

COVID-19 AGENDA

June 8, 2021

Honorable Lina Hidalgo and
Members of Commissioners Court
1001 Preston Street, 9th Floor
Houston, Texas 77002

**RE: Transmittal of May update to the monthly memo on the distribution of
COVID-19 vaccinations in Harris County**

Dear Judge Hidalgo and Commissioners Ellis, Garcia, Ramsey, and Cagle:

In January 2021, Precinct Two requested the Analyst's Office produce a monthly memo regarding the distribution of COVID-19 vaccinations in Harris County. This is the fifth release of a standing monthly memo the Analyst's Office will produce as the vaccine distribution continues to evolve at the federal, state, and local levels.

The Analyst's Office respectfully transmits the enclosed memo via the Commissioners Court agenda.

Thank you for your consideration.



Katie Short
Director, Commissioners Court's Analyst's Office

To: Harris County Precinct Two Commissioner Adrian Garcia
From: Katie Short, Director; Amber Weed, Chief of Staff and Policy Director;
Amy Rose, Senior Analyst; Ramin Naderi, Analyst
CC: Mike Lykes, Kris Banks, Mohammed Jamal with Precinct Two; Barbie
Robinson, Gwen Sims, and Will Hudson with Harris County Public
Health
Date: June 8, 2021
Re: **Monthly Memo on COVID-19 Vaccine Distribution, May 2021**

EXECUTIVE SUMMARY

In January 2021, Precinct Two requested the Analyst's Office produce a monthly memo regarding the distribution of COVID-19 vaccinations in Harris County. This is the fifth memo of a standing monthly memo the Analyst's Office will produce as the vaccine distribution continues to evolve at the federal, state, and local levels.

This memo provides an overview of the COVID-19 pandemic and vaccine distribution in Harris County. Key findings from the data in this memo include:ⁱ

- As of May 23, 2021, **33.7% (1,588,752) of individuals in Harris County were fully vaccinated.**
- As of May 23, 2021, **12.8% (445,959) of individuals in Harris County were partially vaccinated.**
- Between April 26, 2021 and May 23, 2021, the **percentage of individuals in Harris County vaccinated with at least one vaccine dose increased by 18.8% (from 1,712,901 to 2,034,711).**
- **Zip codes 77060 and 77013 have the fewest number of individuals per 100,000 residents vaccinated with at least one dose (25,533 and 26,900, respectively).**
- **Zip codes 77030 and 77046 have the greatest number of individuals per 100,000 residents vaccinated with at least one dose (174,897 and 153,093, respectively).ⁱⁱ**
- **The median of the median incomes of the fifteen Harris County zip codes with the fewest number of individuals per 100,000 residents vaccinated with at least one dose is \$39,879.**

ⁱ IMPORTANT NOTE: Not all data sums to totals reported. This is due to poor and inconsistent data reporting by providers, and because patients have not been required to disclose all demographic data. DSHS reports it is actively conducting county and provider-level analyses to identify if certain providers or areas are underreporting more than others for targeted data entry funding and training.

ⁱⁱ Note: Significantly large numbers of residents who were administered a vaccine in zip code 77030 report living at the same address. HCPH suggests that this discrepancy may be caused by hospital staff entering the same address for employees to speed up the vaccination process. According to HCPH, the vaccination rate of greater than 100% in zip code 77046 is likely due to the low population (approximately 1,000 residents) relative to other zip codes, which means measured parameters are sensitive to bad data such as data entry errors, individuals using business addresses in lieu of a home residence, and other factors.

- The median of the median incomes of the fifteen Harris County zip codes with **the greatest number of individuals per 100,000 residents with at least one dose is \$81,803.**
- For all individuals who received at least one vaccine dose from a Harris County provider,
 - **6.6% (134,724) are 76+ years old or older;**
 - **20.6% (419,307) are ages 61-75;**
 - **26.7% (544,478) are ages 46-60;**
 - **27.2% (552,820) are ages 30-45; and**
 - **18.9% (384,438) are ages 12-29.**
- For all individuals who received at least one vaccine dose from a Harris County provider,
 - **29.6% (602,845) identify as White;**
 - **33.5% (682,106) identify as Hispanic/Latino;**
 - **10.9% (221,580) identify as Black;**
 - **8.9% (181,107) identify as Asian or Pacific Islander;**
 - **4.8% (97,778) identify as Multi-Race; and**
 - **0.3% (5,219) identify as American Indian or Alaskan Native.**
- Between January 1, 2020 and May 23, 2021:
 - **All providers in Harris County administered a cumulative 4,515,821 COVID-19 PCR tests;ⁱⁱⁱ**
 - **There were 398,777 positive COVID-19 cases confirmed by a PCR test in Harris County; and**
 - **There were 4,526 confirmed COVID-19 related deaths in Harris County.**

The Analyst's Office acknowledges Harris County Public Health for their significant contributions to this memo.

ⁱⁱⁱ PCR refers to the polymerase chain reaction tests commonly used to test for COVID-19.

INTRODUCTION

In January 2021, Precinct Two requested the Harris County Commissioners Court's Analyst's Office (the "Analyst's Office") produce a monthly memo regarding the distribution of COVID-19 vaccinations in Harris County. This is the fifth memo of a standing monthly memo the Analyst's Office will produce as the vaccine distribution continues to evolve at the federal, state, and local levels.

This memo includes data and analysis regarding the COVID-19 vaccine administration in Harris County. This memo expands on the previous publications (the January, February, March, and April COVID-19 Vaccine Distribution memos) by including precinct-level data relating to age and race and ethnicity of vaccinated individuals in Harris County.

METHODOLOGY

Data utilized in this memo are from Harris County Public Health (HCPH); the Centers for Disease Control and Prevention (CDC); and Harris County's Applied Technologies Location Analysis and Statistics (ATLAS) System. Data reflect COVID-19 vaccine doses administered in Harris County by all providers from the beginning of the vaccine rollout, December 14, 2020, through May 23, 2021, and all testing, confirmed cases, and COVID-19-related death data from January 1, 2020 through May 23, 2021.

Data Collected from Harris County Public Health (HCPH)

The majority of data in this memo was sent to the Analyst's Office from HCPH, which pulls data from the Texas Department of State Health Services (DSHS) ImmTrac2 system. As the Local Health Authority for the County, HCPH also pulls testing, confirmed cases, and COVID-19-related death data received from local health providers (including the City of Houston) and other sources. HCPH data aided in the development of all tables and figures.

DSHS advised the following via email regarding the data available on ImmTrac2:

- Providers in Texas have up to 24-hours to report doses administered in ImmTrac2, and the dashboard is updated by 4:00 pm with data reported as of 11:59 pm the previous night. This means there could be as much as a 48-hour lag between when a dose is administered and when it appears on ImmTrac2.

UPDATE: Previous iterations of this memo provided updates and projections on vaccine allocations to the State of Texas or Harris County using DSHS data. However, as of May 10, 2021, DSHS announced it is no longer providing weekly allocations to providers due to a "sufficient supply of vaccine."^{iv} Due to this changed strategy of allocating vaccine, this memo no longer provides updates and projections on vaccine allocations to the State of Texas or Harris County. In addition, as countywide efforts shift to reaching herd immunity, this memo no longer reports doses administered.

^{iv} Department of State Health Services (DSHS) COVID-19 Vaccine Allocations. Retrieved May 27, 2021, from <https://www.dshs.state.tx.us/coronavirus/immunize/vaccineallocations.aspx>

Data Collected from Centers for Disease Control and Prevention (CDC)

The Analyst's Office collected data on Social vulnerability from the Centers for Disease Control and Prevention (CDC). Social vulnerability refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human caused threats, such as toxic chemical spills.^v The Social Vulnerability Index (SVI) was created by the CDC and depicts the social vulnerability of communities, at census tract level, within a given county. SVI groups fifteen census-derived factors into four themes that summarize the extent to which the area is socially vulnerable to disaster. The factors include economic data as well as data regarding education, family characteristics, housing, language ability, ethnicity, and vehicle access. Overall Social Vulnerability Index combines all the variables to provide a comprehensive assessment. SVI data aided with the development of Table 1.

Data Collected from Applied Technologies Location Analysis and Statistics (ATLAS)

The Analyst's Office collected income data from Harris County's Applied Technologies Location Analysis and Statistics (ATLAS) System. Income data reflects American Community Survey, 2014-2018 Five-Year Estimates, which aided with the development of Table 1.

^v Centers for Disease Control (CDC) Social Vulnerability Index, a tool to identify socially vulnerable communities.

BACKGROUND

The spread of the novel coronavirus, the cause of COVID-19, began in the United States in early 2020. Since then, local health entities have tracked the testing, number of confirmed positive cases, and deaths related to COVID-19.

In December 2020, two-dose vaccines from two producers, Moderna and Pfizer-BioNTech, were authorized for emergency use from the US Food and Drug Administration (FDA). In February 2021, the FDA authorized Johnson & Johnson's (J&J) one-dose vaccine for emergency use.

