

TEXAS TRAUMA SYSTEM



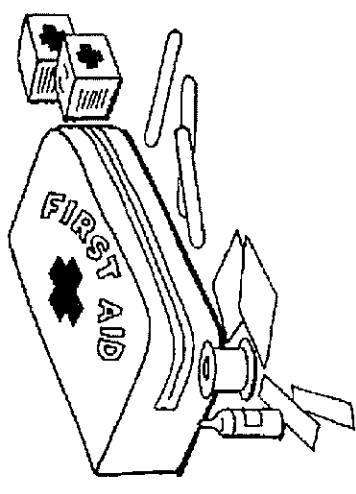
TEXAS TRAUMA SYSTEM

Kathryn C. Perkins, Chief
Bureau of Emergency Management
Texas Department of Health

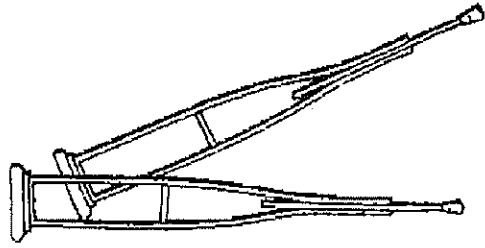
TEXAS TRAUMA SYSTEM

AGENDA

- Definitions
- History and Current Status
 - Trauma System Development
 - State Funding
 - EMS & Trauma Care System Fund
 - EMS and Trauma Care Endowment
- The Future
- Q&A

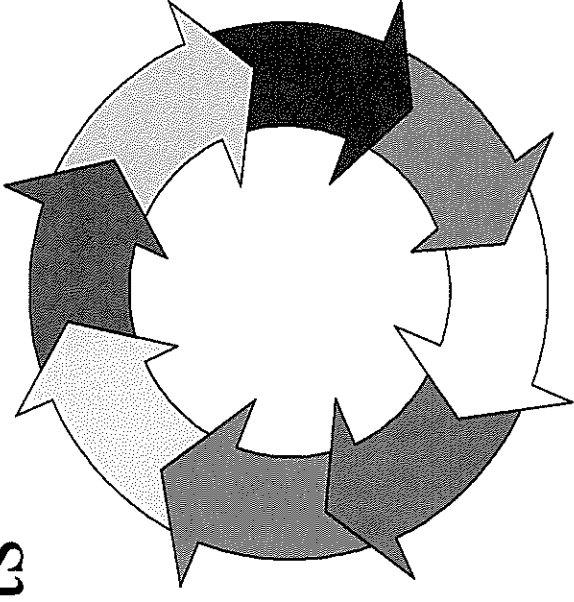


TRAUMA = INJURY



TRAUMA SYSTEM

Components



- Prevention
 - Public Information & Education
 - Access to the System
 - Bystander Care
 - Communications
- Bypass & Diversion Criteria
 - Prehospital Healthcare
 - Triage, Treatment, & Transport Protocols
 - Transportation
 - Transfer Guidelines
- Community Hospitals/Trauma Facilities
 - Tertiary Trauma Facilities
 - Specialty Trauma Facilities
 - Rehabilitation
 - Quality Improvement

