

**TECHNICAL EXHIBIT  
APPLICATION FOR NON-COMMERCIAL BROADCAST STATION  
POPULATION COUNT EXHIBIT  
NEW FM CHANNEL 203 C1  
45 kW H&V  
181.5m HAAT  
Hamlin, TX**

Service counts were performed by using a computer program, V-Soft Probe 4. Counts were done with the 2010 US Census PL database. The cell size used in the study was .5 sq km.

Service Count Population Report - Service Count: 1050910 (203):  
FCC F(50-50) 60.00 dBu (FCC HAAT)

Reference Area: 1050910 (203): FCC F(50-50) 60.00 dBu (FCC HAAT)

Counting Grid Cell Size: 0.5 sq. km

Population Database: 2010 US Census (PL)

Services Included in Count:

1050910 (203): FCC F(50-50) 60.00 dBu (FCC HAAT)  
KGNZ (201): FCC F(50-50) 60.00 dBu (FCC HAAT)  
KACU (208): FCC F(50-50) 60.00 dBu (FCC HAAT)  
KAGT (213): FCC F(50-50) 60.00 dBu (FCC HAAT)  
KAQD (217): FCC F(50-50) 60.00 dBu (FCC HAAT)  
KQOS (219): FCC F(50-50) 60.00 dBu (FCC HAAT)

Count Area	Population	Housing Units	Area (sq. km)
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1 Service	12,575	6,884	5225.73
2 Service	467	442	1078.91
3 Service	3,613	1,926	765.28
4 Service	3,246	1,560	851.49
5 or more	22,688	7,785	1411.12
Reference Area	42,589	18,597	9332.53

	Service Pop	Running Total	Percent
1 Service	12,575	12,575	29.5 %
2 Service	467	13,042	30.6 %
3 Service	3,613	16,655	39.1 %
4 Service	3,246	19,901	46.7 %
5 or more	22,688	42,589	100.0 %

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Housing Units    Population

Texas

Fisher County		
Total	2,212	3,974
1 Service	1,709	3,168
2 Service	71	106
3 Service	12	18
4 Service	11	17
5 or more	0	0
Reference Area	1,803	3,309
Haskell County		
Total	3,443	5,899
1 Service	3,174	5,696
2 Service	210	120
3 Service	33	50
Reference Area	3,417	5,866
Jones County		
Total	7,422	20,202
1 Service	1,096	2,236
2 Service	148	238
3 Service	1,855	3,523
4 Service	1,517	3,178
5 or more	2,792	10,997
Reference Area	7,408	20,172
King County		
Total	186	286
1 Service	5	0
Reference Area	5	0
Knox County		
Total	2,044	3,719
1 Service	9	13
Reference Area	9	13
Nolan County		
Total	7,152	15,216
2 Service	0	0
3 Service	1	1
4 Service	6	11
5 or more	8	18
Reference Area	15	30
Shackelford County		
Total	1,754	3,378
2 Service	0	0
3 Service	25	21
4 Service	26	40
5 or more	9	21
Reference Area	60	82
Stonewall County		
Total	928	1,490
1 Service	890	1,462
Reference Area	890	1,462
Taylor County		
Total	55,750	131,506
5 or more	4,976	11,652
Reference Area	4,976	11,652

Throckmorton County		
Total	1,079	1,641
1 Service	1	0
2 Service	13	3
Reference Area	14	3

#### Study Information:

##### Coverage Study

Signal Resolution: 1.0 km

Study Date: 11/8/2021

FM Data Date: 11/5/2021

Land Cover was not considered in this study.

Primary Terrain: FCC 30 Second US Database

Secondary Terrain: NED 3 Second US Terrain

Coordinate System: NAD83/WGS84

Call Sign	Area Of Calculation
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1050910 Hamlin (203)	Circle: R = 5 km
KGNZ (201)	Circle: R = 5 km
KACU (208)	Circle: R = 5 km
KAGT (213)	Circle: R = 5 km
KAQD (217)	Circle: R = 5 km
KQOS (219)	Circle: R = 5 km

#### Transmitters:

##### Transmitter Information:

Call Letters: 1050910 Hamlin

Latitude: 32-56-16 N

Longitude: 099-57-21 W

ERP: 45.00 kW

Channel: 203

Frequency: 88.5 MHz

AMSL Height: 680.0 m

Elevation: 515.1 m

HAAT: 181.5 m

Horiz. Antenna Pattern: Directional

Vert. Elevation Pattern: No

Propagation Model: None

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Transmitter Information:

Call Letters: KGNZ  
File Number: BLED20050627ACK  
Latitude: 32-13-47.50 N  
Longitude: 099-37-43.30 W  
ERP: 91.00 kW  
Channel: 201  
Frequency: 88.1 MHz  
AMSL Height: 859.0 m  
Elevation: 664.0 m  
HAAT: 252.0 m  
Horiz. Antenna Pattern: Omni  
Vert. Elevation Pattern: No  
Propagation Model: None

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Transmitter Information:

Call Letters: KACU  
File Number: BLED20150415AAT  
Latitude: 32-13-47.50 N  
Longitude: 099-37-43.30 W  
ERP: 100.00 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 795.0 m  
Elevation: 665.0 m  
HAAT: 189.0 m  
Horiz. Antenna Pattern: Directional  
Vert. Elevation Pattern: No  
Propagation Model: None

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Transmitter Information:

Call Letters: KAGT  
File Number: BLED20050927AHV  
Latitude: 32-30-37.40 N  
Longitude: 099-44-29.30 W  
ERP: 100.00 kW

Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 616.0 m  
Elevation: 515.0 m  
HAAT: 96.0 m  
Horiz. Antenna Pattern: Directional  
Vert. Elevation Pattern: No  
Propagation Model: None

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Transmitter Information:

Call Letters: KAQD  
File Number: BLED20091204ACX  
Latitude: 32-29-58.40 N  
Longitude: 099-58-20.30 W  
ERP: 2.80 kW  
Channel: 217  
Frequency: 91.3 MHz  
AMSL Height: 655.0 m  
Elevation: 566.0 m  
HAAT: 99.0 m  
Horiz. Antenna Pattern: Omni  
Vert. Elevation Pattern: No  
Propagation Model: None

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Transmitter Information:

Call Letters: KQOS  
File Number: BMLED20180710AAU  
Latitude: 32-39-32 N  
Longitude: 099-27-12 W  
ERP: 18.50 kW  
Channel: 219  
Frequency: 91.7 MHz  
AMSL Height: 718.5 m  
Elevation: 592.0 m  
HAAT: 0.0 m  
Horiz. Antenna Pattern: Directional  
Vert. Elevation Pattern: No  
Propagation Model: None

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**1050910 Hamlin**

Latitude: 32-56-16 N  
Longitude: 099-57-21 W  
ERP: 45.00 kW  
Channel: 203  
Frequency: 88.5 MHz  
AMSL Height: 680.0 m  
Elevation: 515.1 m  
Horiz. Pattern: Directional  
Vert. Pattern: No

Service Count: 1050910 (203): FCC F(50-50) 60.00 dBu (FCC HAAT)

- 1
- 2
- 3
- 4
- 5 or more

**Hamlin 60 dBu 50-50 FCC Contour**