For the bulk of vaccine allocation, the federal government distributed COVID-19 vaccine doses to the Texas Department of State Health Services (DSHS), which then allocated doses to local providers in Harris County. Any facility, organization, or healthcare provider licensed to possess or administer vaccine or provide vaccination services is eligible to enroll as a designated provider. Providers include: emergency services; health centers (community, federally qualified, migrant, rural); hospitals; long-term care; medical clinic/doctor's office; pharmacy; public health/government; federal long-term care; and other facilities.^{vi} As of May 10, 2021, DSHS no longer provides direct allocations to local providers; providers are now able to order vaccines directly from DSHS on a daily basis as needed.^{vii}

From December 2020 to March 28, 2021, vaccines were made available for individuals in DSHS's Phase 1A (front-line healthcare workers and residents of long-term care facilities) and 1B (individuals ages 65+ and individuals ages 16+ with "at least one chronic medical condition that puts them at increased risk for severe illness from the virus that causes COVID-19").^{viii ix} On March 29, 2021, Texas expanded vaccine eligibility to all individuals age 16 and older. Beginning May 12, 2021, Texas expanded vaccine eligibility to all individuals age 12 and older. Currently, all vaccines are authorized for individuals age 18 and older; the Pfizer vaccine is authorized for individuals age 12 and older.^x The population of individuals age 12 and older in Harris County is 3,873,534.^{xi}

^{vi} Department of State Health Services (DSHS) COVID-19 Vaccine Allocation Dashboard. Retrieved March 29, 2021, from <https://tabexternal.dshs.texas.gov/t/THD/views/COVID-19VaccineinTexasDashboard/IndividualsVaccinated>

^{vii} Department of State Health Services (DSHS) COVID-19 Vaccine Allocations. Retrieved May 27, 2021, from <https://www.dshs.state.tx.us/coronavirus/immunize/vaccineallocations.aspx>

^{viii} Department of State Health Services (DSHS) COVID-19 Vaccine Allocation Phase 1 Definition

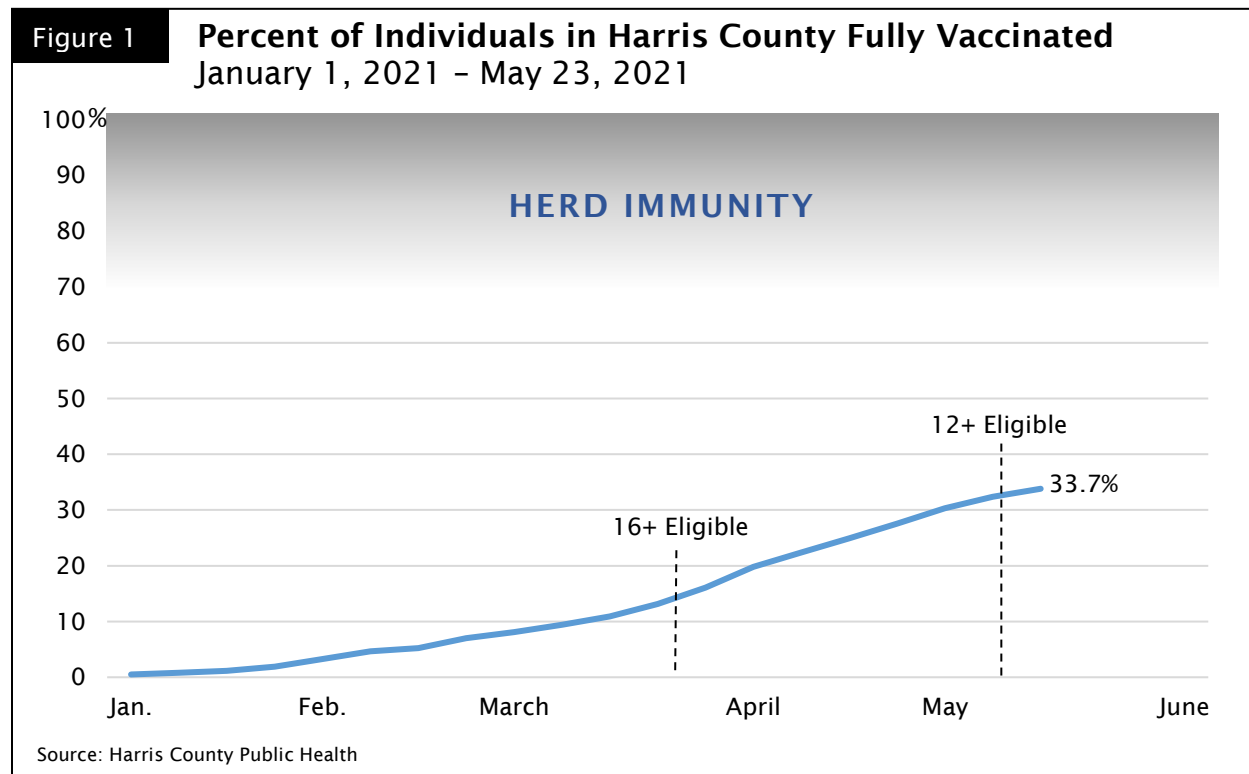
^{ix} Department of State Health Services (DSHS) COVID-19 Vaccine Allocation Phase 1B Definition

^x *COVID-19 Vaccine Information*. (n.d.). Texas Department of State Health Services. Retrieved May 27, 2021, from <https://dshs.texas.gov/covidvaccine/>

^{xi} U.S. Census Bureau QuickFacts: Harris County. (n.d.). Retrieved March 29, 2021, from www.census.gov/quickfacts/fact/table/harriscountytexas/PST045219

INDIVIDUALS IN HARRIS COUNTY FULLY VACCINATED

Figure 1 presents the percentage of Harris County individuals fully vaccinated between January 1, 2021 and May 23, 2021.^{xii} This figure includes individuals vaccinated by Harris County Public Health (HCPH) and all other providers. HCPH reports countywide data regarding individuals fully vaccinated and partially vaccinated on a weekly basis—the data presented below extends through the week of May 17 – 23, 2021.



As of May 23, 2021, 33.7% (1,588,752) of individuals in Harris County were fully vaccinated, meaning an individual has received both doses of either the Moderna or Pfizer vaccines or a single dose of the Johnson & Johnson vaccine.^{xiii}

A total of 12.8% (445,959) of Harris County's residents were partially vaccinated as of May 23, 2021.^{xiv} Individuals who are partially vaccinated and individuals fully vaccinated are mutually exclusive, meaning individuals partially vaccinated only includes individuals with one vaccine dose of a two-dose shot (Pfizer or Moderna) and individuals fully vaccinated includes individuals who have received either the Johnson & Johnson vaccine or two vaccine doses of Pfizer or Moderna.

On March 29, 2021, Texas expanded vaccine eligibility to all individuals age 16 and older. Beginning May 12, 2021, Texas expanded vaccine eligibility to all individuals age 12 and older.

^{xii} Previous iterations of this memo presented partially and fully vaccinated individuals as a percentage of the total *eligible* population. Total population is used to calculate herd immunity.

^{xiii} Figure assumes Harris County's total population of 4,713,325, per American Community Survey 2019, 1 Year Estimates.

^{xiv} Figure assumes Harris County's total population of 4,713,325, per American Community Survey 2019, 1 Year Estimates.

NUMBER OF INDIVIDUALS PER 100,000 RESIDENTS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY ZIP CODE

Table 1 presents the number of individuals per 100,000 residents vaccinated with at least one vaccine dose by zip code. The table also includes the median income, Social Vulnerability Index (SVI) score, and commissioner precinct for each zip code. Commissioner precinct boundaries do not align with zip code boundaries; some zip codes are in multiple precincts. Precincts are listed in order of the greatest to least percentage of zip code land mass within the precinct.

Social vulnerability describes a community's ability to prevent human suffering and financial loss in the event of disaster (such as a hurricane or disease outbreak).^{xv} SVI rankings are based on percentiles valuing in range from 0 to 1 (with higher values indicating greater vulnerability). SVI data is often presented using quartile classification. This analysis utilizes CDC's SVI classifications as follows: 0-0.25 (lowest vulnerability); 0.2501-0.5 (moderate low); 0.5001-0.75 (moderate high); and 0.7501-1 (highest vulnerability).

Table 1 ranks zip codes within Harris County to show relative vulnerability in comparison to the rest of Harris County. The median of the median incomes of the fifteen Harris County zip codes with the **fewest number of individuals per 100,000 residents vaccinated with at least one dose** is \$39,879. The median of the median incomes of the fifteen Harris County zip codes with the **greatest number of individuals per 100,000 residents vaccinated with at least one dose** is \$81,803.^{xvi xvii}

^{xv} Centers for Disease Control (CDC) SVI 2016 Documentation.

^{xvi} Note: Significantly large numbers of residents who were administered a vaccine in zip code 77030 report living at the same address. HCPH suggests that this discrepancy may be caused by hospital staff entering the same address for employees to speed up the vaccination process. According to HCPH, the vaccination rate of greater than 100% in zip codes 77010, 77056, 77046, and 77030 is likely due to the low population relative to other zip codes, which means measured parameters are sensitive to bad data such as data entry errors, individuals using business addresses in lieu of a home residence, and other factors. For a full list of zip codes, see Appendix D.

^{xvii} Analysis excludes zip codes with small percentage of land mass in Harris County and zip code 77507 which encompasses the Bayport Industrial District, a large commercial real-estate development area of Pasadena with no income data available.

Table 1

Number of Individuals Per 100,000 Residents Vaccinated With At Least One Dose by Zip Code, Median Income, SVI, and Commissioner Precinct

December 14, 2020 – May 23, 2021

Zip Codes With Fewest Number of Individuals Per 100,000 Vaccinated With At Least One Dose

| Zip Code | Number Per 100k | Median Income | SVI | Commissioner Precinct(s) |
|----------|-----------------|---------------|------|--------------------------|
| 77060 | 25,533 | \$30,342 | 0.94 | 1,2,4 |
| 77013 | 26,900 | \$39,766 | 0.98 | 2,1 |
| 77090 | 28,021 | \$39,879 | 0.70 | 1,4 |
| 77506 | 28,264 | \$38,311 | 0.95 | 2 |
| 77083 | 28,415 | \$85,000 | 0.53 | 3* |
| 77067 | 28,995 | \$41,859 | 0.79 | 4,1 |
| 77081 | 29,093 | \$54,489 | 0.81 | 3 |
| 77078 | 31,017 | \$37,356 | 0.89 | 1,2 |
| 77076 | 31,368 | \$37,072 | 0.86 | 2,1 |
| 77050 | 31,586 | \$56,275 | 0.71 | 1,2 |
| 77039 | 31,823 | \$36,347 | 0.73 | 2,1 |
| 77093 | 31,917 | \$31,261 | 0.97 | 2,1 |
| 77503 | 32,042 | \$50,445 | 0.82 | 2 |
| 77336 | 32,469 | \$69,512 | 0.30 | 2,4 |
| 77014 | 32,514 | \$48,790 | 0.78 | 1,4 |

