Amended Trauma Service Area Assessment

Florida Department of Health

Bureau of Emergency Medical Oversight

Health Information and Policy Analysis Program

Date: March 24, 2014
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**Data Sources**

The hospital discharge dataset is collected by the Agency for Health Care Administration (AHCA). It is a comprehensive set of all hospitalizations in the state. Records used for this report are for 2012.

The Florida Emergency Medical Services Tracking and Reporting System (EMSTARS) collects incident-level information on millions of EMS incidents every year, for benchmarking and quality improvement initiatives. EMSTARS currently contains over nine million records. The EMSTARS data used for this report is for 2009-2012.

The Florida Trauma Registry collects patient-level data from the state’s verified and provisional trauma centers, as authorized by section 395.404(1), Florida Statutes. Verified and provisional trauma centers must maintain a comprehensive database of those injured patients treated within the hospital. The records used for this report are 2010-2012, the three most recent years available.

The data regarding severely injured patients was derived from the AHCA hospital discharge database for 2012.

US Census Data was used to determine TSA demographics. Population is based on 2012 estimates.

**Glossary of Terms**

1) **Acute Care Hospital** – An acute care hospital is defined by the Agency for Health Care Administration as a facility type that is equal to a hospital with acute care bed capacity. Acute care hospitals include trauma centers.

2) **Statutory Trauma Center Patient Volume** – Defined by section 395.402(1), Florida Statutes. Florida counties with a population of more than 500,000 are Duval, Brevard, Miami-Dade, Hillsborough, Lee, Orange, Palm Beach, Pinellas, and Polk.

3) **Annual Trauma Patient Volume** – Trauma patient volume is derived from the state trauma registry for records submitted by provisional and verified trauma centers for 2012. No inclusion criteria were applied to the self-reported volumes.

4) **ICISS**: International Classification Injury Severity Score, ICISS is derived using the Agency for Health Care Administration discharge database.
   - Probability of Survival (SRR=Survival Risk Ratio): ratio of the number of patients with that injury code who have survived to the total number of patients diagnosed with that code
   - Age is included as a predictor variable with the SRR

5) **Severely Injured Patient** – A patient with injuries as defined in the National Trauma Data Standard Patient Inclusion criteria with an ICISS score of < .85, excluding a length of stay of less than 24 hours or isolated hip fractures.
6) **Severely Injured Patients Discharged from Acute Care Hospitals** – The number of severely injured patients that were discharged from an acute care hospital (excluding trauma centers) as reflected by the AHCA database of 2012.

7) **Annual Percent of Patients Discharged from Acute Care Hospitals** – The total number of severely injured patients discharged from acute care hospitals (excluding trauma centers) divided by total number of severely injured patients.

8) **Rotor Wing Aircraft** – Rotor Wing Aircraft includes all rotary winged aircraft permitted by the Department. The total number of aircraft per TSA is derived from the Customer Oriented Medical Practitioner Administration System (COMPAS). Aircraft such as jets or airplanes are considered fixed wing aircraft and are not included in this measure. This is a static look at the COMPAS database for a specific time period and does not differentiate between active and inactive aircraft. Aircraft represented in this assessment may service multiple TSAs.

9) **Permitted EMS Ground Vehicles** – A vehicle that is permitted by the department to perform Basic Life Support or Advanced Life Support and transport patients to a receiving facility. The total number of permitted EMS ground vehicles per TSA is derived from a static look from the COMPAS database and does not differentiate between active and inactive vehicles. EMS ground vehicles represented in this assessment may service multiple TSAs.

