



## Harvey Mitigation Competition Application

### CDBG-MIT Public Notice

October 12, 2020

#### **Project: Sabine River Relief Ditch Extension and Expansion**

#### **Introduction:**

The Sabine River Authority (SRA), is giving notice of its intent to submit an application to the Texas General Land Office (GLO) for funds through the Community Development Block Grant – Mitigation (CDBG-MIT) program, as lead applicant, along with joint applicants Orange County Drainage District (OCDD), Orange County, Jasper County, and Newton County. The application is for funds to extend and expand the Sabine River Relief Ditch to mitigate against Hurricanes, severe coastal flooding, and riverine flooding in Orange, Jasper, and Newton Counties.

The CDBG-MIT program is funded through the United States Department of Housing and Urban Development (HUD) and administered at the state level by the Texas General Land Office (GLO). Applications are due to GLO by October 28, 2020 and awards are expected in 2021. The SRA will receive public comments for fourteen (14) days from the date of this posting until October 26, 2020. The public is encouraged to submit comments to Travis Williams, Assistant General Manager of Operations for the SRA, at Sabine River Authority, 12777 Highway 87 North, Orange, TX 77632 or via email to [CDBGinfo@sratx.org](mailto:CDBGinfo@sratx.org).

All comments must be received by 5:00pm on October 26, 2020. Comments will be incorporated into the draft application documents, as appropriate. The application will prioritize the mitigation of the devastating effects of natural disasters, as well as ensure the project is in line with environmental regulations, affirmatively furthering fair housing activities, and, if applicable, minimizing displacement of persons by project activities.

Upon the expiration of this comment period, the SRA will review and address the public comments in the proposed application. For more information, contact Travis Williams at 409-746-2192.

#### **Scope:**

The three counties benefitting from the proposed project, Orange, Jasper, and Newton, are considered some of the most disaster prone counties in the state and all rank in the top 10% of disaster impacted counties in Texas according to the Composite Disaster Index created for the GLO CDBG-MIT Action Plan. These jurisdictions are susceptible to a wide range of natural hazards, including floods, hurricanes and tropical storms, droughts, and hazardous materials



incidents. These hazards pose serious threats to community lifelines of safety and security, health and medical, transportation, hazardous material, and energy in the project service area.

Flooding, through various means, pose one of the most serious and persistent risks in the project area. The area is susceptible to riverine flooding as a result hurricanes and tropical storms that produce extreme rainfall events, such as Hurricane Harvey.

A relief ditch currently exists starting at the Sabine River and extending approximately 14 miles west and north in Orange County. The proposed project involves expanding and extending the existing diversion channel, located near the north Orange County line, approximately 1.5 miles in a westward direction so as to intercept storm water overflow from Cow Bayou, and the expansion and improvement of this existing Relief Ditch, thereby diverting a significant amount of storm water runoff flowing from Jasper and Newton Counties directly to the Sabine River, thereby creating improved drainage within all three counties.

The project also proposes to construct a new pump station with forebay reservoir at the discharge into the Sabine River to increase the effectiveness of the extension and expansion of the Sabine River Relief Ditch.

These improvements will greatly reduce flooding in Orange County, Newton County and Jasper County that repetitively occurs when the current Relief Ditch, due to excessive rainfall and/or the condition of the Sabine River, is overwhelmed and unable to provide effective drainage.

**National Objective:**

**Urgent Need – Mitigation.** This project meets the Urgent Need Mitigation National Objective as it will result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits. While the Low to Moderate Income (LMI) population throughout the entire benefitting area is lower than the required 51% and the project does not qualify under an LMI National Objective, there are still significant concentrations of LMI populations throughout the benefitting jurisdictions. The entire service area contains LMI census tracts with significant concentration of LMI populations. During times of disaster, these communities are more vulnerable to flooding, damage, and loss of life.

