Mapping Flood Hazards and Vulnerability in the Coastal Bend

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Data to Support Community Development Block Grant

The U.S. Department of Housing and **Urban Development (HUD's) Community Development Block Grant program for long-term disaster recovery (CDBG-DR)**, are congressional appropriations made following a disaster. These CDBG-DR funds are used by states and local communities to address their unmet recovery needs stemming from Presidential disaster declaration. These funds are usually used for infrastructure, housing recovery, and economic development and revitalization. Recently a congressional appropriation was made to address hazard mitigation to enhance resilience and reduce the threat posed by future hazards.

The funds are administered by the Texas General Land Office (GLO) and an Action Plan (see link below) provides details on the proposed use of all funds, including eligibility criteria, eligible applicants, and maximum award amounts. The total allocation for the Coastal Bend is \$179,547,000.

Figure 3-16: The Aspects of Mitigation



Community Development Block Grant – Mitigation (CDBG-MIT)

Regional Mitigation Program (COG MOD):

- Each Council of Governments (COG) impacted by Hurricane Harvey will be allocated funds.
- Each COG will develop a method of distribution (MOD) to allocate funds to local units of governments.
- Each project must mitigate against one of the top two severe risks Texas experiences:
 - hurricanes/tropical storms/tropical depressions
 - severe coastal/riverine flooding
- At least 50% of funds must address mitigation needs in HUD Most Impacted and Distressed (MID) areas.
- 50% of all CDBG-MIT funds must benefit low-to-moderate income (LMI) persons.

Purpose of this Document:

This report presents data used for developing a Method of Distribution for the Coastal Bend Council of Governments, as part of a <u>Regional Resilience Partnership</u> (RRP) collaboration. The data is a combination of information that the GLO suggested COGs use, as well as other information developed by the RRP team and approved by GLO. This report provides a visualization and description of the data and their sources.

Please email RRP@tamucc.edu with any questions or suggested edits.

https://recovery.texas.gov/documents/action-plans/mitigation/mitigation-sap-amend-1.pdf

Data Description and Source

Geographic Area in Flood Hazard Zone: Percent of the land area in a flood prone area. This was calculated by comparing the extent of the Texas Floodplain Quilt within Census places and counties.

https://twdb-flood-planning-resources-twdb.hub.arcgis.com/pages/flood-hazardquilt

Population: Population data used in this document are from the 2019 and 2020 American Community Survey 5-Year Estimates. Using these data a change in Population (%) was calculated as is represented as percent-change from 2019 to 2020.

https://www.census.gov/programs-surveys/acs/data.html

Low and Moderate Income (LMI): The percentage of Low- and Moderate-income persons within a geography.

https://hudgis-hud.opendata.arcgis.com/datasets/HUD::low-to-moderate-incomepopulation-by-tract/about

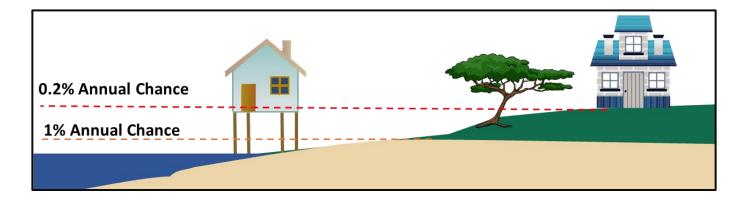
Social Vulnerability Index (SoVI): SoVI is an index that provides a measure of social vulnerability. The index uses a ranking system ranging from 1-5 representing Low to High vulnerability. This dataset, published in 2016, was compiled from both the 2010 U.S. Decennial Census and 5-year estimates from the American Community Survey (ACS) using detailed county boundaries.

https://sc.edu/study/colleges_schools/artsandsciences/centers_and_institutes/hvri /documents/sovi/sovi_recipe_2016.pdf

Declared Disasters- The number of declared disasters summarized by Census Place was obtained from the FEMA's Individuals and Households Program and include the Count of declared disasters (2002-2019) per geography. Other measures included in this document are the Count of FEMA Individual Assistant Applicants (summarized by geography) and the number of Properties Destroyed.

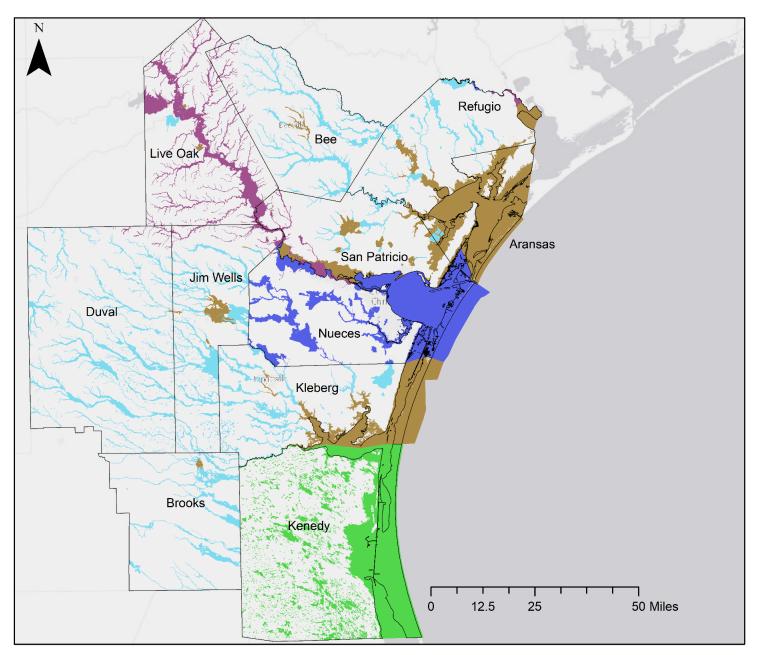
https://www.fema.gov/disaster/declarations

Floodplain and Flood Hazard Areas



- A **floodplain** is any area susceptible to flooding from any source. Potential sources include coastal storms like hurricanes with storm surge, rainfall, downstream runoff, and elevated high tides.
- Flood hazard areas are typically determined by FEMA for the development of Flood Insurance Rate Maps. These flood zones represent a flood's statistical return period or how likely it is to occur in a given period of time. The two most highly used flood return period are the 1% annual chance flood and the 0.2% annual chance flood.
- The 1% annual chance flood
 - Also known as the base flood or 100-year flood, it is a type of flood that has a one-in-100 or 1% chance of occurring in any given year. This means that over 30 years there is a 26% chance a 1% annual chance flood will occur.
 - These zones may appear labled as : Zone A, Zone AO, Zone AH, Zones A1-A30, Zone AE, Zone A99, Zone AR, Zone AR/AE, Zone AR/AO, Zone AR/A1-A30, Zone AR/A, Zone V, Zone VE, and Zones V1-V30.
 - V-zones are coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves
- The 0.2% annual-chance flood
 - Also known as a one-in-500 or 0.2% chance of occurring in any given year. This means that over 30 years there is a 5.8% chance a 0.2% annual chance flood will occur. A 0.2% annual chance flood is also known as a 500-year flood. These type of floods are considered a moderate flood hazard.
 - These zones may appear labled as: Zone B or Zone X

Texas Flood Quilt (2021): Map Source



Legend

County Boundary

Texas 2021 FloodQuilt Source Data SOURCE

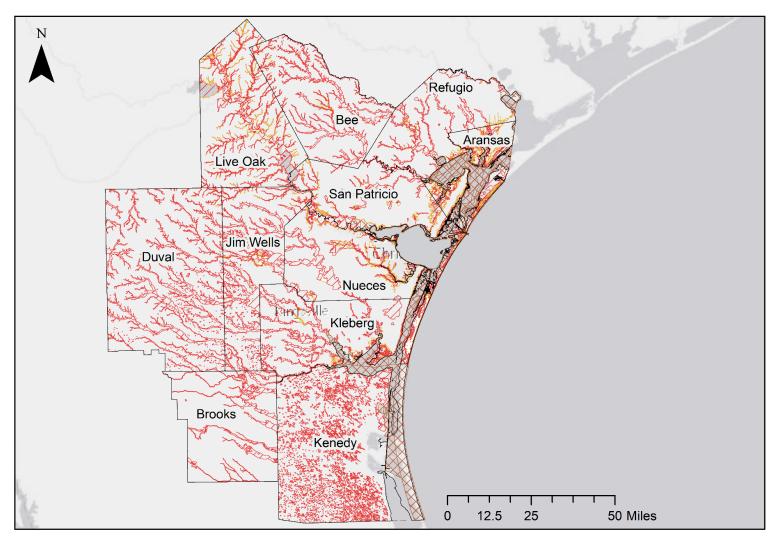


The floodplain quilt was developed by the Texas water Development Board and consists of multiple layers from various sources. These layers are 'quilt' together to a single flood hazard dataset. Input data for the quilt uses a ranking/prioritization method to provide the best available data at large scale. The ranking order is as follows:

- 1. National Flood Hazard Layer (NFHL) Pending Data*
- 2. National Flood Hazard Layer (NFHL) Preliminary Data*
- NHFL Effective Data (Detailed Study Areas only) *
- 4. Estimated Base Flood Elevation Viewer (BLE)*
- 5. NFHL Effective Data (Approximate Study Areas only) *
- 6. First American Flood Data Services (FAFDS)*

* See appendix for a detailed description of flood map sources (page 66) Source: https://twdb-flood-planning-resources-twdb.hub.arcgis.com/pages/flood-hazard-quilt

Texas Flood Quilt (2021): County Area in the Flood Zones



Legend

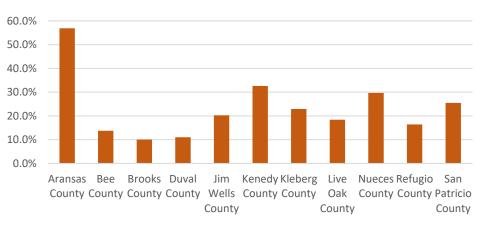
Texas 2021 Flood Quilt

Flood Zone

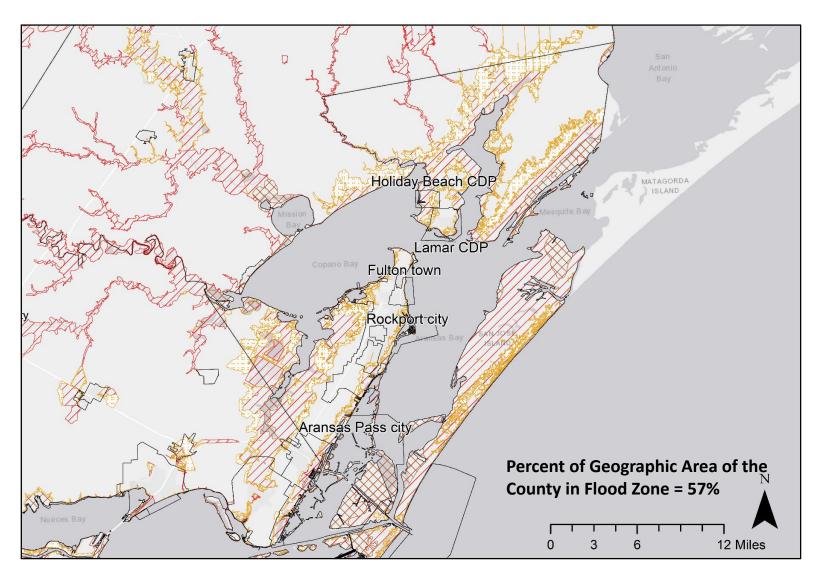
1% Annual Chance- A Zones

🔀 1% annual Chance - V zones

0.2% Annual Chance - X Zones



Percent of Area in Flood Hazard Zone: Aransas County



Legend

Flood Zone



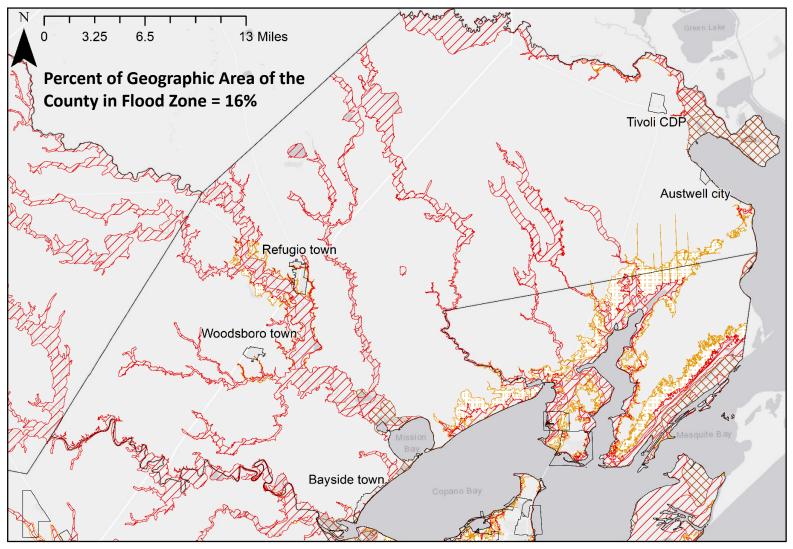
1% Annual Chance- A Zones

💥 1% annual Chance - V zones

0.2% Annual Chance - X Zones

Place Name	Percent
Holiday Beach CDP	70.4%
Lamar CDP	21.4%
Fulton town	4.6%
Rockport city	21.0%
Aransas Pass city	33.4%

Percent of Area in Flood Hazard Zone: Refugio County



Legend

Texas 2021 Flood Quilt

Flood Zone



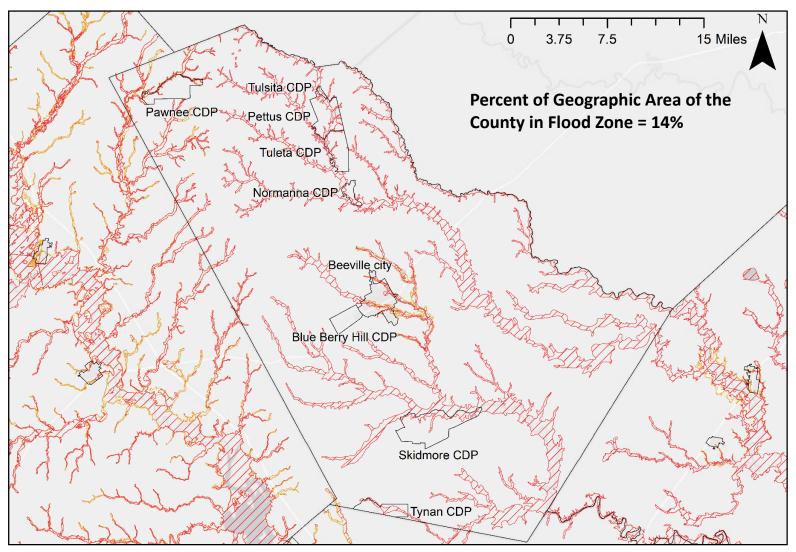
1% Annual Chance- A Zones

1% annual Chance - V zones

0.2% Annual Chance - X Zones

Place Name	Percent
Austwell city	0.0%
Bayside town	22.3%
Tivoli CDP	0.0%
Woodsboro town	1.5%
Refugio town	17.4%

Percent of Area in Flood Hazard Zone: Bee County



Legend

Texas 2021 Flood Quilt

Flood Zone



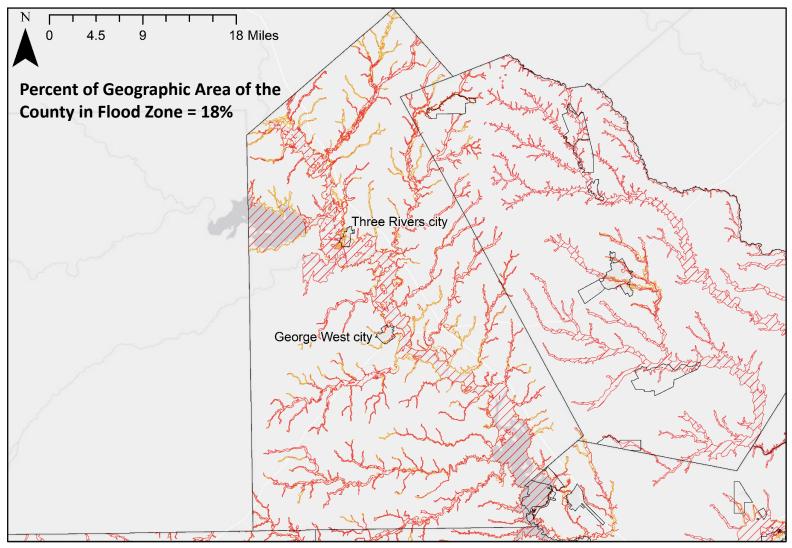
1% Annual Chance- A Zones

1% annual Chance - V zones

0.2% Annual Chance - X Zones

Place Name	Percent
Tulsita CDP	67.3%
Normanna CDP	32.6%
Pawnee CDP	11.2%
Tuleta CDP	14.9%
Tynan CDP	22.1%
Pettus CDP	25.4%
Blue Berry Hill CDP	0.0%
Skidmore CDP	20.1%
Beeville city	20.4%

