

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, and Michelle Galindo with Precinct Two;
Barbie Robinson, Gwen Sims, and Will Hudson with Harris County
Public Health
Date: September 14, 2021
Re: **Monthly Memo on COVID-19 Vaccine Distribution, September 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 ninth memo of a standing monthly memo the Analyst's Office produces 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 August 30, 2021, **48.2% (2,270,241) of individuals in Harris County were fully vaccinated.**
- As of August 30, 2021, **10.6% (498,460) of individuals in Harris County were partially vaccinated.**
- Between August 8, 2021 and August 30, 2021, **the percentage of individuals in Harris County vaccinated with at least one dose increased by 18.8% (from 2,330,136 to 2,768,701).**
- Between August 8, 2021 and August 30, 2021, **the percentage of individuals in Harris County fully vaccinated increased by 6.6% (from 2,129,163 to 2,270,241).**
- **Zip codes 77013 and 77090 have the fewest number of individuals per 100,000 residents fully vaccinated (31,406 and 33,237, respectively).**
- **Zip codes 77024 and 77002 have the greatest number of individuals per 100,000 residents fully vaccinated (92,749 and 96,588, 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 fully vaccinated is \$41,804.**

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 Zip code analysis excludes zip codes that report a greater number of residents vaccinated than the zip code's total population. This discrepancy is due to poor and limited data.

- The median of the median incomes of the fifteen Harris County zip codes with **the greatest number of individuals per 100,000 residents fully vaccinated is \$114,338.**
- The number of individuals fully vaccinated in Harris County varies by age group.
 - **74.6% (143,292) of individuals ages 75 and over are fully vaccinated;**
 - **74.9% (427,750) of individuals ages 60-74 are fully vaccinated;**
 - **68.2% (573,858) of individuals ages 45-59 are fully vaccinated;**
 - **56.0% (587,401) of individuals ages 30-44 are fully vaccinated; and**
 - **45.1% (540,390) of individuals ages 12-29 are fully vaccinated.**
- The number of individuals fully vaccinated in Harris County varies by race and ethnicity.
 - **28.9% (253,325) of individuals who identify as Black are fully vaccinated;**
 - **39.8% (809,139) of individuals who identify as Hispanic are fully vaccinated;**
 - **45.3% (615,218) of individuals who identify as White are fully vaccinated;**
 - **58.7% (194,635) of individuals who identify as Asian American/Pacific Islander are fully vaccinated; and**
 - **74.4% (5,437) of individuals who identify as American Indian/Alaskan Natives are fully vaccinated.**
- Between January 1, 2020 and August 30, 2021:
 - **All providers in Harris County administered a cumulative 5,414,868 COVID-19 PCR tests;ⁱⁱⁱ**
 - **There were 500,802 positive COVID-19 cases confirmed by a PCR test in Harris County; and**
 - **There were 5,324 confirmed COVID-19-related deaths in Harris County.**

The Analyst's Office acknowledges Harris County Public Health and the Harris County Office of Management and Budget for their significant contributions to this memo.

ⁱⁱⁱ PCR refers to the polymerase chain reaction or nucleic acid amplification 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 and administration of COVID-19 vaccinations in Harris County. This is the ninth memo of a standing monthly memo the Analyst's Office produces as the vaccine distribution continues to evolve at the federal, state, and local levels.

This memo includes data and analysis regarding COVID-19 testing, cases, deaths, and vaccine administration in Harris County. Precinct-level age, race, and ethnicity data are provided where available.

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 August 30, 2021, and all testing, confirmed cases, and COVID-19-related death data from January 1, 2020 through August 30, 2021.

Prior to the ninth version of this memo, which was circulated on September 14, 2021, this memo presented data from all county providers and HCPH separately in Figures 4 and 5 and corresponding Tables 2 and 3. However, moving forward, this memo will represent the data as a combined total.

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 analyzes vaccine data received by the Texas Department of State Health Services (DSHS) ImmTrac2 system. As the Local Health Authority for the County, HCPH also analyzes and receives testing, confirmed cases, and COVID-19-related death data from local health providers (including the City of Houston) and other sources. Income data provided by HCPH reflects American Community Survey, 2014-2018 Five-Year Estimates. HCPH data and/or analysts 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.

Prior to the fifth version of this memo, which was circulated on June 3, 2021, this memo included 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 distributing weekly allocations of vaccine doses to providers due to a "sufficient

supply of vaccine.”^{iv} Due to this changed strategy of allocating vaccines, this memo no longer provides updates and projections on vaccine allocations to the State of Texas or Harris County.

In late summer 2021, discussion of the need for a third shot for select recipients of the two-dose vaccines started to evolve nationally, and individuals started to receive third doses. Currently, DSHS reportedly does not track administered third shots in the State of Texas. This will be resolved and reported in the next iteration of this memo.

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

The Analyst’s Office collected information 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 the 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 commissioner precinct zip code data from Harris County’s Applied Technologies Location Analysis and Statistics (ATLAS) System.

Data Collected from Harris County Office of Management and Budget

The Analyst’s Office collected commissioner precinct race and ethnicity data from the Harris County Office of Management and Budget.

NOTE: All analyses in this memo, except **Figure 3**, reflect *individuals fully vaccinated*, rather than *individuals with at least one dose*.

^{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>

^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, the 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 by the US Food and Drug Administration (FDA). In February 2021, the FDA authorized Johnson & Johnson's (J&J) one-dose vaccine for emergency use. On August 23, 2021, the FDA granted full approval to the Pfizer-BioNTech vaccine for those 16 and older, with continued availability for those 12-15 years of age under emergency use authorization. The Pfizer-BioNTech vaccine is currently the only vaccine approved by the FDA not under emergency use authorization.^{vi}

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").^{vii} ^{viii} 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.^{ix} On August 12, 2021, the FDA amended the emergency use authorizations for the Moderna and Pfizer-BioNTech vaccines to allow for an additional third dose, a "booster," to be administered to immunocompromised individuals.^x

In late summer 2021, Harris County and the City of Houston launched separate cash card incentive programs for individuals to receive their first dose of vaccination. The Harris County program was launched on August 17, 2021, and offers \$100 cash cards to residents who receive their first dose of the COVID-19 vaccine between August 17 - September 14, 2021, at any authorized provider in the County.^{xi} Similarly, the City of Houston launched a cash card incentive program on August 26, 2021, stating that the first 20,000 individuals to get fully vaccinated at an eligible health department site would receive \$150 in the form of cash cards; \$100 cash card for their first dose, and an additional \$50 cash card for their second dose.^{xii}

^{vi} *FDA Approves First COVID-19 Vaccine*. (August 23, 2021). US Food and Drug Administration. Retrieved August 30, 2021 from <https://www.fda.gov/news-events/press-announcements/fda-approves-first-covid-19-vaccine>

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

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

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

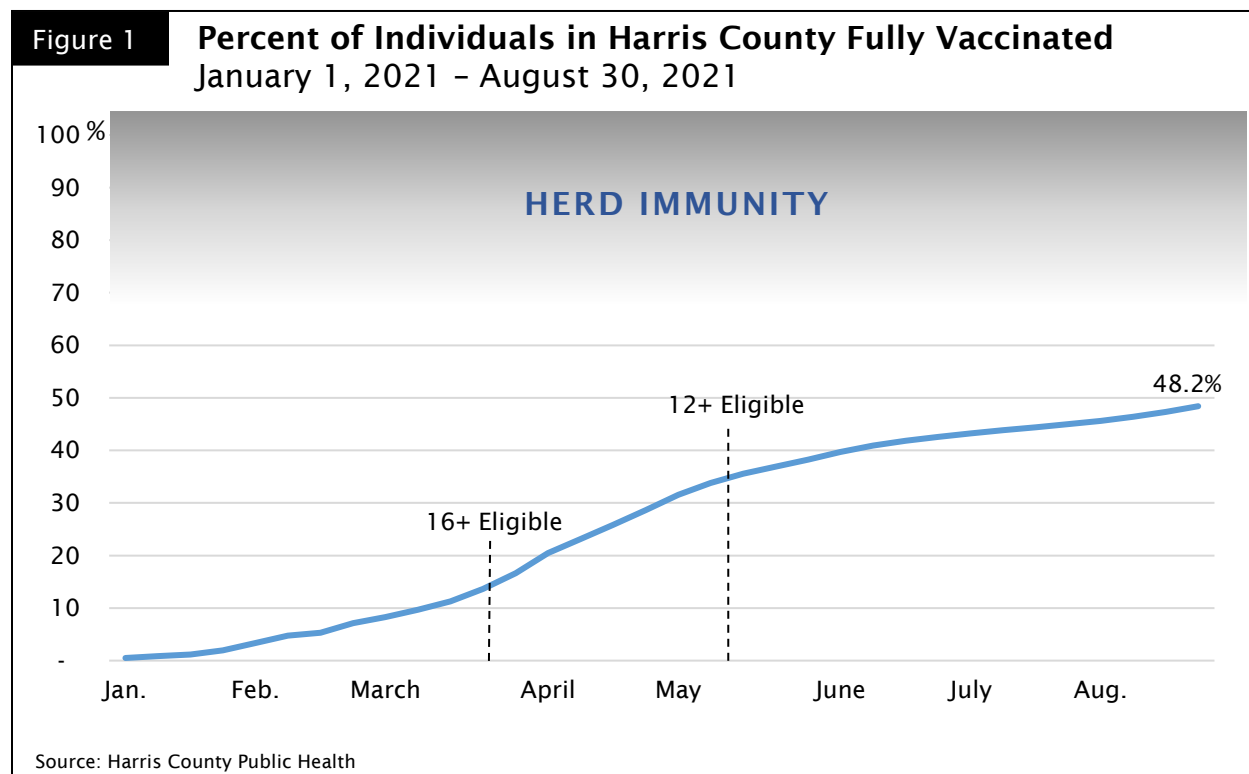
^x *FDA Authorizes Additional Vaccine Dose for Certain Immunocompromised Individuals*. (August 12, 2021). US Food and Drug Administration. Retrieved August 30, 2021 from <https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-additional-vaccine-dose-certain-immunocompromised>