TEXAS INJURY PROBLEM

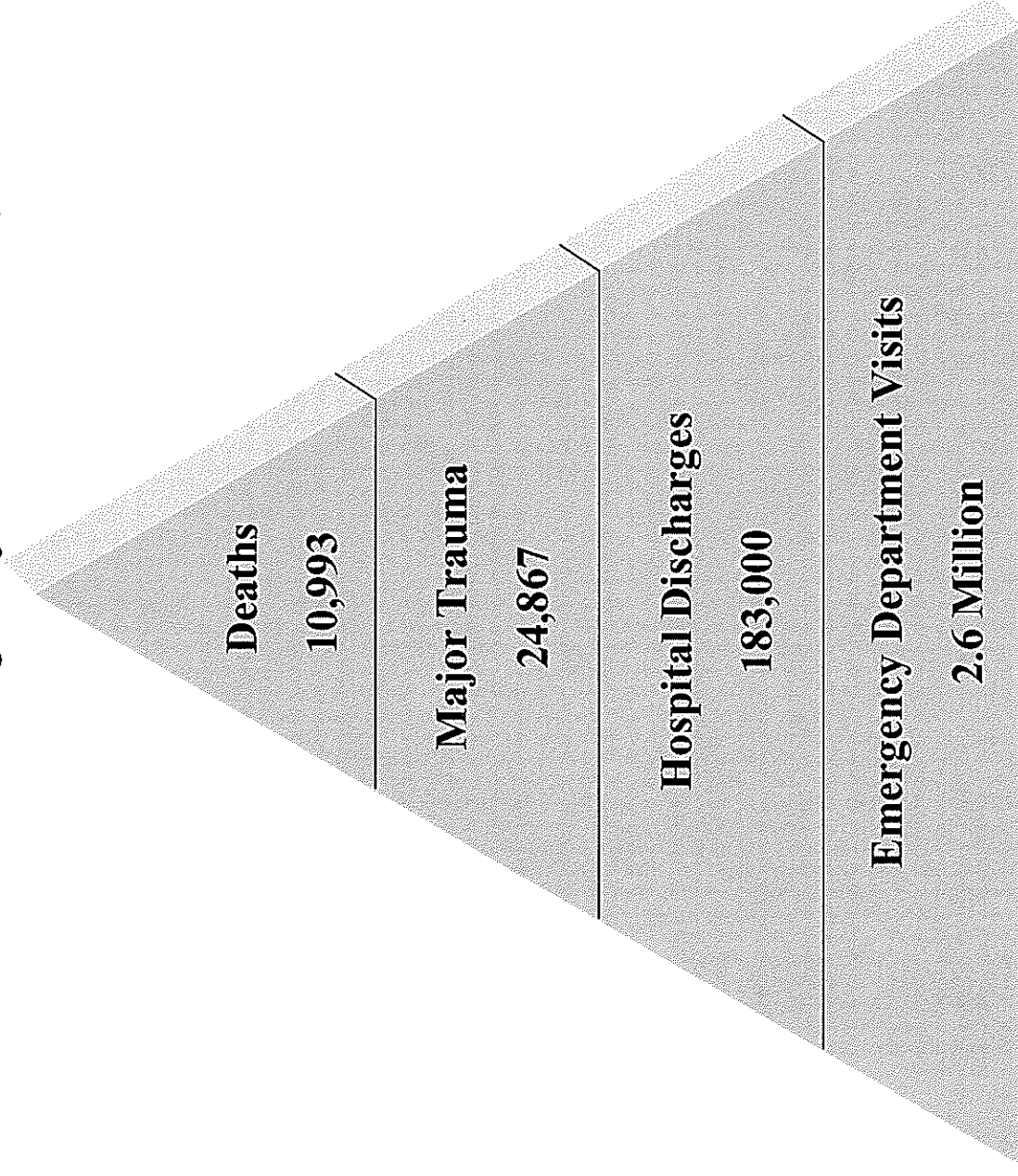
MORTALITY

- #1 cause of death in ages birth - 44 years
 - Every Day:
 - 17 die from unintentional injuries
 - 13 die from intentional injuries
- >10,000/year

MORBIDITY (estimates based on national figures)

- Every Day:
 - 60 receive permanent disabilities
 - 50 are severely injured
 - 150 are moderately injured
 - 1000 receive minor injuries
- >75,000/year

