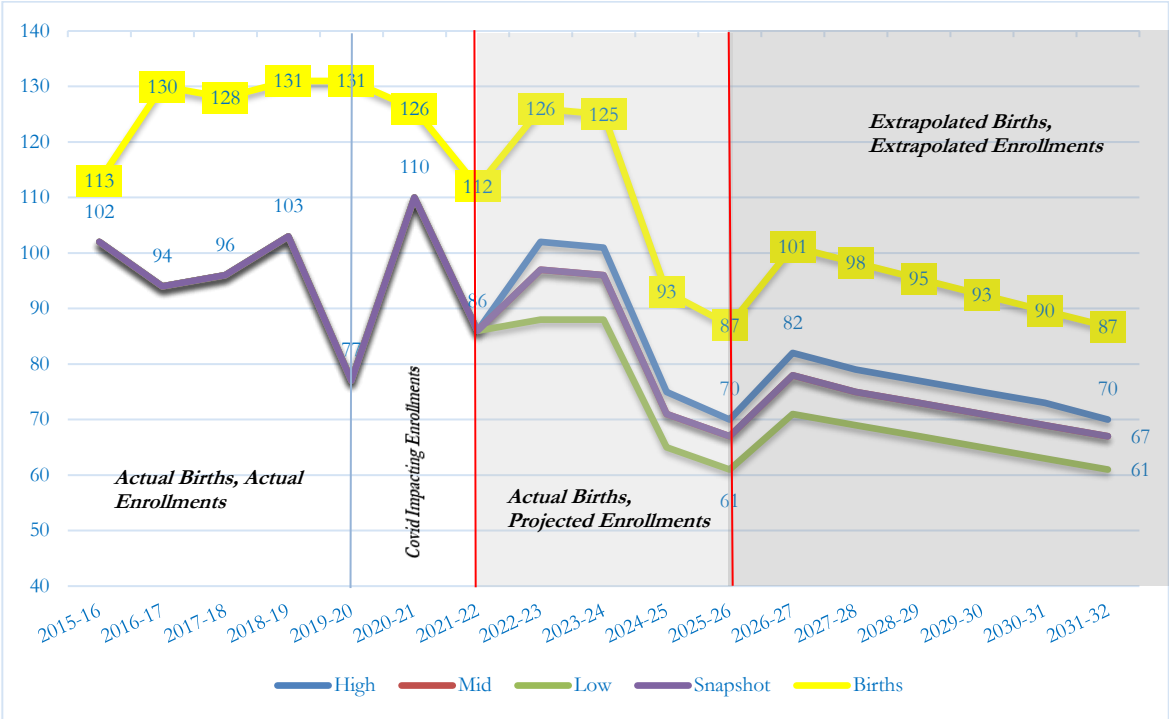
Graph 24: Lincolnwood Attendance Area Births, Kindergarten Enrollments and Projections



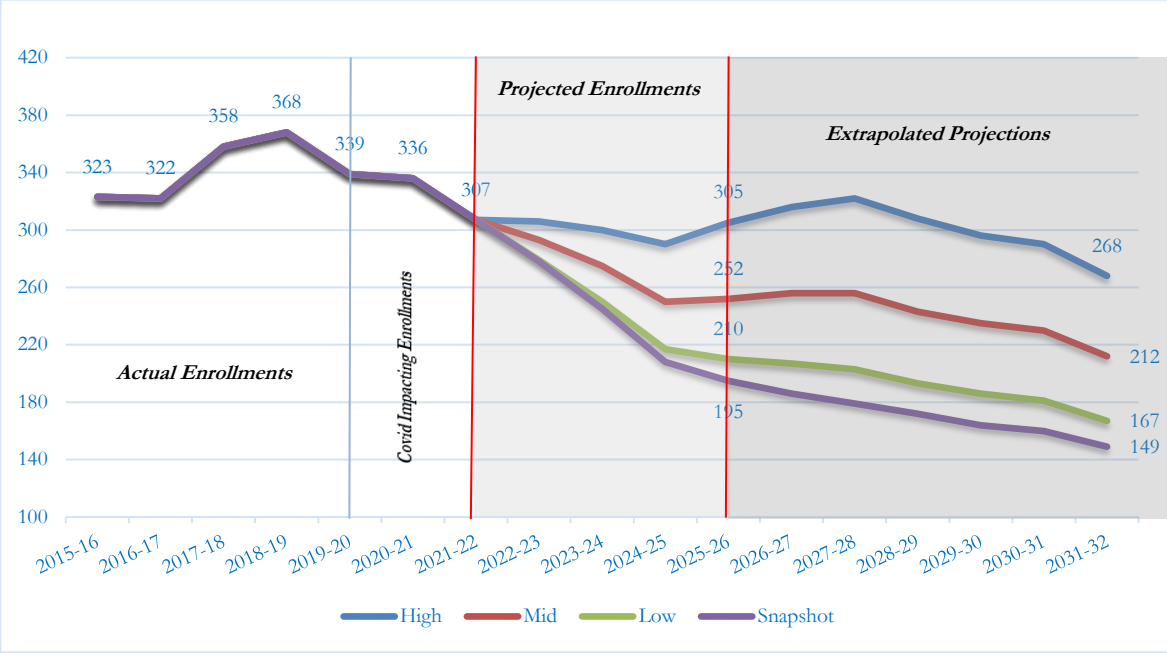
Graph 25: Oakton Attendance Area K-5 Total Enrollments and Projections



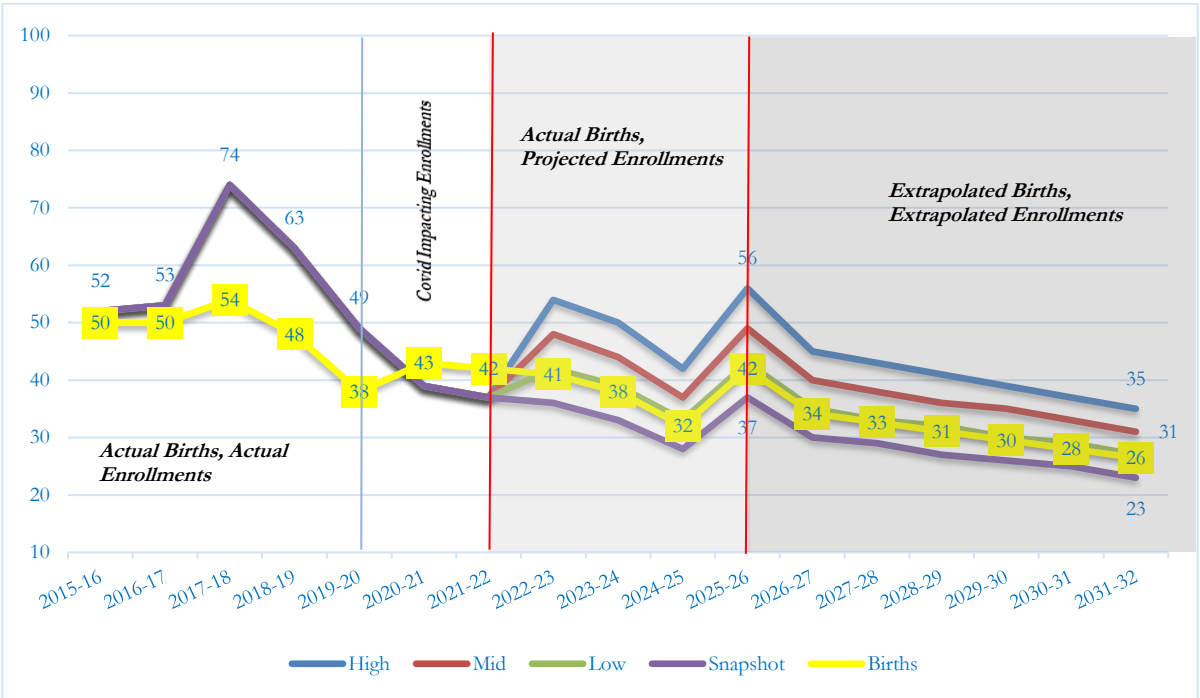
Graph 26: Oakton Attendance Area Births, Kindergarten Enrollments and Projections



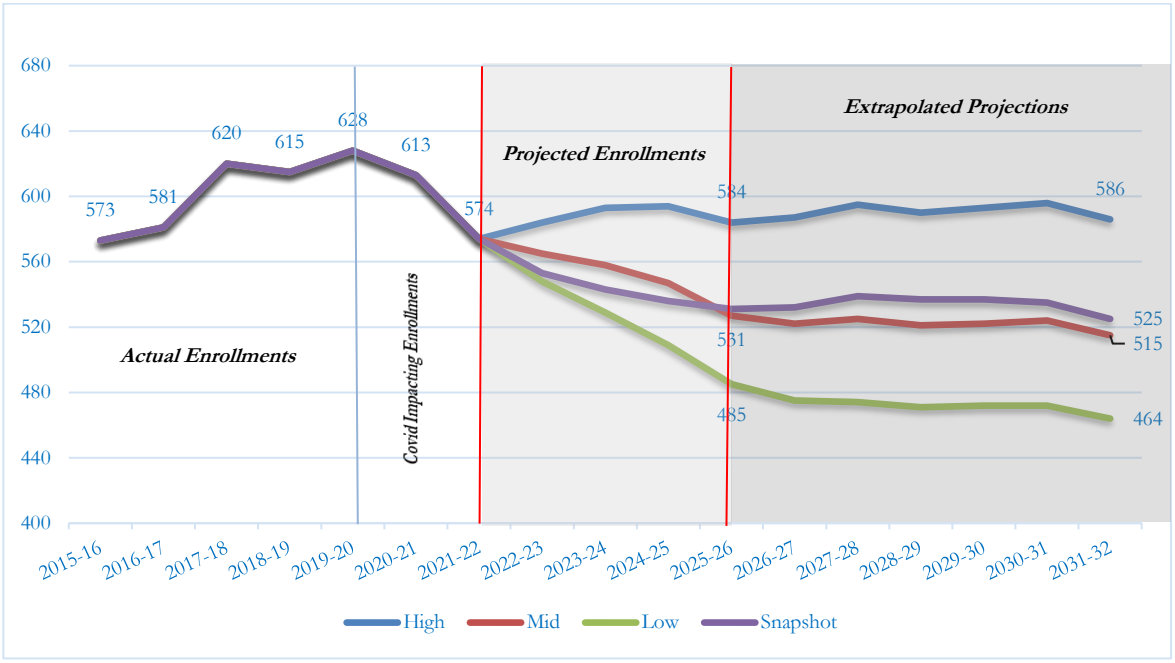
Graph 27: Orrington Attendance Area K-5 Total Enrollments and Projections



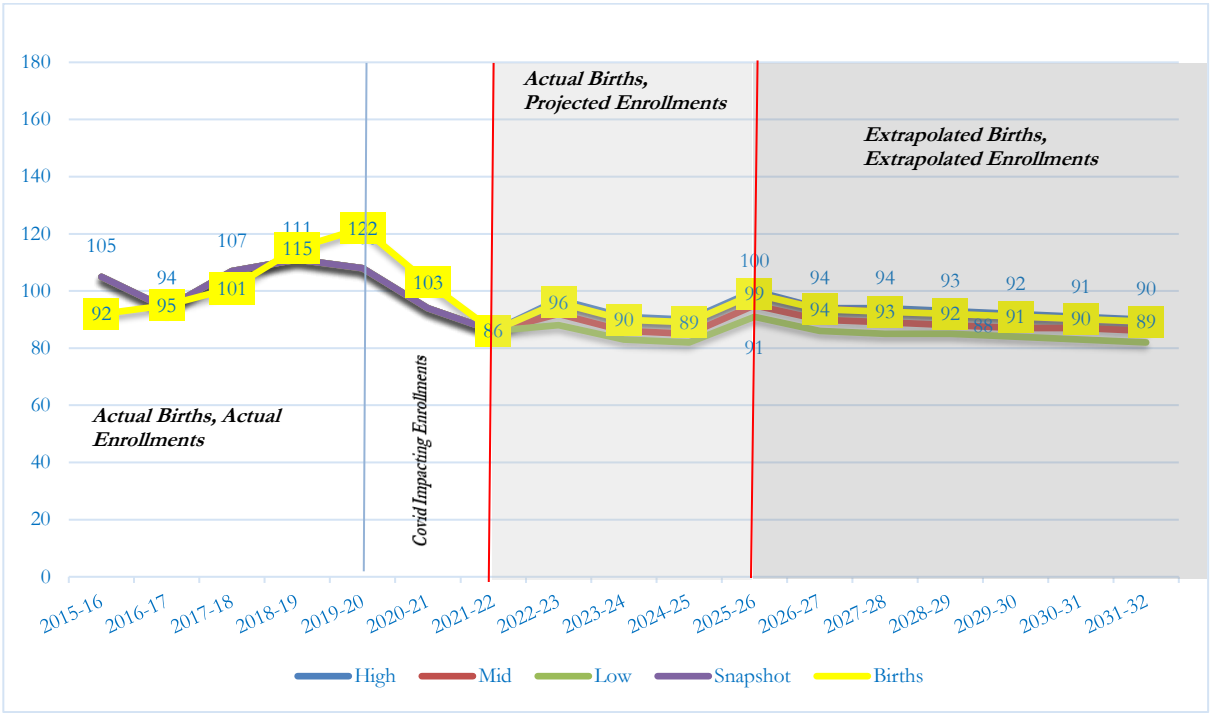
Graph 28: Orrington Attendance Area Births, Kindergarten Enrollments and Projections



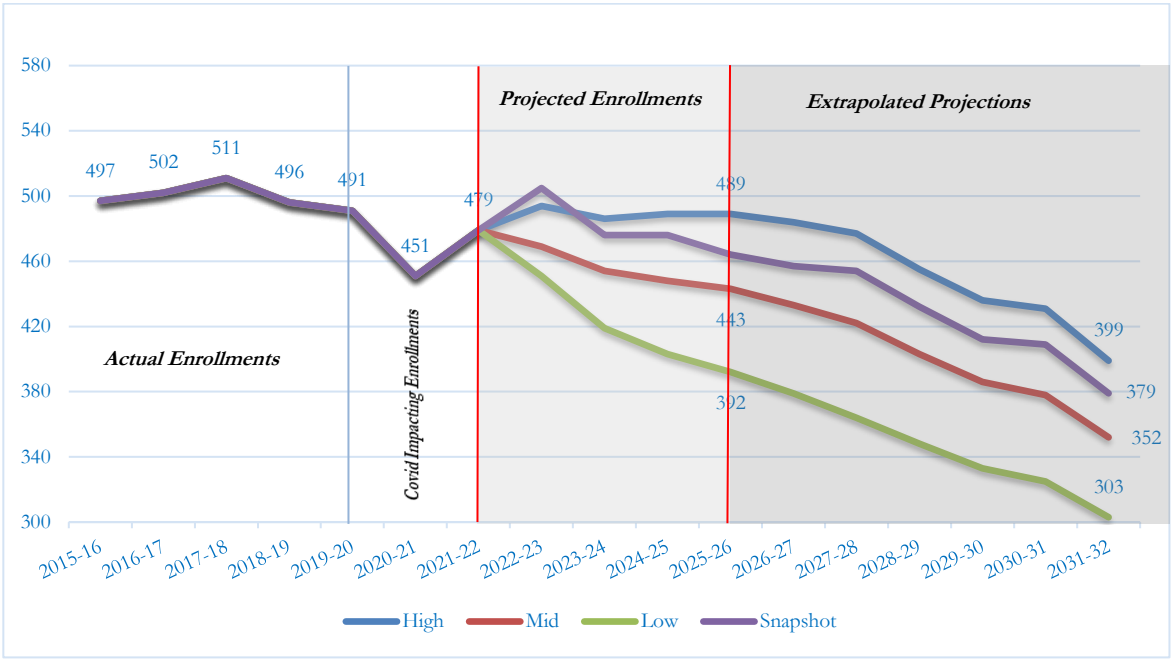
Graph 29: Walker Attendance Area K-5 Total Enrollments and Projections



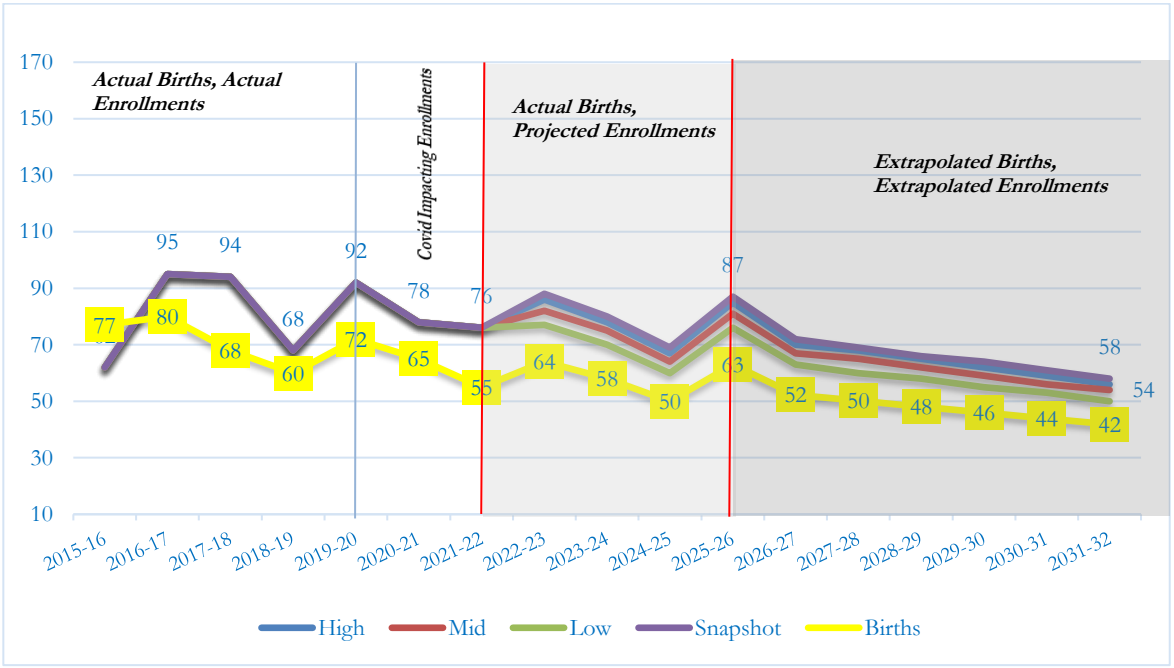
Graph 30: Walker Attendance Area Births, Kindergarten Enrollments and Projections



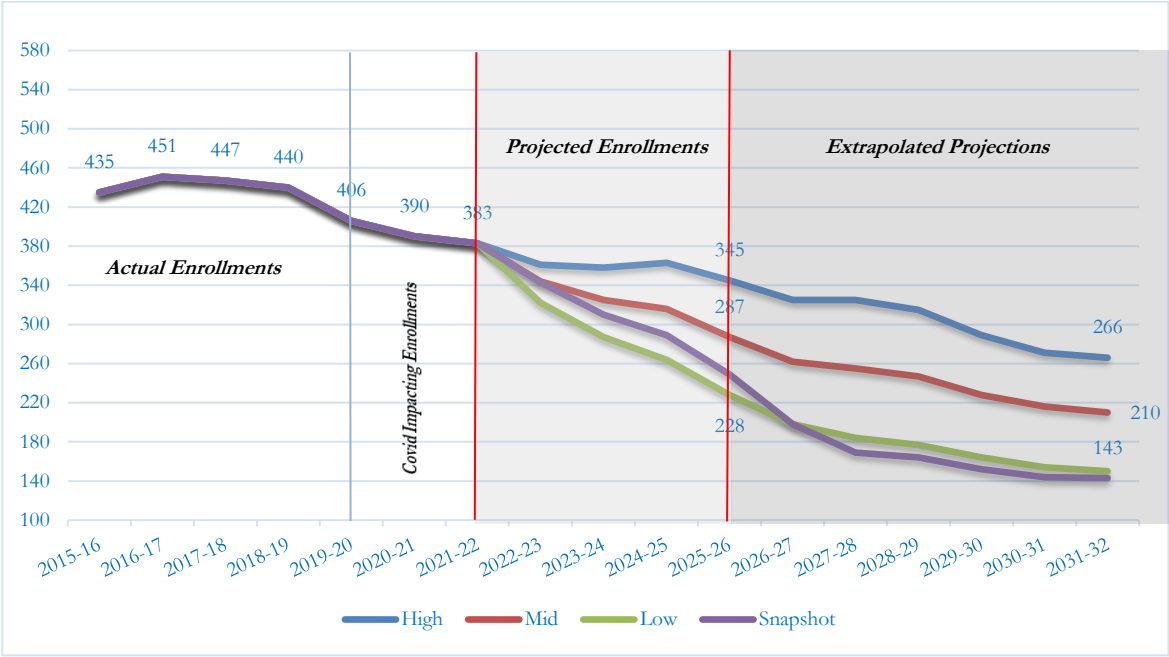
Graph 31: Washington Attendance Area K-5 Total Enrollments and Projections



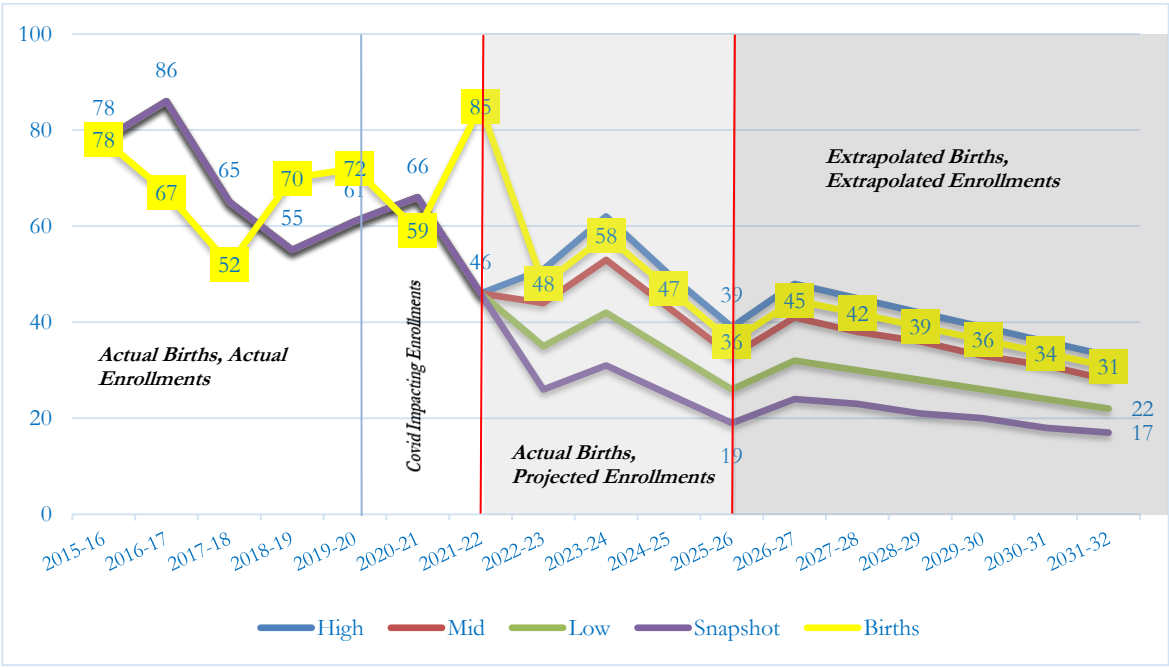
Graph 32: Washington Attendance Area Births, Kindergarten Enrollments and Projections



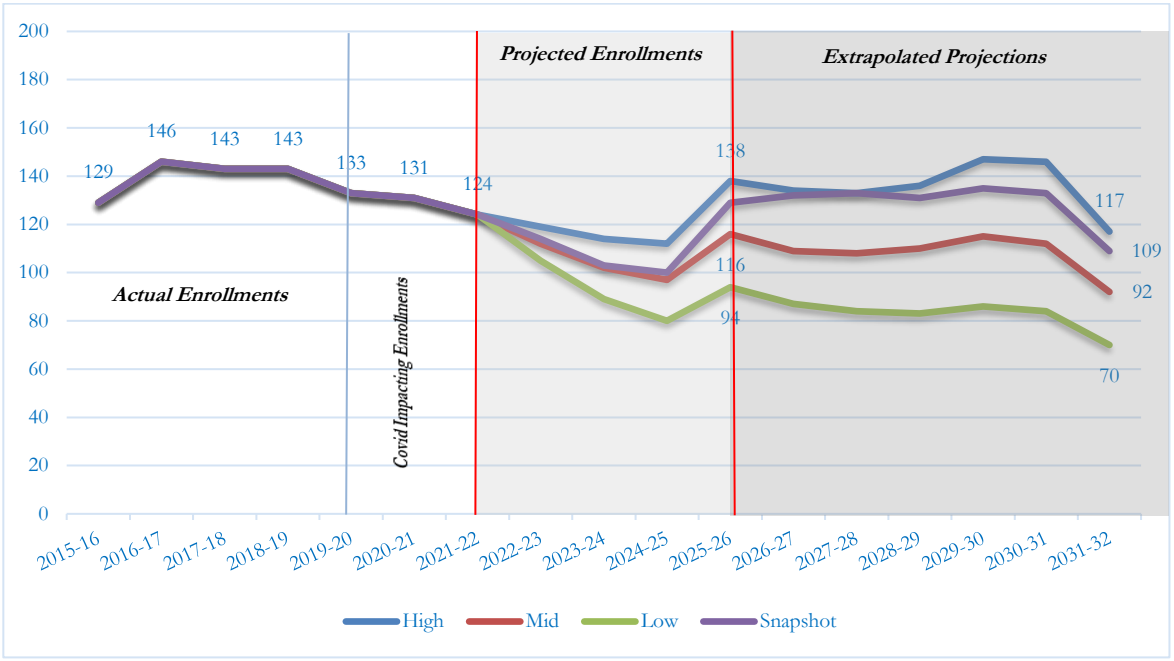
Graph 33: Willard Attendance Area K-5 Total Enrollments and Projections



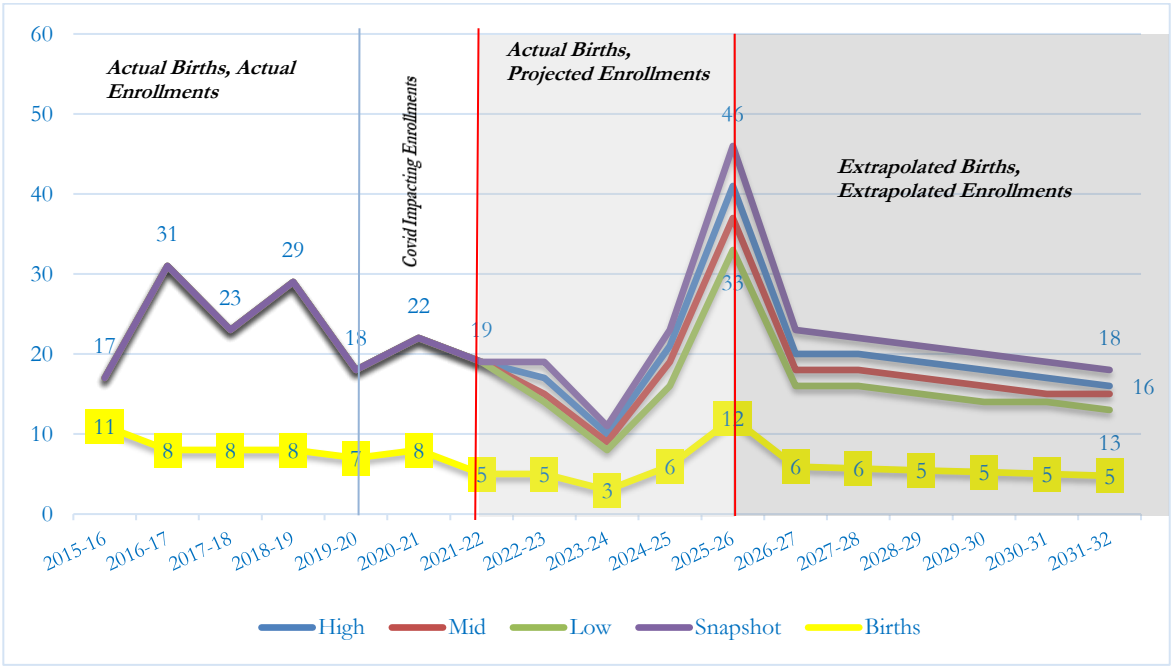
Graph 34: Willard Attendance Area Births, Kindergarten Enrollments and Projections



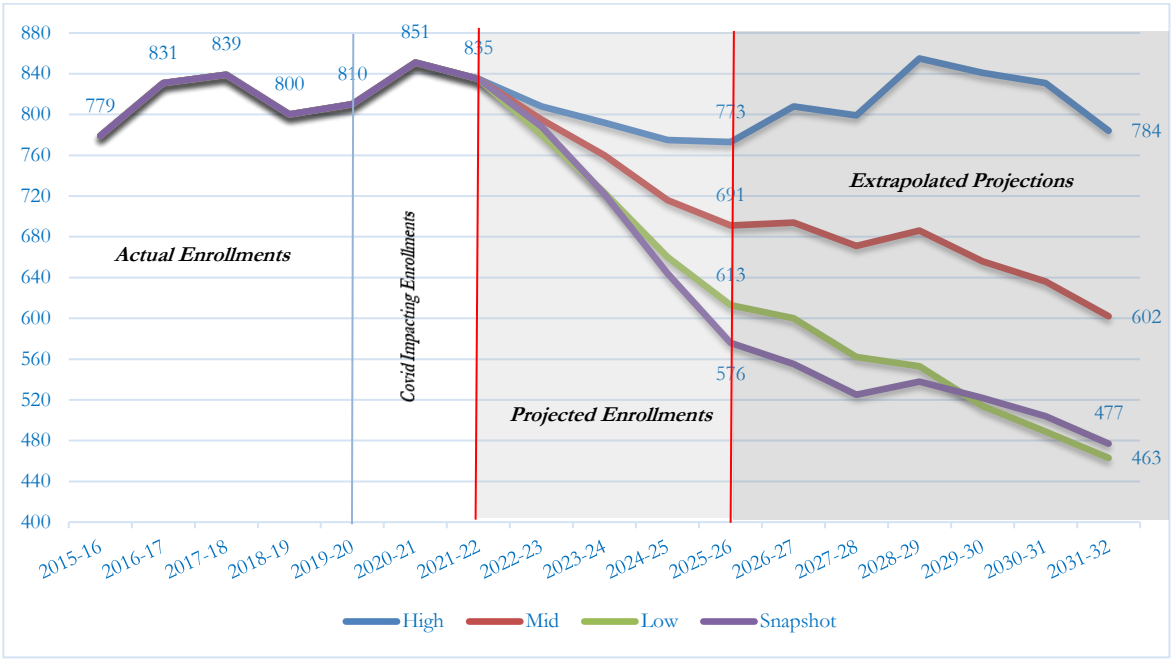
Graph 35: Willard Island Attendance Area K-5 Total Enrollments and Projections



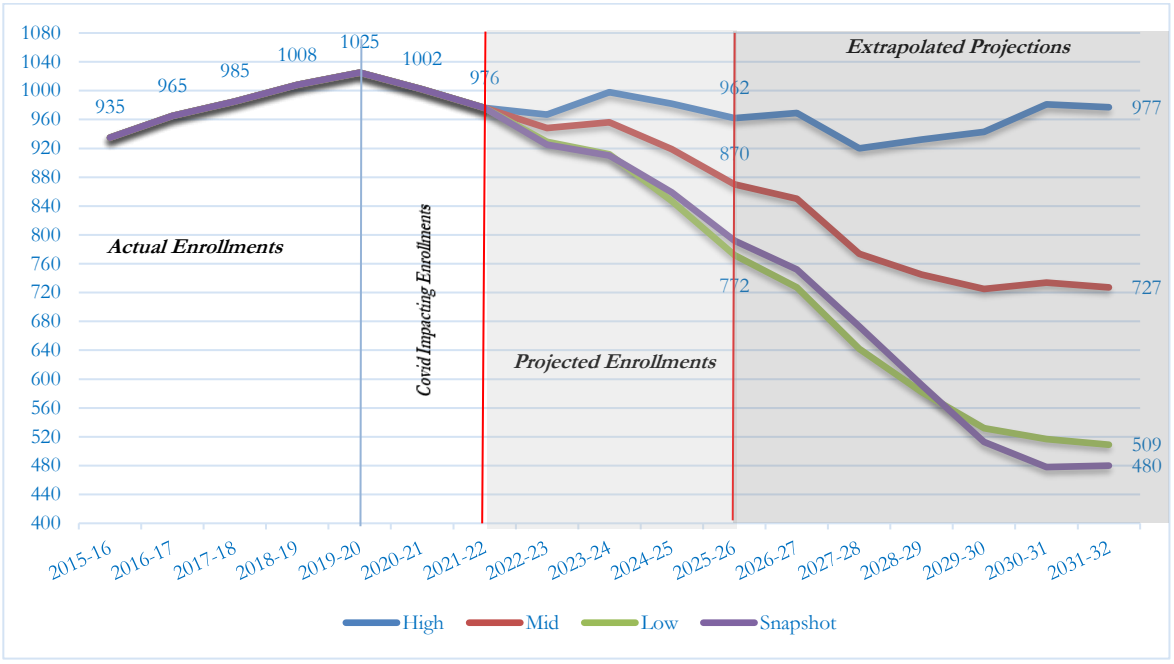
Graph 36: Willard Island Attendance Area Births, Kindergarten Enrollments and Projections



Graph 37: Chute Attendance Area Grades 6-8Total Enrollments and Projections



Graph 38: Haven Attendance Area Grades 6-8Total Enrollments and Projections



Graph 39: Nichols Attendance Area Grades 6-8Total Enrollments and Projections

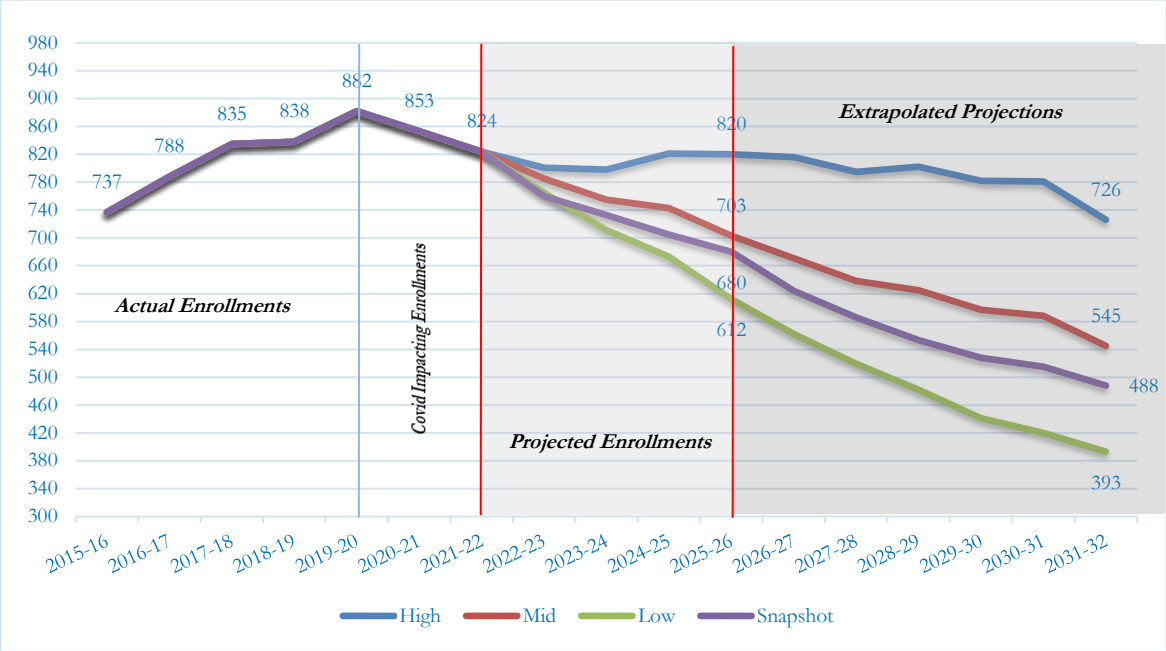


Table 30: Student Race Breakdown by Attendance and Sub Areas

Counts	Race/Ethnicity								
Row Labels	**American Indian**	**Asian**	**Black**	**Hispanic**	**Multi-racial**	**Pacific Islander**	**Undefined**	**White**	**Grand Total**
Attendance/Sub Area									
Dawes	**20**	**228**	**2494**	**2517**	**561**	**3**		**2055**	**7878**
1			28	28	35			91	182
2	2	15	97	96	32			126	368
3		5	214	135	55			161	570
4			154	85	41			145	425
5			57	102	29			103	291
6			40	63	8			97	208
7		19	70	48	47			70	254
8		3	162	164	4			30	363
9			35	12	2			43	92
10		12	135	53	24			222	446
11		17	44	97	14			100	272
12		9	6	22	27			106	170
13		4	89	111	12			20	236
14		2	124	85	20			116	347
15	2	53	213	312	23			133	736
16	4	12	151	159	10			42	378
17		3	352	200	52			89	696
18			35	89	24			174	322
19		31	143	107	7	3		37	328
20	10	11	166	75	32			37	331
21		29	63	332	12			17	453
22		3		4					7
23	2		116	138	51			96	403
Dewey	**11**	**1015**	**1286**	**1260**	**722**	**20**		**4193**	**8507**
101		37	6	17	52			162	274
102		153	26	46	7	6		60	298
104		14	49	17	24			100	204
105		36	7		13			104	160
106		16	10	10	7			95	138
107		139	27	32	4			66	268
108		35	5	9	13			51	113
109		68	17	20	33			65	203
110		59		4	31			50	144
111		10	12	14	2			70	108
113		9	70	2	45			156	282
114		72	37	16	60			84	269

115		47	11	3	15			53	129
116		105	114	63	19			162	463
117		1			23			151	175
118		19	44	23	29			202	317
119			115	106	20			163	404
120		66	78	62	18	1		202	427
121		9		2	33			26	70
122		5	3	16	16			305	345
123		8	164	45	33			160	410
124		52	24	40	39			106	261
125	2	13	14	72	7	13		198	319
126		5	12		10			21	48
127		14	87	168	69			471	809
128	9	6	243	392	34			245	929
129		17	9	44	53			542	665
130			102	37	13			123	275
Kingsley	**14**	**246**	**2724**	**1934**	**738**	**10**	**1**	**4150**	**9817**
200		22	30	27	16		1	296	392
201		10	10	7	41	6		317	391
202		4		28	24			211	267
203				49	2			271	322
204		23		17	31			177	248
205			5	18	7			103	133
206		5		3	31			186	225
207				13				33	46
208			22	20	7			169	218
209		2	5	34	12			83	136
210		39	28	56	36			129	288
211		29	24	10	31			195	289
212		20	7	13	39			31	110
213		10	42	9	14			232	307
214		5	7	40	29			148	229
215		12		19	32			282	345
216		38	47	34	20			380	519
217		1		3	18			177	199
218			221	200	16			55	492
219		4			78			475	557
220	11	1	482	306	78			47	925
221	2		195	201	15			8	421
222		2	453	36	20			43	554
224		15	380	174	35	4		32	640
225		4	307	113	64			33	521

226	1		459	504	42			37	1043
Lincoln	**80**	**447**	**2394**	**2058**	**1092**	**10**	**1**	**5132**	**11214**
300		6	66	45	48			227	392
301	5				1			79	85
302			1		20			225	246
303		4	3	6	15	3		212	243
304			7	48	48			188	291
305	12	25	51	55	20			123	286
306		8		25	3			70	106
307	18	9	44	54	41			197	363
308			2	7	18			23	50
309		24	66	73	61			205	429
310	3	7	6	54	17			133	220
311		8	24	24	9			110	175
312		18	26	29	16			135	224
313	9	57	61	122	37			283	569
314		55	23	32	26	4		243	383
315		2	9	12	13			50	86
316		5	8	52				54	119
317		3	20		11		1	45	80
318		11	1	6	40			145	203
319	5	6	8	9	35			265	328
320		35	27	25	44			111	242
321		14	46	43	56			138	297
322				21	20			39	80
323		7	125	184	20			65	401
324			118	133	17			138	406
325			154	117	119			319	709
326		21		59	69			133	282
327		7	90	60	23			142	322
328		33	25	34	60			295	447
329		1	85	36	3			153	278
330	2	2	34	31	21			92	182
331		2	87	46	31			99	265
332			36	33	39			141	249
333	9	15	221	263	16	3		50	577
334		18	67	86	8			64	243
335			34	11	4			7	56
336	9	39	416	22	2			77	565
337	8	5	403	201	61			57	735
Lincolnwood	**31**	**300**	**2873**	**1771**	**759**	**14**		**4292**	**10040**
400	2		4					57	63