Zip Codes With Greatest Number of Individuals Per 100,000 Vaccinated With At Least One Dose

| Zip Code | Number Per 100k | Median Income | SVI | Commissioner Precinct(s) |
|----------|-----------------|---------------|------|--------------------------|
| 77005 | 67,988 | \$74,792 | 0.03 | 3,1 |
| 77059 | 69,541 | \$66,983 | 0.05 | 2 |
| 77094 | 70,031 | \$175,840 | 0.00 | 3 |
| 77006 | 72,093 | \$117,367 | 0.09 | 1 |
| 77019 | 75,562 | \$103,478 | 0.09 | 4,1 |
| 77007 | 76,494 | \$65,742 | 0.01 | 4,1,2 |
| 77008 | 77,969 | \$68,204 | 0.08 | 4,1 |
| 77002 | 79,324 | \$67,043 | 0.42 | 1,2 |
| 77098 | 85,615 | \$95,835 | 0.07 | 4,1,3 |
| 77024 | 89,869 | \$104,167 | 0.16 | 3,4 |
| 77027 | 98,391 | \$53,263 | 0.01 | 4,3 |
| 77010 | 105,684 | \$240,417 | 0.02 | 1 |
| 77056 | 128,661 | \$50,485 | 0.14 | 3 |
| 77046 | 153,093 | \$81,803 | 0.10 | 4 |
| 77030 | 174,897 | \$116,920 | 0.28 | 1 |

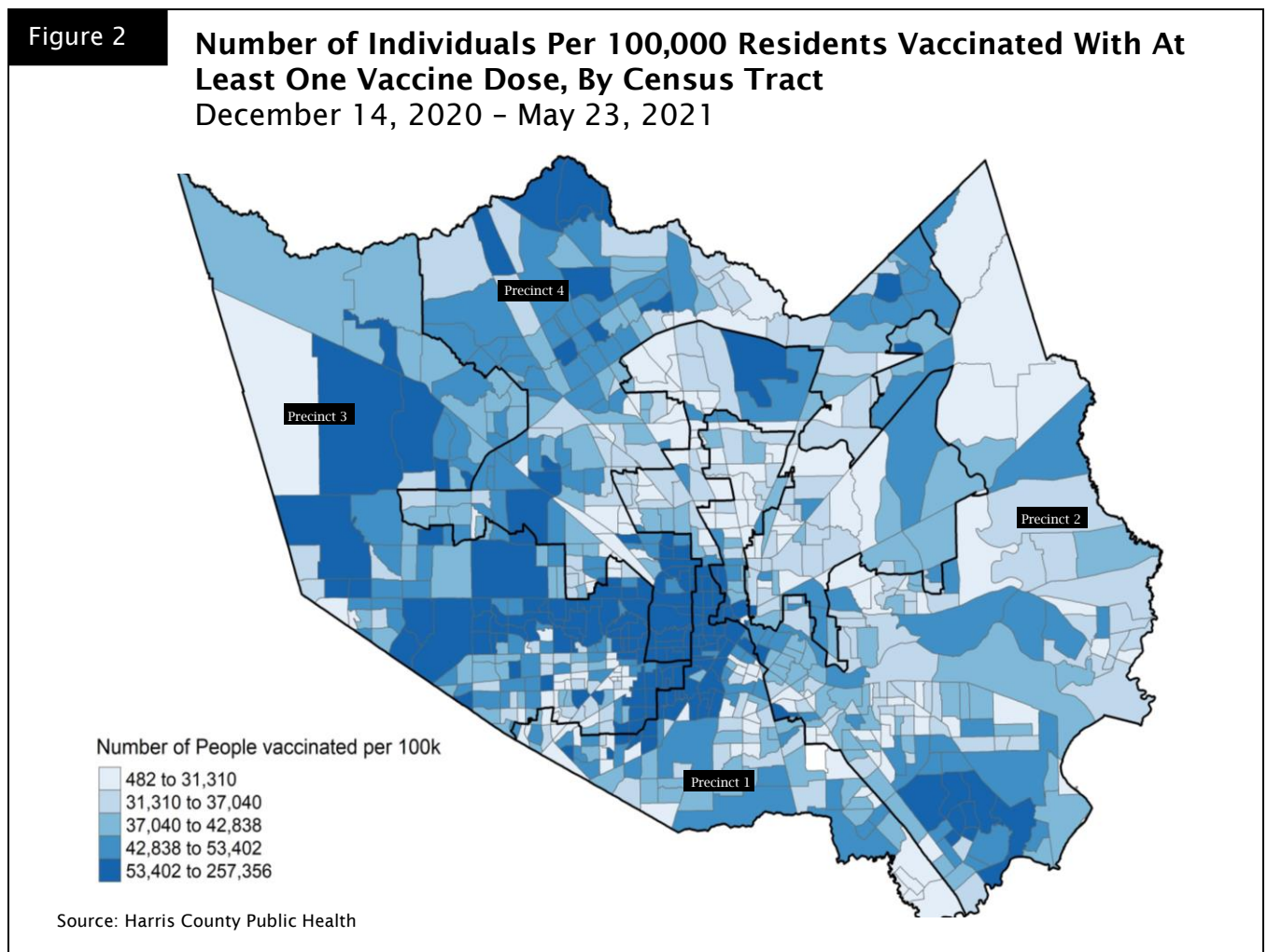
 Moderate High Vulnerability
  Highest Vulnerability
  Moderate Low Vulnerability
  Lowest Vulnerability

*Indicates partial zip code land mass is outside of Harris County.

Source: American Community Survey (ACS) 2018 5-year estimates downloaded from Harris County's Applied Technologies Location Analysis and Statistics (ATLAS), Centers for Disease Control (CDC), and Harris County Public Health (HCPH)

NUMBER OF INDIVIDUALS VACCINATED WITH AT LEAST ONE VACCINE DOSE PER 100,000 RESIDENTS BY CENSUS TRACT

Figure 2 presents the number of individuals per 100,000 Harris County residents vaccinated with at least one vaccine dose by census tract.

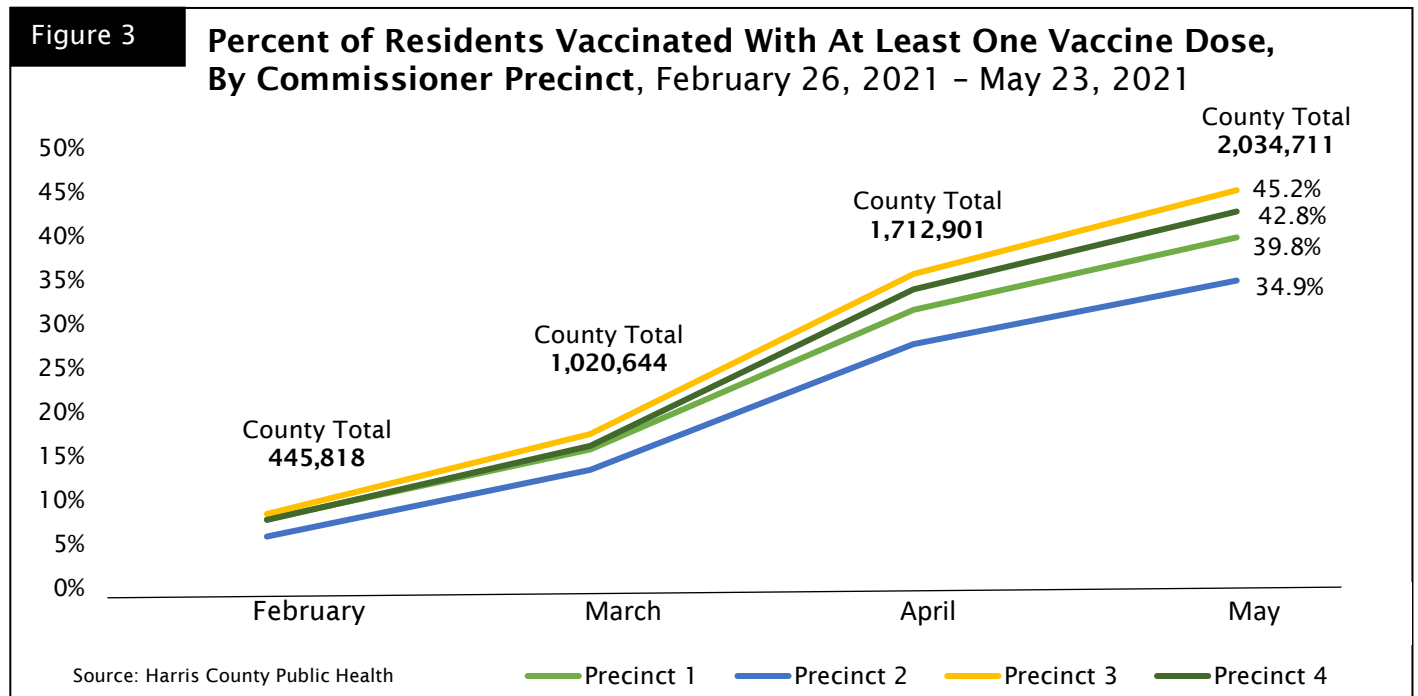


As of May 23, 2021, **43.2% (2,034,711)** of Harris County residents received at least **one vaccine dose**—52.8% of Harris County’s eligible population, individuals age 12 and older.^{xviii}

^{xviii} Figure assumes Harris County’s total population of 4,713,325, per American Community Survey 2019, 1 Year Estimates. Eligible individuals include individuals ages 12 and over, this population is estimated to be 3,852,215 in Harris County, per Analyst’s Office analysis of American Community Survey 2019, 1 Year Estimates.

PERCENT OF RESIDENTS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY COMMISSIONER PRECINCT

Figure 3 demonstrates the growth in the percent of residents vaccinated with at least one dose per commissioner precinct from February 26, 2021 through May 23, 2021 for all four Harris County commissioner precincts.