^{xi} *Ready Harris*. (n.d.). Retrieved September 8, 2021, from <https://www.readyharris.org/COVID-19-Incentive-Program>

^{xii} *Houston Health Department to provide up to \$150 in gift cards for COVID-19 vaccinations*. (n.d.). Retrieved September 8, 2021, from <https://www.houstontx.gov/health/NewsReleases/houston-health-department-to-provide-up-to-150-in-gift-cards-for-covid-19-vaccinations.html>

INDIVIDUALS IN HARRIS COUNTY FULLY VACCINATED

Figure 1 presents the percentage of Harris County individuals fully vaccinated between January 1, 2021 and August 30, 2021.^{xiii} This figure includes individuals vaccinated by Harris County Public Health (HCPH) and all other providers. HCPH reports countywide data regarding individuals fully vaccinated by week—the data presented below extends through the week of August 23 – August 30, 2021.



On March 29, 2021, as shown in **Figure 1**, 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.

As of August 30, 2021, 48.2% (2,270,241) of all 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.^{xiv} This reflects a 6.6% (from 2,129,163 to 2,270,241) increase from August 8, 2021 (the prior memo).

A total of 10.6% (498,460) of all individuals in Harris County were partially vaccinated as of August 30, 2021.^{xv}

^{xiii} Individuals who are partially vaccinated and individuals fully vaccinated are mutually exclusive, meaning individuals partially vaccinated only includes individuals who have received one vaccine dose of a two-dose shot (Pfizer or Moderna) and individuals fully vaccinated include individuals who have received either the Johnson & Johnson vaccine or two vaccine doses of Pfizer or Moderna.

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

^{xv} 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 FULLY VACCINATED BY ZIP CODE

Table 1 presents the number of individuals per 100,000 residents fully vaccinated 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 a disaster (such as a hurricane or disease outbreak).^{xvi} SVI rankings are based on percentiles ranging 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); 0.25-0.5 (moderate low); 0.50-0.75 (moderate high); and 0.75-1 (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 fully vaccinated is \$41,804**. The median of the median incomes of the fifteen Harris County zip codes with the **greatest number of individuals per 100,000 residents fully vaccinated is \$114,338**.^{xvii xviii}

This analysis excludes zip codes 77010, 77027, 77056, 77046, and 77030 because they report higher vaccinated populations than the reported zip code population. HCPH suggests that this 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.

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

^{xvii} Note: This analysis excludes zip codes with vaccination rates higher than the reported zip code population. HCPH suggests that this 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.

^{xviii} Analysis excludes zip codes with small percentage of land mass in Harris County and zip code 77507, which has no income data available.

Table 1

Number of Individuals Per 100,000 Residents Fully Vaccinated by Zip Code, Median Income, SVI, and Commissioner Precinct December 14, 2020 – August 30, 2021

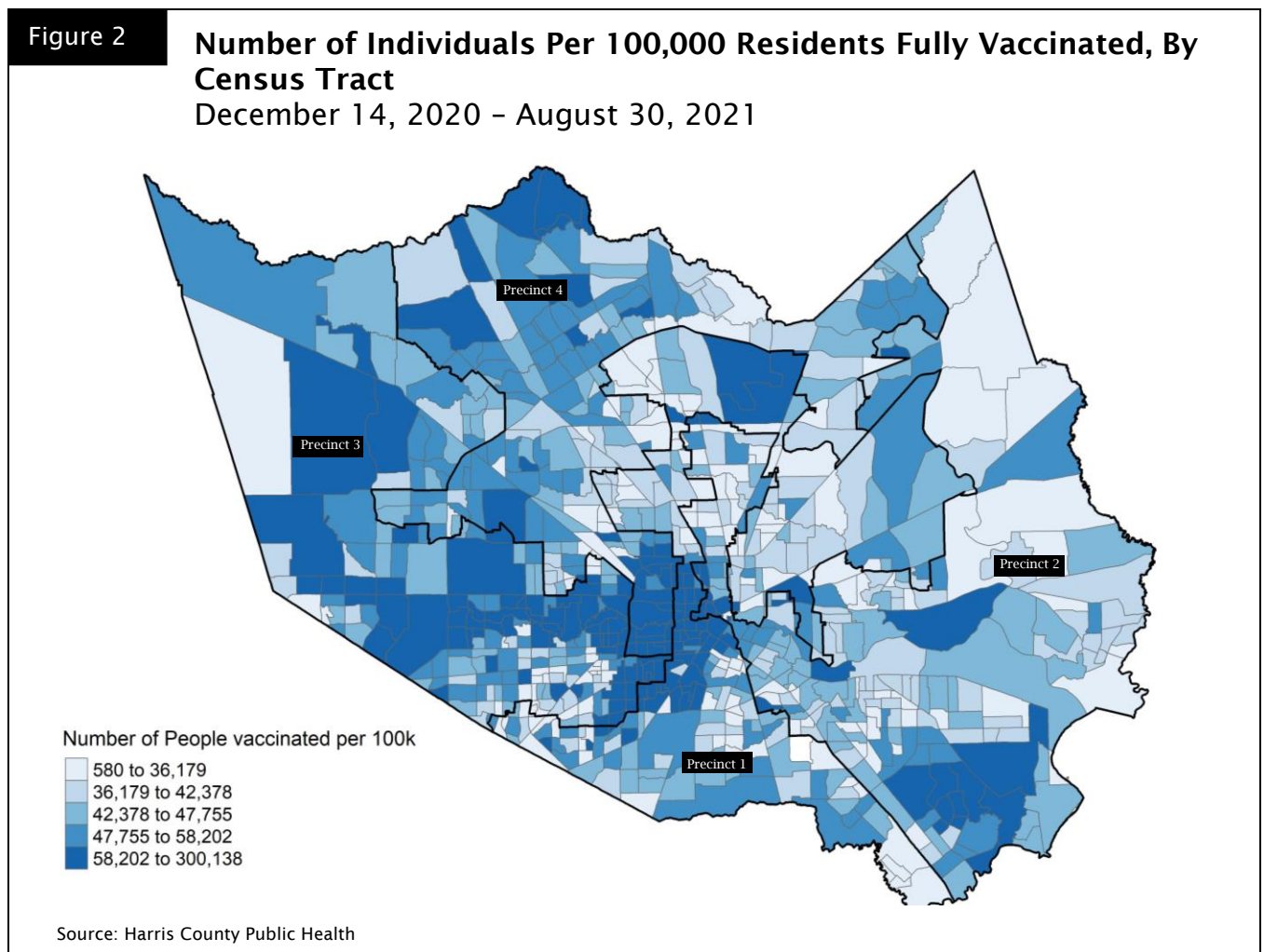
| Zip Codes With Fewest Number of Individuals Per 100,000 Residents Fully Vaccinated | | | | |
|--|-----------------|---------------|------|--------------------------|
| Zip Code | Number Per 100k | Median Income | SVI | Commissioner Precinct(s) |
| 77013 | 31,406 | \$38,665 | 0.98 | 2,1 |
| 77090 | 33,237 | \$39,808 | 0.70 | 1,4 |
| 77060 | 33,347 | \$31,006 | 0.94 | 1,2,4 |
| 77067 | 33,819 | \$43,282 | 0.79 | 4,1 |
| 77506 | 34,272 | \$41,804 | 0.95 | 2 |
| 77336 | 35,391 | \$68,596 | 0.30 | 2,4 |
| 77078 | 35,845 | \$40,298 | 0.89 | 1,2 |
| 77081 | 35,894 | \$33,502 | 0.81 | 3 |
| 77076 | 36,644 | \$38,346 | 0.86 | 2,1 |
| 77050 | 36,707 | \$48,500 | 0.71 | 1,2 |
| 77503 | 37,583 | \$51,312 | 0.82 | 2 |
| 77562 | 37,678 | \$59,792 | 0.63 | 2 |
| 77014 | 37,770 | \$50,938 | 0.78 | 1,4 |
| 77039 | 38,122 | \$36,769 | 0.73 | 2,1 |
| 77547 | 38,203 | \$46,176 | 0.66 | 2,1 |
| Zip Codes With Greatest Number of Individuals Per 100,000 Residents Fully Vaccinated | | | | |
| Zip Code | Number Per 100k | Median Income | SVI | Commissioner Precinct(s) |
| 77025 | 62,732 | \$76,772 | 0.32 | 1,3 |
| 77003 | 64,672 | \$72,295 | 0.61 | 2,1 |
| 77433 | 66,386 | \$112,468 | 0.11 | 3 |
| 77401 | 66,452 | \$193,950 | 0.03 | 3 |
| 77005 | 68,174 | \$192,380 | 0.03 | 3,1 |
| 77389 | 69,179 | \$126,473 | 0.14 | 4 |
| 77006 | 72,442 | \$85,956 | 0.09 | 1 |
| 77094 | 73,841 | \$178,354 | NA | 3 |
| 77059 | 73,902 | \$139,163 | 0.05 | 2 |
| 77008 | 74,941 | \$108,644 | 0.08 | 4,1 |
| 77007 | 79,390 | \$125,653 | 0.01 | 4,1,2 |
| 77098 | 88,582 | \$91,138 | 0.07 | 4,1,3 |
| 77019 | 89,043 | \$116,207 | 0.09 | 4,1 |
| 77024 | 92,749 | \$123,274 | 0.16 | 3,4 |
| 77002 | 96,588 | \$71,369 | 0.42 | 1,2 |

Highest Vulnerability
 Moderate High Vulnerability
 Moderate Low Vulnerability
 Lowest Vulnerability

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 PER 100,000 RESIDENTS FULLY VACCINATED BY CENSUS TRACT

Figure 2 presents the number of individuals per 100,000 Harris County residents fully vaccinated by census tract.

