



# MEMORANDUM

Date: March 1, 2021

To: The Honorable Chair and Members  
Pima County Board of Supervisors

From: C.H. Huckelberry  
County Administrator 

Re: **Additional Information – Board of Supervisors March 2, 2021 Agenda Item 9: Updates and Action on COVID-19**

This information supplements that provided Friday to the Board of Supervisors regarding the standard COVID-19 status as well as the measures taken to reduce the spread of the Coronavirus and those vaccinations for disadvantaged populations underway by our County public health agency.

## Identifying Vulnerable or Disadvantaged Populations

By examining census tract data related to age, income and race/ethnicity, we are able to geographically identify areas of the community that could be classified as a vulnerable population. Figures 1, 2 and 3 show this information. By combining this information, we get a composite location of potential vulnerability.

In addition, the County public health agency uses the Centers for Disease Control Social Vulnerability Index for Pima County. This index takes into account four domains: 1) socioeconomic status; 2) household composition and disability; 3) race/ethnicity and language ability; and 4) housing type and transportation. Census tracts are grouped into quartiles of social vulnerability. A map of the social vulnerability by census tract is included as Figure 4.

## Identifying Gaps in Vaccination as it Relates to Vulnerable and Disadvantaged Populations

By using the address of those vaccinated, it is possible to determine their geographic distribution within Pima County. Such has occurred for all doses given through February 25 and is displayed in Figure 5 showing total COVID-19 vaccinations by census tract. Additionally, Figure 6 shows the percentage of a census tract population that received a vaccine.

Reviewing these maps gives accurate information of the degree and amount of vaccination occurring in each census tract. As stated in our Accelerated Vaccination Plan for Disadvantaged Populations, this information helps identify where to target mobile vaccination clinics. It is this information that allowed us to specifically target South Tucson, Christ Community Church and Rising Star Baptist Church on Park Avenue. This type of information will continue to be used to target census tracts that have low vaccination rates or low total vaccinations by census tract and are identified as vulnerable or disadvantaged populations.

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This information combined with the social vulnerability index as well as information related to age, income and race/ethnicity are all used to guide decisions regarding the location of mobile vaccination clinics.

#### Vaccination Policy within Vulnerable for Disadvantaged Communities

If we are to reverse longstanding health disparities, we need to give preference in vaccination to vulnerable and disadvantaged communities. To do so, I asked our public health officials to vaccinate anyone qualified or desiring a vaccination within a vulnerable or disadvantaged community.

#### Results of Mobile Vaccination Clinics

As previously stated, the County held three mobile vaccination clinics on February 26 and February 27. These were conducted at Greyhound Park, Rising Star Baptist Church on Park Avenue and Christ Community Church on the far east side. The results of these clinic are shown in the table below.

Location	Total Vaccines Delivered	% over 65	% Hispanic	% African American
South Tucson – Housing Authority	72	71%	71%	8%
South Tucson – Greyhound Park	492	46%	68%	3%
Christ Community Church	387	82%	15%	4%
Rising Star Baptist Church	792	43%	35%	34%
<b>Total</b>	<b>1,743</b>			

Although total data entry is not complete for this weekend's events the preliminary demographic estimates continue to confirm that we are serving the target low-income and minority populations. These mobile clinics were very successful and will continue to occur on a regular basis. Mobile clinics targeted to vulnerable or disadvantaged communities will receive first priority for vaccine allocation behind orphaned assisted living facilities as indicated in my February 12 memorandum for the Board COVID-19 update on February 16 that established the priority of vaccine distribution.

#### Increased Vaccination Capacity and Locations

Figure 7 shows 68 partner sites that have now been qualified by the State to provide vaccinations and that have successfully received and administered vaccination. In addition,

The Honorable Chair and Members, Pima County Board of Supervisors

Re: **Additional Information – Board of Supervisors March 2, 2021 Agenda Item 9: Updates and Action on COVID-19**

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there are total 61 additional partner sites that are qualified by the State but have yet to receive any vaccine stock.

In addition, Figure 8 shows our four regional vaccination centers, two sites being pursued as regional centers, the State's vaccination point of distribution (POD) at the University of Arizona, 30 retail pharmacies and the 18 mobile sites managed by community health clinic partners or by the County and its contractor.

As our mapping well establishes, Pima County has been able to achieve a good distribution of vaccination resources throughout its broad geography. Mobile efforts in particular help us to attend to those communities that may be the most under resource. Perhaps most notably, in collaboration with many partners, we have built the capacity to absorb and deliver a large volume of vaccine doses that is ready to be activated once the supply issues are resolved.

#### Vaccination Report

Attachment 1 is the latest vaccination report dated March 1, 2021 showing 267,072 vaccines administered. This number does not include the mobile clinic conducted by the County over the weekend. Demographic continue to improve regarding age. Of those vaccines given, 60 percent are given to individuals 60 years of age or older, while the percentage of population is 26 percent in this age group.

Second doses have increased to 89,528 or nearly 90,000 individuals who have received both doses of the COVID-19 vaccine.

#### Vaccinations Given by Regional Vaccination Center

Attachment 2 shows the number of vaccines given by all of the County's developed regional vaccination centers since January 15, 2021. As you can see, total vaccination capacity is now over 7,000. We expect this capacity to increase to nearly 10,000 per day by mid-March.