Percent of Area in Flood Hazard Zone: Live Oak County



Legend

Texas 2021 Flood Quilt

Flood Zone

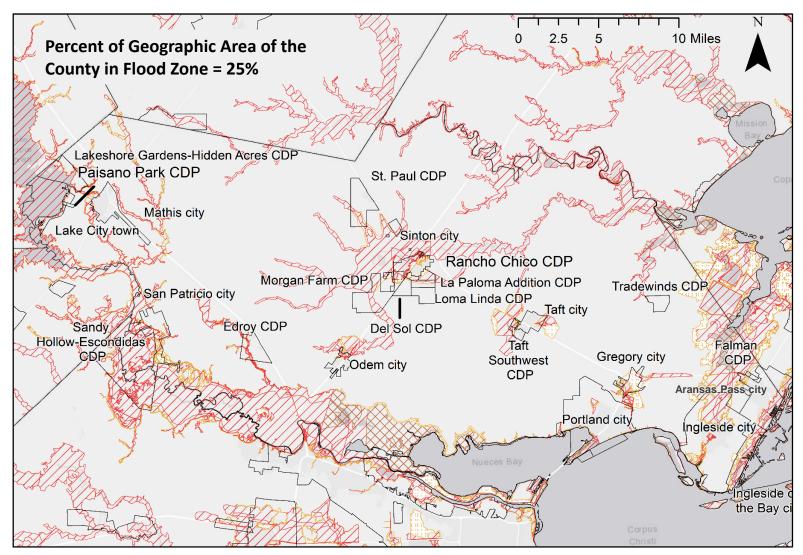
1% Annual Chance- A Zones

1% annual Chance - V zones

0.2% Annual Chance - X Zones

Place Name	Percent
George West city	67.3%
Three Rivers city	32.6%

Percent of Area in Flood Hazard Zone: San Patricio County



Legend

Texas 2021 Flood Quilt

Flood Zone



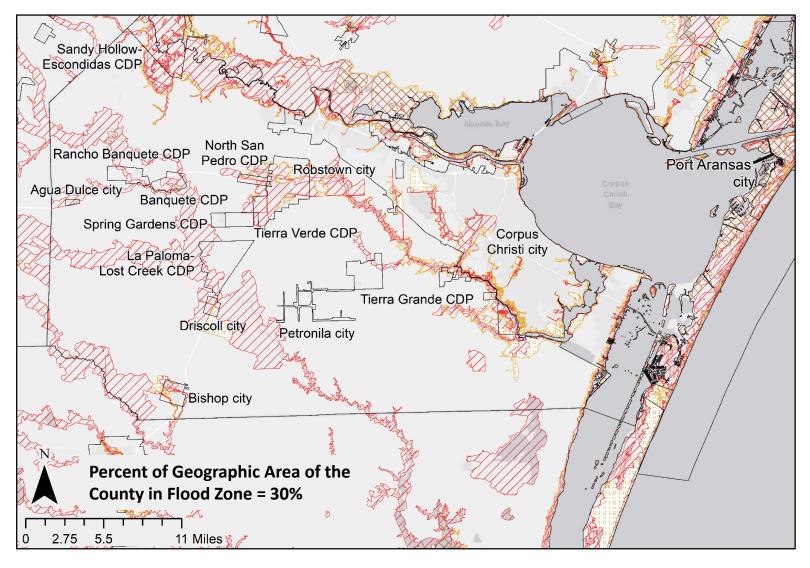
1% Annual Chance- A Zones

0.2% Annual Chance - X Zones

Percent of Geographic Area in Flood Zone- Over 40%

	Percent in
Place Name > 40% in Flood Zone*	Flood zone
Rancho Chico CDP	99.3%
Gregory city	83.0%
Falman CDP	67.0%
Lakeshore Gardens-Hidden Acres CDP	62.0%
San Patricio city	56.5%
Sinton city	56.3%
Lake City town	54.7%
La Paloma Addition CDP	42.2%

Percent of Area in Flood Hazard Zone: Nueces County



Legend

Texas 2021 Flood Quilt

Flood Zone

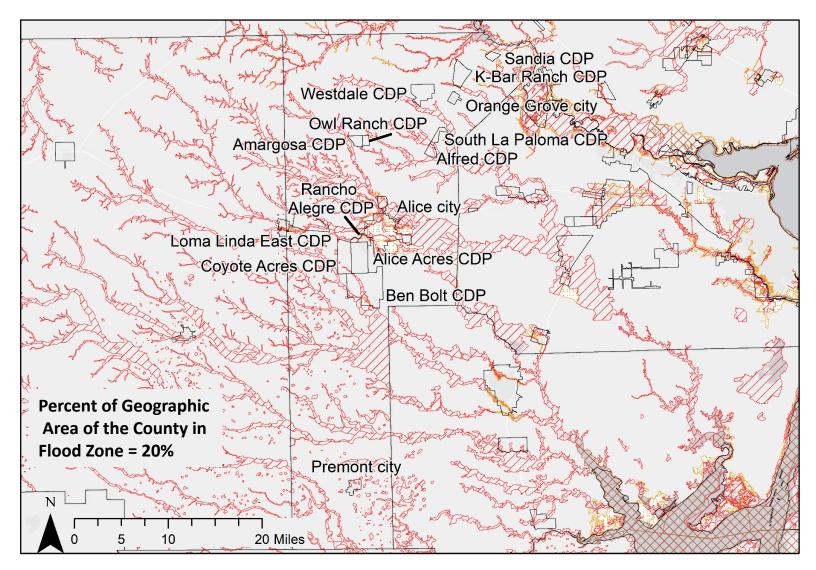


1% Annual Chance- A Zones
1% annual Chance - V zones
0.2% Annual Chance - X Zones

Percent of Geographic Area in Flood Zone- Over 30%

Place Name > 30% in Flood Zone*	Percent in Flood Zone
North San Pedro CDP	100.0%
Driscoll city	96.6%
Agua Dulce city	80.8%
Sandy Hollow-Escondidas CDP	80.6%
Port Aransas city	76.1%
Robstown city	71.3%
Banquete CDP	48.8%
Bishop city	35.5%

Percent of Area in Flood Hazard Zone: Jim Wells County



Legend

Texas 2021 Flood Quilt

Flood Zone



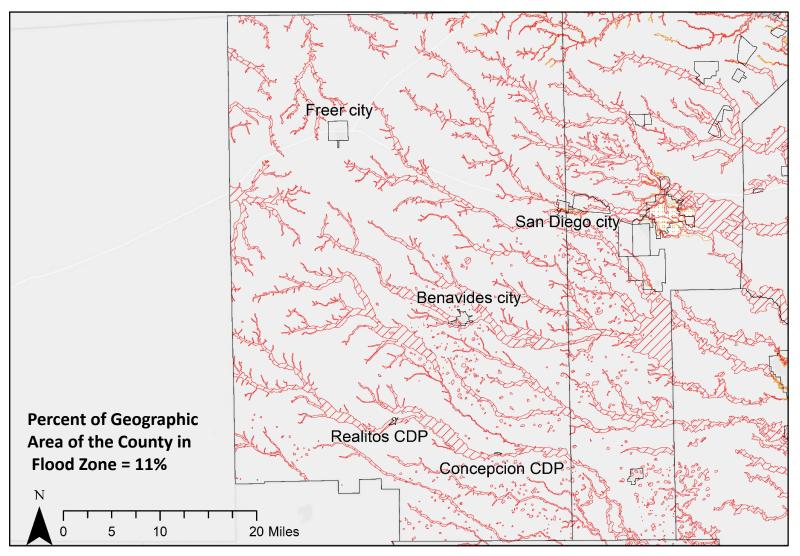
🔀 1% annual Chance - V zones

1% Annual Chance- A Zones

0.2% Annual Chance - X Zones

	Percent in Flood
Place Name > 20% in Flood Zone	Zone
Alice city	82.1%
Rancho Alegre CDP	50.8%
Premont city	36.5%
Alice Acres CDP	31.9%
San Diego city	27.1%
Orange Grove city	23.2%
Coyote Acres CDP	20.9%

Percent of Area in Flood Hazard Zone: Duval County



Legend

Texas 2021 Flood Quilt

Flood Zone



1% Annual Chance- A Zones

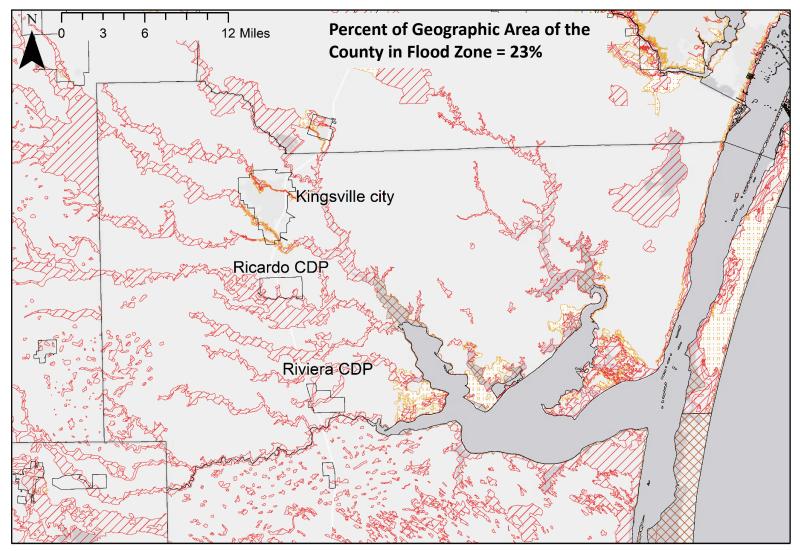
1% annual Chance - V zones

0.2% Annual Chance - X Zones

Percent of Geographic Area in Flood Zone

	Percent in Flood
Place Name	Zone
Benavides city	27.1%
Concepcion CDP	0.0%
Freer city	0.0%
Realitos CDP	50.8%
San Diego city	23.2%

Percent of Area in Flood Hazard Zone: Kleberg County



Legend

Texas 2021 Flood Quilt

Flood Zone



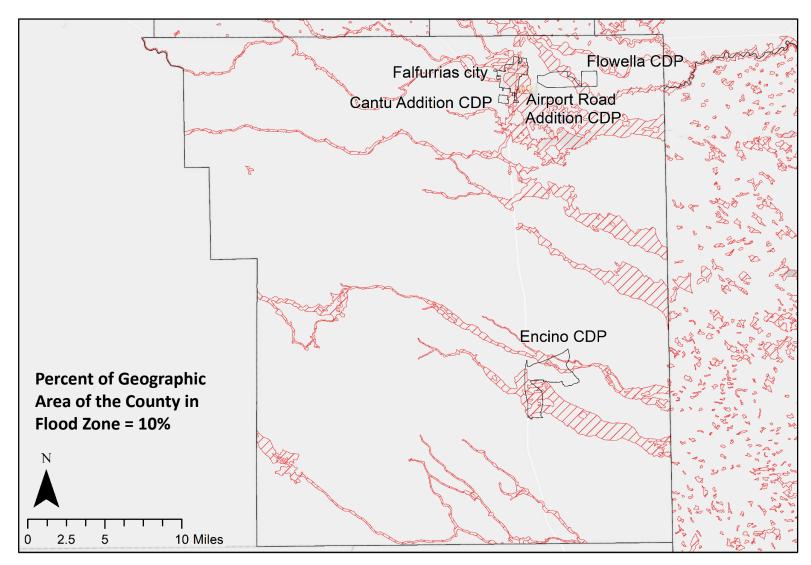
1% Annual Chance- A Zones

1% annual Chance - V zones

0.2% Annual Chance - X Zones

	Percent in
Place	Flood Zone
Kingsville city	8.9%
Ricardo CDP	15.7%
Riviera CDP	16.6%

Percent of Area in Flood Hazard Zone: Brooks County



Legend

Texas 2021 Flood Quilt

Flood Zone



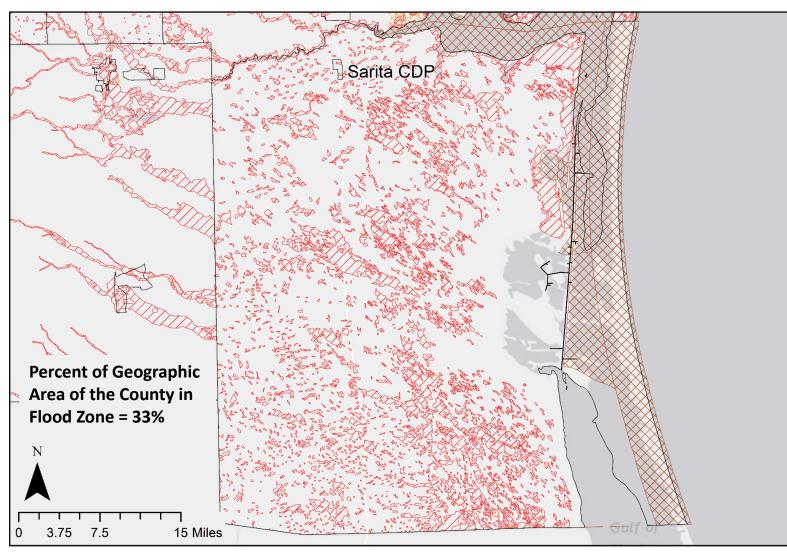
1% Annual Chance- A Zones

1% annual Chance - V zones

0.2% Annual Chance - X Zones

Place Name	Percent in Flood Zone
Falfurrias city	68.9%
Encino CDP	31.5%
Airport Road Addition CDP	18.4%
Flowella CDP	8.2%
Cantu Addition CDP	0.0%

Percent of Area in Flood Hazard Zone: Kenedy County



Legend

Texas 2021 Flood Quilt

Flood Zone



1% Annual Chance- A Zones

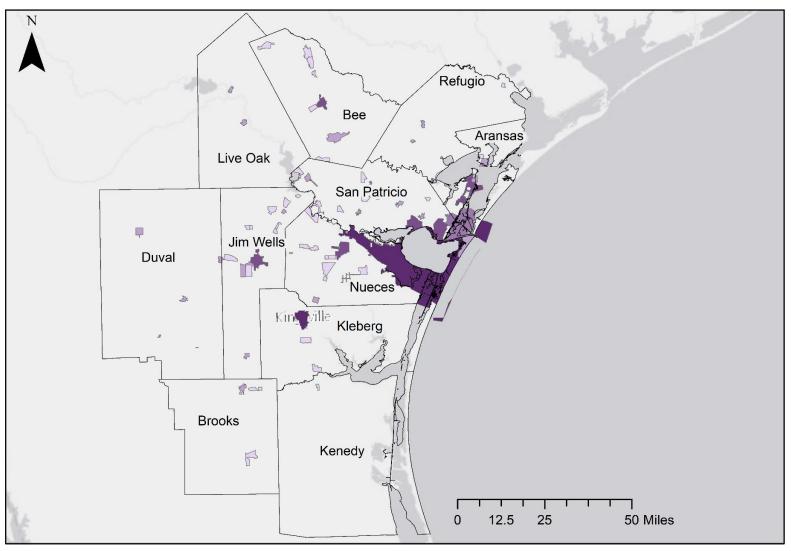
1% annual Chance - V zones

0.2% Annual Chance - X Zones

Percent of Geographic Area	in Flood Zone
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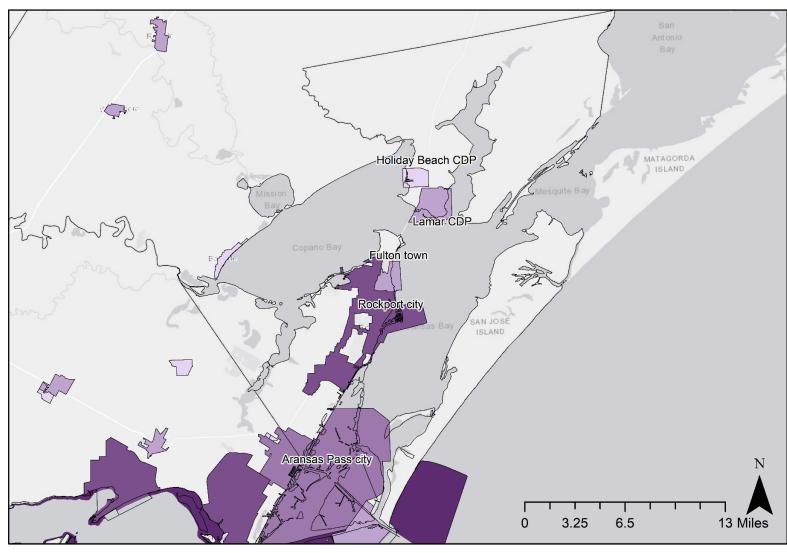
Place Name	Percent in Flood Zone
Sarita CDP	8.3%