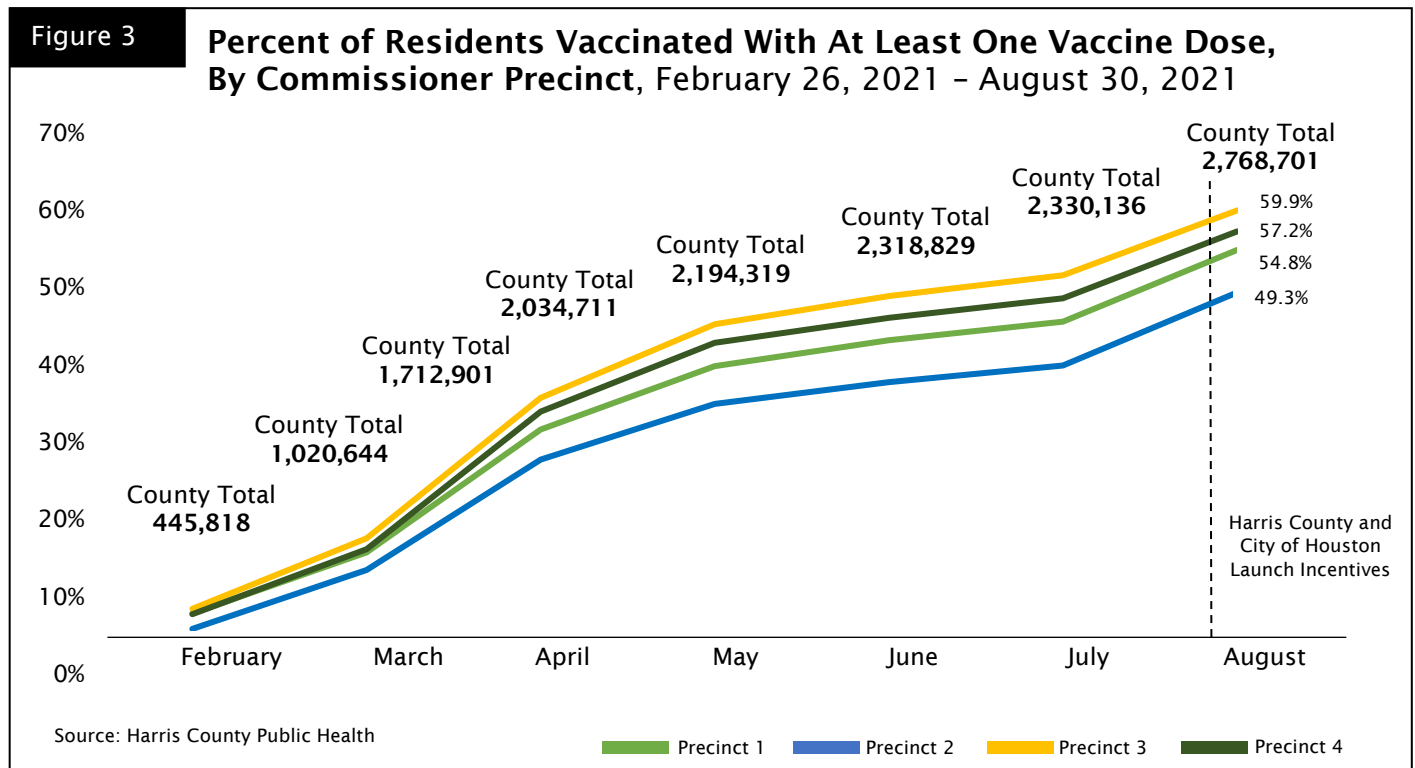


As of August 30, 2021, **48.2% (2,270,241) of Harris County residents were fully vaccinated**—58.9% of Harris County’s eligible population, individuals age 12 and older.^{xix}

^{xix} 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 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 August 30, 2021, for all four Harris County commissioner precincts.



Between February 26, 2021 and August 30, 2021, 58.7% (2,768,701) of individuals in Harris County were vaccinated with at least one vaccine dose.^{xx} There was a noticeable increase of 18.8% (from 2,330,136 to 2,768,701) between August 8, 2021 (the prior memo) and August 30, 2021, of individuals vaccinated with at least one dose.

In late summer 2021, Harris County and the City of Houston launched cash card incentive programs for individuals to receive their first dose of vaccination. The Harris County program was launched on August 17, 2021, and offers \$100 cash cards to residents who receive their first dose of the COVID-19 vaccine between August 17 – September 14, 2021, at any authorized provider in the County.^{xxi} Similarly, the City of Houston launched a cash card incentive program on August 26, 2021, stating that the first 20,000 individuals to get fully vaccinated at an eligible health department site would receive \$150 in the form of cash cards; \$100 cash card for their first dose, and an additional \$50 cash card for their second dose.^{xxii}

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

^{xxi} Ready Harris. (n.d.). Retrieved September 8, 2021, from <https://www.readyharris.org/COVID-19-Incentive-Program>

As of August 30, 2021:^{xxiii}

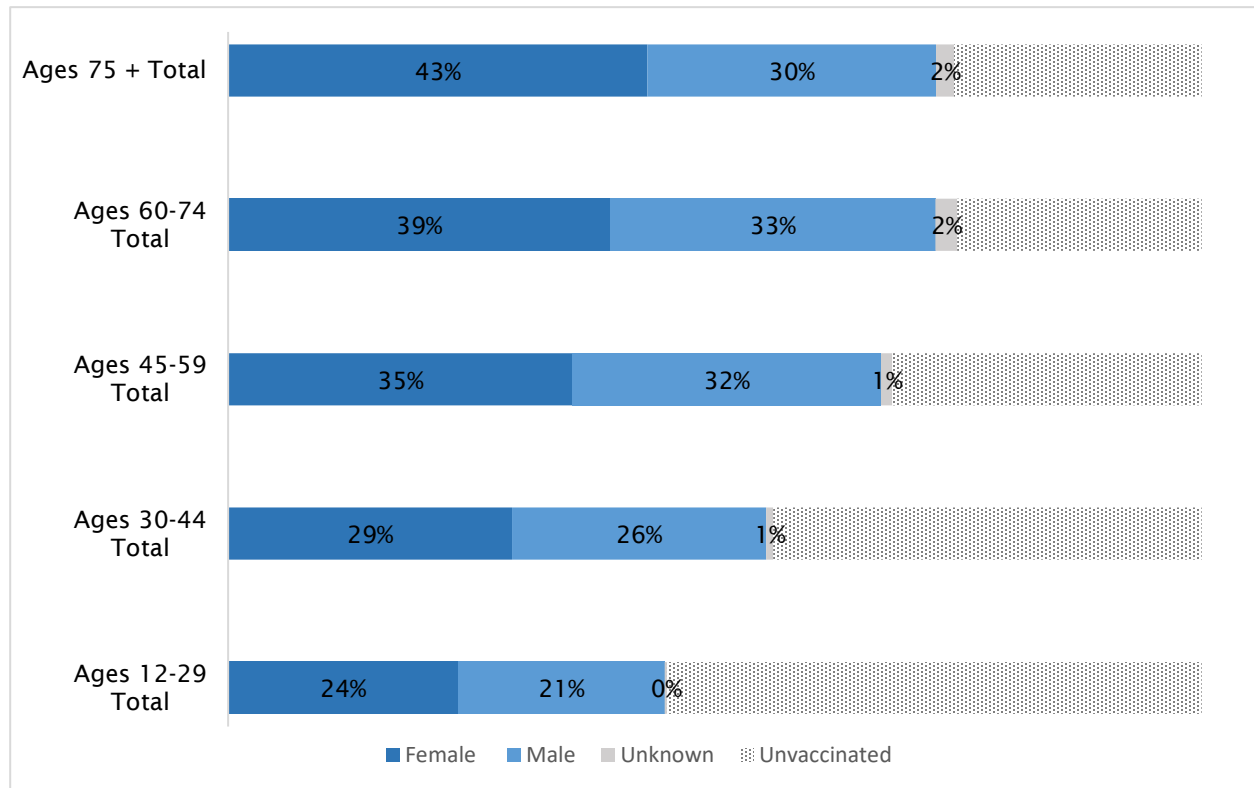
- **54.8% (630,329) of Precinct One residents** were vaccinated with at least one vaccine dose—a 19.8% increase over the prior memo;
- **49.3% (547,800) of Precinct Two residents** were vaccinated with at least one vaccine dose—a 23.1% increase over the prior memo;
- **59.9% (758,948) of Precinct Three residents** were vaccinated with at least one vaccine dose—a 15.9% increase over the prior memo; and
- **57.2% (691,645) of Precinct Four residents** were vaccinated with at least one vaccine dose—a 17.5% increase over the prior memo.