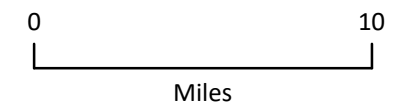
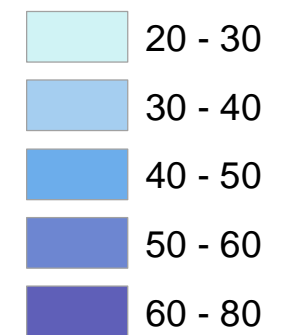
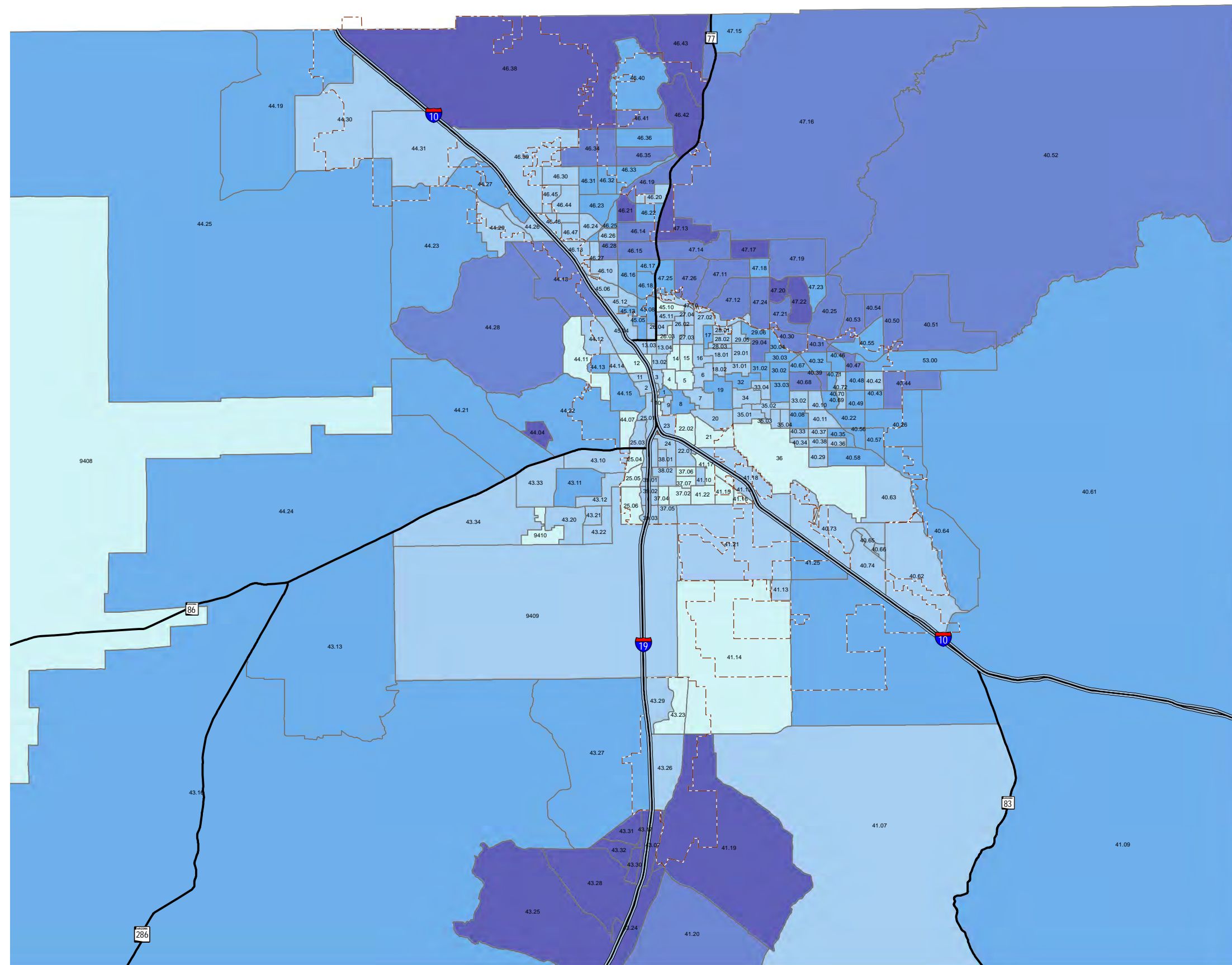
CHH/anc

#### Attachments

c: Jan Leshner, Chief Deputy County Administrator  
Carmine DeBonis, Jr., Deputy County Administrator for Public Works  
Francisco García, MD, MPH, Deputy County Administrator & Chief Medical Officer,  
Health and Community Services  
Terry Cullen, MD, MS, Public Health Director, Pima County Health Department

# Figure 1

## Median Age by Census Tract



**PIMA COUNTY**  
INFORMATION TECHNOLOGY  
GEOGRAPHIC INFORMATION SYSTEMS

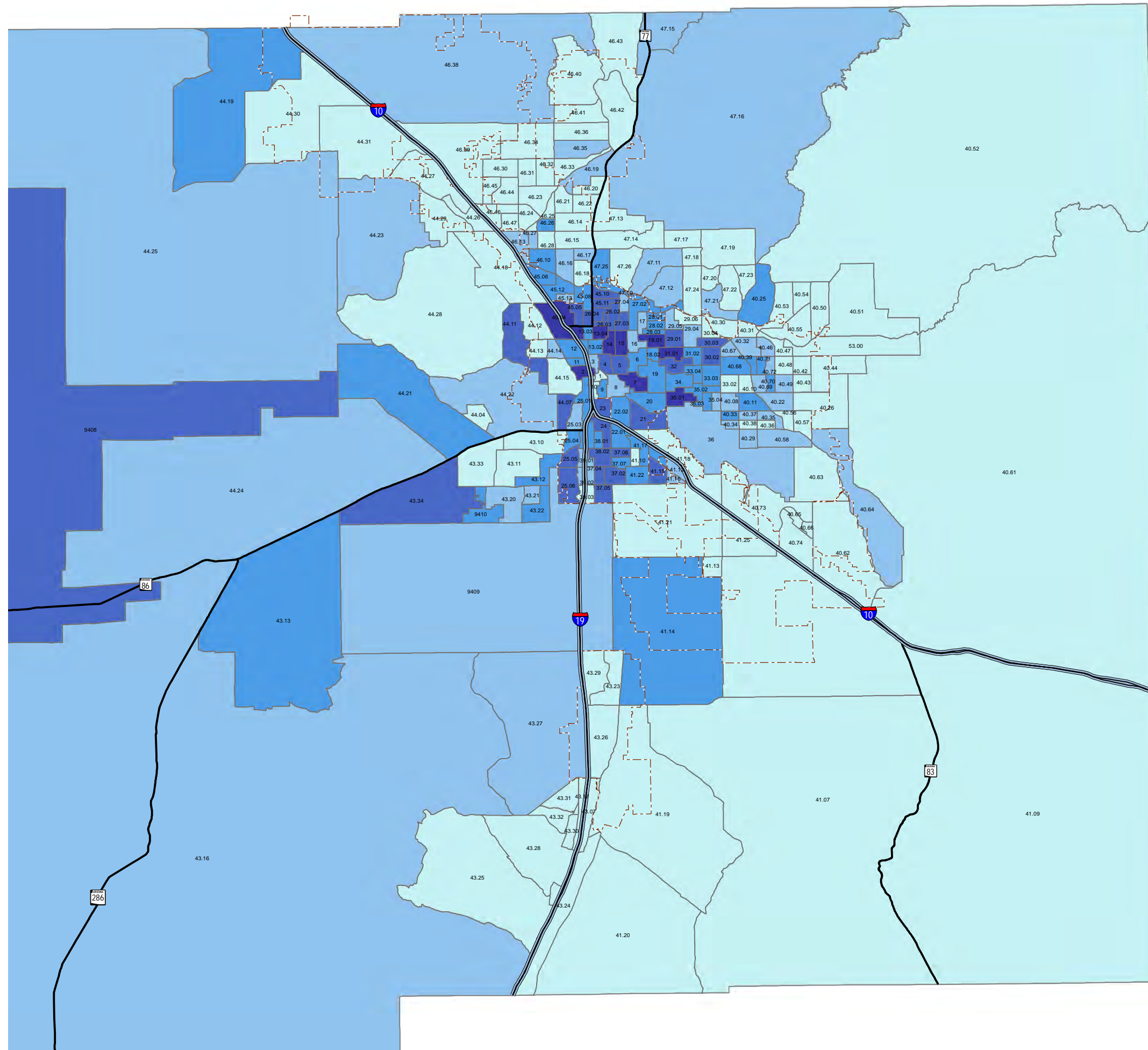
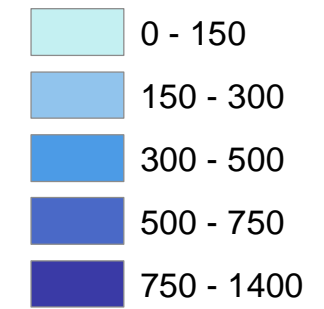
Pima County  
Information Technology Department  
33 N Stone Ave, 15th Floor  
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3/1/2021

# Figure 2



# Households below Poverty Level by Census Tract



A horizontal number line with tick marks at 0 and 10. Below the line is a bracket spanning from 0 to 10, with the word "Miles" centered underneath it.