401	14	14	15	52	46			200	341
402		14	17	18	3			285	337
403		20	4	31	29			329	413
404		1	11	19	14			289	334
405		17			33			294	344
407		22		29	4			222	277
408		12		11	57			344	424
409		18			20			174	212
410	2	2		10	42	6		343	405
411		16	11	3	19			248	297
412		35	20	13	8			358	434
413								98	98
414		7	6	14	33			287	347
415			195	32	7				234
416		26	35	22	23			244	350
417		18	20	1	2			145	186
418		10	159	146	9			8	332
419		45	21	11	32			96	205
420		9	279	202	39	4		14	547
421	6	1	393	345	18			61	824
422			434	159	76			41	710
423			322	178	34			41	575
424		7	45	60	15			13	140
427			218	80	78	4		7	387
428			196	59	48			7	310
429		1	100	81	16			28	226
430			160	91	24			30	305
431	7	4	208	102	30			29	380
432		1		2					3
Oakton	**2**	**438**	**4214**	**2266**	**825**	**4**		**2784**	**10533**
500		4	43	61	30			204	342
501		23	41	33	38			122	257
502	2		350	77	48			229	706
503		28	21	40	20			85	194
504		9	6	2	1			119	137
505			42	32	10			63	147
506			29	6	11			107	153
507		47	21	31	22			73	194
508		22	31	42	53			263	411
509		14	285	123	16			101	539
510		17	54	26	9			182	288
511		11	79	51	13			40	194

512			8	25	3			38	74
513			33	49	53			122	257
515		27	198	54	37			95	411
516		23	78	28	67			120	316
517		8	212	184	8	4		60	476
518		3	85	108	31			157	384
519		7	78	62	16			79	242
520		32	168	112	16			39	367
521			152	61	8			45	266
522		16	190	77	12			42	337
523		9	141	95	32			62	339
524		1	246	35	20			73	375
525		8	17	39				22	86
526			111	118	58			102	389
527		59	327	103	62			52	603
528		52	403	111	19			15	600
529		4	417	235	34			38	728
530		14	348	246	78			35	721
Orrington		**435**	**337**	**373**	**458**			**3799**	**5402**
600		33	4	11	30			196	274
601		2			2			163	167
602		23		17	9			383	432
603		23		17	48			352	440
604		69	10	49	51			151	330
605		42		27	30			297	396
606		44	13	17				243	317
607		41		12	24			272	349
608		11	11	8	14			365	409
609		24	21	4	10			92	151
610			6	4	11			78	99
611		36	59	22	3			66	186
612		9	6	27	31			67	140
613		8	47	10	65			133	263
614		1	2	6	23			325	357
615		40		50	40			435	565
616		6	5	8	2			91	112
617				1				44	45
618					22			28	50
619		17	83	8	11			3	122
620		6	70	75	32			15	198
Walker	**5**	**1062**	**2496**	**2353**	**824**	**5**		**3125**	**9870**
700		14	10	2	15			28	69

701			3	16				69	88
702		28	14	13	8			83	146
703		8	46	30	26			132	242
704		20	12	7	5			177	221
705		1	9	37	15			139	201
706		25		75	10			193	303
707	3	20	11	35	22			122	213
708		2	28	31	10			53	124
709		16	32	27	52			169	296
710		33	23	8	2			13	79
711		23	163	148	42			34	410
712		27	45	35	15			17	139
713		15	131	31	56			161	394
714	1	19	50	14	11			25	120
715		27	24	35	3			125	214
716		18	46	53	1			21	139
717				3	7			55	65
718		10	47	92	24			73	246
719		30	6	24	39			242	341
720		24	106	99	24			10	263
721		11	11	26	21			60	129
722		67	12	69	33			112	293
723			189	89	9	2		33	322
724		27		12	1			67	107
725		3		23	1			14	41
726		3	195	123	46			13	380
727		7	315	243	35			41	641
728		41	41	37	20	3		27	169
729	1	61	139	118	20			133	472
730		56	168	97	16			82	419
731		112	39	87	48			73	359
732		80	45	36	32			91	284
733		127	76	173	38			145	559
734		61	54	33	39			102	289
735		44	42	101	26			56	269
736			166	73	31			48	318
737		2	85	101	11			63	262
738			113	97	10			24	244
Washington	**12**	**153**	**1883**	**2074**	**817**	**22**		**3614**	**8575**
800			4	42				124	170
801			1	37	3			104	145
802		18			66			80	164

803			20		8			180	208
804		5	70	44	23			162	304
805			48	155	82			110	395
806			61	131	18			53	263
807	9	10	17	20	38			82	176
808		17	1	31	56			140	245
809	3		79	100	3			143	328
810			37	354	25			10	426
811			33	64	37			160	294
812			59	41	12			209	321
813			53	95	4			81	233
814		9	25	18	16			188	256
815			22	20	26			124	192
816			3	97	8			88	196
817			116	50	8	13		39	226
818		30	142	38	15			10	235
819		7	8	22	39			56	132
820		3	10	32	9			164	218
821		2	3	18	33			168	224
822		26	187	44	14			90	361
823		9	23	10	7			105	154
824		6	1	22	31			154	214
825			58	6	10	9		107	190
826		1	145	13	4			66	229
827		8	11	20	47			119	205
828			19	20	20			143	202
829			35	52	44			48	179
830			259	131	48			85	523
831			127	107	39			45	318
832			64	138	5			46	253
833		2	142	102	19			131	396
Willard	**1**	**250**	**1551**	**1561**	**596**	**8**	**3**	**5066**	**9036**
900				25	21			92	138
901					12			91	103
902		8	20	58	14			307	407
903			20	15	26			277	338
904			13		12			232	257
905			12	11	20			132	175
906			7	8	3			113	131
907				13	16			181	210
908				3				199	202
909		27	5	59	12			334	437

910		13			2			175	190
911		12	18	40	21			129	220
912		6	15	15	15			181	232
913			4	9	2			201	216
914		8	10	15	18			284	335
915		17	51	25	53			174	320
916		70	6	44	27		1	273	421
917			16	2	27			230	275
918			9	2	39			252	302
919		3		40	28			47	118
920		8	56	19	5			200	288
921		16	19	3	23			204	265
922			11	64	11			195	281
923							2	111	113
924		21		3	25			209	258
926		3	30	19	34			128	214
927		17	220	82	56			23	398
928			310	51	8			12	381
929			229	417	13			22	681
930	1	12	275	348	13	8			657
931		9	75	51	32			33	200
932			120	120	8			25	273
Grand Total	**176**	**4574**	**22252**	**18167**	**7392**	**96**	**5**	**38210**	**90872**

Table 31: Magnet School Attendance by Attendance Area Residence and School Year

Student Counts*	School Years											
Grades	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Grand Total
Blank	**47**	**42**	**37**	**52**	**51**	**44**	**45**	**34**	**32**	**23**	**21**	**428**
1	9	5	5	10	3	3	9	5	4	1	1	55
2	6	8	3	5	9	4	4	7	4	4	2	56
3	6	7	7	5	6	9	3	2	9	3	3	60
4	6	6	6	8	5	4	10	3	1	6	2	57
5	3	6	7	6	8	5	3	7	4		4	53
6	3	3	5	6	6	8	4	2	4	3	3	47
7	4	3	2	9	6	6	7	3	2	4	2	48
8	10	4	2	3	8	5	5	5	4	2	4	52
Dawes	**68**	**65**	**67**	**79**	**78**	**74**	**68**	**53**	**49**	**43**	**45**	**689**
1	7	11	7	14	9	7	5	5	3	4	5	77
2	11	6	11	7	13	9	7	5	5	2	2	78
3	5	11	7	10	8	13	10	6	7	7	2	86
4	9	5	12	9	9	7	13	9	5	4	8	90
5	8	9	6	12	8	10	6	12	9	4	4	88
6	5	7	11	7	12	8	7	5	13	6	4	85
7	10	5	8	11	8	12	8	4	3	13	8	90
8	13	11	5	9	11	8	12	7	4	3	12	95
Dewey	**26**	**31**	**33**	**32**	**32**	**28**	**32**	**26**	**26**	**24**	**27**	**317**
1	3	8	4	5	3	4	6	3	3	2	6	47
2	2	2	8	4	4	1	4	4	3	3	2	37
3	7	2	3	8	4	3	1	3	3	3	1	38
4	3	7	2	2	6	2	3	1	2	4	4	36
5	2	3	7	2	2	6	3	2	4	2	4	37
6	3	2	4	6	4	3	7	3	2	4	4	42
7	4	3	2	4	5	4	4	6	3	3	3	41
8	2	4	3	1	4	5	4	4	6	3	3	39
Kingsley	**56**	**54**	**56**	**55**	**57**	**61**	**65**	**51**	**45**	**41**	**36**	**577**
1	10	7	9	5	7	13	10	4	4	2		71
2	11	9	7	9	5	7	11	8	2	4	2	75
3	3	12	9	7	8	7	7	11	8	2	4	78
4	7	4	11	9	8	8	7	6	10	9	2	81
5	6	7	4	10	7	7	7	5	6	8	8	75
6	4	5	8	4	9	7	6	5	5	6	8	67
7	8	3	4	8	4	8	9	5	5	5	6	65
8	7	7	4	3	9	4	8	7	5	5	6	65
Lincoln	**74**	**87**	**85**	**86**	**102**	**102**	**100**	**85**	**84**	**64**	**57**	**926**
1	10	16	13	12	26	11	14	8	11	7	2	130
2	11	11	16	12	12	24	12	12	10	10	6	136
3	8	12	9	17	11	13	22	12	9	6	9	128
4	13	8	12	7	14	11	12	20	10	6	6	119
5	7	12	9	12	8	16	11	11	18	10	4	118

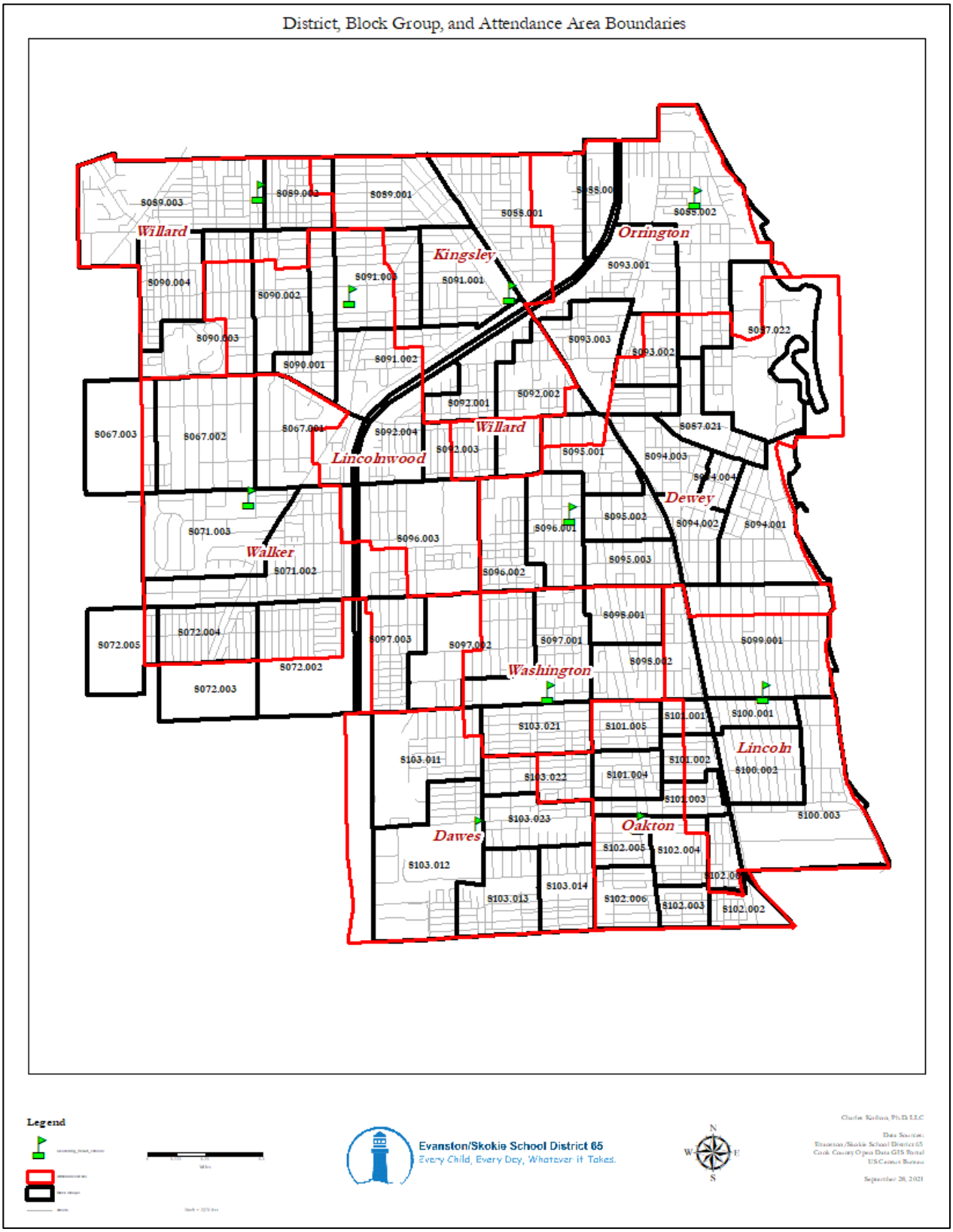
6	7	9	11	8	11	7	12	6	8	10	10	99
7	13	7	8	11	9	11	7	10	7	8	11	102
8	5	12	7	7	11	9	10	6	11	7	9	94
Lincolnwood	**94**	**93**	**99**	**97**	**97**	**99**	**101**	**86**	**101**	**92**	**81**	**1040**
1	7	9	12	13	5	10	11	7	14	8	10	106
2	9	6	9	13	12	6	9	9	8	13	6	100
3	8	10	9	10	14	15	8	10	9	8	13	114
4	14	8	9	10	12	15	15	7	14	11	7	122
5	12	15	9	9	11	12	14	10	8	11	11	122
6	20	13	16	12	11	14	15	14	14	9	11	149
7	13	19	15	15	16	11	16	13	20	16	9	163
8	11	13	20	15	16	16	13	16	14	16	14	164
Oakton	**99**	**106**	**112**	**118**	**112**	**117**	**116**	**120**	**112**	**95**	**91**	**1198**
1	13	15	14	19	12	17	10	14	14	7	13	148
2	14	14	16	13	19	12	15	12	12	15	5	147
3	11	14	16	17	16	17	14	21	12	9	12	159
4	11	12	15	15	17	17	17	15	21	11	10	161
5	19	10	11	17	14	16	19	19	12	17	10	164
6	10	19	11	11	17	15	12	14	16	8	17	150
7	11	10	18	9	9	15	15	11	15	13	10	136
8	10	12	11	17	8	8	14	14	10	15	14	133
Orrington	**13**	**9**	**12**	**14**	**19**	**18**	**18**	**16**	**13**	**11**	**12**	**155**
1		1	1	2	4	2	5	4	1	1	2	23
2	1	1	1	2	2	4	2	3	4	1	1	22
3	3	1	1	1	2	2	4	2	2	4	1	23
4	1	3	2	1	1	2	2	3	1	2	4	22
5	3	1	3	2	1	1	2	1	2	1	2	19
6	2	1	2	3	3	1		1	1		1	15
7		1	1	2	4	2	2		2	1		15
8	3		1	1	2	4	1	2		1	1	16
Walker	**177**	**176**	**174**	**181**	**202**	**205**	**206**	**218**	**187**	**163**	**152**	**2041**
1	28	15	20	15	25	29	20	36	20	19	18	245
2	23	28	16	24	15	24	32	22	28	20	16	248
3	29	24	27	17	25	17	27	34	20	25	18	263
4	18	32	26	29	21	24	20	25	31	16	23	265
5	14	21	29	26	32	23	26	19	24	24	16	254
6	17	14	26	31	28	32	23	29	17	21	23	261
7	26	19	13	24	33	25	32	23	24	17	20	256
8	22	23	17	15	23	31	26	30	23	21	18	249
Washington	**67**	**70**	**77**	**77**	**86**	**84**	**71**	**66**	**62**	**54**	**43**	**757**
1	6	13	8	7	10	6	9	8	6	5	1	79
2	13	5	13	8	9	14	5	8	7	5	5	92
3	10	13	6	13	9	9	13	5	6	7	5	96
4	10	9	15	6	14	9	8	12	5	6	7	101
5	9	10	9	15	9	12	7	9	12	5	5	102
6	5	11	9	10	16	10	9	7	10	10	3	100

7	4	6	11	8	10	15	7	10	6	9	9	95
8	10	3	6	10	9	9	13	7	10	7	8	92
Willard	**42**	**38**	**48**	**49**	**46**	**47**	**49**	**49**	**50**	**46**	**37**	**501**
1	4	4	4	6	8	3	12	4	10	2	1	58
2	1	4	5	6	6	7	2	11	4	9	2	57
3	5	1	5	5	6	7	6	2	7	4	7	55
4	6	5	2	5	5	6	6	5	2	6	5	53
5	10	6	8	2	5	5	8	6	3	2	5	60
6	8	9	6	10	3	6	5	9	9	4	3	72
7	3	7	10	4	9	3	7	5	9	10	4	71
8	5	2	8	11	4	10	3	7	6	9	10	75
Grand Total	**763**	**771**	**800**	**840**	**882**	**879**	**871**	**804**	**761**	**656**	**602**	**8629***

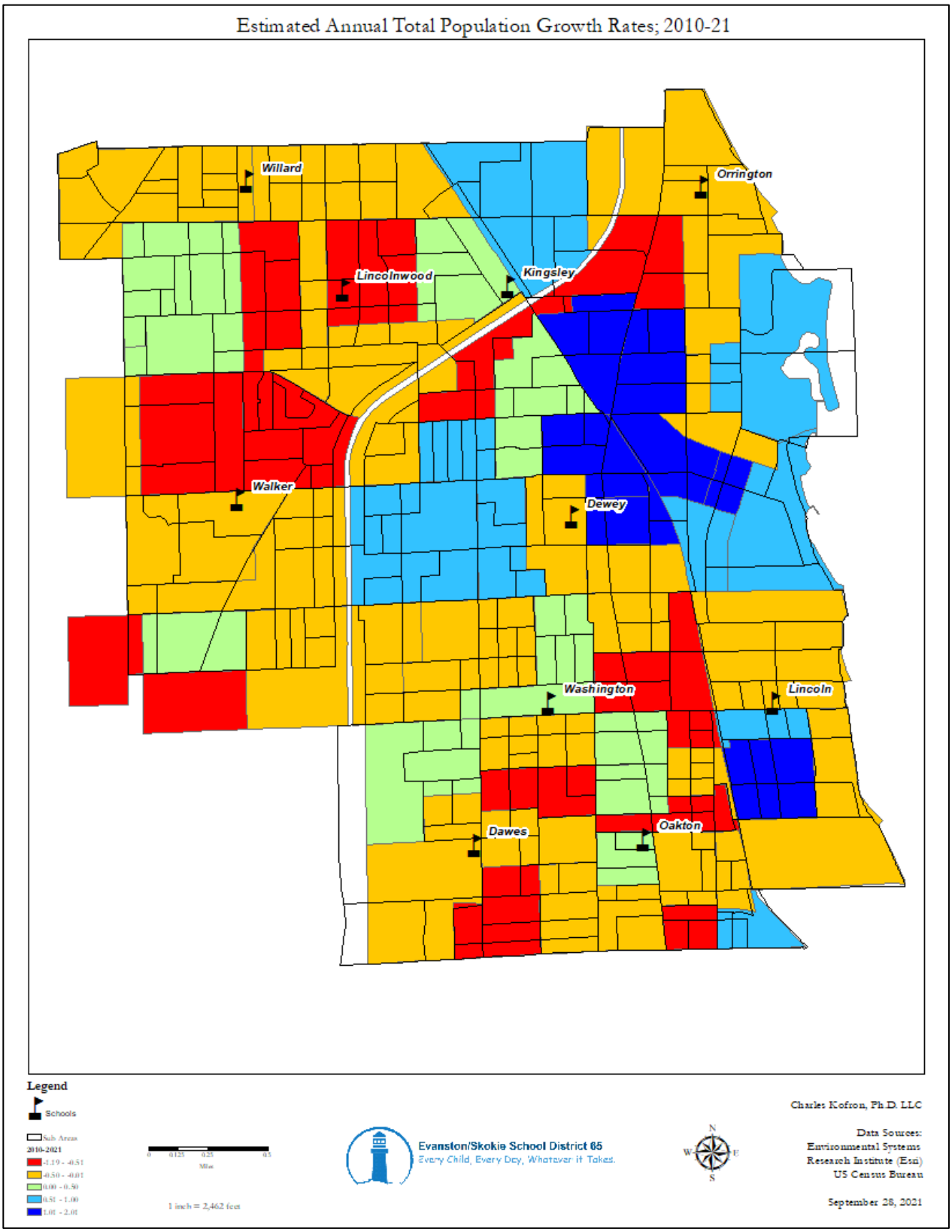
*Excludes records without grades

Maps

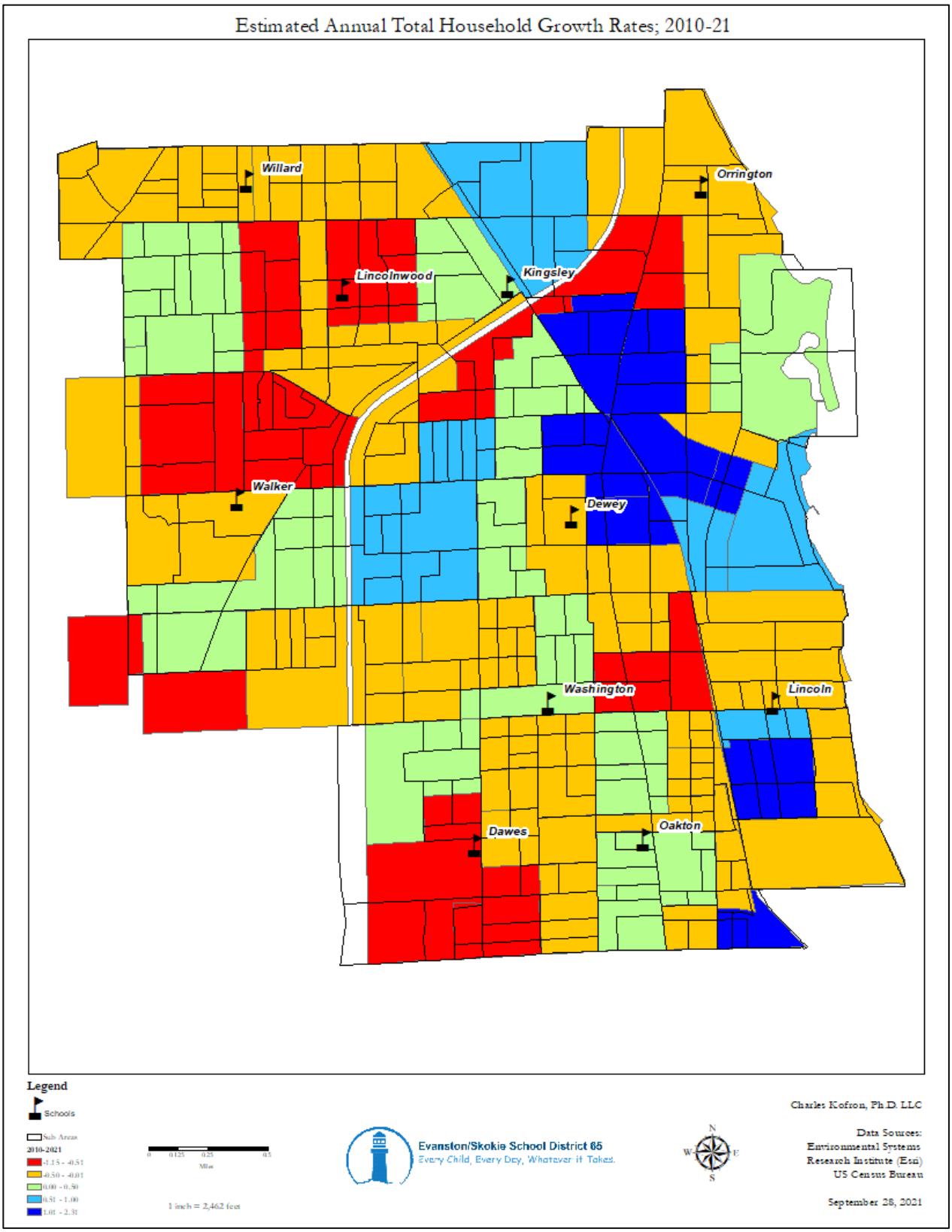
Map 1: District, Attendance Areas, and Block Group Boundaries



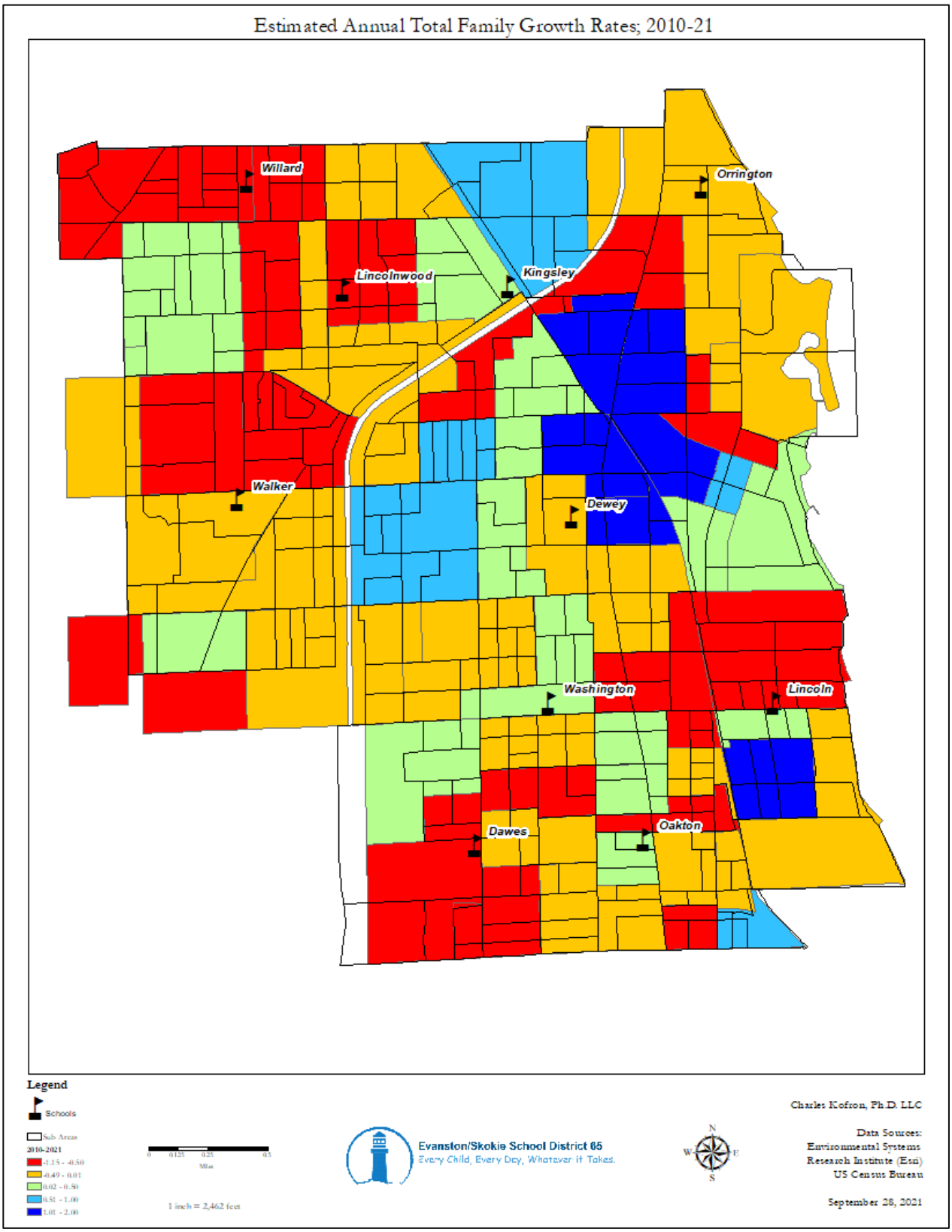
Map 2: Estimated Annual Population Growth Rates



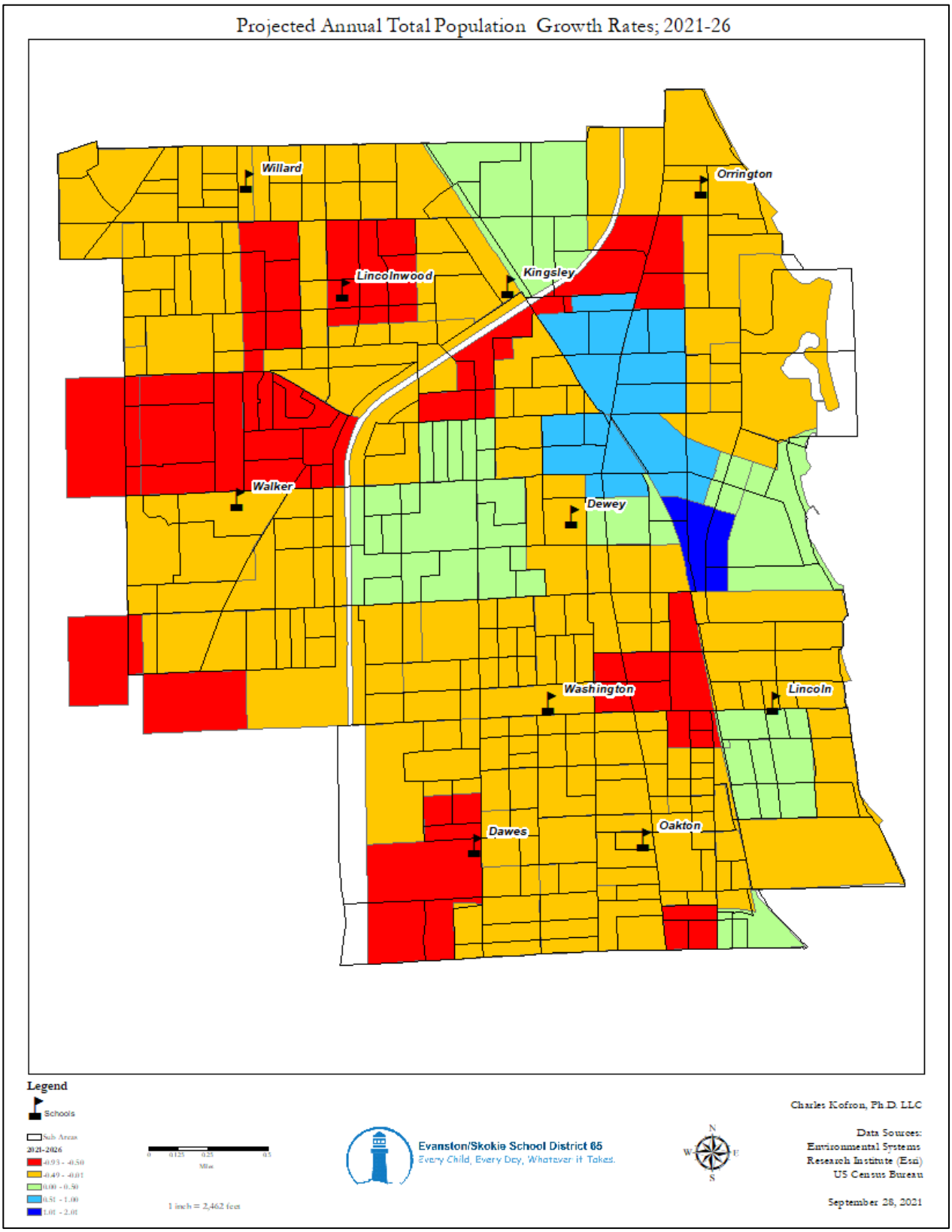
Map 3: Estimated Annual Household Growth Rates



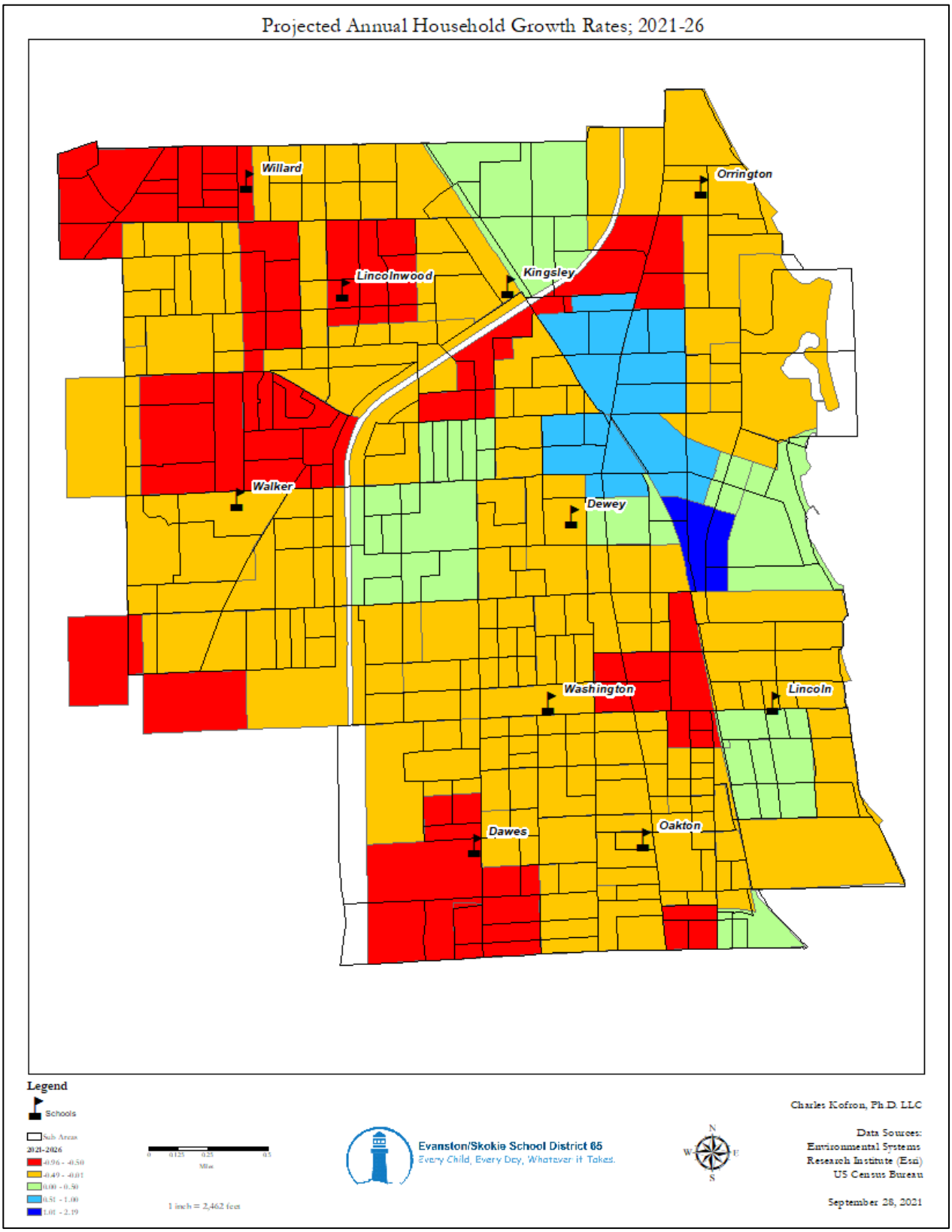
Map 4: Estimated Annual Family Household Growth Rates



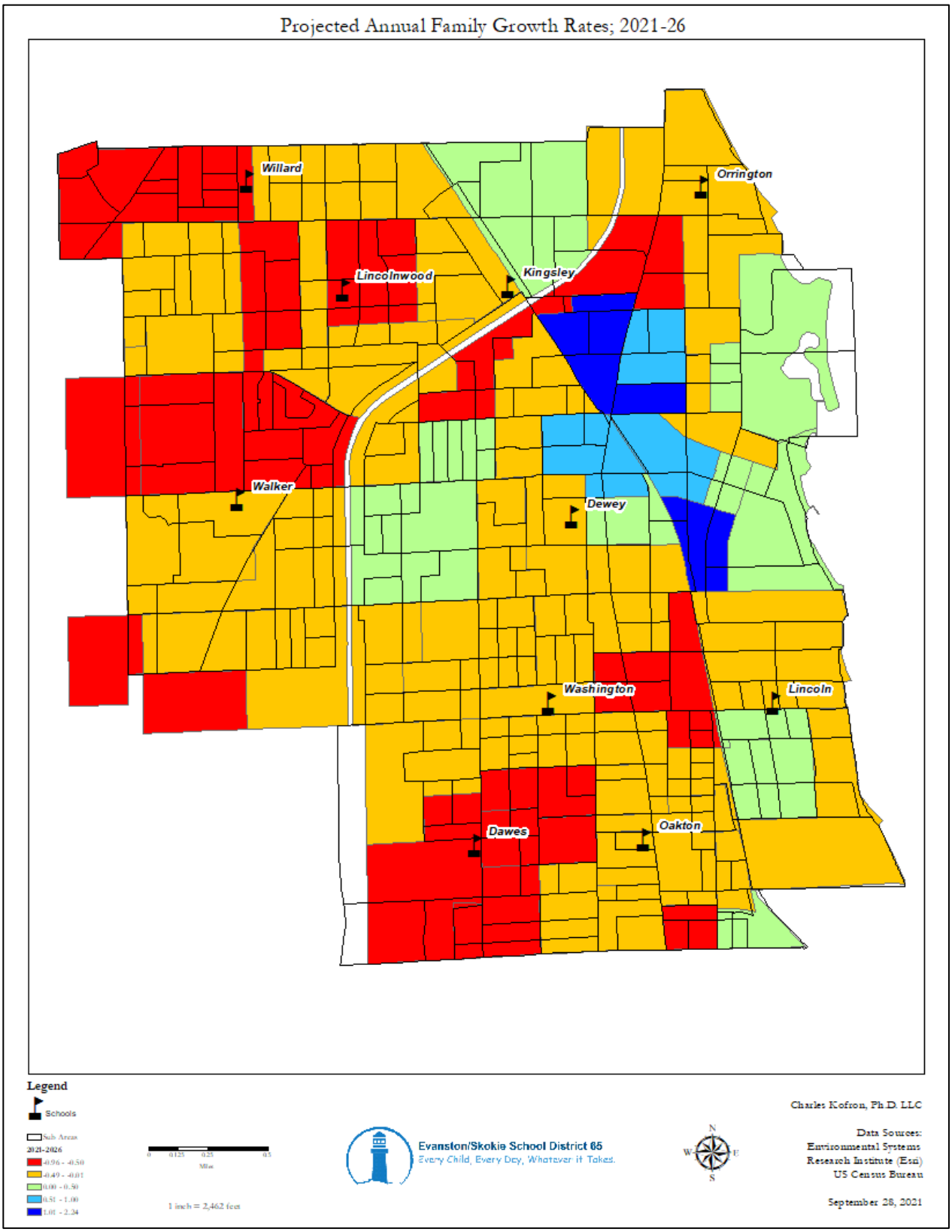
Map 5: Projected Annual Population Growth Rates



