

Hospital Characteristics

The Hospital Nurse Staffing Survey (HNSS) assesses the size and effects of the nursing shortage in hospitals, Texas' largest employer of nurses. During the spring of 2012, the TCNWS administered the HNSS to 603 Texas hospitals. These included for-profit, non-profit, public, and Texas Department of State Health Services-operated hospitals, as well as hospitals linked to academic institutions; military hospitals were not surveyed. The facilities surveyed were general acute care, psychiatric, special, and rehabilitation hospitals. 373 (61.9%) hospitals responded to the survey. The hospitals that completed the 2012 HNSS were representative of all Texas hospitals by region and bed size.

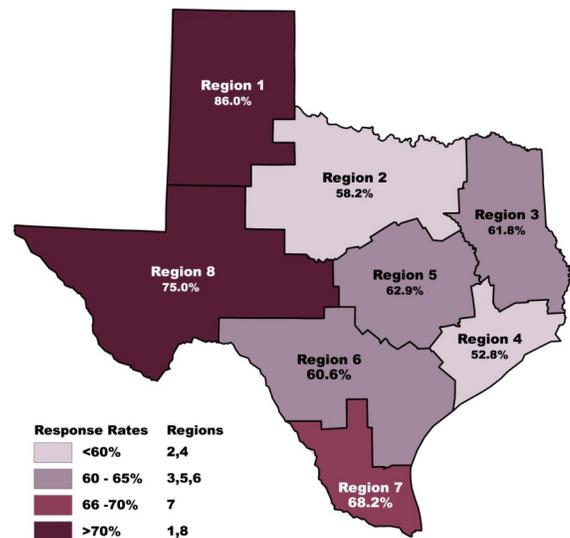
This report provides survey response rates by region and bed size. It also includes relevant hospital characteristics such as the number and distribution of Magnet, Pathway to Excellence, and trauma center designated hospitals in the 2012 HNSS sample.

Geographic Location of Hospitals By Region and County Designation

2012 HNSS Response Rate: 61.9 %

- This year 373 hospitals responded to the survey compared with 355 in 2010.
- The overall response rate for 2012 was 61.9% which was an increase over the 2010 response rate of 60.0%.
- Regions 1 and 8 had the highest response rate with at least three-fourths of hospitals in those regions responding to the survey (See Figure 1 and Table 1).

Figure 1. Response Rate by Region



Map source: GIS, Texas Center for Health Statistics, 2013

Table 1. 2012 HNSS Response Rate by Region

Region	# of Respondents in Region	Total # of Hospitals in Region	Response Rate
1	37	43	86.0%
2	107	184	58.2%
3	34	55	61.8%
4	65	123	52.8%
5	39	62	62.9%
6	40	65	60.6%
7	15	22	68.2%
8	36	48	75.0%
Total	373	603	61.9%

Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
Panhandle	North Texas	East Texas	Gulf Coast	Central Texas	South Texas	Rio Grande Valley	West Texas

Table 2. Number of Responding Hospitals Over Total Number of Hospitals By Region and Bed Size*

Region	Bed Size					Total
	< 50	50-99	100-299	300-499	> 499	
1	26/31	7/8	-	3/3	1/1	37/43
2	44/83	22/46	30/38	6/9	5/8	107/184
3	13/29	5/9	11/12	5/5	-	34/55
4	24/41	15/31	17/35	5/10	4/6	65/123
5	19/31	8/16	10/11	2/3	0/1	39/62
6	22/32	9/15	5/12	3/3	1/4	40/66
7	3/5	3/5	6/7	2/3	1/2	15/22
8	20/28	5/8	7/8	3/3	1/1	36/48
Total	171/280	74/138	86/123	29/39	13/23	373/603

Table 2 displays information on the proportion of hospitals responding to our survey by region and bed size*.