**Budget:**

The anticipated total cost of this project is **\$99,926,994 million**. Of this budget, **\$5 million** in Texas Water Development Board funds are being committed as leverage for hydraulic and hydrological study and modeling of the impacted watersheds and for preliminary engineering, project design, and, feasibility assessments for the Sabine River Relief Ditch Extension and Expansion Project. As a result, **\$95,926,994 million** in CDBG-MIT funds is being request from the GLO for implementation of the Sabine River Relief Ditch Extension and Expansion. A detailed budget is attached.



**Service Area:**

The proposed improvements would provide a benefit to almost the entirety of Orange County and to significant portions of Jasper and Newton counties beginning at the Orange County line, extending through the Cow and Adams Bayou watersheds. A map of the project service area and beneficiaries is attached.



## CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

<b>Applicant/Subrecipient:</b>		Sabine River Authority				
<b>Site/Activity Title:</b>		Relief Ditch Extension and Pump Station				
<b>Eligible Activity:</b>		Community Resilience & Long-term Vulnerability Reduction				
Materials/Facilities/Services	\$/Unit	Unit	Quantity	Construction	Acquisition	Total
Real Estate Acquisition	\$ 10,000.00	EA	240	\$ -	\$ 2,400,000.00	\$ 2,400,000.00
Environmental Mitigation	\$ 50,000.00	EA	26	\$ 1,300,000.00	\$ -	\$ 1,300,000.00
Clearing and Grubbing	\$ 2,500.00	EA	233	\$ 582,500.00	\$ -	\$ 582,500.00
Embankment Construction/Elevation	\$ 50.00	CY	250000	\$ 12,500,000.00	\$ -	\$ 12,500,000.00
Excavation	\$ 10.00	CY	2000000	\$ 20,000,000.00	\$ -	\$ 20,000,000.00
Pump Station Site Development	\$ 6,000,000.00	EA	1	\$ 6,000,000.00	\$ -	\$ 6,000,000.00
Construction Pump Station Bldg	\$ 8,000,000.00	EA	1	\$ 8,000,000.00	\$ -	\$ 8,000,000.00
Complete Pump Units	\$ 7,200,000.00	EA	4	\$ 28,800,000.00	\$ -	\$ 28,800,000.00
Road Crossing Upgrades	\$ 350,000.00	EA	4	\$ 1,400,000.00	\$ -	\$ 1,400,000.00
RR Crossing Upgrade	\$ 500,000.00	EA	1	\$ 500,000.00	\$ -	\$ 500,000.00
Inlet Control Structure Upgrade	\$ 50,000.00	EA	3	\$ 150,000.00	\$ -	\$ 150,000.00
Pump Discharge Erosion Control Structure	\$ 150.00	SY	2000	\$ 300,000.00	\$ -	\$ 300,000.00
Water Control Gates	\$ 15,000.00	EA	4	\$ 60,000.00	\$ -	\$ 60,000.00
	\$ -		0	\$ -	\$ -	\$ -
<b>ACQUISITION &amp; CONSTRUCTION TOTAL</b>	<b>\$ 22,177,710.00</b>			<b>\$ 79,592,500.00</b>	<b>\$ 2,400,000.00</b>	<b>\$ 81,992,500.00</b>

**1. Identify and explain the annual projected operation and maintenance costs associated with the proposed activities.**

Annual operation and maintenance activities involve routine mowing, inspection, and possible erosion repair of the earthen ditch and forebay at the pump station. During high rainfall events, the pump station will be manned and operated for the duration of the storm event. Additionally, annual preventative maintenance will be necessary to keep the pumps, drivers, and gear in good mechanical condition. Anticipated annual O&M costs for facilities constructed under this project are estimated to range from \$10,000 to \$50,000 per year depending on frequency and magnitude of storms each year. The Orange County Drainage District will operate and maintain these facilities as part of their normal business.