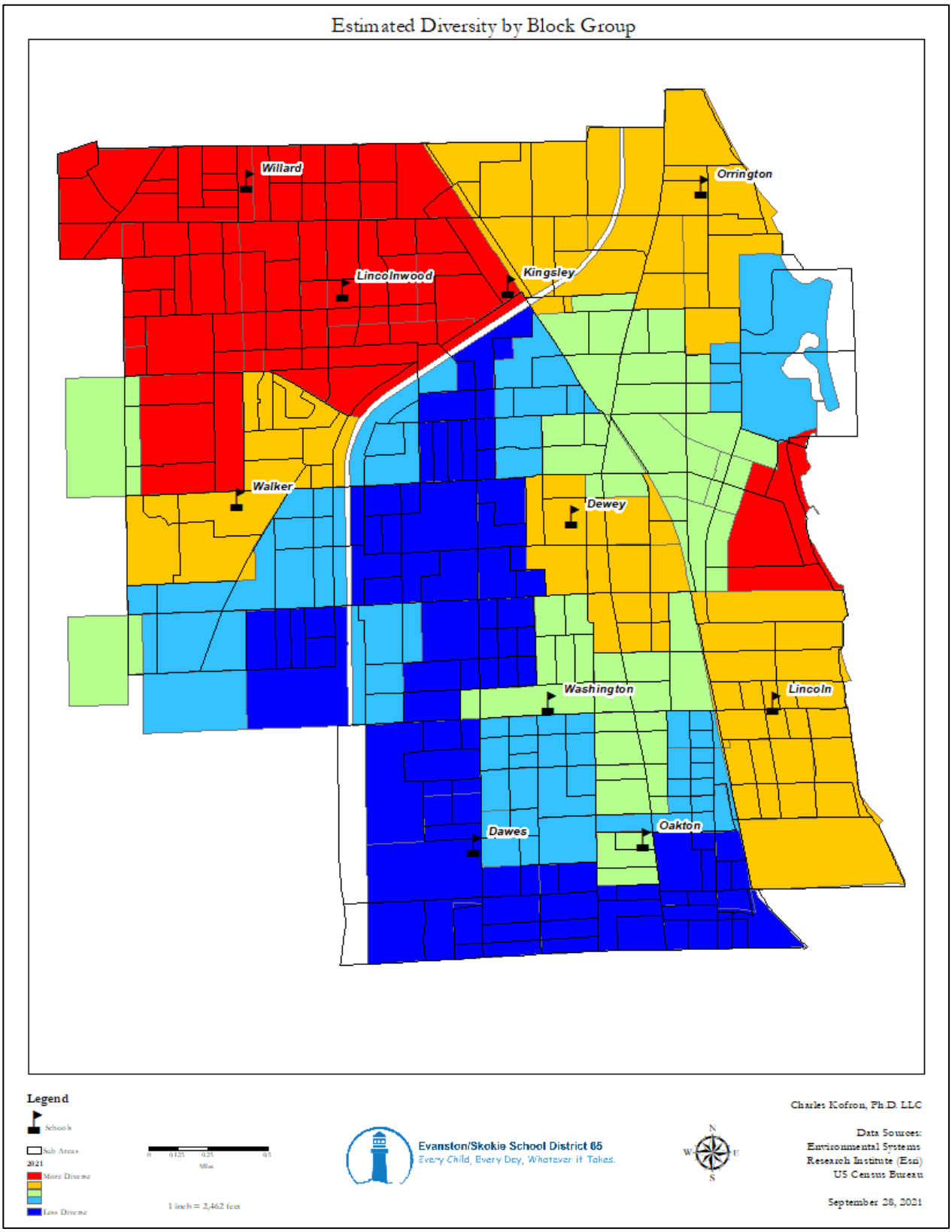
Map 6: Projected Annual Household Growth Rates



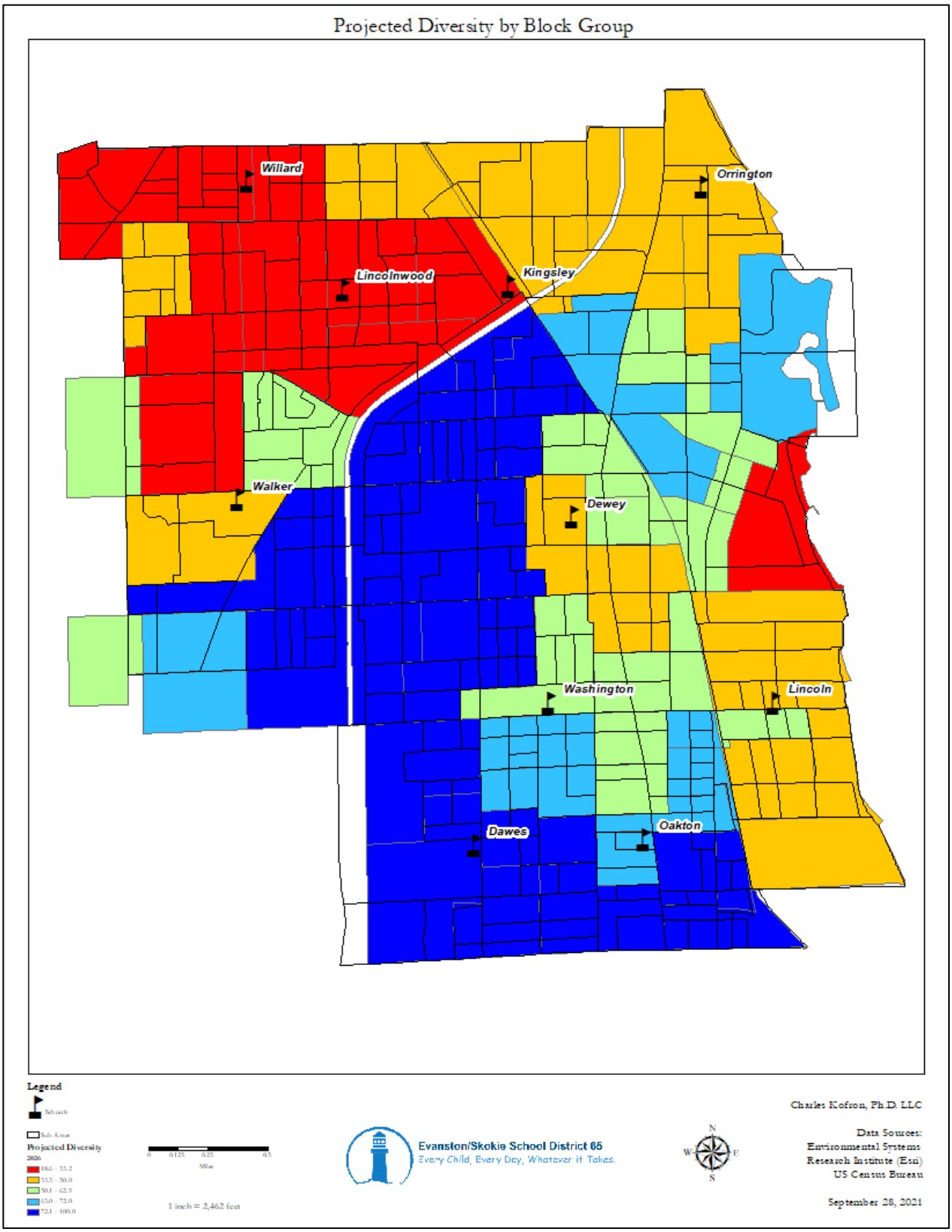
Map 7: Projected Annual Family Household Growth Rates



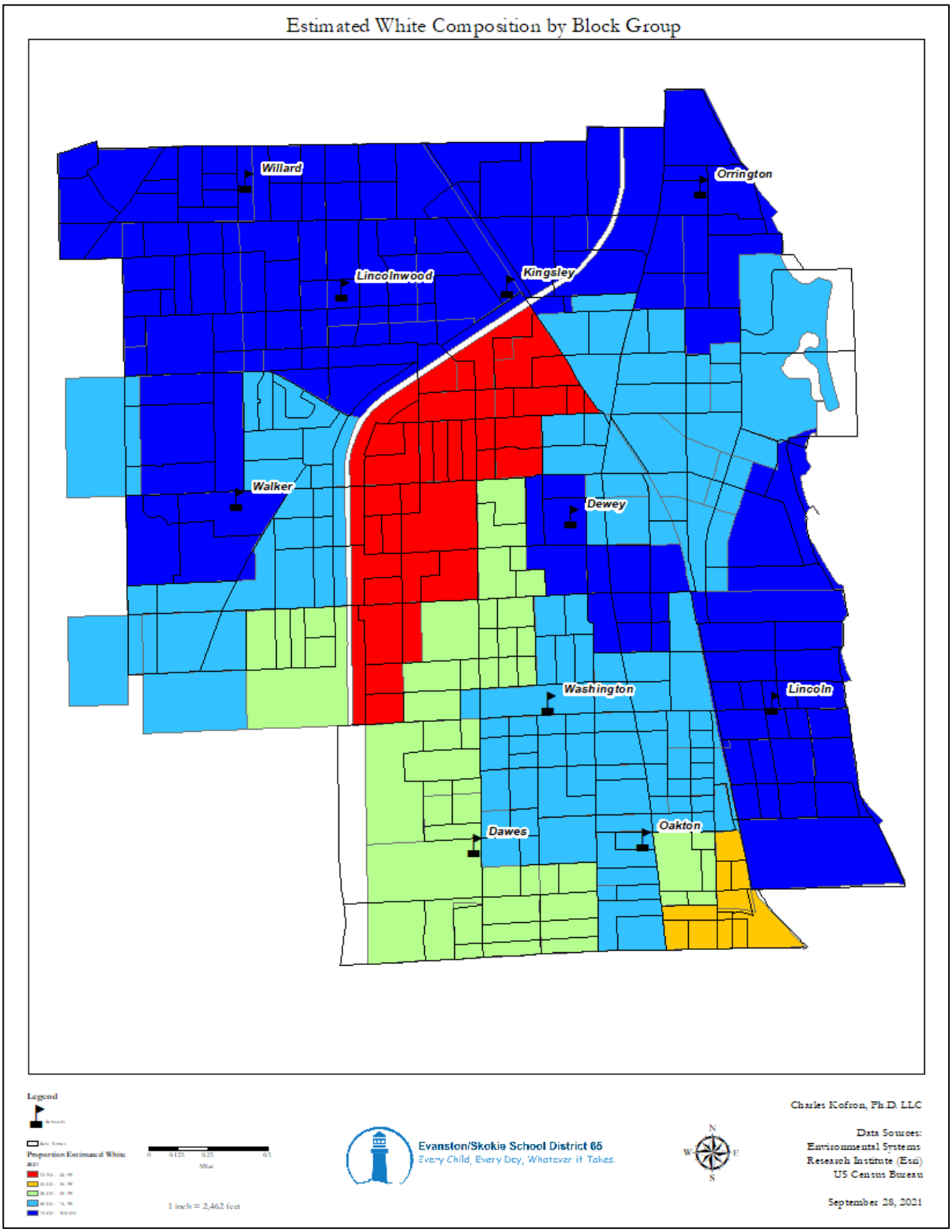
Map 8: Estimated Diversity by Block Group



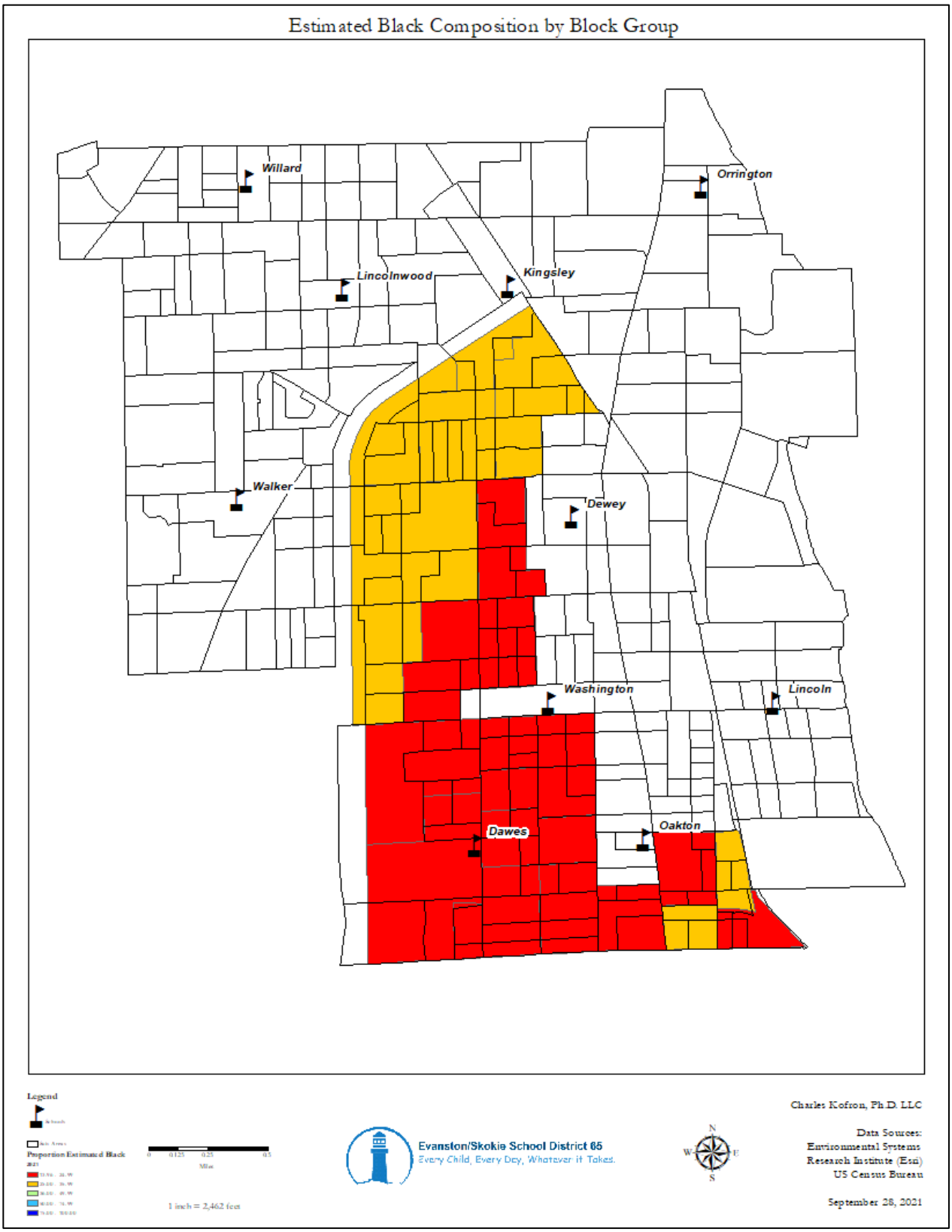
Map 9: Projected Diversity by Block Group



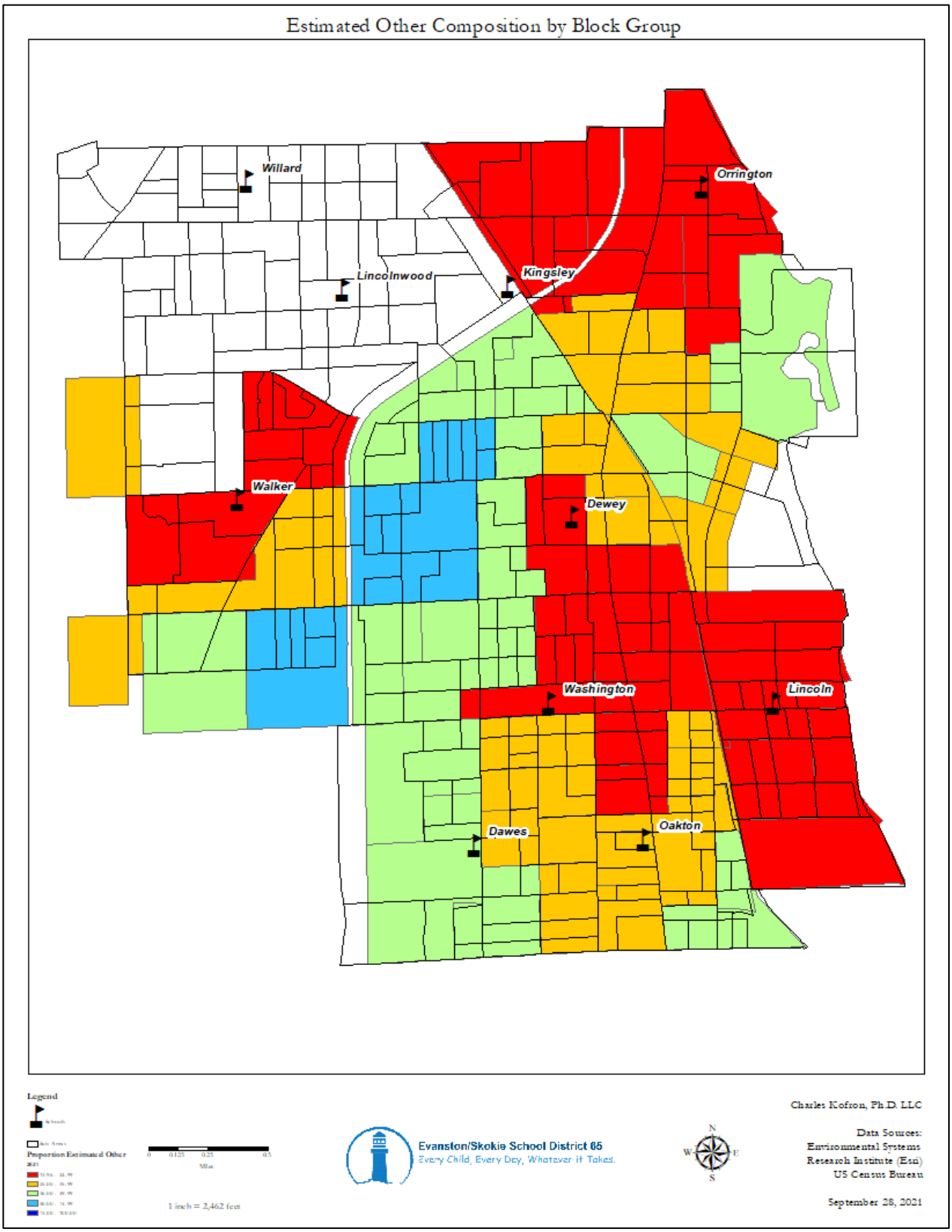
Map 10: Estimated White Composition by Block Group



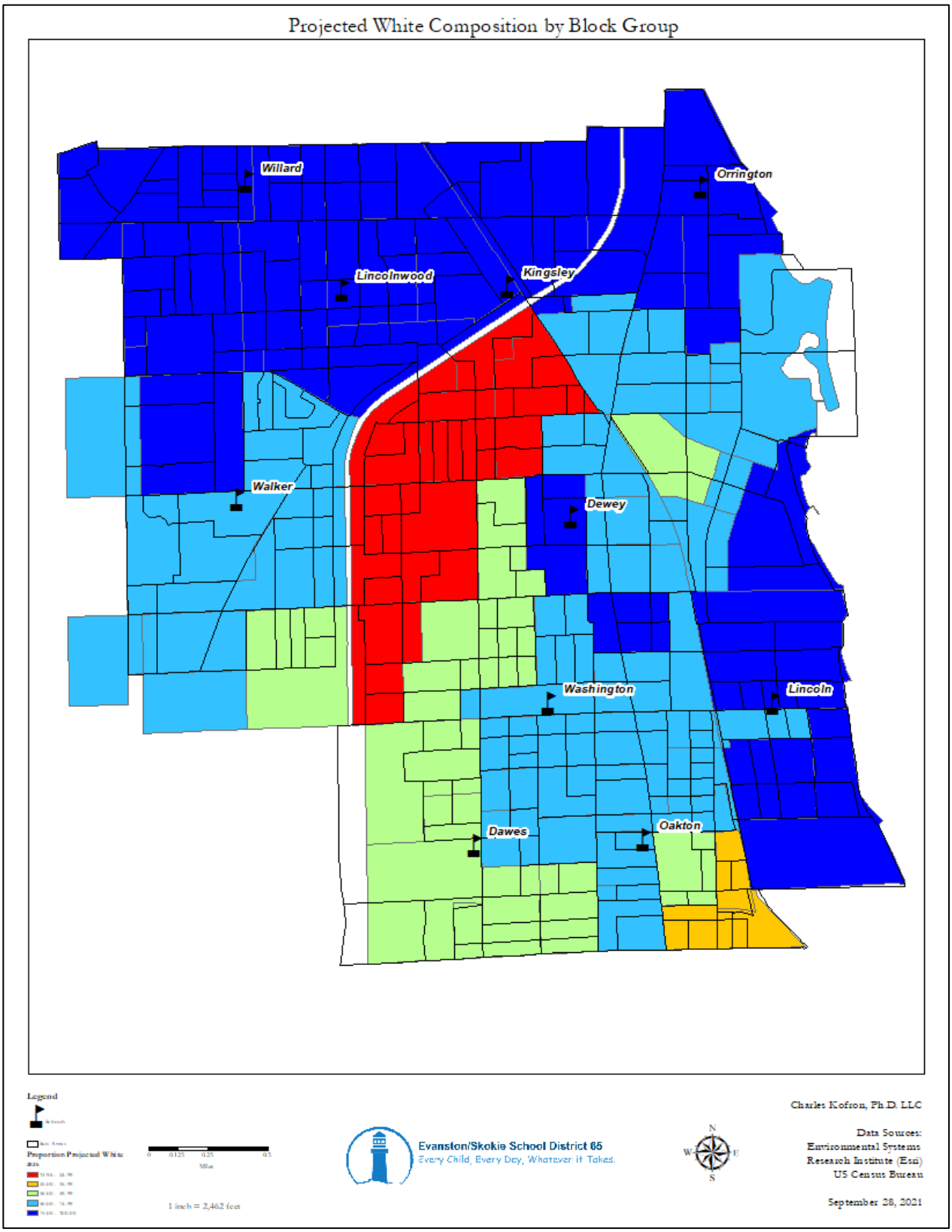
Map 11: Estimated Black Composition by Block Group



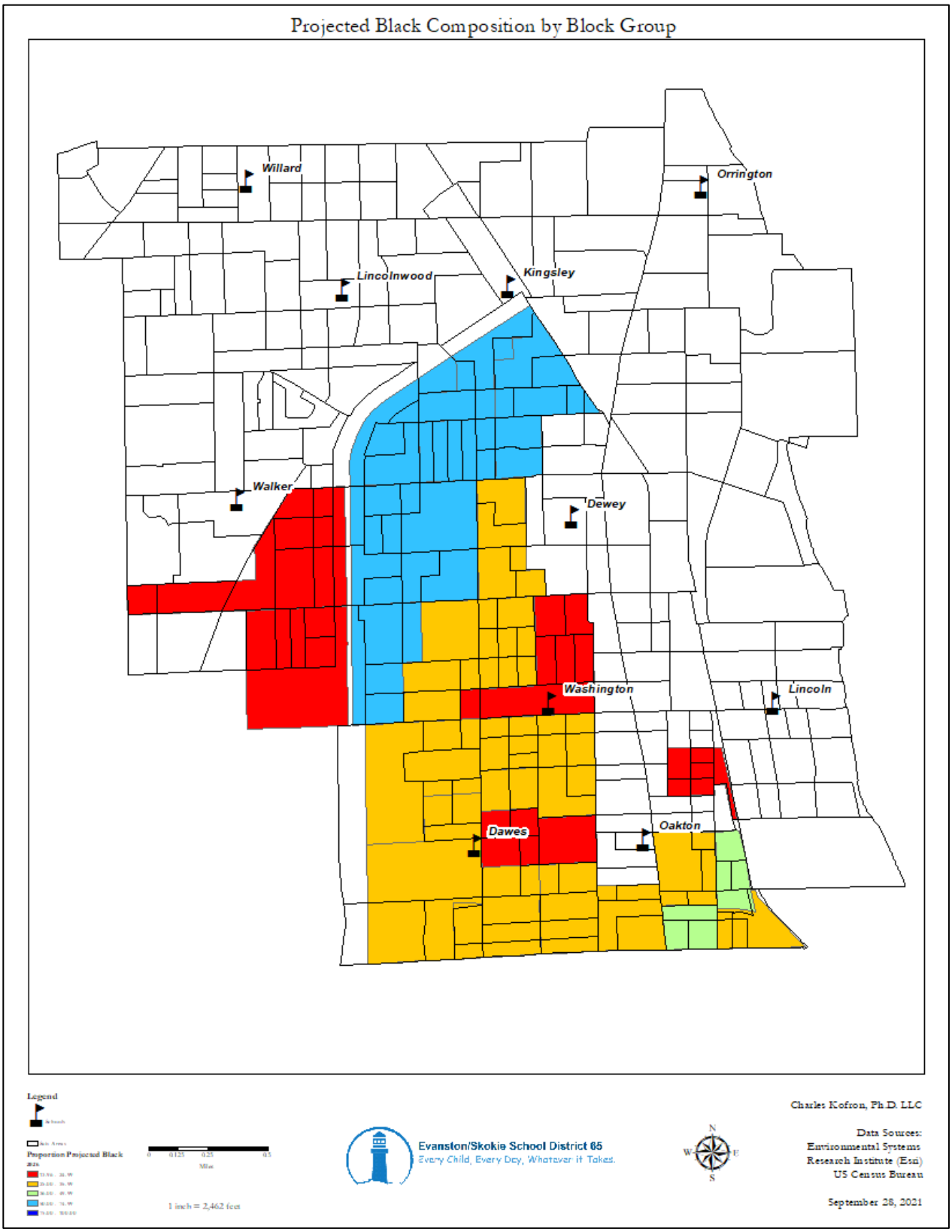
Map 12: Estimated Other Composition by Block Group



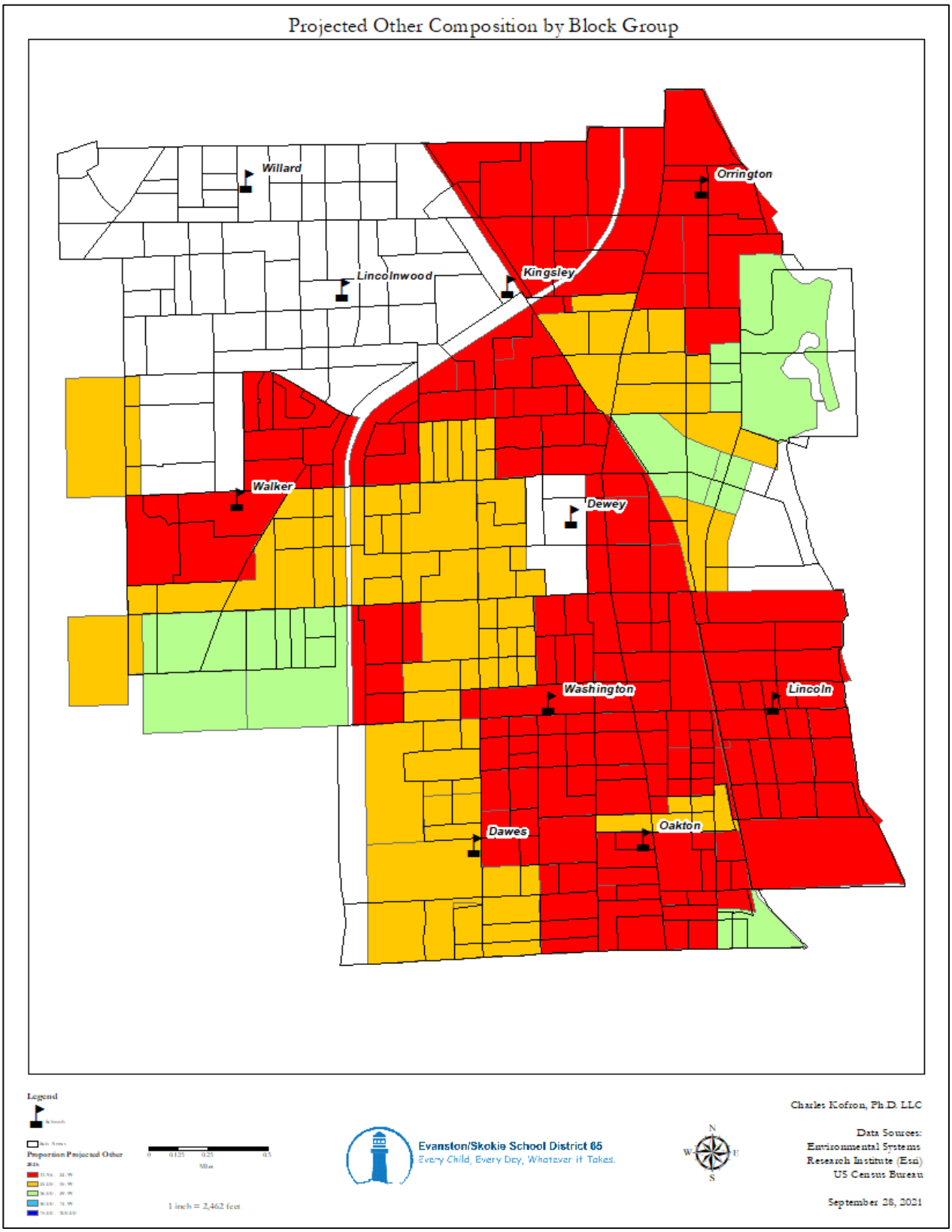
Map 13: Projected White Composition by Block Group



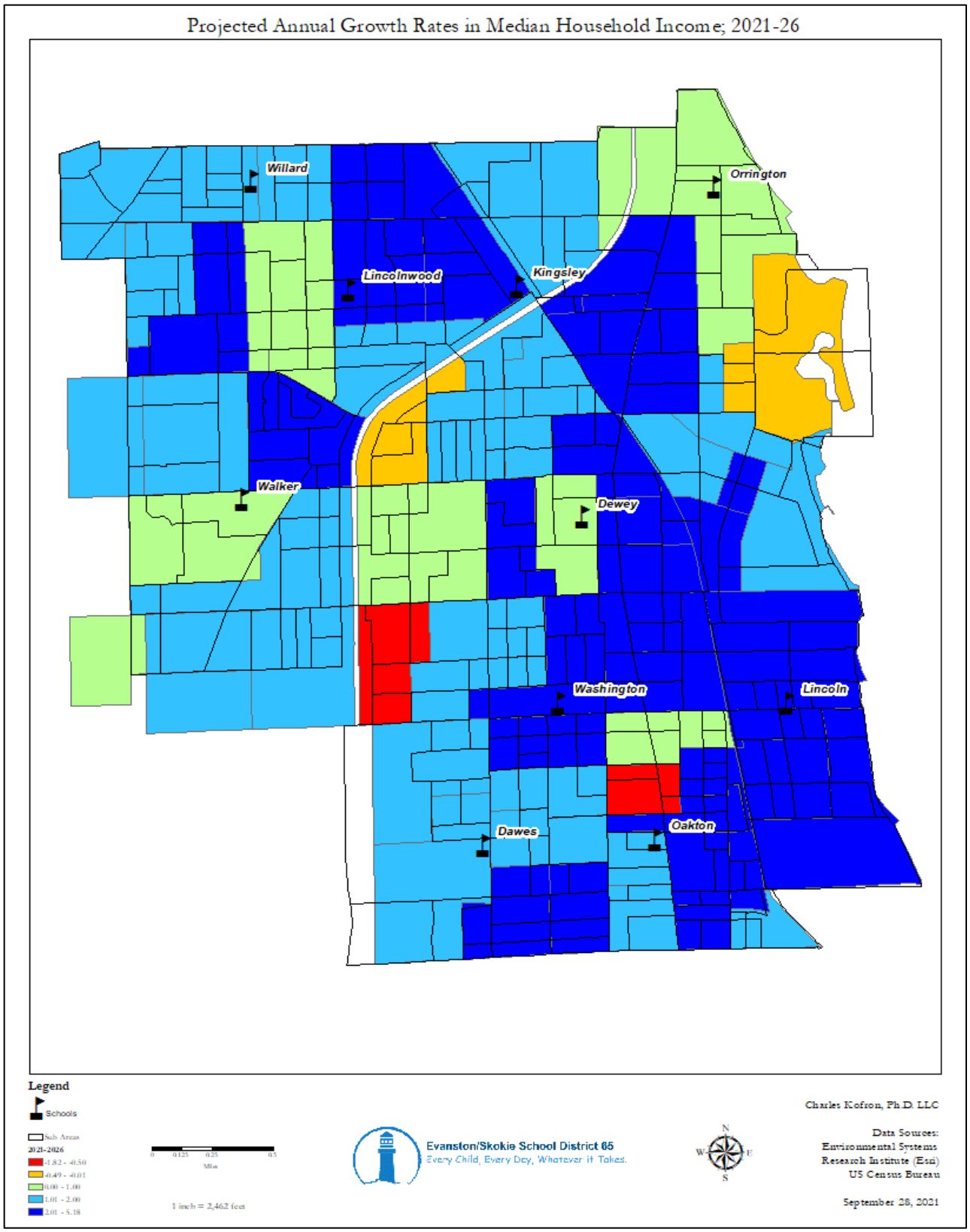
Map 14: Projected Black Composition by Block Group



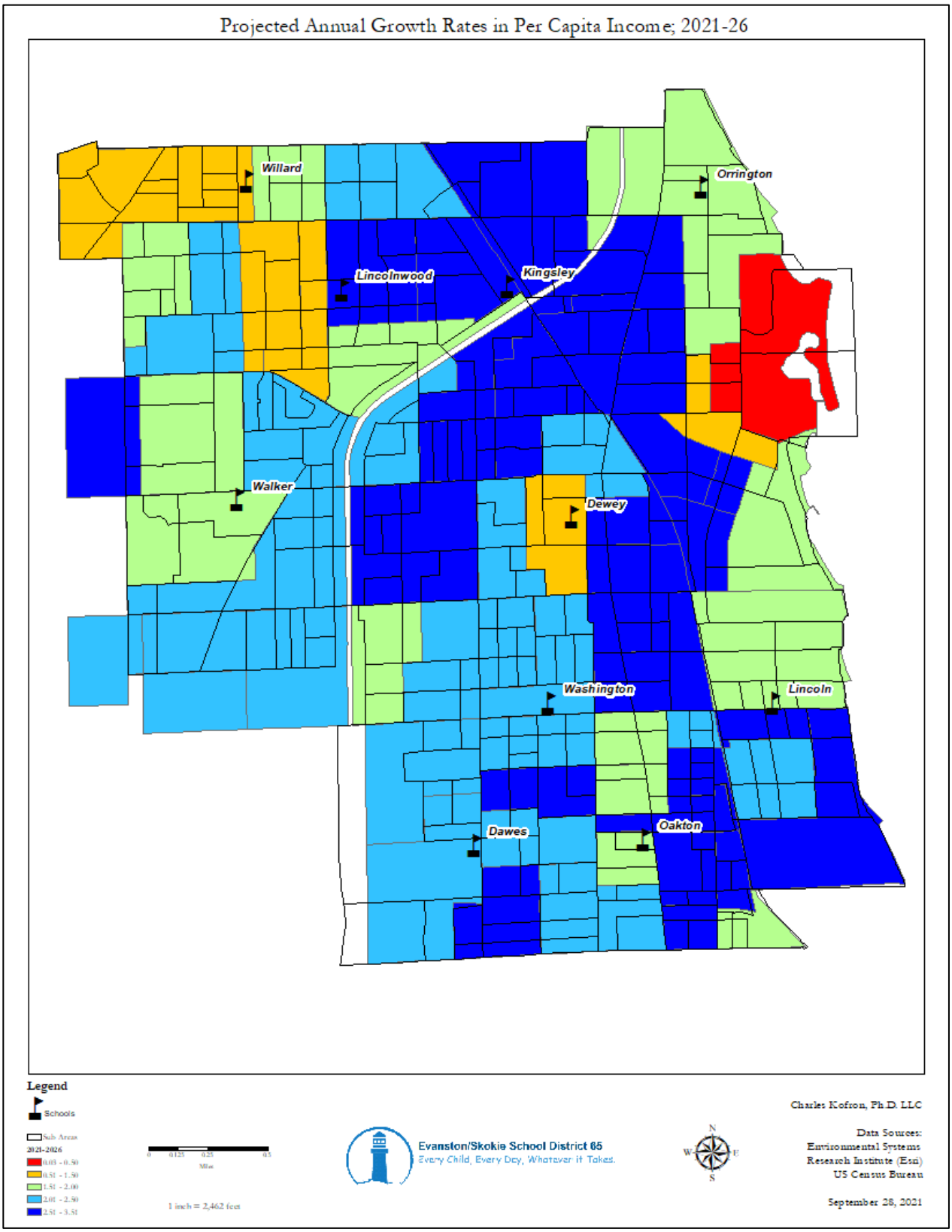
Map 15: Projected Other Composition by Block Group



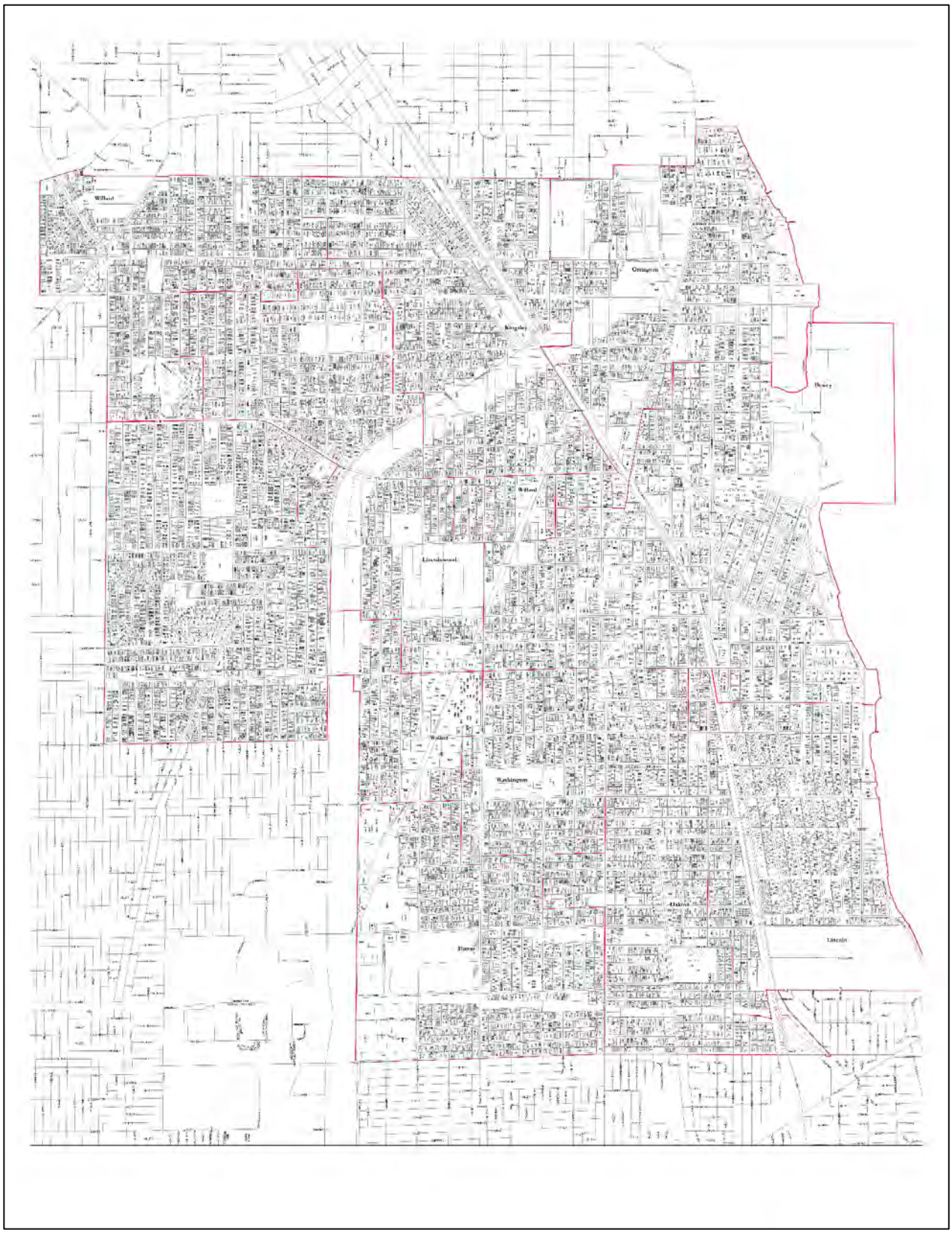
Map 16: Projected Median Household Income Growth by Block Group



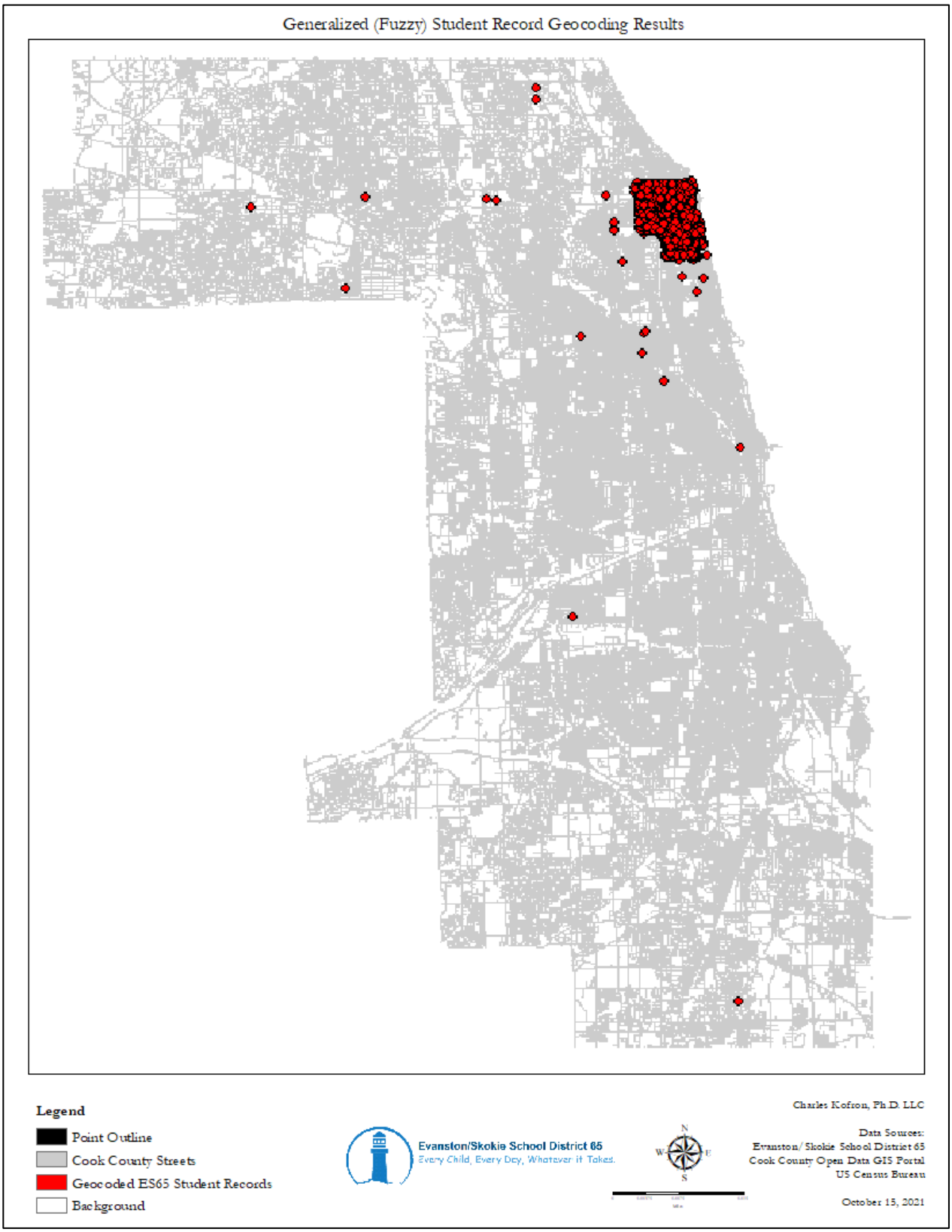
Map 17: Projected Per Capita Income Growth by Block Group