10) **EMS Ground Vehicle to Population Ratio** – The total number of permitted ground vehicles, regardless of transport or non-transport status, to a population of 10,000 residents. \( \frac{\text{Total number EMS Ground Vehicles}}{\text{Population}} \times 10,000 \)

11) **EMS Ground Vehicle to 100 Square Miles Ratio** – The total number of permitted ground vehicles, regardless of transport or non-transport status, to 100 square miles. \( \frac{\text{Total number EMS ground Vehicles}}{\text{Total Land Area}} \times 100 \)

12) **Median Transport Time** – The median EMS transport time is derived from the Emergency Medical Services Tracking and Reporting System (EMSTARS). All patients transported to a hospital licensed as a verified trauma center are included regardless of illness or injury. EMS transport time is the difference between the time the unit left the scene and the time the EMS unit arrived at the hospital. Transport time includes all EMSTARS records submitted from 2009 to 2012 with a Type of Service Requested equal to 911 scene or intercept. Records that had a median transport time of greater than two hours were excluded.
Review of the Assignment of the 67 Counties to Trauma Service Areas

Since 1990, Florida's 67 counties have been assigned to 19 trauma service areas (TSAs) pursuant to section 395.402, Florida Statutes. As required by legislative amendments to the trauma statutes in 2004, the assignment of counties to TSAs is to be reviewed annually. The first such review occurred on February 1, 2005, when the Department released *A Comprehensive Assessment of the Florida Trauma System* which was conducted by the University of South Florida. The 2005 assessment considered transforming Florida's TSAs so that the boundaries of the TSAs would be identical to the boundaries of the Regional Domestic Security Task Forces (RDSTFs), thus realigning counties and reducing the number of TSAs to seven. While the assessment determined it may be possible to transform the TSAs into areas that coincide with the RDSTFs, it noted that regional trauma agencies would need to be developed in each of the larger geographical areas in order to make the transformation feasible.

As part of this assessment, the Department again evaluated the possibility of altering the current county assignments to establish TSAs that are identical to the RDSTFs. At this time, Florida has just one regional trauma agency and three local trauma agencies. None of the regional or local trauma agencies have boundaries that are identical to the RDSTFs. Neither the one regional trauma system plan in existence nor the state trauma system plan recommend realignment of counties into the RDSTFs for allocation purposes. While the RDSTFs present opportunities for planning and performance improvement, the RDSTFs are too large of a geographic area to ensure the even distribution of trauma centers throughout Florida. Without the existence of regional trauma agencies in each of the trauma regions, the allocation of trauma centers throughout the state should continue to be guided by the more geographically compact TSAs.

Also as part of this assessment, the Department evaluated the current county assignments to TSAs. The existing TSAs have been used to guide trauma center development in Florida since 1990 and are familiar to all stakeholders of the trauma system. On review, the Department has determined that none of the current county assignments require realignment at this time. The most appropriate alignment of counties is described in section 395.402(4)(a), Florida Statutes.
Trauma Center Funding

As noted by the American College of Surgeons in its Trauma System Consultation Report, "Florida is fortunate to have several funding sources to support the trauma program." The Florida Legislature provides funding for existing trauma centers through portions of the revenue from the vehicle registration taxes and red light camera fines. The funding provided to existing trauma centers has increased significantly in the past two years as a result of the installation of red light cameras throughout Florida. For example, funds distributed to trauma centers in calendar year 2011 totaled $5,163,848.64, and in 2012, that number more than doubled with distributions to trauma centers totaling $12,683,771.76.

The current funding methodology is prescribed by section 395.4036, Florida Statutes, and uses trauma patient volumes to disburse funds. As part of its Trauma System Consultation Report, the American College of Surgeons' system consultation team recommended changes to Florida’s current funding methodology.

As the needs of the Trauma Program and trauma system change, the Trauma Program should consider revising the statutes and rules governing the trauma fund to ensure that designated trauma centers receive level-appropriate support for the “cost of readiness.” In addition, distribution of funds should focus on the deliverables established by the Trauma Program rather than volume and acuity exclusively.