^{xxiii} Precinct totals do not sum to County total because 139,979 individuals have addresses that cannot be geo-coded into a Precinct.

FULLY VACCINATED INDIVIDUALS BY AGE AND GENDER

Figure 4 and **Table 2**, which follows, reflect all individuals fully vaccinated by all providers in Harris County by the individual's age and gender. Each bar for each age group represents the age group's total population within Harris County's population and reflects the percentage of individuals in each age group vaccinated by gender.

Figure 4 Fully Vaccinated Individuals in Harris County, By Age and Gender
December 14, 2020 – August 30, 2021



Source: Harris County Public Health

Of the individuals who are fully vaccinated by a Harris County provider, 53% (1,193,339) are female; 46% (1,042,904) are male; and 2% (36,448) are recorded as unknown gender.^{xxiv} As shown in **Figure 4**, individuals age 75 or older have the smallest percent of their age group who remain unvaccinated (25%), while individuals age 12-29 include the largest percent of their age group who remain unvaccinated (55%).

^{xxiv} Age and gender totals do not sum to the total number of fully vaccinated individuals due to some records having incomplete or incorrect data.

FULLY VACCINATED INDIVIDUALS BY AGE GROUP

Table 2 reflects all individuals fully vaccinated by all providers in Harris County by the individual's age group and includes the percentage of Harris County's total age group population vaccinated. For context, **Table 2** also includes the percentage of Harris County's total population by age group.

Table 2

| Fully Vaccinated Individuals in Harris County by Age Group December 14, 2020 – August 30, 2021 | | | |
|---|----------------------------------|---|---|
| Age Group | Number of Individuals Vaccinated | Percentage of Age Group Vaccinated ^{xxv} | Percentage of Total County Population ^{xxvi} |
| 75+ | 143,292 | 74.6% | 5.0% |
| 60-74 | 427,750 | 74.9% | 14.8% |
| 45-59 | 573,858 | 68.2% | 21.8% |
| 30-44 | 587,401 | 56.0% | 27.2% |
| 12-29 | 540,390 | 45.1% | 31.1% |

Source: Harris County Public Health

As shown in **Table 2**,

- 74.6% (143,292) of individuals ages 75 and over are fully vaccinated.
- 74.9% (427,750) of individuals ages 60-74 are fully vaccinated;
- 68.2% (573,858) of individuals ages 45-59 are fully vaccinated;
- 56.0% (587,401) of individuals ages 30-44 are fully vaccinated; and
- 45.1% (540,390) of individuals ages 12-29 are fully vaccinated.

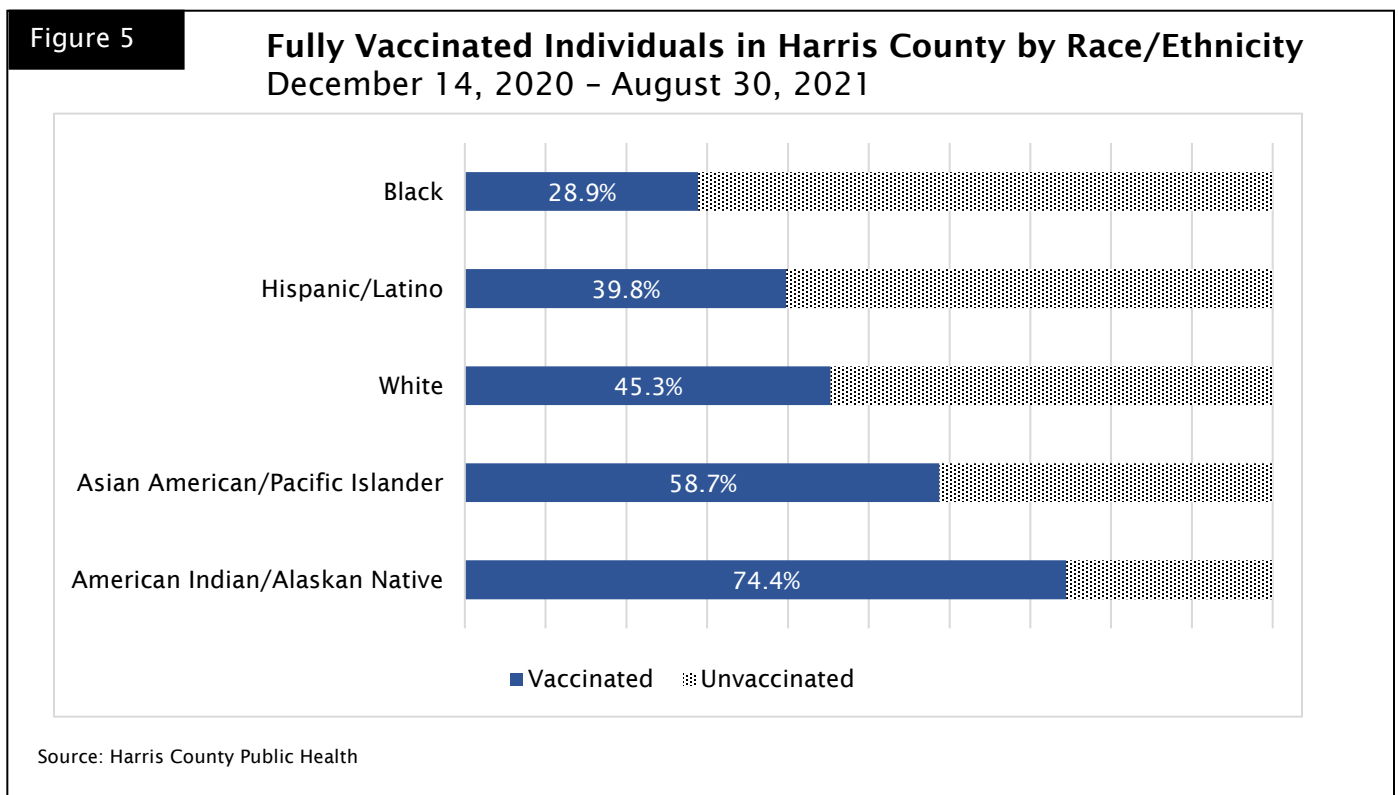
^{xxv} Reflects the number of individuals in the age group who are fully vaccinated. Previous versions of this memo reflected the total age group fully vaccinated as a percentage of all individuals vaccinated.

^{xxvi} Age group populations from American Community Survey 2019 data. Age group 12-29 is estimated by the Analyst's Office due to data limitations.

PERCENTAGE OF FULLY VACCINATED INDIVIDUALS BY RACE AND ETHNICITY

Figure 5 and **Table 3**, which follows, reflect the percentage of individuals in Harris County who are fully vaccinated by all providers in Harris County by race and ethnicity.^{xxvii}

Each bar for each race or ethnicity group represents the race or ethnicity group's total population within Harris County's population and reflects the percentage of individuals in each race and ethnicity group vaccinated.



As shown in **Figure 5**, individuals who identify as Black in Harris County have the smallest vaccinated population at nearly 29% (71% are unvaccinated or vaccinated with only one dose), followed by individuals who identify as Hispanic or Latino at nearly 40%.

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

FULLY VACCINATED INDIVIDUALS BY RACE AND ETHNICITY

Table 3 reflects the race and ethnicity of individuals in Harris County who are fully vaccinated by all providers in Harris County.^{xxviii} For context, **Table 3** also includes the percentage of Harris County's total population by race and ethnicity.

Previous versions of this table in past memos reflected the total number of individuals by race and ethnicity fully vaccinated as a percentage of all individuals vaccinated — this iteration now shows the percentage vaccinated within a given race or ethnicity.

Table 3

| Fully Vaccinated Individuals in Harris County by Race/Ethnicity December 14, 2020 – August 30, 2021 | | | |
|--|----------------------------------|---|--------------------------------|
| Race/Ethnicity | Number of Individuals Vaccinated | Percentage of Race/Ethnicity Group Vaccinated | Percentage of Total Population |
| White | 615,218 | 45.3% | 28.9% |
| Hispanic/Latino | 809,139 | 39.8% | 43.3% |
| Other/Unknown | 238,947 | NA | 0.3% |
| Black | 253,325 | 28.9% | 18.7% |
| Asian American/ Pacific Islander | 194,635 | 58.7% | 7.1% |
| Multi-racial | 156,239 | NA | 1.6% |
| American Indian/ Alaskan Native | 5,437 | 74.4% | 0.2% |

Source: Harris County Public Health

As shown in **Table 3**,^{xxix}

- 28.9% (253,325) of individuals who identify as Black are fully vaccinated;
- 39.8% (809,139) of individuals who identify as Hispanic are fully vaccinated;
- 45.3% (615,218) of individuals who identify as White are fully vaccinated;
- 58.7% (194,635) of individuals who identify as Asian American/Pacific Islander are fully vaccinated; and
- 74.4% (5,437) of individuals who identify as American Indian/Alaskan Native are fully vaccinated.

^{xxviii} 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.

^{xxix} Note: The percentage of Harris County's total race and ethnicity group population that is vaccinated for Other/Unknown and Multi-racial is unavailable because there are more vaccinated individuals identifying as Multi-racial and Other/Unknown than the total population estimate of both groups in Harris County's 2018 ACS population data.

INDIVIDUALS FULLY VACCINATED BY RACE AND ETHNICITY AND COMMISSIONER PRECINCT

Table 4 reflects the race and ethnicity of individuals in Harris County who are fully vaccinated by providers in Harris County by Commissioner Precinct. For context, **Table 4** also includes the percentage of each Commissioner Precinct's total population by race and ethnicity.