Population: Regionwide



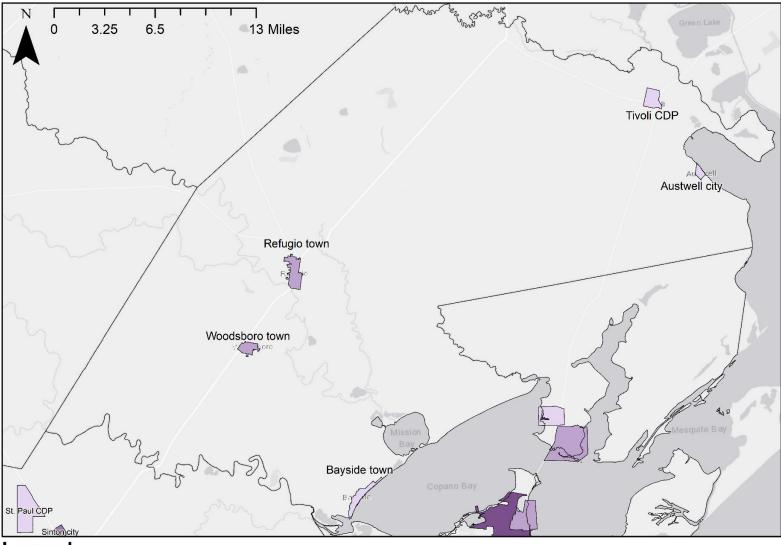
Census Place (ACS 2015-2019) Total Population	Place Name	Population (2019 ACS)	•	Percent Change (2019-2020)
	Aransas	24462	24220	-1.0%
0 - 1,000	Вее	32611	32609	0.0%
1,001 - 5,000	Brooks	7141	7100	-0.6%
5,001 - 10,000	Duval	11268	11194	-0.7%
10,001 - 25,000	Jim Wells	40972	40796	-0.4%
25,001 - 325,780	Kenedy	568	391	-31.2%
	Kleberg	30974	30725	-0.8%
	Live Oak	12139	12175	0.3%
	Nueces	361540	362151	0.2%
	Refugio	7145	7015	-1.8%
	San Patricio	67008	66969	-0.1%

Population: Aransas County



Census Place (ACS 2015-2019) Total Population	Place Name	•	Population	Percent Change (2019-2020)
0 - 1,000	Rockport city	10841	10815	-0.2%
1,001 - 5,000	Aransas Pass city	8088	9269	14.6%
5,001 - 10,000	Fulton town	1503	1202	-20.0%
10,001 - 25,000	Lamar CDP	1154	1073	-7.0%
25.001 - 325.780	Holiday Beach CDP	698	374	-46.4%

Population: Refugio County



Legend

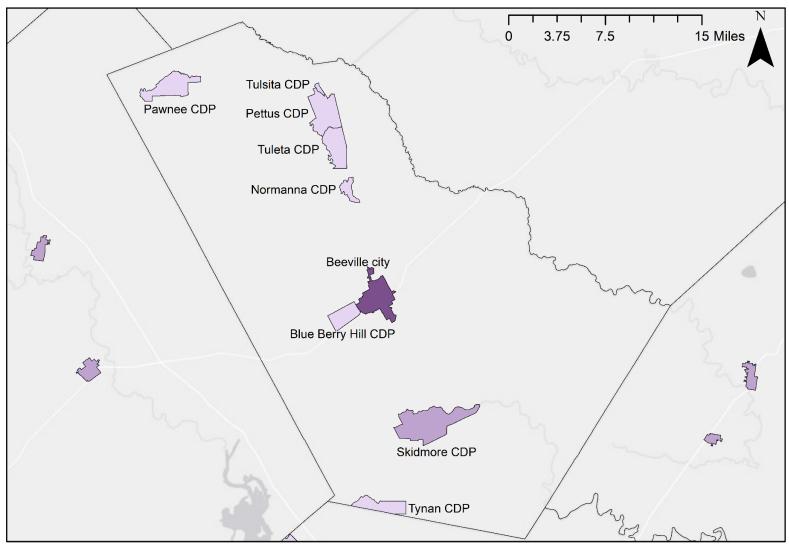
Census Place (ACS 2015-2019)

Total Population

0 - 1,000
1,001 - 5,000
5,001 - 10,000
10,001 - 25,000
25,001 - 325,780

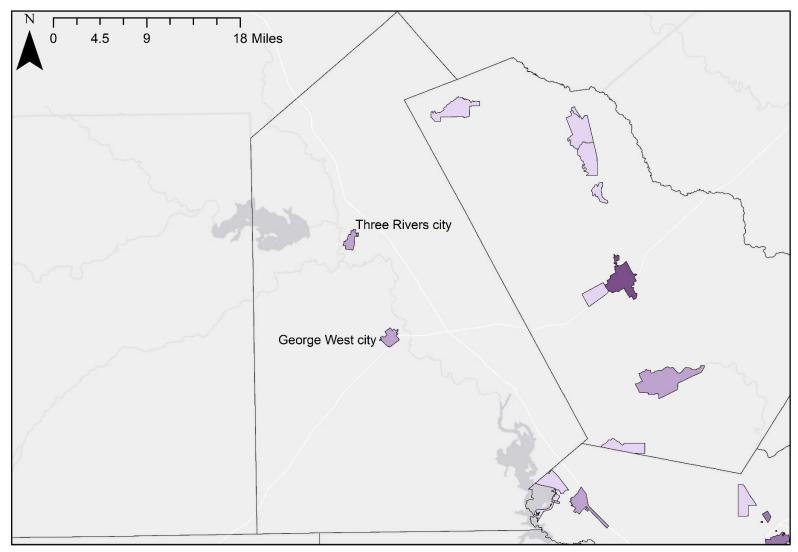
Place Name	•	Population (2020 ACS)	Percent Change (2019-2020)
Refugio town	2806	2748	-2.1%
Woodsboro			
town	1344	1441	7.2%
Tivoli CDP	527	550	4.4%
Bayside town	333	428	28.5%
Austwell city	133	118	-11.3%

Population: Bee County



Census Place (ACS 2015-2019)		•	•	Percent Change
Total Population	Place Name	(2019 ACS)	(2020 ACS)	(2019-2020)
0 - 1,000	Beeville city	12912	14261	10.4%
	Skidmore CDP	1360	1484	9.1%
1,001 - 5,000	Blue Berry Hill CDP	623	566	-9.1%
5,001 - 10,000	Pettus CDP	479	670	39.9%
10,001 - 25,000	Tynan CDP	283	223	-21.2%
25,001 - 325,780	Tuleta CDP	253	347	37.2%
	Pawnee CDP	143	85	-40.6%
	Normanna CDP	137	98	-28.5%
	Tulsita CDP	N/A	N/A	NA

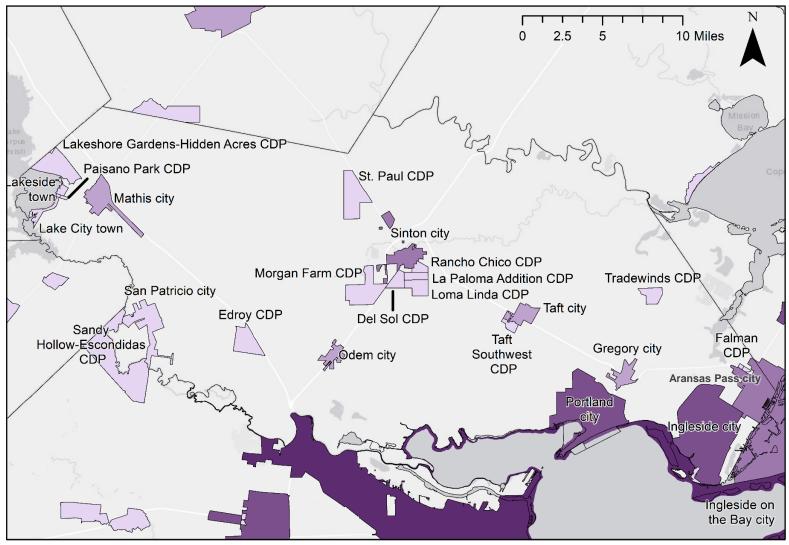
Population: Live Oak County



Census Place (ACS 2015-2019) Total Population		•	•	Percent Change (2019-2020)
0 - 1,000	George West city	2566	2571	0.2%
	Three Rivers city	1821	2067	13.5%
1,001 - 5,000				
5,001 - 10,000				

- 10,001 25,000
- 25,001 325,780

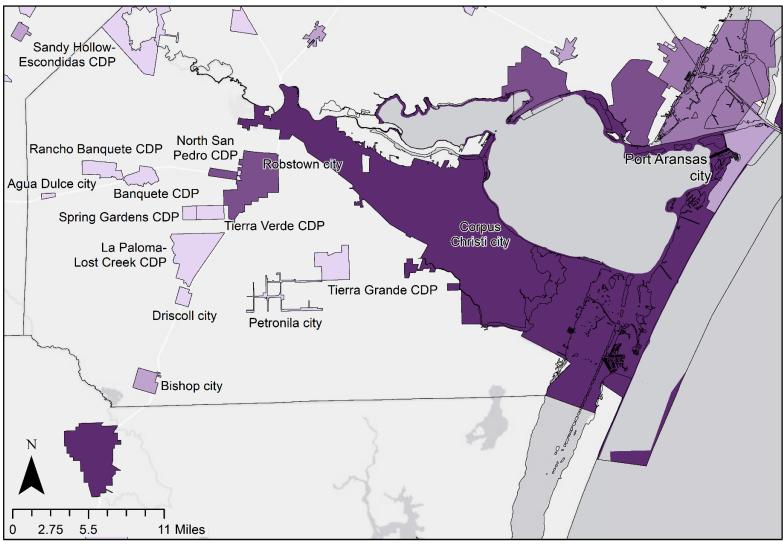
Population: San Patricio County



Legend

Census Place (ACS 2015-2019) Total Population	Place Name	•	•	Percent Change
	Pop > 800*	(2019 ACS)	(2020 ACS)	(2019-2020)
0 - 1,000	Portland city	17025	17807	4.6%
1,001 - 5,000	Ingleside city	10165	9768	-3.9%
5,001 - 10,000	Sinton city	5504	5389	-2.1%
10,001 - 25,000	Mathis city	4826	4759	-1.4%
	Taft city	2945	2924	-0.7%
25,001 - 325,780	Odem city	2649	2205	-16.8%
	Gregory city	1977	2218	12.2%
	Taft Southwest CDP	982	1440	46.6%
	St. Paul CDP	966	1377	42.5%
	Ingleside on the Bay			
	city	802	762	-5.0%

Population: Nueces County



Legend

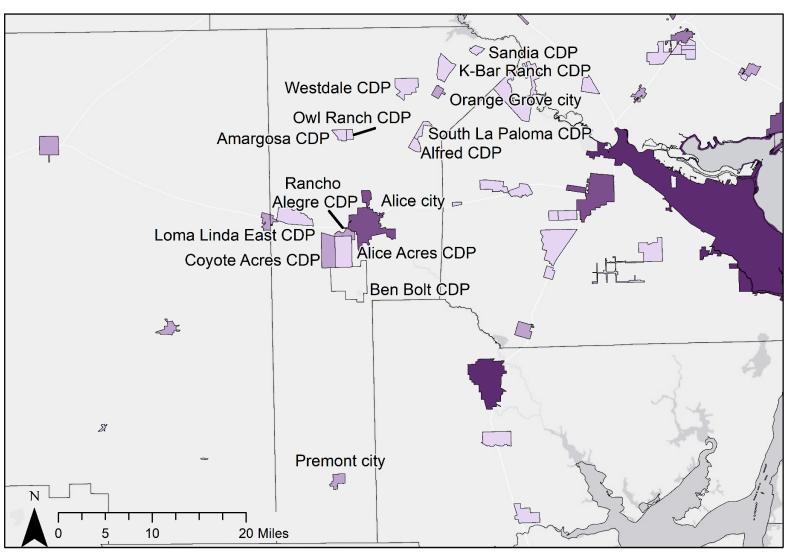
Census Place (ACS 2015-2019)

Total Population

0 - 1,000
1,001 - 5,000
5,001 - 10,000
10,001 - 25,000
25,001 - 325,780

	•	-	Percent Change (2019-2020)
Corpus Christi city	325780	326332	0.2%
Robstown city	11400	11214	-1.6%
Port Aransas city	4123	4203	1.9%
Bishop city	3093	3085	-0.3%
Agua Dulce city	871	611	-29.9%
North San Pedro CDP	645	441	-31.6%
Driscoll city	631	712	12.8%
La Paloma-Lost			
Creek CDP	613	573	-6.5%
Spring Gardens CDP	565	536	-5.1%

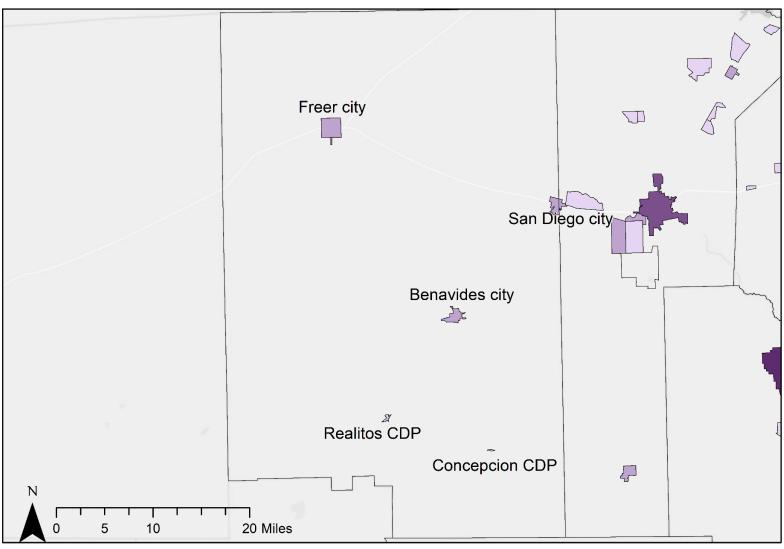
Population: Jim Wells County



Legend

Census Place (ACS 2015-2019) Total Population	Place Name Pop > 500*	Population (2019 ACS)	-	Percent Change (2019-2020)
0 - 1,000	Alice city	19007	18859	-0.8%
	Premont city	2580	2564	-0.6%
1,001 - 5,000	Orange Grove city	1418	1370	-3.4%
5,001 - 10,000	Rancho Alegre CDP	1223	769	-37.1%
10,001 - 25,000	Coyote Acres CDP	1089	1215	11.6%
25,001 - 325,780	Sandia CDP	900	837	-7.0%
	K-Bar Ranch CDP	536	362	-32.5%
	South La Paloma CDP	530	389	-26.6%

Population: Duval County



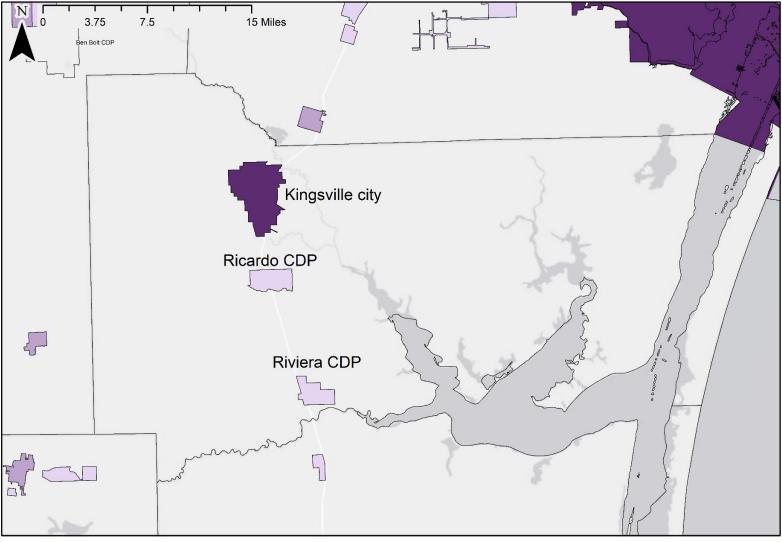
Legend

Census Place (ACS 2015-2019)

