Knox County Redistricting, 2021

PLANNING STAFF

SEPTEMBER 1, 2021
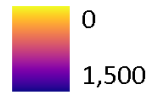
Total Knox County Population: 477,857*

District	2020 Population
1	49,312
2	53,274
3	51,355
4	52,375
5	56,984
6	61,337
7	53,647
8	50,218
9	49,355

Low

High

*Population in correctional facilities removed
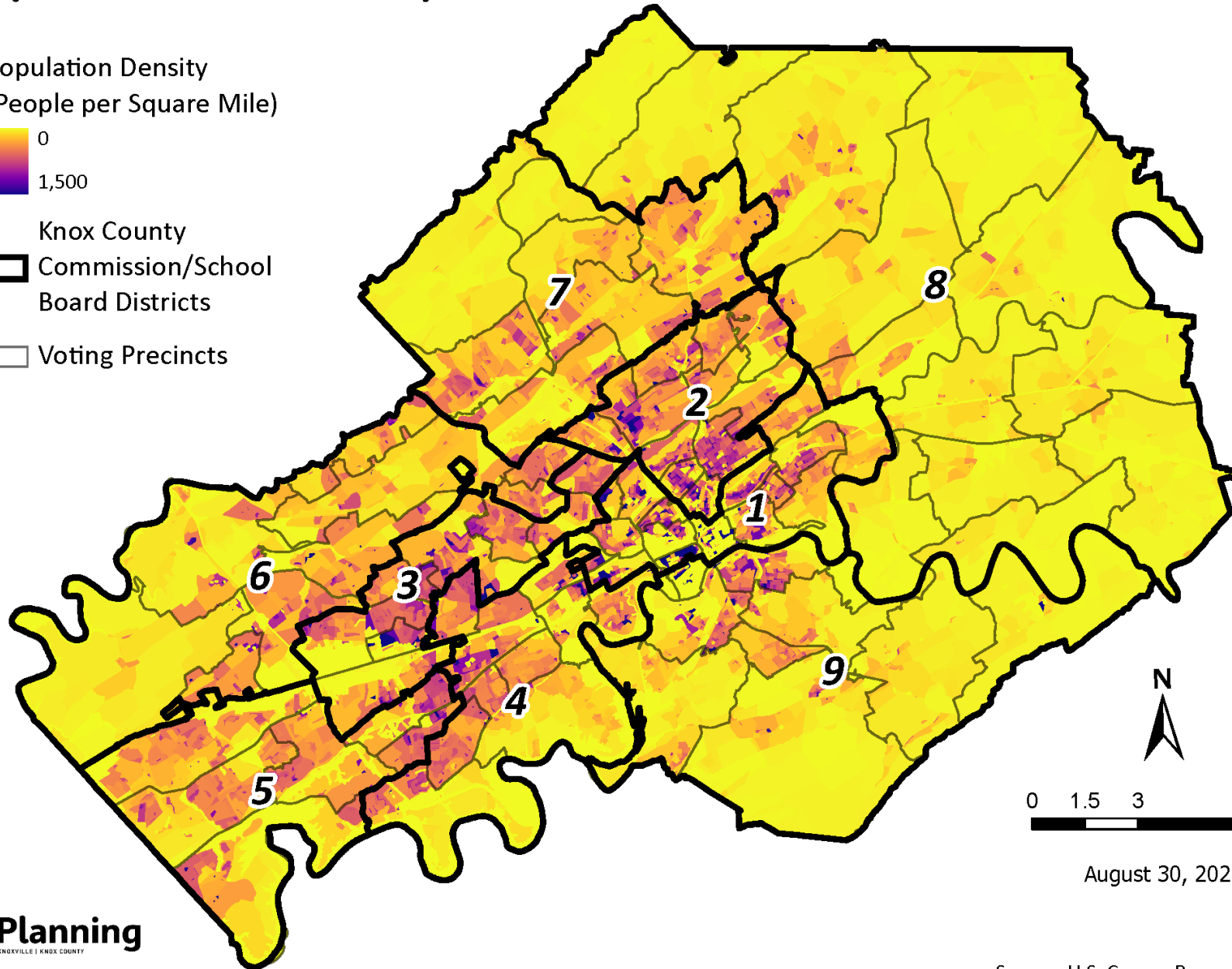
Population Density, 2020