Between February 26, 2021 and March 29, 2021, the percentage of individuals in Harris County vaccinated with at least one vaccine dose increased by 128.9% (from 445,818 to 1,020,644).^{xix} Between March 29, 2021 and April 26, 2021, the percentage of individuals in Harris County vaccinated with at least one vaccine dose increased by 67.8% (from 1,020,644 to 1,712,901). Between April 26, 2021 and May 23, 2021, the percentage of individuals in Harris County vaccinated with at least one vaccine dose increased by 18.8% (from 1,712,901 to 2,034,711).^{xx}

As of May 23, 2021:

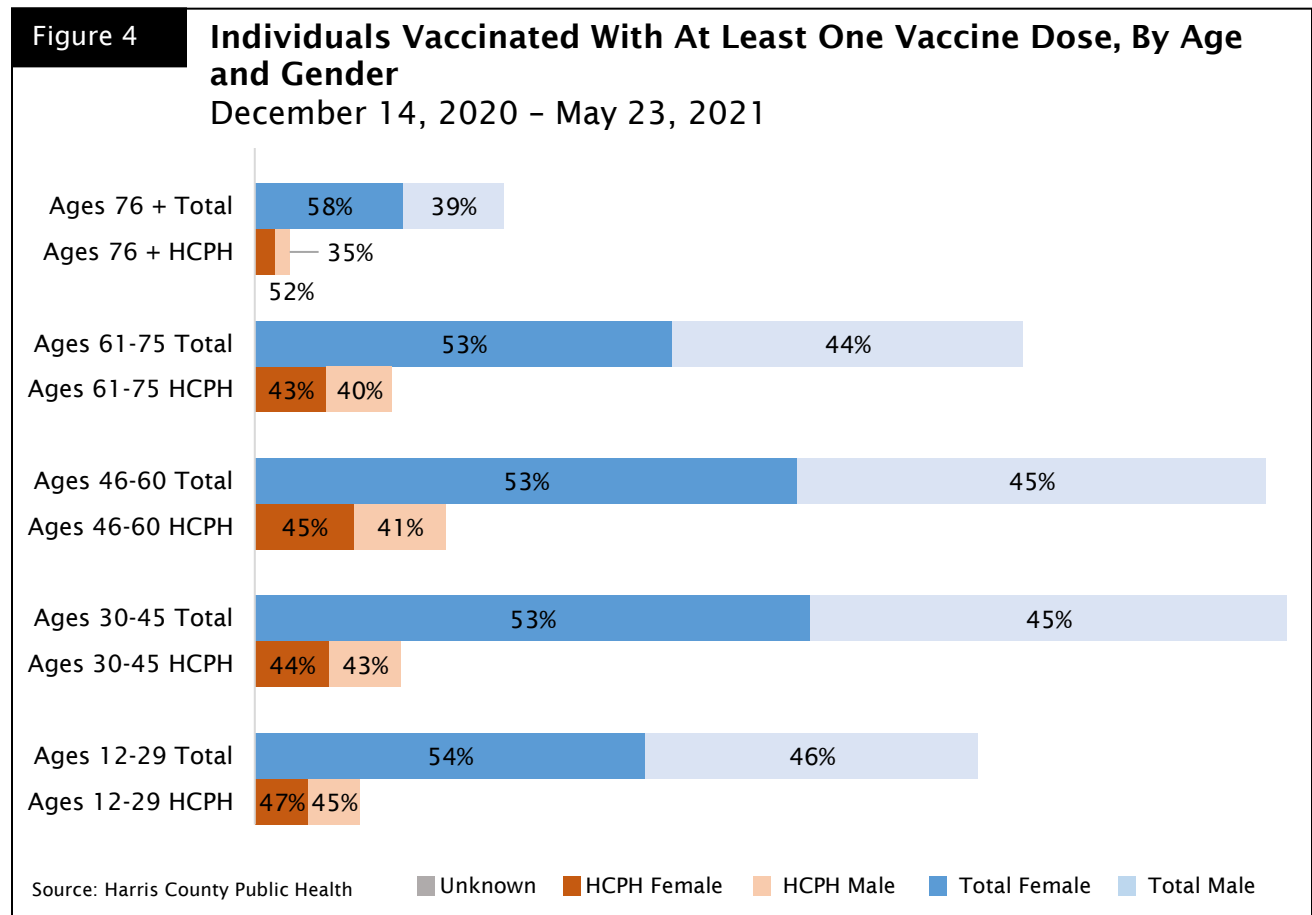
- **39.8% (458,195) of Precinct One residents** received at least one vaccine dose—a 26.1% increase over the prior month;
- **34.9% (388,113) of Precinct Two residents** received at least one vaccine dose—the lowest percentage of the four precincts, but a 26.1% increase for the Precinct over the prior month;
- **45.2% (572,667) of Precinct Three residents** received at least one vaccine dose—the greatest percentage of the four precincts, and a 26.8% increase over the prior month; and,
- **42.8% (517,308) of Precinct Four residents** received at least one vaccine dose—a 26.1% increase over the prior month.

^{xix} Figure assumes Harris County's total population of 4,713,325, per American Community Survey 2019, 1 Year Estimates.

^{xx} Precinct totals do not sum to County total because 98,428 individuals have addresses that cannot be geo-coded into a Precinct.

INDIVIDUALS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY AGE AND GENDER

Figure 4 and **Table 2**, which follows, reflect all individuals vaccinated with at least one dose by any provider in Harris County and those vaccinated by Harris County Public Health (HCPH) by the individual's age and gender.



Of the individuals who have been vaccinated with at least one dose by a Harris County provider, 53% (1,083,634) are female; 45% (911,239) are male; 0.01% (137) identify as “other”; and 2% (40,894) are recorded as unknown gender.^{xxi}

^{xxi} Age and gender totals do not sum to vaccine doses administered totals due to some records having incomplete or incorrect data.

INDIVIDUALS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY AGE GROUP

Table 2 reflects all individuals vaccinated with at least one dose by providers in Harris County and those vaccinated by Harris County Public Health (HCPH) by the individual's age group and includes the age group percentage of the total vaccinated population.

Previous versions of this memo reflected age groups defined according to the State of Texas's phased eligibility for vaccines. As the State has expanded vaccine eligibility to include all adults and some children, the age groups have been adjusted to reflect regular intervals to allow for easier comparison.

Table 2

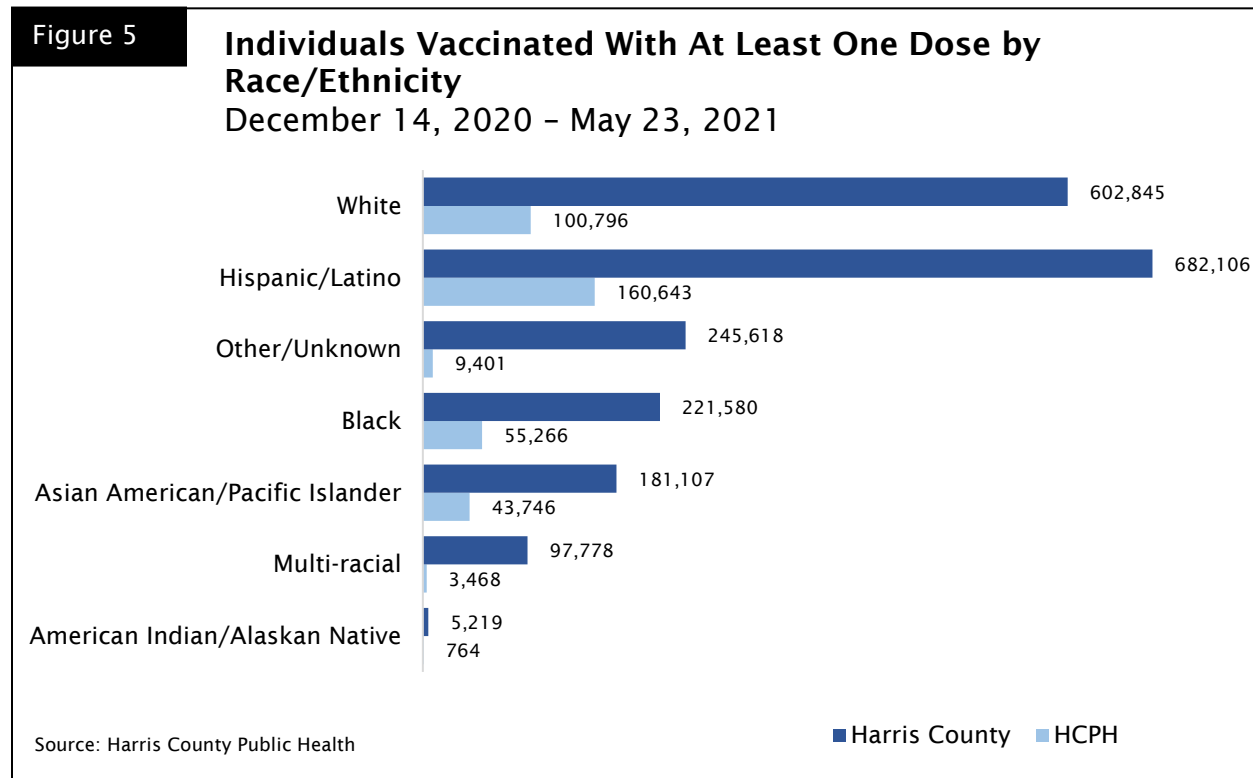
| Individuals Vaccinated With At Least One Dose, By Age Group December 14, 2020 – May 23, 2021 | | | |
|---|-----------|--|--|
| | Age Group | Number of Individuals Vaccinated | As Percentage of Harris County's Vaccinated Population ^{xxii} |
| All Providers | 76+ | 134,724 | 6.6% |
| HCPH | | 21,118 | |
| All Providers | 61-75 | 419,307 | 20.6% |
| HCPH | | 87,656 | |
| All Providers | 46-60 | 544,478 | 26.7% |
| HCPH | | 116,669 | |
| All Providers | 30-45 | 552,820 | 27.2% |
| HCPH | | 88,446 | |
| All Providers | 12-29 | 384,438 | 18.9% |
| HCPH | | 60,270 | |

Source: Harris County Public Health

^{xxii} Reflects the total age group vaccinated with at least one dose as a percentage of all individuals vaccinated.

INDIVIDUALS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY RACE AND ETHNICITY

Figure 5 and **Table 3**, which follows, reflect the race and ethnicity of individuals in Harris County who received at least one vaccine dose from any provider in Harris County and by Harris County Public Health (HCPH).^{xxiii}



^{xxiii} Note: Prior to February 4, 2021, providers were not required to report race/ethnicity when reporting doses to Texas Department of State Health Services (DSHS) because vaccine recipients are allowed to decline disclosing their race/ethnicity to a provider.

INDIVIDUALS VACCINATED WITH AT LEAST ONE VACCINE DOSE BY RACE AND ETHNICITY

Table 3 reflects the race and ethnicity of individuals in Harris County who received at least one vaccine dose from a provider in Harris County and by Harris County Public Health (HCPH).^{xxiv} For context, **Table 3** also includes the percentage of Harris County's total population by race and ethnicity.