Table 4

| Fully Vaccinated Individuals in Harris County by Race/Ethnicity, By Commissioner Precinct December 14, 2020 - August 30, 2021 | | | |
|---|-------------------------------------|--|---|
| Race/Ethnicity | Number of Individuals Vaccinated | Percentage of Precinct's Vaccinated Population | Percentage of Total Precinct Population |
| Precinct 1 | | | |
| White | 93,331 | 18.2% | 17.1% |
| Hispanic/Latino | 182,890 | 35.6% | 41.3% |
| Other/Unknown | 51,744 | 10.1% | 0.2% |
| Black | 107,227 | 20.9% | 34.5% |
| Asian Am./Pacific Islander | 37,071 | 7.2% | 5.4% |
| Multi-racial | 40,305 | 7.8% | 1.4% |
| Am. Indian/Alaskan Native | 1,184 | 0.2% | 0.1% |
| Precinct 2 | | | |
| White | 111,539 | 25.2% | 26.5% |
| Hispanic/Latino | 228,129 | 51.5% | 60.8% |
| Other/Unknown | 36,376 | 8.2% | 0.1% |
| Black | 24,945 | 5.6% | 8.8% |
| Asian Am./Pacific Islander | 18,746 | 4.2% | 2.5% |
| Multi-racial | 22,585 | 5.1% | 1.2% |
| Am. Indian/Alaskan Native | 834 | 0.2% | 0.1% |
| Precinct 3 | | | |
| White | 194,950 | 31.0% | 36.0% |
| Hispanic/Latino | 191,593 | 30.0% | 34.8% |
| Other/Unknown | 61,768 | 10.0% | 0.3% |
| Black | 55,340 | 9.0% | 15.0% |
| Asian Am./Pacific Islander | 80,533 | 13.0% | 11.8% |
| Multi-racial | 47,148 | 7.0% | 1.9% |
| Am. Indian/Alaskan Native | 1,703 | 0.0% | 0.2% |
| Precinct 4 | | | |
| White | 195,202 | 34.1% | 37.9% |
| Hispanic/Latino | 175,426 | 30.6% | 37.0% |
| Other/Unknown | 54,861 | 9.6% | 0.3% |
| Black | 53,422 | 9.3% | 15.5% |
| Asian Am./Pacific Islander | 52,004 | 9.1% | 7.5% |
| Multi-racial | 40,146 | 7.0% | 1.6% |
| Am. Indian/Alaskan Native | 1,501 | 0.3% | 0.2% |

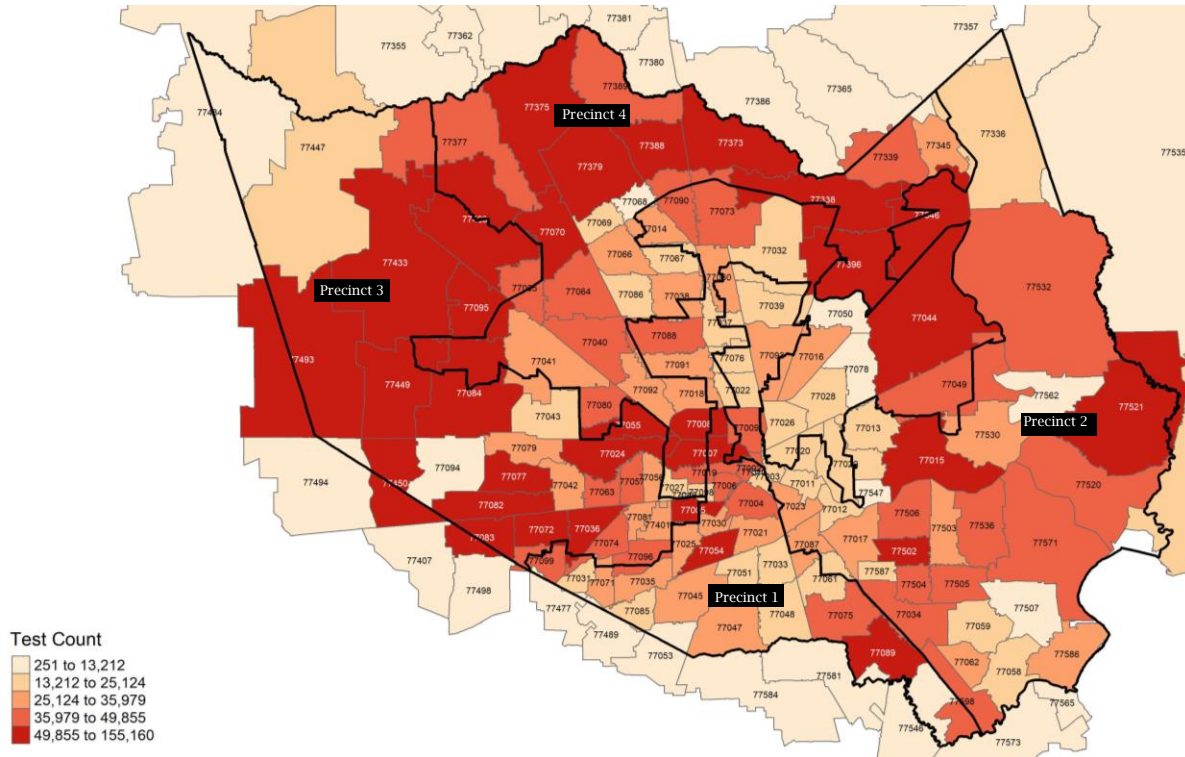
Sources: Harris County Public Health, Harris County Office of Management and Budget

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 5** reflects the number of COVID-19 PCR tests administered by the commissioner precinct.^{xxx}

Figure 6

COVID-19 Tests Administered by Recipient Zip Code January 1, 2020 – August 30, 2021



Source: Harris County Public Health

Between January 1, 2020 and August 30, 2021, providers in Harris County **administered 5,414,868 COVID-19 tests**. For a full list of tests administered by recipient zip code, see Appendix A.^{xxxi}

Table 5

COVID-19 Tests Administered, by Commissioner Precinct and for Harris County, January 1, 2020 – August 30, 2021

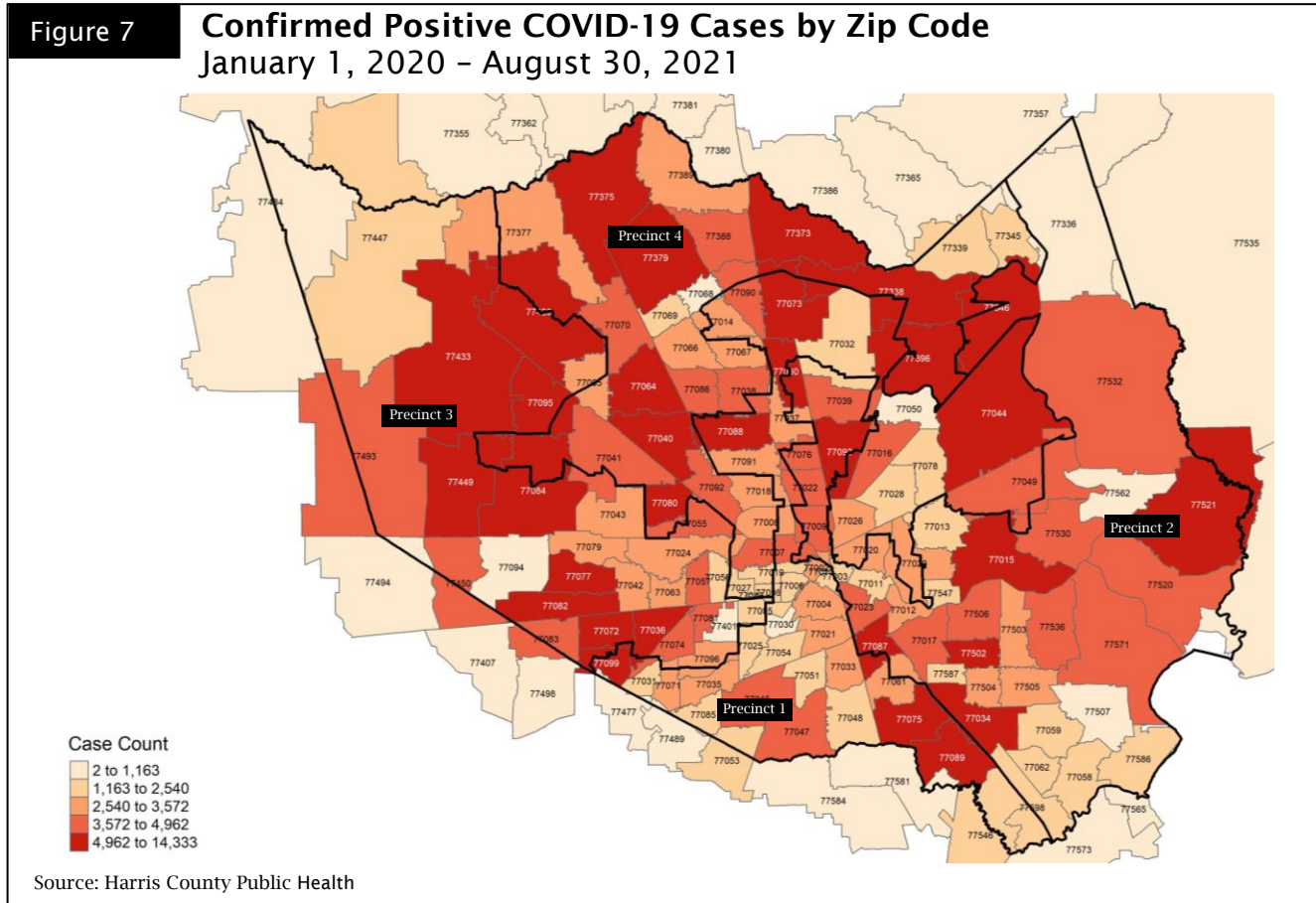
| Precinct 1 | Precinct 2 | Precinct 3 | Precinct 4 | Total Tests |
|------------|------------|------------|------------|------------------|
| 1,232,481 | 1,176,943 | 1,360,505 | 1,328,672 | 5,414,868 |