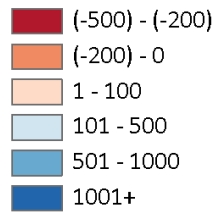Population Density
(People per Square Mile)

0

1,500

Knox County
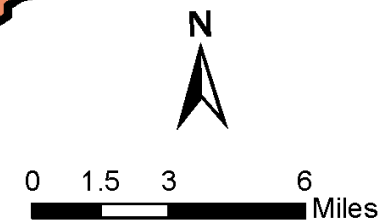Commission/School
Board Districts

Voting Precincts

7

8

2

1

6

3

9

4

5

N

0   1.5   3   6
                    Miles

August 30, 2021

Planning
KNOXVILLE | KNOX COUNTY

Source: U.S. Census Bureau, PL94-171

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Interactive
Map

Population Change, 2010 - 2020

Population Change 2010-2020

- (-500) - (-200)
- (-200) - 0
- 1 - 100
- 101 - 500
- 501 - 1000
- 1001+

Knox County
Commission/School
Board Districts

Voting Precincts

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N

0 1.5 3 6 Miles

August 30, 2021

Source: U.S. Census Bureau, PL94-171
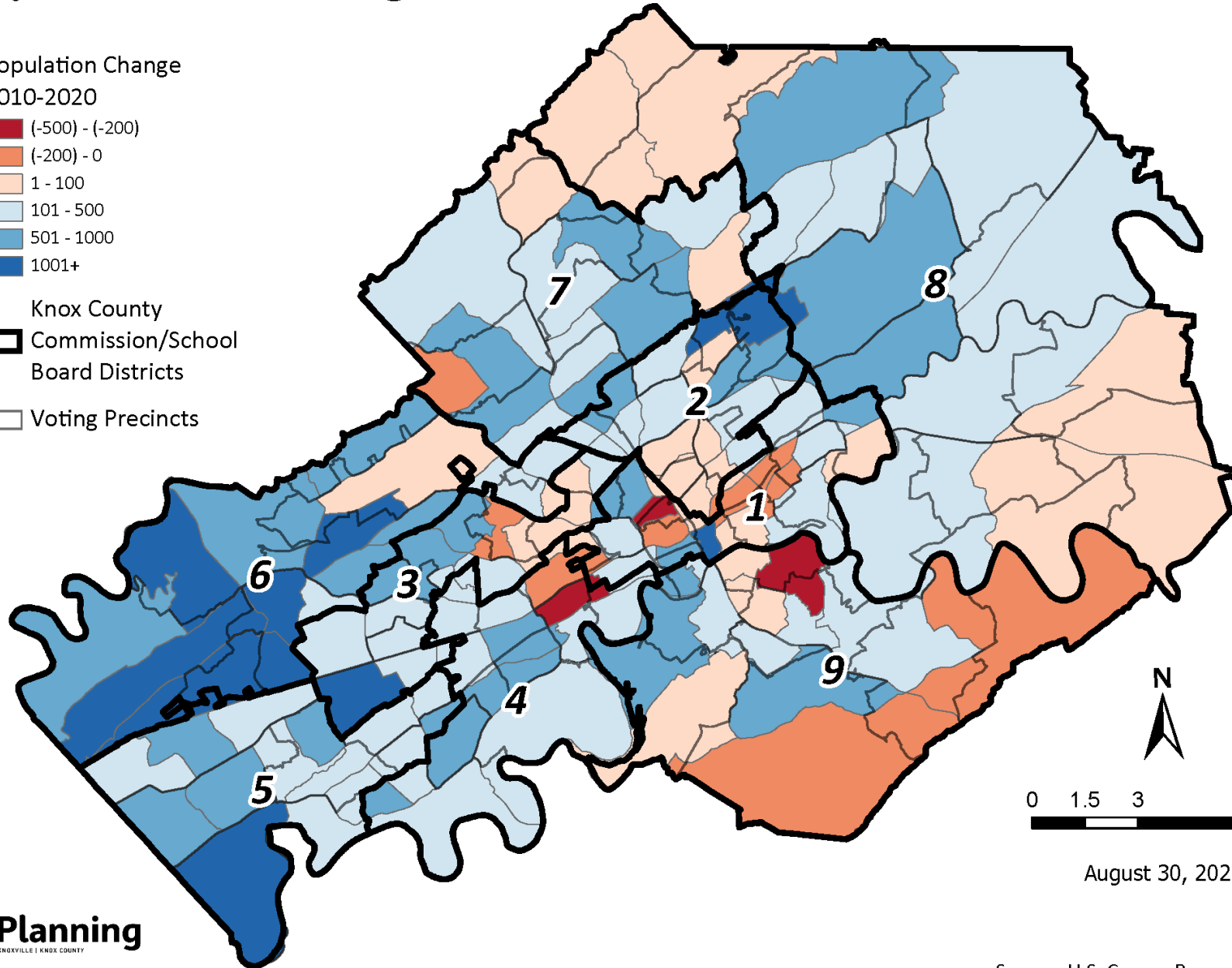
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Black or African American Population, 2020