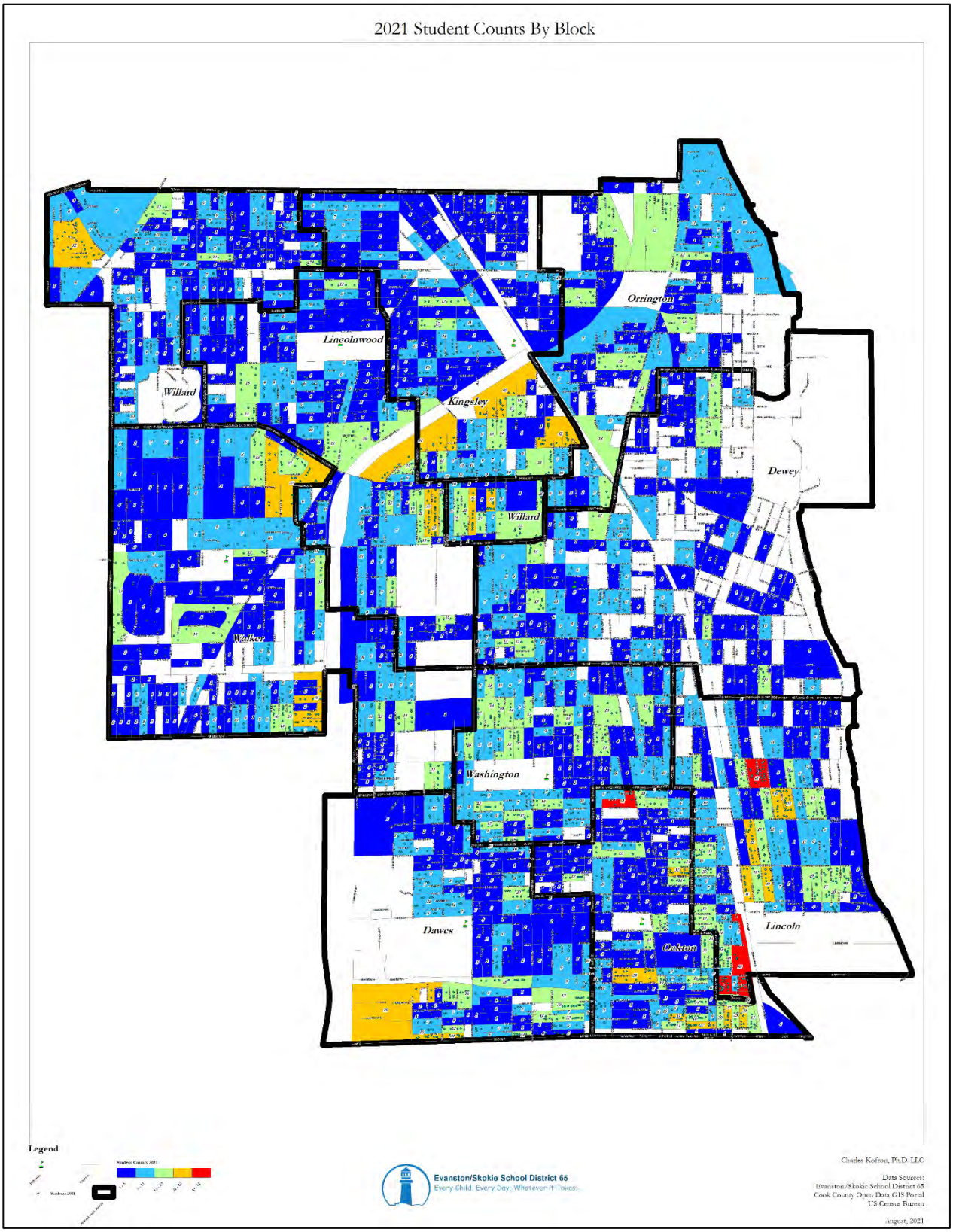
Map 18: District Attendance Areas and Parcels



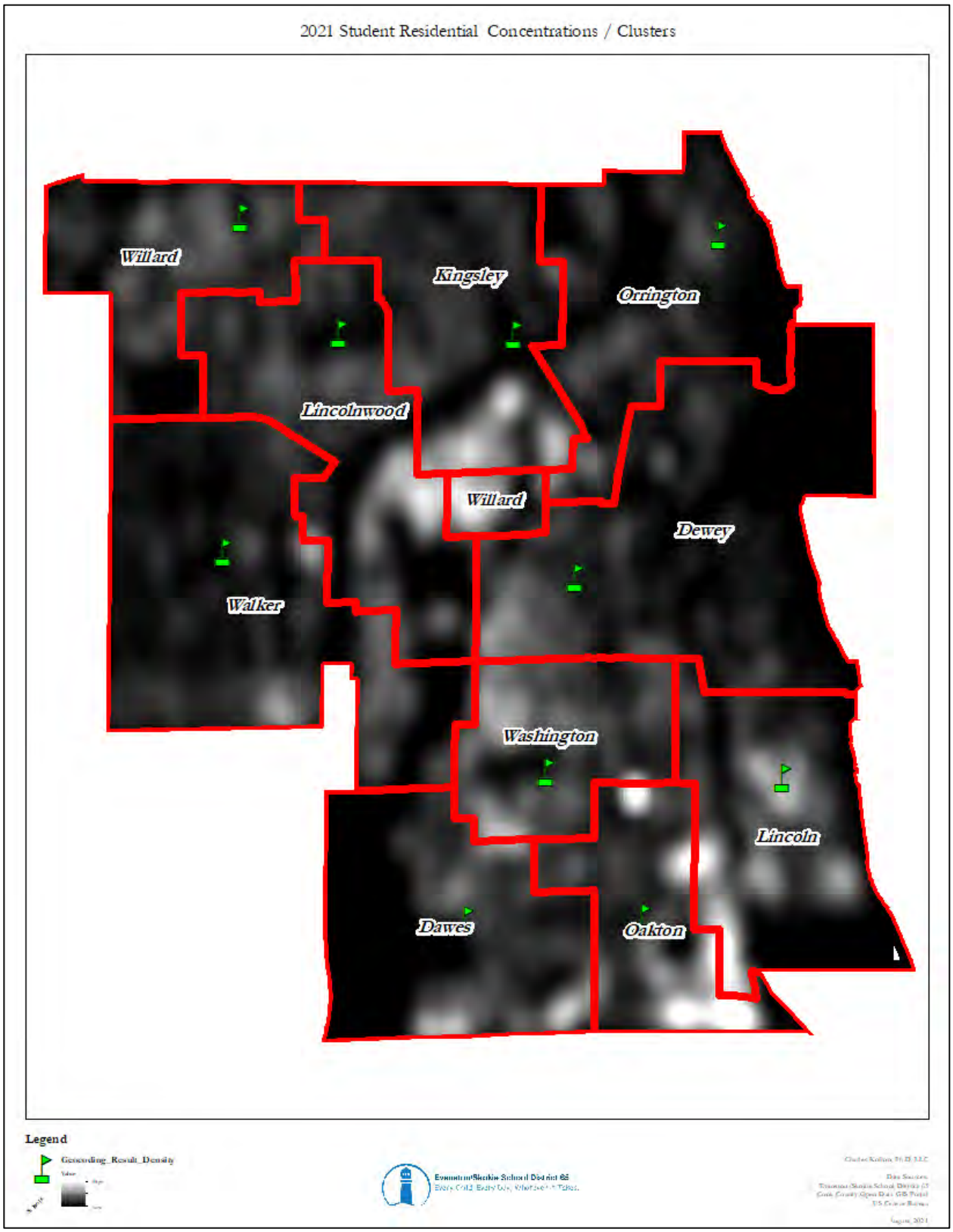
Map 19: Student Record Geocoding



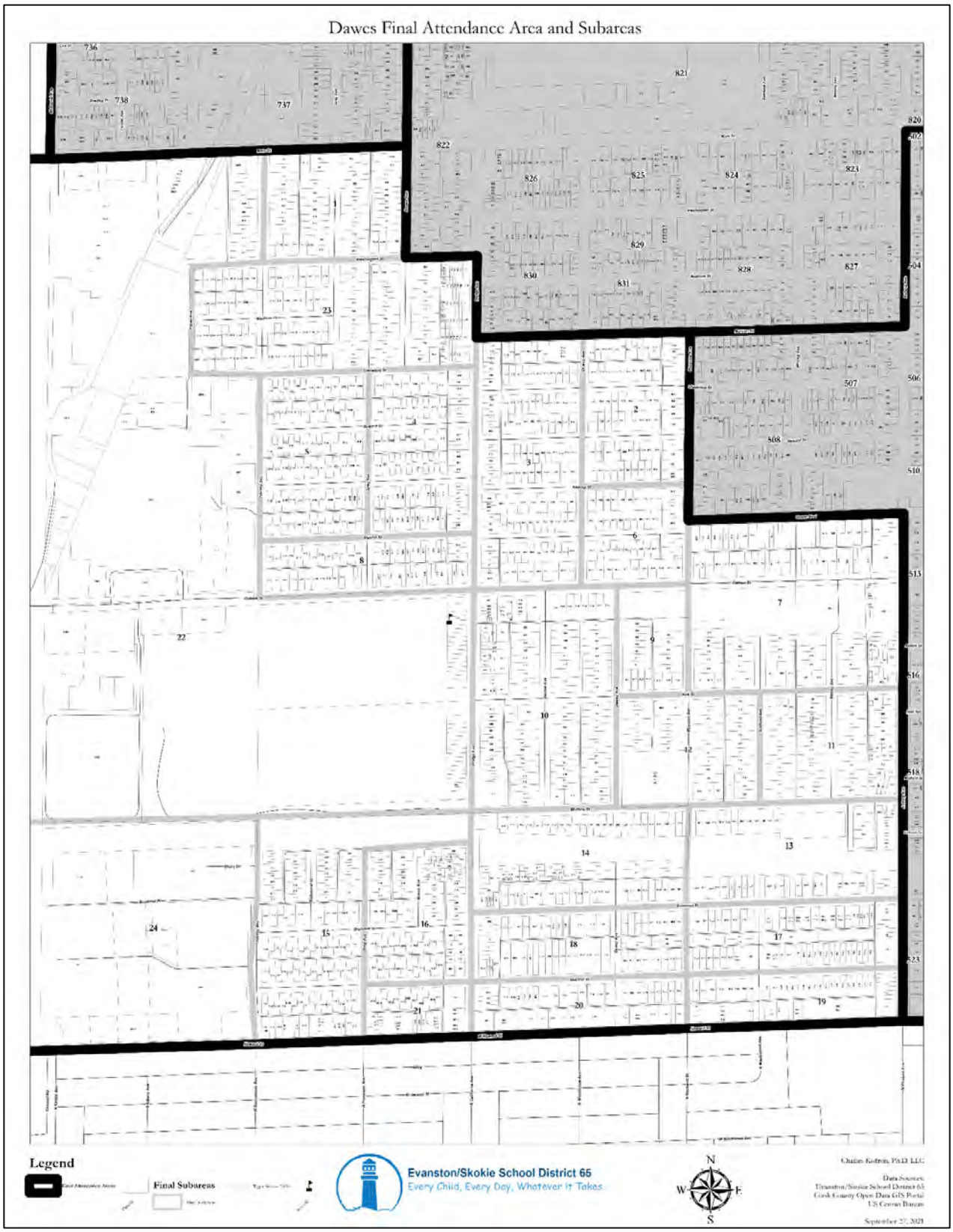
Map 20: 2021 Student Counts by Block



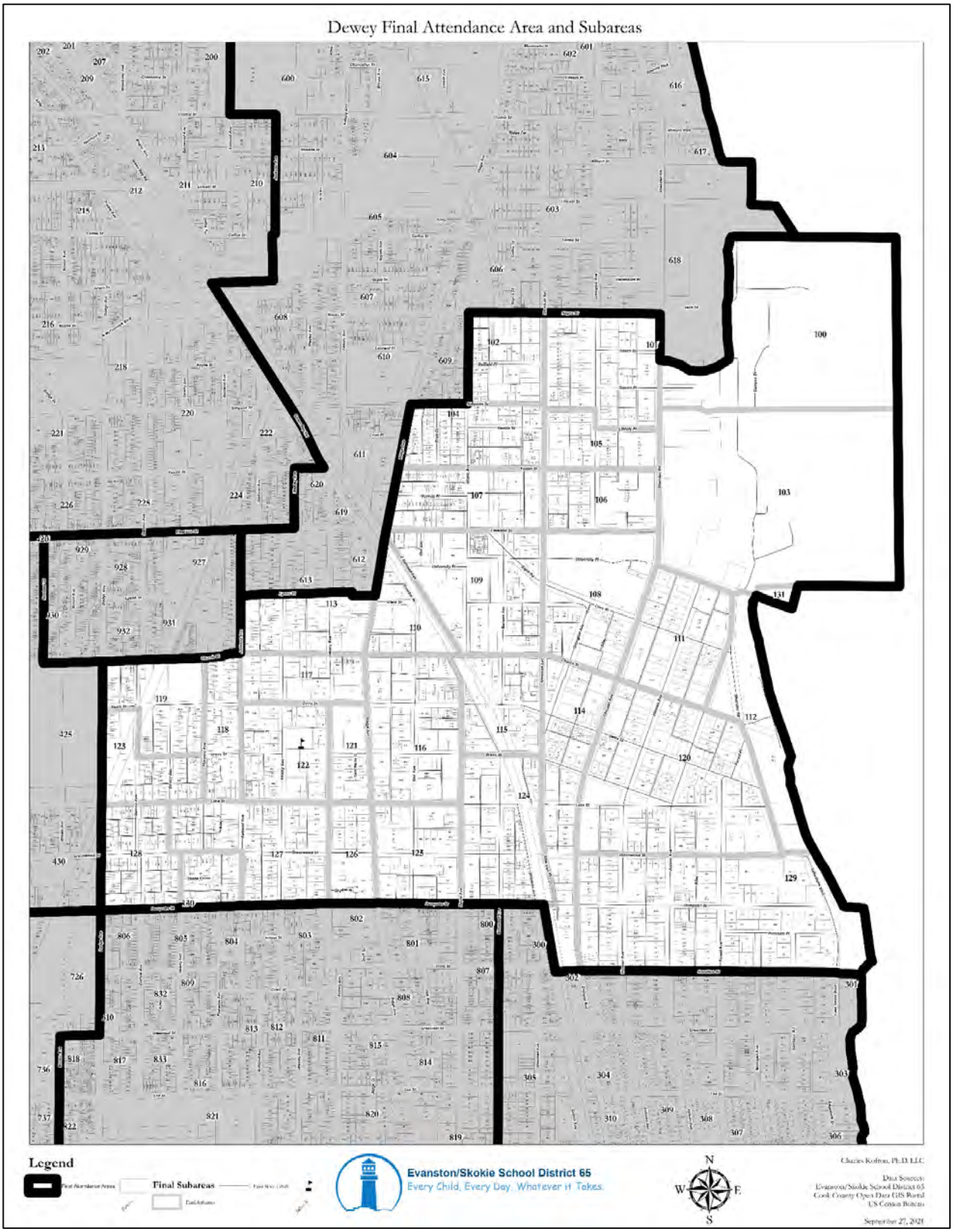
Map 21: 2021 Student Residential Concentrations



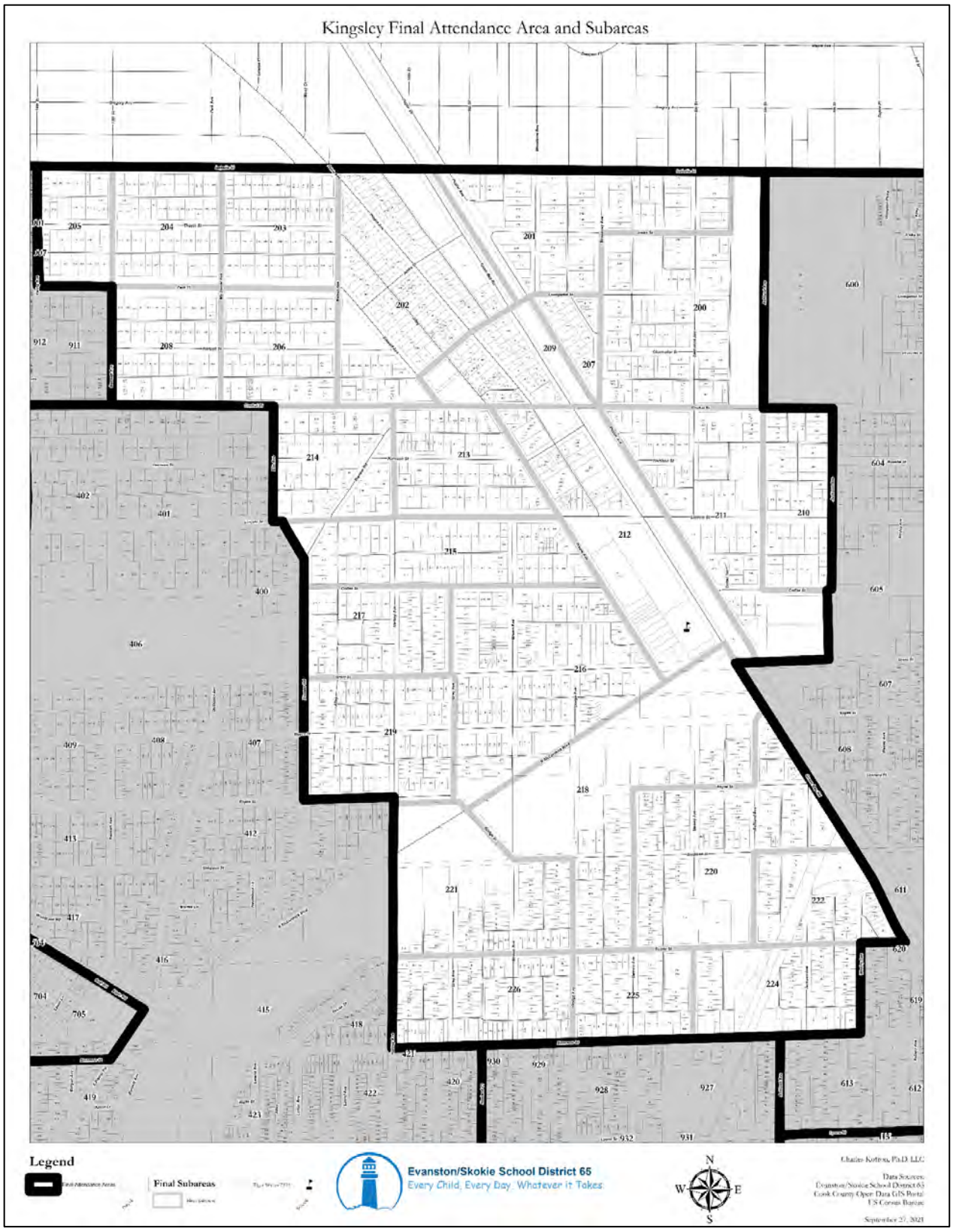
Map 22: Dawes Attendance and Sub Areas



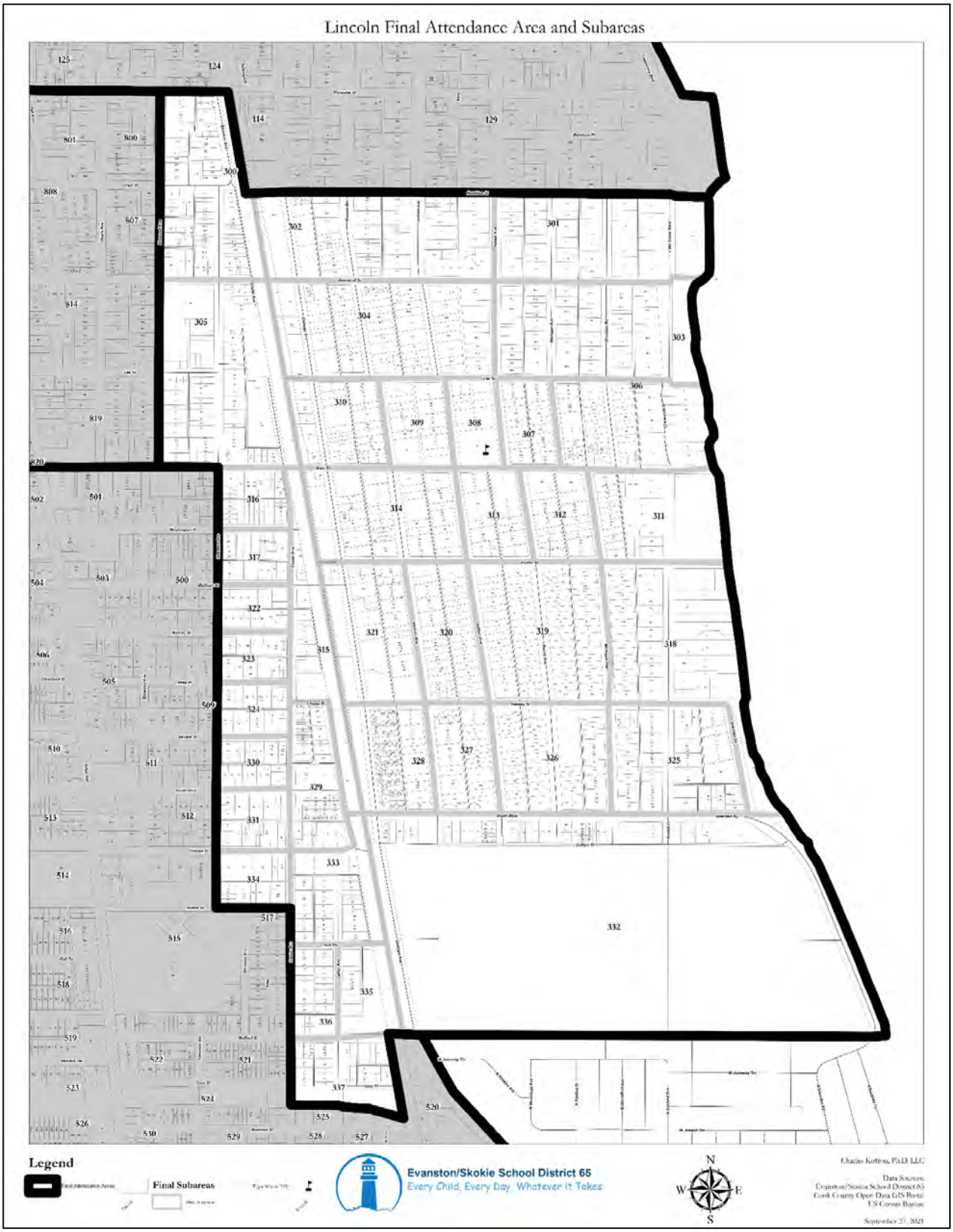
Map 23: Dewey Attendance and Sub Areas



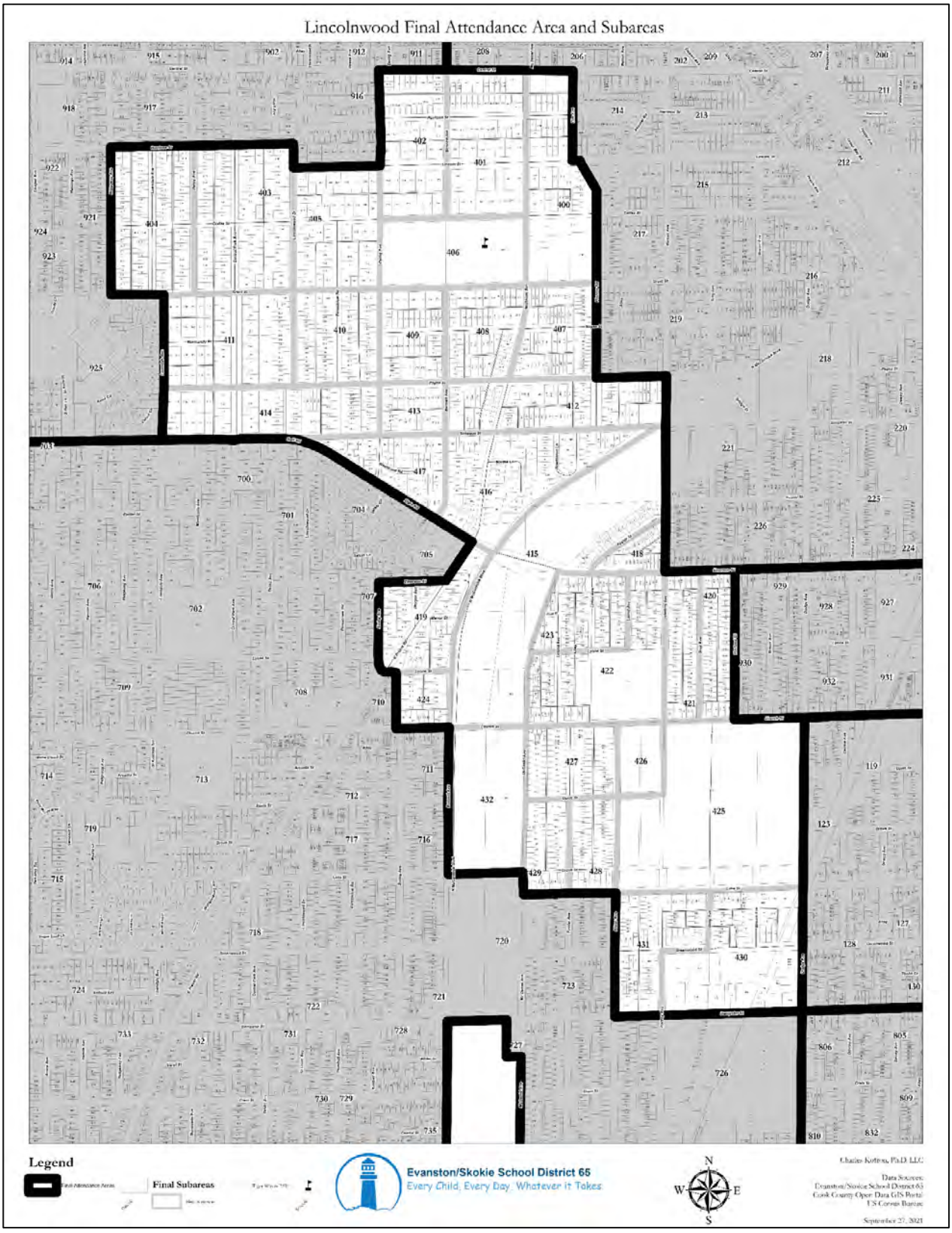
Map 24: Kingsley Attendance and Sub Areas



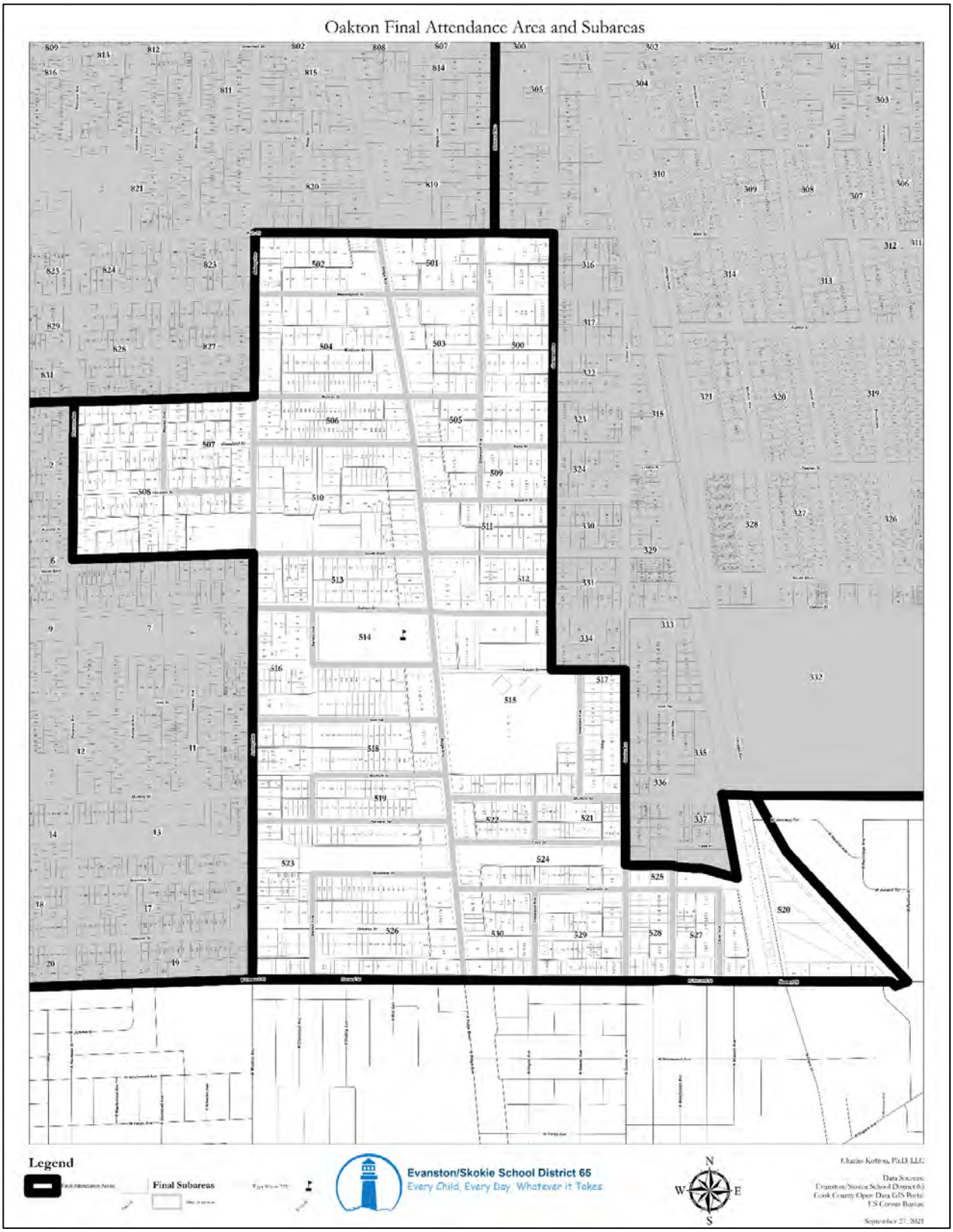
Map 25: Lincoln Attendance and Sub Areas



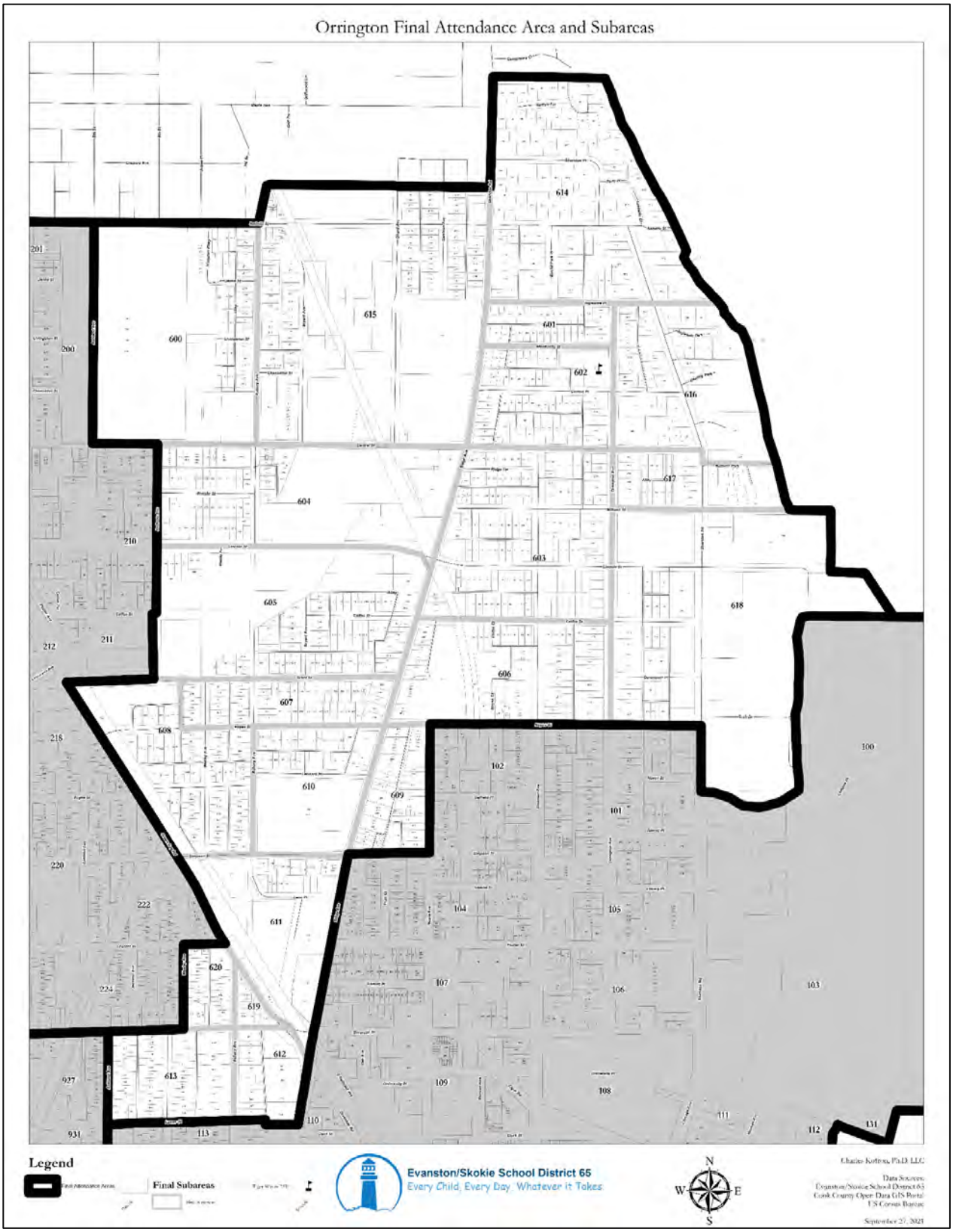
Map 26: Lincolnwood Attendance and Sub Areas



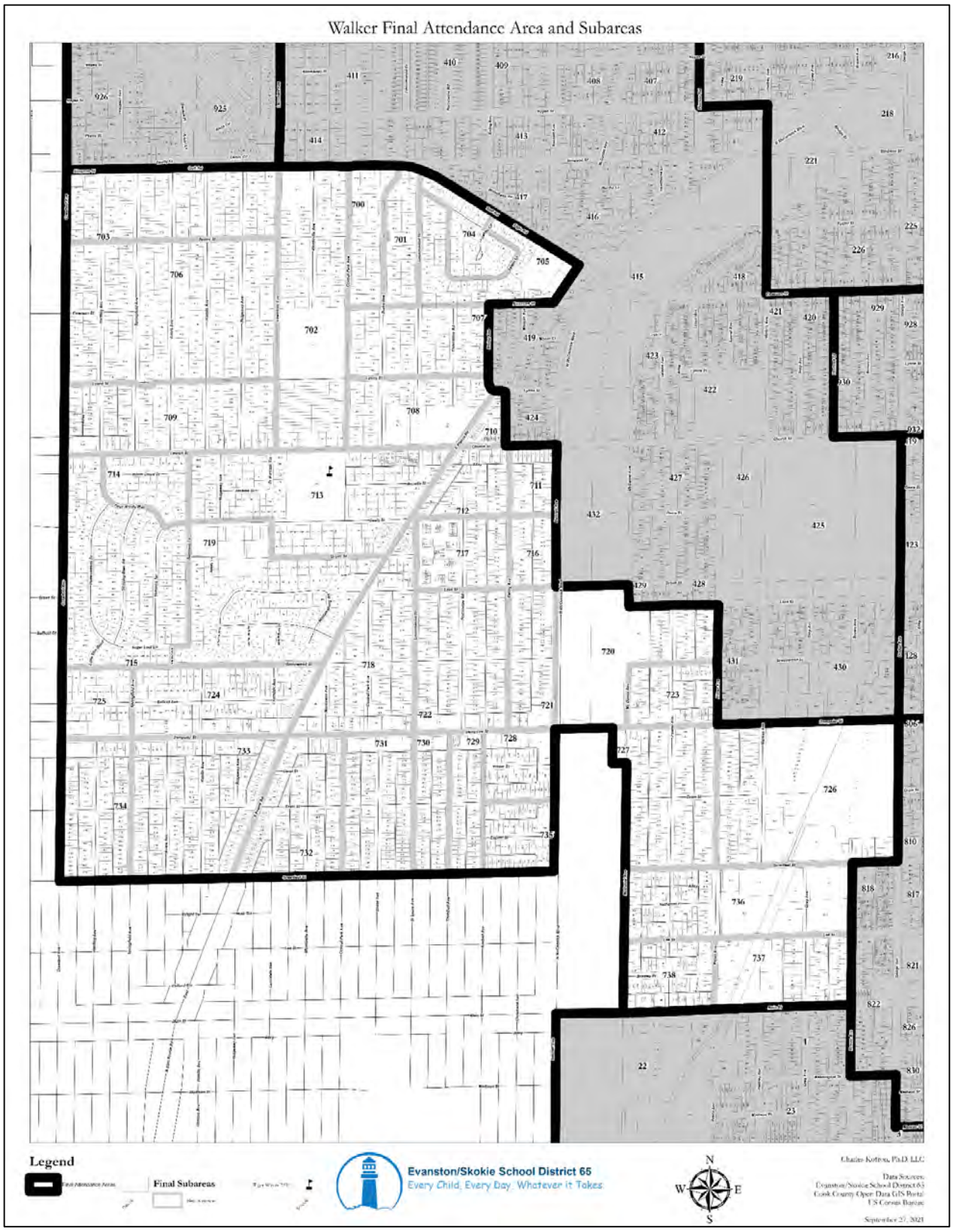
Map 27: Oakton Attendance and Sub Areas



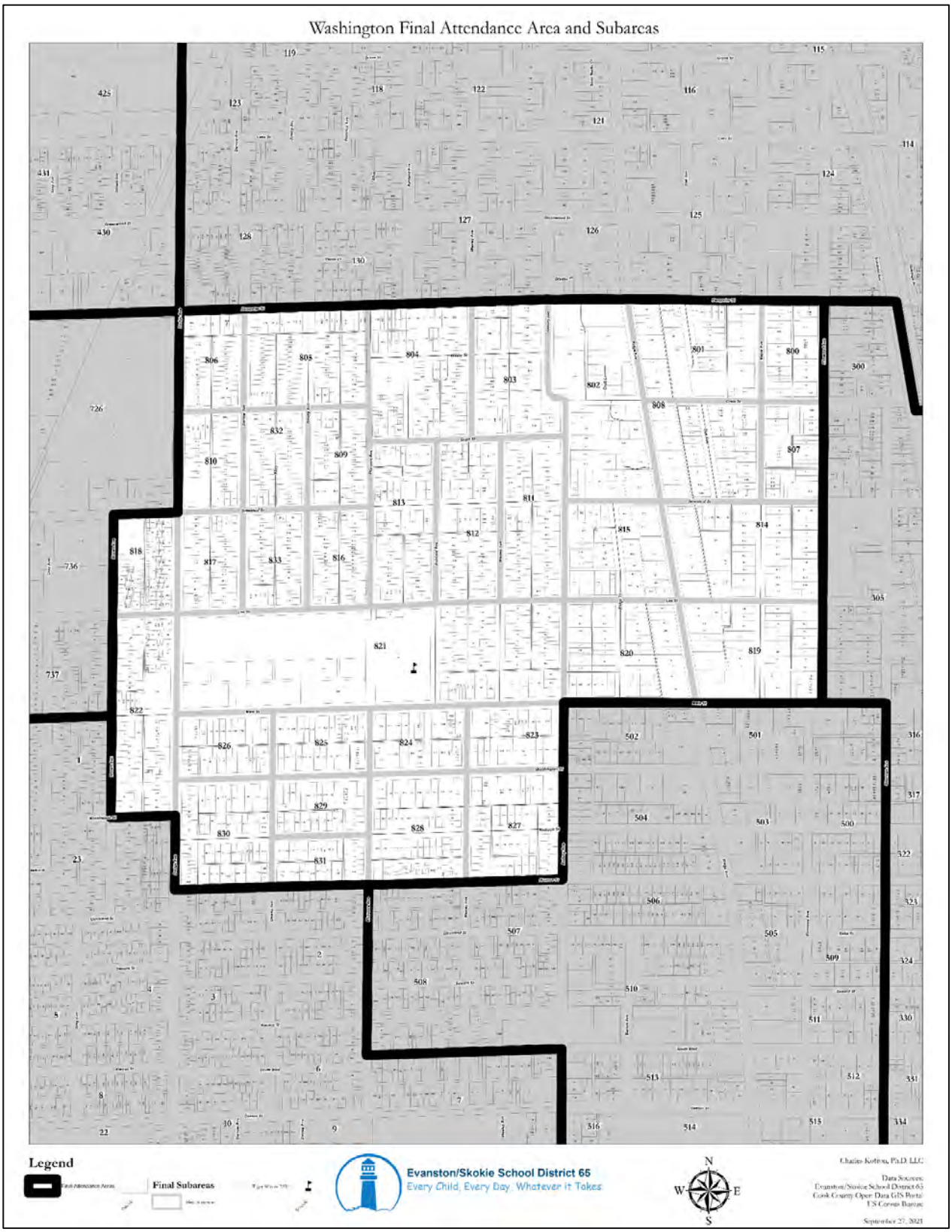
Map 28: Orrington Attendance and Sub Areas