**2. Identify and explain any special engineering activities.**

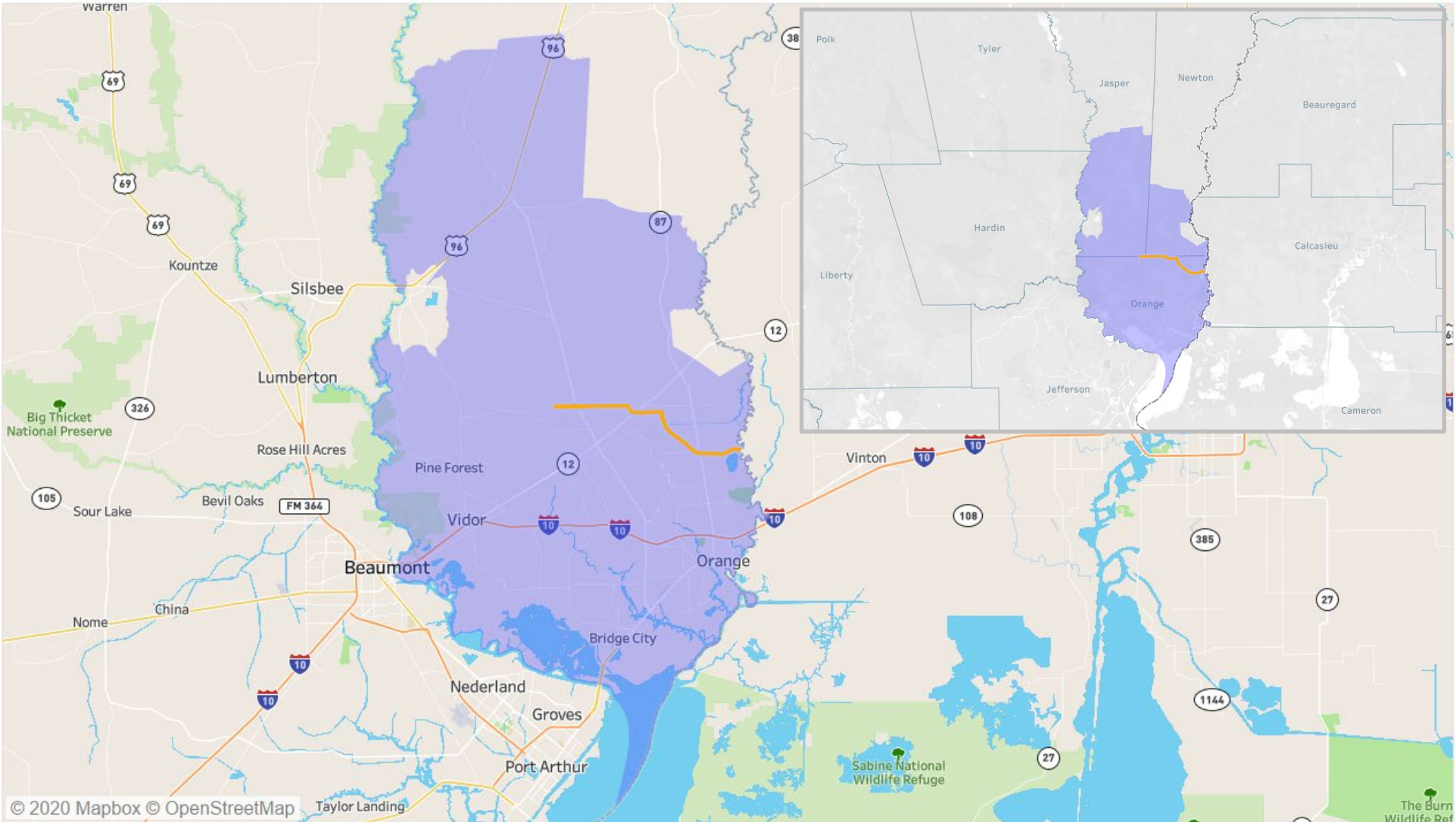
Engineering will include hydrologic and hydraulic analysis to determine appropriate size and configuration of pump station and all associated water control and features, geotechnical evaluation associated with design and construction of the pump station, road crossing improvements and embankments, detailed surveying, and construction inspection/engineering services to provide quality control and quality assurance on all aspects of construction.