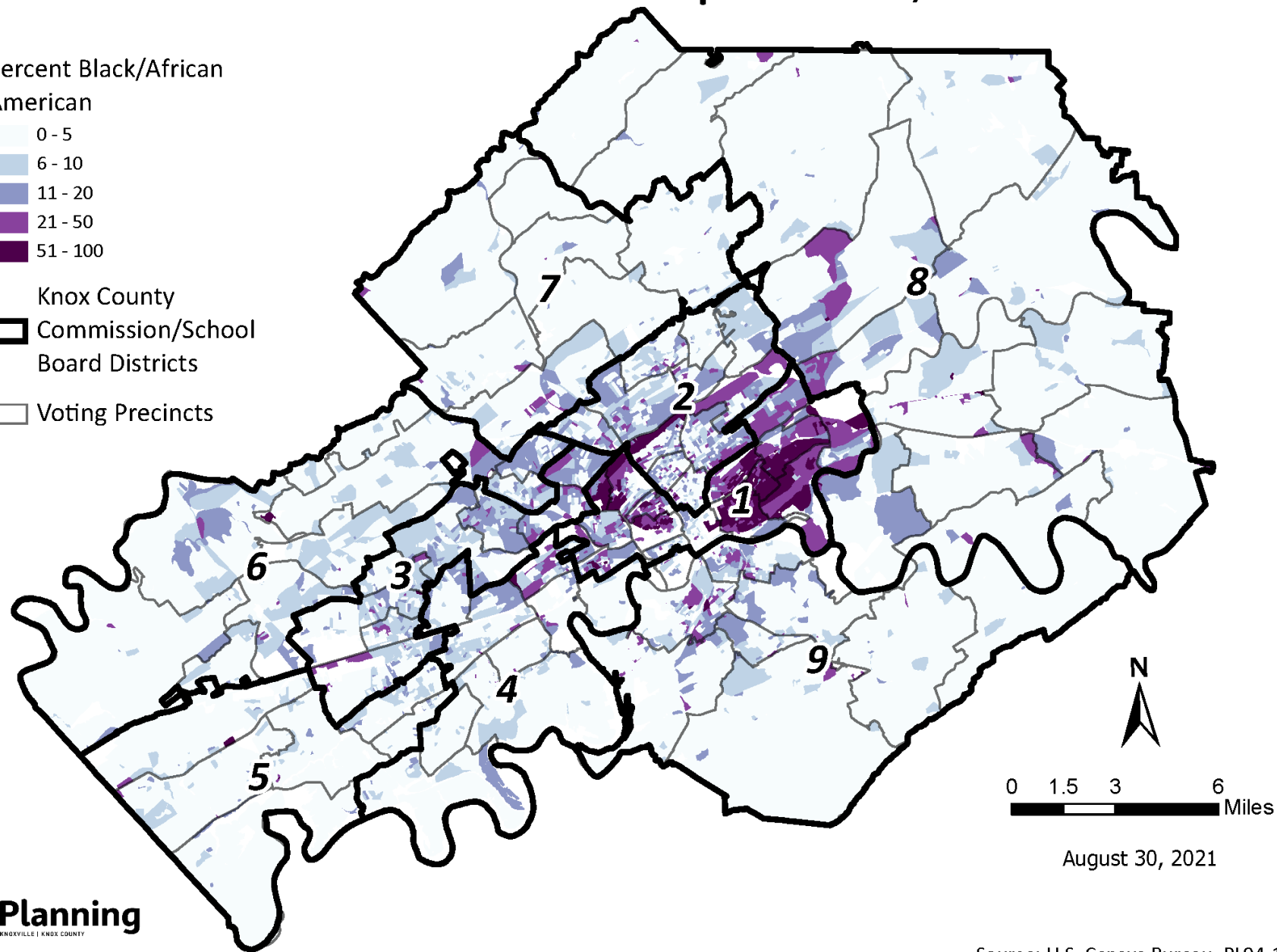## Percent Black/African American

- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 50
- 51 - 100
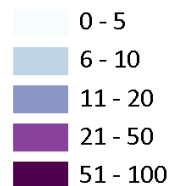
Knox County Commission/School Board Districts