Total Pop

Population		Population	Population	Percent Change
0 - 1,000	Place Name	(2019 ACS)	(2020 ACS)	(2019-2020)
1,001 - 5,000	Concepcion CDP	61	44	-27.9%
	Realitos CDP	213	113	-46.9%
5,001 - 10,000	Benavides city	1604	2077	29.5%
10,001 - 25,000	Freer city	2686	2647	-1.5%
25,001 - 325,780	San Diego city	4018	4062	1.1%

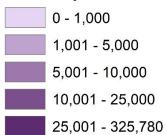
Population: Kleberg County



Legend

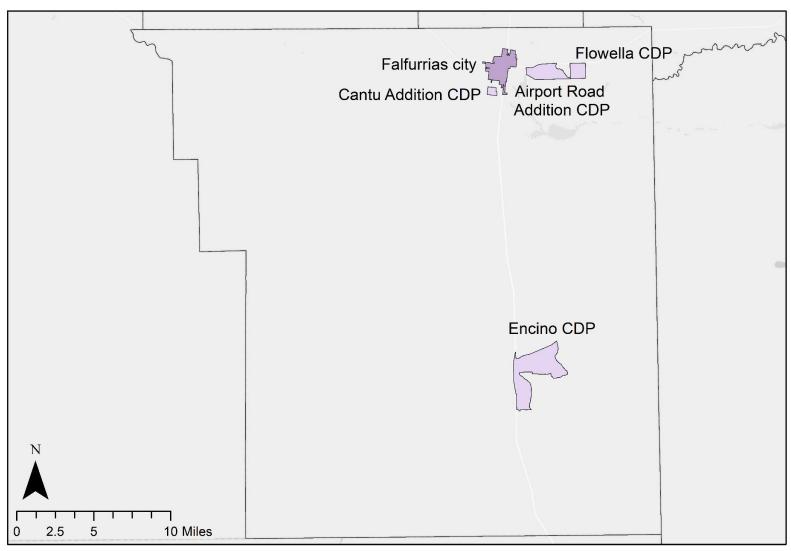
Census Place (ACS 2015-2019)

Total Population



Place Name	•	•	Percent Change (2019-2020)
Kingsville city	25605	25367	-0.9%
Ricardo CDP	674	886	31.5%
Riviera CDP	616	473	-23.2%

Population: Brooks County

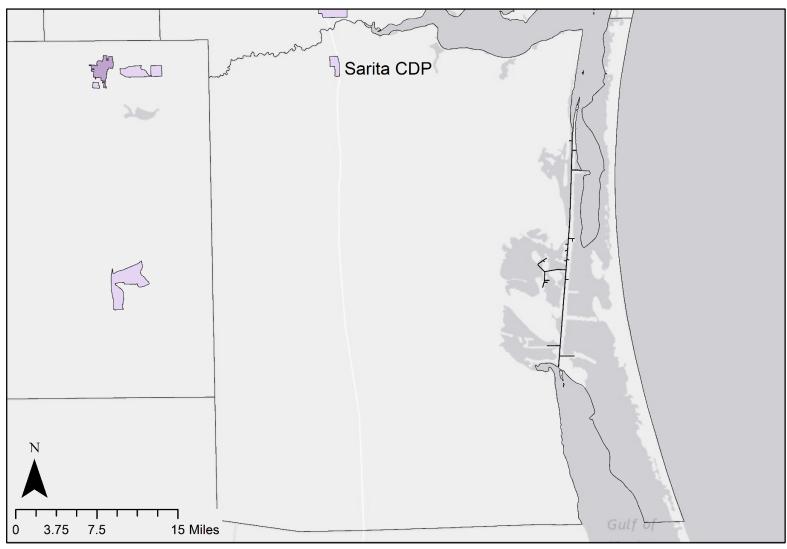


Legend

Census Place (ACS 2015-2019)

Census Place (ACS 2015-2019)		Population	Population	Percent Change
Total Population	Place Name	(2019 ACS)	(2020 ACS)	(2019-2020)
0 - 1,000	Falfurrias city	4365	4435	1.6%
1,001 - 5,000	Airport Road Addition			
5,001 - 10,000	CDP	279	246	-11.8%
	Cantu Addition CDP	92	0	-100.0%
10,001 - 25,000	Encino CDP	60	80	33.3%
25,001 - 325,780	Flowella CDP	16	21	31.3%

Population: Kenedy County



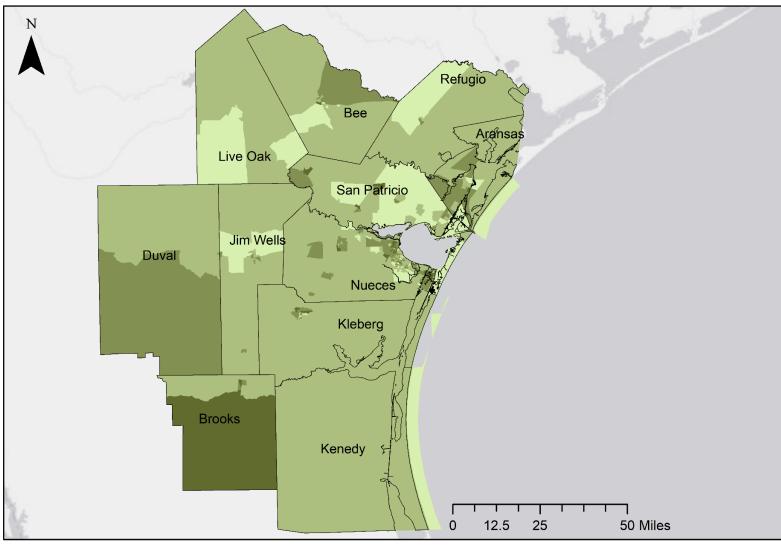
Legend

Census Pla

Census Place (ACS 2015-2019)		Population	Population	Percent Change
Total Population	Place Name	(2019 ACS)	(2020 ACS)	(2019-2020)
0 - 1,000	Sarita CDP	513	386	-24.8%

- 0 1,0
 - 1,001 5,000
 - 5,001 10,000
 - 10,001 25,000
 - 25,001 325,780

Low & Moderate Income: Regionwide



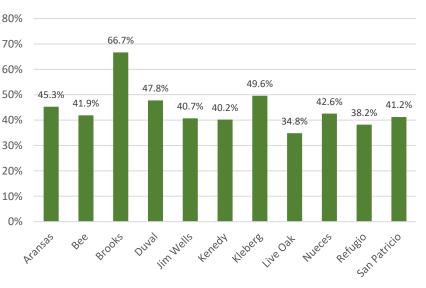
Legend

Low & Moderate Income Individuals

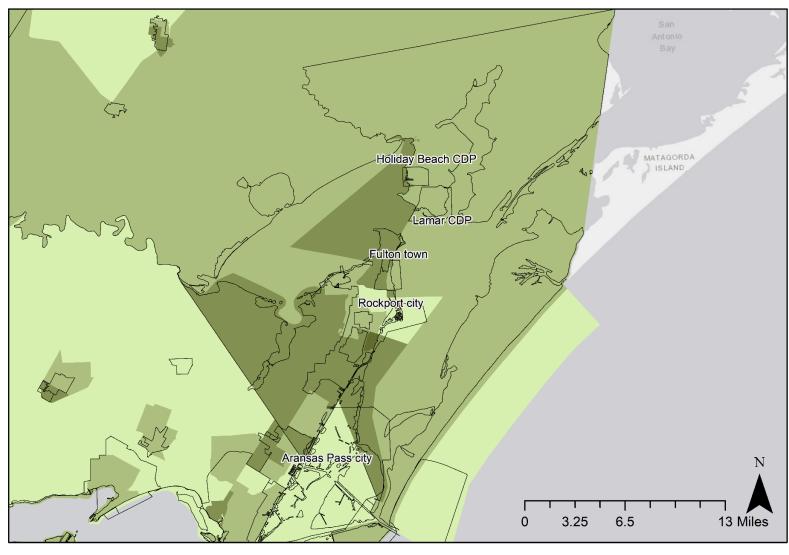
-	
	0 - 0.25
	0.26 - 0.5
	0.51 - 0.75
	0.76 - 1

These data provide estimates of the number of low- and moderate-income individuals (LMISD) by block group based on the 2011-2015 American Community Survey (ACS).

Percent LMI

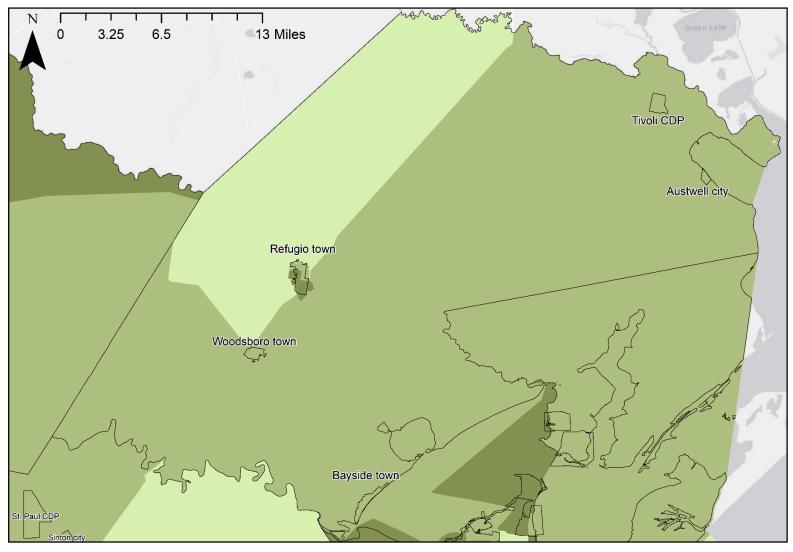


Low & Moderate Income: Aransas County



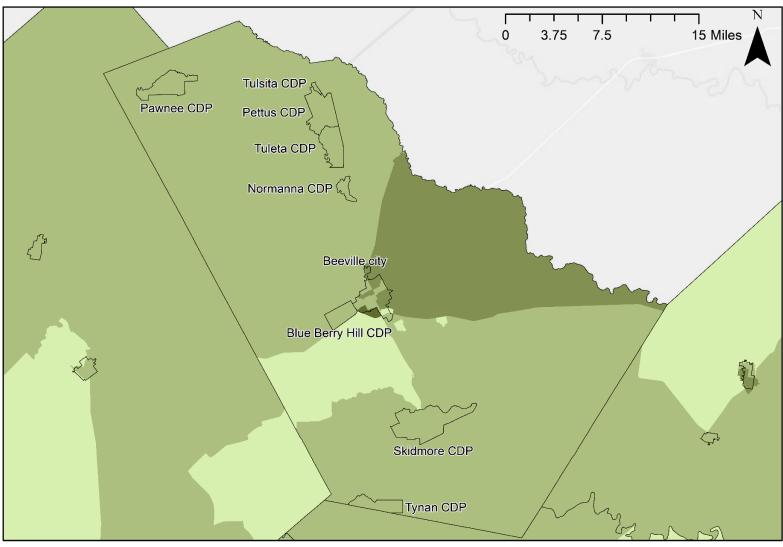
Low & Moderate Income Individuals	Place Name	Percent LMI
LMI percent	Holiday Beach CDP	59.3%
0 - 0.25 0.26 - 0.5	Fulton town	49.2%
0.51 - 0.75	Aransas Pass city	49.1%
0.76 - 1	Rockport city	41.3%
	Lamar CDP	25.4%

Low & Moderate Income: Refugio County



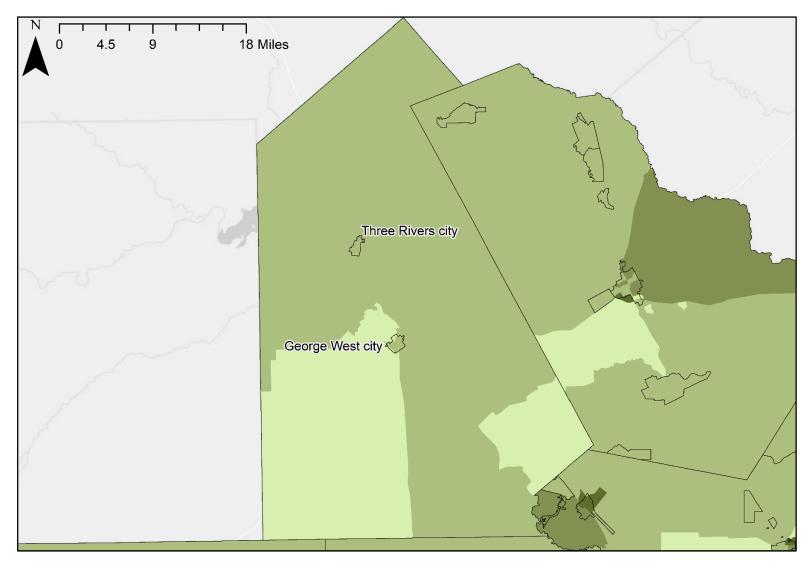
Low & Moderate Income Individuals	Place Name	Percent LMI
LMI percent	Tivoli CDP	52.9%
0 - 0.25	Refugio town	46.8%
0.26 - 0.5	Bayside town	41.0%
0.76 - 1	Austwell city	32.0%
	Woodsboro town	31.0%

Low & Moderate Income: Bee County

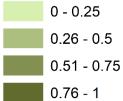


Low & Moderate Income Individuals	Place Name	Percent LMI
LMI percent	Tuleta CDP	63.6%
0 - 0.25	Blue Berry Hill CDP	62.1%
	Tulsita CDP	55.6%
0.26 - 0.5	Skidmore CDP	52.4%
0.51 - 0.75	Beeville city	47.0%
0.76 - 1	Pettus CDP	36.9%
	Tynan CDP	31.5%
	Pawnee CDP	23.5%
	Normanna CDP	15.0%

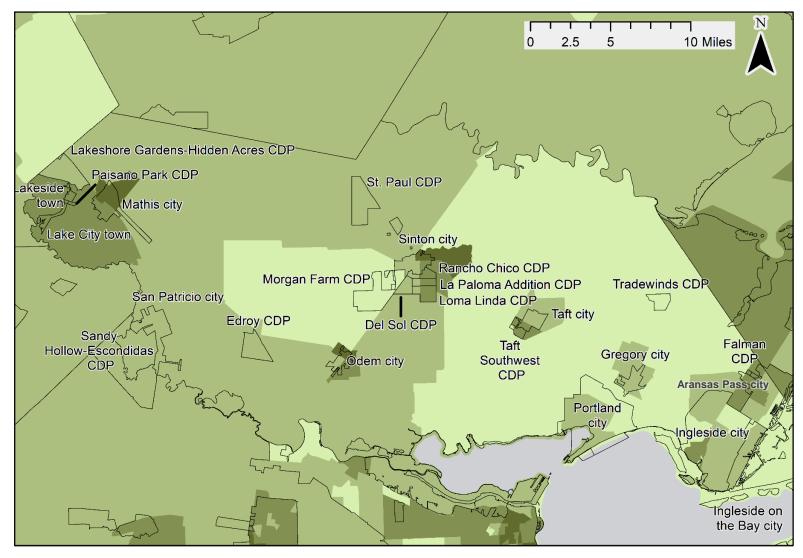
Low & Moderate Income: Live Oak County



Low & Moderate Income Individuals	Place Name	Percent LMI
	Three Rivers city	34.3%
LMI percent	George West city	31.4%
0 - 0.25		