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

^{xxxi} Precinct totals do not sum to Total Tests because 316,267 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 6** reflects the number of positive COVID-19 cases by commissioner precinct.^{xxxiii}



Between January 1, 2020 and August 30, 2021, there were **500,802 confirmed positive cases of COVID-19** in Harris County. For a full list of positive cases by zip code, see Appendix B.^{xxxiii}

Table 6

| Confirmed Positive Cases by Commissioner Precinct and for Harris County, January 1, 2020 – August 30, 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 |
| 132,573 | 11.5% | 125,176 | 11.3% | 118,254 | 9.3% | 118,102 | 9.8% | 500,802 | 10.6% |

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

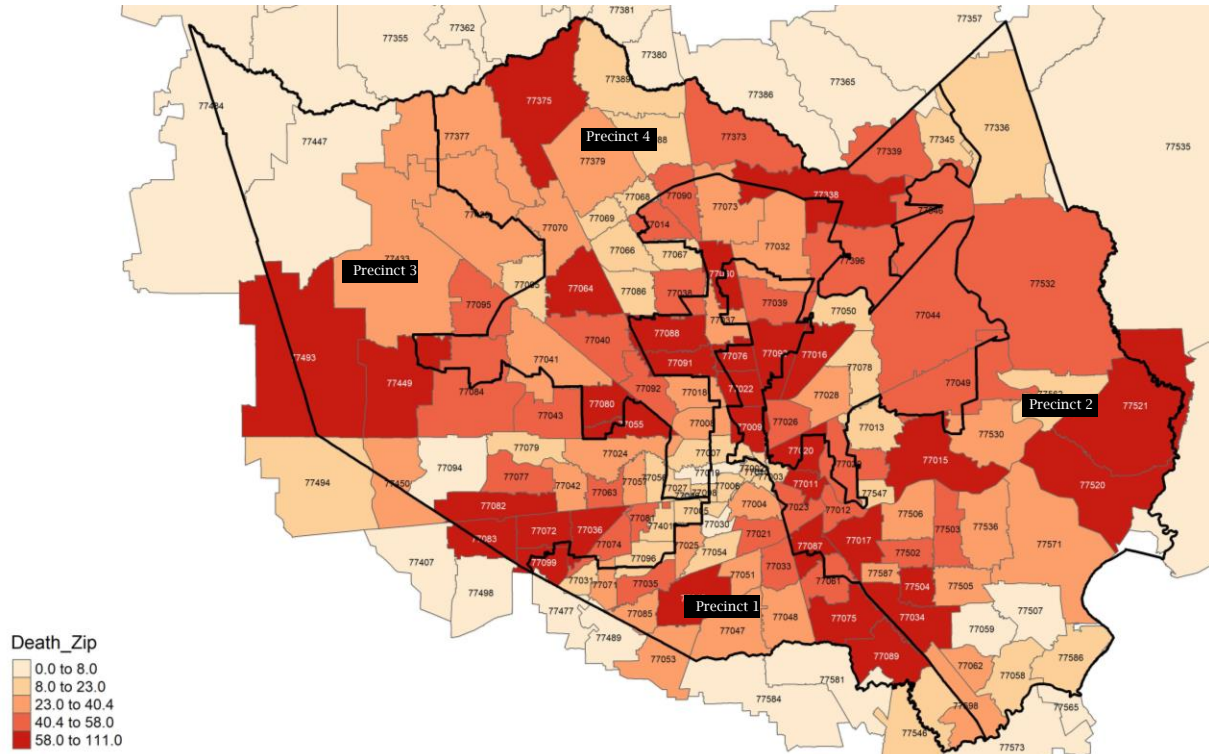
^{xxxiii} Precinct totals do not sum to Total Positive Cases because 6,697 confirmed positive cases have addresses that cannot be geo-coded into a Precinct.

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 7** reflects the number of COVID-19-related deaths by commissioner precinct.

Figure 8

COVID-19 Related Deaths by Zip Code January 1, 2020 – August 30, 2021



Source: Harris County Public Health

Between January 1, 2020 and August 30, 2021, there were **5,324 confirmed COVID-19-related deaths** in Harris County. For a full list of deaths by zip code, see Appendix C.^{xxxiv}

Table 7

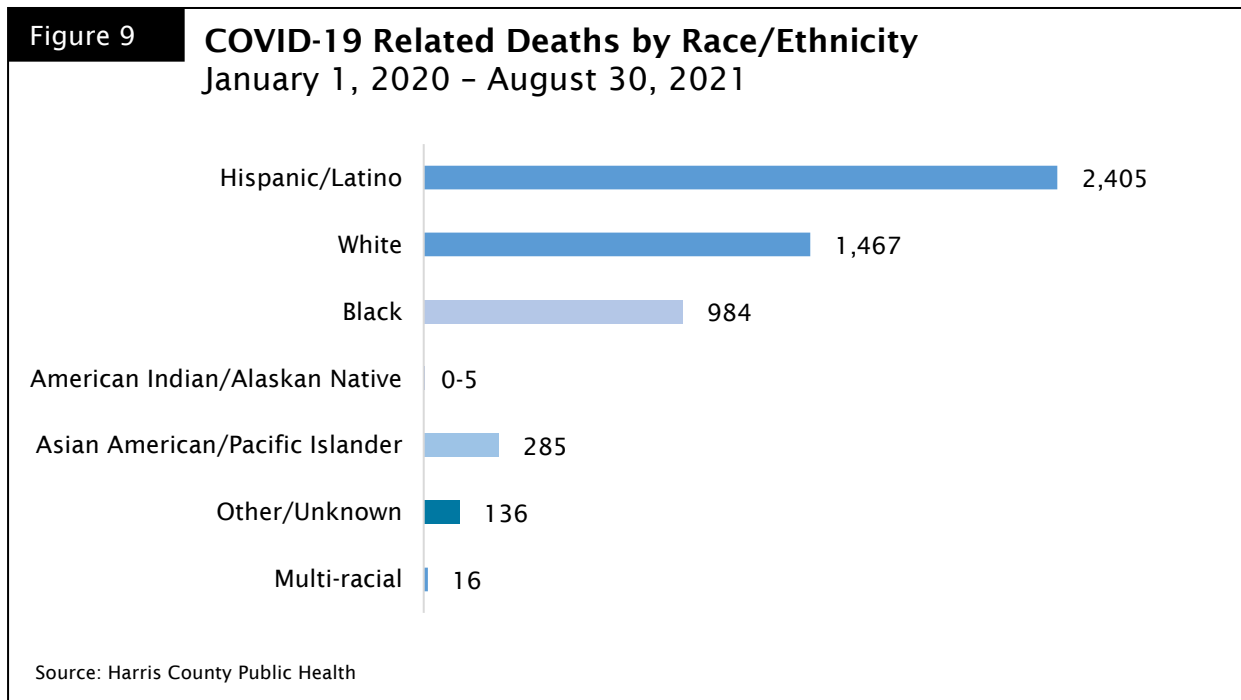
COVID-19 Related Deaths by Commissioner Precinct and for Harris County, January 1, 2020 – August 30, 2021

| 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 |
| 1,567 | 0.14% | 1,565 | 0.14% | 1,154 | 0.09% | 988 | 0.08% | 5,324 | 0.11% |

^{xxxiv} Precinct totals do not sum to Total Deaths because 50 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.^{xxxv}



Of the 5,296 individuals in Harris County who died of a COVID-19-related death between January 1, 2020 and August 30, 2021:^{xxxvi}

- **45.2% (2,405) identified as Hispanic**, and for context, 42.9% of County residents identify as Hispanic;
- **27.6% (1,467) identified as White**, and for context, 29.6% of County residents identify as White;
- **18.5% (984) identified as Black**, and for context, 18.6% of County residents identify as Black;
- **0.1% (0-5) identified as American Indian or Alaskan Native**, and for context, 0.2% of County residents identify as American Indian or Alaskan Native;
- **5.4% (285) identified as Asian or Pacific Islander**, and for context, 7.0% of County residents identify as Asian, Pacific Islander, or Native Hawaiian;
- **2.6% (136) were recorded as Other/unknown race and ethnicity**; and
- **0.3% (16) identified as Multi-racial**, and for context, 1.5% of County residents identify as Two or More Races.

^{xxxv} Race and ethnicity totals do not sum to Total Precinct Deaths because 28 deaths do not have race and ethnicity data available.

^{xxxvi} County-level race and ethnicity data are derived from US Census Bureau 2018 Population Estimates.