Voting Precincts

Black or African American is largest racial-ethnic group other than white alone
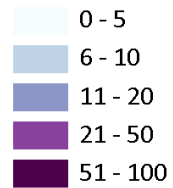
- Modest growth to 40,360, or 8.4% of the population
- Share of population has **declined** from 8.8% of the population in 2010

N

0   1.5   3   6
Miles

August 30, 2021

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Source: U.S. Census Bureau, PL94-171

Black or African American Population, 2020

Percent Black/African American

- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 50
- 51 - 100

Knox County Commission/School Board Districts

Voting Precincts

The next-largest group is the population identifying as two or more races

- Growth from 8,250 (1.9% share) in 2010 to 31,144 (6.5% share of total population) in 2020

N

0   1.5   3   6
Miles

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Source: U.S. Census Bureau, PL94-171

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Asian, Native American, Pacific Islander, and Other Race Population, 2020
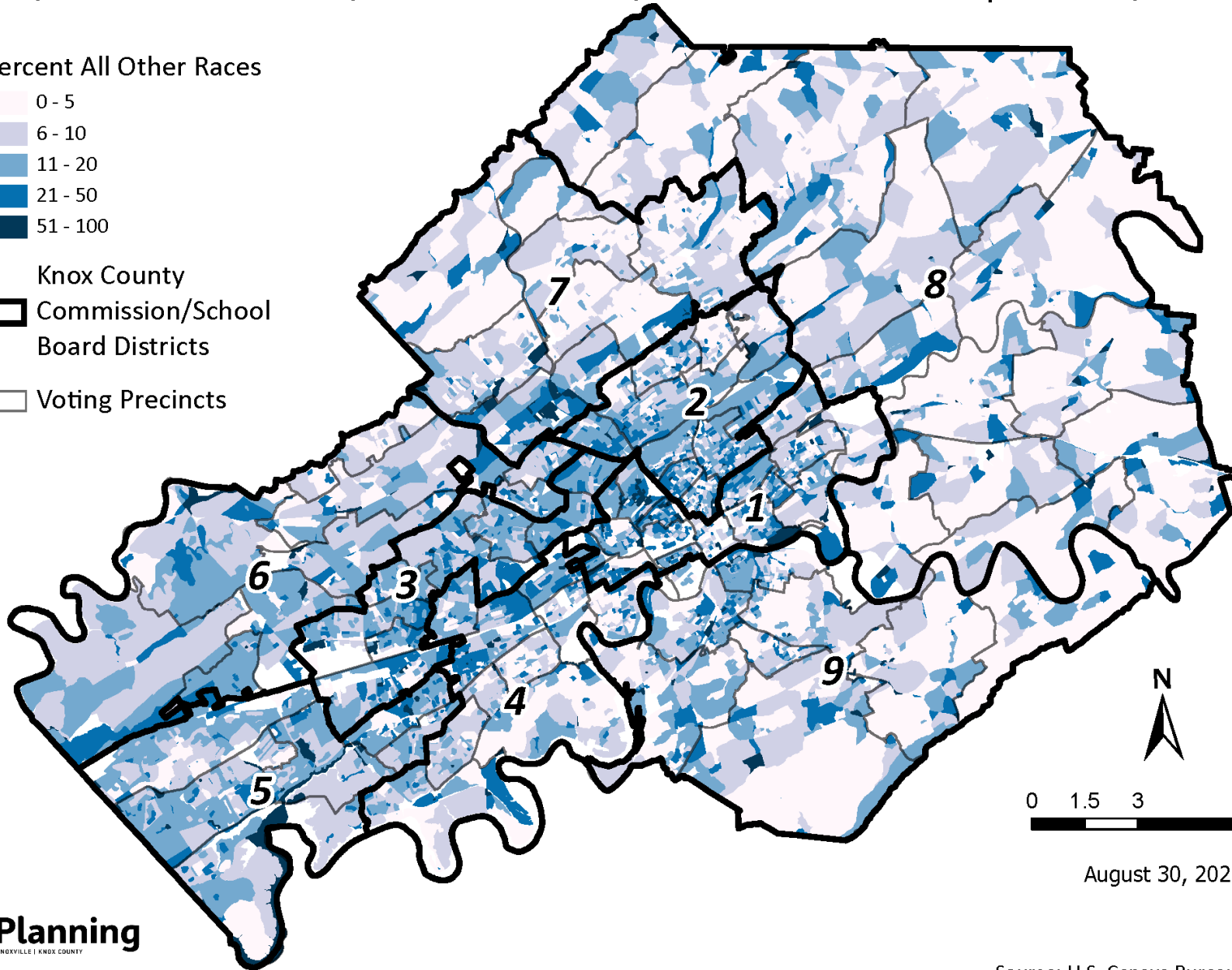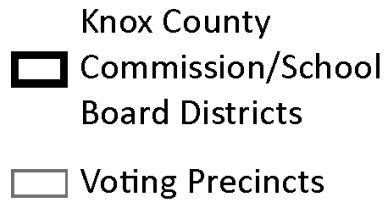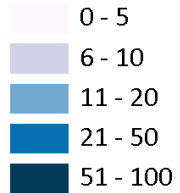
Percent All Other Races

- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 50
- 51 - 100

Knox County Commission/School Board Districts

Voting Precincts

N

0   1.5   3   6 Miles

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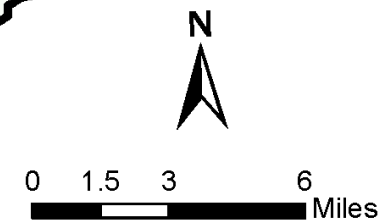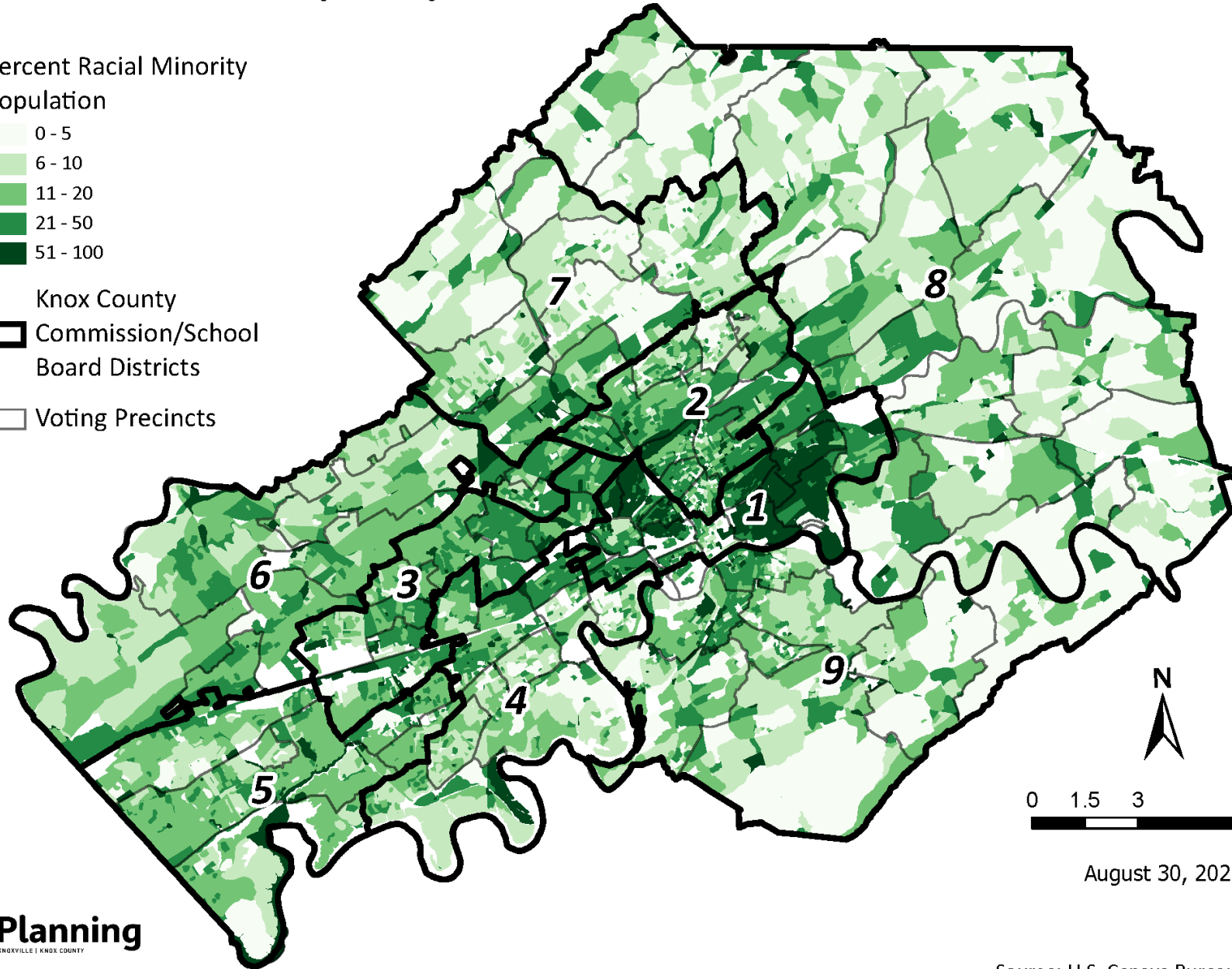Source: U.S. Census Bureau, PL94-171