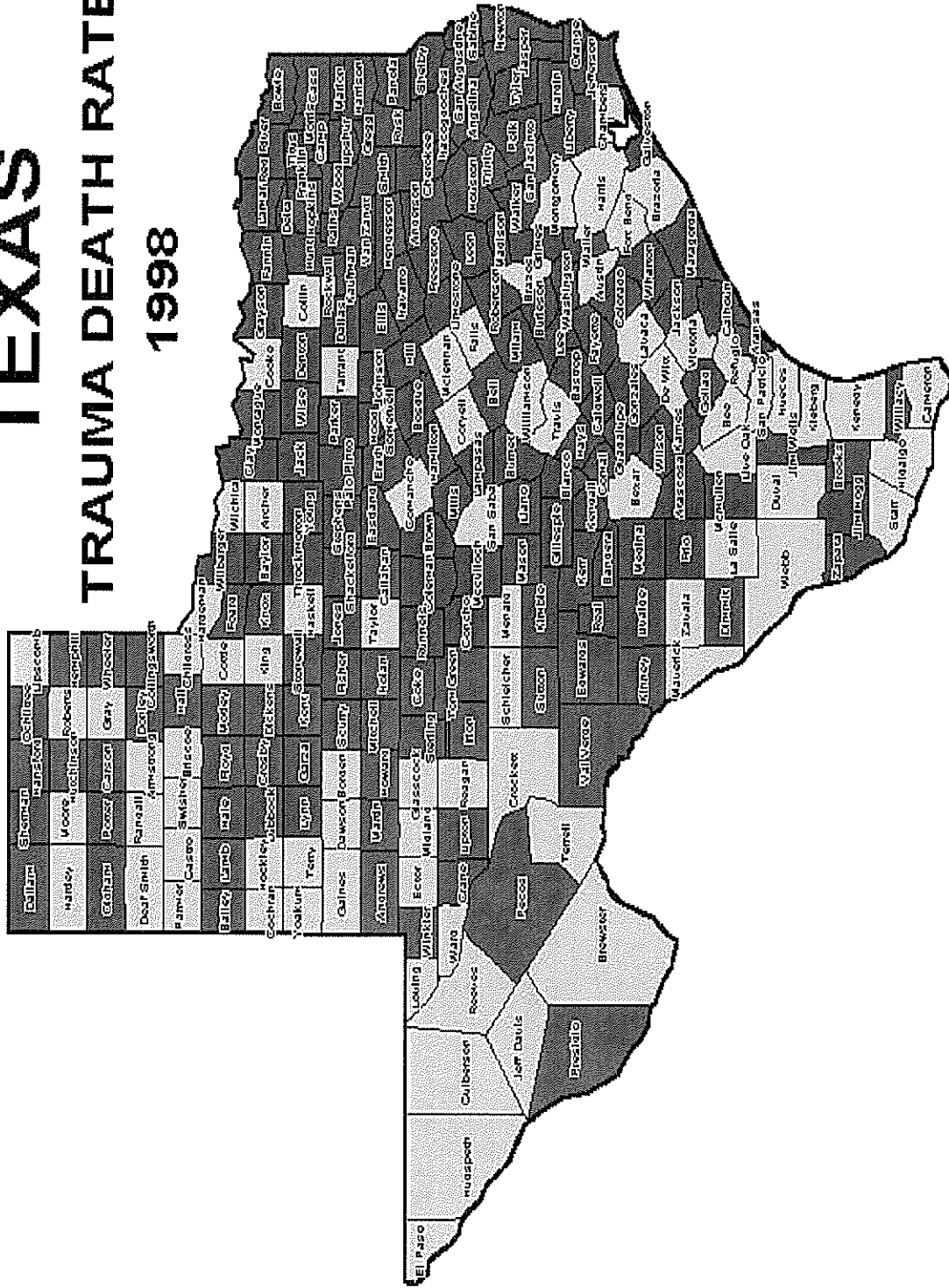
Burden of Injury in Texas, 1999



TEXAS

TRAUMA DEATH RATES

1998

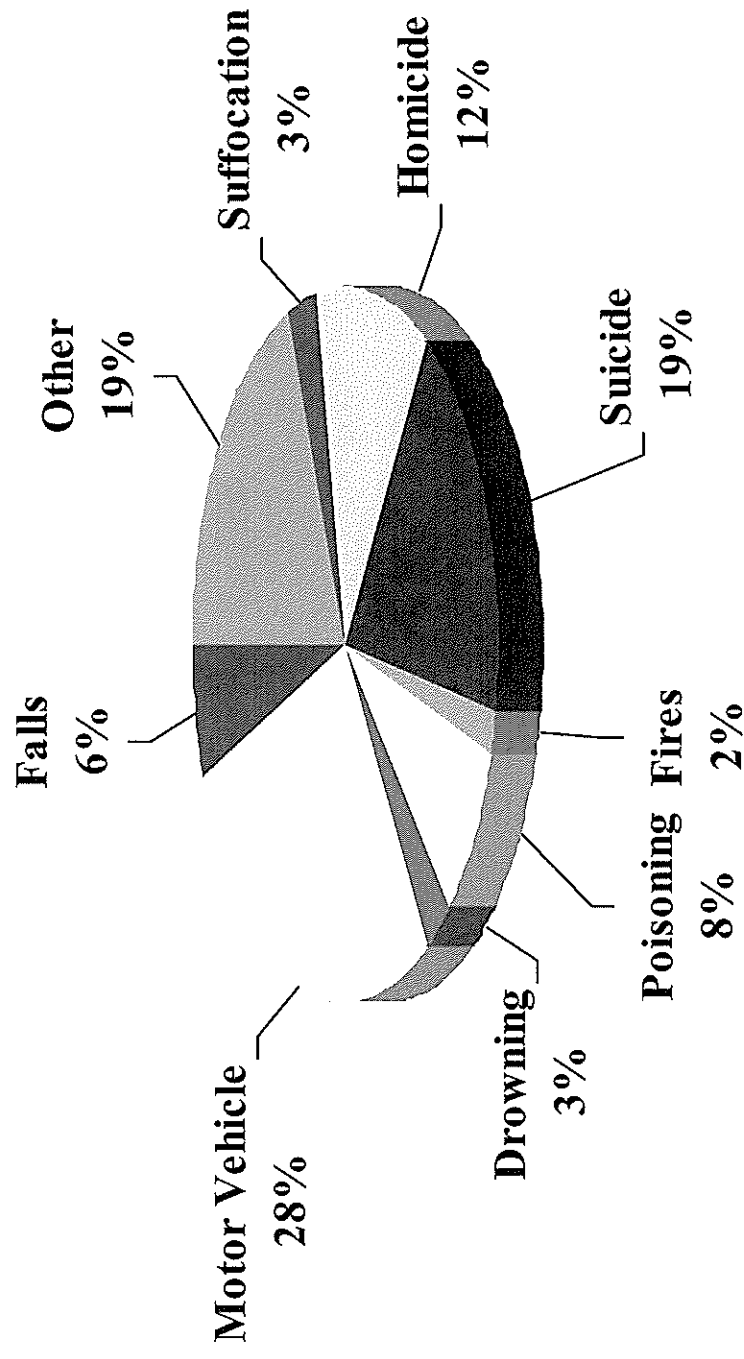


County with trauma death rate greater than 49.5 per 100,000.

County with trauma death rate less than or equal to 49.5 per 100,000.