The Department concurs with the assessment of the system consultation team.
Trauma Service Areas

Trauma Service Area 1

TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 2
- # of Acute Care Hospitals: 11
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 2,544
- # of Severely Injured Patients: 447
- Annual # of Severely Injured Patients Discharged from Acute Care Hospitals: 93
- Annual % of Severely Injured Patients Discharged from Acute Care Hospitals: 20.8%

TSA Demographics

- Population: 708,892
- Population Density: 194.97
- 10 Year Population Growth Rate: 13.7%
- Median Age: 37.9
- % Persons 65 & Over: 13.2%
- % Persons Under 18: 20.02%
- Total Land Area: 3,635 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Ground Vehicles: 87
- EMS Ground Vehicle to Population Ratio: 1.23:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 2.4:100
- Median Transport Time: 00:14:00 hh:mm:ss
Trauma Service Area 2

**TSA Trauma System Information**

- # of Rotor Wing Aircraft: 0
- # of Permitted EMS Transport Vehicles: 35
- EMS Ground Vehicle to Population Ratio: 1.51:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 1.47:100
- Median Transport Time: 00:39:00

**TSA Demographics**

- Population: 232,317
- Population Density: 97.45
- 10 Year Population Growth Rate: 15.5%
- Median Age: 39.8
- % Persons 65 & Over: 11.3%
- % Persons Under 18: 15.99%
- Total Land Area: 2,384 sq Miles

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**Population**

- Population: 232,317
- Population Density: 97.45
- 10 Year Population Growth Rate: 15.5%
- Median Age: 39.8
- % Persons 65 & Over: 11.3%
- % Persons Under 18: 15.99%
- Total Land Area: 2,384 sq Miles
Trauma Service Area 3

TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 9
- Statutory Patient Volume: 500
- Annual Trauma Patient Volume Reported by Trauma Centers: 1,292
- # of Severely Injured Patients: 289
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 32
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 11.1%

TSA Demographics

- Population: 500,675
- Population Density: 71.71
- 10 Year Population Growth Rate: 14.8%
- Median Age: 30.2
- % Persons 65 & Over: 5.9%
- % Persons Under 18: 10.51%
- Total Land Area: 6,982 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 3
- # of Permitted EMS Transport Vehicles: 95
- EMS Ground Vehicle to Population Ratio: 1.90:10,000
- Median Transport Time: 00:33:00

Type

- Level I
- Level II
- Level II and Pediatric
- Pediatric
- Level I Provisional
- Level II Provisional
- Acute Care Centers

Aeromedical Resources
Trauma Service Area 4

**TSA Trauma System Information**

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 0
- # of Acute Care Hospitals: 10
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 2,745
- # of Severely Injured Patients: 537
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 63
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 11.7%

**TSA Demographics**

- Population: 575,041
- Population Density: 83.87
- 10 Year Population Growth Rate: 14.5%
- Median Age: 38.1
- % Persons 65 & Over: 9.4%
- % Persons Under 18: 13.16%
- Total Land Area: 6,856 sq Miles

**TSA Emergency Medical Services**

- # of Rotor Wing Aircraft: 4
- # of Permitted EMS Transport Vehicles: 96
- EMS Ground Vehicle to Population Ratio: 1.68:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 1.40:100
- Median Transport Time: 00:51:00
Trauma Service Area 5

TSA Trauma System Information

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 0
- # of Acute Care Hospitals: 13
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 3,433
- # of Severely Injured Patients: 776
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 358
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 46.1%

TSA Demographics

- Population: 1,377,850
- Population Density: 430.43
- 10 Year Population Growth Rate: 22.7%
- Median Age: 40.4
- % Persons 65 & Over: 12.8%
- % Persons Under 18: 22.67%
- Total Land Area: 3,201 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 4
- # of Permitted EMS Transport Vehicles: 252
- EMS Ground Vehicle to Population Ratio: 1.84:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 7.87:100
- Median Transport Time: 00:09:00 hh:mm:ss
Trauma Service Area 6

TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 0
- # of Acute Care Hospitals: 8
- Statutory Patient Volume: 0
- Annual Trauma Patient Volume Reported by Trauma Centers: 80
- # of Severely Injured Patients: 216
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 216
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 100%