Click to Open Interactive Map

Racial Minority Population, 2020

Percent Racial Minority Population

- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 50
- 51 - 100

Knox County Commission/School Board Districts
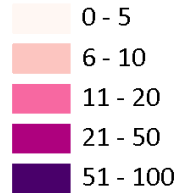
Voting Precincts

N

0   1.5   3   6
Miles

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Source: U.S. Census Bureau, PL94-171

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Hispanic or Latino Population, 2020

Percent Hispanic/Latino

- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 50
- 51 - 100

Knox County

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Voting Precincts
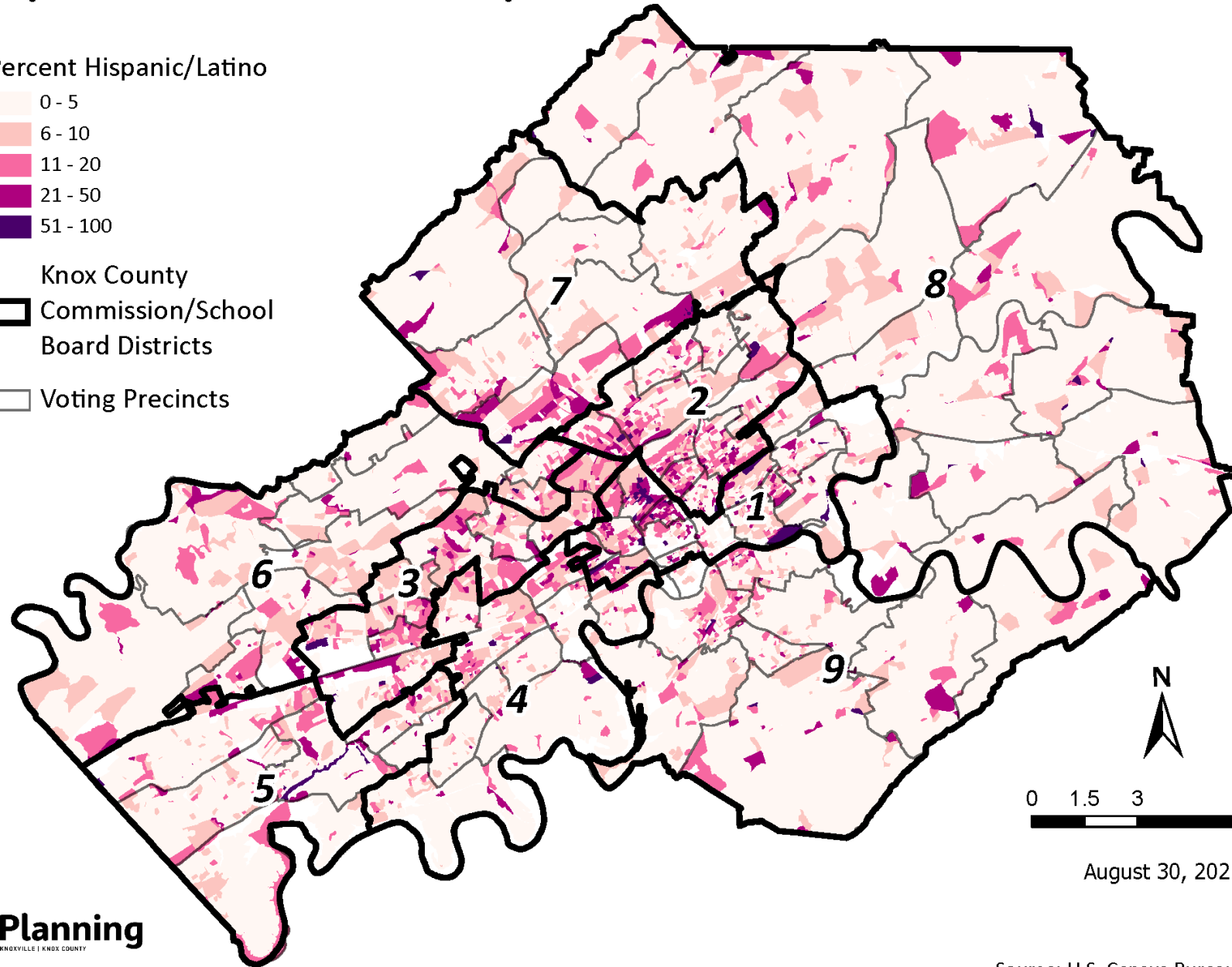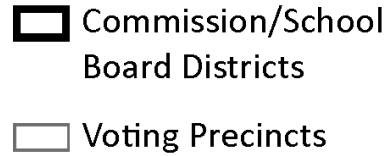
Hispanic and Latino
population has also grown