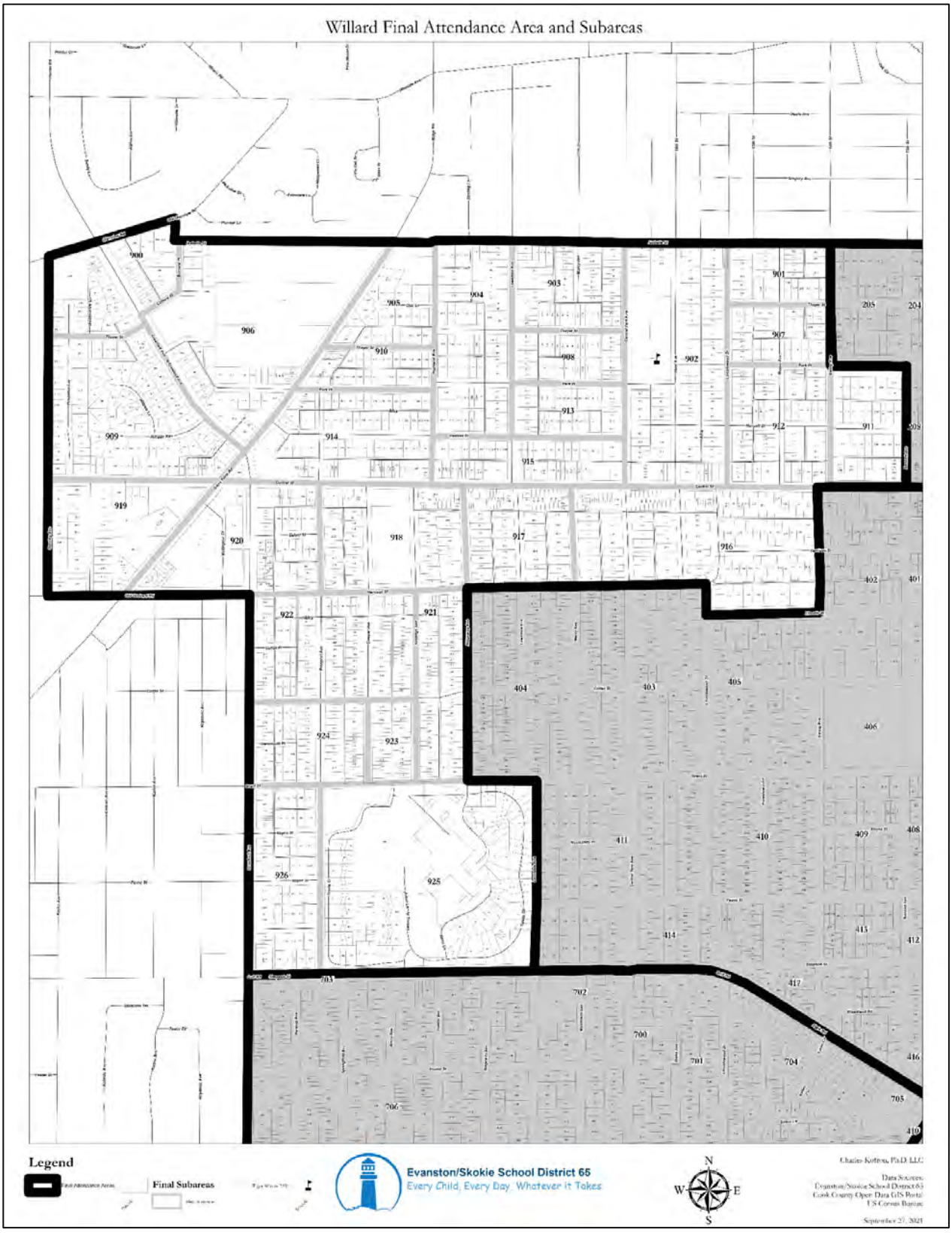
Map 29: Walker Attendance and Sub Areas



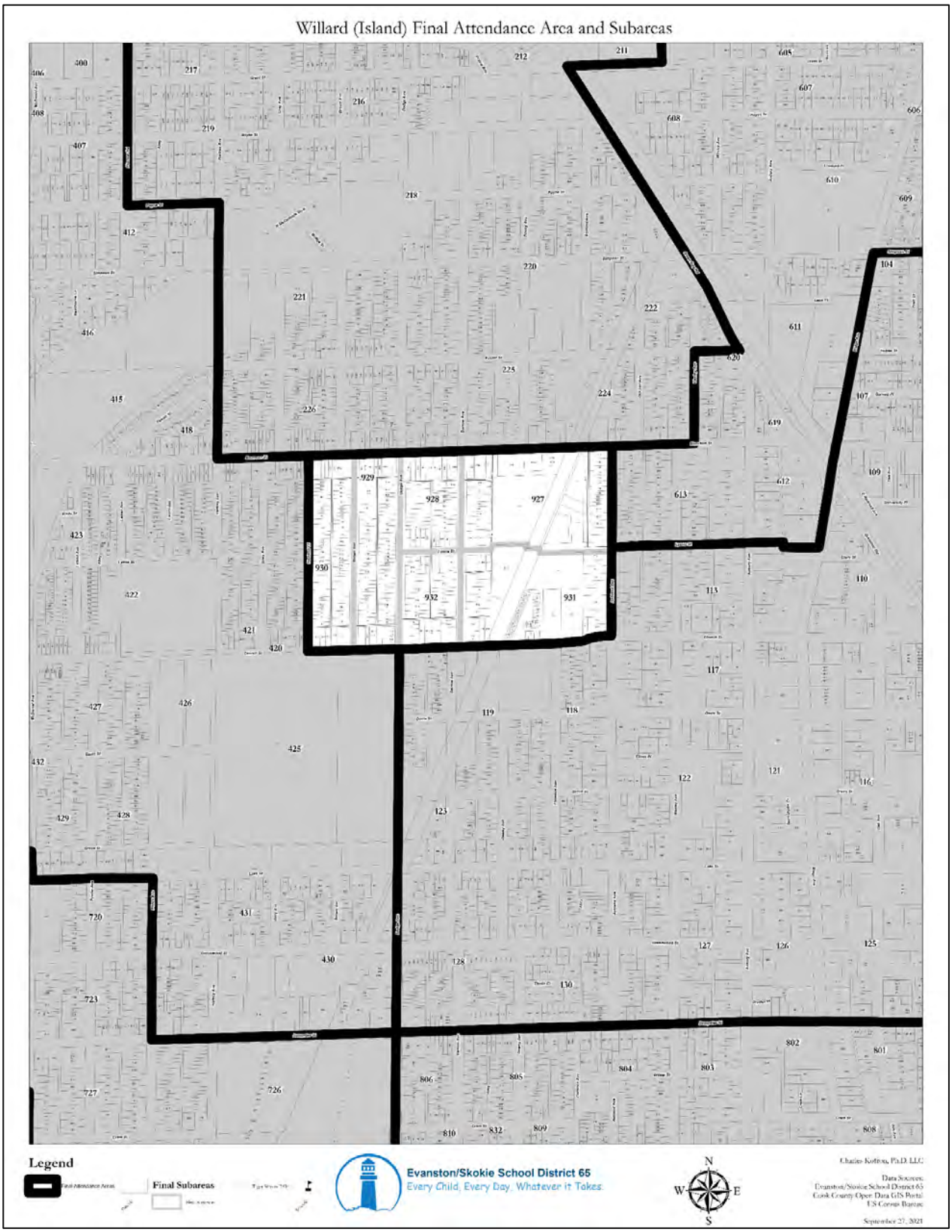
Map 30: Washington Attendance and Sub Areas



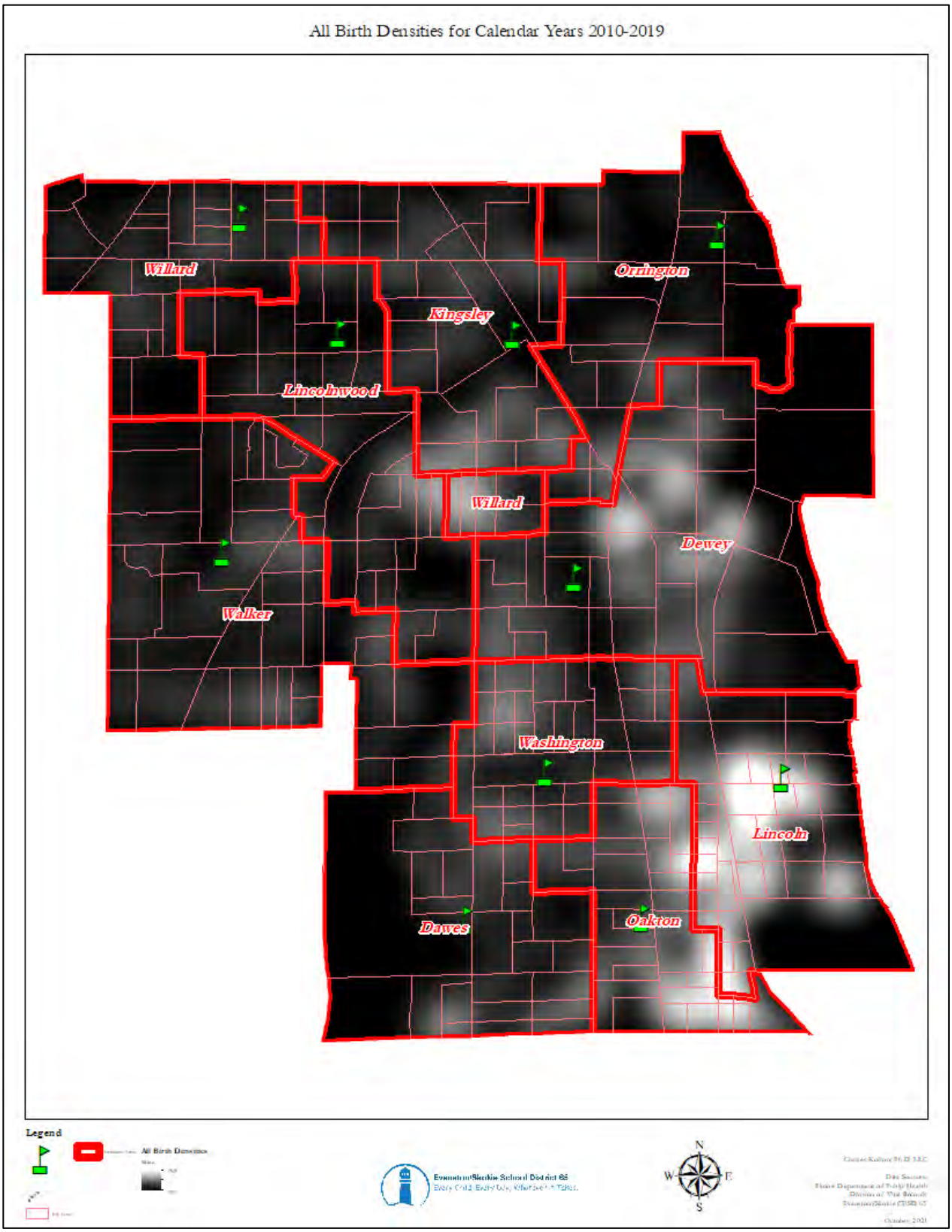
Map 31: Willard Attendance and Sub Areas



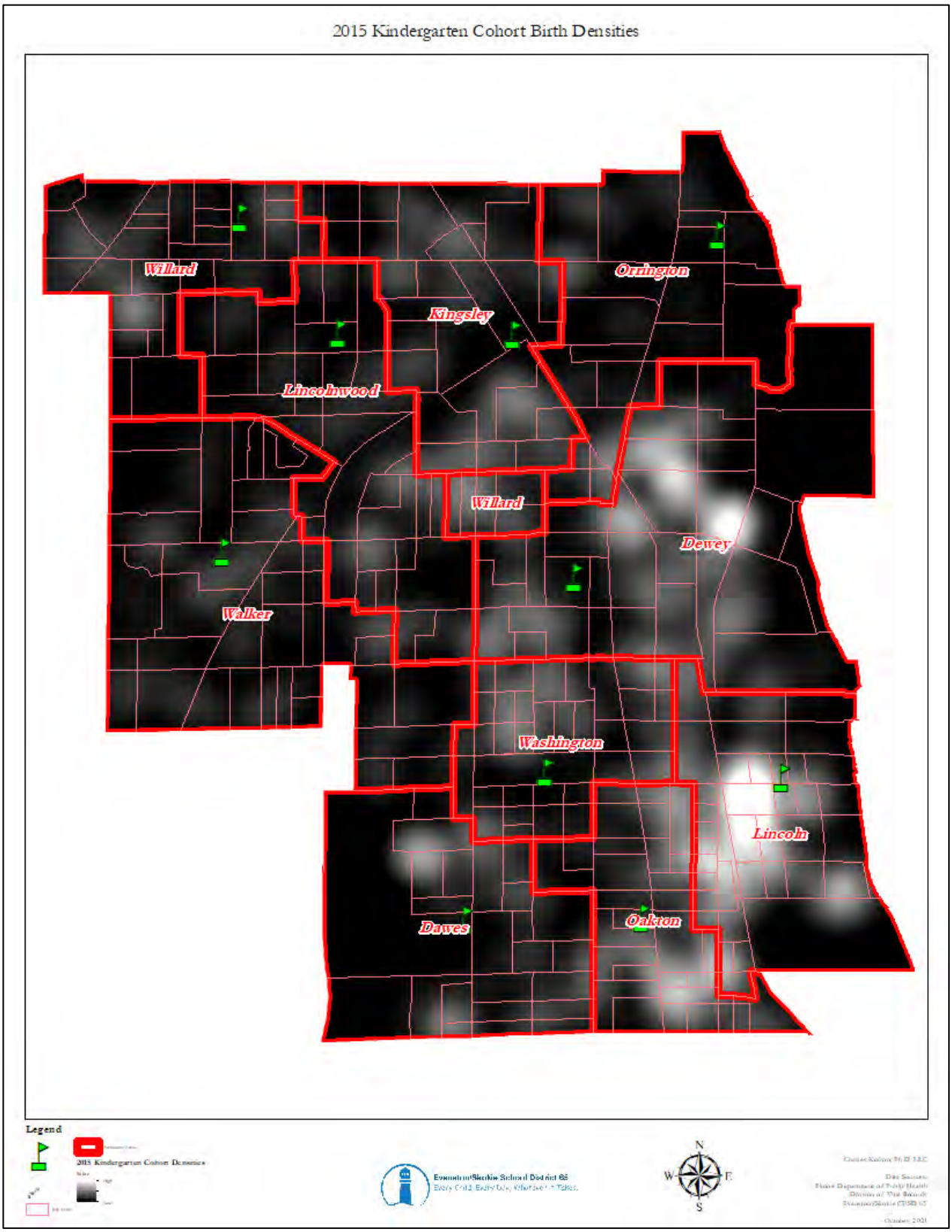
Map 32: Willard Island Attendance and Sub Areas



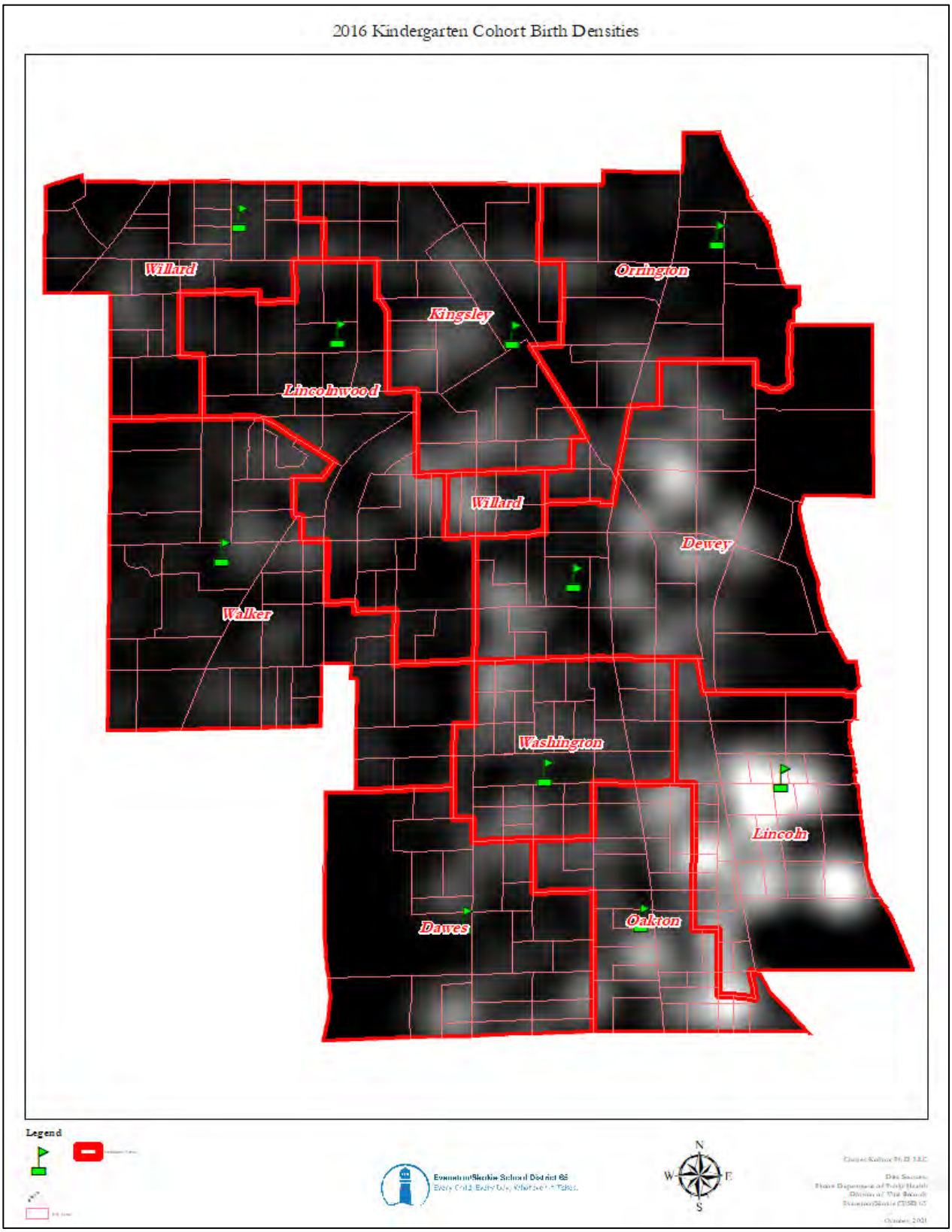
Map 33: All Birth Densities from Birth Record Geocoding



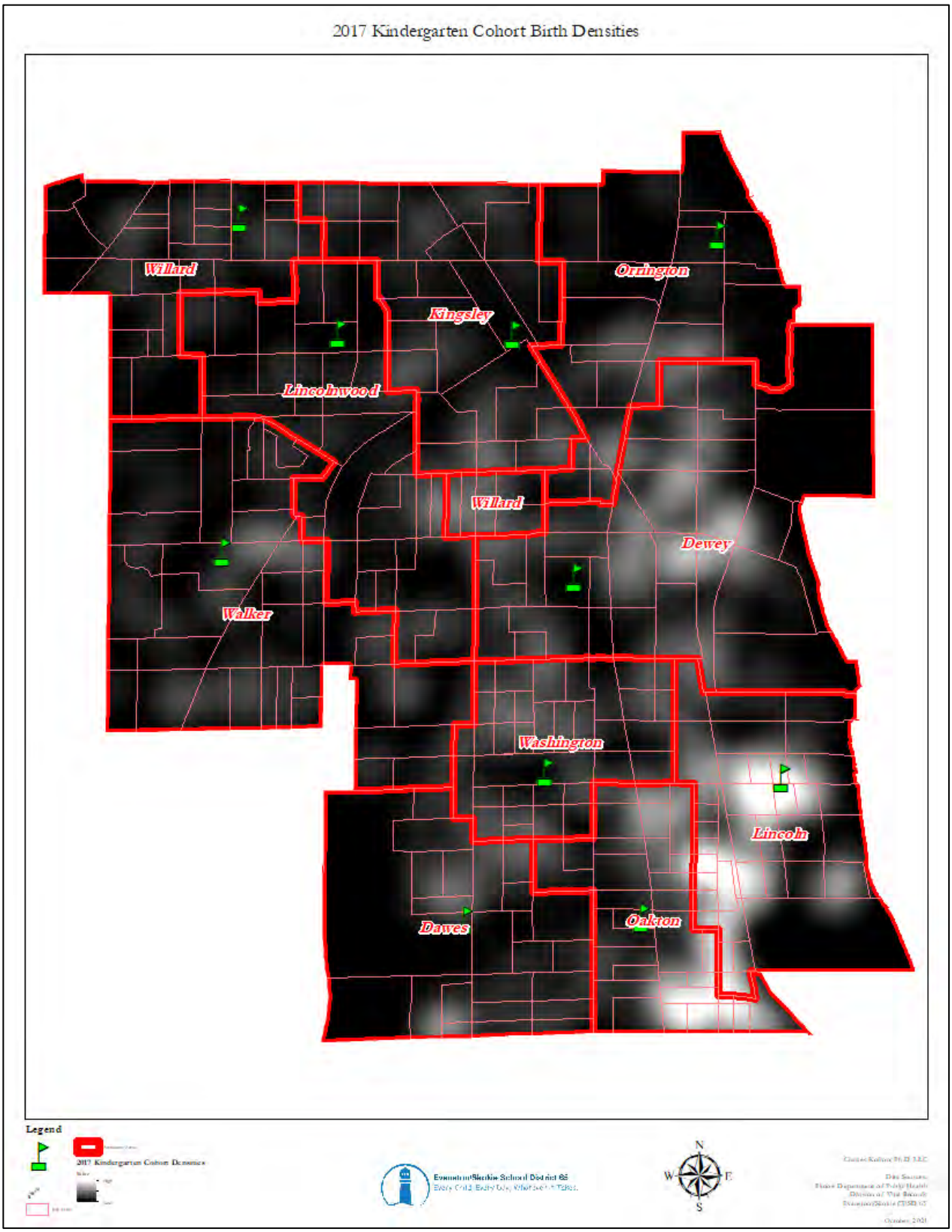
Map 34: 2015 Kindergarten Cohort Birth Densities



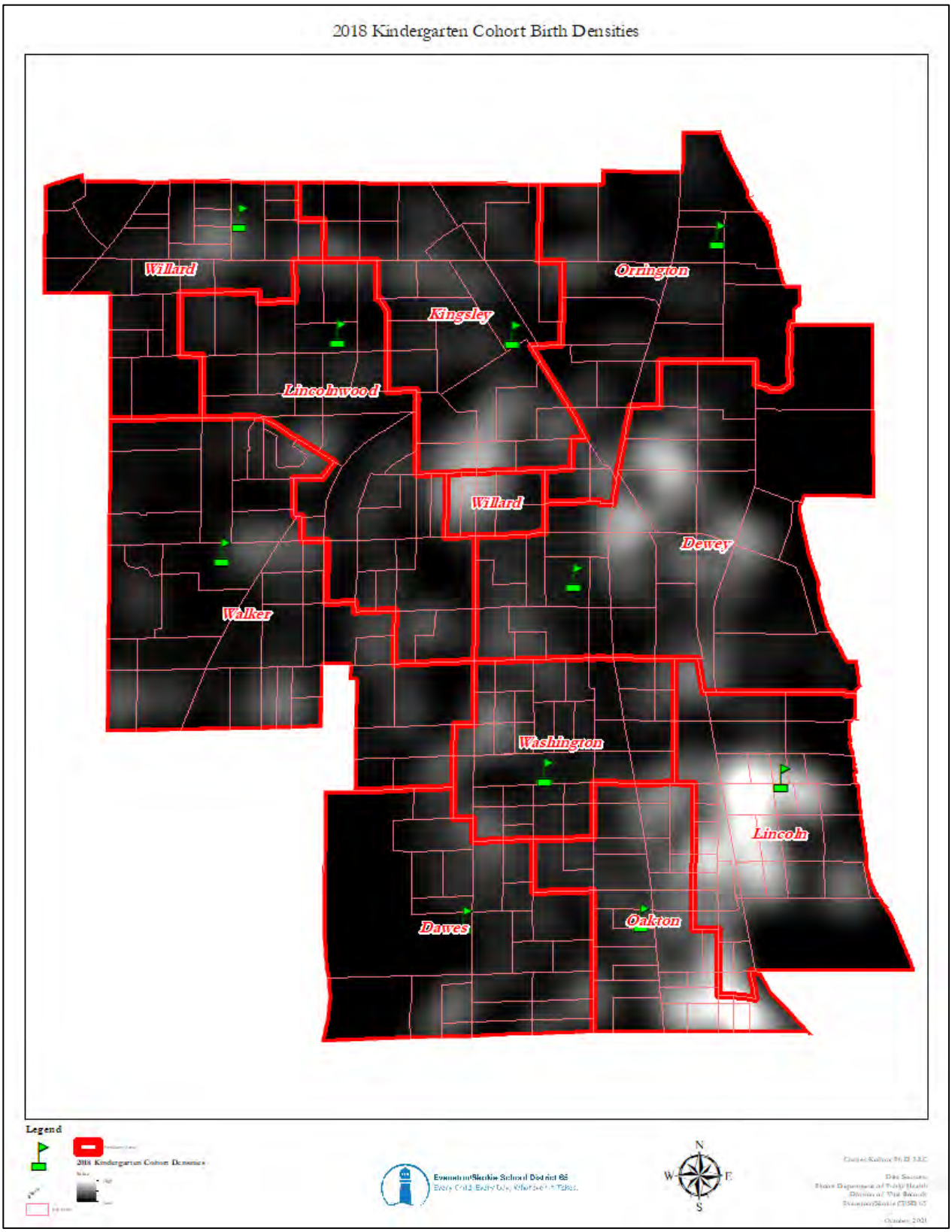
Map 35: 2016 Kindergarten Cohort Birth Densities



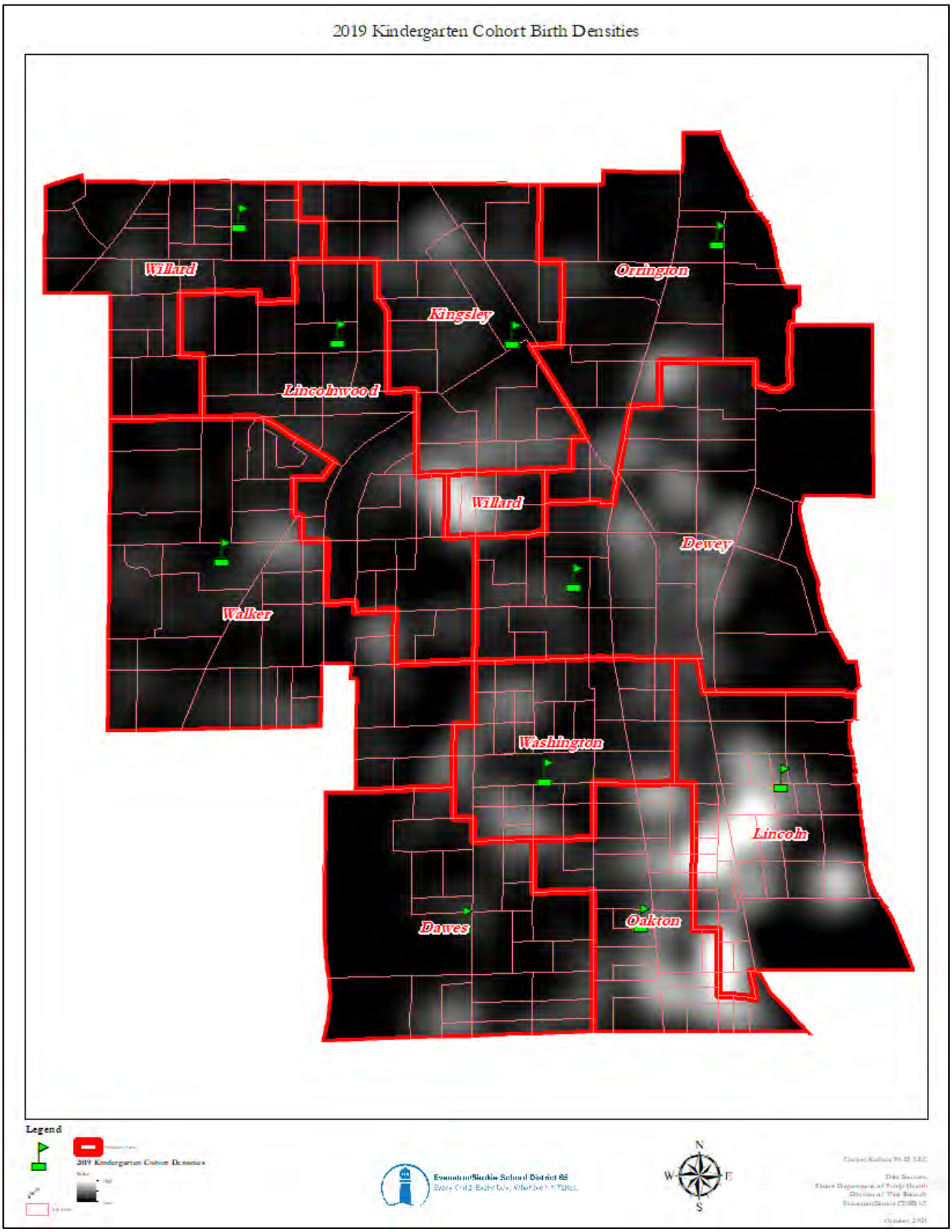
Map 36: 2017 Kindergarten Cohort Birth Densities



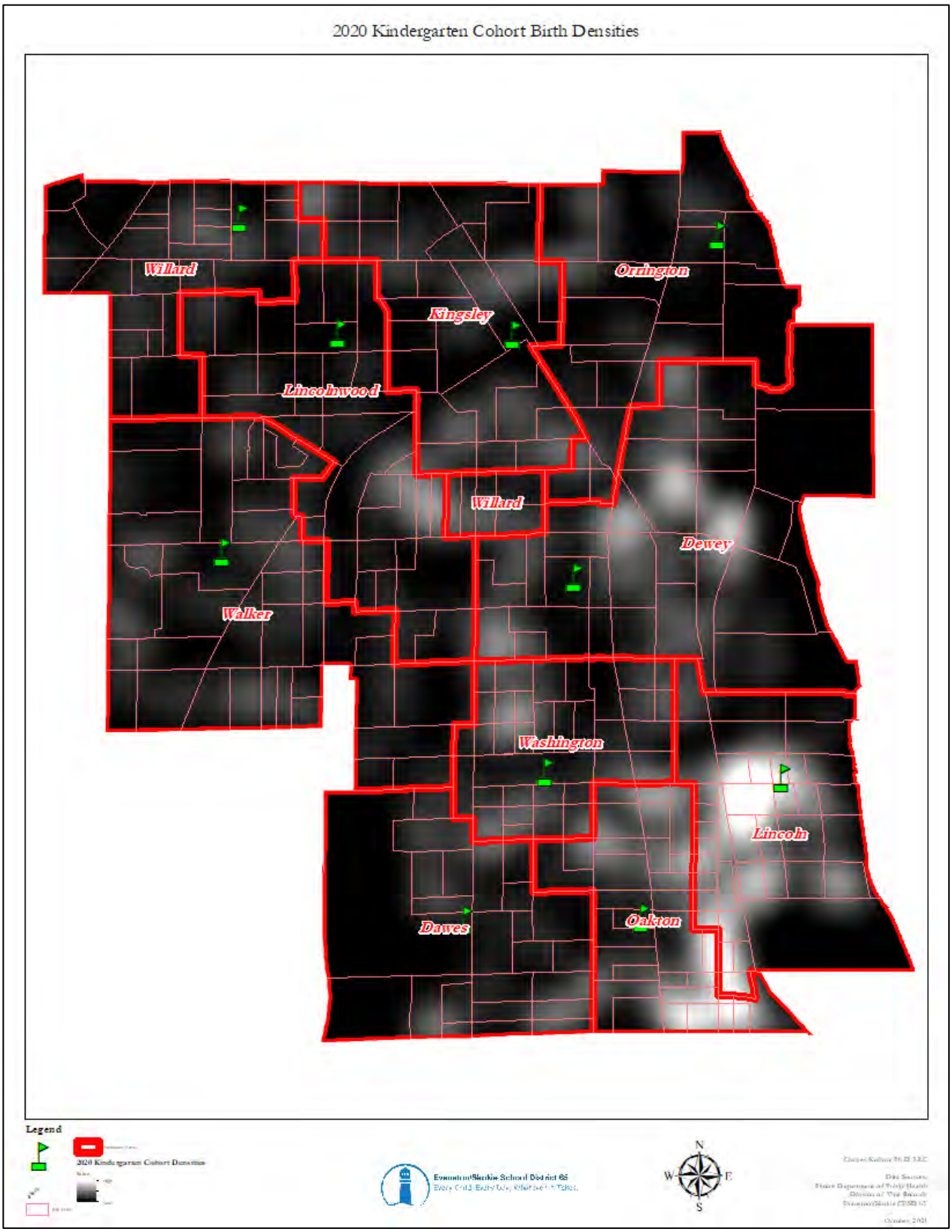
Map 37: 2018 Kindergarten Cohort Birth Densities



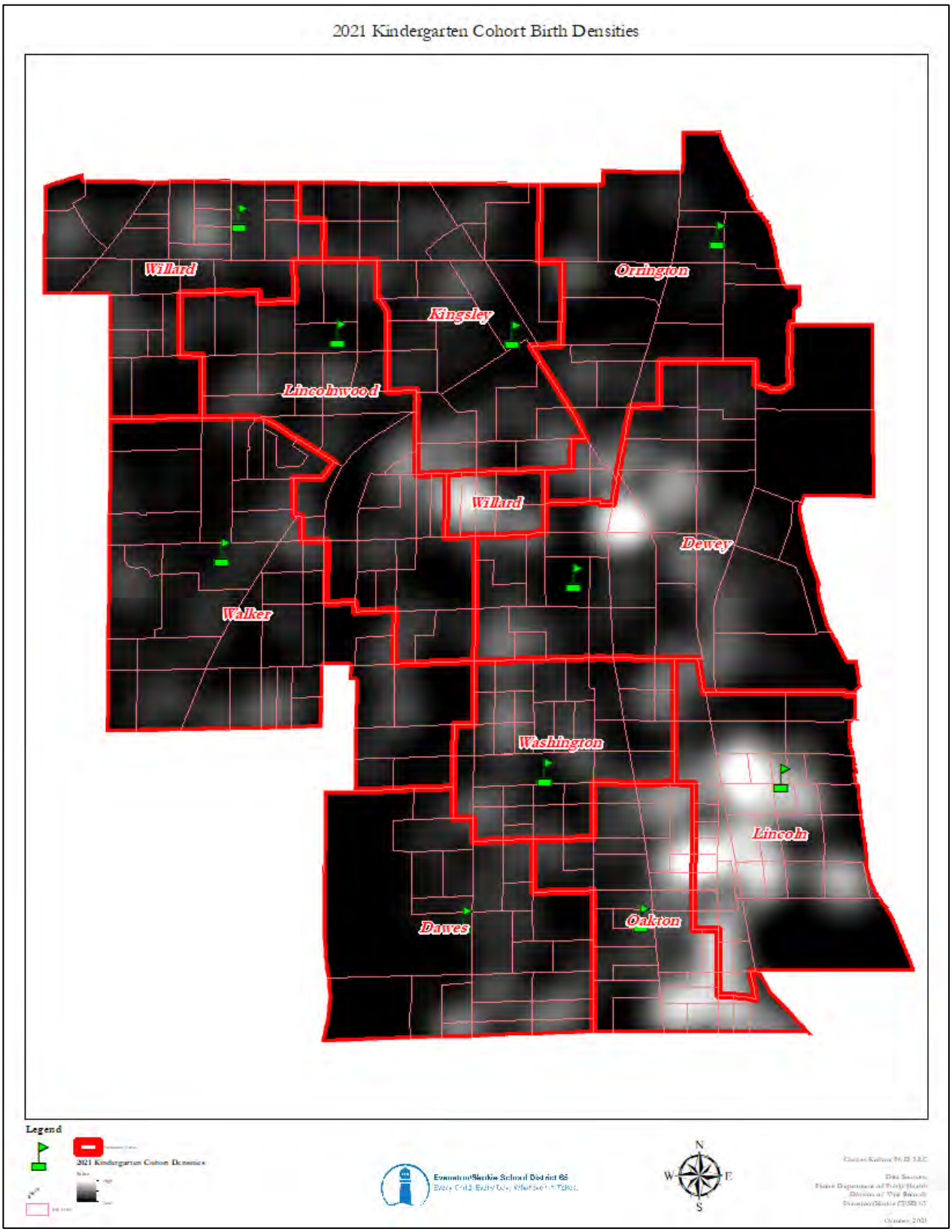
Map 38: 2019 Kindergarten Cohort Birth Densities



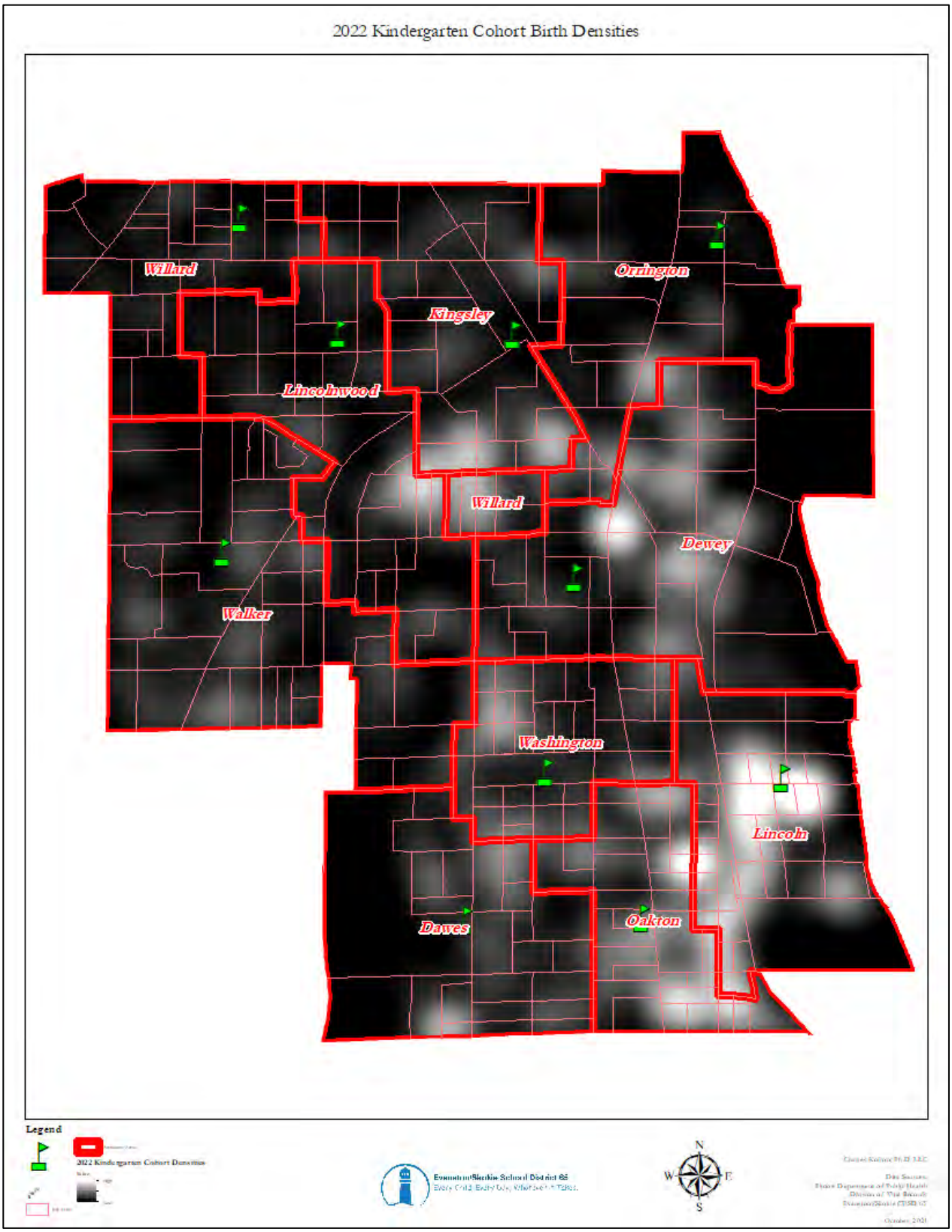
Map 39: 2020 Kindergarten Cohort Birth Densities