- In Regions 1, 7, and 8 response rates were 50% or higher in each bed size category.
- The Region 2 response rate for hospitals with 100-299 beds was 78.9%.
- Region 3 was the only region with a response rate below 50% among hospitals with fewer than 50 beds. In Region 4, the hospitals that had the greatest response rate were those with less than 50 beds.

* - Because beds in state hospitals are not technically licensed, calculations use state hospitals' bed capacities.

Hospital Designations

Figure 2. Percentage of Responding Hospitals by Geographic Designation

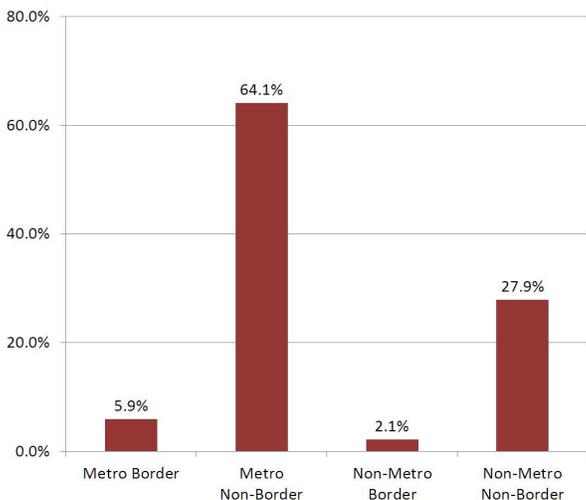


Figure 2 shows the number of responding hospitals by geographic designation.

- 70.0% of responding hospitals were located in counties designated as metropolitan.
- 8.0% of responding hospitals were in counties designated as border counties.

Table 3. Number and Percentage of Responding Hospitals in each Region by Hospital Designation Type

	Region							
	1	2	3	4	5	6	7	8
Magnet	0	13	1	5	4	1	0	0
	0.0%	12.1%	2.9%	7.7%	10.3%	2.5%	0.0%	0.0%
Pathway to Excellence	2	17	1	11	7	1	1	3
	5.4%	15.9%	2.9%	16.9%	17.9%	2.5%	6.7%	8.3%
Designated as Trauma Center	23	53	26	23	28	26	11	28
	62.1%	49.5%	76.5%	35.4%	71.8%	65.0%	73.3%	77.8%

Table 3 shows the percentages of responding hospitals in each class of hospital designation by region.

- 75.0% of responding Magnet hospitals were located in Regions 2 and 4.
- 81.4% of responding Pathway to Excellence Hospitals were located in Regions 2, 4, and 5.
- The greatest percentage of responding hospitals being designated trauma centers was Region 8, while Region 4 had the lowest percentage.

Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
Panhandle	North Texas	East Texas	Gulf Coast	Central Texas	South Texas	Rio Grande Valley	West Texas

Table 4 provides the percentages of responding hospitals in each class of hospital designation by geographic designation.

Magnet Hospitals by Geographic Designation

- All 24 responding Magnet hospitals were located in metropolitan non-border counties.
- There were 30 total Magnet hospitals in Texas.¹

Pathway to Excellence Hospitals By Geographic Designation

- 88.4% of responding Pathway to Excellence Hospitals were located in metropolitan non-border counties.
- The remaining hospitals were located in either metropolitan border counties or non-metropolitan non-border counties.
- There were 55 total Pathway to Excellence Hospitals in Texas.²

Hospitals Designated as Trauma Centers by Geographic Designation

- There were 218 responding Trauma Centers reported.
- Nearly half (47.2%) were located in metropolitan non-border counties.
- 42.2% were located in non-metropolitan non-border counties.
- There were 265 total hospitals designated as Trauma Centers in Texas.³

Table 4. Number and Percentage of Responding Hospitals by Designation and Geographic Designation

	Geographic Designation			
	Metro Border	Metro Non-Border	Non-Metro Border	Non-Metro Non-Border
Magnet	0	24	0	0
	0.0%	10.0%	0.0%	0.0%
Pathway to Excellence	3	38	0	2
	13.6%	15.9%	0.0%	1.9%
Designated as a Trauma Center	15	103	8	92
	68.2%	43.1%	100.0%	88.5%