TSA Demographics

- Population: 647,907
- Population Density: 245.53
- 10 Year Population Growth Rate: 27.6%
- Median Age: 48
- % Persons 65 & Over: 28.2%
- % Persons Under 18: 18.36%
- Total Land Area: 2,639 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Transport Vehicles: 78
- EMS Ground Vehicle to Population Ratio: 1.19:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 2.96:100
- Median Transport Time: 00:22:00
### TSA Trauma System Information

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<tr>
<td># Verified Level I Trauma Centers</td>
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<td># Verified Level II Trauma Centers</td>
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<tr>
<td># of Acute Care Hospitals</td>
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<td>Statutory Patient Volume</td>
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<td>Annual Trauma Patient Volume Reported by Trauma Centers</td>
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<tr>
<td># of Severely Injured Patients</td>
<td>369</td>
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<tr>
<td>Annual # of Severely Injured Patients Discharged From Acute Care Hospitals</td>
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<tr>
<td>Annual % of Severely Injured Patients Discharged From Acute Care Hospitals</td>
<td>26.8%</td>
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### TSA Demographics

- **Population**: 595,309
- **Population Density**: 375.24
- **10 Year Population Growth Rate**: 20.7%
- **Median Age**: 47.85
- **% Persons 65 & Over**: 22.8%
- **% Persons Under 18**: 18.45%
- **Total Land Area**: 1,586 sq Miles
TSA Trauma System Information

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 0
- # of Acute Care Hospitals: 21
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 4,223
- # of Severely Injured Patients: 1,093
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 430
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 39.3%

TSA Demographics

- Population: 2,325,294
- Population Density: 577.65
- 10 Year Population Growth Rate: 37.0%
- Median Age: 43.9
- % Persons 65 & Over: 14.6%
- % Persons Under 18: 22.17%
- Total Land Area: 4,025 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 4
- # of Permitted EMS Transport Vehicles: 315
- EMS Ground Vehicle to Population Ratio: 1.36:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 7.83:100
- Median Transport Time: 00:13:00
Trauma Service Area 9

**TSA Trauma System Information**

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 2
- # of Acute Care Hospitals: 19
- Statutory Patient Volume: 1,500
- Annual Trauma Patient Volume Reported by Trauma Centers: 3,977
- # of Severely Injured Patients: 937
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 608
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 64.9%

**TSA Demographics**

- Population: 1,391,710
- Population Density: 1,363.50
- 10 Year Population Growth Rate: 9.9%
- Median Age: 43.9
- % Persons 65 & Over: 21.9%
- % Persons Under 18: 18.45%
- Total Land Area: 1,021 sq Miles

**TSA Emergency Medical Services**

- # of Rotor Wing Aircraft: 0
- # of Permitted EMS Transport Vehicles: 129
- EMS Ground Vehicle to Population Ratio: 0.92:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 12.64:100
- Median Transport Time: 00:12:08
Trauma Service Area 10

**TSA Trauma System Information**

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Transport Vehicles: 193
- EMS Ground Vehicle to Population Ratio: 1.51:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 18.92:100
- Median Transport Time: 00:13:00

**TSA Trauma System Information**

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 12
- Statutory Patient Volume: 2,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 4,788
- # of Severely Injured Patients: 949
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 160
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 16.9%

**TSA Demographics**

- Population: 1,277,746
- Population Density: 1,252.43
- 10 Year Population Growth Rate: 27.9%
- Median Age: 36.4
- % Persons 65 & Over: 12.4%
- % Persons Under 18: 23.33%
- Total Land Area: 1,020 sq Miles
TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 10
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 1,413
- # of Severely Injured Patients: 409
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 103
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 25.2%

TSA Demographics

- Population: 741,800
- Population Density: 214.87
- 10 Year Population Growth Rate: 24.0%
- Median Age: 46.3
- % Persons 65 & Over: 20.0%
- % Persons Under 18: 21.51%
- Total Land Area: 3,452 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Transport Vehicles: 83
- EMS Ground Vehicle to Population Ratio: 1.12:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 2.40:100
- Median Transport Time: 00:21:00