Table 3

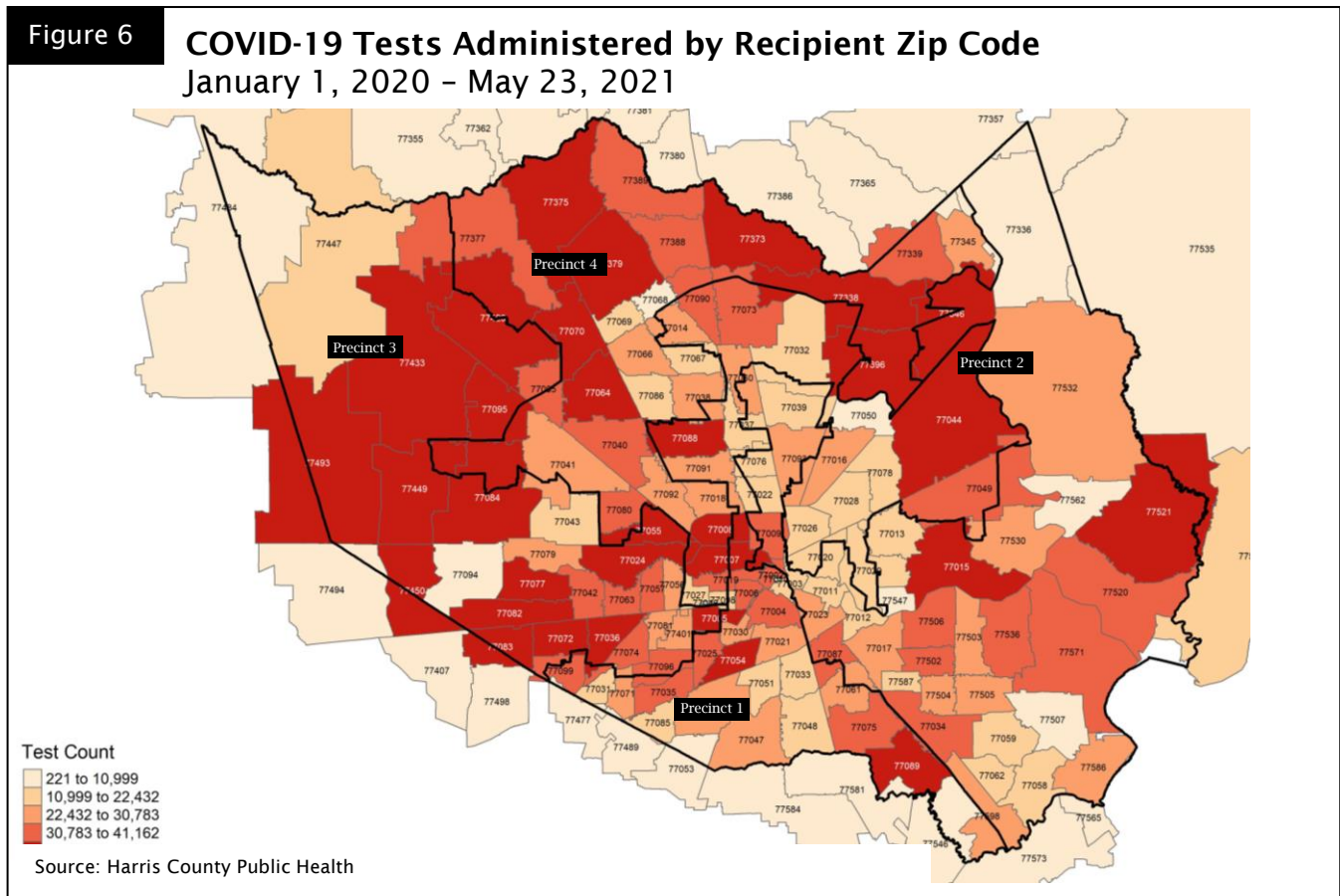
| Individuals Vaccinated With At Least One Dose by Race/Ethnicity December 14, 2020 – May 23, 2021 | | | | |
|---|-------------------------------------|--|---|---|
| | Race/Ethnicity | Number of Individuals Vaccinated | As Percentage of Harris County's Vaccinated Population | As Percentage of Harris County's Total Population |
| All Providers | White | 602,845 | 29.6% | 28.9% |
| HCPH | | 100,796 | | |
| All Providers | Hispanic/Latino | 682,106 | 33.5% | 43.3% |
| HCPH | | 160,643 | | |
| All Providers | Other/Unknown | 245,618 | 12.1% | 0.3% |
| HCPH | | 9,401 | | |
| All Providers | Black | 221,580 | 10.9% | 18.7% |
| HCPH | | 55,266 | | |
| All Providers | Asian American/ Pacific Islander | 181,107 | 8.9% | 7.1% |
| HCPH | | 43,746 | | |
| All Providers | Multi-racial | 97,778 | 4.8% | 1.6% |
| HCPH | | 3,468 | | |
| All Providers | American Indian/ Alaskan Native | 5,219 | 0.3% | 0.2% |
| HCPH | | 764 | | |

Source: Harris County Public Health

^{xxiv} Note: Prior to February 4, 2021, providers were not required to report race/ethnicity when reporting doses to Texas Department of State Health Services (DSHS) because vaccine recipients are allowed to decline disclosing their race/ethnicity to a provider.

COVID-19 TESTS BY ZIP CODE

Figure 6 reflects the total number of COVID-19 polymerase chain reaction (PCR) tests administered to Harris County residents by all providers in Harris County by zip code, and **Table 4** reflects the number of COVID-19 PCR tests administered by commissioner precinct.^{xxxv}



Between January 1, 2020 and May 23, 2021, providers in Harris County **administered 4,515,821 COVID-19 tests**. For a full list of tests administered by recipient zip code, see Appendix A.^{xxvi}

Table 4

COVID-19 Tests Administered, by Commissioner Precinct and for Harris County, January 1, 2020 – May 23, 2021

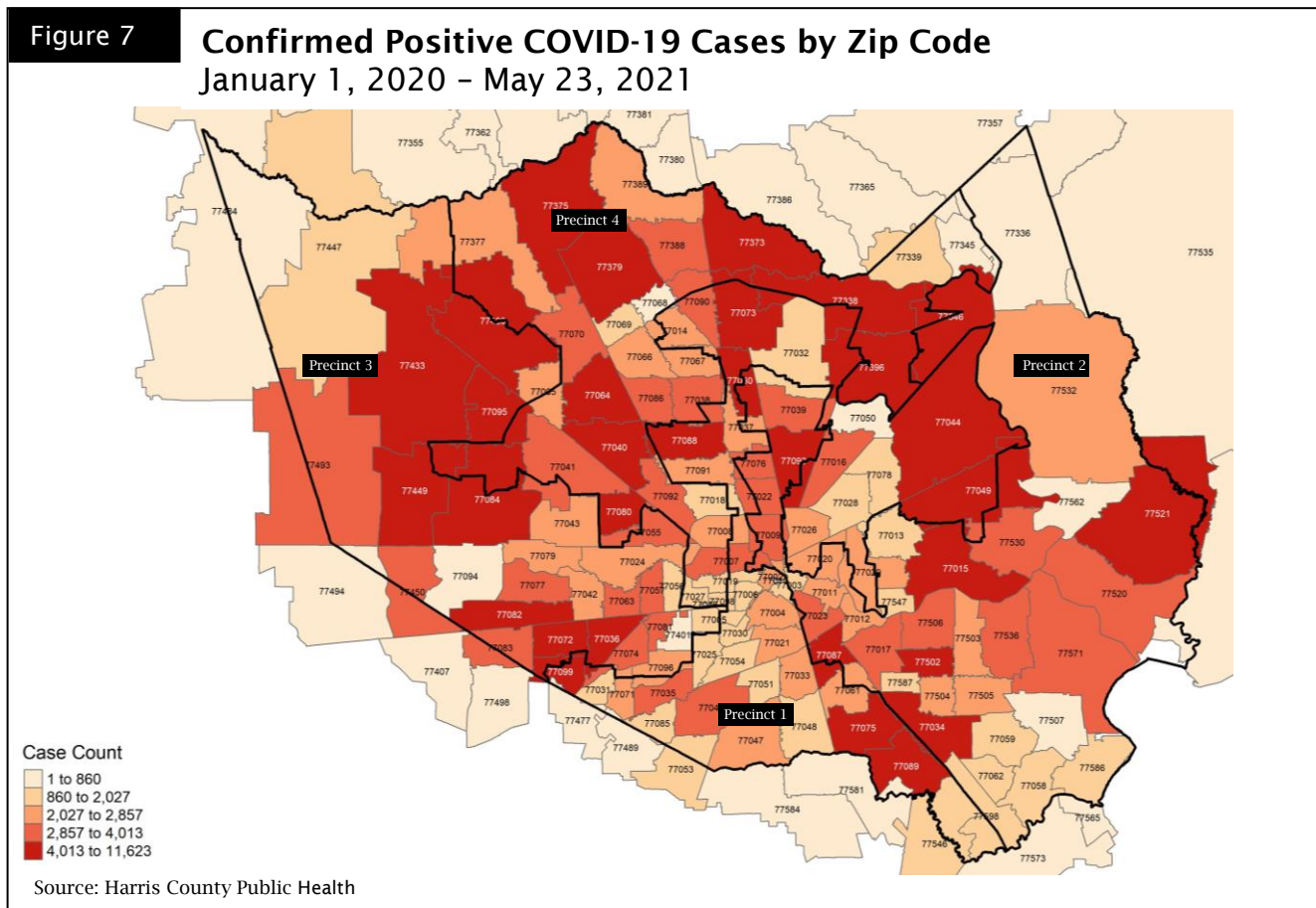
| Precinct 1 | Precinct 2 | Precinct 3 | Precinct 4 | Total Tests |
|------------|------------|------------|------------|-------------|
| 1,071,756 | 964,618 | 1,129,315 | 1,077,673 | 4,515,821 |

^{xxxv} PCR refers to the polymerase chain reaction tests commonly used to test for COVID-19.

^{xxvi} Precinct totals do not sum to Total Tests because 272,459 tests administered have addresses that cannot be geo-coded into a Precinct.