Injury Deaths by Cause

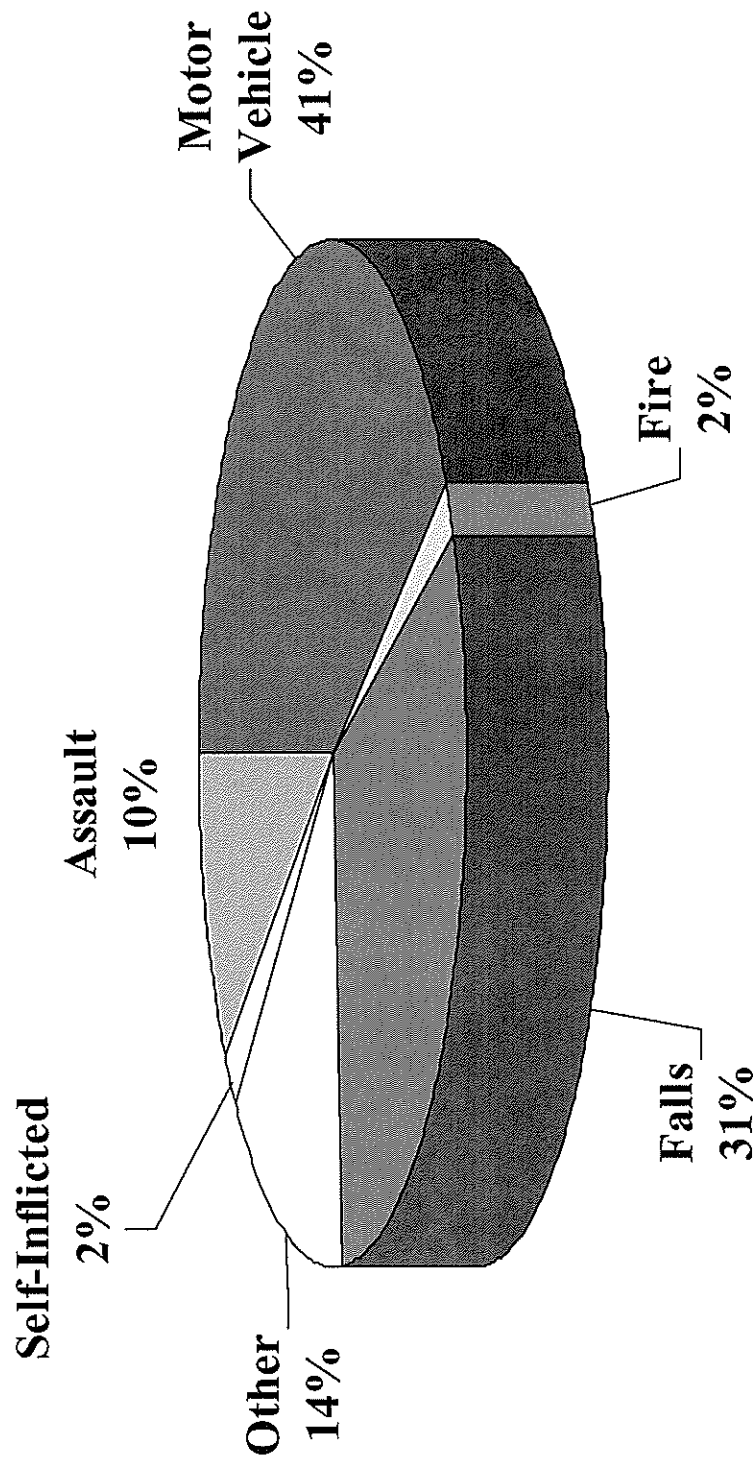
Texas 1999



Total number of injury deaths in 1999: 10,855

Major Trauma Injury by Cause

Texas 1999



Total number of major trauma injuries – 24,867

TRAUMA SYSTEM LEGISLATION

Omnibus Rural Health Care Rescue Act (HB-18)