APPENDIX A

| Total COVID-19 Tests Administered by Zip Code Ordered by Tests Administered, January 1, 2020 – August 30, 2021 | | | | | | | |
|---|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|
| Zip Code | Tests Administered | Zip Code | Tests Administered | Zip Code | Tests Administered | Zip Code | Tests Administered |
| 77565 | 251 | 77029 | 17,081 | 77079 | 34,457 | 77339 | 49,775 |
| 77362 | 276 | 77011 | 17,317 | 77047 | 34,618 | 77015 | 49,974 |
| 77381 | 284 | 77003 | 17,637 | 77041 | 34,653 | 77502 | 50,232 |
| 77382 | 343 | 77069 | 17,741 | 77045 | 34,740 | 77008 | 50,808 |
| 77380 | 475 | 77523 | 18,354 | 77530 | 34,916 | 77072 | 50,985 |
| 77354 | 733 | 77058 | 18,560 | 77087 | 34,991 | 77024 | 51,683 |
| 77477 | 898 | 77587 | 19,472 | 77503 | 35,405 | 77054 | 51,786 |
| 77355 | 922 | 77026 | 19,488 | 77025 | 35,508 | 77070 | 52,641 |
| 77507 | 1,053 | 77059 | 20,283 | 77035 | 35,648 | 77055 | 52,941 |
| 77535 | 1,182 | 77447 | 21,160 | 77093 | 35,827 | 77388 | 53,562 |
| 77489 | 1,193 | 77098 | 22,839 | 77042 | 35,905 | 77044 | 54,901 |
| 77386 | 1,224 | 77067 | 23,148 | 77504 | 35,998 | 77036 | 55,591 |
| 77010 | 1,331 | 77048 | 24,120 | 77019 | 36,614 | 77082 | 56,308 |
| 77581 | 1,638 | 77039 | 24,189 | 77532 | 36,766 | 77007 | 58,526 |
| 77357 | 1,668 | 77022 | 24,247 | 77065 | 37,300 | 77338 | 60,705 |
| 77498 | 1,790 | 77086 | 24,253 | 77080 | 37,371 | 77089 | 61,828 |
| 77365 | 2,450 | 77020 | 24,342 | 77006 | 37,963 | 77077 | 63,529 |
| 77046 | 2,452 | 77027 | 24,742 | 77034 | 38,323 | 77373 | 65,230 |
| 77584 | 2,515 | 77061 | 24,880 | 77075 | 38,333 | 77083 | 72,139 |
| 77407 | 2,656 | 77076 | 25,017 | 77096 | 38,674 | 77521 | 73,398 |
| 77573 | 2,839 | 77043 | 25,019 | 77074 | 38,877 | 77375 | 75,979 |
| 77494 | 3,351 | 77030 | 25,543 | 77505 | 38,965 | 77450 | 76,311 |
| 77050 | 3,762 | 77062 | 25,905 | 77073 | 39,488 | 77396 | 86,767 |
| 77546 | 5,172 | 77091 | 26,120 | 77057 | 40,433 | 77346 | 88,464 |
| 77094 | 9,500 | 77038 | 26,902 | 77520 | 40,658 | 77095 | 91,577 |
| 77562 | 10,054 | 77060 | 27,613 | 77090 | 41,091 | 77379 | 92,967 |
| 77068 | 10,197 | 77021 | 28,349 | 77506 | 41,118 | 77084 | 101,836 |
| 77547 | 10,983 | 77023 | 28,386 | 77002 | 41,286 | 77429 | 105,308 |
| 77484 | 12,296 | 77016 | 28,441 | 77049 | 42,596 | 77005 | 117,577 |
| 77078 | 12,947 | 77092 | 28,484 | 77063 | 42,729 | 77433 | 123,242 |
| 77031 | 13,389 | 77014 | 29,065 | 77004 | 43,353 | 77449 | 155,160 |
| 77013 | 13,408 | 77066 | 29,377 | 77009 | 44,347 | | |
| 77336 | 13,681 | 77071 | 29,477 | 77099 | 44,518 | | |
| 77037 | 15,076 | 77586 | 30,236 | 77040 | 44,931 | | |
| 77028 | 15,310 | 77017 | 31,737 | 77377 | 45,012 | | |
| 77012 | 15,532 | 77345 | 31,867 | 77536 | 46,952 | | |
| 77032 | 16,101 | 77018 | 32,270 | 77389 | 47,228 | | |
| 77033 | 16,678 | 77081 | 32,741 | 77064 | 47,649 | | |
| 77051 | 16,872 | 77401 | 33,067 | 77088 | 48,402 | | |
| 77085 | 16,966 | 77056 | 33,620 | 77571 | 48,841 | | |

APPENDIX B

| Total COVID-19 Confirmed Positive Cases by Zip Code Ordered by Positive Cases, January 1, 2020 – August 30, 2021 | | | | | | | |
|---|----------------|----------|----------------|----------|----------------|----------|----------------|
| Zip Code | Positive Cases | Zip Code | Positive Cases | Zip Code | Positive Cases | Zip Code | Positive Cases |
| 77362 | 2 | 77005 | 1,549 | 77014 | 3,281 | 77081 | 4,751 |
| 77382 | 2 | 77546 | 1,567 | 77067 | 3,295 | 77388 | 4,791 |
| 77381 | 3 | 77058 | 1,637 | 77065 | 3,329 | 77049 | 4,912 |
| 77355 | 3 | 77031 | 1,717 | 77033 | 3,350 | 77070 | 4,957 |
| 77565 | 4 | 77006 | 1,793 | 77377 | 3,353 | 77060 | 4,969 |
| 77354 | 6 | 77056 | 1,891 | 77042 | 3,366 | 77064 | 4,976 |
| 77535 | 7 | 77051 | 1,943 | 77503 | 3,395 | 77082 | 4,984 |
| 77386 | 17 | 77078 | 1,974 | 77066 | 3,410 | 77080 | 5,049 |
| 77357 | 18 | 77013 | 1,990 | 77020 | 3,412 | 77077 | 5,107 |
| 77380 | 21 | 77586 | 2,029 | 77091 | 3,436 | 77040 | 5,127 |
| 77573 | 21 | 77019 | 2,047 | 77035 | 3,545 | 77075 | 5,178 |
| 77498 | 40 | 77025 | 2,075 | 77389 | 3,563 | 77087 | 5,236 |
| 77010 | 54 | 77339 | 2,083 | 77063 | 3,569 | 77034 | 5,265 |
| 77365 | 55 | 77054 | 2,129 | 77057 | 3,573 | 77338 | 5,296 |
| 77407 | 62 | 77062 | 2,132 | 77047 | 3,644 | 77502 | 5,441 |
| 77507 | 66 | 77028 | 2,166 | 77092 | 3,675 | 77073 | 5,591 |
| 77584 | 79 | 77032 | 2,217 | 77041 | 3,688 | 77099 | 5,743 |
| 77523 | 105 | 77587 | 2,268 | 77086 | 3,705 | 77375 | 6,005 |
| 77581 | 131 | 77598 | 2,361 | 77022 | 3,738 | 77044 | 6,133 |
| 77046 | 163 | 77085 | 2,458 | 77039 | 3,767 | 77072 | 6,163 |
| 77477 | 218 | 77048 | 2,464 | 77532 | 3,794 | 77373 | 6,340 |
| 77484 | 288 | 77011 | 2,531 | 77023 | 3,831 | 77093 | 6,376 |
| 77050 | 471 | 77018 | 2,577 | 77016 | 3,871 | 77521 | 6,667 |
| 77494 | 504 | 77029 | 2,578 | 77038 | 3,908 | 77088 | 6,693 |
| 77094 | 684 | 77004 | 2,595 | 77450 | 3,909 | 77095 | 6,794 |
| 77489 | 774 | 77002 | 2,596 | 77007 | 3,936 | 77089 | 6,886 |
| 77562 | 988 | 77037 | 2,631 | 77536 | 4,004 | 77396 | 6,977 |
| 77336 | 1,027 | 77021 | 2,745 | 77571 | 4,137 | 77015 | 7,157 |
| 77068 | 1,036 | 77043 | 2,759 | 77045 | 4,177 | 77346 | 7,367 |
| 77401 | 1,095 | 77012 | 2,794 | 77090 | 4,189 | 77036 | 7,453 |
| 77030 | 1,138 | 77505 | 2,810 | 77530 | 4,275 | 77379 | 7,455 |
| 77059 | 1,180 | 77096 | 2,816 | 77009 | 4,346 | 77429 | 7,652 |
| 77098 | 1,192 | 77026 | 2,849 | 77074 | 4,358 | 77433 | 9,211 |
| 77547 | 1,335 | 77071 | 2,881 | 77083 | 4,423 | 77084 | 12,539 |
| 77003 | 1,346 | 77061 | 2,935 | 77076 | 4,502 | 77449 | 14,333 |
| 77345 | 1,354 | 77024 | 2,952 | 77017 | 4,560 | | |
| 77447 | 1,426 | 77504 | 2,971 | 77520 | 4,577 | | |
| 77069 | 1,495 | 77008 | 3,108 | 77055 | 4,744 | | |
| 77027 | 1,532 | 77079 | 3,142 | 77506 | 4,749 | | |