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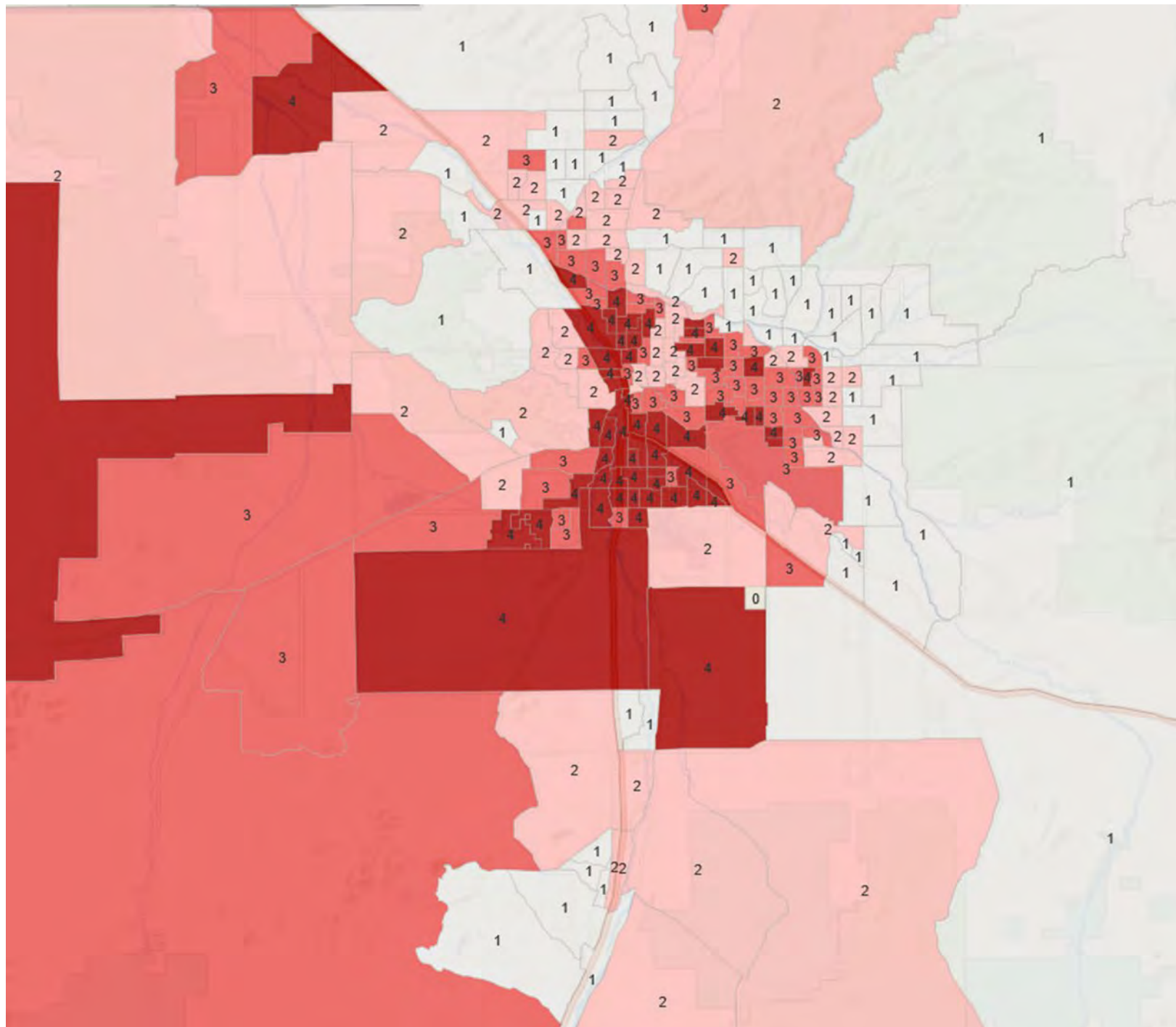
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# Figure 3





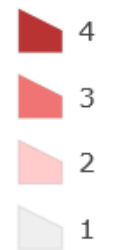
# Figure 4



## Social Vulnerability in Pima County by Census Tract

Source: CDC SVI 2018

Vulnerability Index



Vulnerability scale consists of categories 1-4 (1 representing lowest vulnerability and 4 being highest vulnerability), defined by 25th, 50th, and 75th percentile of CDC-SVI overall vulnerability scores for Pima county.



3/1/2021



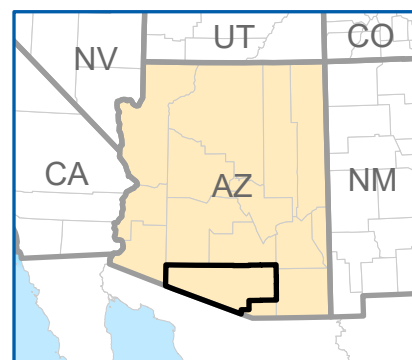
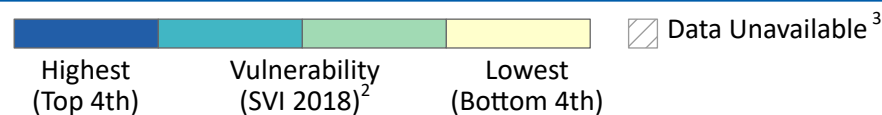
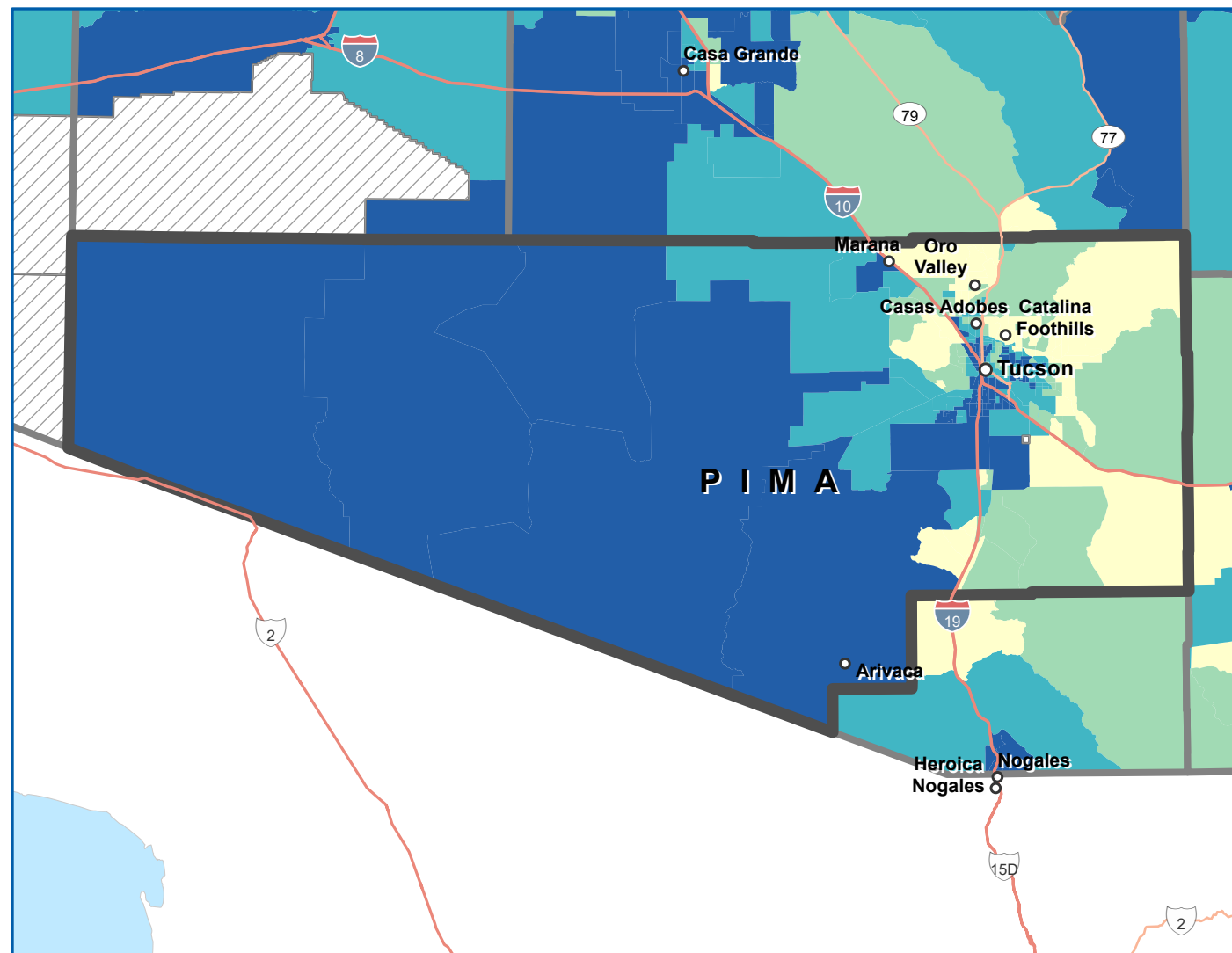
# CDC Social Vulnerability Index 2018