Seal	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><b>Date:</b></td> <td style="text-align: center;">10/8/2020</td> </tr> <tr> <td><b>Phone Number:</b></td> <td style="text-align: center;">409.554.8994</td> </tr> </table> <p style="text-align: center;"><b>Signature of Registered Engineer/Architect Responsible For Budget Justification:</b></p>	<b>Date:</b>	10/8/2020	<b>Phone Number:</b>	409.554.8994
<b>Date:</b>	10/8/2020				
<b>Phone Number:</b>	409.554.8994				

Engineering	15% of Construction	\$ 11,938,875.00
Administrative Expenses	6% of Total Project	\$ 5,995,619.68
<b>TOTAL PROJECT BUDGET</b>		<b>\$ 99,926,994.68</b>

Note: Real Estate Acquisition, Environmental Mitigation, and Clearing/Grubbing are budgetted on a per acres unit price basis, but not unit option for acres was available.

EXHIBIT <b>1</b>	<b>CDBG-MIT</b>	<b>Sabine River Relief Ditch Extension and Expansion Project Area Map</b>
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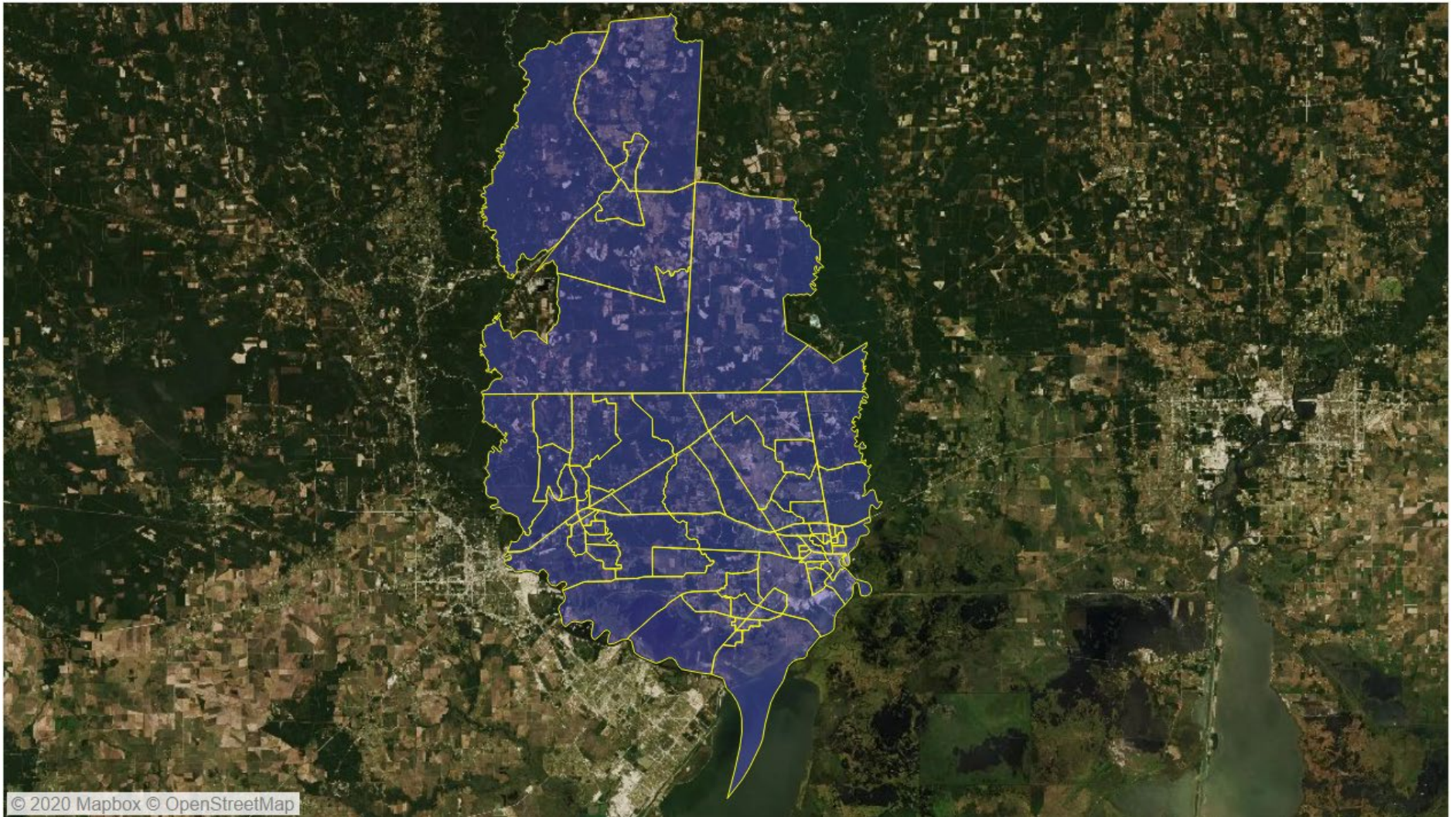