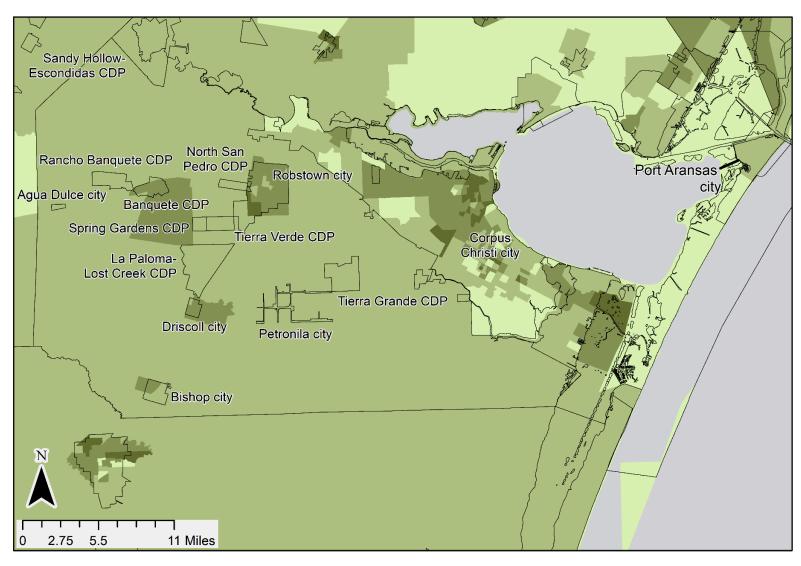
Low & Moderate Income: San Patricio County



Legend

Low & Moderate Income Individuals	Place Name with > 50% LMI*	Percent LMI
LMI percent	Edroy CDP	95.1%
0 - 0.25	Edgewater Estates CDP	88.2%
0.26 - 0.5	La Paloma Addition CDP	85.0%
0.51 - 0.75	Rancho Chico CDP	80.7%
0.76 - 1	Paisano Park CDP	68.8%
	Mathis city	67.1%
	Odem city	59.6%
	Taft Southwest CDP	56.2%
	Lake City town	55.7%
	Lakeshore Gardens-Hidden Acres CDP	50.9%
	Taft city	49.9%

Low & Moderate Income: Nueces County

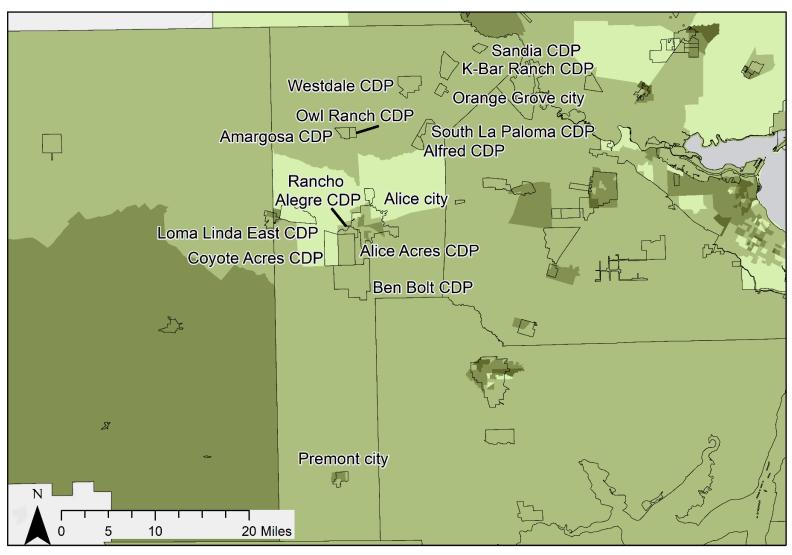


Legend

Low & Moderate Income Individuals

LMI percent	Place Name >40% LMI*	Percent LMI
0 - 0.25	Driscoll city	73.4%
0.26 - 0.5	Banquete CDP	70.8%
0.51 - 0.75	North San Pedro CDP	64.4%
0.76 - 1	Robstown city	57.7%
	La Paloma-Lost Creek CDP	45.7%
	Agua Dulce city	44.6%
	Corpus Christi city	42.2%
	Spring Gardens CDP	41.6%

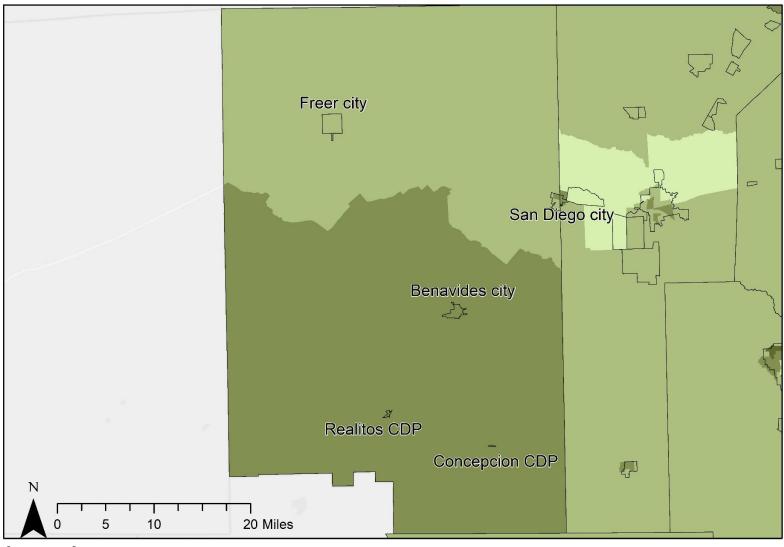
Low & Moderate Income: Jim Wells County



Legend

Low & Moderate Income Individuals	Place Name > 50% LMI*	Percent LMI
	Alfred CDP	100.0%
LMI percent	Sandia CDP	98.5%
0 - 0.25	Owl Ranch CDP	92.0%
0.26 - 0.5	South La Paloma CDP	80.0%
0.51 - 0.75	Alice Acres CDP	64.7%
0.76 - 1	Premont city	55.3%
	Rancho Alegre CDP	52.8%

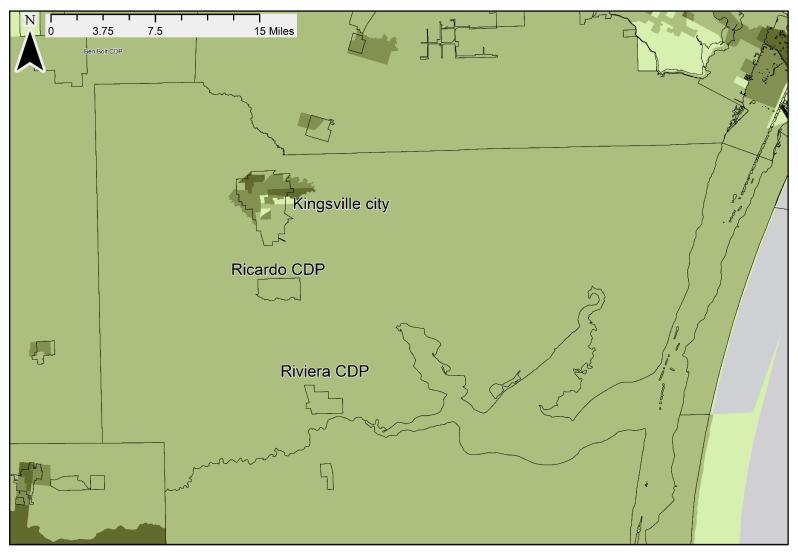
Low & Moderate Income: Duval County



Legend

Low & Moderate Income Individuals	Place	Percent LMI
LMI percent	Concepcion CDP	100.0%
0 - 0.25	Realitos CDP	88.0%
	Benavides city	56.0%
0.26 - 0.5	Freer city	34.8%
0.51 - 0.75	San Diego city	53.0%
0.76 - 1		

Low & Moderate Income: Kleberg County

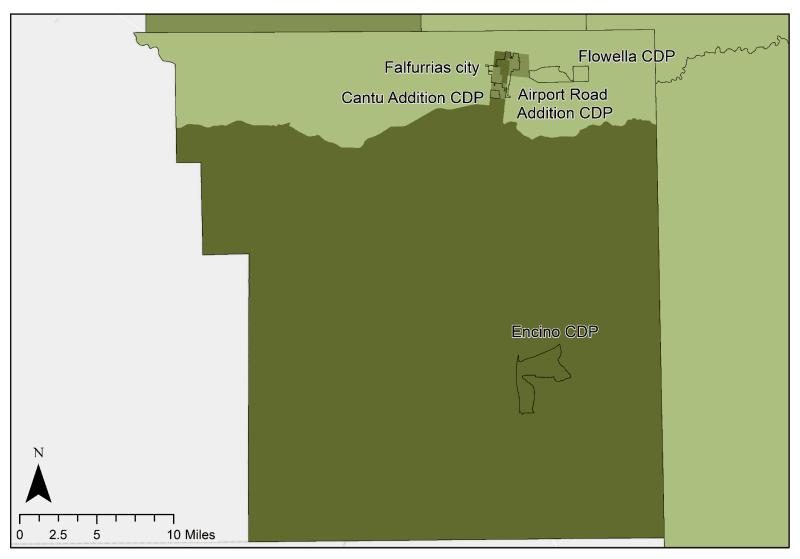


Legend

Low & Moderate Income Individuals	Place Name	Percent LMI
LMI percent	Ricardo CDP	66.9%
0 - 0.25	Kingsville city	52.2%
0.26 - 0.5	Riviera CDP	38.2%
0.51 - 0.75		

0.76 - 1

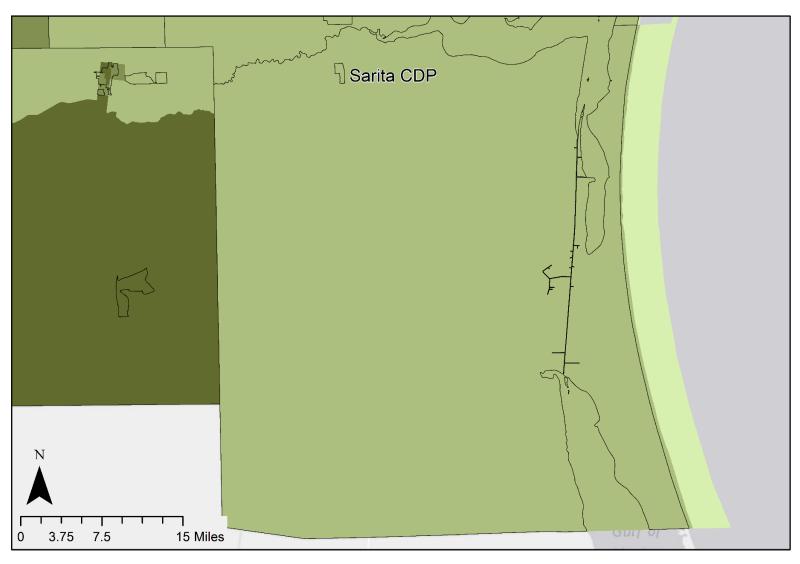
Low & Moderate Income: Brooks County



Legend

Low & Moderate Income Individuals	Place Name	Percent LMI
	Encino CDP	100.0%
0 - 0.25	Flowella CDP	92.9%
0.26 - 0.5	Cantu Addition CDP	91.9%
0.51 - 0.75	Falfurrias city	71.4%
0.76 - 1	Airport Road Addition CDP	36.4%

Low & Moderate Income: Kenedy County

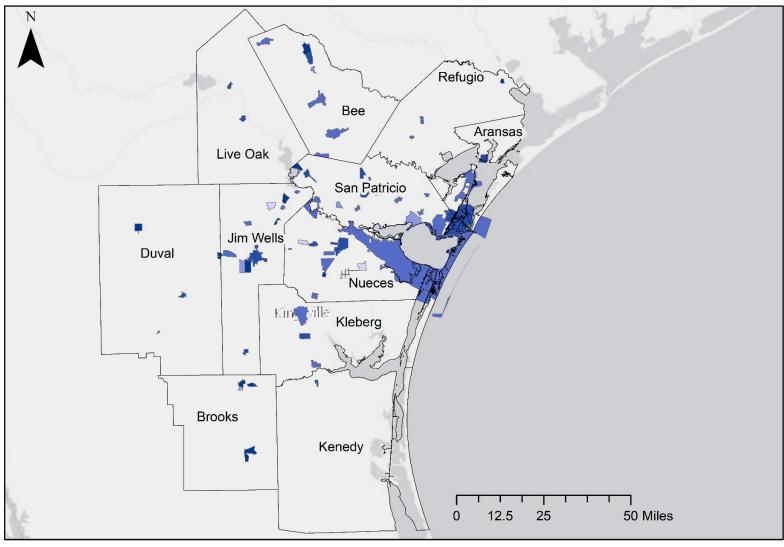


Legend

	Place Name	Percent LMI
Low & Moderate Income Individuals	Sarita CDP	44.7%
LMI percent		
0 - 0.25		
0.26 - 0.5		

0.26 - 0.5 0.51 - 0.75 0.76 - 1

Social Vulnerability Index: Regionwide



Legend

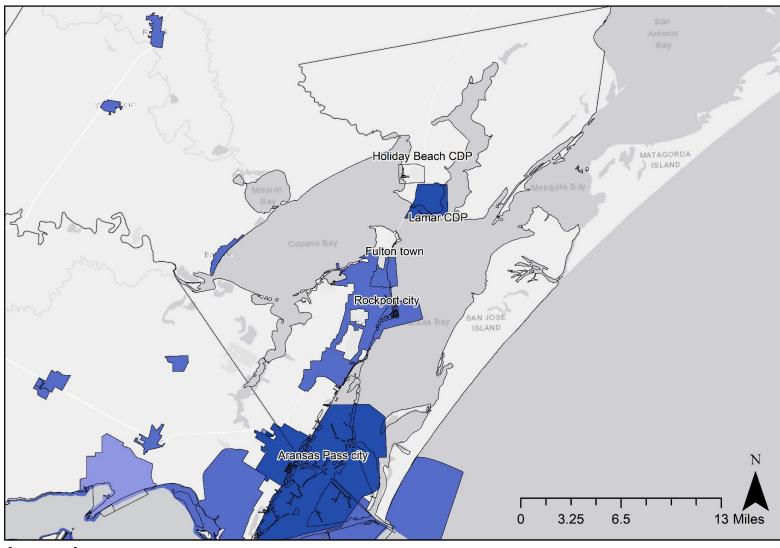
Social Vulnerability Index	County	SoVi Class
SoVI Class	Aransas County	Medium
High	Bee County	Low
Medium High	Duval County	Medium
	Jim Wells County	Medium
Medium	Kleberg County	Medium
Medium Low	Nueces County	Medium
Low	Refugio County	Medium
	San Patricio County	Medium

The Social Vulnerability Index is a measure of a community's ability to prepare for, respond to, and recover from environmental hazards. The index considers several variables related to housing, employment structure, population structure, socio-economic status, race/ethnicity and special needs.