CONFIRMED POSITIVE COVID-19 CASES BY ZIP CODE

Figure 7 reflects the total number of COVID-19 positive cases confirmed by a PCR test in Harris County, reported by zip code and **Table 5** reflects the number of positive COVID-19 cases by commissioner precinct.^{xxvii}



Between January 1, 2020 and May 23, 2021, there were **398,777 confirmed positive cases of COVID-19** in Harris County. For a full list of positive cases by zip code, see Appendix B.^{xxviii}

Table 5

Confirmed Positive Cases by Commissioner Precinct and for Harris County, January 1, 2020 – May 23, 2021

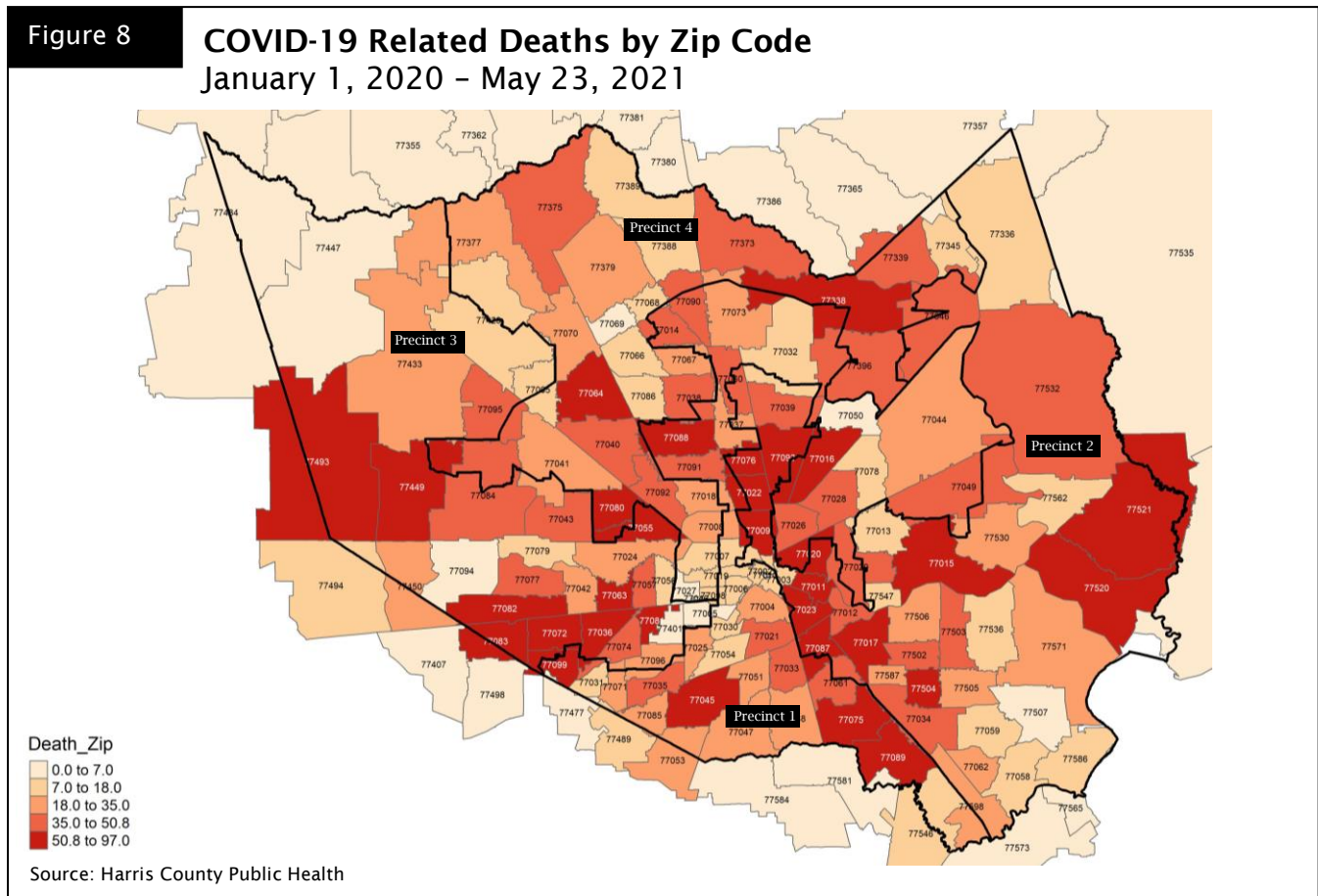
| Precinct 1 | | Precinct 2 | | Precinct 3 | | Precinct 4 | | County | |
|-----------------|--------------------------|-----------------|--------------------------|-----------------|--------------------------|-----------------|--------------------------|-----------------|------------------------|
| Number of Cases | % of Precinct Population | Number of Cases | % of Precinct Population | Number of Cases | % of Precinct Population | Number of Cases | % of Precinct Population | Number of Cases | % of County Population |
| 104,982 | 9.1% | 100,576 | 9.1% | 96,238 | 7.6% | 93,976 | 7.8% | 398,777 | 8.5% |

^{xxvii} PCR refers to the polymerase chain reaction tests commonly used to test for COVID-19.

^{xxviii} Precinct totals do not sum to Total Cases because 3,005 confirmed cases have addresses that cannot be geo-coded into a Precinct.

CONFIRMED COVID-19 RELATED DEATHS BY ZIP CODE

Figure 8 reflects the total number of confirmed COVID-19 related deaths in Harris County by zip code and **Table 6** reflects the number of COVID-19 related deaths by commissioner precinct.



Between January 1, 2020 and May 23, 2021, there were **4,526 confirmed COVID-19 related deaths** in Harris County. For a full list of deaths by zip code, see Appendix C.^{xxix}

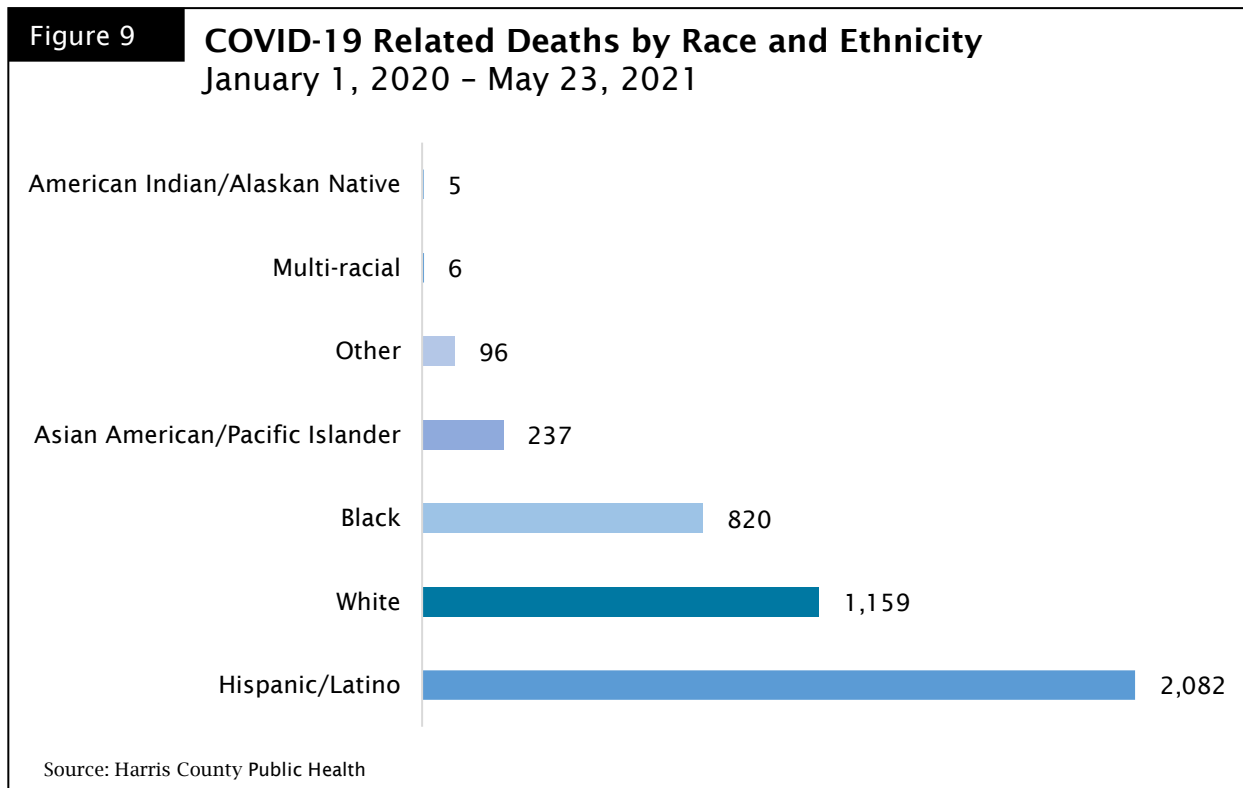
Table 6

| COVID-19 Related Deaths by Commissioner Precinct and for Harris County, January 1, 2020 - May 23, 2021 | | | | | | | | | |
|--|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|--------------------------|------------------|------------------------|
| Precinct 1 | | Precinct 2 | | Precinct 3 | | Precinct 4 | | County Total | |
| Number of Deaths | % of Precinct Population | Number of Deaths | % of Precinct Population | Number of Deaths | % of Precinct Population | Number of Deaths | % of Precinct Population | Number of Deaths | % of County Population |
| 1,370 | 0.12% | 1,306 | 0.12% | 1011 | 0.08% | 808 | 0.07% | 4,526 | 0.10% |

^{xxix} Precinct totals do not sum to Total Deaths because 31 deaths have addresses that cannot be geo-coded into a Precinct.

COVID-19 RELATED DEATHS BY RACE AND ETHNICITY

Figure 9 reflects the total number of confirmed COVID-19 related deaths in Harris County by race and ethnicity.^{xxx}



Of the 4,526 individuals in Harris County who died of a COVID-19-related death:^{xxxxi}

- **0.1% (5) identified as American Indian or Alaskan Native**, and for context, 0.2% of County residents identify as American Indian or Alaskan Native;
- **0.1% (6) identified as Multi-racial**, and for context, 1.6% of County residents identify as Two or More Races;
- **2.1% (96) were recorded as Other race and ethnicity**;
- **5.2% (237) identified as Asian or Pacific Islander**, and for context, 7.1% of County residents identify as Asian, Pacific Islander, or Native Hawaiian;
- **18.1% (820) identified as Black**, and for context, 18.7% of County residents identify as Black;
- **25.6% (1,159) identified as White**, and for context, 28.9% of County residents identify as White; and
- **46.0% (2,082) identified as Hispanic**, and for context, 43.3% of County residents identify as Hispanic.