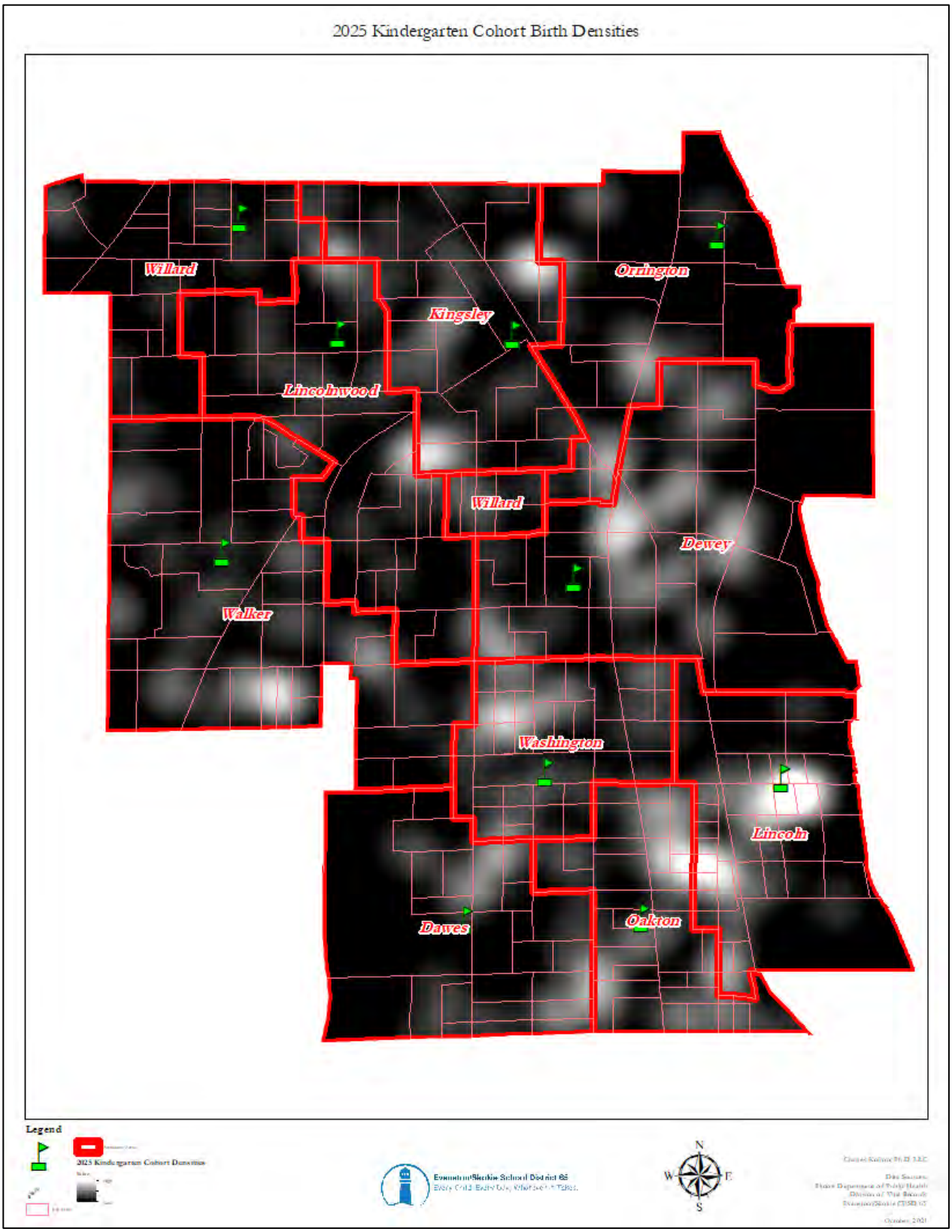
Map 40: 2021 Kindergarten Cohort Birth Densities



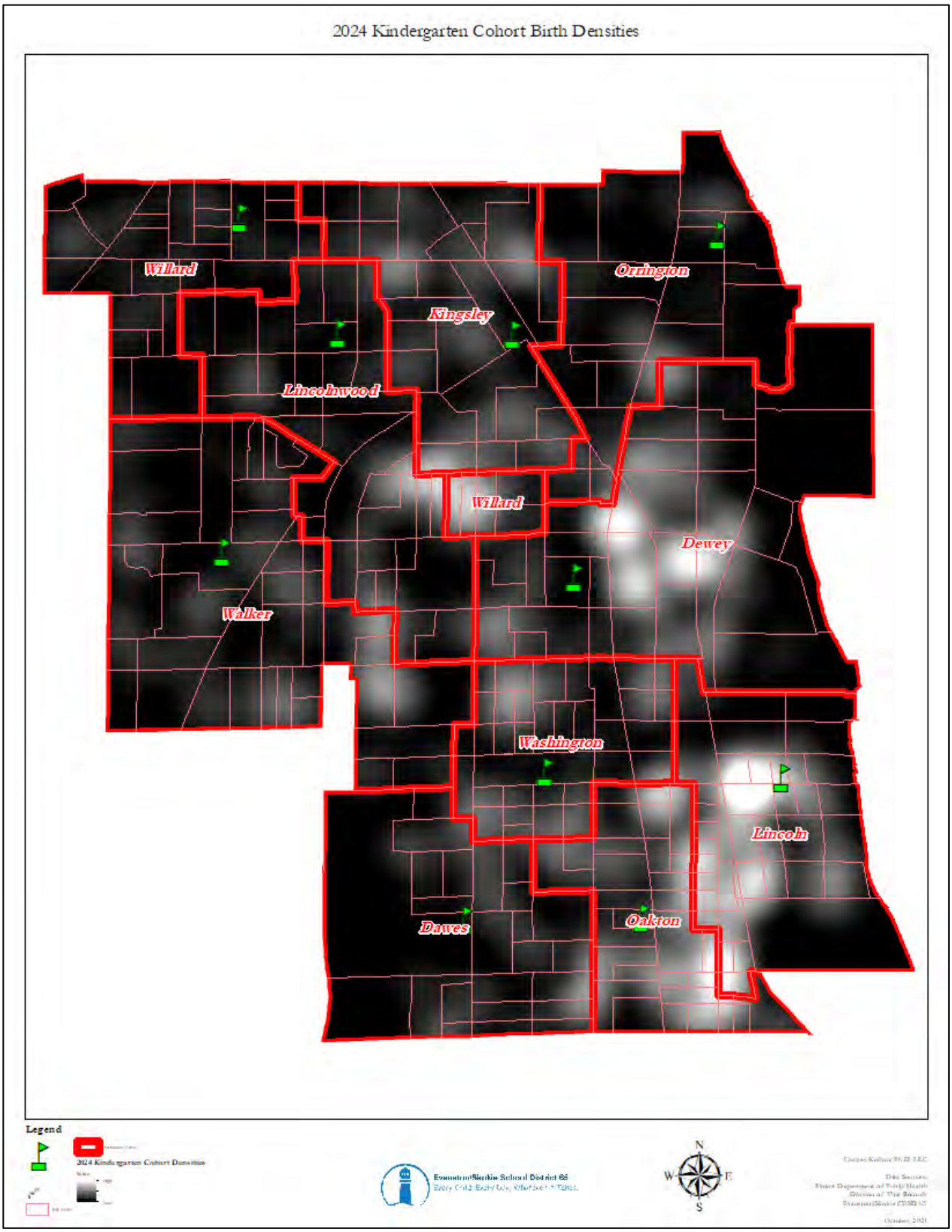
Map 41: 2022 Kindergarten Cohort Birth Densities



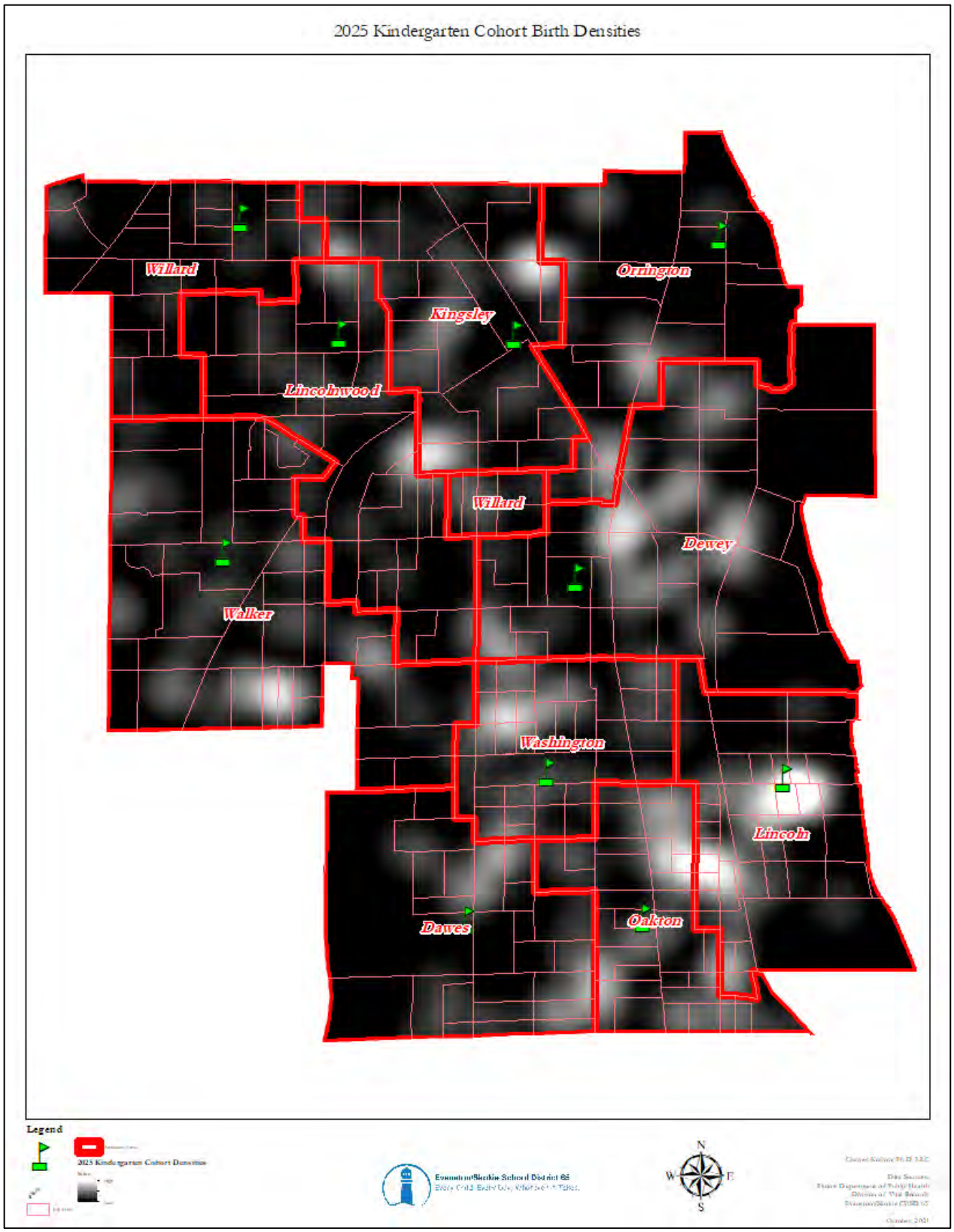
Map 42: 2023 Kindergarten Cohort Birth Densities



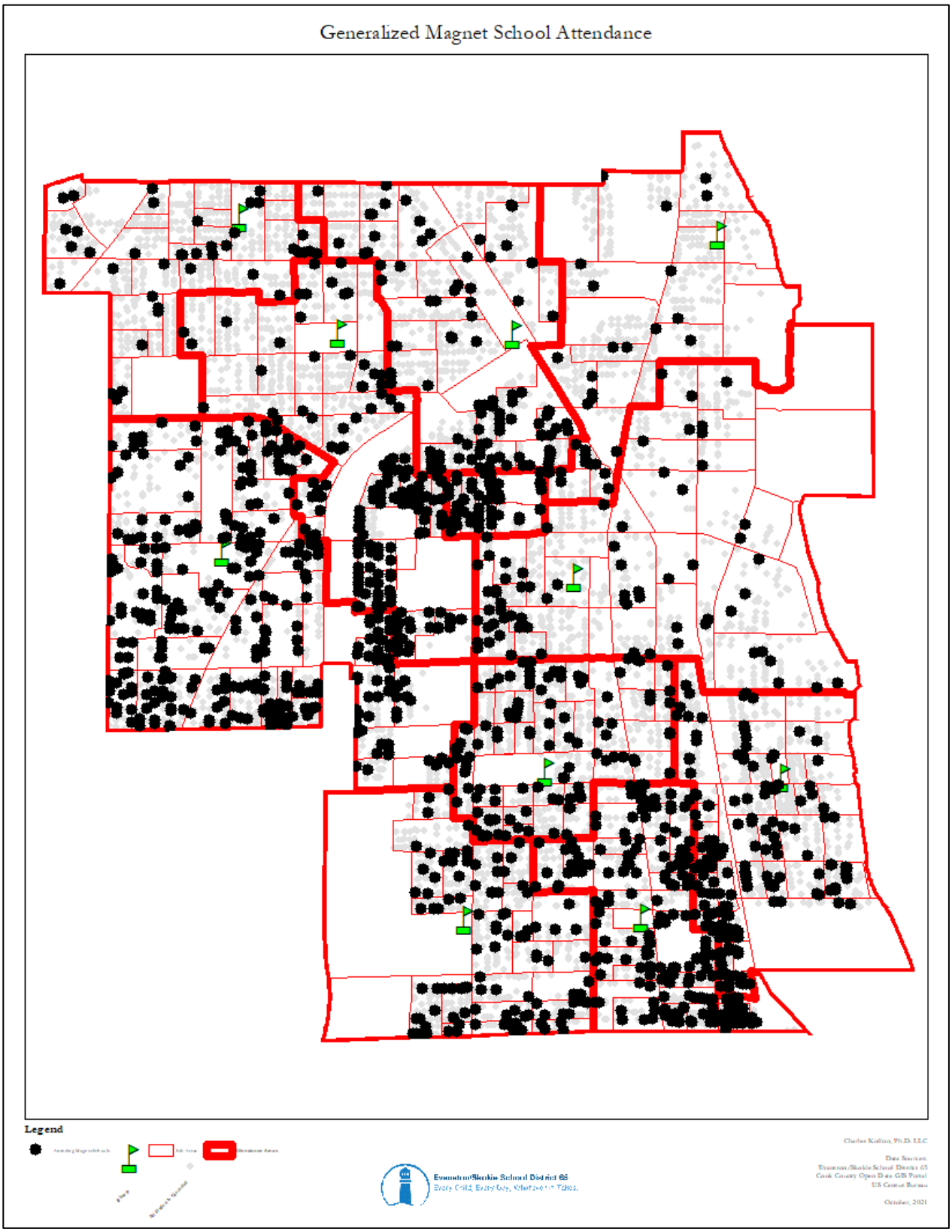
Map 43: 2024 Kindergarten Cohort Birth Densities



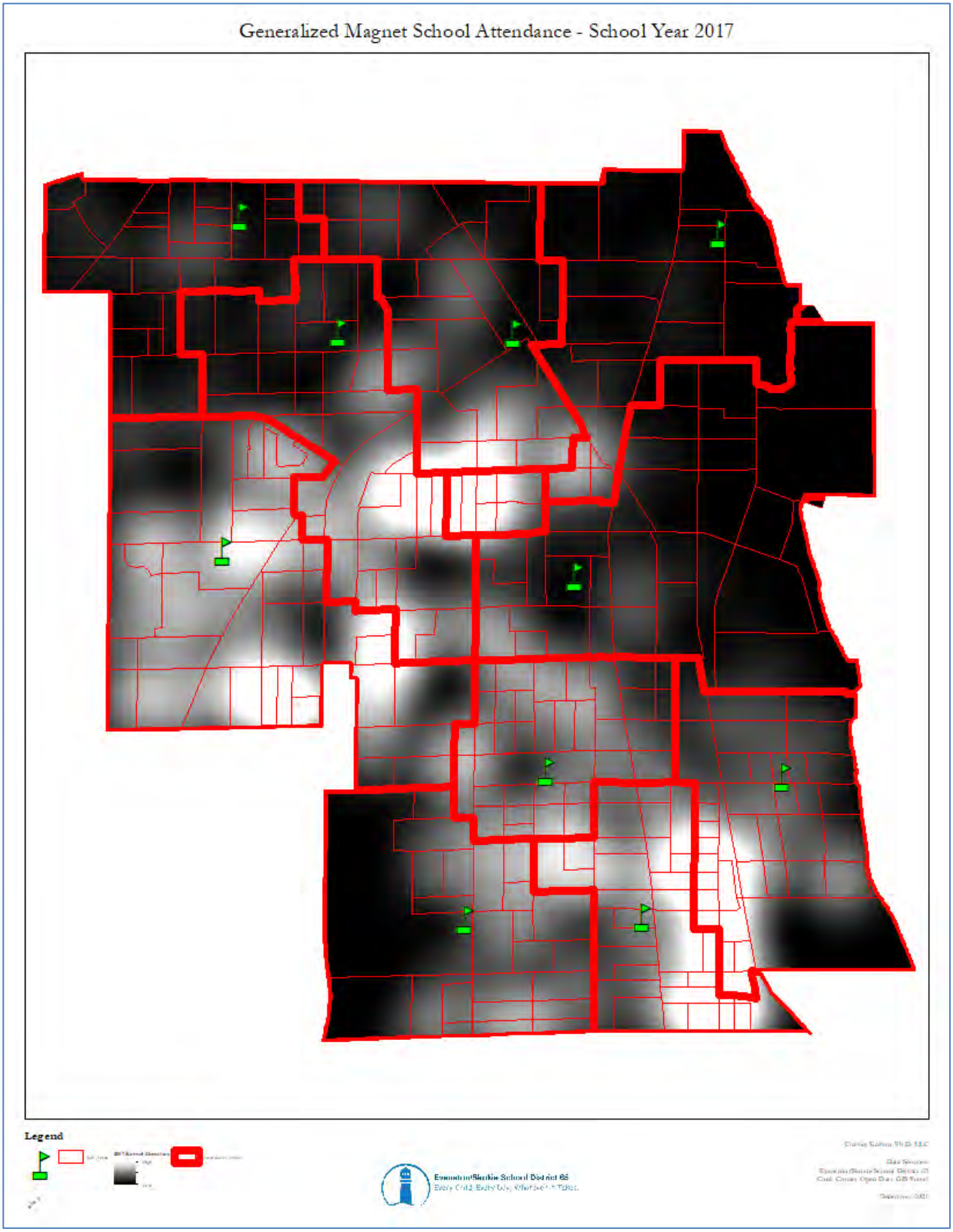
Map 44: 2025 Kindergarten Cohort Birth Densities



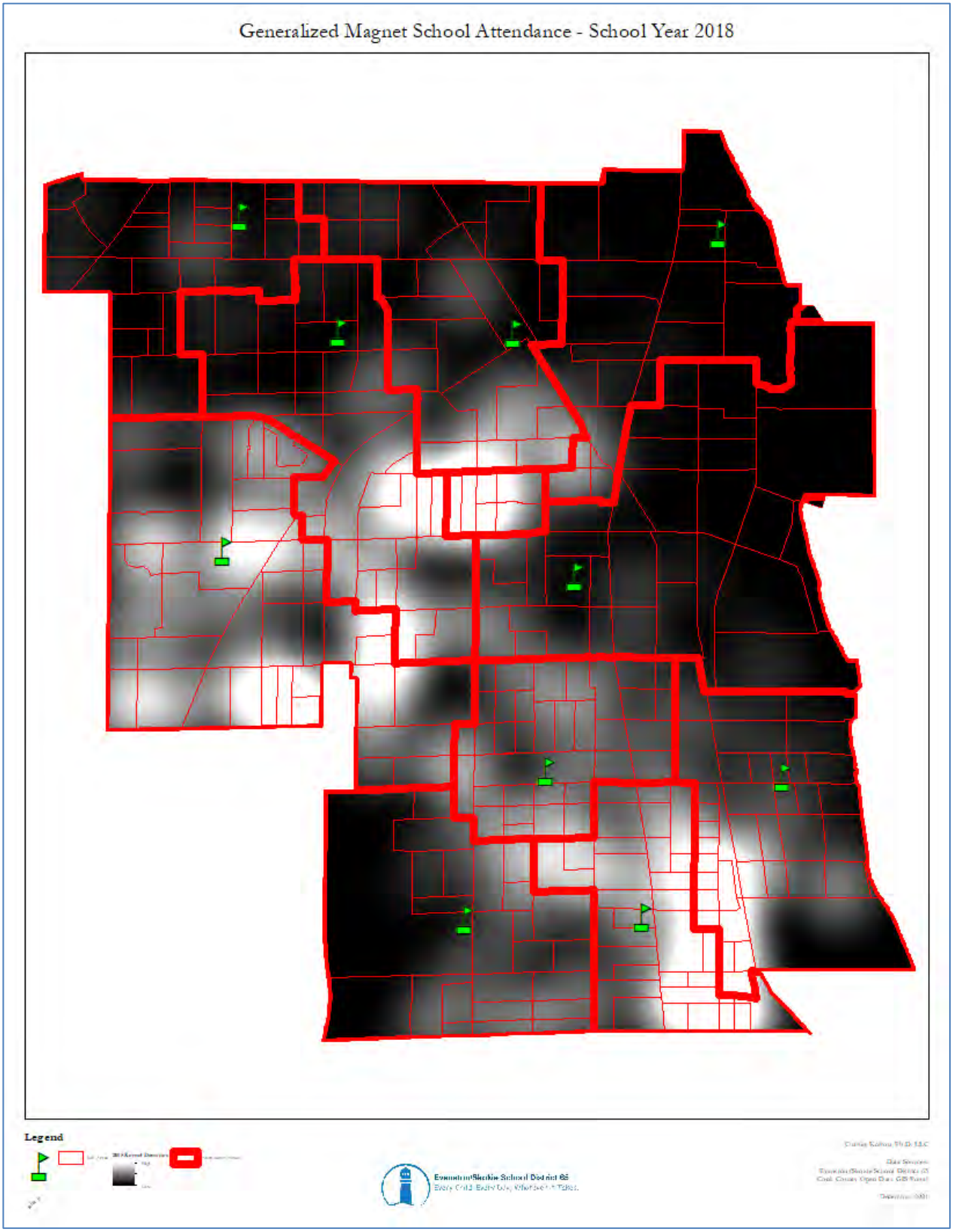
Map 45: Magnet School Attendance



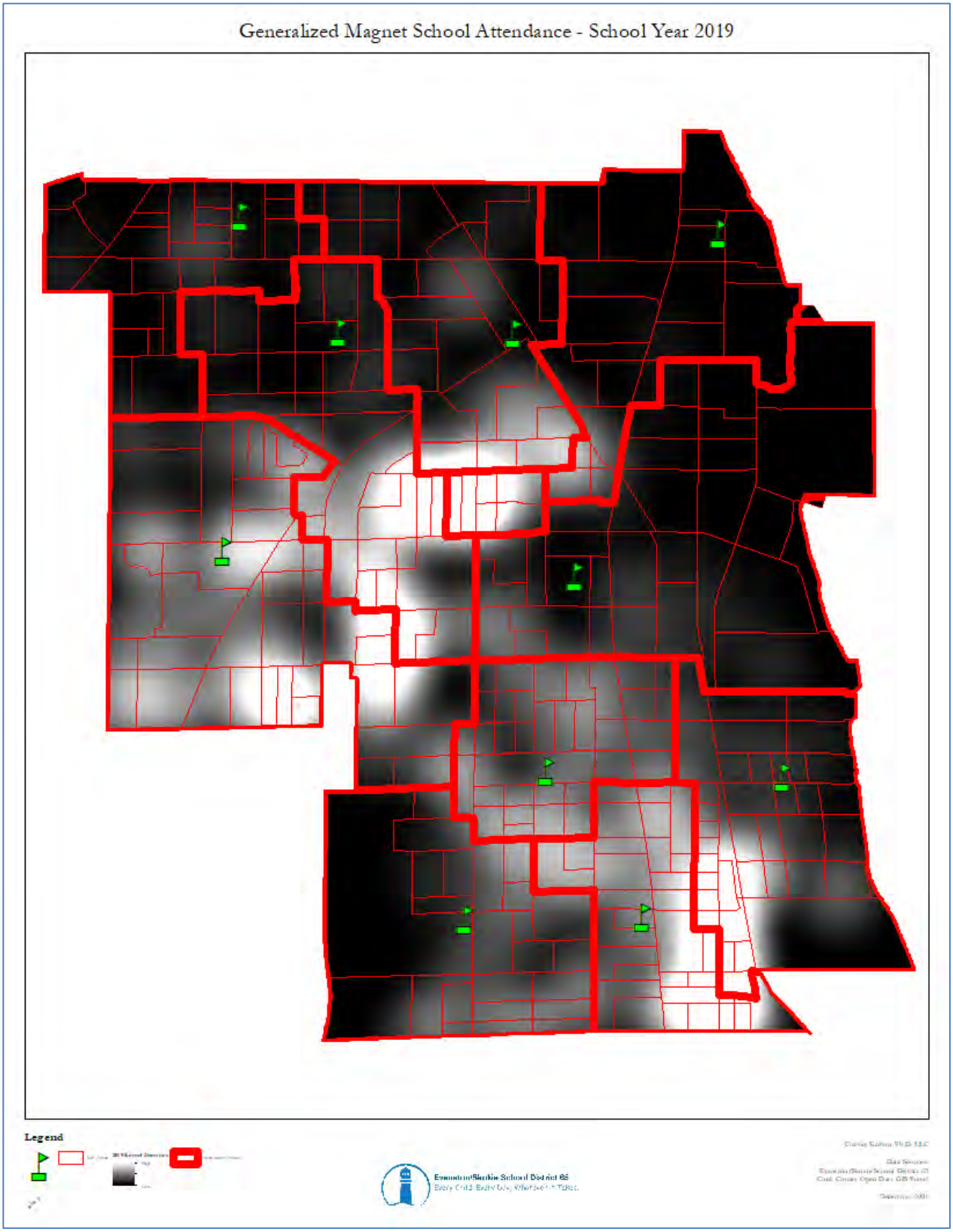
Map 46: Concentrations of Students Attending Magnet Schools in 2017



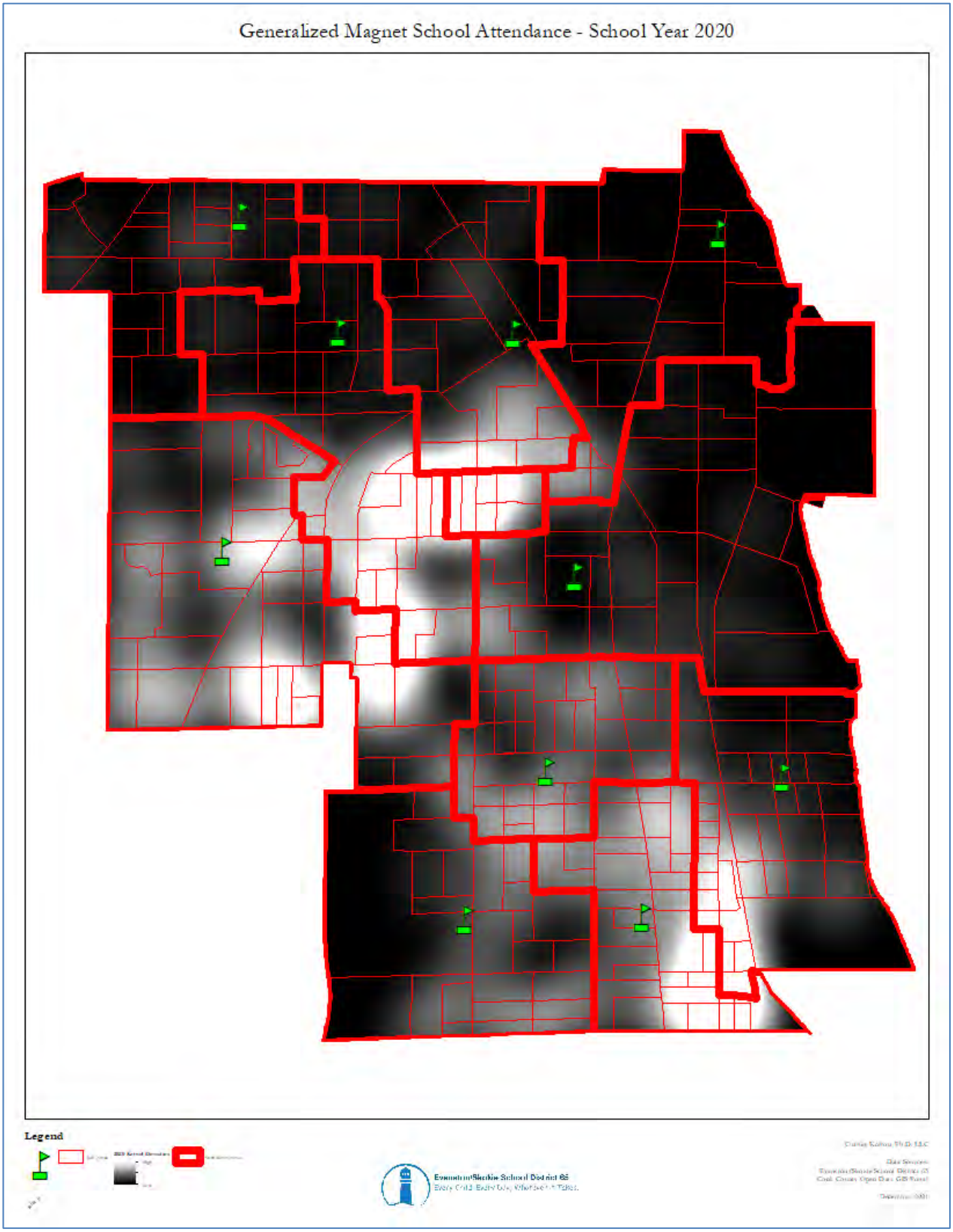
Map 47: Concentrations of Students Attending Magnet Schools in 2018



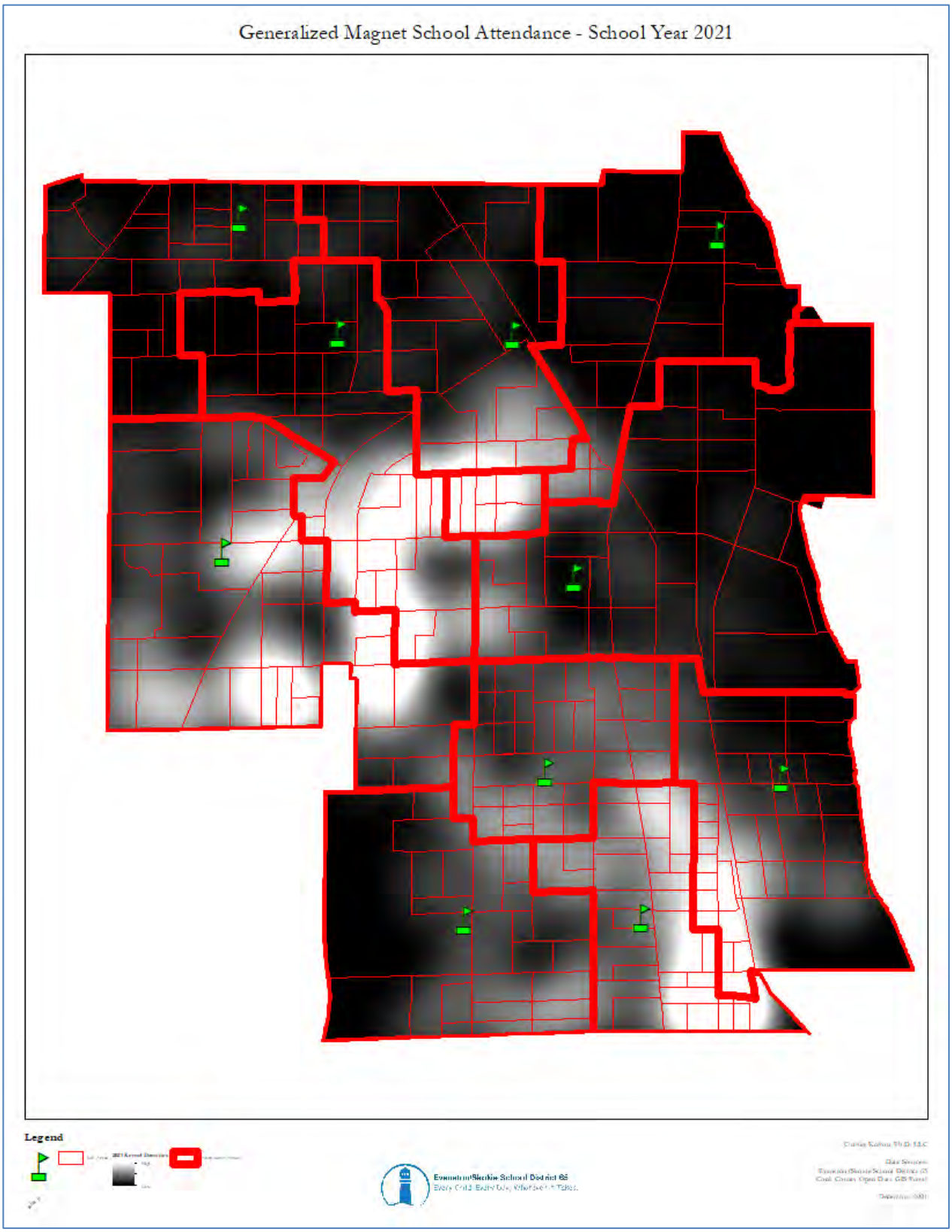
Map 48: Concentrations of Students Attending Magnet Schools in 2019



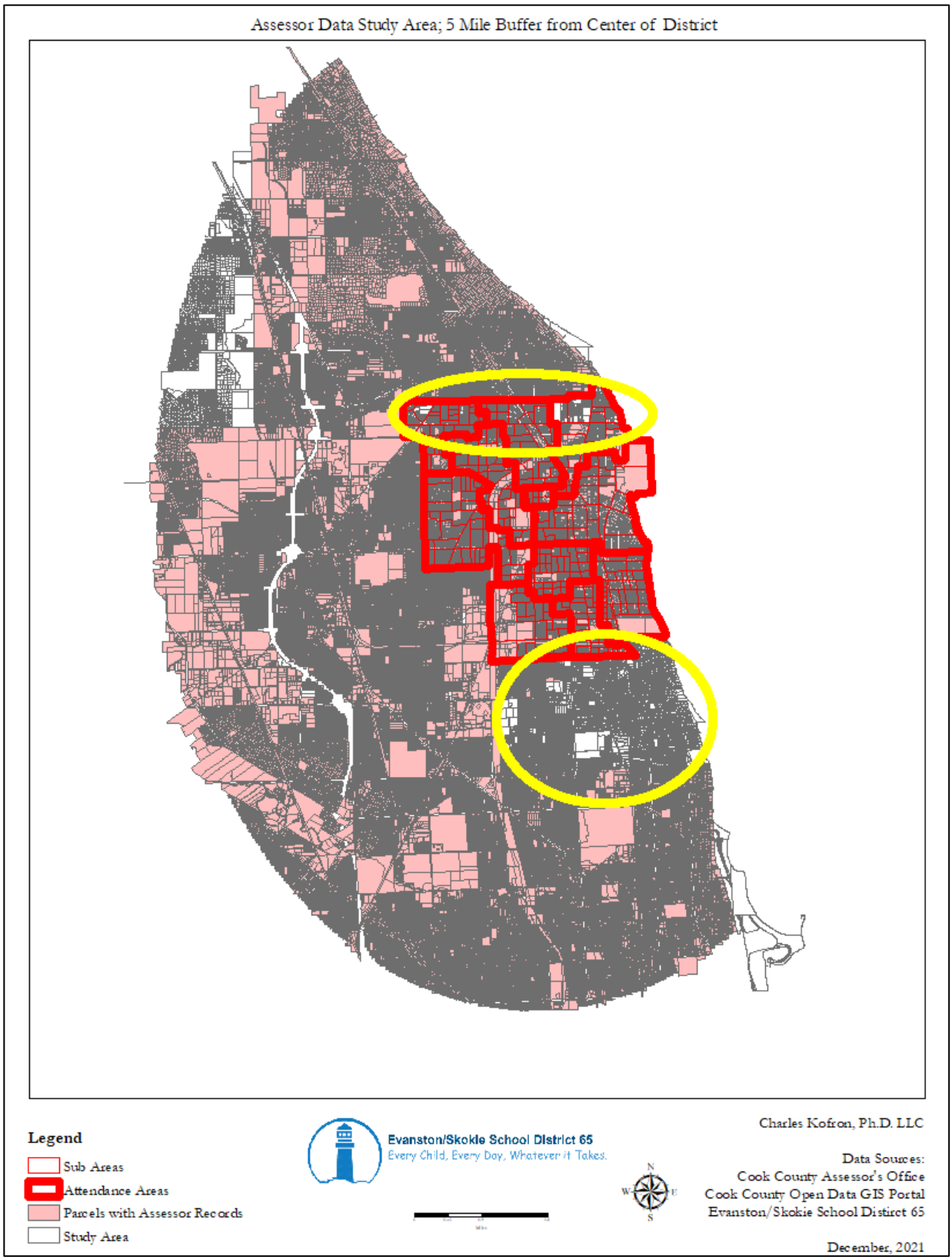
Map 49: Concentrations of Students Attending Magnet Schools in 2020



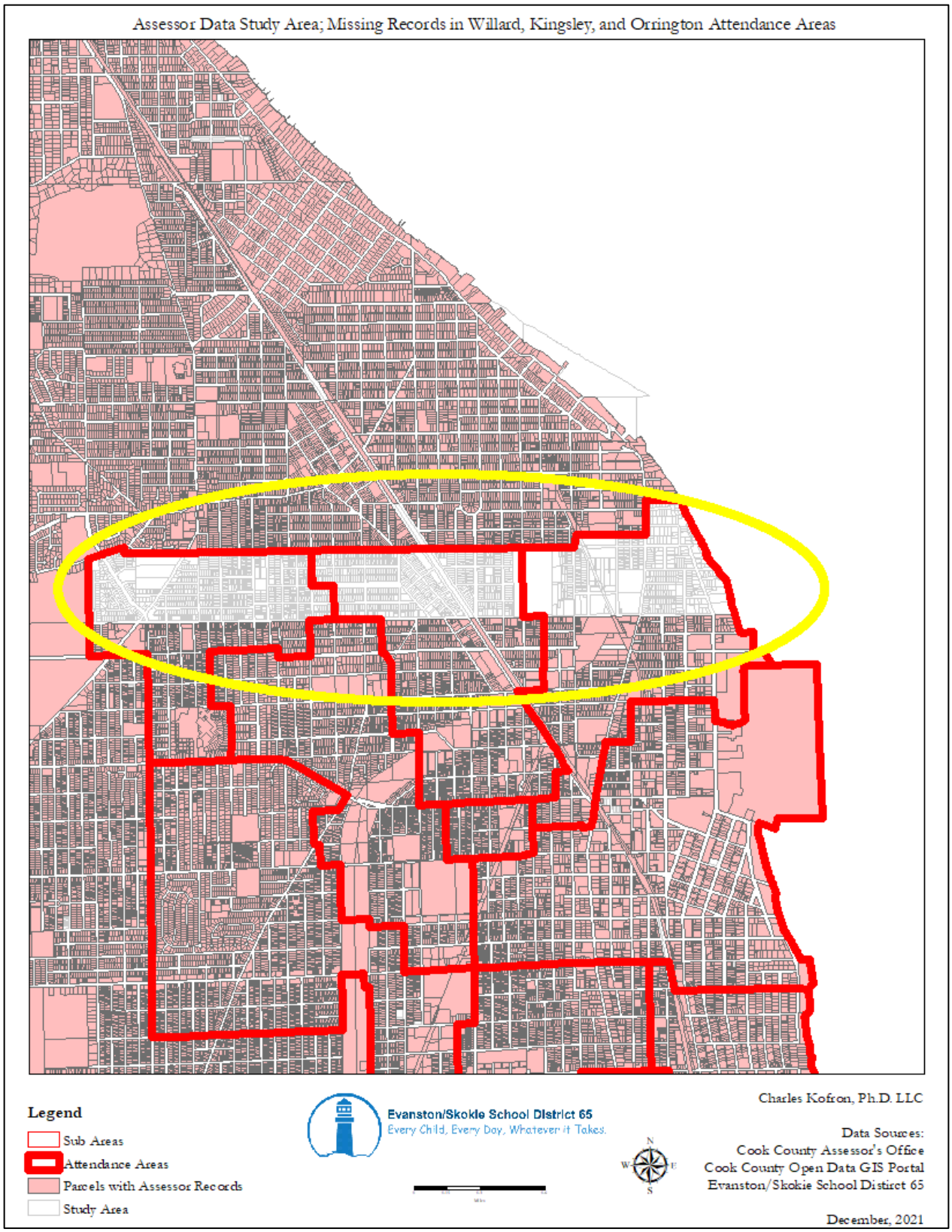
Map 50: Concentrations of Students Attending Magnet Schools in 2021