Resources:

https://recovery.texas.gov/files/programs/mitigation/cdbg-mit-submitted-plan.pdf https://sc.edu/study/colleges_schools/artsandsciences/centers_and_institutes/hvri/documents/sovi/sovi_recipe_2016.pdf

Social Vulnerability Index: Aransas County



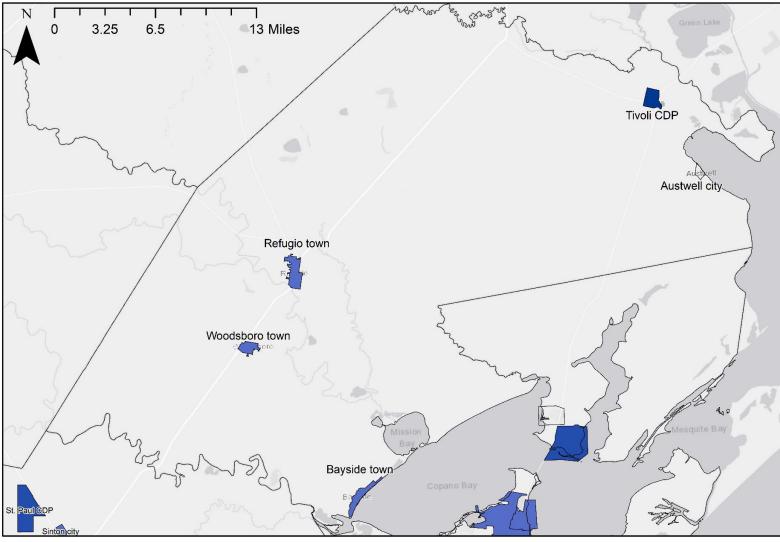
Legend

Social Vulnerability Index

SoVI Class

	Place Name	SoVI Class	SoVI Class Value
High	Lamar CDP	Medium High	4
Medium High	Aransas Pass city	Medium High	4
Medium	Fulton town	Medium	3
Medium Low	Rockport city	Medium	3
Low	Holiday Beach CDP	N/A	N/A

Social Vulnerability Index: Refugio County



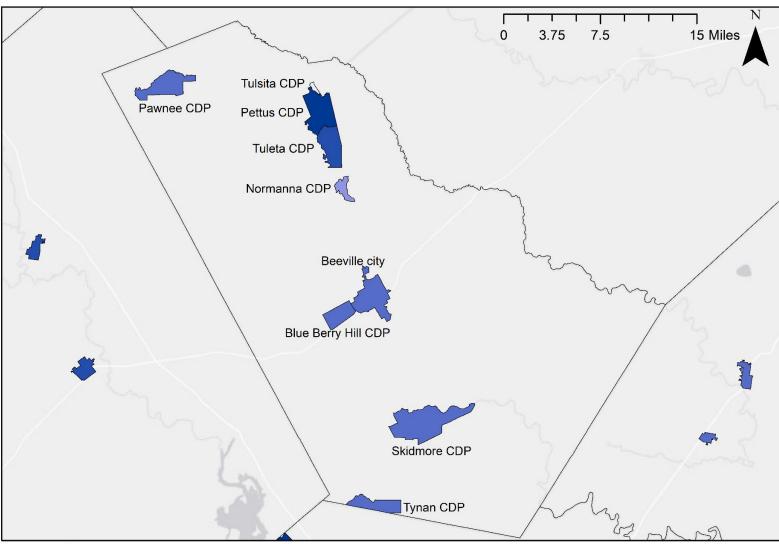
Legend

Social Vulnerability Index

SoVI Class

501		Place Name	SoVI Class	SoVI Class Value	
	High	Tivoli CDP	High		5
	Medium High	Refugio town	Medium		3
	Medium	Bayside town	Medium		3
	Medium Low	Woodsboro town	Medium		3
	Low	Austwell city	N/A	N/A	

Social Vulnerability Index: Bee County



Legend

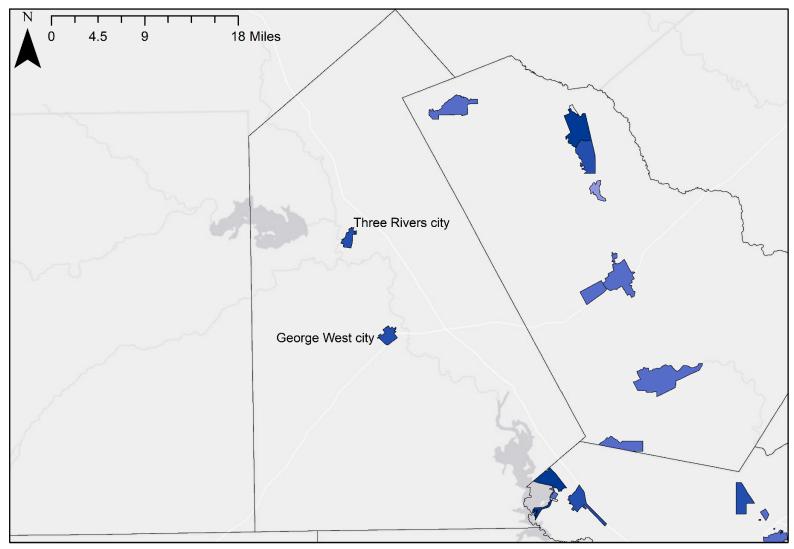
Social Vulnerability Index

SoVI	Class

High
Medium High
Medium
Medium Low
Low

Place Name	SoVI Class	SoVI Class Value
Pettus CDP	High	5
Tuleta CDP	Medium High	4
Blue Berry Hill CDP	Medium	3
Skidmore CDP	Medium	3
Beeville city	Medium	3
Tynan CDP	Medium	3
Pawnee CDP	Medium	3
Normanna CDP	Medium Low	2
Tulsita CDP	N/A	N/A

Social Vulnerability Index: Oak County



Legend

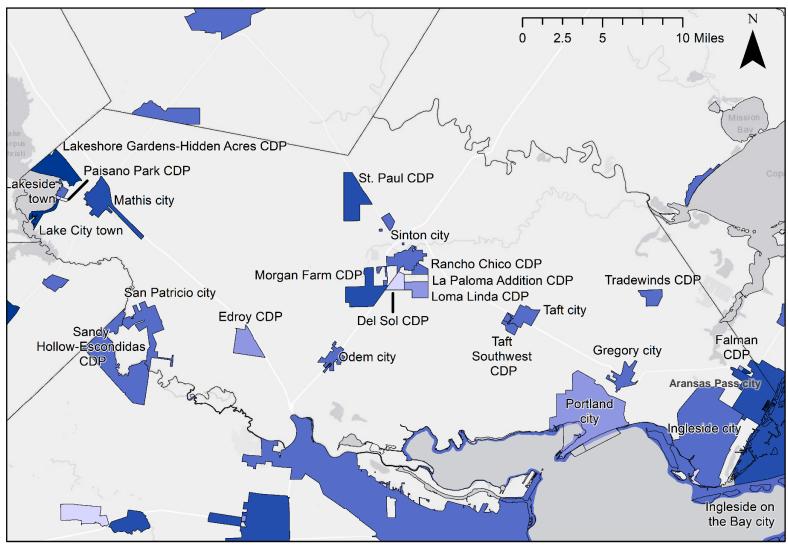
Social Vulnerability Index

SoVI Class

High Medium High Medium Medium Low Low

Place Name	SoVI Class	SoVI Class Value
Three Rivers city	Medium High	4
George West city	Medium High	4

Social Vulnerability Index: San Patricio County

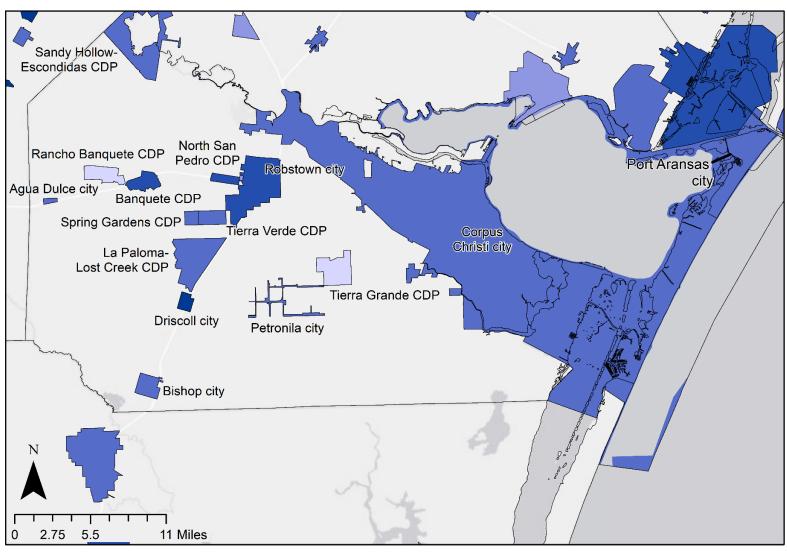


Legend

Social Vulnerability Index

SoVI Class			SoVI Class	
High	Place Name > SoVi Class 3*	SoVI Class	Number	
Medium High	Lake City town	High		5
Medium	Lakeshore Gardens-Hidden Acres CDP	High		5
Medium Low	Country Acres CDP	High		5
	Mathis city	Medium High		4
Low	Aransas Pass city	Medium High		4
	St. Paul CDP	Medium High		4
	Morgan Farm CDP	Medium High		4

Social Vulnerability Index: Nueces County

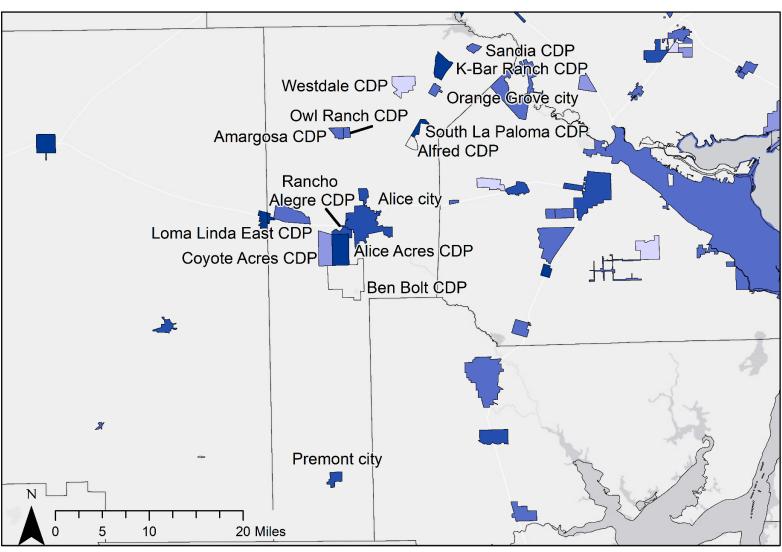


Legend

Social Vulnerability Index

· · · · · · · · · · · · · · · · · · ·				
SoVI Class				
High			SoVI Class	
Medium High	Place Name > SoVI Class 3*	SoVI Class	Number	
Medium	Driscoll city	High		5
Medium Low	Banquete CDP	Medium High		4
	Robstown city	Medium High		4
Low				

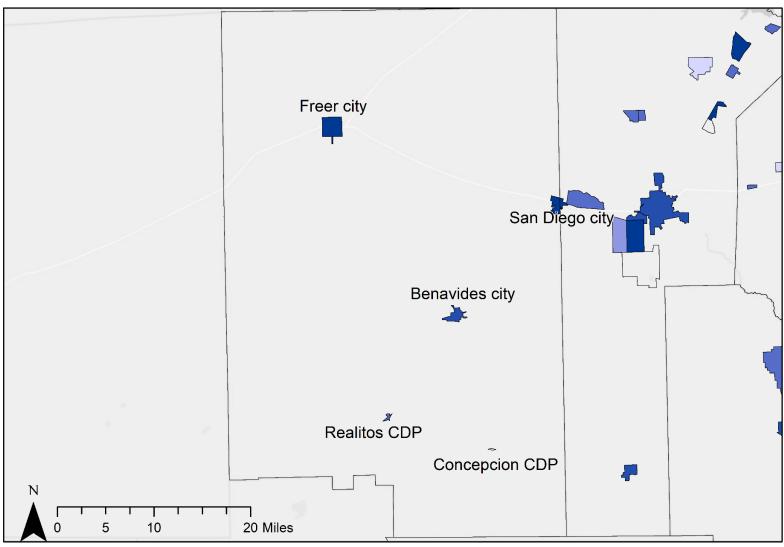
Social Vulnerability Index: Jim Wells County



Legend

Social Vulnerability Index			SoVI Class
SoVI Class	Place Name > SoVI Class 3*	SoVI Class	Number
High	South La Paloma CDP	High	5
Medium High	Alice Acres CDP	High	5
	K-Bar Ranch CDP	High	5
Medium	Premont city	Medium High	4
Medium Low	Rancho Alegre CDP	Medium High	4
Low	Alice city	Medium High	4
	Sandia CDP	Medium	3
	Owl Ranch CDP	Medium	3
	Orange Grove city	Medium	3
	Amargosa CDP	Medium	3
	Loma Linda East CDP	Medium	3

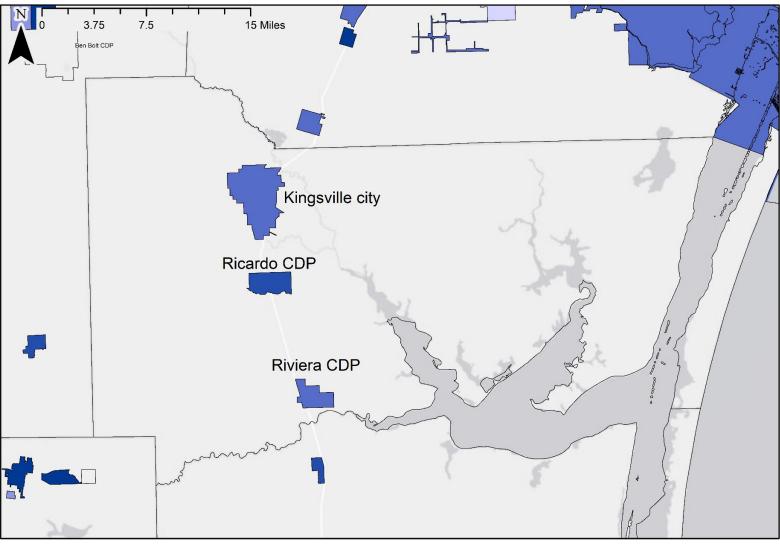
Social Vulnerability Index: Duval County



Legend

Social Vulnerability Index			SoVI Class	
SoVI Class	Place Name	SoVI Class	Number	
High	Concepcion CDP	N/A	N/A	
Medium High	Realitos CDP	Medium		3
Medium	Benavides city	Medium High		4
	Freer city	High		5
Medium Low	San Diego city	High		5
Low				

Social Vulnerability Index: Kleberg county



Legend

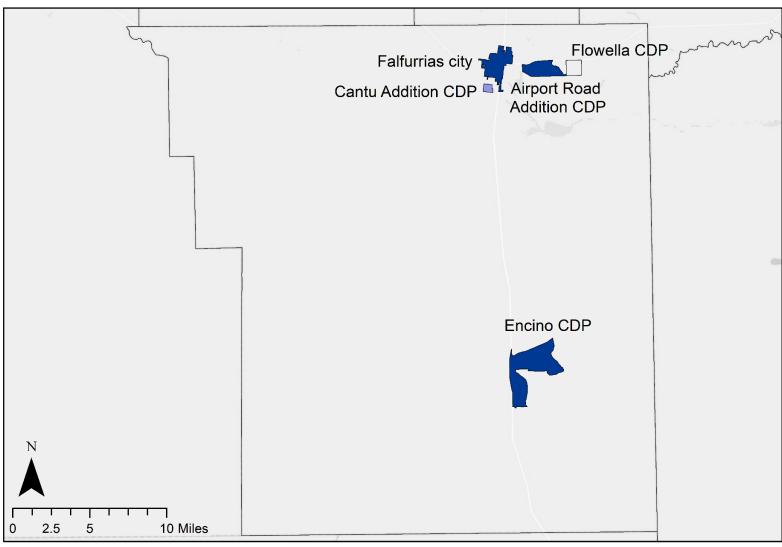
Social Vulnerability Index

SoVI Class

High
Medium High
Medium
 Medium Low
Low

Place Name	SoVI Class	SoVI Class Number
Ricardo CDP	Medium High	4
Kingsville city	Medium	3
Riviera CDP	Medium	3

Social Vulnerability Index: Brooks County



Legend

Social Vulnerability Index SoVI Class SoVI Class Place Name SoVI Class Number Encino CDP High High Falfurrias city High Medium High Airport Road Addition CDP High Medium Cantu Addition CDP Medium Low Medium Low Flowella CDP N/A N/A Low