^{xxx} Race and ethnicity totals do not sum to Total Precinct Deaths because 121 deaths do not have race and ethnicity data available.

^{xxxx} County-level race and ethnicity data are derived from US Census Bureau Population Estimates.

APPENDIX A

| Total COVID-19 Tests Administered by Zip Code Ordered by Tests Administered, January 1, 2020 – May 23, 2021 | | | | | | | |
|--|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|
| Zip Code | Tests Administered | Zip Code | Tests Administered | Zip Code | Tests Administered | Zip Code | Tests Administered |
| 77565 | 221 | 77029 | 14,895 | 77504 | 28,136 | 77099 | 39,724 |
| 77362 | 253 | 77069 | 14,982 | 77017 | 28,388 | 77502 | 39,883 |
| 77381 | 273 | 77085 | 15,251 | 77532 | 28,865 | 77388 | 41,012 |
| 77382 | 332 | 77587 | 15,314 | 77056 | 29,015 | 77064 | 41,388 |
| 77380 | 440 | 77011 | 15,720 | 77598 | 29,135 | 77088 | 41,636 |
| 77354 | 694 | 77033 | 15,921 | 77079 | 29,369 | 77015 | 42,502 |
| 77507 | 756 | 77003 | 15,934 | 77081 | 29,459 | 77008 | 44,220 |
| 77010 | 770 | 77447 | 15,965 | 77041 | 29,744 | 77054 | 45,126 |
| 77355 | 868 | 77058 | 15,997 | 77047 | 30,135 | 77024 | 45,214 |
| 77477 | 874 | 77026 | 16,566 | 77505 | 30,411 | 77070 | 45,361 |
| 77386 | 1,094 | 77059 | 17,650 | 77093 | 30,530 | 77055 | 45,367 |
| 77535 | 1,106 | 77067 | 19,315 | 77045 | 30,653 | 77072 | 46,358 |
| 77489 | 1,138 | 77098 | 20,347 | 77042 | 30,815 | 77044 | 47,132 |
| 77581 | 1,473 | 77039 | 20,633 | 77025 | 31,081 | 77338 | 47,288 |
| 77357 | 1,533 | 77086 | 20,839 | 77035 | 31,684 | 77373 | 49,107 |
| 77053 | 1,650 | 77022 | 21,167 | 77087 | 31,687 | 77082 | 49,362 |
| 77498 | 1,705 | 77020 | 21,397 | 77506 | 32,321 | 77007 | 50,832 |
| 77046 | 2,152 | 77048 | 21,425 | 77065 | 32,395 | 77036 | 50,938 |
| 77365 | 2,276 | 77027 | 21,666 | 77019 | 32,527 | 77089 | 54,312 |
| 77407 | 2,319 | 77043 | 21,740 | 77096 | 33,030 | 77077 | 55,082 |
| 77584 | 2,356 | 77062 | 22,196 | 77080 | 33,068 | 77493 | 55,365 |
| 77573 | 2,441 | 77076 | 22,429 | 77520 | 33,139 | 77375 | 57,822 |
| 77546 | 3,212 | 77030 | 22,443 | 77006 | 33,239 | 77450 | 59,100 |
| 77494 | 3,253 | 77038 | 22,692 | 77034 | 33,557 | 77521 | 59,171 |
| 77050 | 3,335 | 77061 | 22,706 | 77073 | 33,623 | 77083 | 64,226 |
| 77562 | 6,971 | 77091 | 22,899 | 77075 | 33,674 | 77396 | 65,100 |
| 77094 | 8,054 | 77060 | 23,121 | 77389 | 34,113 | 77346 | 69,143 |
| 77484 | 8,076 | 77586 | 23,149 | 77377 | 34,140 | 77095 | 70,213 |
| 77068 | 8,597 | 77014 | 24,569 | 77090 | 35,150 | 77379 | 71,633 |
| 77547 | 8,834 | 77021 | 24,901 | 77057 | 35,348 | 77429 | 79,487 |
| 77336 | 10,822 | 77016 | 24,933 | 77074 | 35,570 | 77084 | 88,304 |
| 77078 | 11,117 | 77066 | 25,026 | 77536 | 36,157 | 77433 | 92,199 |
| 77013 | 11,485 | 77092 | 25,098 | 77049 | 36,669 | 77005 | 113,001 |
| 77031 | 11,985 | 77345 | 25,589 | 77002 | 36,831 | 77449 | 119,116 |
| 77523 | 12,497 | 77023 | 25,663 | 77571 | 37,494 | | |
| 77032 | 12,982 | 77071 | 25,980 | 77009 | 38,477 | | |
| 77028 | 13,017 | 77401 | 26,085 | 77063 | 38,515 | | |
| 77037 | 13,235 | 77503 | 27,230 | 77004 | 38,563 | | |
| 77012 | 14,016 | 77530 | 27,339 | 77339 | 39,478 | | |
| 77051 | 14,681 | 77018 | 27,833 | 77040 | 39,501 | | |

APPENDIX B

Total COVID-19 Confirmed Positive Cases by Zip Code Ordered by Positive Cases, January 1, 2020 – May 23, 2021

| Zip Code | Positive Cases | Zip Code | Positive Cases | Zip Code | Positive Cases | Zip Code | Positive Cases |
|----------|----------------|----------|----------------|----------|----------------|----------|----------------|
| 77362 | 1 | 77547 | 1,126 | 77504 | 2,488 | 77083 | 3,872 |
| 77381 | 1 | 77027 | 1,202 | 77033 | 2,490 | 77493 | 3,872 |
| 77355 | 2 | 77058 | 1,279 | 77377 | 2,500 | 77055 | 3,980 |
| 77382 | 2 | 77339 | 1,321 | 77389 | 2,535 | 77077 | 3,983 |
| 77565 | 2 | 77006 | 1,389 | 77091 | 2,598 | 77081 | 3,987 |
| 77535 | 4 | 77031 | 1,419 | 77067 | 2,632 | 77506 | 4,002 |
| 77354 | 6 | 77051 | 1,462 | 77042 | 2,665 | 77060 | 4,029 |
| 77386 | 8 | 77056 | 1,508 | 77014 | 2,697 | 77082 | 4,053 |
| 77380 | 11 | 77078 | 1,508 | 77065 | 2,715 | 77075 | 4,064 |
| 77357 | 16 | 77586 | 1,521 | 77503 | 2,715 | 77338 | 4,098 |
| 77573 | 17 | 77062 | 1,525 | 77020 | 2,753 | 77049 | 4,118 |
| 77498 | 25 | 77025 | 1,569 | 77047 | 2,811 | 77034 | 4,120 |
| 77365 | 27 | 77013 | 1,624 | 77532 | 2,818 | 77064 | 4,134 |
| 77407 | 44 | 77028 | 1,641 | 77066 | 2,851 | 77080 | 4,214 |
| 77507 | 46 | 77019 | 1,653 | 77057 | 2,858 | 77040 | 4,263 |
| 77010 | 49 | 77032 | 1,669 | 77035 | 2,872 | 77087 | 4,314 |
| 77584 | 54 | 77054 | 1,676 | 77063 | 2,912 | 77375 | 4,491 |
| 77523 | 73 | 77053 | 1,700 | 77092 | 2,932 | 77502 | 4,616 |
| 77581 | 111 | 77598 | 1,745 | 77016 | 2,935 | 77044 | 4,665 |
| 77046 | 128 | 77048 | 1,841 | 77022 | 2,975 | 77073 | 4,772 |
| 77477 | 159 | 77587 | 1,898 | 77041 | 3,037 | 77099 | 4,791 |
| 77484 | 217 | 77018 | 1,934 | 77450 | 3,075 | 77373 | 4,834 |
| 77050 | 386 | 77085 | 2,026 | 77571 | 3,084 | 77093 | 5,216 |
| 77494 | 421 | 77021 | 2,033 | 77007 | 3,112 | 77396 | 5,254 |
| 77489 | 525 | 77011 | 2,045 | 77536 | 3,140 | 77521 | 5,264 |
| 77094 | 578 | 77004 | 2,059 | 77039 | 3,145 | 77072 | 5,293 |
| 77562 | 657 | 77026 | 2,129 | 77023 | 3,182 | 77088 | 5,295 |
| 77336 | 709 | 77029 | 2,140 | 77086 | 3,233 | 77095 | 5,370 |
| 77345 | 785 | 77096 | 2,157 | 77090 | 3,284 | 77089 | 5,584 |
| 77068 | 842 | 77002 | 2,163 | 77038 | 3,308 | 77346 | 5,640 |
| 77401 | 855 | 77037 | 2,210 | 77045 | 3,314 | 77015 | 5,682 |
| 77059 | 864 | 77043 | 2,242 | 77530 | 3,458 | 77379 | 5,710 |
| 77030 | 906 | 77505 | 2,309 | 77009 | 3,498 | 77429 | 5,850 |
| 77098 | 951 | 77012 | 2,310 | 77520 | 3,535 | 77036 | 6,387 |
| 77546 | 1,025 | 77079 | 2,385 | 77076 | 3,616 | 77433 | 7,146 |
| 77005 | 1,095 | 77024 | 2,387 | 77074 | 3,677 | 77084 | 10,500 |
| 77447 | 1,098 | 77071 | 2,409 | 77017 | 3,738 | 77449 | 11,623 |
| 77069 | 1,104 | 77061 | 2,426 | 77388 | 3,740 | | |
| 77003 | 1,126 | 77008 | 2,437 | 77070 | 3,867 | | |