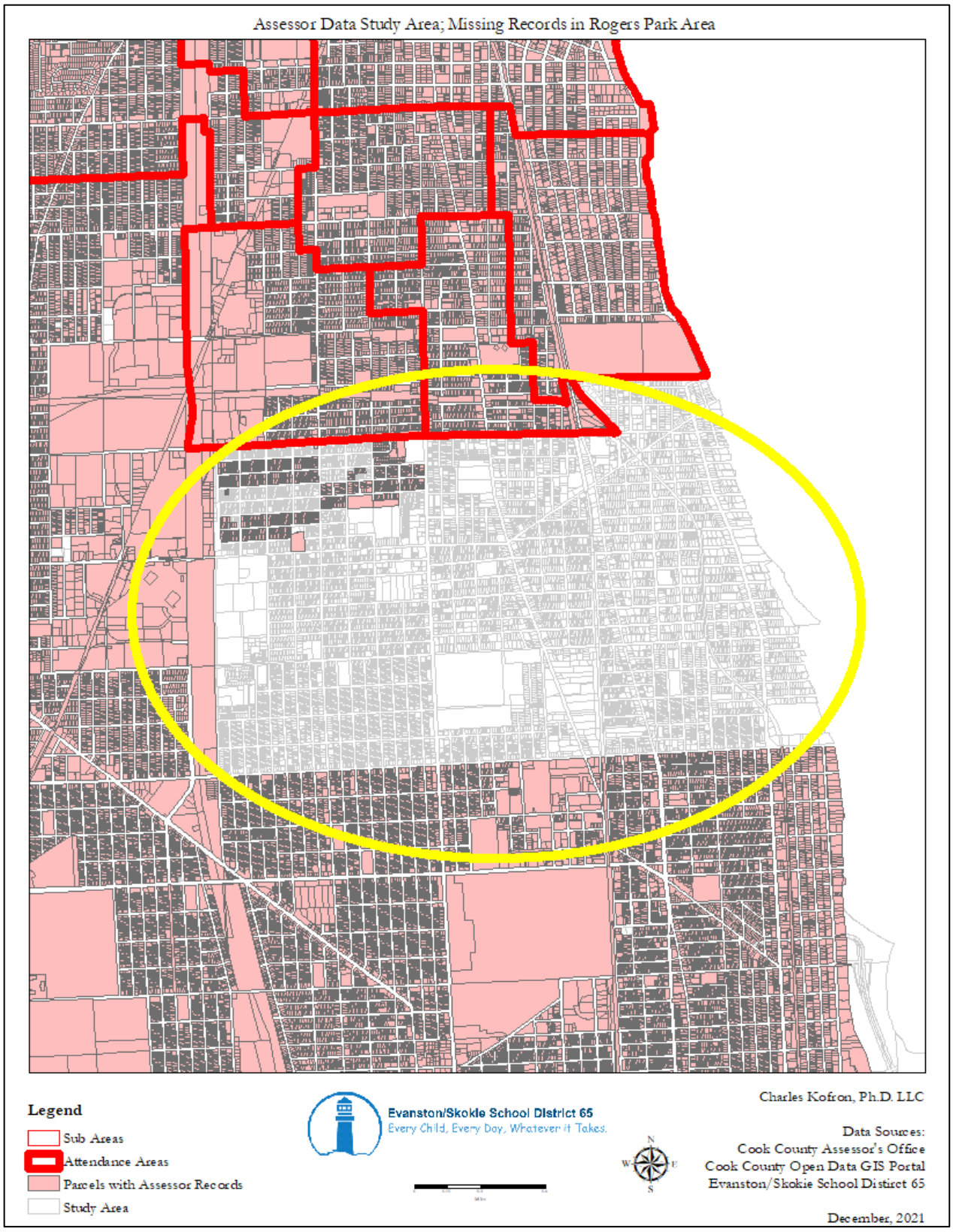
Map 51: Assessor Data Study Area



Map 52: Missing Assessor Data in North District Areas



Map 53: Missing Assessor Data South of District Boundary



Administrative Documents

Original Letter of Agreement



Charles Kofron, Ph.D. LLC_____

Evanston/Skokie School District 65
Letter of Agreement

August 2, 2021

Mr. Brian Kronewitter, AIA, DBIA
Executive Vice President
Cordogan Clark & Associates
716 N. Wells St.
Chicago, IL 60654

Dear Mr. Kronewitter,

Thank you for giving me (Charles Kofron dba Charles Kofron, Ph.D. LLC) the opportunity of participating with Cordogan Clark & Associates (CCA) in the development of a master facility plan for the Evanston/Skokie School District 65 (District). This is the letter of agreement (LOA) that authorizes my participation in this study.

This LOA covers items 1.d and 1.f of the District's RFQ and the not-to-exceed cost of $17,500 plus travel and other authorized expenses.

In response to item 1.d. of the District's RFQ, for the sum of $8,000, I will do the following.

1. Acquire demographic overview and age by sex estimate (2020) and projection (2025) projection tables from Environmental Systems Research Institute (Esri) for block groups intersected and targeted for analysis by block group. Esri data include the following.
    a 2020/2025 Demographic Overview
    b 2020 Population by Single Year by Sex
    c 2025 Population by Single Year by Sex
    d 2020 Population by Age by Sex by Race (5-year age groupings)
    e 2025 Population by Age by Sex by Race (5-year age groupings)
2. Assemble these data to thematically map population, housing, household, and family changes by block group for 2020 and 2025.
3. Develop maps and tables showing estimates and projected changes in demographic and housing characteristics by block group which will include attendance area overlays.
4. Download Cook County Assessor and parcel data and join Assessor to data to parcel data.

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5. Acquire existing attendance area boundaries from the District and digitize these boundaries using the Cook County parcel data. These attendance areas will be drawn from the 10 elementary attendance areas (Dawes, Dewey, Kingsley, Lincoln, Lincolnwood, Oakton, Orrington, Walker, Washington, Willard). As feeder areas to the three middle schools enrollments and projections will be summed for grades 6-8 for Chute, Nichols, and Haven middle schools. These 10 attendance areas (assuming no splits between elementary and middle school areas) with parcels, street centerlines and address points will constitute the District's base map. In addition, the District's subareas of current attendance areas will be digitized and used in spatial data overlays to preserve student and birth counts in the event that the District decides to change attendance area boundaries.

6. Develop counts of District residential housing by attendance area and subarea. Using geocoded student records from 2020, tabulate and compare student housing data by attendance area and subarea.

7. Develop maps showing changes in District housing using land use, other assessment data, and student residential locations with existing District attendance areas and subareas.

In response to item 1.f. of the District's RFQ and for the additional sum of $9,500, I will do the following.

8. Acquire Cook County address point and street centerline data for geocoding (address matching) student and birth records.

9. Request from the District and process student record addresses (K-8) for the last 10 school years and geocode these to the District's base map. Develop resident counts by grade, school year, subarea, and attendance area. Assemble these counts by class or cohort.

10. Request from the Illinois Department of Public Health (IDPH) and process birth data addresses over a 10-year period, assign births to Kindergarten cohorts, and overlay District attendance area and subarea boundaries for the purpose of generating Kindergarten cohort survival ratios and enrollment projections.

11. Develop and build out a cohort enrollment projection model by attendance area for grades K-8 using geocoded resident student and birth locations. The projection model will include at least 3 series of projections (high, mid, and low) using calculated cohort survival ratios. These projections will be made available to CCA for completing the master facility plan,

12. Summarize the findings of the study with maps, tables, charts and/or other graphics in a summary report.

Roles and Responsibilities

Whereas this study is based on District and US Census Bureau geographies or units for tabulating population, housing, student, and birth counts; and

Whereas this study requires District student address record counts to prepare enrollment projections for existing attendance areas and possible revised or new attendance areas; and

Whereas the District is the steward and source for student address records; and

Whereas this study uses geographic information system technology to match and count address records by parcel, subarea, and attendance area; and

Whereas not all student and birth records are expected to match Cook County address points and street centerline data and the District is required to review these records to increase the accuracy of enrollment projections; and

Whereas this study makes use of confidential information protected by state and federal law; and

Whereas the District is the steward and source of geographic data expertise for addresses, subareas, and attendance areas;

Then the District's roles and responsibilities in and for the demographic study for the master facility plan requires the following.

1) Provide a point of contact (POC) for the geographic and student address data necessary for conducting the demographic study; and
2) Oversee, define, and verify all maps and geographic subareas that constitute the base map for this study and that are also created by Charles Kofron; and
3) Abide by confidentiality agreements with the IDPH and CCA; and
4) Produce hardcopies (if necessary) of maps and tables and reference materials that are provided by Charles Kofron in electronic format (e.g., pdf, Excel spreadsheets, Word documents) for reviewing unmatched student and birth address counts; and
5) Provide 10 years of student address records in a machine-readable format (Excel file) from a consistent point in time in the school year (e.g., September 30) for matching address records to the District's base map; and
6) Review and manually match student address that are not matched by Charles Kofron with the use of a geographic information system and manually identify the location of unmatched addresses in subareas of the District's base map; and
7) Return counts of student addresses by subarea and grade that are manually matched by the District to Charles Kofron for inclusion in the enrollment projection model; and
8) Enter into a Data User Agreement with the IDPH for requesting, accessing, and reviewing birth record addresses; and
9) Review and manually match birth addresses that are not matched by Charles Kofron and count the number of addresses found within the District by Kindergarten cohort year and subareas in the District. ****Special Note: the District will be required to do this work at and under the general supervision of the Illinois Department of Public Health (IDPH) at IDPH facilities. The District will not be allowed to leave IDPH with birth record addresses, but only counts of birth records by subarea and Kindergarten cohort year that fail to match the District's base map.****
10) Return counts of birth addresses by subarea and assigned Kindergarten cohort years that are manually matched by the District to Charles Kofron for inclusion in the enrollment projections model; and

11) Define the strategy for selecting and aggregating block group geography for defining school and community areas.

Whereas Charles Kofron is directing the demographic study and processing demographic, housing, and address data for the master facility plan on behalf of CCA for the District; and

Whereas Charles Kofron is licensed to use geographic information system software and data for this study; and

Whereas Charles Kofron has a working knowledge of geographic information system software to create, process, and analyze spatial and tabular data; and

Whereas Charles Kofron has a working and trusted relationship with the IDPH for processing birth data for District planning; and

Whereas Charles Kofron has demographic domain and data processing knowledge to produce counts and enrollment projections by attendance areas; and

Whereas Charles Kofron has the ability to process and analyze demographic estimates and projections and housing counts and characteristics by census block and block group;

Then Charles Kofron's roles and responsibilities in and for the demographic study of the master facility plan requires the following.

1) Work with CCA to coordinate the explanation and work requirements of the demographic, housing and enrollment projections used in the study (see CCA items below) with the District; and
2) Obtain, process, analyze, and produce maps, tables, and graphics of demographic and housing data from secondary sources identified as Environmental Systems Research Institute (Esri), the Cook County's Assessor's Office, the Cook County Open Data Portal, and the District; and
3) Digitize (digitally encode) District attendance area and subarea boundaries and produce maps for review and boundary verification; and
4) Revise and finalize map compilations based on District reviews; and
5) Provide finalized map compilations to the District and CCA in the form of electronic (pdf) files for reference; and
6) Geocode student address records provided by the District and return to the District for review, in the form of an Excel spreadsheet, and manual assignment to District subareas addresses that can't be located within District attendance areas and subareas using geographic information system technology; and
7) Obtain and assign 10 years of birth address records to Kindergarten cohort years that have been requested by the District; and
8) Geocode birth address records extracted by the IDPH and under the supervision and oversight of the IDPH as these data become available; and
9) Return to the IDPH birth records that cannot be matched to the District's base map and require District review in the form of an Excel spreadsheet for the assignment of subareas to these records; and

10) Assure that the District has access to unmatched birth addresses for review at IDPH facilities; and
11) Provide the District with maps and other resources, including training, that may be used to manually match student and birth records that can't be matched by geographic information systems technology; and
12) Build a cohort enrollment projections model using geocoded and reviewed student and birth address counts; and
13) Analyze and summarize enrollment projections by subarea and attendance areas and provide these data to CCA and the District for the master facility plan; and
14) Summarize the demographic, housing, and enrollment projections data in a report with all graphics, tables, and maps and provide this report to CCA; and
15) Provide data and yet to be defined support for other District initiatives including redistricting.

Whereas CCA is the lead contractor for the District's master facility plan; and

Whereas CCA is providing general oversight for developing the master facility plan; and

Whereas CCA requires and will be using demographic, housing, and enrollment projections by Charles Kofron for determining facility plans and modifications;

Then CCA roles and responsibilities in the demographic study include the following:

1) Enter into the master facility plan contract or letter of agreement (Contract) with the District for Charles Kofron to conduct the demographic, housing, and enrollment projection study; and
2) Authorize the work and billing arrangement of Charles Kofron for the District as explained in the General Understanding section below and by signing this LOA; and
3) Coordinate and communicate to the District with the support of Charles Kofron explanations of District roles and responsibilities as required to facilitate data acquisition, analysis, and master facility plan development; and
4) Coordinate and communicate with the support of Charles Kofron explanations of demographic, housing, and enrollment projections and the use of these data in the development of the master facility plan; and
5) Provide assurances in the Contract with the District for the indemnification of the work of Charles Kofron as a subcontractor; and
6) Abide by confidentiality agreements with the District concerning student record counts; and
7) Provide the means of accepting invoicing and paying for work started and completed by Charles Kofron as itemized above; and
8) Authorize additional work with the District by Charles Kofron that is agreed to by the District and Charles Kofron that is not included in the itemization of work above.

General Understandings

CCA understands that Charles Kofron is not responsible for the content or the accuracy of the estimates and projections acquired from Esri. These data have been developed by Esri using proprietary algorithms from a variety of other (secondary) data sources that are used to make demographic and housing estimates and projections by block group for the entire country.

CCA understands that Charles Kofron is not responsible for the accuracy of parcel and assessment data acquired from Cook County. These data reflect end-of-year (EOY) assessments and the characteristics of housing units at the time these data are finalized.

CCA understands that a typical billing arrangement with Charles Kofron is for half of the amount to be paid within 30 days of the beginning of the study (or the signing of a letter of agreement). The remaining half of the amount will be due within 30 days after the final report is delivered. Agreed upon travel and other costs not included in this LOA will be invoiced separately and paid within 30 days.

CCA understands that will be no change to this LOA unless both parties agree to the change in writing. However, CCA in coordination with the District may wish to include additional options beyond this scope of work. Additional services beyond this agreement will require the written consent of Charles Kofron and CCA Additional hours will be billed at the rate of $125 per hour.

CCA understands and accepts the condition that Charles Kofron, Ph.D. has no control over the scheduling or the releasing of data by local and state government or private-sector data providers. Charles Kofron will work with the District and CCA to obtain the timely release of all data required by this study; however, specific dates for the release of these data cannot be anticipated or guaranteed.

Charles Kofron and CCA will comply with all requirements for maintaining the confidentiality of data, nondisclosure, and/or specific use. Data provided under these terms will only be used for the intended purposes of this study.

Charles Kofron understands that the role of Charles Kofron, Ph.D. LLC will be as a subcontractor to CCA. All invoicing for services will be made to and paid by CCA.

If these terms are agreeable, please sign and return a copy of this LOA.

Sincerely,

Charles Kofron

Charles Kofron

Accepted by

Brian Kronewitter **

Brian Kronewitter

8/10/21

Date

** Assumes that E/S SD65 acknowledges and agrees to their responsibilities highlighted in the LOA. Email sent to E/S SD65 requesting their review and acknowledgement

Student Data Privacy Agreement

STUDENT DATA PRIVACY AGREEMENT

This AGREEMENT is made and entered into by and between Evanston Skokie School District 65, Cook County, Illinois (the "District") and Charles Kofron, Ph.D. LLC ("Contractor")(collectively referred to as the "Parties").

WITNESSETH:

WHEREAS, Contractor has been engaged by Cordogan Clark & Associates, Inc., the District's architect,to conduct an enrollment study of the District ("Study"); and

WHEREAS, for Contractor to complete the Study, it requires certain information about the District's students;

WHEREAS, the District is willing to provide the information that Contractor requires, onthe terms and conditions contained herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the District and Contractor agree as follows:

1. **TERM AND TERMINATION:** The term of this Agreement shall commence on the date thatthe last party signs below and shall continue in effect until the Study is complete. The Districtmay terminate this Agreement, without cause, upon seven (7) days written notice to Contractor.

2. **RECORDS AND CONFIDENTIALITY:** The Contractor shall have access to student recordsof the District only to the extent necessary to complete the Study. The Contractor agrees thatany information it receives with respect to individual District students shall remain the propertyof the District and shall be treated and maintained by the Contractor as confidential informationand used only for the identified purposes in conjunction with the Study. Student record information shall not be disclosed by the Contractor to third parties for any reason other than to law enforcement or medical personnel in the event of an emergency or as otherwise may berequired by law, and will not be used for the Contractor's own personal or business purposes outside the completion of the Study. If there is a breach of such information (i.e. disclosure toa third party by Contractor), the Contractor shall, within two (2) calendar days of knowledge of the incident, inform the District of the breach and the data affected. Contractor further agreesto comply with all state and federal laws, including, but not limited to, the *Illinois School StudentRecords Act*, the Illinois *Mental Health Act and Developmental Disabilities Confidentiality Act*, the federal *Family Educational Rights and Privacy Act*, and all rules and regulations governingthe release of student records. Contractor also shall abide by all other records confidentiality obligations of the District and all District policies and procedures applicable to same.

   Upon termination of the Agreement with or without cause, including, but not limited to, termination under the provisions of this Agreement or expiration of its term, any student recordinformation in possession of Contractor shall be returned to the District and all copies of suchinformation in all formats destroyed in accordance with all applicable laws and U.S. Department of Education and Privacy Technical Assistance Center guidelines within 30 days

of termination unless the Agreement provides for Contractor to maintain the records for a longer period of time.

3. **COMPLIANCE WITH LAWS**: Contractor shall comply with all applicable laws, ordinances, rules, regulations and codes, including but not limited to (if and to the extent applicable) the *Illinois Human Rights Act*, 775 ILCS 5/1-101 *et seq.* and the provision of sexual harassment policies and procedures pursuant to Section 2-105 of that Act, including the regulations promulgated thereunder; the Equal Employment Opportunity Clause at Title 44, Part 750, of the Illinois Administrative Code (*see* 44 Ill. Admin. Code 750.20), which is fully incorporated herein; federal Equal Employment Opportunity Laws, including, but not limited to, the *Americans With Disabilities Act*, 42 U.S.C. Section 12101 *et seq.*, and rules and regulations promulgated thereunder; certifications concerning not being barred from bidding and complying with Illinois Use Tax requirements under the Illinois *School Code* (105 ILCS 5/10-20.21); and the Illinois *Drug Free Workplace Act* (30 ILCS 580/1 *et seq.*).

4. **INDEMNIFICATION:** Contractor will indemnify, defend, and hold harmless the Board of Education of Evanston Skokie School District 65, its individual Board members, the District, and its employees, and agents ("Indemnitees") from and against all liabilities, losses, damages, costs and expenses, including attorney's fees, to the extent arising from any act or omission of Contractor in connection with this Agreement. The foregoing indemnification shall survive the expiration or termination of this Agreement. Additionally, the Contractor waives any and all rights against the District that it may have under any Worker's Compensation Act or interpretations of such laws.

5. **INSURANCE:** Contractor shall obtain and maintain in effect during the term of the Agreement, at its own expense, general liability insurance coverage and provide the District with a certificate of insurance verifying such coverage in an amount of no less than $1,000,000 per occurrence and in the aggregate. Contractor shall also maintain cyber liability insurance in an amount of no less than $1,000,000. Contractor shall name the Indemnitees as additional insureds on all insurance required hereunder. All insurance of Contractor shall be primary and noncontributory. Contractor waives any right of subrogation it and its insurers may have against the additional insureds.

6. **MISCELLANEOUS PROVISIONS:**

    a. **WAIVER:** The failure of either Party to enforce any provisions of this Agreement shall not be deemed a waiver or limitation of that Party's right to subsequently enforceand compel strict compliance with every provision of this Agreement.

    b. **ENTIRE AGREEMENT:** This Agreement constitutes the entire agreement between the Parties and supersedes any prior understanding or representation of any kind preceding the date of this Agreement. There are no other promises, conditions, understandings or other agreements, whether oral or written, relating to the subject matter of this Agreement. This Agreement may be modified in writing, which amendment must be signed by both the District and Contractor to be effective.

c. **GOVERNING LAW:** This Agreement shall be governed by and construed in accordance with the laws of the State of Illinois. The appropriate venue for any litigation arising out of this Agreement shall be Illinois Circuit Court or a federal district court in Illinois.

d. **SUBCONTRACTING AND ASSIGNMENT:** Contractor shall not have the right to subcontract, delegate, assign or otherwise transfer his/her right or obligations under this Agreement without the prior written consent of the District, which may be withheld in its sole discretion. Subject to the foregoing, this Agreement shall inure to the benefit of and be binding upon the Parties and their respective successors and permitted assigns.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on the date(s) written below.

EVANSTON SKOKIE SCHOOL DISTRICT 65	**CHARLES KOFRON, PH.D. LLC**
By:_____	**By:**_____
Its: _____	**Its:** _____
Date _____	**Date:** _____

DATA USE MEMORANDUM OF UNDERSTANDING
BETWEEN
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
AND
EVANSTON/SKOKIE SCHOOL DISTRICT 65
Single Use
MOU Number 21S002

The Illinois Department of Public Health (DPH) and Evanston/Skokie School District 65 (School District) hereby enter into this Data Use Memorandum of Understanding (Agreement) in connection with the request received to process data to estimate the future needs of the School District. DPH and School District are collectively referred to herein as "Parties" or individually as a "Party." To fulfill the terms of this Agreement the Parties agree to the following:

ARTICLE I
INTRODUCTION

1.1 Background. Hospitals, funeral homes, and coroners submit vital records data to DPH pursuant to the Illinois Vital Records Act (410 ILCS 535) and the Illinois Vital Records Code (77 Ill. Adm. Code 500). Section 1 of the Act defines "vital records" to include records of births, deaths, fetal deaths, marriages, dissolution of marriages, and related data. Sections 500.20 and 500.70 of the Illinois Vital Records Code authorizes DPH to release limited vital records data to a bona fide researcher who has entered into a data use agreement covering access, usage, distribution and confidentiality of the data. School District requests use of the data for the purposes set forth in Section 2.1 below.

1.2 Purpose. Upon the execution a data use agreement, confidential Illinois vital records data may be released by the State Registrar of Vital Records when deemed essential for bona fide research purposes which are not for private gain (410 ILCS 535/4). The State Registrar of Vital Records may furnish, upon terms and conditions he may prescribe under the Act, when deemed in the public interest and not for purposes of commercial solicitation or private gain, copies of vital records or data from these records to public agencies administering health welfare, safety, law enforcement, or public assistance programs, 77 Ill. Adm. Code 500.20(a). Data will be provided to School District for the purposes outlined in Article II of this Agreement, which sets forth all of the School District's responsibilities and limitations related to the Data. This Agreement applies to all Data provided, in full or in part, and any and all summaries or aggregations of Data that may be derived from original Data or any subset thereof.

Evanston/Skokie School District 65 (School District) has submitted a request for birth data to plan for future needs regarding enrollment, class size, and the number of classrooms and schools. The data on future class size is needed for the School District to plan for programs, including the provision of public health screening and assessments, and may be used for the planning of public health services to students. The School District is involved with a cooperative agreement with Charles Kofron, Ph.D., (Data User), as a contractor/consultant for the purposes of geocoding.

ARTICLE II
DATA TO BE PROVIDED

2.1 Project. The School District requests the use of birth data to assist the Data User in estimating the future needs regarding enrollment, classroom size, and the number of classrooms and schools. The Data User will use Data from the previous 10 calendar years available to geocode the information. Specific rules regarding the use of the Data by the Data User can be found in Attachment A, which is incorporated into this Agreement.

2.2 Data Elements. The data elements to be provided can be found in Attachment B, which is attached and hereby incorporated into this Agreement.

The data elements to be provided are address, city, zip code, latitude and longitude, race, ethnicity, month and year of birth, and sex.

a. The data will be provided for the following zip code(s): 60201, 60202, 60203, 60091, 60645, 60626 and 60076.

b. Data to be supplied are for the most recent 10 calendar years available and additional calendar years that will become available during the term of this agreement. Data User will generate the counts of births for each year of data for the School District.

c. In the event that Data User provides written notification the Department that Data User requires additional data elements, the Department shall review the request. The request shall be submitted pursuant to Article VI (6.1) and Article VII (7.2).

2.3 Use of Data. Data User and the School District are granted limited use of the data (Data) for the purposes as indicated in the data request form and related correspondence, which are hereby attached and incorporated. Data User and the School District shall use this Data for the future classroom size needs to plan for programs, including the provision of public health screening and assessments, and may be used for planning of public health services to students. Use of the Data for any purpose other than the purpose expressly set forth by this Agreement requires (i) Data User and the School District to submit a separate data request and; (ii) the Parties to execute a separate data use agreement.

ARTICLE III
DEFINITIONS

3.1 Data. Data means the data requested from DPH in the data request form and related correspondence and provided to Data User and School District for the purpose(s) set forth in this Agreement.

3.2 School District. School District means the organization entering into this Agreement as a Party.

3.3 Original Data. Original Data means the original, patient-level Data received from DPH, or any patient-level data created from the original Data. Any aggregation, report, or analysis containing a cell size less than 10 and/or rate with numerator less than 10 is considered patient-level data in that it may represent a high probability of patient identification. Original Data does not include any resulting product created by School District using wholly or in part the Original Data, so long as the resulting product does not reveal a cell size less than 10 and/or rate with numerator less than 10, due to the statistically high probability of patient identification.

3.4 Data User. Data User means the principal user of Data, and is an individual working for, or on behalf of, the School District in furtherance of the Project goals as set forth in Section 2.1. Data User has primary oversight of Data use by individuals working for, or on behalf of, the School District in furtherance of the Project goals

and will ensure that individuals accessing Data in furtherance of the Project goals act in compliance with this Agreement.

ARTICLE IV
USE OF DATA, TERMS AND CONDITIONS

4.1 Confidentiality. Data User and School District shall maintain the confidentiality of the data.

4.1.1 DPH shall retain exclusive ownership of all Data provided under this agreement. This Agreement is not intended to convey any ownership or other interest other than a limited right to use DPH data for the purposes expressly stated herein.

4.1.2 Data User and the School District understand and agree that any and all Data provided by DPH which may lead to the identification of any patient, physician, other person, or reporting facility is strictly privileged and confidential. Data User and the School District agree to keep all such Data strictly confidential at all times.

4.1.3 Data User and the School District will report Data in such a way as to maintain the confidentiality of individual records. Data User and the School District will not report Data in a way that will enable identification of any individual patient or individual facility. Therefore, Data User and the School District agree not to publish, disseminate, or otherwise release any information acquired or produced pursuant to this Agreement with cell size less than 10 and/or rate with numerator less than 10, due to the statistically high probability of patient or facility identification. Data User and the School District further agree not to publish, disseminate, or otherwise release any raw Data provided by DPH pursuant to this Agreement.

4.1.4 School District, on behalf of itself and Data User, agrees that it will not use any means or methods to interpret, analyze, or manipulate Data in an attempt to identify any individual patients using either the Data provided pursuant to this Agreement, or any other available data sets. School District will not attempt to link, or permit others to attempt to link, the health care records of persons in this data set with personally identifiable records from any other source.

4.1.5 The School District shall not publish, share, loan, disseminate, copy, reproduce, or otherwise release any information acquired or produced pursuant to this Agreement without adhering to the procedures outlined in this Agreement, including obtaining the Department's prior written approval.

4.1.6 School District shall notify DPH in writing within one (1) business day following its receipt a Freedom of Information Act (FOIA) request, subpoena or court order related to the Data provided pursuant to this Agreement. DPH shall determine whether the information sought contains identifiable or confidential information, and whether it shall be released.

4.1.7 Data User and the School District agree that, while conducting approved activities under the terms of this Agreement, if Data User or the School District receives a request for the release of an individual's identity or identifying information, the information **will not** be released, and DPH will be provided with written notification of the request within one (1) business day.

4.1.8 Data User and the School District will not, under any circumstances, permit the inspection or copying of the Data by any person not (i) directly involved in the Data use; and (ii) previously disclosed to DPH.

4.1.9 Data User and the School District will not allow third-party access to any portion of the Data without the prior, express written consent of DPH.

4.1.10 School District shall notify DPH in writing within twenty-four (24) hours of the time at which any violation of the terms, including but not limited to a breach in safeguards, security, or confidentiality, of this Agreement becomes known or suspected.

4.1.11 All obligations regarding confidentiality of Data shall survive the termination of this Agreement.

4.1.12 All obligations regarding retention of Data shall survive the termination of this Agreement.

4.2 Resale or Analysis of Data.

4.2.1 Data User and School District agree that the terms of Data usage are strictly conditioned upon an agreement and acknowledgement that the Data shall not be sold, assigned, shared, or transferred in any manner, and that any actual or attempted sale, assignment, or transfer, without the prior express written permission of DPH's Division of Vital Records (DVR), shall subject the Data User and/or the School District to all available remedies given to DPH and DVR under State and federal laws, rules, and regulations. Unless the agreed upon purpose of this Agreement is the resale of data, Data User and School District are prohibited from releasing, redistributing, or reselling DPH's original, patient-level data in any form, including linked data sets.

4.2.2 Unless the agreed upon purpose of this Agreement is the resale of data, Data User and the School District may not share, resell, redistribute, or make multiple uses of the Data and/or any output based on the Data including, analyses, studies, risk-adjusted or actual subsets or aggregations.

4.2.3 If the School District elects to use the Data and/or analyses or aggregation from the Data beyond the original termination date of this Agreement, such use shall be governed by the requirements of Sections 4.5.5 and 4.5.6 of this Agreement.

4.3 Contractors and Subcontractors.

4.3.1 Data User and School District shall not provide the Data to a subcontractor without DVR's prior express written permission. Any contractors or subcontractors given access to the Data to carry out manipulation and/or analyses on behalf of the School District shall signify their understanding of the need to maintain the confidentiality of such Data by signing a data use agreement with School District. School District shall provide DPH with a copy of the current language contained in such data use agreements prior to sharing and Data with any contractor(s) and/or subcontractor(s). DPH shall have the right to approve or reject any proposed contractor(s) and subcontractor(s).

4.3.2 All Data supplied to a contractor or subcontractor for use in a specific project must be returned to the School District or permanently destroyed upon completion of the project and purged from their system.

4.3.3 If Data are linked to other data sets and if a contractor or subcontractor performs the linking, the original Data shall be returned to the School District or destroyed following the linking of these Data.

4.4 Additional Assurances. School District provides the following assurances with respect to the Data obtained under the terms and conditions of this Agreement:

4.4.1 Individuals, including Data User, acting under School District's supervision for the purposes of Data manipulation, analyses or product preparation, shall complete and provide DPH with a signed Acknowledgement form (Attachment C). In the event individuals are added to the project and granted access to the Data, a signed Acknowledgement form should be submitted to DPH at the address in Section 7.9.

4.4.2 Individuals acting under the supervision of the Data User or on behalf of the School District for the purposes of using the analyses, studies, or aggregations based on the Data for marketing analysis, sales activities, or other business purposes shall use reasonable and appropriate safeguards and security measures to prevent the use or disclosure of the information for any purposes other than those permitted by this Agreement.

4.4.3 Individuals, including Data User, acting under School District's supervision, or on School District's behalf, shall use appropriate safeguards and security measures to prevent the use or disclosure of the Data for any purpose(s) other than those expressly permitted by this Agreement. School District agrees that anyone acting under School District's supervision or on School District's behalf shall have access to Data only at the level required to accomplish the work.

4.4.4 School District will make no statement nor permit others to make statements implying or suggesting that interpretations drawn are those of health care facilities that may be identified in the data, either individually or as a group, or of DPH.

4.4.5 School District agrees to store all electronic notes and Data on password protected computers at the School District, and not to remove Data or notes from School District property.

4.4.6 School District shall continuously maintain all Data provided under this Agreement in password protected and encrypted files.

4.5 Provisions of Data Release to Data User and the School District.

4.5.1 DPH will provide School District with a file containing the data elements indicated in the Data Element List, with a detailed record layout specific to the data requested.

4.5.2 Data will be released to the individual signing this Agreement as Data User, or on behalf of School District, within thirty (30) business days of both this Agreement being executed and receipt of payment, as specified in Article V.

4.5.3 Data User and the School District are granted use of the Data for the purposes stated in the data request form, set forth in Section 2.3, and pursuant to the restrictions and limitations of this Agreement and any applicable federal and State laws, rules, and regulations.

4.5.4 Except as provided in Section 4.2 above, all Original Data provided by DPH is the sole property of DPH and shall not be copied or reproduced in any manner without consent. Data User shall destroy all data and reproductions of the Data when the need for the Data has ended or the termination date of this Agreement is reached. Data User shall then return the signed Certificate of Destruction (Attachment D) to DPH signifying that the destruction was completed.

4.5.5 Data User and the School District understand that they may continue to utilize Data obtained under this Agreement or a previous agreement only if (i) the Data is being used for trending purposes; (ii) the Data will still be used for its original intended purpose(s); and (iii) Data User and the School District have a current, active agreement with DPH to use Data for the same purpose(s) as set forth in a previous agreement. Continued use of previously purchased Data for trending purposes shall not be subject to an additional fee; however, any additional Data supplied for use as set forth in this Agreement is subject to charges and administrative fees pursuant to DPH's active fee schedule.

4.5.6 If Data User and the School District intend to use previously purchased Data for any reason other than originally intended, DPH must be notified, and must issue written approval, prior to such change in use. Any change in the intended use of Data requires an amendment to the current Agreement, or the execution of a new data use agreement. The issuance of amendments and new agreements shall be at DPH's discretion.

4.5.7 Data User and School District will acknowledge the "Illinois Department of Public Health, Division of Vital Records, as a data source in any and all publications based on this data.

ARTICLE V
FEES AND PAYMENT

5.1 Fees. There will be no fees associated with this vital records Data request.

5.2 Additional Data Availability. Data available and accessible under the terms of this Agreement are limited to only the elements offered on the data element list supplied by DPH and allowed by the Illinois Vital Records Act (410 ILCS 535) and Code (77 Ill. Adm. Code 500). The elements selected may be changed by amendment to this Agreement signed by both Parties. Data User and the School District acknowledge that requesting additional data elements may result in additional fees for Data usage.

ARTICLE VI
TERM AND TERMINATION

6.1 Term. This Agreement shall commence upon final signature of the Illinois Department of Public Health Director and, unless otherwise terminated by the Parties, shall continue through **December 31, 2025** This agreement may be extended by written mutual agreement of the parties.

6.2 Termination on Notice. This Agreement may be terminated by either Party for any or no reason upon thirty (30) days' prior written notice to the other Party.

6.3 Termination for Breach. In the event Data User or School District breaches this Agreement and fails to cure such breach within ten (10) days' written notice thereof from DPH, DPH may terminate this Agreement upon written notice to the Data User/School District. Termination for breach will nullify the permissions for continued Data use as otherwise allowed by Sections 4.5.5 and 4.5.6, and Data User/School District will be required to destroy all Data provided pursuant to this Agreement within five (5) calendar days of termination.

ARTICLE VII
MISCELLANEOUS

7.1 Renewal. This Agreement may not be renewed.

7.2 Amendments. This Agreement may be modified or amended at any time during its term by mutual consent of the Parties, expressed in writing and signed by the Parties. Additional data requests will be subject to charges in accordance with the active fee schedule.

7.3 Applicable Law and Severability. This Agreement shall be governed in all respects by the laws of the State of Illinois. If any provision of this Agreement shall be held or deemed to be or shall in fact be inoperative or unenforceable as applied in any particular case in any jurisdiction or jurisdictions or in all cases because it conflicts with any other provision or provisions hereof or any constitution, statute, ordinance, rule of law or public policy, or for any reason, such circumstance shall not have the effect of rendering any other provision or provisions contained herein invalid, inoperative or unenforceable to any extent whatsoever. The invalidity of any one or more phrases, sentences, clauses, or sections contained in this Agreement shall not affect the remaining portions of this Agreement or any part thereof. In the event that this Agreement is determined to be invalid by a court of competent jurisdiction, it shall be terminated immediately. The parties expressly waive any rule of interpretation or construction that would construe any ambiguity against DPH. The exclusive venue of any action(s) filed under this Agreement shall be in the Illinois Court of Claims.

7.4 Records Retention. The Parties shall maintain for a minimum of five (5) years from the later of the date of final payment under this Agreement, or the expiration of this Agreement, adequate books, records and supporting documents. If an audit, litigation or other action involving the records is begun before the end of the five-year period, the records shall be retained until all issues arising out of the action are resolved.

7.5 No Personal Liability. No member, official, director, employee, or agent of DPH shall be individually or personally liable in connection with this Agreement.

7.6 Assignment; Binding Effect. This Agreement, or any portion thereof, shall not be assigned by any of the Parties without the prior written consent of the other Parties. This Agreement shall inure to the benefit of and shall be binding the Parties and their respective successors and permitted assigns.

7.7 Precedence. In the event there is a conflict between this Agreement and any of the exhibits hereto, this Agreement shall control. In the event there is a conflict between this Agreement and relevant statute(s) or Administrative Rule(s), the relevant statute(s) or rule(s) shall control.

7.8 Entire Agreement. This Agreement constitutes the entire agreement between the Parties and merges and supersedes all prior negotiations and understandings concerning the subject matter of this Agreement; no promises, terms, or conditions not recited, incorporated or referenced herein, including prior agreements or oral discussions, shall be binding upon either Party.

7.9 Notices. All written notices, requests and communications, unless specifically required to be given by a specific method may be (i) delivered in person, obtaining a signature indicating successful delivery; (ii) sent by a recognized overnight delivery or by regular mail to the address set forth below; or (iii) sent by e-mail to the e-mail address set forth below. Either party may at any time give notice to the other party of a change of name, address, or telephone or telefacsimile number.

To DPH:
Megan Clark-Jimenez, Assistant Division Chief
Illinois Department of Public Health
Division of Vital Records
925 E Ridgely Ave
Springfield, IL 62702
Megan.Clark-Jimenez@illinois.gov

To School District:
Rafael Obafemi, Chief Financial and Operating Officer
Evanston/Skokie School District 65
1500 McDaniel Avenue
Evanston, IL 60201
obafemir@district65.net

7.10 Availability of Appropriations. DPH's obligations hereunder shall cease immediately, without penalty, if: (i) the sufficient State funds have not been appropriated to DPH; (ii) the Governor or DPH reserves appropriated funds; or (iii) the Governor or DPH determines that appropriated funds may not be available. DPH shall provide written notice of any such funding failure and its election to terminate or suspend this Agreement as soon as practicable. Any suspension or termination pursuant to this Section will be effective upon Data User's/School District's receipt of notice.

7.11 Headings. Section and other headings contained in this Agreement are for reference purposes only and are not intended to describe, interpret, define or limit the scope, extent or intent of this Agreement or any provision hereof.