APPENDIX C

| Total Confirmed COVID-19 Related Deaths by Zip Code Ordered by Number of Deaths, January 1, 2020 – August 30, 2021 | | | | | | | |
|---|--------------|----------|--------------|----------|--------------|----------|--------------|
| Zip Code | COVID Deaths | Zip Code | COVID Deaths | Zip Code | COVID Deaths | Zip Code | COVID Deaths |
| 77362 | 0-5 | 77494 | 11 | 77018 | 30 | 77081 | 56 |
| 77382 | 0-5 | 77336 | 11 | 77450 | 31 | 77023 | 57 |
| 77381 | 0-5 | 77345 | 12 | 77047 | 33 | 77502 | 57 |
| 77355 | 0-5 | 77546 | 13 | 77571 | 33 | 77091 | 58 |
| 77565 | 0-5 | 77389 | 13 | 77598 | 35 | 77060 | 58 |
| 77354 | 0-5 | 77547 | 14 | 77530 | 35 | 77075 | 59 |
| 77535 | 0-5 | 77056 | 15 | 77057 | 36 | 77504 | 60 |
| 77386 | 0-5 | 77065 | 15 | 77506 | 36 | 77034 | 60 |
| 77357 | 0-5 | 77003 | 16 | 77070 | 36 | 77375 | 60 |
| 77380 | 0-5 | 77079 | 16 | 77433 | 36 | 77064 | 61 |
| 77573 | 0-5 | 77013 | 17 | 77028 | 38 | 77076 | 63 |
| 77498 | 0-5 | 77066 | 17 | 77004 | 38 | 77011 | 64 |
| 77010 | 0-5 | 77388 | 17 | 77061 | 41 | 77017 | 65 |
| 77365 | 0-5 | 77562 | 18 | 77090 | 41 | 77045 | 66 |
| 77407 | 0-5 | 77078 | 18 | 77039 | 42 | 77015 | 66 |
| 77507 | 0-5 | 77058 | 19 | 77038 | 42 | 77016 | 69 |
| 77584 | 0-5 | 77086 | 20 | 77044 | 42 | 77083 | 69 |
| 77523 | 0-5 | 77031 | 21 | 77021 | 43 | 77080 | 69 |
| 77046 | 0-5 | 77096 | 21 | 77092 | 43 | 77020 | 70 |
| 77477 | 0-5 | 77067 | 22 | 77077 | 44 | 77099 | 72 |
| 77484 | 0-5 | 77025 | 23 | 77043 | 46 | 77521 | 73 |
| 77094 | 0-5 | 77032 | 23 | 77026 | 47 | 77009 | 74 |
| 77447 | 0-5 | 77536 | 23 | 77033 | 48 | 77055 | 74 |
| 77581 | 6 | 77379 | 23 | 77029 | 49 | 77082 | 76 |
| 77489 | 6 | 77051 | 24 | 77014 | 49 | 77089 | 76 |
| 77030 | 6 | 77071 | 25 | 77532 | 50 | 77093 | 77 |
| 77059 | 7 | 77429 | 25 | 77373 | 50 | 77022 | 80 |
| 77019 | 7 | 77587 | 26 | 77339 | 51 | 77087 | 82 |
| 77050 | 8 | 77024 | 26 | 77074 | 51 | 77338 | 87 |
| 77401 | 8 | 77041 | 26 | 77049 | 51 | 77520 | 88 |
| 77027 | 8 | 77505 | 27 | 77040 | 52 | 77088 | 88 |
| 77005 | 8 | 77377 | 27 | 77012 | 53 | 77036 | 98 |
| 77068 | 9 | 77062 | 28 | 77503 | 53 | 77072 | 105 |
| 77098 | 9 | 77085 | 28 | 77035 | 53 | 77449 | 111 |
| 77006 | 9 | 77048 | 28 | 77396 | 53 | | |
| 77007 | 9 | 77008 | 28 | 77084 | 53 | | |
| 77069 | 10 | 77042 | 28 | 77095 | 55 | | |
| 77586 | 10 | 77073 | 28 | 77346 | 55 | | |
| 77054 | 10 | 77037 | 29 | 77063 | 56 | | |

APPENDIX D

Number of Individuals Per 100,000 Residents Fully Vaccinated and Social Vulnerability Index (SVI), Ordered by Residents Vaccinated, December 14, 2020 – August 30, 2021^{xxxvii}

| Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI | Zip Code | Per 100k Rate | SVI |
|----------|---------------|------|----------|---------------|------|----------|---------------|------|----------|---------------|------|
| 77013 | 31,406 | 0.98 | 77031 | 41,526 | 0.64 | 77029 | 47,264 | 0.88 | 77450 | 57,567 | 0.18 |
| 77090 | 33,237 | 0.70 | 77028 | 41,947 | 0.84 | 77071 | 47,661 | 0.68 | 77041 | 57,907 | 0.31 |
| 77060 | 33,347 | 0.94 | 77396 | 41,966 | 0.51 | 77047 | 47,968 | 0.55 | 77089 | 58,484 | 0.47 |
| 77067 | 33,819 | 0.79 | 77536 | 42,132 | 0.44 | 77040 | 48,109 | 0.55 | 77077 | 58,556 | 0.29 |
| 77506 | 34,272 | 0.95 | 77521 | 42,288 | 0.64 | 77011 | 48,115 | 0.96 | 77375 | 58,594 | 0.45 |
| 77336 | 35,391 | 0.30 | 77504 | 42,379 | 0.88 | 77055 | 48,127 | 0.68 | 77054 | 61,870 | 0.26 |
| 77078 | 35,845 | 0.89 | 77012 | 42,393 | 0.99 | 77070 | 48,196 | 0.49 | 77079 | 62,343 | 0.27 |
| 77081 | 35,894 | 0.81 | 77035 | 42,555 | 0.74 | 77064 | 48,221 | 0.47 | 77025 | 62,732 | 0.32 |
| 77076 | 36,644 | 0.86 | 77080 | 42,562 | 0.83 | 77085 | 48,472 | 0.60 | 77003 | 64,672 | 0.61 |
| 77050 | 36,707 | 0.71 | 77020 | 42,751 | 0.89 | 77084 | 49,071 | 0.36 | 77433 | 66,386 | 0.11 |
| 77503 | 37,583 | 0.82 | 77338 | 42,831 | 0.58 | 77082 | 49,183 | 0.54 | 77401 | 66,452 | 0.03 |
| 77562 | 37,678 | 0.63 | 77021 | 42,885 | 0.74 | 77449 | 49,236 | 0.36 | 77005 | 68,174 | 0.03 |
| 77014 | 37,770 | 0.78 | 77075 | 42,945 | 0.61 | 77388 | 49,395 | 0.13 | 77389 | 69,179 | 0.14 |
| 77039 | 38,122 | 0.73 | 77502 | 43,131 | 0.89 | 77346 | 49,528 | 0.12 | 77006 | 72,442 | 0.09 |
| 77547 | 38,203 | 0.66 | 77086 | 43,283 | 0.78 | 77586 | 49,620 | 0.18 | 77094 | 73,841 | NA |
| 77520 | 38,321 | 0.82 | 77022 | 43,413 | 0.97 | 77044 | 49,835 | 0.41 | 77059 | 73,902 | 0.05 |
| 77093 | 38,372 | 0.97 | 77073 | 43,509 | 0.50 | 77377 | 50,351 | 0.24 | 77008 | 74,941 | 0.08 |
| 77532 | 38,743 | 0.37 | 77045 | 43,537 | 0.84 | 77095 | 50,424 | 0.23 | 77007 | 79,390 | 0.01 |
| 77091 | 38,773 | 0.92 | 77092 | 43,750 | 0.75 | 77429 | 50,456 | 0.06 | 77098 | 88,582 | 0.07 |
| 77061 | 38,775 | 0.70 | 77004 | 43,778 | 0.53 | 77345 | 51,142 | 0.05 | 77019 | 89,043 | 0.09 |
| 77036 | 38,961 | 0.93 | 77373 | 43,804 | 0.30 | 77069 | 51,751 | 0.22 | 77024 | 92,749 | 0.16 |
| 77033 | 39,006 | 0.93 | 77042 | 44,815 | 0.38 | 77068 | 52,179 | 0.43 | 77002 | 96,588 | 0.42 |
| 77051 | 39,045 | 0.80 | 77015 | 45,081 | 0.76 | 77083 | 53,148 | 0.53 | 77010 | 108,005 | 0.02 |
| 77016 | 39,226 | 0.89 | 77505 | 45,354 | 0.24 | 77018 | 53,692 | 0.48 | 77027 | 110,470 | 0.01 |
| 77598 | 39,629 | 0.57 | 77087 | 45,439 | 1.00 | 77096 | 54,026 | 0.39 | 77056 | 140,767 | 0.14 |
| 77088 | 39,861 | 0.77 | 77017 | 45,461 | 0.66 | 77379 | 54,453 | 0.21 | 77046 | 156,289 | 0.10 |
| 77037 | 39,862 | 0.69 | 77099 | 45,563 | 0.80 | 77062 | 54,587 | 0.19 | 77030 | 171,723 | 0.28 |
| 77026 | 39,964 | 0.94 | 77066 | 45,792 | 0.59 | 77043 | 54,749 | 0.52 | | | |
| 77034 | 40,025 | 0.67 | 77065 | 45,849 | 0.43 | 77032 | 55,098 | 0.99 | | | |
| 77571 | 40,439 | 0.38 | 77049 | 46,171 | 0.63 | 77058 | 55,479 | 0.46 | | | |
| 77530 | 40,812 | 0.59 | 77048 | 46,245 | 0.85 | 77339 | 55,592 | 0.32 | | | |
| 77587 | 40,980 | 0.91 | 77072 | 46,328 | 0.87 | 77057 | 56,030 | 0.34 | | | |
| 77074 | 41,108 | 0.86 | 77023 | 46,561 | 0.76 | 77009 | 56,566 | 0.62 | | | |
| 77038 | 41,157 | 0.50 | 77063 | 47,165 | 0.57 | 77447 | 57,153 | 0.45 | | | |

^{xxxvii} Table excludes data for zip codes with unavailable population data.

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 Ramin Naderi, Analyst and Amy Rose, Senior Analyst.

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