

**16.1.34. San Jacinto County**

San Jacinto County									
Adjacent Regions' Original CAPRAD Assignments				Region 51					
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assigned	Freq Spread (kHz)
1		Navarro, Gregg	Calcasieu, Bossier, Rapides	19	769.11875	Fort Bend	San Jacinto		
2	Bastrop, Limestone	Victoria	DeSoto, Allen	83	769.51875		Brazoria	San Jacinto	400
3	Robson, Bast, Limestone	Victoria	Caddo, Vermilion	203	770.26875		Brazoria	San Jacinto	750
4	Freestone	Goliad	Marion	471	771.94375		Brazoria	San Jacinto	1675
5	Milam	Vict, Guad	DeSoto, Allen	499	772.11875		Brazoria	San Jacinto	175
6	Robertson		Panola	527	772.29375		Brazoria	San Jacinto	175
7		Dewitt	Gregg	747	773.66875	Harris County 7		San Jacinto	1375

**16.1.35. Shelby County**

Shelby County									
Adjacent Regions' Original CAPRAD Assignments				Region 51					
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assigned	Freq Spread (kHz)
1		Smith		87	769.54375	Harris County 5	Shelby		
2			Webster	165	770.03125	Harris County 3	Shelby		487.5
3	Burleson	Dewitt	Smith	175	770.09375	Harris County 7	Shelby		62.5
4	Fayette		Rapides	213	770.33125	Harris County 6	Shelby		237.5
5	Caldwell		Calcasieu	249	770.55625	Harris County 3	Shelby		225
6	Fayette		Beauregard, Grant	335	771.09375	Galveston	Shelby	Walker	537.5
7		Victoria	Navarro	361	771.25625	Harris County 4	Shelby	Houston	162.5
8	Robertson	Gonzales	Smith	365	771.28125	Harris County 6	Shelby		25
9		Upshur		383	771.39375	Waller	Shelby		112.5
10	Robson, Bast	Victoria		445	771.78125	Harris County 2	Shelby		387.5
11	Fayette		Calcasieu	537	772.35625	Harris County 2	Shelby		575
12	Grimes, Limestone	Jackson		581	772.63125	Jefferson	Shelby		275
13	Travis		Henderson	797	773.98125	Harris County 6	Shelby		1350
14	Travis		Smith	867	774.41875	Montgomery	Shelby		437.5
15	Travis	Victoria	Smith	907	774.66875	Montgomery	Shelby		250
16	Limestone, Travis	Victoria	Smith	947	774.91875	Montgomery	Shelby		250

**16.1.36. Trinity County**

Trinity County									
Adjacent Regions' Original CAPRAD Assignments				Region 51					
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assigned	Freq Spread (kHz)
1		Henderson	Sabine	205	770.28125	Harris County 3		Trinity	
2	Fayette		Beauregard, Grant	333	771.08125	Harris County 3	Trinity		800
3	Travis	Lavaca	Upshur	509	772.18125	Harris County 1	Trinity		1100
4	Bastrop		Harrison	561	772.50625	Harris County 2	Sabine	Trinity	325
5	Burl, Cald	Victoria Calh, Guad	Smith	627	772.91875	Harris County 7	Trinity		412.5
6		Henderson	Bossier, Grant	917	774.73125	Harris County 6	Sabine	Trinity	1812.5

**16.1.37. Tyler County**

Tyler County									
Adjacent Regions' Original CAPRAD Assignments				Region 51					
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assigned	Freq Spread (kHz)
1	Brazos		Cherokee	15	769.09375		Brazoria	Tyler	
2		Vict, Guad	Harrison	41	769.25625	Harris County 3		Tyler	162.5
3	Bastrop, Limestone	Victoria	DeSoto, Allen	81	769.50625	Harris County 3		Tyler	250
4			Navarro	289	770.80625	Harris County 2		Tyler	1300
5			Upshur	381	771.38125	Harris County 3		Tyler	575
6	Caldwell	Refugio	Harrison	517	772.23125	Harris County 3		Tyler	850
7	Madison		Panola	613	772.83125	Harris County 3		Tyler	600
8		Lavaca	Gregg	873	774.45625	Harris County 4		Tyler	1625

16.1.38. Orange County

Orange County									
Adjacent Regions' Original CAPRAD Assignments				Region 51					
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assgnd	Freq Spread (kHz)
1		Smith	Natchitoches	45	769.28125	Harris County 4		Orange	
2		Smith		85	769.53125	Harris County 4	San Augustine	Orange	250
3	Brazos	Victoria	DeSoto	131	769.81875	Harris County 5		Orange	287.5
4	Travis		Jeff Davis, Bossier	179	770.11875	Montgomery		Orange	300
5	Travis	Calhoun	Henderson	257	770.60625	Harris County 6		Orange	487.5
6	Leon, Bast	Victoria	Panola	321	771.00625	Harris County 6		Orange	400
7		Victoria	Navarro	363	771.26875	Harris County 5	Nacogdoches	Orange	262.5
8	Leon, Caldwell	Refugio	Upshur	437	771.73125	Harris County 6		Orange	462.5
9	Travis	Lavaca	Upshur	511	772.19375	Montgomery	Matagorda	Orange	462.5
10	Brazos		Anderson	565	772.53125	Harris County 3		Orange	337.5
11	Brazos		Gregg	605	772.78125	Harris County 1		Orange	250
12	Washington		Gregg	707	773.41875	Galveston		Orange	637.5
13	Limestone	Guadalupe	Harrison	781	773.88125	Harris County 1	Angelina	Orange	462.5
14			Marion	831	774.19375	Montgomery		Orange	312.5
15		Calhoun, Guadalupe	Henderson	919	774.74375	Montgomery		Orange	550