7.12 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be considered to be one and the same agreement, binding on all Parties hereto, notwithstanding that all Parties are not signatories to the same counterpart. Further, duplicated signatures, signatures transmitted via facsimile, or signatures contained in a Portable Document Format (PDF) document shall be deemed original for all purposes.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed by their duly authorized representatives.

EVANSTON/SKOKIE SCHOOL DISTRICT 65

Devon Horton, Ed.D.
Superintendent

Date: 8-31-21

DATA USER

Charles Kofron, Ph.D.
8140 Kingsbury Boulevard
Clayton, MO 63105
314-518-6714

Date: _____

ILLINOIS DEPARTMENT OF PUBLIC HEALTH

Ngozi Ezike, M.D.
Director

Date: _____

Attachment A
Illinois Department of Public Health
Procedure for Access to Data

In order to effectuate access to data in a secure and confidential manner, the Department will permit Data User special access to a secure office location under the supervision of Department employees. While Data User is on site at the Department, the Department will provide him with access in order to geocode enrollment data limited to School District. The Department will provide only the minimum necessary data from the birth records for Data User to perform the geocoding.

The Process will occur in the following manner:

1. Data User will use his personal computer and software;
2. Data User will perform the geocoding at a Department office;
3. Data User will not be connected to another computer or the Internet with or without a hardwire connection;
4. Data User will arrive with a polygon and line files that will be used to accomplish the geocoding;
5. Data User will convert the Department's Excel file of birth data to a geocodable format;
6. Data User will geocode the data for the elementary school service area of the School District;
7. Data User will determine the cause of the exceptions (data that did not geocode properly); and will remove those records that are outside the service area of the School District;
8. Data User will geocode the remaining exceptions on an individual basis;
9. Data User will generate the counts by month for each elementary school service area for the requested years of data for the School District;
10. Data User will return the Department's data and delete all GIS files created by geocoding the Excel files and empty his recycle bin on his computer after completing the preceding step;
11. Data User will agree that at all times Data User will consent to monitoring and supervision by Department staff during the geocoding process;
12. Department staff will confirm that Data User is leaving with only counts of the number of monthly births for the School District for each year. Only this aggregate data will be allowed to leave Department premises.

Attachment B
Illinois Department of Public Health
Data Base Element List
Evanston/Skokie School District 65 – Rafael Obafemi, CFOO

The following data elements will be provided for the data request:

1. Date of Birth (month/year only)
2. Address
3. City
4. Zip Code
5. Latitude and Longitude
6. Race
7. Ethnicity
8. Sex

The data will be provided for the following zip code(s): 60091, 60202, 60203, 60645, 60076, 60626, and 60201

Attachment C

Acknowledgment: Request for Illinois Vital Records Data

In order for the Illinois Department of Public Health (DPH) to provide data to researchers for the purposes of this study, DPH requires compliance with all provisions of the Illinois Health Finance Reform Act (20 ILCS 2215), the Illinois Health Statistics Act (410 ILCS 520), and all other applicable State and federal laws, rules, and regulations.

DPH recognizes that each request must be carefully considered to ensure the proper balance between appropriately protecting data and utilizing data to assist with, and improve, health care operations. This Acknowledgment describes the privacy and confidentiality protections you must put in place, the data security measures you must comply with, and formalizes your responsibilities with regard to your use of Illinois vital records data. Nothing in this Acknowledgment alters Data User's obligations under the Data Use Memorandum of Understanding.

For the purpose of this Attachment B only, the term Data User refers to the individual signing this acknowledgment. I, **Charles Kofron, Ph.D.**, (Data User) acknowledge that DPH is providing vital records data for use pursuant to the following conditions, and that my failure to comply with these conditions may result in DPH revoking my authority to access the vital records data:

1. Data User understands and agrees that any and all Data provided by DPH which may lead to the identification of any patient, physician, other person, or reporting facility is strictly privileged and confidential. Data User agrees to keep all such Data strictly confidential at all times.
2. Data User agrees to report Data in such a way as to maintain the confidentiality of individual records. Data User agrees not to report Data in a way that will enable identification of individual patients or individual facilities; not to publish, disseminate, or otherwise release any information acquired or produced pursuant to this Agreement with cell size less than 10 and/or rate with numerator less than 10, due to the statistically high probability patient identification; and not to publish, disseminate, or otherwise release any raw Data provided by DPH pursuant to this Agreement.
3. Data User agrees to refrain from using any means or methods to interpret, analyze, or manipulate Data in an attempt to identify individual patients using either the Data provided pursuant to this Agreement, or any other available data sets. Data User will not attempt to link, or permit others to attempt to link, the health care records of persons in this data set with personally identifiable records from any other source.
4. Data User shall not publish, disseminate, copy, reproduce, or otherwise release any information acquired or produced pursuant to this Agreement without adhering to the procedures outlined in this Agreement.
5. Data User agrees to notify DPH in writing within one (1) business day following receipt a Freedom of Information Act (FOIA) request, subpoena or court order related to the Data provided pursuant to this Agreement. DPH shall determine whether the information sought contains identifiable or confidential information, and whether it shall be released.
6. Data User agrees that, while conducting approved activities under the terms of this Agreement, if Data User receives a request for the release of an individual's identity or identifying information, the information **will not** be released. Data User agrees to provide DPH with written notification of the request within one (1) business day.
7. Data User will not, under any circumstances, permit the inspection or copying of the Data by any person not (i) directly involved in the Data use; and (ii) previously disclosed to DPH.
8. Data User will not allow third-party access to any portion of the Data without the prior, express written consent of DPH.
9. Data User shall notify DPH in writing within twenty-four (24) hours of the time at which any violation of the terms, including but not limited to a breach in safeguards, security, or confidentiality, of this Agreement becomes known.

Attachment C (continued)

10. Data User agrees that the terms of Data usage are strictly conditioned upon an agreement and acknowledgement that, unless otherwise allowed by the Agreement, the Data shall not be sold, assigned, or transferred in any manner, and that any actual or attempted sale, assignment, or transfer, without the express written permission of DPH's Division of Vital Records (DVR), shall subject Data User to all available remedies given to DPH and DVR under State and federal laws, rules, and regulations. Data User agrees that, unless the agreed upon purpose of this Agreement is the resale of data, Data User is prohibited from releasing, redistributing, or reselling DPH's original, patient-level data in any form, including linked data sets.
11. Data User agrees that, unless the agreed upon purpose of this Agreement is the resale of data, Data User may not resell, redistribute, or make multiple uses of any output based on the Data including, analyses, studies, risk-adjusted or actual subsets or aggregations.
12. Data User shall not provide the Data to a subcontractor without DVR's express written permission. Any contractors or subcontractors given access to the Data to carry out manipulation and/or analyses on behalf of the School District shall signify their understanding of the need to maintain the confidentiality of such Data by signing a data use agreement with the Data User or Data User's School District. Data User shall provide DPH with a copy of the current language contained in such data use agreements.
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14. Data User agrees to ensure that, if Data are linked to other data sets and if a contractor or subcontractor performs the linking, the original Data will be returned to Data User or destroyed following the linking of these Data.
15. Data User agrees that Data User and any other individuals acting under the supervision of the Data User for the purposes of using the analyses, studies, or aggregations based on the Data for marketing analysis, sales activities, or other business purposes shall use reasonable and appropriate safeguards and security measures to prevent the use or disclosure of the information for any purposes other than those permitted by this Agreement.
16. Data User, and anyone under Data User's supervision, shall use appropriate safeguards and security measures to prevent the use or disclosure of the Data for any purpose(s) other than those expressly permitted by this Agreement. Data User agrees that anyone acting under Data User's supervision shall have access to Data only at the level required to accomplish the work.
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18. Data User agrees to store all electronic notes and Data on password protected computers at the School District, and not to remove Data or notes from School District property.

I have read the foregoing requirements and agree to comply with them. I acknowledge that my failure to comply with these requirements may subject me to all available remedies given to DPH under State and federal laws, rules, and regulations. I also acknowledge that all confidentiality and record retention obligations herein shall survive the termination of the underlying Agreement.

Charles Kofron, Ph.D. **Date**

Attachment D

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
VITAL RECORDS DATA
CERTIFICATE OF DESTRUCTION OF DATA

I, **Charles Kofron, Ph.D.**, (Data User) hereby certify that in relation to my request for vital records data, and pursuant to the requirements of the Data Use Memorandum of Understanding (Agreement) that provides the terms under which I received the vital records data, I am informing DPH that all data and references to such data provided by DPH and held in any format, including electronic and/or paper records, was destroyed and rendered irrecoverable, except as allowed by Section 4.5.5 of the Agreement.

_____ _____
Charles Kofron, Ph.D. Date

IDPH VR Data Request Name: Evanston/Skokie School District 65 – Rafael Obafemi
IDPH VR MOU NUMBER: 21S002

Attachment C
Acknowledgment: Request for Illinois Vital Records Data

In order for the Illinois Department of Public Health (DPH) to provide data to researchers for the purposes of this study, DPH requires compliance with all provisions of the Illinois Health Finance Reform Act (20 ILCS 2215), the Illinois Health Statistics Act (410 ILCS 520), and all other applicable State and federal laws, rules, and regulations.

DPH recognizes that each request must be carefully considered to ensure the proper balance between appropriately protecting data and utilizing data to assist with, and improve, health care operations. This Acknowledgment describes the privacy and confidentiality protections you must put in place, the data security measures you must comply with, and formalizes your responsibilities with regard to your use of Illinois vital records data. Nothing in this Acknowledgment alters Data User's obligations under the Data Use Memorandum of Understanding.

For the purpose of this Attachment B only, the term Data User refers to the individual signing this acknowledgment. I, **Lou Gatta** (Data User) acknowledge that DPH is providing vital records data for use pursuant to the following conditions, and that my failure to comply with these conditions may result in DPH revoking my authority to access the vital records data:

1. Data User understands and agrees that any and all Data provided by DPH which may lead to the identification of any patient, physician, other person, or reporting facility is strictly privileged and confidential. Data User agrees to keep all such Data strictly confidential at all times.
2. Data User agrees to report Data in such a way as to maintain the confidentiality of individual records. Data User agrees not to report Data in a way that will enable identification of individual patients or individual facilities; not to publish, disseminate, or otherwise release any information acquired or produced pursuant to this Agreement with cell size less than 10 and/or rate with numerator less than 10, due to the statistically high probability patient identification; and not to publish, disseminate, or otherwise release any raw Data provided by DPH pursuant to this Agreement.
3. Data User agrees to refrain from using any means or methods to interpret, analyze, or manipulate Data in an attempt to identify individual patients using either the Data provided pursuant to this Agreement, or any other available data sets. Data User will not attempt to link, or permit others to attempt to link, the health care records of persons in this data set with personally identifiable records from any other source.
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Attachment C (continued)

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Lou Gatta **Date** 9/1/2021

Attachment C
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For the purpose of this Attachment B only, the term Data User refers to the individual signing this acknowledgment. I, **Sarita Smith** (Data User) acknowledge that DPH is providing vital records data for use pursuant to the following conditions, and that my failure to comply with these conditions may result in DPH revoking my authority to access the vital records data:

1. Data User understands and agrees that any and all Data provided by DPH which may lead to the identification of any patient, physician, other person, or reporting facility is strictly privileged and confidential. Data User agrees to keep all such Data strictly confidential at all times.
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Attachment C (continued)

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S. Smith

Sarita Smith

9-1-21

Date

Esri Estimates and Projections

esri 2021/2026 Esri Updated Demographics



2021/2026 Esri Updated Demographics

Esri Methodology Statement, June 2021

By Esri Data Development

Data vintage and variables

Esri presents the 2021/2026 demographic forecasts. Esri Updated Demographics data represents point estimates representing July 1 of the current and forecast years. The following table summarizes the updated demographic variables. Also included are select averages, medians, aggregates, and per capita values.

	Updated Demographics	2021	2026
Totals	Total Population	✓	✓
	Daytime Population	✓	
	Time Series	✓	
	Households	✓	✓
	Household Population	✓	✓
	Family Population	✓	✓
	Family Households	✓	✓
	Group Quarters Population	✓	✓
	Housing Units	✓	✓
	Owner-Occupied Housing Units	✓	✓
	Renter-Occupied Housing Units	✓	✓
	Vacant Housing Units	✓	✓
Population Characteristics	Population by Five-Year Age and Sex	✓	✓
	Population by Single-Year Age and Sex	✓	✓
	Population by Age, Sex, and Race	✓	✓
	Population by Age, Sex, and Hispanic Origin	✓	✓
	Employed & Unemployed Population 16+	✓	
	Employed & Unemployed Population 16+ by Age Group	✓	
	Employed Population 16+ by Industry	✓	
	Employed Population 16+ by Occupation	✓	
	Population 25+ by Educational Attainment	✓	
	Population 15+ by Marital Status	✓	
	Population by Generation	✓	✓
Housing Characteristics	Households by Income	✓	✓
	Households by Income and Age of Householder	✓	✓
	Households by Disposable Income	✓	
	Households by Disposable Income and Age of Householder	✓	
	Households by Net Worth	✓	
	Households by Net Worth and Age of Householder	✓	
	Owner-Occupied Housing Units by Home Value	✓	✓
Indexes and Measures	Diversity Index	✓	✓
	Housing Affordability Index	✓	
	Percent of Income for Mortgage	✓	
	Wealth Index	✓	
	Age Dependency Ratio	✓	✓
	Child Dependency Ratio	✓	✓
	Senior Dependency Ratio	✓	✓
	Economic Dependency Ratio	✓	
	Child Economic Dependency Ratio	✓	
	Working-Age Economic Dependency Ratio	✓	
	Senior Economic Dependency Ratio	✓	

Summary totals

Forecasting change in the size and distribution of the household population begins at the county level with several sources of data. Esri incorporates a full-time series of intercensal and vintage-based county estimates from the U.S. Census Bureau. Because testing has revealed improvement in accuracy by using a variety of sources to track county population trends, Esri also employs a time series of county-to-county migration data from the Internal Revenue Service, building permits and housing starts, plus residential postal delivery counts. Finally, local data sources that tested well against Census 2010 are reviewed. The end result balances the measures of growth or decline from a variety of data series.

Measuring change in population or households at the county level is facilitated by the array of data reported for counties. Unfortunately, there is no current data reported specifically for block groups. Past trends can be calculated from previous census counts; the American Community Survey (ACS) provides five-year averages. However, these sources are not recent. To measure current population change by block group, Esri models the change in households from multiple sources: Experian; the U.S. Postal Service (USPS); Zonda (formerly Metrostudy), a Hanley Wood company; and RealPage (formerly Axiometrics), in addition to several ancillary sources.

The U.S. Postal Service publishes monthly counts of residential deliveries for every U.S. postal carrier route. This represents the most comprehensive and current information available for small, subcounty geographic areas. Carrier routes are a fluid geographic construct that is redefined continuously to incorporate real changes in the housing inventory and occupancy plus administrative changes in staffing and budgets of local post offices.

Converting delivery statistics from postal carrier routes to census block groups is a complex challenge. Carrier routes are defined to deliver the mail, while block groups are constructed to collect and report census data. Comparing two areas that are defined for

wholly different purposes provides one significant conversion issue. Carrier routes commonly overlap multiple block groups. In many cases, a carrier route encompasses disjointed areas that can be distant from each other, but block groups are rarely divided into multiple polygons. These overlaps require an effective method of allocating the postal delivery counts across multiple block groups.

Esri has developed a technique to link carrier routes to the correct block groups—using the actual locations of mail deliveries. Its proprietary Address Based Allocation (ABA) methodology was developed in 2005 to solve the complex challenge of converting delivery counts from carrier routes to block groups. This allocation method assigns carrier routes using household addresses that are geocoded at the block level to serve as the foundation for the conversion. The approach is unbounded by geographic borders or arbitrary assumptions about the distribution of households or postal deliveries. ABA results have been tested extensively against Census 2010 counts, including an independent evaluation that involved data from four other vendors. This test confirmed the accuracy of Esri's ABA allocation method.[1]

For over a decade, Esri has licensed data from Zonda to track new residential construction in the top U.S. housing markets. This database identifies the location and characteristics of individual construction projects, including total units planned, under construction, and closed by type of housing. This data is especially critical in tracking growth in previously unpopulated areas. Beginning with the 2016 updates, Esri has utilized an additional database from Zonda that more than doubles Esri's geographic coverage and the number of units planned and completed. The addition of this database gives the household and housing unit update a finer level of granularity and insight into smaller housing markets across the nation.

RealPage housing data is incorporated to capture the growing multifamily rental market. Like Zonda, which covers new residential-owned dwellings such as single-family homes and condominiums, RealPage collects and maintains data on planned, new, and existing rental properties of multifamily and student apartments, nationwide. This data source provides a wealth of property-level characteristics, such as the total number of units or beds, building type, number of stories, and occupancy, as well as asking rent. RealPage's inventory of rental properties expanded due to a corporate merger. This contributed to a near 30 percent increase in rental properties incorporated in Esri's models this year.

The best techniques are derived from a combination of models and data sources. Discrepant trends are checked extensively against independent sources and premium imagery data from Esri's ArcGIS Living Atlas of the World. Finally, totals for block groups are controlled to the county totals. Despite the appeal of microforecasting, there is simply more information available to track population change by county than by household. Ignoring the advantage of county-level data would be throwing away information.

5-year projections

Projections are necessarily derived from current events and past trends. The past and present are known; the future must be extrapolated from this knowledge base. Even though projections represent the unknown, they are not uninformed. Guidelines for the development of projections also inform the use of those projections.

- The recent past provides a reasonable clue to the course of future events, especially if that information is tempered with a historical perspective

- A stable rate of growth is easier to anticipate than rapid growth or decline.
- The damaging effects of natural disasters cannot be anticipated. Esri makes every effort to assess the impact of sudden, catastrophic events like strong storms, flooding, or wildfires.
- The risk inherent in forecasting is inversely related to the size of an area: the smaller the area, the greater the risk.
- The risk increases with the length of the projection interval. Any deviation of the projected trends from actual events is amplified over time.

Esri revises its forecasts annually to draw on the latest data. Future construction projects, as well as developments currently under construction, give Esri a unique view of the future landscape. Projections can be enhanced with personal knowledge of an area to provide the qualitative, anecdotal detail that is not captured in a national database. It is incumbent on the data user and the producers to incorporate as much information as possible when assessing local trends, especially for areas that are subject to "boom-bust" cycles or natural disasters.

Population and household characteristics

Esri incorporates a variety of data sources to update small areas like block groups, beginning with the latest base, and then adding a mixture of administrative records and private sources to capture change to the base. Shifting the base every year to the latest release of ACS data incorporates real change with sampling error. To establish a more stable base, Esri has built estimate bases for key variables like income, labor force, and home value. The estimate bases combine the best data from ACS with other sources and enable better measures of change than are possible with ACS data alone. Periodic changes to the estimate bases are necessary to collect current change. Base changes impact comparability of the

annual data but provide more reliable estimates. Demographic updates must incorporate both traditional and new data sources to remain current.

The population by age and sex is projected via a cohort survival model that separately calculates the components of population change by age and sex. Applying survival rates specific to the cohort carries a 2015 population base forward. Changes in the population by age and sex diverge at the household level. For example, an area that is losing population can age more rapidly with the loss of population in prime migrant ages, 20–34 years—unless there is a college nearby. Neighborhoods near colleges sustain high turnover from student populations but retain their youthful age distributions.

To capture these variations, Esri's model first separates the group quarters population from the household population and, second, keys the calculations to the size and characteristics of the population. This stratification identifies several different patterns of change by age and sex that can be applied in a cohort survival model.

The changing profile of the U.S. population requires measuring population change by race and Hispanic origin. The American identity is shaped by diversity. Tracking the changing patterns of race and ethnicity provides a current portrait of our society. Historical trends in race and ethnicity combined with the most current data sources by race and Hispanic origin, including population estimates by county and state from the Census Bureau and survey data from the ACS, are analyzed to establish county population by race and Hispanic origin. Forecasts by block group combine local changes in the distributions by race and projected change for counties. The last step controls block group distributions to county totals by race and Hispanic origin.

The changing face of our nation is evident in Esri's Diversity Index, which summarizes racial and ethnic diversity in an area.

Esri's definition of diversity is two-dimensional and combines racial diversity with ethnic diversity. This measure shows the likelihood that two persons, chosen at random from the same area, belong to different races or ethnic groups. In theory, the index ranges from 0 (no diversity) to 100 (complete diversity). An area's diversity index tends toward 100 when the population is more evenly divided across race and ethnic groups. If an area's entire population is divided evenly into two race groups and one ethnic group, the diversity index equals 50. As more race groups are evenly represented in the population, the diversity index increases. Race and Hispanic origin data is reported by the Census Bureau and other agencies as grouped summary data; therefore, in practice, the diversity index will not reach the maximum value of 100. Nationally, Esri's Diversity Index has risen from 60.6 in 2010 to 65.4 in 2021, with a forecast to 67.5 in five years.

Diversity also describes the composition of American households. Esri uses the Census Bureau's definition of families and family households. Families include a householder and one or more people living in the same household who are related to the householder by birth, marriage, or adoption; therefore, family households are equal to the number of families. Family households can also include unrelated nonfamily members. Family households are modeled from Census 2010, Current Population Survey (CPS), and ACS data. Average family size has increased from 3.14 in 2010 to 3.15 in 2021.

The attendant change in average household size is nominal from 2000 to 2010, 2.59 to 2.58, respectively, and is back to 2.58 for 2021. The gradual change in household size has made it uniquely suitable to forecasting the change in household population from the change in households. Average household size is traditionally one of the most stable and predictable components of the forecasts. Household forecasts are predicated on local patterns of change, which are controlled to the more constant trends for states and counties.

Few block groups represent a cross-section of U.S. households. For example, in areas that gain population from immigration, the trend in average household size is an increase. To distinguish local variation, Esri's model is keyed to the characteristics of households at the block group level. This stratification identifies several different patterns of change by household type that are applied to forecast trends in the characteristics of households – both family composition and tenure. Local change is emphasized in the 2021/2026 forecasts of households and families for counties and block groups. National and state trends are monitored with sources such as the CPS and ACS from the Census Bureau and then applied as controls.

A mixed model approach is used to forecast 2021 educational attainment and marital status, combining higher-level and timelier single-year ACS data with five-year lower-level ACS data. Adjustments are factored for changes to the base population's characteristics, including changes to group quarters. Forecasted distributions are applied to Esri's 2021 population aged 15 years and older to update marital status. Similarly, educational attainment is updated for the population aged 25 years and older.

Housing data

Esri's housing updates include total housing units, occupancy, tenure, and home value. Total housing unit updates are created from recorded changes in the housing inventory and estimated changes in occupancy rates since April 2010, applied to Census 2010 base data. Recorded change in the housing inventory is culled from several data sources, including multiple construction data inputs from Zonda and RealPage, data for new manufactured homes placed by state from the Census Bureau, and building permits for permit-issuing places and counties. As of 2010, only half of the counties had complete coverage with building permits. Numerous independent sources are leveraged to obtain detailed

information on housing development data where no building permits exist. Independent estimates of change in occupancy are calculated from USPS residential lists, the ACS, and various state and local data sources. Additionally, data from the CPS and the Housing Vacancy Survey (HVS) from the Census Bureau is used to model trends in occupancy.

Data for tenure represents owner- and renter-occupied housing units. Together, the two components sum to total households or total occupied housing units. A time series model based on data from the HVS, combined with changes in the CPS, the ACS, and intercensal data, guides tenure forecasts. With a blend of top-down and bottom-up techniques, the forecasts take advantage of the latest information from survey data at higher levels of geography while employing local characteristics at the lower levels. The small-area models leverage more geographically granular trends from ACS as well as integrate the Zonda and RealPage housing data to update an area's tenure profile. This year, the ACS tenure time series data used in the models was smoothed to further reduce survey noise by tempering outlying data points. Data from lower levels of geography is controlled to higher levels to produce the tenure updates. Changes in owner versus renter occupancy are forecasted independently and then controlled to total households.

Esri reports home value for all owner-occupied housing units. Beginning with 2018, home value estimates include additional intervals to capture homes valued at $1 million to $1.5 million, $1.5 million to $2 million, and $2 million or more. A total of 13 home value intervals are reported.[2] Summary measures of home value include medians and averages that are calculated from the distributions of home value. Medians represent the middle of the distribution or the point that splits the distribution equally.[3] Medians are calculated using linear interpolation unless the median falls in the highest (>$2,000,000) interval. Following the Census Bureau's convention, this median is reported as $2,000,001 because housing value in the upper interval is top-coded to

$2,000,000. Due to limited data availability for these high-valued homes, Esri top-codes average home value to $2,250,000.

Esri tracks the change in home value using several different sources, including annual estimates from the ACS, the Home Price Expectations Survey from Pulsenomics, and the House Price Index (HPI) from the Federal Housing Finance Agency (FHFA). The Home Price Expectations Survey relies on a survey of more than 100 industry experts to forecast growth in the housing market. This forward-looking source is a key input to Esri's forecasts. The HPI is designed to monitor changes in average home prices based on repeat sales or refinancing of the same properties. The index is derived from mortgage loans purchased or securitized by Fannie Mae or Freddie Mac.

Esri's 2021 home value estimates incorporate the extraordinary shift in the housing market following the initial shock of the COVID-19 pandemic. A year ago, with large swaths of the economy at a standstill, households faced unemployment, pay cuts, and uncertainty. Accordingly, Esri assumed a very conservative 0.4 percent growth in median home value from 2019 to 2020. Fueled by low mortgage rates and positive consumer sentiment as the economy recovers from the COVID-19 shutdown, the real estate market is experiencing unprecedented demand coupled with limited supply. Housing prices have soared in the last year. Esri forecasts a 12.3 percent appreciation in median home value between 2020 and 2021 and projects 3.5 percent annual change between 2021 and 2026.

Esri's model emphasizes the importance of a good, stable forecast base. Employing both the ACS's historical five-year estimates and household survey data, Esri's 2021 estimates begin with an updated forecast base that leverages the growing stability of ACS data. Once every few years and particularly during real estate market cycles, it is prudent to reset the base to capture the current housing landscape. Though this does preclude comparisons to past updates, especially for small areas, the base

provides a strong foundation to measure change. Local estimates of home value change incorporate supply-demand characteristics, the socioeconomic traits of householders in the area, and trends assessed for larger markets.

Esri leverages current housing and income data to provide a snapshot of affordability. Esri's approach to measuring housing affordability uses an index to quantify the ability of a typical resident to purchase an existing home in an area.[4] Employing the national average contract mortgage rate from the Federal Housing Finance Agency, an interest rate of 3.3 percent is estimated for Esri's 2021 Housing Affordability Index model. A 30-year mortgage is assumed, with a down payment of 20 percent of the home price. Regional property tax rates are determined from the latest round of the ACS, and Esri's model follows the Federal Housing Administration's guidelines for debt service ratios. Additionally, the 2021 Percent of Income for Mortgage (POIFM) quantifies the percentage of median household income dedicated to mortgage payments on a home priced at the median value.

Labor force data

Esri forecasts the 2021 employed and unemployed population aged 16 and older who are either working or actively looking for work, also known as the civilian labor force. After a large GDP drop in Q2 2020 and then a rebound in Q3 2020, the economy has shown continued growth, with GDP increasing at an annual rate of 6.4 percent in Q1 2021. The corresponding job growth raised the total workforce to more than 157 million people. While prepandemic levels of unemployment and labor force participation have not yet been reached, the impact of factors such as the rollout of vaccines, updated public health guidelines, and businesses reopening has helped boost the labor force outlook considerably compared to the previous year.

The civilian labor force does not include active-duty military, institutionalized individuals, and those not actively looking for work.[5] The employed population 16 and older is further broken down by industry and occupation. Esri also provides additional labor market detail with the release of employment and unemployment estimates by four age groups: 16 to 24, 25 to 54, 55 to 64, and 65 and older. These variables are modeled using one- and five-year ACS employment and work status tables, CPS tables, and Local Area Unemployment Statistics (LAUS) trends.

Estimates of the civilian labor force integrate recent change in the supply and demand for labor from the LAUS, Occupational Employment Statistics (OES), and Current Employment Statistics (CES) programs of the Bureau of Labor Statistics (BLS), as well as the ACS and CPS from the U.S. Census Bureau. Federal statistical surveys are the principal sources for labor force trends. The 2021 employment and unemployment estimates are developed from a block group base constructed from one- and five-year ACS labor force tables and current sources. Esri's updated employment by industry and occupation captures temporal change from multiple federal statistical sources: the ACS and CPS from the Census Bureau and the CES and OES programs from the BLS. In 2019, the ACS-derived base was updated to take advantage of the latest survey data to generate more current labor force profiles for small areas. Consequently, comparisons to Esri's labor force estimates prior to 2019 are not advised.

Household income

Esri's 2021 household income estimates are reported for households as of July 1, 2021, and represent household income for the previous calendar year 2020. Taking into account that the United States officially hit the peak of the business cycle in February 2020, historical recessionary impact on household income, compiled from trusted public data sources, is used to

model real income decline. Forecast year 2026 estimates are reported for forecasted households as of July 1, 2026, and represent household income for 2025. The five-year household income estimates assume historical postrecession income recovery rates.

Household income distributions are estimated for areas with 10 or more households only. Esri implements the definition of money income used by the Census Bureau. For each person 15 years of age or older, money income received in the preceding calendar year is summed from earnings, unemployment compensation, Social Security, Supplemental Security Income, public assistance, veterans' payments, survivor benefits, disability benefits, pension or retirement income, interest, dividends, rent, royalties, estates and trusts, educational assistance, alimony, child support, financial assistance from outside the household, and other income.

There are substantial differences between the Bureau of Economic Analysis (BEA) and the Census Bureau in estimates of per capita income. Care should be taken when comparing money estimates with other data sources since many income estimates are based solely on BEA data. Different definitions, methods of data collection, reference area, and population coverage generate different counts and measures of income.[6] BEA calculates personal income as part of its mission to produce national income accounting estimates such as the gross national product. The Census Bureau collects money income statistics to satisfy its objective to enumerate and describe the population of the United States.

Data for consumer income collected by the Census Bureau covers money income received (exclusive of certain money receipts such as capital gains) before payments for personal income taxes, Social Security, union dues, Medicare deductions, and so on.

Early in the decade, extensive testing concluded that collapsing the ACS's 16 household income intervals into fewer intervals significantly improves statistical reliability. Esri's model estimates household income by nine income intervals.[7]

Estimates for household income are in nominal dollars. In other words, the growth of income attributed to inflation is included in the estimate. Esri models nominal household income directly. With inflation estimates only available at the national and regional levels and selected major cities, and a lack of local area inflation data, estimating local real household income is imprudent. Esri tracks national inflation rates to guide both current-year and forecast-year estimates. Expected national inflation is based on trends from 5- and 10-year break-even rates. These rates are computed from the spread between nominal and inflation-adjusted Treasury securities as of the end of 2020. Break-even rates represent an estimate of the average expected inflation premium that market participants are pricing into these securities over the two time horizons. The annual inflation factor is forecasted at 1.2 percent.

To estimate income for households, Esri evaluates an extensive list of sources for household income trends that include both federal and proprietary sources. The review of national surveys includes the ACS (both one-year and five-year estimates), the BEA's local personal income series, the CPS, and the BLS's Consumer Price Index.

Esri's 2021 income estimates build on a newly updated forecast base. The forecast base capitalizes on historical ACS five-year estimates and household surveys. In any sample-based data source, both sampling and nonsampling errors contribute to the instability of time series data for small areas. Esri has designed parameters to quantify and normalize instability in its sources, producing a robust base on which to measure income change. To leverage gains in stability shown by ACS and capture recent acceleration in household income, Esri has shortened the forecast

base period. This does, however, mark a break in the time series at the 2020 time point for household income and related variables: age by income, disposable income, and net worth.

After forecasting the state income distributions, household income is estimated for block groups. Esri's income forecasts are uniquely designed to distinguish local variation, changes in income inequality, and urbanicity as differentiators of income growth. The model correlates the characteristics of households at the block group level with changes in income. This stratification identifies several different patterns of change by household type that are applied to forecast trends in income. Modeling links the current income change to all households with similar socioeconomic characteristics. Areas with small household bases or missing base data, where the model is unable to capture the local variation, are forecast with another level of modeling to capture the change in income by strata (a group of areas classified by their sociodemographic characteristics). Separate forecasts of the change in income by strata are aggregated to compose the income distributions.

Summary measures of household income include medians and averages that are calculated from the distributions of income. A median represents the middle of the income distribution or the point that splits the distribution equally. A median is calculated from the income intervals of the distribution using Pareto interpolation, unless the median falls in the lowest (<$15,000) or highest (>$200,000) interval. For the lowest interval, linear interpolation is used. When the median falls in the upper interval, it is reported as $200,001 because households in the upper interval are top-coded to $200,000.

Averages are computed from estimates of aggregate income. Esri's process employs unique sociodemographic methods to model distributions and aggregates simultaneously. This top-down, bottom-up approach not only provides well-grounded small-area

estimates but also places emphasis on the relationship between medians and averages.

Household income by age of householder

Household income is reported for seven age of householder groups. The income distribution for these age groups is based on the same nine intervals as household income. Methods for median and average calculations follow those used for household income.

Household income reported by age of householder is updated to be consistent with the 2021 distributions of household income and age of householder. To update the age distribution of householders, the ratio of householders by age to the population by age in 2010 is updated to 2021/2026, taking into account the change in group quarters population applied to the current age distributions. After the targets are set, the base distributions of household income by age of householder at the block group level are fitted to current distributions of households by income and age of householder. Independent estimates of age by income are key inputs to the model.

Disposable income

Similar to household income, disposable income is estimated in nominal dollars for nine intervals. Disposable income is also reported for the seven age of householder groups. Methods for median and average calculations follow those used for household income.

Disposable income represents money income after taxes – an estimate of a household's purchasing power. The proportion of household income left after taxes is estimated from special studies

conducted by the Census Bureau to simulate household taxes. Esri's 2021 disposable income incorporates data from the 2019 Annual Social and Economic Supplement of the Current Population Survey (ASEC).

Four types of taxes are deducted: federal individual income taxes, state individual income taxes, FICA (Social Security) and federal retirement payroll taxes, and property taxes for owner-occupied housing. Internal Revenue Service tax rates are used as guidelines for model testing. Esri then applies the proportions of after-tax earnings to income intervals that are cross-tabulated by age of householder for each state. State-specific proportions account for the variation in taxes by state. The proportions, or multipliers, are then applied to the age by income forecasts for block groups and counties to calculate disposable income.

Net worth

The 2021 update of net worth accommodates the release of the Survey of Consumer Finances (SCF), as well as the large swings in the stock market and the housing market during an unprecedented year dominated by the COVID-19 pandemic. Esri's 2020 estimate assumed a decline in household wealth due to the abrupt economic fallout at the onset of the pandemic. At the time of the 2020 update, Wall Street losses had peaked at over 35 percent, with markets exhibiting extreme volatility. The stock market showed remarkable recovery in the latter half of the year, and driven by an exodus of households to more spacious neighborhoods, the demand for real estate exploded. Esri's current median net worth estimate is $143,016 and builds in 8.4 percent annualized growth from the last SCF data point.

Beginning in 2019, Esri's total net worth is reported for 12 intervals to include an upper interval of greater than $2 million. Net worth is also reported for the seven age of householder groups, by 10 net

worth intervals. Summary measures of net worth include medians and averages, which are calculated from the distributions of net worth. Similar to household income methods, a median is calculated from the net worth intervals of the distribution using Pareto interpolation, unless the median falls in the lowest (<$15,000) or highest interval. For the lowest interval, linear interpolation is used. When the median falls in the upper interval, it is reported as $1,000,001 for net worth by age of householder and $2,000,001 for total net worth.

Current income is only one component of a household's financial security. Householders' net worth or accumulated wealth reflects their ability to stay afloat during a financial shock as well as save for future retirement. Net worth is estimated from data on household wealth that is collected from the Surveys of Consumer Finance (SCF) from the Federal Reserve Board from 1992 through 2019. These triennial surveys feature enhanced representation of wealthy households through the comprehensive measurement of net worth components. By definition, net worth equals total household assets less any debts, secured or unsecured. Assets include ownership of homes, rental properties, businesses, individual retirement accounts (IRAs) and Keogh accounts, pension plans, stocks, mutual funds, and motor vehicles. Examples of secured debt include home mortgages and vehicle loans; unsecured debt includes credit cards and other bills or certain bank loans.

Introduced in 2019, Esri's Wealth Index is compiled from a number of indicators of affluence including average household income and average net worth. The concept of wealth is defined by more than above-average household income. Wealth also includes the value of material possessions and resources. Esri captures both income and the accumulation of substantial wealth or the abundance of possessions and resources in its identification of the wealthiest areas in the country. The index represents the wealth of the area relative to the national level. Values exceeding 100 represent above-average wealth.

2021 geography

Current-year estimates and forecasts are prepared initially for counties and block groups. County data is aggregated to Core-Based Statistical Areas (CBSAs), states, or higher levels. Block group data is either aggregated directly or used with a correspondence file to produce data for census tracts, places, county subdivisions, ZIP Codes, congressional districts, and designated market areas (DMAs). For user-defined sites, circles, or polygons, block weights are applied to block group data.

Changes in the geographic areas for which data is tabulated and reported are critical to the analysis of trends. Esri reports data for political and statistical areas that include states, counties, census tracts, block groups, places, county subdivisions, CBSAs, and congressional districts, plus special use areas like ZIP Codes and DMAs. Of course, the provision of small-area data in Esri software enables users to define their own areas of interest too.

Data is reported in 2010 geography for most of the standard political and statistical areas. Statistical areas, such as block groups and census tracts, are defined by the Census Bureau (with help from local officials) to collect and report data for neighborhoods. Historically, these areas change every 10 years with each new census. Political areas, such as counties, cities, or townships, are subject to change by local governments.

Beginning with the 2017 release, Esri incorporated major county changes since 2010:

- The former independent city, Bedford City, Virginia, is now a part of Bedford County, Virginia. Bedford City, Virginia, was dropped from the county inventory.
- Wade Hampton Census Area, Alaska, changed to Kusilvak Census Area, Alaska.

- Shannon County, South Dakota, changed to Oglala Lakota County, South Dakota.

As a result, the county database currently includes 3,142 counties. Underlying block groups, tracts, and county subdivisions reflect these changes.

The 2021/2026 updates reflect the metropolitan and micropolitan statistical areas released by the Office of Management and Budget (OMB) in March 2020. There are 384 metropolitan and 543 micropolitan areas. Congressional districts represent the 116th Congress and TIGER 2019 CD boundaries. The place inventory is also from TIGER 2019 and contains 29,321 areas.

ZIP Codes, which are defined solely by the U.S. Postal Service to expedite mail delivery, can change monthly or whenever the U.S. Postal Service revises delivery routes. ZIP Codes do not represent standard census geographic areas for data reporting. ZIP Code boundaries are not contiguous with census geographic areas or stable over time. Data estimated for ZIP Codes is also subject to change. Residential ZIP Code data is estimated from block group data, using a correspondence created by assigning Census 2010 block points to ZIP Code boundaries from HERE. The vintage of the ZIP Code boundaries is third quarter, 2020; the total number of residential ZIP Codes in this release is 32,109.

The integration of demographic and spatial analysis has not only enabled the development of more accurate block group totals, but it has also provided the opportunity to update block totals. Blocks are the lowest common denominator in the geographic hierarchy and progress to block groups, tracts, counties, and states. Blocks are most useful in the estimation of data for polygons, which can be any area outside the geographic hierarchy, from retail trade areas to user-defined polygons (including circles and drive-time polygons). For most areas, the application provides a good estimate for the polygon. If the relationship between the underlying blocks and the parent block groups has changed

significantly since 2010, the estimate cannot incorporate that change unless both blocks and block groups are updated.

Endnotes

[1] Vendor Accuracy Study

[2] For a table layout view Esri's Updated Demographics Variable List

[3] For more information on medians, refer to Understanding Medians

[4] Esri's Housing Affordability in the US Story Map

[5] Correction (November 2021): The original version of this sentence incorrectly included agricultural workers and federal government employees.

[6] Comparability of Current Population Survey Income Data with other Data

[7] For a table layout view Esri's Updated Demographics Variable List

Data resources

For more information about Esri's Updated Demographics data. visit esri.com/esri_data or call 1-800-447-9778.

Email Esri Demographics Team

Data Methodologies-Esri Demographics | Documentation

Esri provides methodology statements for US Demographics and global data.

https://doc.arcgis.com/en/esri-demographics/reference/methodologies.htm

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About Esri's data development team

Led by chief demographer Kyle R. Cassal, Esri's data development team has more than a 40-year history of excellence in market intelligence. The team's economists, statisticians, demographers, geographers, and analysts produce independent small-area demographic and socioeconomic estimates and forecasts for the United States. The team develops exclusive demographic models and methodologies to create market-proven datasets, many of which are now industry benchmarks, such as Tapestry™ Segmentation, Consumer Spending, Market Potential, and annual Updated Demographics. Esri® Demographics power ArcGIS® through dynamic web maps, data enrichment, reports, and infographics.

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