Pima County, Arizona

PART 1



## Overall Social Vulnerability<sup>1</sup>



**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. The **CDC Social Vulnerability Index (CDC SVI 2018)<sup>4</sup>** County Map depicts the social vulnerability of communities, at census tract level, within a specified county. CDC SVI

2018 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 combines all the variables to provide a comprehensive assessment.

MAP PRODUCED 3/16/2020



Agency for Toxic Substances and Disease Registry

Division of Toxicology and Human Health Sciences

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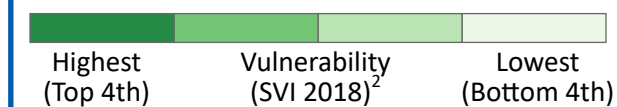
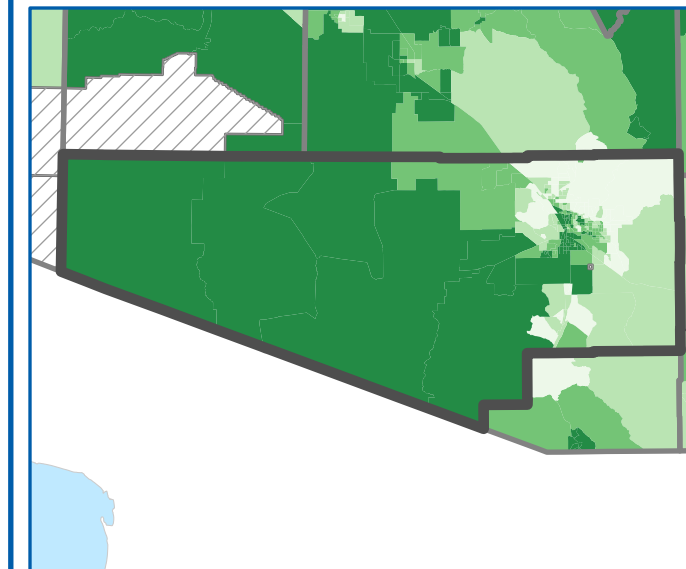


CDC SVI 2018 – PIMA COUNTY, ARIZONA

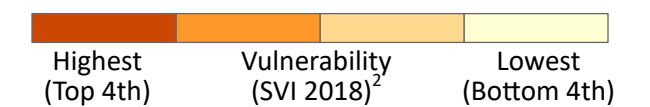
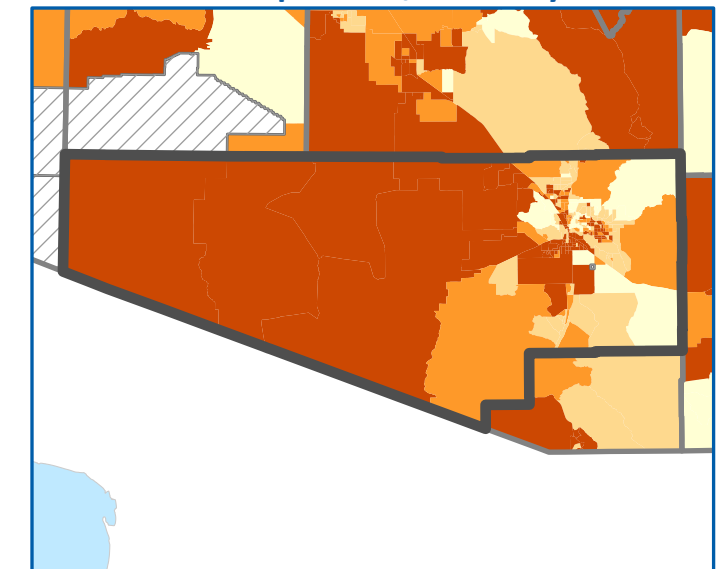
PART 2

## CDC SVI Themes

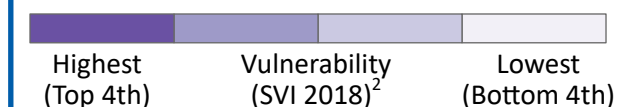
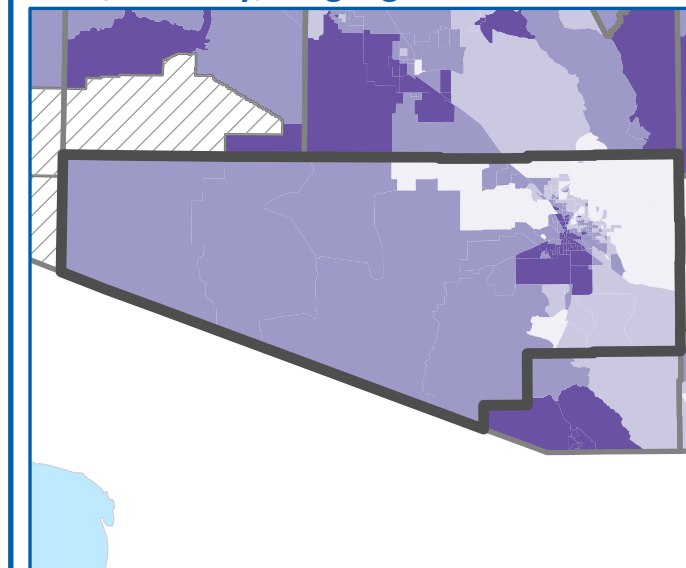
### Socioeconomic Status<sup>5</sup>