16.1.39. Walker County

Walker County										
Adjacent Regions' CAPRAD Assignments				Region 51						
Region 49 Central Texas	Region 53 South Texas	Region 40 North Texas	Region 18 Louisiana	Chan	Center Freq	1st Reuse	Other Assigned	Other Assign ed	Freq Spread (kHz)	
1	Travis	Calhoun	Upshur	Sabine	55	769.34375	Fort Bend		Walker	
2			Smith	Webster	127	769.79375			Walker	450
3	Fayette			Rapides	215	770.34375		Nacogdoches	Walker	550
4	Fayette		Rusk	Vernon	295	770.84375			Walker	500
5	Fayette			Beauregard, Grant	335	771.09375	Galveston	Shelby	Walker	250
6		Jackson		Webster, Allen	355	771.21875			Walker	125
7		Victoria		Cameron, Natchitoches	403	771.51875	Galveston	Nacogdoches	Walker	300
8		Calhoun, Gonzales	Henderson	Beauregard, Red River	491	772.06875	Fort Bend		Walker	550
9	Fayette			Calcasieu	539	772.36875			Walker	300
10	Bastrop			Beauregard	603	772.76875			Walker	400
11	Lee		Smith	Jeff Davis, DeSoto	719	773.49375			Walker	725
12	Fayette		Gregg	Calcasieu	791	773.94375	Galveston		Walker	450
13	Bastrop		Harrison, Navarro	Natchitoches	823	774.14375	Fort Bend		Walker	200
14		Gonzales		Caddo	903	774.64375	Fort Bend		Walker	500
15				Caddo	943	774.89375	Fort Bend		Walker	250

## 16.2. FCC Rules Sec. 90.531 Band Plan.

This is the band plan for the 763-775 MHz and 793-805 MHz public safety bands.

### 16.2.1. (a) Base and Mobile Use.

The 763-775 MHz band may be used for base, mobile or fixed (repeater) transmissions. The 793-805 MHz band may be used only for mobile or fixed (control) transmissions.

### 16.2.2. (b) Narrowband Segments.

There are two band segments that are designated for use with narrowband emissions. Each of these narrowband segments is divided into 960 channels having a channel size of 6.25 kHz as follows:

Frequency Range	Channel Numbers
769-775 MHz	1-960
799-805 MHz	961-1920

- (1) Narrowband interoperability channels. The following narrowband channels are designated for nationwide interoperability licensing and use: 23, 24, 39, 40, 63, 64, 79, 80, 103, 104, 119, 120, 143, 144, 159, 160, 183, 184, 199, 200, 223, 224, 239, 240, 263, 264, 279, 280, 303, 304, 319, 320, 641, 642, 657, 658, 681, 682, 697, 698, 721, 722, 737, 738, 761, 762, 777, 778, 801, 802, 817, 818, 841, 842, 857, 858, 881, 882, 897, 898, 921, 922, 937, 938, 983, 984, 999, 1000, 1023, 1024, 1039, 1040, 1063, 1064, 1079, 1080, 1103, 1104, 1119, 1120, 1143, 1144, 1159, 1160, 1183, 1184, 1199, 1200, 1223, 1224, 1239, 1240, 1263, 1264, 1279, 1280, 1601, 1602, 1617, 1618, 1641, 1642, 1657, 1658, 1681, 1682, 1697, 1698, 1721, 1722, 1737, 1738, 1761, 1762, 1777, 1778, 1801, 1802, 1817, 1818, 1841, 1842, 1857, 1858, 1881, 1882, 1897, 1898.

16.2.2..1. (i) Narrowband data Interoperability channels. The following channel pairs are reserved nationwide for the express purpose of data transmission only: 279/1239, 280/1240, 921/1881, and 922/1882.

16.2.2..2. (ii) Narrowband calling Interoperability channels. The following channel pairs are dedicated nationwide for the express purpose of Interoperability calling only: 39/999, 40/1000,

681/1641, and 682/1642. They may not be used primarily for routine, day-to-day communications. Encryption is prohibited on the designated calling channels.

16.2.2.3. (iii) Narrowband trunking Interoperability channels. The following Interoperability channel pairs may be combined with the appropriate adjacent secondary trunking channel pairs and used in trunked mode on a secondary basis to conventional Interoperability operations: 23/983, 24/984, 103/1063, 104/1064, 183/1143, 184/1144, 263/1223, 264/1224, 657/1617, 658/1618, 737/1697, 738/1698, 817/1777, 818/1778, 897/1857, 898/1858. For every ten general use channels trunked at a station, entities may obtain a license to operate in the trunked mode on two of the above contiguous Interoperability channel pairs. The maximum number of Interoperability channel pairs that can be trunked at any one location is eight.