May 1989

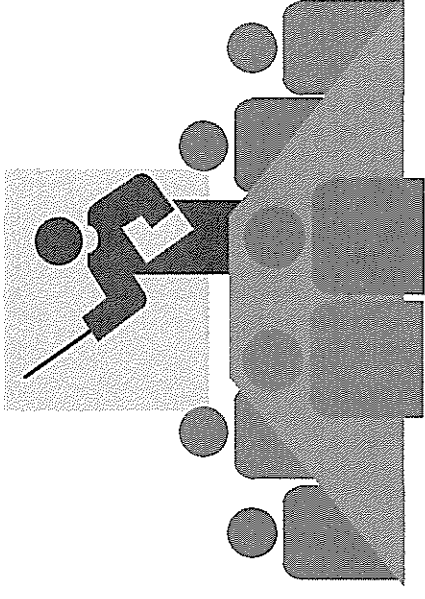
Major Provisions

Directed the Bureau of Emergency Management to:

- a. develop and monitor a statewide trauma system
- b. designate trauma facilities
- c. develop trauma registry
- d. monitor patient care in each health care facility in state

TRAUMA TECHNICAL ADVISORY COMMITTEE

1. Established by the trauma legislation
2. Diverse membership
3. Met 15 times over two years:
 - a) Proposed structure for the state trauma system
 - b) Developed rules for implementing the system

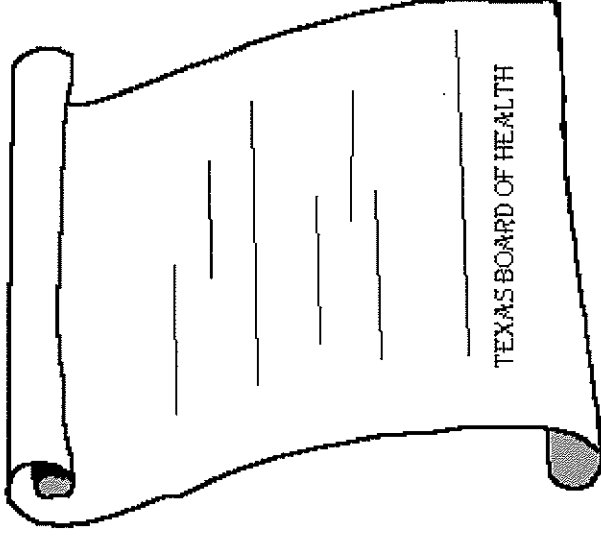


TRAUMA SYSTEM RULES

(Adopted by the Texas Board of Health in January 1992)

Major Provisions

1. Divide the state into 22 regions
(trauma service areas-TSAs)
 - a. Must consist of at least three counties
 - b. Must have at least a potential General (Level III) trauma facility willing to take on Lead trauma facility responsibilities
 - c. May be re-aligned



as of June 1998

[illegible]

TRAUMA SYSTEM RULES

(Adopted by the Texas Board of Health in January 1992)

Major Provisions (continued)

2. Provide for the establishment of Regional Advisory Councils (RACs)

- a. Must be representative of all interested health care entities in TSA.
- b. Voluntary entity.
- c. After established, requests recognition from the Bureau.
- d. Develops a regional trauma system plan addressing all components of a trauma system.