- Sabine River Relief Ditch with Extension and Expansion
- Project Beneficiary Area

EXHIBIT  
2

CDBG-MIT

## Sabine River Relief Ditch Extension and Expansion Beneficiary Map



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— U.S. Census Block Groups

■ Project Beneficiary Area

EXHIBIT 3	CDBG-MIT	Sabine River Relief Ditch Extension and Expansion U.S. Census Block Group LMI Data		
#	Geo Name	Low-Mod	Low-Mod Universe	Low-Mod %
1	Block Group 1, Census Tract 9507, Jasper County, Texas	570	2,340	24.36%
2	Block Group 2, Census Tract 9507, Jasper County, Texas	380	1,770	21.47%
3	Block Group 3, Census Tract 9507, Jasper County, Texas	405	1,715	23.62%
4	Block Group 4, Census Tract 9507, Jasper County, Texas	755	1,430	52.80%
5	Block Group 1, Census Tract 9508, Jasper County, Texas	1,045	1,375	76.00%
6	Block Group 2, Census Tract 9508, Jasper County, Texas	560	1,610	34.78%
7	Block Group 1, Census Tract 9504, Newton County, Texas	450	1,855	24.26%
8	Block Group 3, Census Tract 9504, Newton County, Texas	630	1,150	54.78%
9	Block Group 1, Census Tract 202, Orange County, Texas	235	505	46.53%
10	Block Group 1, Census Tract 203, Orange County, Texas	470	1,015	46.31%
11	Block Group 2, Census Tract 203, Orange County, Texas	210	455	46.15%
12	Block Group 3, Census Tract 203, Orange County, Texas	505	685	73.72%
13	Block Group 1, Census Tract 205, Orange County, Texas	135	875	15.43%
14	Block Group 2, Census Tract 205, Orange County, Texas	560	645	86.82%
15	Block Group 3, Census Tract 205, Orange County, Texas	485	1,005	48.26%
16	Block Group 4, Census Tract 205, Orange County, Texas	375	755	49.67%
17	Block Group 1, Census Tract 207, Orange County, Texas	620	1,355	45.76%
18	Block Group 2, Census Tract 207, Orange County, Texas	410	1,110	36.94%
19	Block Group 3, Census Tract 207, Orange County, Texas	415	780	53.21%
20	Block Group 4, Census Tract 207, Orange County, Texas	690	1,420	48.59%
21	Block Group 1, Census Tract 208, Orange County, Texas	360	1,105	32.58%
22	Block Group 2, Census Tract 208, Orange County, Texas	355	600	59.17%
23	Block Group 1, Census Tract 209, Orange County, Texas	245	645	37.98%
24	Block Group 2, Census Tract 209, Orange County, Texas	415	750	55.33%
25	Block Group 3, Census Tract 209, Orange County, Texas	715	1,085	65.90%
26	Block Group 4, Census Tract 209, Orange County, Texas	630	1,110	56.76%
27	Block Group 1, Census Tract 210, Orange County, Texas	410	2,180	18.81%
28	Block Group 1, Census Tract 211, Orange County, Texas	525	1,890	27.78%
29	Block Group 1, Census Tract 212, Orange County, Texas	540	1,160	46.55%
30	Block Group 2, Census Tract 212, Orange County, Texas	460	1,415	32.51%
31	Block Group 3, Census Tract 212, Orange County, Texas	545	2,095	26.01%
32	Block Group 1, Census Tract 213, Orange County, Texas	955	2,920	32.71%
33	Block Group 2, Census Tract 213, Orange County, Texas	270	620	43.55%
34	Block Group 3, Census Tract 213, Orange County, Texas	795	2,445	32.52%
35	Block Group 1, Census Tract 214, Orange County, Texas	585	2,000	29.25%
36	Block Group 2, Census Tract 214, Orange County, Texas	745	2,010	37.06%
37	Block Group 1, Census Tract 215.01, Orange County, Texas	525	2,245	23.39%
38	Block Group 1, Census Tract 215.02, Orange County, Texas	215	1,075	20.00%
39	Block Group 5, Census Tract 215.02, Orange County, Texas	480	1,595	30.09%
40	Block Group 1, Census Tract 218, Orange County, Texas	220	1,020	21.57%
41	Block Group 2, Census Tract 218, Orange County, Texas	630	1,620	38.89%
42	Block Group 6, Census Tract 219, Orange County, Texas	485	2,090	23.21%
43	Block Group 1, Census Tract 222, Orange County, Texas	135	480	28.13%