APPENDIX C

| Total Confirmed COVID-19 Related Deaths by Zip Code Ordered by Number of Deaths, January 1, 2020 – May 23, 2021 | | | | | | | |
|--|--------------|----------|--------------|----------|--------------|----------|--------------|
| Zip Code | COVID Deaths | Zip Code | COVID Deaths | Zip Code | COVID Deaths | Zip Code | COVID Deaths |
| 77010 | 0-5 | 77336 | 8 | 77571 | 25 | 77035 | 46 |
| 77046 | 0-5 | 77345 | 8 | 77047 | 26 | 77012 | 48 |
| 77050 | 0-5 | 77546 | 8 | 77018 | 27 | 77061 | 48 |
| 77069 | 0-5 | 77002 | 9 | 77450 | 27 | 77034 | 49 |
| 77094 | 0-5 | 77007 | 9 | 77598 | 27 | 77074 | 49 |
| 77354 | 0-5 | 77066 | 9 | 77008 | 28 | 77091 | 50 |
| 77355 | 0-5 | 77065 | 10 | 77433 | 28 | 77023 | 52 |
| 77357 | 0-5 | 77389 | 10 | 77506 | 28 | 77081 | 52 |
| 77362 | 0-5 | 77547 | 11 | 77530 | 29 | 77015 | 54 |
| 77365 | 0-5 | 77058 | 12 | 77053 | 30 | 77064 | 54 |
| 77380 | 0-5 | 77086 | 13 | 77070 | 30 | 77075 | 54 |
| 77381 | 0-5 | 77388 | 14 | 77044 | 31 | 77063 | 55 |
| 77382 | 0-5 | 77013 | 15 | 77004 | 33 | 77504 | 55 |
| 77386 | 0-5 | 77562 | 15 | 77028 | 35 | 77076 | 56 |
| 77407 | 0-5 | 77056 | 16 | 77038 | 35 | 77493 | 56 |
| 77447 | 0-5 | 77078 | 16 | 77090 | 35 | 77080 | 58 |
| 77477 | 0-5 | 77079 | 16 | 77039 | 36 | 77011 | 59 |
| 77484 | 0-5 | 77429 | 16 | 77021 | 37 | 77045 | 59 |
| 77498 | 0-5 | 77536 | 16 | 77043 | 37 | 77017 | 60 |
| 77507 | 0-5 | 77003 | 17 | 77057 | 37 | 77020 | 60 |
| 77523 | 0-5 | 77031 | 17 | 77092 | 38 | 77082 | 60 |
| 77535 | 0-5 | 77032 | 17 | 77029 | 39 | 77521 | 60 |
| 77565 | 0-5 | 77067 | 18 | 77033 | 39 | 77016 | 63 |
| 77573 | 0-5 | 77379 | 18 | 77084 | 39 | 77083 | 63 |
| 77581 | 0-5 | 77587 | 18 | 77503 | 39 | 77089 | 63 |
| 77584 | 0-5 | 77096 | 20 | 77040 | 40 | 77520 | 63 |
| 77005 | 6 | 77024 | 21 | 77373 | 42 | 77009 | 64 |
| 77027 | 6 | 77377 | 21 | 77375 | 42 | 77099 | 64 |
| 77401 | 6 | 77025 | 22 | 77532 | 42 | 77093 | 67 |
| 77006 | 7 | 77051 | 22 | 77014 | 43 | 77022 | 74 |
| 77054 | 7 | 77037 | 23 | 77026 | 43 | 77088 | 75 |
| 77059 | 7 | 77071 | 23 | 77049 | 43 | 77055 | 76 |
| 77068 | 7 | 77062 | 24 | 77060 | 43 | 77338 | 77 |
| 77489 | 7 | 77073 | 24 | 77077 | 43 | 77449 | 77 |
| 77494 | 7 | 77505 | 24 | 77339 | 43 | 77087 | 79 |
| 77586 | 7 | 77041 | 25 | 77396 | 43 | 77036 | 88 |
| 77019 | 8 | 77042 | 25 | 77502 | 43 | 77072 | 97 |
| 77030 | 8 | 77048 | 25 | 77095 | 44 | | |
| 77098 | 8 | 77085 | 25 | 77346 | 45 | | |

APPENDIX D

Number of Individuals Per 100,000 Residents Vaccinated With at Least One Dose and Social Vulnerability Index (SVI), Ordered by Residents Vaccinated, December 14, 2020 – May 23, 2021^{xxxii}

| Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI |
|----------|---------------|------|----------|---------------|------|----------|---------------|------|----------|---------------|------|
| 77060 | 25,533 | 0.94 | 77074 | 35,137 | 0.86 | 77066 | 40,945 | 0.59 | 77041 | 53,221 | 0.31 |
| 77013 | 26,900 | 0.98 | 77598 | 35,145 | 0.57 | 77040 | 41,004 | 0.55 | 77018 | 53,866 | 0.48 |
| 77090 | 28,021 | 0.70 | 77532 | 35,170 | 0.37 | 77065 | 41,330 | 0.43 | 77089 | 54,134 | 0.47 |
| 77506 | 28,264 | 0.95 | 77073 | 35,358 | 0.50 | 77004 | 41,665 | 0.53 | 77077 | 54,836 | 0.29 |
| 77083 | 28,415 | 0.53 | 77012 | 35,376 | 0.99 | 77085 | 41,896 | 0.60 | 77009 | 55,188 | 0.62 |
| 77067 | 28,995 | 0.79 | 77587 | 35,440 | 0.91 | 77505 | 41,932 | 0.24 | 77054 | 57,792 | 0.26 |
| 77081 | 29,093 | 0.81 | 77015 | 35,505 | 0.76 | 77023 | 42,192 | 0.76 | 77079 | 58,280 | 0.27 |
| 77078 | 31,017 | 0.89 | 77502 | 36,204 | 0.89 | 77063 | 42,296 | 0.57 | 77003 | 59,650 | 0.61 |
| 77076 | 31,368 | 0.86 | 77086 | 36,380 | 0.78 | 77449 | 42,517 | 0.36 | 77433 | 59,718 | 0.11 |
| 77050 | 31,586 | 0.71 | 77396 | 36,473 | 0.51 | 77044 | 43,197 | 0.41 | 77025 | 61,527 | 0.32 |
| 77039 | 31,823 | 0.73 | 77338 | 36,511 | 0.58 | 77047 | 43,280 | 0.55 | 77493 | 63,968 | 0.34 |
| 77093 | 31,917 | 0.97 | 77571 | 36,614 | 0.38 | 77084 | 43,405 | 0.36 | 77389 | 64,251 | 0.14 |
| 77503 | 32,042 | 0.82 | 77028 | 36,649 | 0.84 | 77011 | 43,538 | 0.96 | 77401 | 65,674 | 0.03 |
| 77336 | 32,469 | 0.30 | 77031 | 36,804 | 0.64 | 77064 | 43,679 | 0.47 | 77005 | 67,988 | 0.03 |
| 77014 | 32,514 | 0.78 | 77504 | 36,880 | 0.88 | 77071 | 43,697 | 0.68 | 77059 | 69,541 | 0.05 |
| 77036 | 32,670 | 0.93 | 77075 | 36,977 | 0.61 | 77070 | 43,724 | 0.49 | 77094 | 70,031 | 0.00 |
| 77450 | 32,843 | 0.18 | 77099 | 37,077 | 0.80 | 77082 | 44,175 | 0.54 | 77006 | 72,093 | 0.09 |
| 77447 | 32,854 | 0.45 | 77020 | 37,275 | 0.89 | 77055 | 44,485 | 0.68 | 77019 | 75,562 | 0.09 |
| 77037 | 32,957 | 0.69 | 77080 | 37,428 | 0.83 | 77346 | 44,986 | 0.12 | 77007 | 76,494 | 0.01 |
| 77091 | 33,112 | 0.92 | 77339 | 37,964 | 0.32 | 77388 | 45,238 | 0.13 | 77008 | 77,969 | 0.08 |
| 77026 | 33,521 | 0.94 | 77373 | 38,003 | 0.30 | 77377 | 45,745 | 0.24 | 77002 | 79,324 | 0.42 |
| 77034 | 33,680 | 0.67 | 77536 | 38,249 | 0.44 | 77429 | 45,957 | 0.06 | 77098 | 85,615 | 0.07 |
| 77520 | 33,770 | 0.82 | 77022 | 38,257 | 0.97 | 77095 | 46,162 | 0.23 | 77024 | 89,869 | 0.16 |
| 77061 | 33,772 | 0.70 | 77045 | 38,381 | 0.84 | 77068 | 46,529 | 0.43 | 77027 | 98,391 | 0.01 |
| 77092 | 33,926 | 0.75 | 77032 | 38,501 | 0.99 | 77586 | 46,810 | 0.18 | 77010 | 105,684 | 0.02 |
| 77033 | 34,137 | 0.93 | 77035 | 38,843 | 0.74 | 77069 | 48,341 | 0.22 | 77056 | 128,661 | 0.14 |
| 77016 | 34,250 | 0.89 | 77017 | 39,444 | 0.66 | 77345 | 48,445 | 0.05 | 77046 | 153,093 | 0.10 |
| 77562 | 34,306 | 0.63 | 77029 | 39,895 | 0.88 | 77058 | 49,607 | 0.46 | 77030 | 174,897 | 0.28 |
| 77521 | 34,473 | 0.64 | 77042 | 39,960 | 0.38 | 77379 | 50,214 | 0.21 | | | |
| 77038 | 34,491 | 0.50 | 77087 | 39,963 | 1.00 | 77043 | 50,371 | 0.52 | | | |
| 77051 | 34,676 | 0.80 | 77021 | 40,158 | 0.74 | 77057 | 51,035 | 0.34 | | | |
| 77547 | 34,822 | 0.66 | 77072 | 40,265 | 0.87 | 77062 | 51,449 | 0.19 | | | |
| 77088 | 34,914 | 0.77 | 77049 | 40,463 | 0.63 | 77096 | 52,063 | 0.39 | | | |
| 77530 | 34,940 | 0.59 | 77048 | 40,850 | 0.85 | 77375 | 52,869 | 0.45 | | | |

^{xxxii} Table excludes data for zip codes with large portions of Census Tracts in another County.

The Harris County Commissioners Court's Analyst's Office provides the Harris County Commissioners Court members with objective, nonpartisan, and timely fiscal and policy analysis related to the efficiency and effectiveness of various County operations.

This memo was prepared by Amy Rose, Senior Analyst, and Ramin Naderi, Analyst.

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