Source: ¹ <http://www.nursecredentialing.org/Magnet/FindaMagnetFacility.aspx>
² <http://www.nursecredentialing.org/Pathway/DesignationOrganizations.aspx>
³ <http://www.dshs.state.tx.us/emstraumasystems/etrahosps.shtml>

Level of Trauma Center

A trauma facility is a hospital that is designated by the Texas Department of State Health Services to provide emergency and specialized intensive care to critically ill and injured patients. They range from Level 1, which is a comprehensive trauma facility that manages major and severe trauma patients to Level 4, a basic trauma facility that transfers major and severe trauma patients to a higher-level trauma facility.⁴

There are a total of 265 trauma centers (TCs) in Texas.

- Of 16 Level 1 TCs, 62.5% responded.
- Of 12 Level 2 TCs, 83.3% responded.
- Of 49 Level 3 TCs, 79.6% responded.
- Of 188 Level 4 TCs, 84.6% responded.

Level of Trauma Facility by Region

Table 5 shows the percentage of responding hospitals in each region that were designated to be certain Trauma Center levels.

- The majority of responding Level 1 Centers were in Regions 2, 4, and 5.
- Regions 4, 7, and 8 contained no Level 2 Centers.
- Region 4 reported the most Level 3 Centers.
- Region 2 contained the most Level 4 Centers.
- Only Region 7 (located in the southern border area of Texas) did not have a Level 1 or Level 2 Trauma Center. The closest region where trauma care could be provided is Region 6.

Table 5. Number and Percentage of Hospitals by Level of Trauma Center and Region

Trauma Center Level	Region								Total
	1	2	3	4	5	6	7	8	
1	1	2	1	2	2	1	0	1	10
	2.7%	1.9%	2.9%	3.1%	5.1%	2.5%	0.0%	2.8%	2.7%
2	1	3	3	0	2	1	0	0	10
	2.7%	2.9%	8.8%	0.0%	5.1%	2.5%	0.0%	0.0%	2.7%
3	1	7	6	8	3	2	7	5	39
	2.7%	6.5%	16.2%	12.3%	7.7%	5.0%	46.7%	13.9%	10.5%
4	20	41	16	13	21	22	4	22	159
	54.1%	38.3%	47.1%	20.0%	53.8%	55.0%	26.7%	61.1%	42.6%
Non-Trauma Centers	14	54	8	42	11	14	4	8	155
	37.8%	50.5%	21.6%	64.6%	28.2%	35.0%	26.7%	22.2%	41.6%

Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8
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Level of Trauma Facility by Geographic Designation

Table 6 provides the number of responding hospitals designated at each level of trauma center by geographic designation.

- All 10 responding Level 1 Trauma Centers were in metropolitan counties and 9 of these were located in metropolitan non-border counties.
- Each of the 10 responding Level 2 Trauma Centers was located in a metropolitan non-border county.
- There were 27 responding Level 3 Trauma Centers in the metropolitan non-border counties. The remaining 12 were divided between metropolitan border and non-metropolitan non-border counties.
- Metropolitan non-border counties contained the most responding Level 1, Level 2, and Level 3 Trauma Centers.
- Non-metropolitan non-border counties contained the most responding Level 4 Trauma Centers.

Table 6. Level of Responding Trauma Centers by Geographic Designation

Trauma Center Level	Metro Border	Metro Non-Border	Non-Metro Border	Non-Metro Non-Border
1	1	9	0	0
	4.5%	3.8%	0.0%	0.0%
2	0	10	0	0
	0.0%	4.2%	0.0%	0.0%
3	8	27	0	4
	36.4%	11.3%	0.0%	3.8%
4	6	57	8	88
	27.3%	23.8%	100%	84.6%

Source: ⁴ <http://www.dshs.state.tx.us/emstraumasystems/etrahosp.shtm>