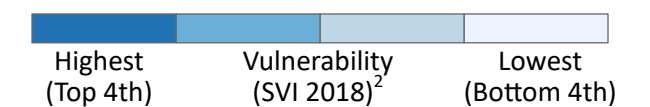
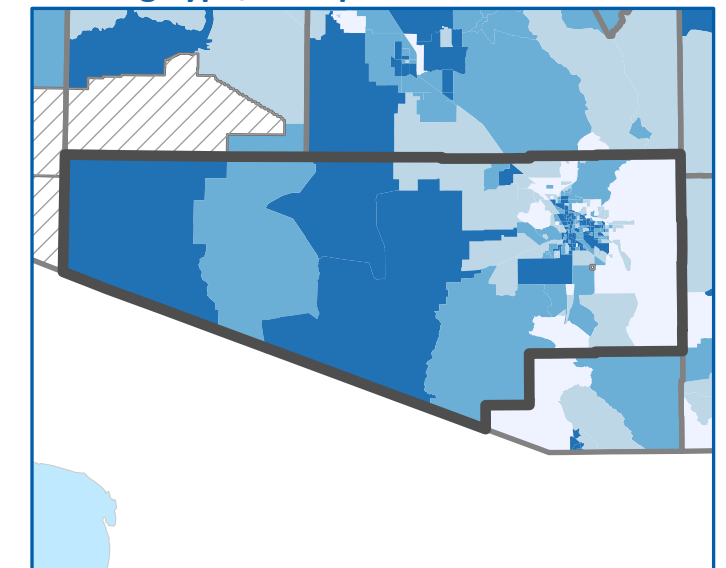
### Household Composition/Disability<sup>6</sup>



### Race/Ethnicity/Language<sup>7</sup>



### Housing Type/Transportation<sup>8</sup>



**Data Sources:** <sup>2</sup>CDC/ATSDR/GRASP, U.S. Census Bureau, Esri® StreetMap™ Premium.

**Notes:** <sup>1</sup>Overall Social Vulnerability: All 15 variables. <sup>2</sup>Census tracts with 0 population. <sup>4</sup>The CDC SVI combines percentile rankings of US Census American Community Survey (ACS) 2012-2016 variables, for the state, at the census tract level. <sup>5</sup>Socioeconomic Status: Poverty, Unemployed, Per Capita Income, No High School Diploma. <sup>6</sup>Household Composition/Disability: Aged 65 and Over, Aged 17 and Younger, Single-parent Household, Aged 5 and over with a Disability. <sup>7</sup>Race/Ethnicity/Language: Minority, English Language Ability. <sup>8</sup>Housing Type/Transportation: Multi-unit, Mobile Homes, Crowding, No Vehicle, Group Quarters.

**Projection:** Arizona Custom Albers Equal Area Conic (EJH).

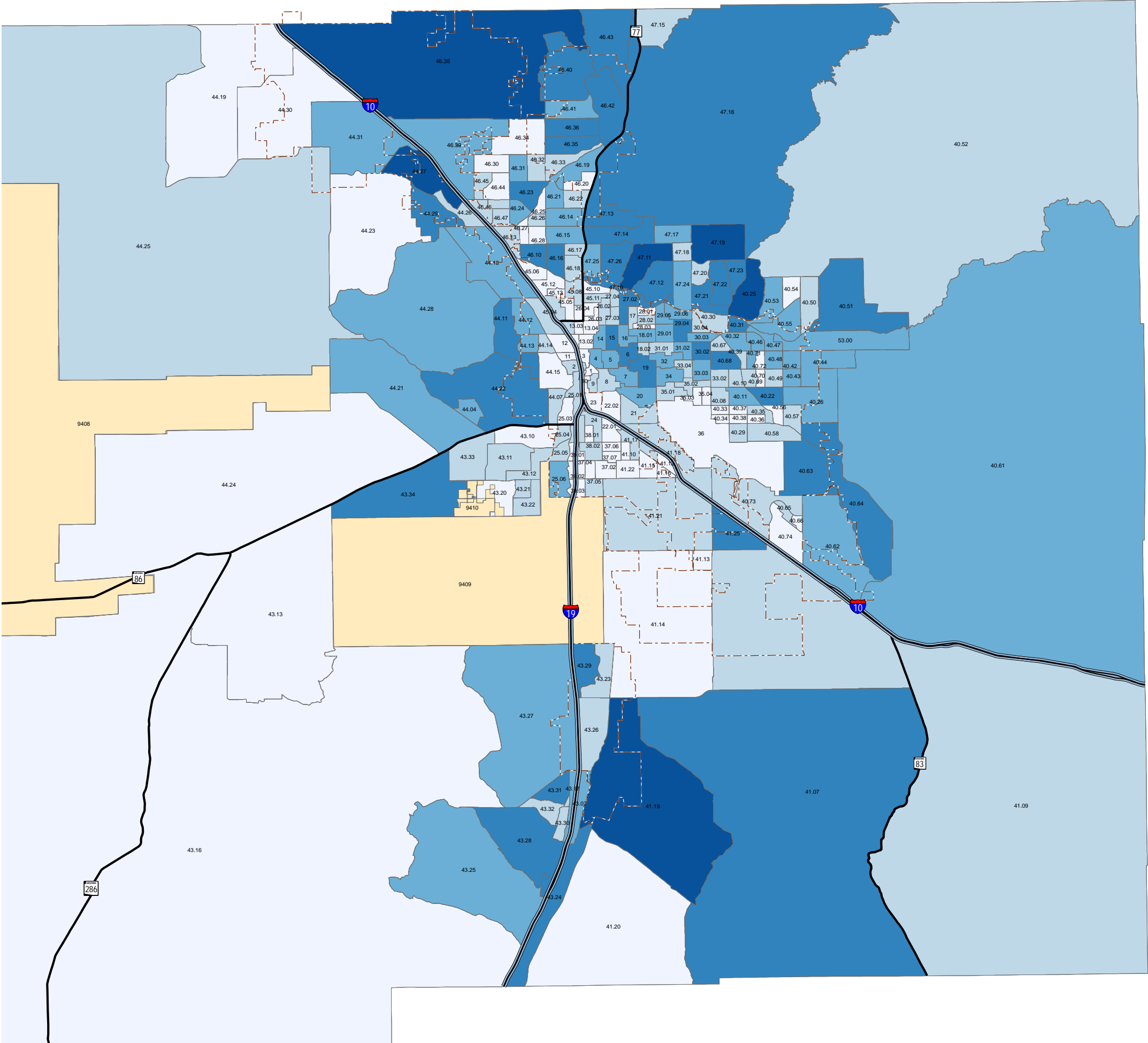
**References:** Flanagan, B.E., et al., A Social Vulnerability Index for Disaster Management. *Journal of Homeland Security and Emergency Management*, 2011. 8(1).

CDC SVI web page: <http://svi.cdc.gov>.