REGIONAL ADVISORY COUNCIL

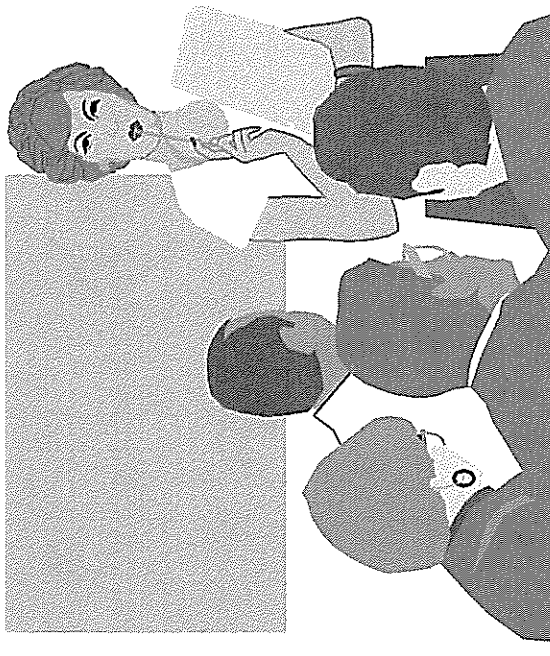
FUNCTIONS

- Development & Implementation of a Regional EMS/Trauma System Plan
 - Prevention
 - Public Information / Education
 - Access to the System
 - Bystander Care
 - Communications
 - Prehospital Healthcare
 - Bypass & Diversion Criteria
 - Triage, Treatment & Transport Protocols
 - Transportation
 - Community Hospitals/Trauma Facilities
 - Transfer Guidelines
 - Tertiary Trauma Facilities
 - Specialty Trauma Facilities
 - Rehabilitation
 - System Quality Improvement

REGIONAL ADVISORY COUNCIL FUNCTIONS (continued)

- Public Forum for Trauma Service Area Issues
- Trauma Service Area Complaint Review
- Networking with other RACs
- State Reporting
- CONSENSUS BUILDING

•Distribution of State Monies !!



SYSTEM DEVELOPMENT TO DATE

Twenty-Two Regional Advisory Councils Established (1995)

Panhandle RAC	Concho Valley RAC
SPEMS, Inc.	Central Texas Trauma Council
North Texas RAC	Heart of Texas RAC
Big Country RAC	Brazos Valley RAC
North Central Texas RAC	Capital Area Trauma RAC
Northeast Texas RAC	South Texas RAC
Piney Woods RAC	Southeast Texas RAC
Deep East Texas RAC	East Texas Gulf Coast RAC
Far West Texas & Southern New Mexico RAC	Golden Crescent RAC
Texas “J” RAC	Seven Flags RAC
	Coastal Bend RAC
	Lower Rio Grande Valley RAC

All Have Regional EMS/Trauma System Plan Approved

TRAUMA SYSTEM RULES

(Adopted by the Texas Board of Health in January 1992)

Major Provisions (continued)

3. Establish the trauma facility designation process.
4. Establish the trauma registry.

TEXAS TRAUMA FACILITIES

Level I	Comprehensive Trauma Facility
Level II	Major Trauma Facility
Level III	General Trauma Facility
Level IV	Basic Trauma Facility

TEXAS TRAUMA FACILITIES

Level I

Baylor University Medical Center	Dallas
Ben Taub General Hospital	Houston
Brooke Army Medical Center	San Antonio
East Texas Medical Center	Tyler
Memorial Hermann Hospital	Houston
Parkland Memorial Hospital	Dallas
University Hospital	San Antonio
University Medical Center	Lubbock
University of Texas Medical Branch	Galveston
Wilford Hall Air Force Medical Center	San Antonio

TEXAS TRAUMA FACILITIES

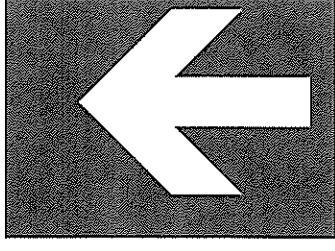
Level II

Brackenridge Hospital	Austin
Covenant Medical Center	Lubbock
Harris Methodist Hospital	Fort Worth
Hillcrest Baptist Medical Center	Waco
John Peter Smith Health Network	Fort Worth
Methodist Medical Center	Dallas
R.E. Thomason General Hospital	El Paso
Scott & White Memorial Hospital	Temple
Trinity Mother Frances Hospital	Tyler
Wadley Regional Medical Center	Texarkana
William Beaumont Army Medical Center	El Paso