- Up to 28,568 (6.0% share)
  in 2020 from 15,012 (3.5%
  share of total population)
  in 2010

N

| 0 | 1.5 | 3 | | 6 |
Miles

August 30, 2021

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Interactive
Map

Source: U.S. Census Bureau, PL94-171

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Race and Ethnicity

The redistricting data release has made headlines because the population has been growing more diverse across the state and the nation.

The racial-ethnic minority share of the population, especially individuals who are two or more races and individuals who are Hispanic or Latino, is increasing.

Redistricting

- **Ideal Population** is the goal for each district

$$Ideal\ Population = \frac{Total\ Population}{Number\ of\ Districts}$$

$$53{,}095 = \frac{477{,}857}{9}$$

Ideal Population: 53,095

Redistricting

- **Absolute Deviation** is how far off a district is from the **Ideal Population**

$$Absolute\ Deviation = Actual\ Population - Ideal\ Population$$

District 1 example: $-3{,}783 = 49{,}312 - 53{,}095$

District 1 Absolute Deviation: -3,783

Redistricting

- **Relative Deviation** is the **Absolute Deviation** divided by the **Ideal Population** and it is expressed as a percentage

$$Relative\ Deviation = \frac{Absolute\ Deviation}{Ideal\ Population} \times 100$$

District 1 example: $-7.1\% = \dfrac{-3,783}{53,095} \times 100$

District 1 Relative Deviation: -7.1%

Redistricting

- The range from the smallest (or most negative) to the largest **Relative Deviation** is called the **Overall Deviation** or **Overall Range**

$$Overall\ Deviation = |Smallest| + Largest$$

$$Overall\ Deviation = |-7.1\%| + 15.5\%$$

$$22.6\% = 7.1\% + 15.5\%$$

Overall Deviation: 22.6%

Redistricting

- The goal of redistricting is to make each district have a "substantially equal population"
  - We define this as an **Overall Deviation** of less than 10%

Ideal Population: 53,095

Overall Deviation: 22.6%

District	Total Population	Absolute Deviation from Ideal Population	Relative Deviation from Ideal Population	
1	49,312	-3,783	-7.1%	Smallest ←
2	53,274	179	0.3%	
3	51,355	-1,740	-3.3%	
4	52,375	-720	-1.4%	
5	56,984	3,889	7.3%	Largest
6	61,337	8,242	15.5%	←
7	53,647	552	1.0%	
8	50,218	-2,877	-5.4%	
9	49,355	-3,740	-7.0%	

$$7.1 + 15.5 = 22.6$$