# Trauma Service Area Information

## TSA Trauma System Information

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<thead>
<tr>
<th>Category</th>
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<tbody>
<tr>
<td># Verified Level I Trauma Centers</td>
<td>0</td>
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<tr>
<td># Verified Level II Trauma Centers</td>
<td>1</td>
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<tr>
<td># of Acute Care Hospitals</td>
<td>9</td>
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<tr>
<td>Statutory Patient Volume</td>
<td>1,000</td>
</tr>
<tr>
<td>Annual Trauma Patient Volume Reported by Trauma Centers</td>
<td>1,657</td>
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<tr>
<td># of Severely Injured Patients</td>
<td>359</td>
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<tr>
<td>Annual # of Severely Injured Patients Discharged From Acute Care Hospitals</td>
<td>137</td>
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<tr>
<td>Annual % of Severely Injured Patients Discharged From Acute Care Hospitals</td>
<td>38.2%</td>
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## TSA Demographics

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<tr>
<td>Population</td>
<td>687,874</td>
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<tr>
<td>Population Density</td>
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<tr>
<td>10 Year Population Growth Rate</td>
<td>16.8%</td>
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<td>Median Age</td>
<td>48.2</td>
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<tr>
<td>% Persons 65 &amp; Over</td>
<td>23.0%</td>
</tr>
<tr>
<td>% Persons Under 18</td>
<td>18.90%</td>
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<tr>
<td>Total Land Area</td>
<td>1,519 sq Miles</td>
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## TSA Emergency Medical Services

<table>
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<tbody>
<tr>
<td># of Rotor Wing Aircraft</td>
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<td># of Permitted EMS Transport Vehicles</td>
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<td>EMS Ground Vehicle to Population Ratio</td>
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<td>EMS Ground Vehicle to 100 Square Miles Ratio</td>
<td>4.41:100</td>
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<td>Median Transport Time</td>
<td>00:11:00</td>
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TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 8
- Statutory Patient Volume: 500
- Annual Trauma Patient Volume Reported by Trauma Centers: 890
- # of Severely Injured Patients: 458
- Annual # of Severely Injured Patients: 458
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 100%

TSA Demographics

- Population: 754,754
- Population Density: 389.88
- 10 Year Population Growth Rate: 21.3%
- Median Age: 49.9
- % Persons 65 & Over: 27.4%
- % Persons Under 18: 16.74%
- Total Land Area: 1,936 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 1
- # of Permitted EMS Transport Vehicles: 77
- EMS Ground Vehicle to Population Ratio: 1.02:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 3.98:100
- Median Transport Time: 00:16:00
Trauma Service Area 14

**TSA Emergency Medical Services**

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Transport Vehicles: 79

**TSA Trauma System Information**

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 6
- Statutory Patient Volume: 500
- Annual Trauma Patient Volume Reported by Trauma Centers: 1,174
- # of Severely Injured Patients: 272
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 87
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 32.0%

**TSA Demographics**

- Population: 472,150
- Population Density: 250.57
- 10 Year Population Growth Rate: 32.9%
- Median Age: 46.7
- % Persons 65 & Over: 21.9%
- % Persons Under 18: 18.33%
- Total Land Area: 1,884 sq Miles

- EMS Ground Vehicle to Population Ratio: 1.67:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 4.19:100
- Median Transport Time: 00:09:00
Trauma Service Area 15

TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 9
- Statutory Patient Volume: 1,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 2,080
- # of Severely Injured Patients: 644
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 190
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 29.5%

TSA Demographics

- Population: 858,296
- Population Density: 250.70
- 10 Year Population Growth Rate: 36.4%
- Median Age: 56.8
- % Persons 65 & Over: 25.6%
- % Persons Under 18: 16.93%
- Total Land Area: 3,424 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 3
- # of Permitted EMS Transport Vehicles: 118
- EMS Ground Vehicle to Population Ratio: 1.36:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 3.45:100
- Median Transport Time: 00:23:00 hh:mm:ss
**TSA Trauma System Information**