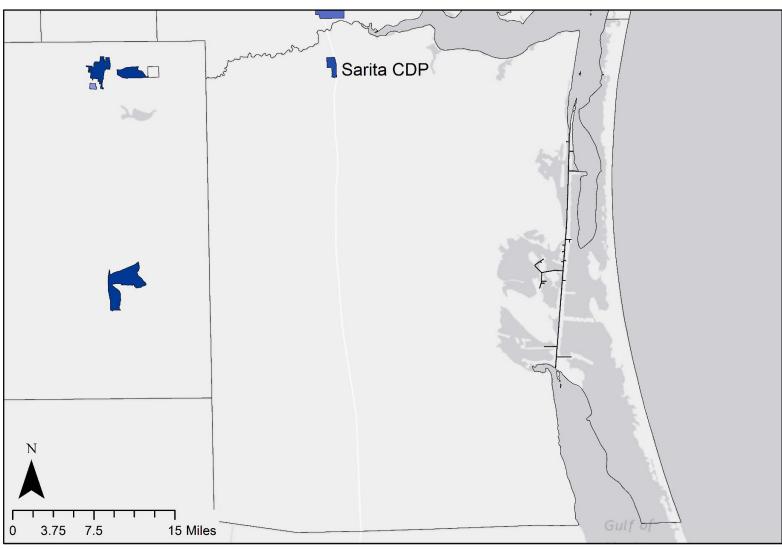
5

5

5

2

Social Vulnerability Index: Kenedy County



Legend

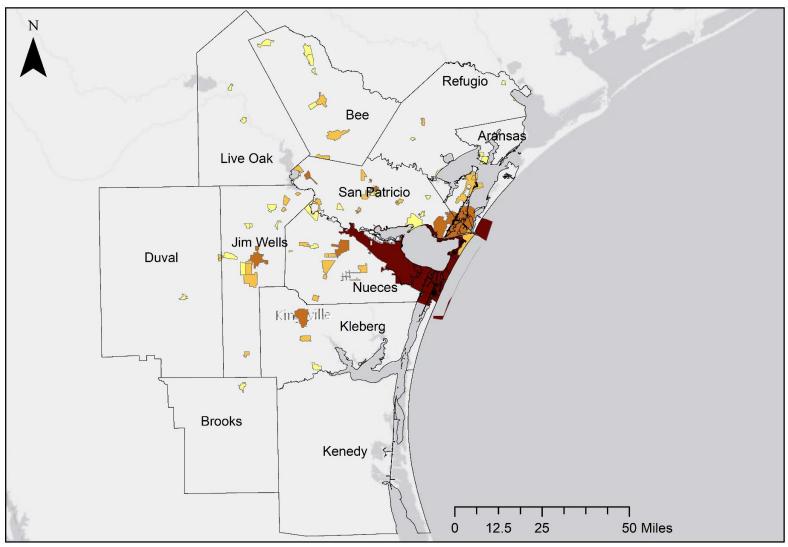
Medium

Low

Medium Low

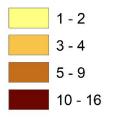
Social Vulnerability Index			SoVI Class	
SoVI Class	Place Name	SoVI Class	Number	
High	Sarita CDP	Medium High		4
Medium High				

FEMA Public Assistance Program- Declared Disasters Regionwide

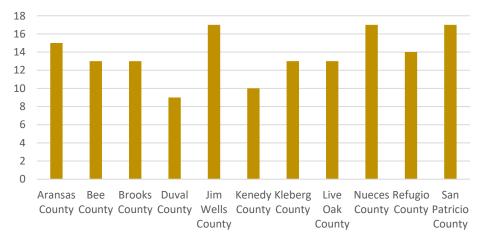


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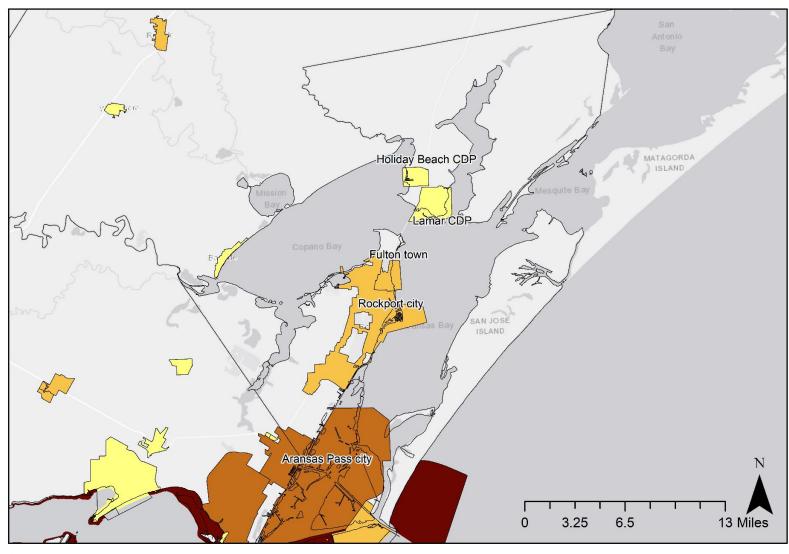
FEMA Individual Assistance Declared disasters (2002-2019)



Number of declared disasters*

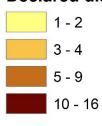


FEMA Declared Disasters: Aransas County



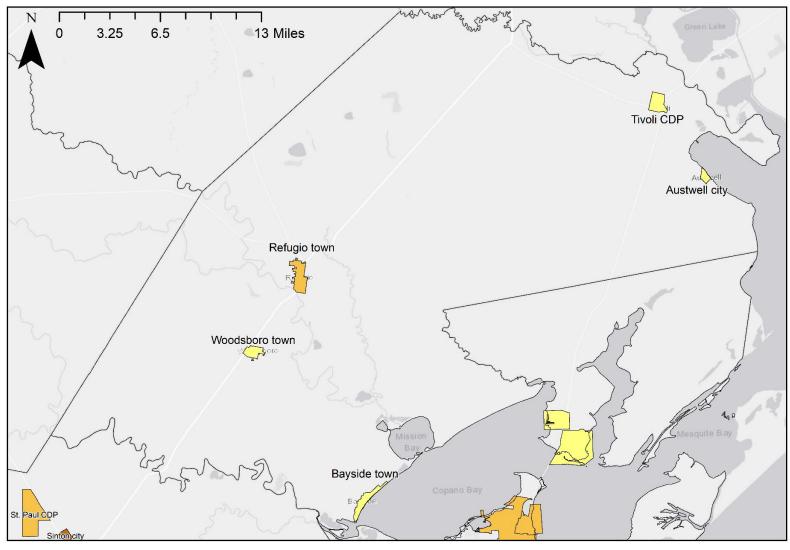
Legend

FEMA Individual Assistance Declared disasters (2002-2019)



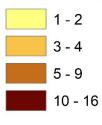
Place Name	Declared Disasters	No of Applicants	Properties Destroyed
Rockport city	4	5770	160
Aransas Pass city	7	4244	60
Fulton town	3	1195	29
Holiday Beach CDP	2	583	21
Lamar CDP	1	465	4

FEMA Declared Disasters: Refugio County



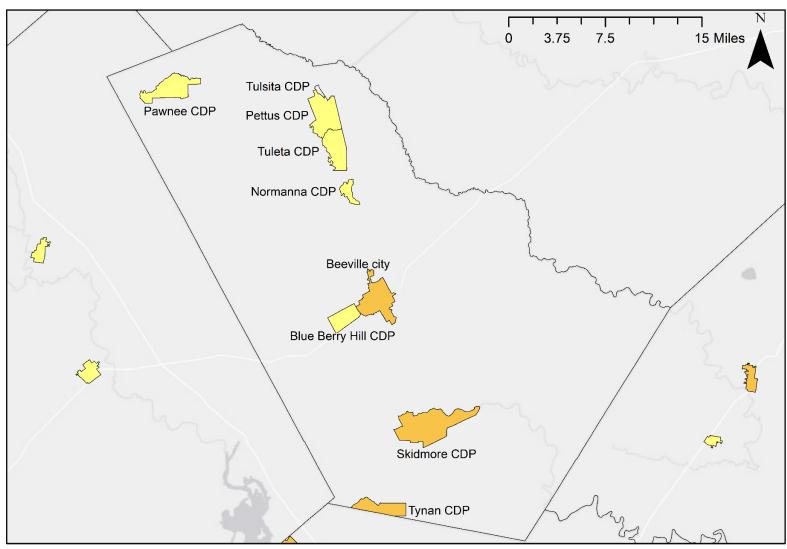
Legend

FEMA Individual Assistance Declared disasters (2002-2019)



Place Name	Declared Disasters		Properties Destroyed
Refugio town	3	1261	8
Woodsboro town	2	671	3
Tivoli CDP	2	237	9
Bayside town	1	213	9
Austwell city	2	106	0

FEMA Declared Disasters: Bee County

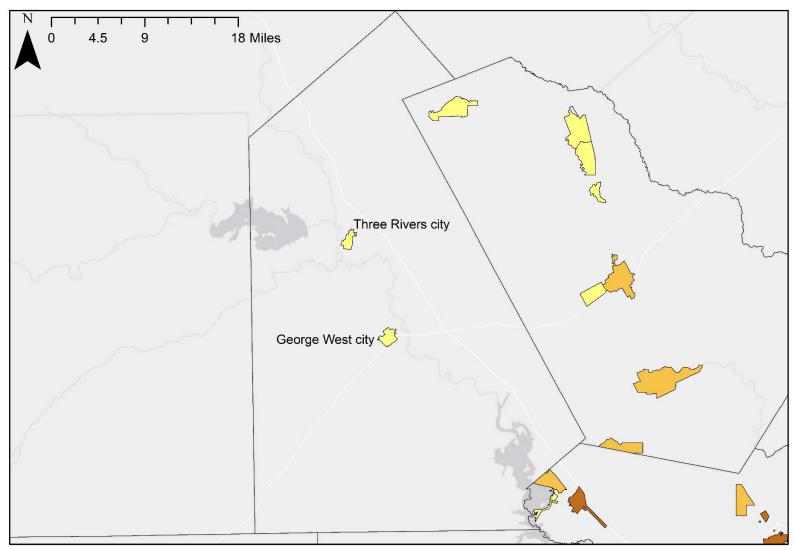


Legend

FEMA Individual Assistance Declared disasters (2002-2019)

Declared disasters (2002-2019)					
1 - 2		Declared	No of	Properties	
3 - 4	Place Name	Disasters	Applicants	Destroyed	
5 - 9	Beeville city	4	1890		1
	Skidmore CDP	3	209		0
10 - 16	Blue Berry Hill CDP	2	169		0
	Tynan CDP	3	106		0
	Pettus CDP	2	104		0
	Pawnee CDP	2	64		0
	Tuleta CDP	2	53		0
	Normanna CDP	2	24		0
	Tulsita CDP	N/A	N/A	N/A	

FEMA Declared Disasters: Live Oak County



Legend

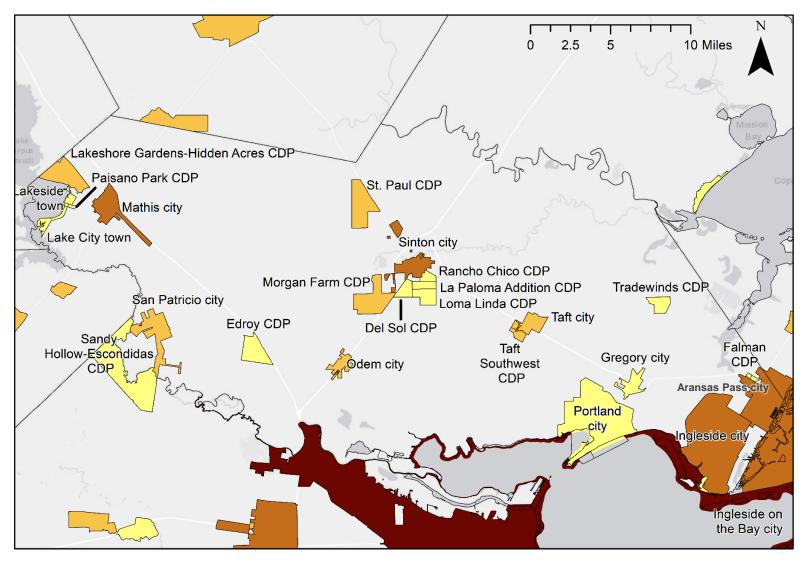
FEMA Individual Assistance

FEMA Individual Assistance Program

Declared disasters (2002-2019)

1 - 2		Declared	No of	Properties	
3 - 4	Place Name	Disasters	Applicants	Destroyed	
5-9	George West city	2	86		0
	Three Rivers city	1	. 16		0
10 - 16					

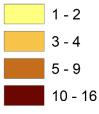
FEMA Declared Disasters: San Patricio County



Legend

FEMA Individual Assistance

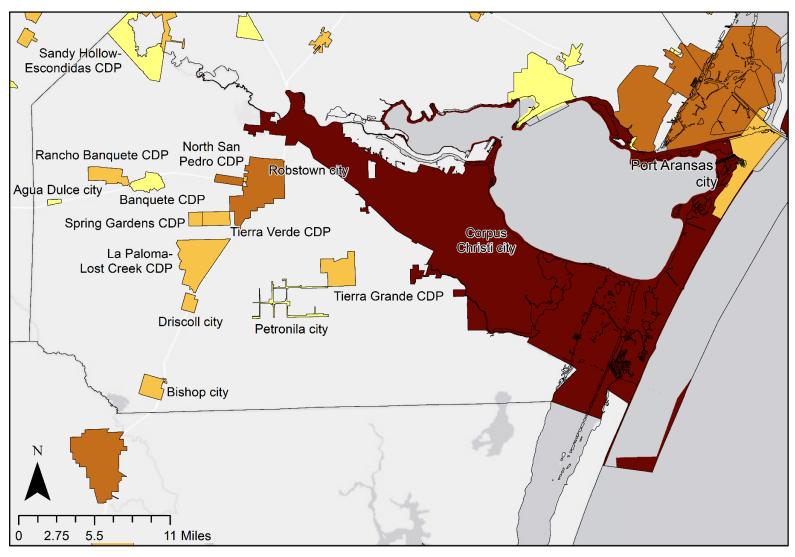
Declared disasters (2002-2019)



FEMA Individual Assistance Program

	Declared	No of	Properties
Place Name > 200 Applicants*	Disasters	Applicants	Destroyed
Portland city	2	3308	0
Ingleside city	6	3123	17
Mathis city	6	1290	0
Sinton city	6	1078	0
Taft city	4	1044	1
Taft Southwest CDP	4	631	4
Gregory city	1	607	3
Odem city	3	423	0
Ingleside on the Bay city	2	231	0

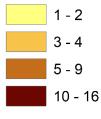
FEMA Declared Disasters: Nueces County



Legend

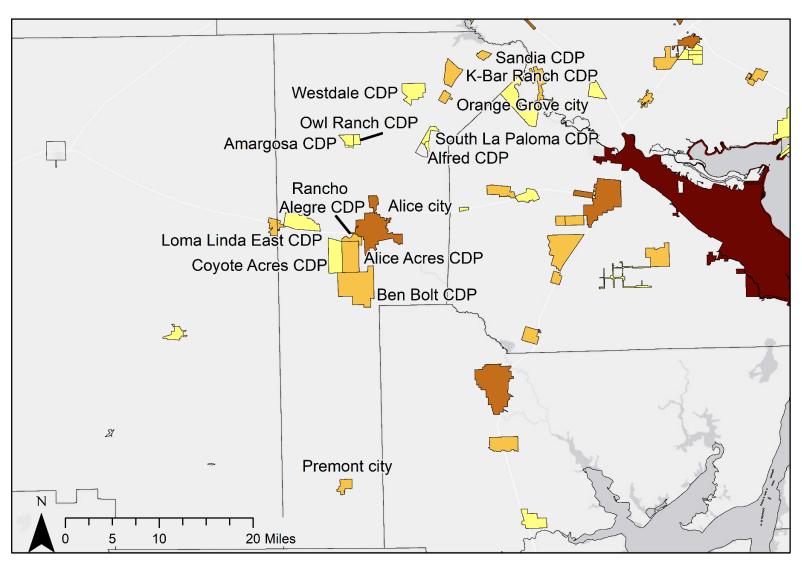
FEMA Individual Assistance

Declared disasters (2002-2019)



Place Name > 200 Applicants*	Declared Disasters	No of Applicants	Properties Destroyed
Corpus Christi city	16	55573	10
Robstown city	7	4454	0
Port Aransas city	3	2753	88
North San Pedro CDP	4	402	0
Bishop city	4	313	0

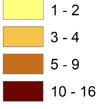
FEMA Declared Disasters: Jim Wells County



Legend

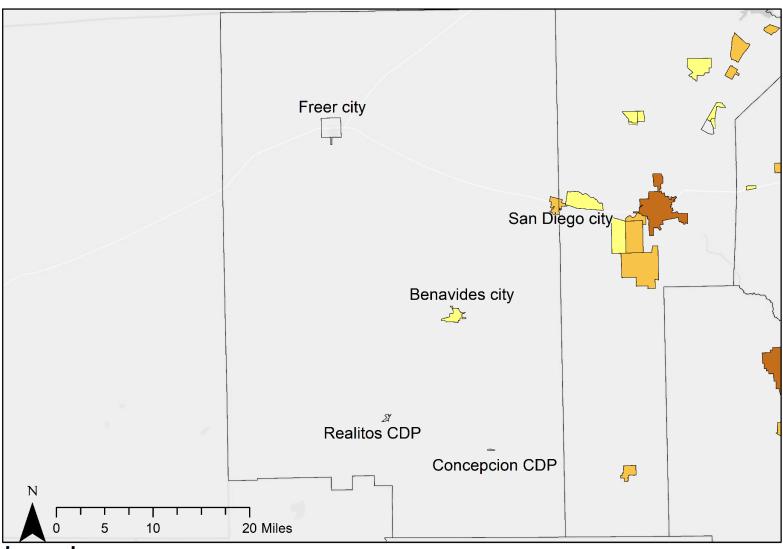
FEMA Individual Assistance

Declared disasters (2002-2019)