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# Figure 5

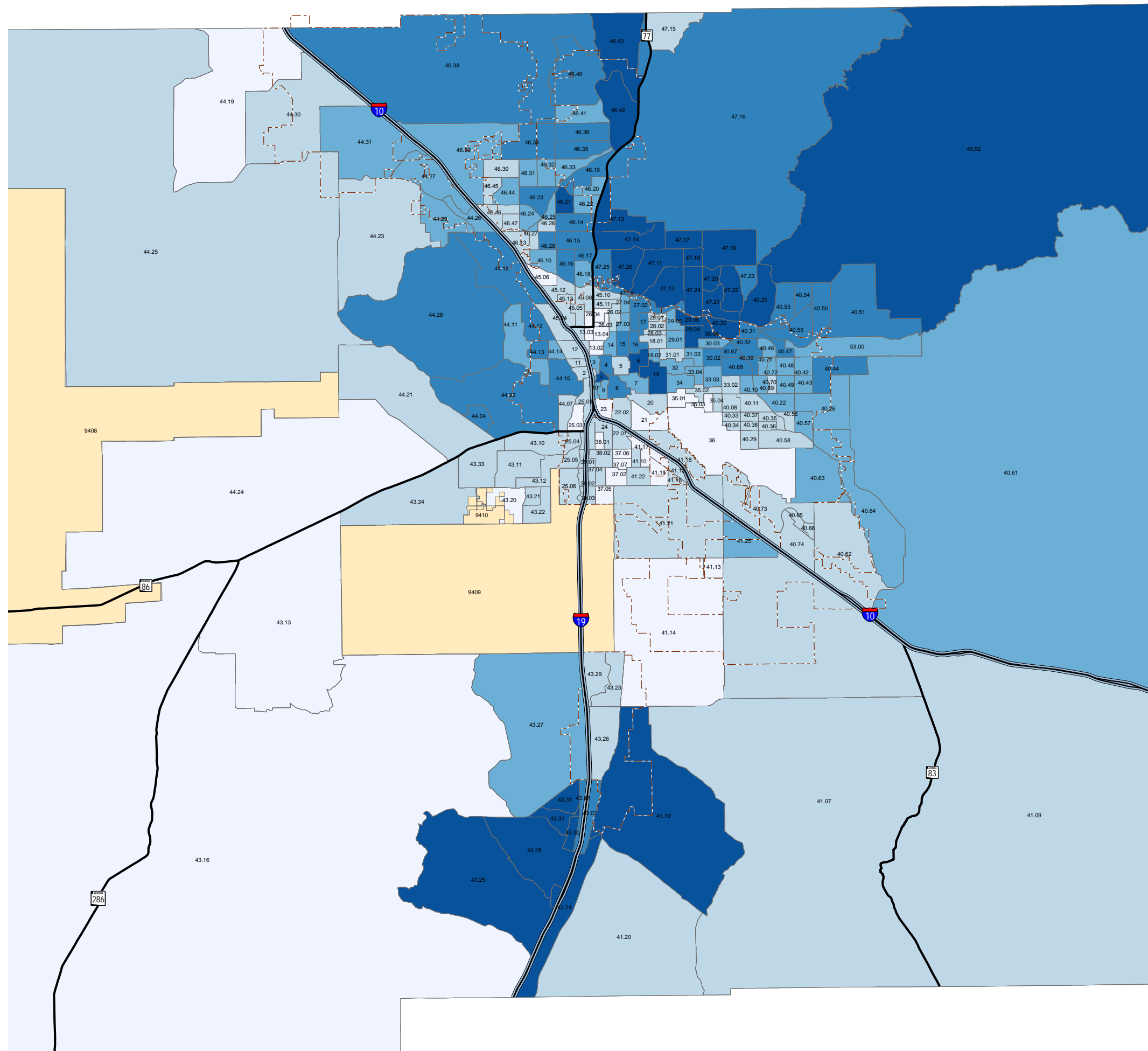
# Total COVID-19 Vaccinations by Census Tract Through Feb. 25



# Figure 6

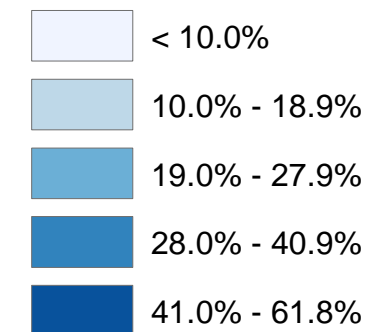


## Rate of COVID-19 Vaccinations by Census Tract (All Doses Given Through Feb. 25 as Percentage of Tract Population)



## Vaccination Rate

*Total Doses / 2020 Population*



 **Tribal Lands**



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# Figure 7



# State Qualified COVID-19 Vaccine Locations

- Health Clinics-other
- Desert Senita
- El Rio Healthcare
- Marana Health Center
- Pima County Health
- United Community Health