- (2) Narrowband reserve channels. The following narrowband channels are undesignated and reserved: 37, 38, 61, 62, 77, 78, 117, 118, 141, 142, 157, 158, 197, 198, 221, 222, 237, 238, 277, 278, 301, 302, 317, 318, 643, 644, 683, 684, 699, 700, 723, 724, 763, 764, 779, 780, 803, 804, 843, 844, 859, 860, 883, 884, 923, 924, 939, 940, 997, 998, 1021, 1022, 1037, 1038, 1077, 1078, 1101, 1102, 1117, 1118, 1157, 1158, 1181, 1182, 1197, 1198, 1237, 1238, 1261, 1262, 1277, 1278, 1603, 1604, 1643, 1644, 1659, 1660, 1683, 1684, 1723, 1724, 1739, 1740, 1763, 1764, 1803, 1804, 1819, 1820, 1843, 1844, 1883, 1884, 1899, 1900.
- (3) Narrowband low power channels subject to regional planning. The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables subject to Commission-approved regional planning committee regional plans. Transmitter power must not exceed 2 watts (ERP): Channels 1-8 paired with Channels 961-968, and Channels 949-958 paired with Channels 1909-1918.
- (4) Narrowband low power itinerant channels. The following narrowband channels are designated for low power use for on-scene incident response purposes using mobiles and portables. These channels are licensed nationwide for itinerant operation. Transmitter power must not exceed 2 watts (ERP): Channels 9-12 paired with Channels 969-972 and Channels 959-960 paired with Channels 1919-1920.
- (5) Narrowband state channels. The following narrowband channels are designated for direct licensing to each state (including U.S. territories, districts, and possessions): 25-36, 65-76, 105-116, 145-156, 185-196, 225-236, 265-276, 305-316, 645-656, 685-696, 725-736, 765-776, 805-

816, 845-856, 885-896, 925-936, 985-996, 1025-1036, 1065-1076, 1105-1116, 1145-1156, 1185-1196, 1225-1236, 1265-1276, 1605-1616, 1645-1656, 1685-1696, 1725-1736, 1765-1776, 1805-1816, 1845-1856, 1885-1896. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535(d).

- (6) Narrowband general use channels. All narrowband channels established in paragraph (b) of this section, other than those listed in paragraphs (b)(1), (b)(2), (b)(4) and (b)(5) of this section are designated to public safety eligible's subject to Commission approved regional planning committee regional plans. Voice operations on these channels are subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535(d).

- (7) Secondary trunking channels. The following channel pairs are reserved for secondary trunking operations: 21/981, 22/982, 101/1061, 102/1062, 181/1141, 182/1142, 261/1221, 262/1222, 659/1619, 660/1620, 739/1699, 740/1700, 819/1779, 820/1780, 899/1859, and 900/1860. They may be used only in combination with the appropriate adjacent Interoperability channel pairs specified in paragraph (b) (1) (iii) of this section in trunked systems.

16.2.3. (c) [Reserved]

16.2.4. (d) Combining Channels.

Except as noted in this section, at the discretion of the appropriate regional planning committee, contiguous channels may be used in combination in order to accommodate requirements for larger bandwidth emissions, in accordance with this paragraph. Interoperability channels may not be combined with channels in another group except for channels for secondary trunking channels.

- (1) Narrowband. Subject to compliance with the spectrum usage efficiency requirements set forth in Sec. 90.535, two or four contiguous narrowband (6.25 KHz) channels may be used in combination as 12.5 KHz or 25 KHz channels, respectively. The lower (in frequency) channel for two channel combinations must be an odd (i.e., 1, 3, 5 \* \* \*) numbered channel. The lowest (in frequency) channel for four channel combinations must be a channel whose number is equal to  $1+(4xn)$ , where  $n =$  any integer between 0 and 479, inclusive (e.g., channel number 1, 5, \* \* \* 1917). Channel combinations are designated by the lowest and highest channel numbers separated by a hyphen, e.g., ``1-2" for a two channel combination and ``1-4" for a four channel combination.

- (2) [Reserved]

16.2.5. (e) Channel Pairing.

In general, channels must be planned and assigned in base/mobile pairs that are separated by 30 MHz. However, until December 31, 2006, channels other than those listed in paragraphs (b)(1) and (c)(1), may be planned and assigned in base/mobile pairs having a different separation, where necessary because 30 MHz base/mobile pairing is precluded by the presence of one or more co-channel or adjacent channel TV/DTV broadcast stations.

- 16.2.6. (f) Internal guard band. The internal guard band (768-769/798-799 MHz) is reserved.
- 16.2.7. (g) Broadband. The 763-768 MHz and 793-798 MHz bands are allocated for broadband communications pursuant to the Public Safety Broadband License.