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 14
- Statutory Patient Volume: 2,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 3,117
- # of Severely Injured Patients: 786
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 238
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 30.3%

**TSA Demographics**

- Population: 1,356,545
- Population Density: 688.69
- 10 Year Population Growth Rate: 19.9%
- Median Age: 43.6
- % Persons 65 & Over: 22.1%
- % Persons Under 18: 20.10%
- Total Land Area: 1,970 sq Miles

**TSA Emergency Medical Services**

- # of Rotor Wing Aircraft: 2
- # of Permitted EMS Transport Vehicles: 204
- EMS Ground Vehicle to Population Ratio: 1.51:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 10.36:100
- Median Transport Time: 00:08:00 hh:mm:ss
Trauma Service Area 17

TSA Trauma System Information

- # Verified Level I Trauma Centers: 0
- # Verified Level II Trauma Centers: 0
- # of Acute Care Hospitals: 4
- Statutory Patient Volume: 0
- Annual Trauma Patient Volume Reported by Trauma Centers: 0
- # of Severely Injured Patients: 154
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 154
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 100%

TSA Demographics

- Population: 332,427
- Population Density: 166.35
- 10 Year Population Growth Rate: 32.2%
- Median Age: 48
- % Persons 65 & Over: 28.1%
- % Persons Under 18: 19.02%
- Total Land Area: 1,998 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 1
- # of Permitted EMS Transport Vehicles: 33
- EMS Ground Vehicle to Population Ratio: 0.98:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 1.65:100
- Median Transport Time: 00:15:51
Trauma Service Area 18

BROWARD

TSA Trauma System Information

- # Verified Level I Trauma Centers: 2
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 16
- Statutory Patient Volume: 3,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 5,294
- # of Severely Injured Patients: 913
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 273
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 29.9%

TSA Demographics

- Population: 1,815,137
- Population Density: 1,500.37
- 10 Year Population Growth Rate: 11.8%
- Median Age: 40.0
- % Persons 65 & Over: 14.6%
- % Persons Under 18: 21.61%
- Total Land Area: 1,210 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 4
- # of Permitted EMS Transport Vehicles: 277
- EMS Ground Vehicle to Population Ratio: 1.55:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 22.90:100
- Median Transport Time: 00:10:00
Trauma Service Area 19

TSA Trauma System Information

- # Verified Level I Trauma Centers: 1
- # Verified Level II Trauma Centers: 1
- # of Acute Care Hospitals: 29
- Statutory Patient Volume: 2,000
- Annual Trauma Patient Volume Reported by Trauma Centers: 6,745
- # of Severely Injured Patients: 1,579
- Annual # of Severely Injured Patients Discharged From Acute Care Hospitals: 837
- Annual % of Severely Injured Patients Discharged From Acute Care Hospitals: 53.0%

TSA Demographics

- Population: 2,665,844
- Population Density: 925.32
- 10 Year Population Growth Rate: 14.3%
- Median Age: 42.7
- % Persons 65 & Over: 14.6%
- % Persons Under 18: 20.88%
- Total Land Area: 2,881 sq Miles

TSA Emergency Medical Services

- # of Rotor Wing Aircraft: 7
- # of Permitted EMS Transport Vehicles: 463
- EMS Ground Vehicle to Population Ratio: 1.75:10,000
- EMS Ground Vehicle to 100 Square Miles Ratio: 16.07:100
- Median Transport Time: 00:13:01
Conclusion

Based upon available data and the reliability of the data, the Department has determined that the following criteria should be used to evaluate the number and level of trauma centers needed to serve the population in a defined trauma service area:

1. Population
2. Median Transport Times
3. Community Support
4. Severely Injured Patients Discharged From Acute Care Hospitals
5. The Existence of A Level I Trauma Center
6. Number of Severely Injured Patients