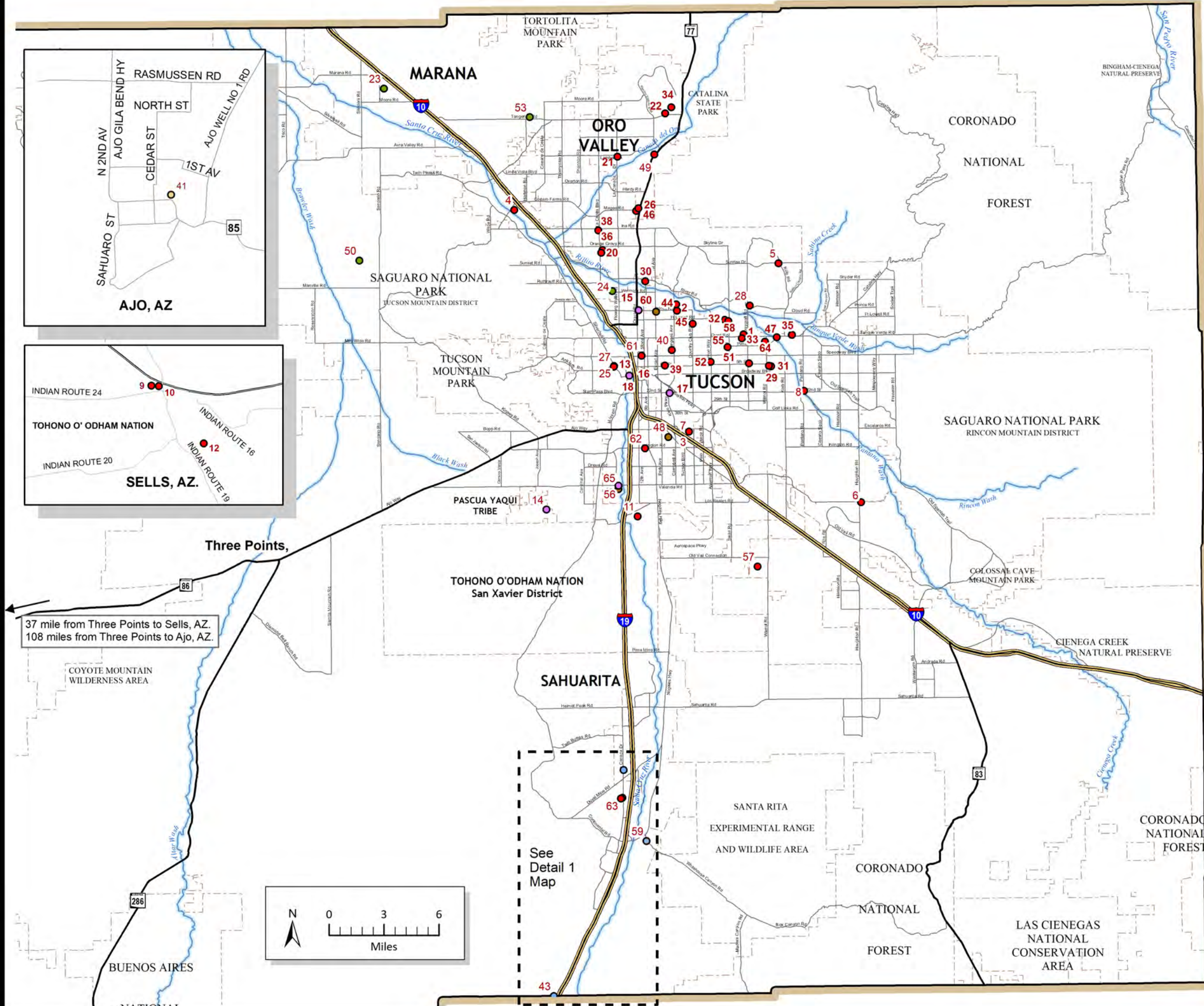
Detail 1 Map

**PIMA COUNTY**  
GEOGRAPHIC INFORMATION SYSTEMS

The information depicted on this display is the result of digital analyses performed on a variety of databases provided and maintained by several governmental agencies. The accuracy of the information presented is limited to the collective accuracy of these databases on the date of the analysis. Pima County Information Technology Department Geographic Information Systems makes no claims regarding the accuracy of the information depicted herein. This product is subject to the GIS Division Disclaimer and Use Restrictions.



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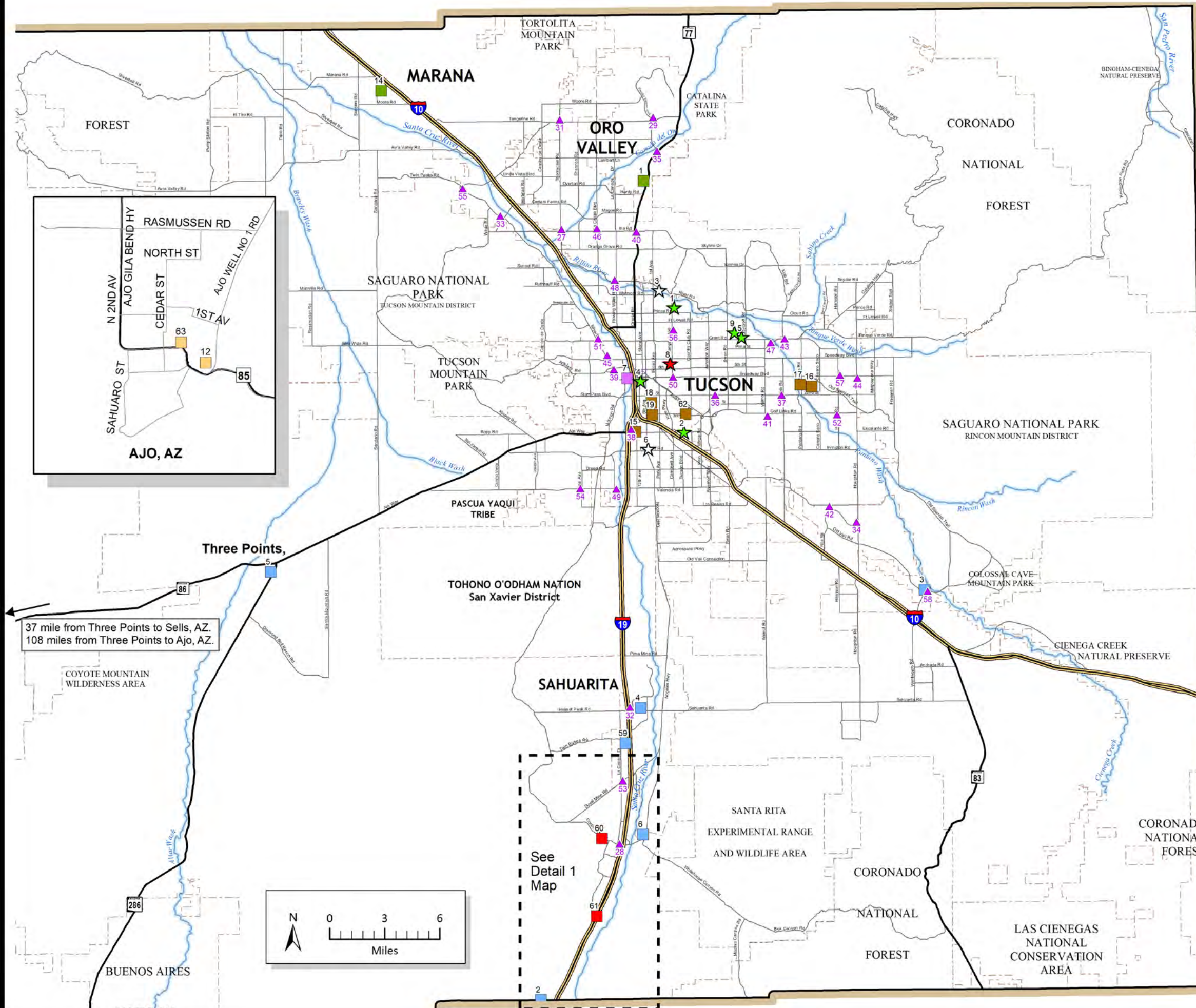


# Figure 8



# COVID-19 Vaccine Locations Pharmacy, Pods and Mobile Sites

- ★ Regional Vaccination Centers
  - ☆ Regional Vaccination Centers - Pending
  - ★ State Pod
  - ▲ Pharmacies
- Mobile Sites/Pending**
  - Desert Senita
  - El Rio Healthcare
  - GVFD/Premier
  - Marana Health Center
  - Pima County Health
  - United Community Health



Detail 1 Map

**PIMA COUNTY**  
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Date: 3/1/2021  
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# ATTACHMENT 1



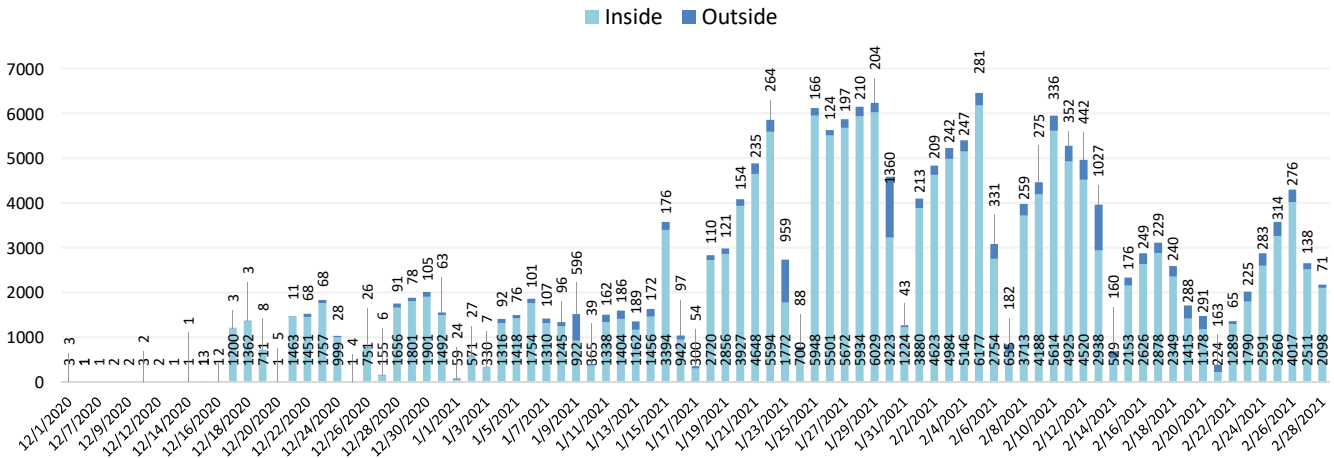
# Pima County COVID-19 Vaccination Report

March 1, 2021

**Total allocated doses administered to Pima County residents: 267,072**

As of February 28, 2021, a total of 191,367 (18.32%) Pima County residents have received their first dose of a COVID-19 vaccine. A total of 176,785 residents were vaccinated by a local provider in Pima County ("inside") and 14,582 residents were vaccinated by a provider outside of the county ("outside"). Note, dates that don't appear in graphs had zero vaccinations.