#	Geo Name	Low-Mod	Low-Mod Universe	Low-Mod %
44	Block Group 2, Census Tract 222, Orange County, Texas	860	3,505	24.54%
45	Block Group 1, Census Tract 223, Orange County, Texas	580	1,135	51.10%
46	Block Group 5, Census Tract 223, Orange County, Texas	525	2,420	21.69%
47	Block Group 1, Census Tract 224, Orange County, Texas	280	950	29.47%
48	Block Group 2, Census Tract 224, Orange County, Texas	325	1,210	26.86%
49	Block Group 3, Census Tract 224, Orange County, Texas	250	710	35.21%
50	Block Group 2, Census Tract 202, Orange County, Texas	305	620	49.19%
51	Block Group 3, Census Tract 202, Orange County, Texas	465	930	50.00%
52	Block Group 4, Census Tract 202, Orange County, Texas	1,055	1,550	68.06%
53	Block Group 2, Census Tract 215.02, Orange County, Texas	390	685	56.93%
54	Block Group 3, Census Tract 215.02, Orange County, Texas	175	1,025	17.07%
55	Block Group 4, Census Tract 215.02, Orange County, Texas	1,025	2,770	37.00%
56	Block Group 1, Census Tract 216, Orange County, Texas	180	765	23.53%
57	Block Group 2, Census Tract 216, Orange County, Texas	900	2,015	44.67%
58	Block Group 3, Census Tract 216, Orange County, Texas	330	1,065	30.99%
59	Block Group 1, Census Tract 217, Orange County, Texas	235	1,115	21.08%
60	Block Group 2, Census Tract 217, Orange County, Texas	695	1,200	57.92%
61	Block Group 1, Census Tract 219, Orange County, Texas	265	525	50.48%
62	Block Group 2, Census Tract 219, Orange County, Texas	590	865	68.21%
63	Block Group 3, Census Tract 219, Orange County, Texas	570	1,135	50.22%
64	Block Group 4, Census Tract 219, Orange County, Texas	210	645	32.56%
65	Block Group 5, Census Tract 219, Orange County, Texas	430	1,000	43.00%
66	Block Group 1, Census Tract 220, Orange County, Texas	400	530	75.47%
67	Block Group 2, Census Tract 220, Orange County, Texas	345	765	45.10%
68	Block Group 3, Census Tract 220, Orange County, Texas	1,475	2,780	53.06%
69	Block Group 2, Census Tract 223, Orange County, Texas	500	1,785	28.01%
70	Block Group 3, Census Tract 223, Orange County, Texas	375	545	68.81%
71	Block Group 4, Census Tract 223, Orange County, Texas	240	1,265	18.97%
72	Block Group 4, Census Tract 224, Orange County, Texas	65	765	8.50%
73	Block Group 5, Census Tract 224, Orange County, Texas	745	1,395	53.41%
<b>Total Population</b>		<b>35,930</b>	<b>95,675</b>	<b>37.55%</b>