Place Name > 50 Applicants*	Declared Disasters	No of Applicants	Properties Destroyed
Alice city	7	1120	0
Rancho Alegre CDP	4	289	0
Premont city	4	248	0
Ben Bolt CDP	3	92	0
Alice Acres CDP	3	50	0

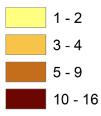
FEMA Declared Disasters: Duval County



Legend

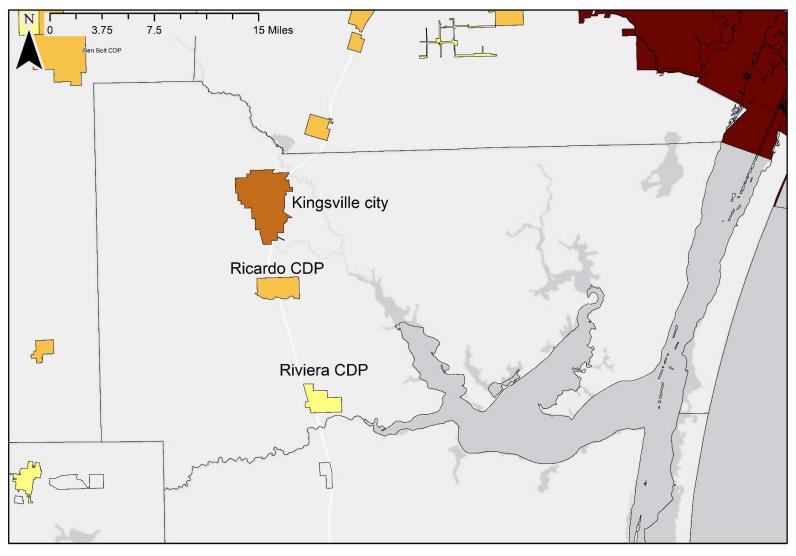
FEMA Individual Assistance

Declared disasters (2002-2019)



	Declared		No of	I	Properties
Place Name	Disasters		Applicants	5	Destroyed
Concepcion CDP	N/A		N/A		N/A
Realitos CDP	N/A		N/A		N/A
Benavides city		1		4	0
Freer city	N/A		N/A		N/A
San Diego city		4	4	8	0

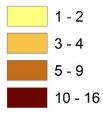
FEMA Declared Disasters: Kleberg County



Legend

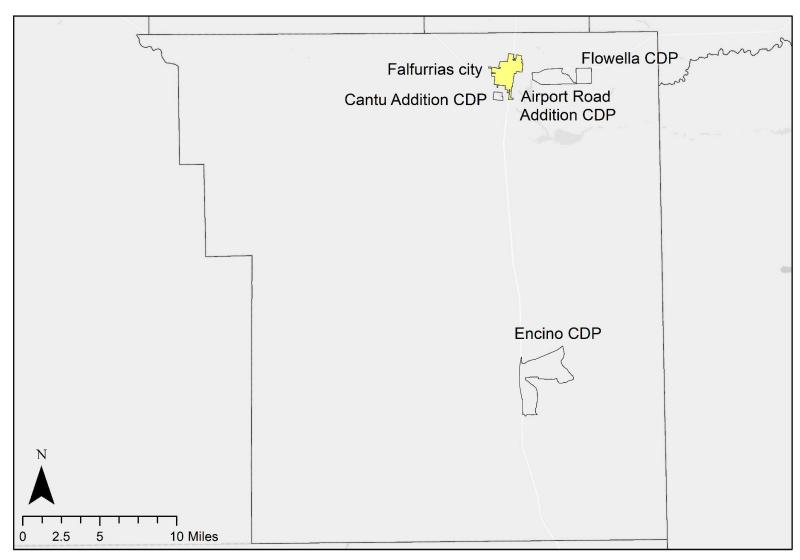
FEMA Individual Assistance

Declared disasters (2002-2019)



Place Name		No of Applicants	Properties Destroyed
Kingsville city	9	1761	0
Ricardo CDP	3	107	0
Riviera CDP	2	35	0

FEMA Declared Disasters: Brooks County



Legend

1 - 2

3 - 4

5 - 9

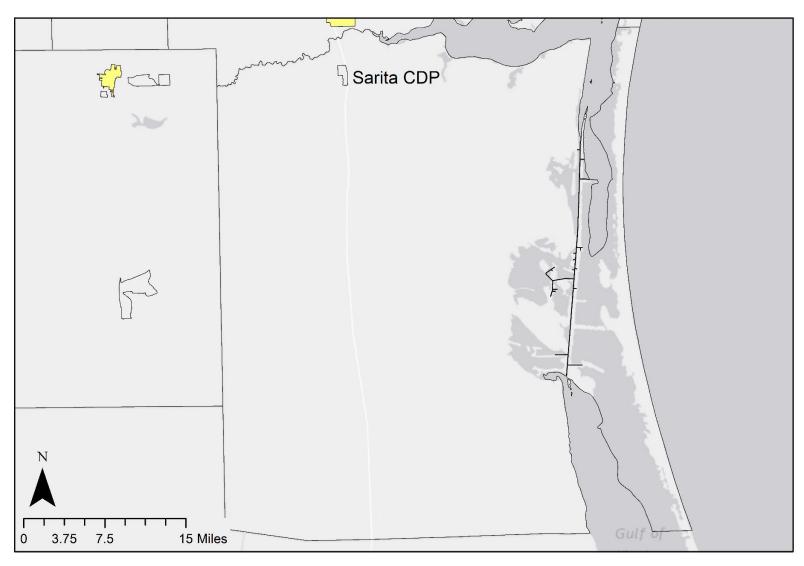
10 - 16

FEMA Individual Assistance

Declared disasters (2002-2019)
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Place Name	Declared Disasters	No of Applicants	Properties Destroyed
Encino CDP	N/A	N/A	N/A
Falfurrias city	1	4	0
Airport Road Addition CDP	N/A	N/A	N/A
Cantu Addition CDP	N/A	N/A	N/A
Flowella CDP	N/A	N/A	N/A

FEMA Declared Disasters: Kenedy County



Legend

FEMA Individual Assistance

FEMA Individual Assistance Program

Declared disasters (2002-2019)

1 - 2		Declared	No of	Properties
3 - 4	Place Name	Disasters	Applicants	Destroyed
5 - 9	Sarita CDP	N/A	N/A	N/A

10 - 16

Appendices

Floodplain Quilt Prioritization

- 1. National Flood Hazard Layer (NFHL) Pending Data: This data will have flood hazard information comprised of the most recent detailed and approximate studies (compared to the other datasets) and are pending release as a FEMA Effective Flood Insurance Rate Map (FIRM). This data is (in a very broad sense) considered the best available data of the compiled data sets.
- 2. National Flood Hazard Layer (NFHL) Preliminary Data: Map of flood risk during the 1% annual chance and 0.2% annual storm events. These FEMA issued maps are for public review and awareness of proposed change. This data includes both detailed and approximate study data.
- 3. National Flood Hazard Layer Effective Data (Detailed Study Areas only): This data has flood hazard information that includes detailed studies (Flood Zones AE, AO, AH, and VE) and is the current Effective FEMA FIRM. This layer includes any FEMA's if modification to an effective Flood Insurance Rate Map that was effective when TWDB downloaded the data. Up to date effective FEMA floodplain and any other Letter of Map Revision (LOMR) information can be viewed through FEMA's NFHL Viewer separately.
- 4. Estimated Base Flood Elevation Viewer: This data contains flood hazard information created by approximate base level engineering (BLE) data that can be used as best available information where approximate Zone A's on the effective FIRM exist, but they do not replace flood hazard data found in a detailed study area. Hence this data is ranked 3rd, in between detailed (rank 2) and approximate (rank 4) effective data.
 - In general, only the highest rank data was included in a given study area whether that data had wider or skinnier floodplains. However, BLE and detailed studied effective data is represented slightly differently. In study areas with both detailed NFHL and BLE data, areas that were designated in 1% or 0.2% annual storm events in the BLE data, but not designated as such in detailed studied area are designated as 1% or 0.2% annual storm events in the floodplain quilt. This incorporates streams that were captured in the BLE modeling, but not in the detailed study, and also incorporates wider BLE floodplains with skinnier detailed study floodplains, resulting in a more comprehensive and conservative floodplain.
- 5. National Flood Hazard Layer Effective Data (Approximate Study Areas only): This data has flood hazard information that includes approximate studies (Flood Zone A) on the effective FIRM map. Where approximate Zone A's exist on the effective FIRM there is no effective detailed study information.
- 6. First American Flood Data Services (FAFDS): This data contains digitized flood hazard information from previously published FIRMs and FISs and is not available on the NFHL. Even if certain areas in this data set include detailed study (such as AE zones), it is likely very old and thus it is anticipated that BLE data will be more accurate. This is one example where a conflict may occur between best available 'planning' data and best available 'regulatory' data.
- 7. Other Sources: Other sources are not yet available, so they are not yet ranked. Conceptually, how they could be ranked are described below.
 - 1. Cursory Floodplain (Fathom)
 - 2. USACE or other federal data
 - 3. Regional or Local flood risk data

Additional Data Tables: San Patricio County

			Percent							
	Population	Population	Change	Percent	So\/I	SoVI Class	Declared	No of	Properties	Porcont in
Place Name	-	(2020 ACS)	-	LMI	Class				-	Flood Zone
Country Acres	(1010 / 100)	(,		01000		2.00000000	, ppnounto		1000 20110
, CDP	238	278	16.8%	0.0%	High	5	2	93	ç	0.0%
Del Sol CDP	129	203	57.4%	9.7%	Low	1	. 1	49	C	3.8%
Edgewater										
Estates CDP	81	145	79.0%	88.2%	Low	1	. 1	6	C	34.2%
					Medium					
Edroy CDP	550	318	-42.2%	95.1%	Low	2	. 1	91	. C	11.4%
					Medium					
Falman CDP	24	. 8	-66.7%	40.0%	Low	2	. 1	31	. 3	67.0%
Gregory city	1977	2218	12.2%	44.3%	Medium	3	1	607	3	8 83.0%
Ingleside city	10165	9768	-3.9%	34.1%	Medium	3	6	3123	17	27.0%
Ingleside on the										
Bay city	802	762	-5.0%	21.2%	Low	1	. 2	231	. C	36.1%
La Paloma										
Addition CDP	338						2			
Lake City town	545	506	-7.2%	55.7%	High	5	1	33	C	54.7%
Lakeshore										
Gardens-Hidden Acres CDP	741	524	-29.3%	50.9%	High	5	4	83	c	62.0%
					Ū					
Lakeside town	289	314	8.7%	57.3%	Medium	3	1	35	C	35.6%
Loma Linda CDP	106	138	30.2%	0.0%	Medium	2	1	21	- -	0.0%
	100	150	50.2%	0.0%		2	. 1	21	. C	0.0%
Mathis city	4826	4759	-1.4%	67.1%	Medium	4	. 6	1290	c c) 1.3%
	4020	4735	-1.4/0	07.170	-	4	. 0	1290	, c	1.570
Morgan Farm CDP	327	400	22.3%	32.9%	Medium	л	. 3	124) 32.2%
						4				
Odem city	2649				Medium	3				
Paisano Park CDP	52	50	-3.8%	68.8%			1	15	C	0.0%
	47005	47007		20.20	Medium	-	-			10.400
Portland city	17025					2				
Rancho Chico CDF	° 725	355	-51.0%		Medium	3	2			99.3%
San Patricio city	394	364	-7.6%	20.0%	Medium	3	4	70	C	56.5%
Sinton city	5504	5389	-2.1%	42.8%	Medium	3	6	1078	C	56.3%
					Medium					
St. Paul CDP	966	1377	42.5%	41.8%	High	4	. 3	131	C) 14.9%
Taft city	2945	2924	-0.7%	49.9%	Medium	3	4	1044	. 1	. 22.0%
Taft Southwest										
CDP	982	1440	46.6%	56.2%	Medium	3	4	631	. 4	27.5%
Tradewinds CDP	105	106	1.0%	30.8%	Medium	3	1	71	. 1	. 0.7%
					Medium					
Aransas Pass city	8088	9269	14.6%	49.1%	High	4	. 7	4244	- 60	33.4%

Additional Data Tables: Jim Wells

			Percent Change							
	Population	•	(2019-	Percent			Declared		-	Percent in
Place Name	(2019 ACS)	(2020 ACS)	2020)	LMI	Class	Number	Disasters	Applicants	Destroyed	Flood Zone
			/		Medium					
Alice city	19007	18859	-0.8%	43.6%	U	4	7	1120	0	82.1%
Premont city	2580	2564	-0.6%	55.3%	Medium High	4	4	248	0	13.6%
,					0					
Orange Grove city	1418	1370	-3.4%	41.9%	Medium	3	3	44	0	0.0%
					Medium					
Rancho Alegre CDP	1223	769	-37.1%	52.8%	High	4	4	289	0	31.9%
					Medium					
Coyote Acres CDP	1089				Low	2			0	
Sandia CDP	900	837	-7.0%		Medium	3			0	0.0%
K-Bar Ranch CDP	536	362	-32.5%	6.4%	High	5	3	32	0	2.8%
South La Paloma CDP	530	389	-26.6%	80.0%	High	5	2	. 25	0	10.0%
Amargosa CDP	299				Medium	3				
Loma Linda East	255	502	1.070	0.070	Weulum	J	1	. 0	0	0.470
CDP	296	123	-58.4%	0.0%	Medium	3	1	. 5	0	20.9%
Alice Acres CDP	254	282	11.0%	64.7%	High	5	3	50	0	0.2%
Owl Ranch CDP	117	286	144.4%	92.0%	Medium	3	1	21	0	0.0%
Westdale CDP	95	93	-2.1%	22.0%	Low	1	1	. 12	0	1.7%
Alfred CDP	15	90	500.0%	100.0%	N/A	N/A	N/A	N/A	N/A	36.5%
Ben Bolt CDP	N/A	1542	N/A	N/A	N/A	N/A	3	92	0	12.1%

Additional Data Tables: Nueces County

			Percent Change			SoVI				
Place Name	•	Population (2020 ACS)	(2019-	Percent LMI	SoVI Class	Class Number	Declared Disasters	No of Applicants	•	Percent in Flood Zone
Corpus Christi										
city	325780	326332	0.2%	42.2%	Medium	3	16	55573	10	12.5%
					Medium					
Robstown city	11400	11214	-1.6%	57.7%	High	4	7	4454	0	71.3%
Port Aransas										
city	4123	4203	1.9%	39.4%	Medium	3	3	2753	88	76.1%
Bishop city	3093	3085	-0.3%	37.5%	Medium	3	4	313	0	35.5%
Agua Dulce city	871	611	-29.9%	44.6%	Medium	3	2	98	0	80.8%
North San					Medium					
Pedro CDP	645	441	-31.6%	64.4%	Low	2	4	402	0	100.0%
Driscoll city	631	712	12.8%	73.4%	High	5	4	146	1	96.6%
La Paloma-Lost										
Creek CDP	613	573	-6.5%	45.7%	Medium	3	4	86	2	27.1%
Spring Gardens										
CDP	565	536	-5.1%	41.6%	Medium	3	4	198	0	1.5%
Rancho									_	
Banquete CDP	484	408	-15.7%	15.0%	Low	1	4	153	0	23.0%
Tierra Verde						_			_	
CDP	441	252	-42.9%	37.3%	Medium	3	4	121	0	2.1%
	204	520	26 50/	70.00/	Medium		2	4 4 7	•	40.00/
Banquete CDP	381	520	36.5%	70.8%	High	4	2	147	0	48.8%
Tierra Grande	224	201	15 00/	26 40/	Low	1	4	07	0	4 70/
CDP Conduction	334	281	-15.9%	30.4%	Low	1	4	87	0	4.7%
Sandy Hollow-	206	600	120 40/	25.20/	Madium	2	2	25	0	80.6%
Escondidas CDP		682	130.4%		Medium		2	25	0	80.6%
Petronila city	103	89	-13.6%	32.4%	Medium	3	2	15	0	1.0%

HOW TO GET IN TOUCH WITH US

Maps will be posted to: <u>http://www.coastalbendcog.org/node/45</u>

Email: RRP@tamucc.edu