**Pima County First Dose Vaccinations by Date and by Location of Service**

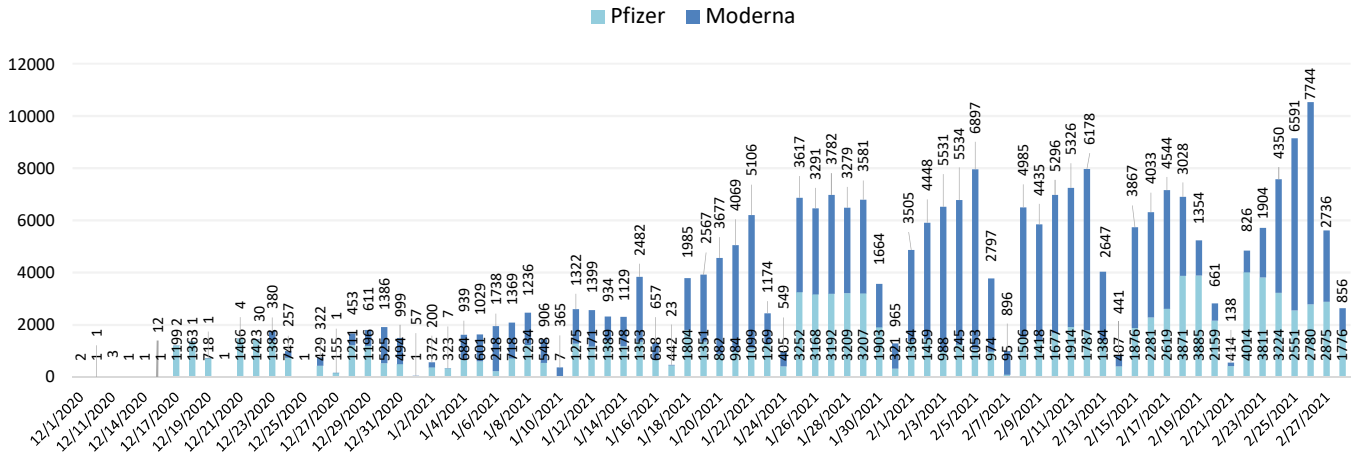


**First Time Vaccinated Residents by Gender and Age Group**

	Number vaccinated	% of residents vaccinated	2019 pop. size	% of total pop.
<b>Residents vaccinated</b>	191,367		1,044,675	18%
<b>Gender</b>				
Female	115,128	60%	530,457	51%
Male	76,020	40%	514,218	49%
Unknown	219	0%		
<b>Age group</b>				
0 - 19	1,036	1%	250,118	24%
20 - 29	15,787	8%	164,060	16%
30 - 39	20,425	11%	122,736	12%
40 - 49	20,285	11%	114,326	11%
50 - 59	21,108	11%	121,325	12%
60 - 69	30,390	16%	128,571	12%
70 - 79	52,783	28%	93,065	9%
80+	29,553	15%	50,474	5%



## Total Vaccines Administered in Pima County by Manufacturer



	Number	% administered
<b>Vaccines administered</b>	<b>267,072</b>	<b>100%</b>
<b>Manufacturer</b>		
Pfizer	105,944	40%
Moderna	161,103	60%
Other	25	0%
<b>Dose number administered</b>		
First dose	176,785	66%
Second dose	89,528	34%
Third dose	759	0%

Cumulative COVID-19 Vaccine Administered (as of the morning of 02/28/2021)

REGIONAL			
Facility	Total Vaccinated 02/26/21	Total Vaccinated 02/28/21	Vaccinations Administered Since Last Reporting Period
Tucson Medical Center	75,995	77,709	1,714
Banner South	26,422	29,454	3,032
Banner North	37,437	39,046	1,609
University of Arizona	28,465	33,914	5,449
Tucson Convention Center	23,794	25,937	2,143
DISTRIBUTED			
El Rio Health Center	4,464	4,766	302
Northwest Medical Center	2,254	2,354	100
Marana Healthcare	5,076	5,553	477
Carondelet Medical Group	1,857	1,860	3
Arizona Community Physicians	1,060	1,068	8
Desert Senita CHC	1,016	1,111	95
United CHC	3,036	3,377	341
RETAIL PHARMACIES			
CVS	11,376	13,220	1,844
Walgreens	8,834	9,998	1,164
Fry's Pharmacy	1,624	2,041	417
Safeway	1,750	2,471	721
Albertsons/Osco	528	676	148
OTHER & OTHER FIRE DEPARTMENT			
Tohono O'Odham Nation	6,106	6,527	421
Other Fire Departments	3,153	3,152	-1
Green Valley/Drexel Heights Fire District	2,977	2,976	-1
Other	1,683	2,838	163
<b>Grand Total</b>	<b>245,930</b>	<b>267,072</b>	

# ATTACHMENT 2

		Submission of ICS 209 Date																										
	15-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan														
TMC (combined)	1140	2078	1835	1373	2146	2146	619	1954		2217	1952	2166		NR														
Banner North	1409	1430	748	760	735	747	434	694		660	727	734		398														
Banner Kino		1653	948	720	488	809	443	631		718	842	789		512														
TCC	404		NR	685	980	NR	1300	1537		1025	1080	NR		1136														
UofA (combined)			NR	108	203	NR	356	631		958	812	810		0														
Total	2953	5161	3531	3646	4552	3702	3152	5447	*	5578	5413	4499	*	2046														
	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb
TMC (combined)	1035	NR	1022	1362	1365	1187		1864		1143	2008	2039	637	0	2461	2354		2202	2010	658	0	2130	1708	1160	1128			
Banner North	680	692	776	740	799	684		768	750	697	699	733	601	502	682	684		673	692	594	451	690	716	675	663			
Banner Kino	714	758	857	859	838	793		804	951	961	854	879	781	458	1011	944		820	0	0	0	0	1004	1459	1405			
TCC	811	996	1404	1312	1279	NR		1026	1002	966	972	NR	NR		599	545		939	0	0	0	0	154	1436	2135			
UofA (combined)	782	816	832	822	1013	824		819	831	894	906	1841	811	0	2088	1129		1365	1231	952	0	1390	1497	1606	1691			
Total	4022	3262	4891	5095	5294	3488	*	5281	3534	4661	5439	5492	2830	960	6841	5656		5999	3933	2204	451	4210	5079	6336	7022			