TEXAS TRAUMA FACILITIES

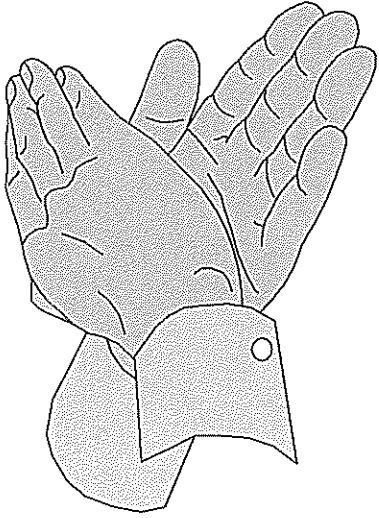
Level III - 35

Level IV - 134



TOTAL OF 190 DESIGNATED TRAUMA
FACILITIES IN TEXAS

(as of 10/22/01)



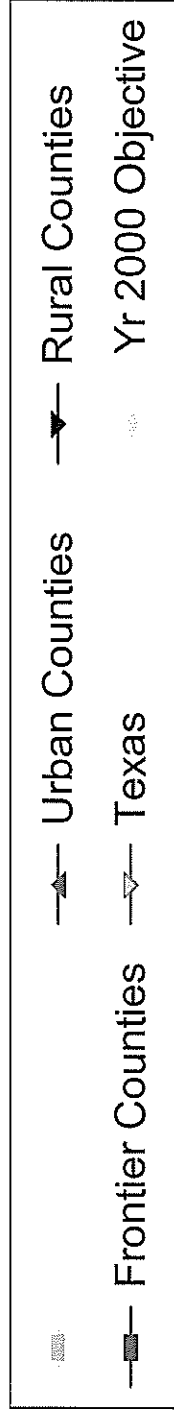
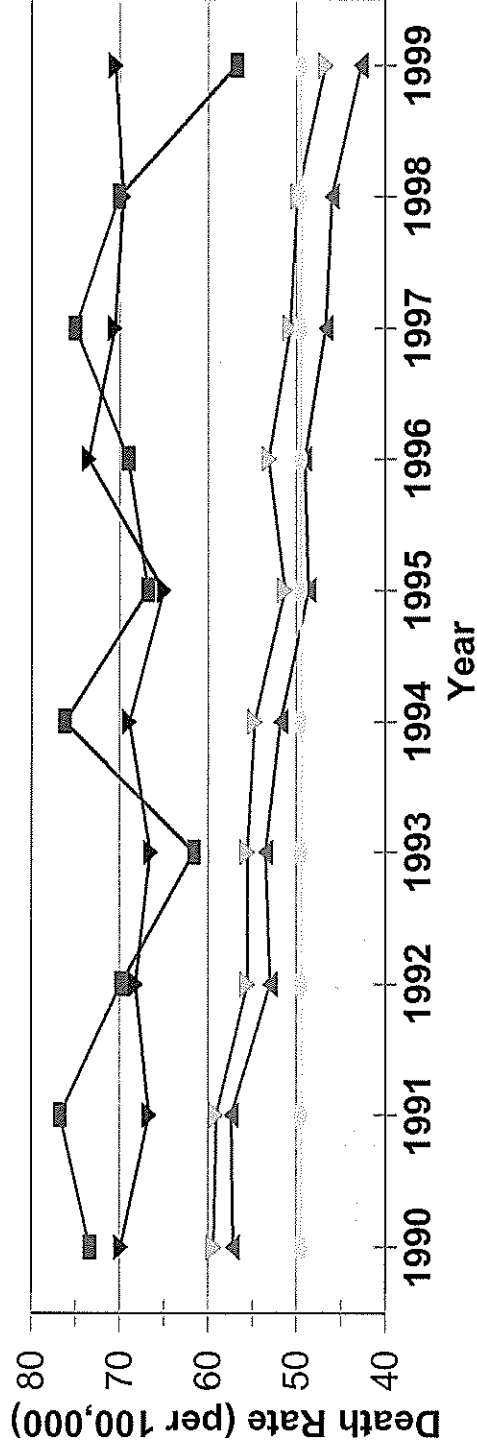
TEXAS TRAUMA SYSTEM

MAJOR ACCOMPLISHMENTS

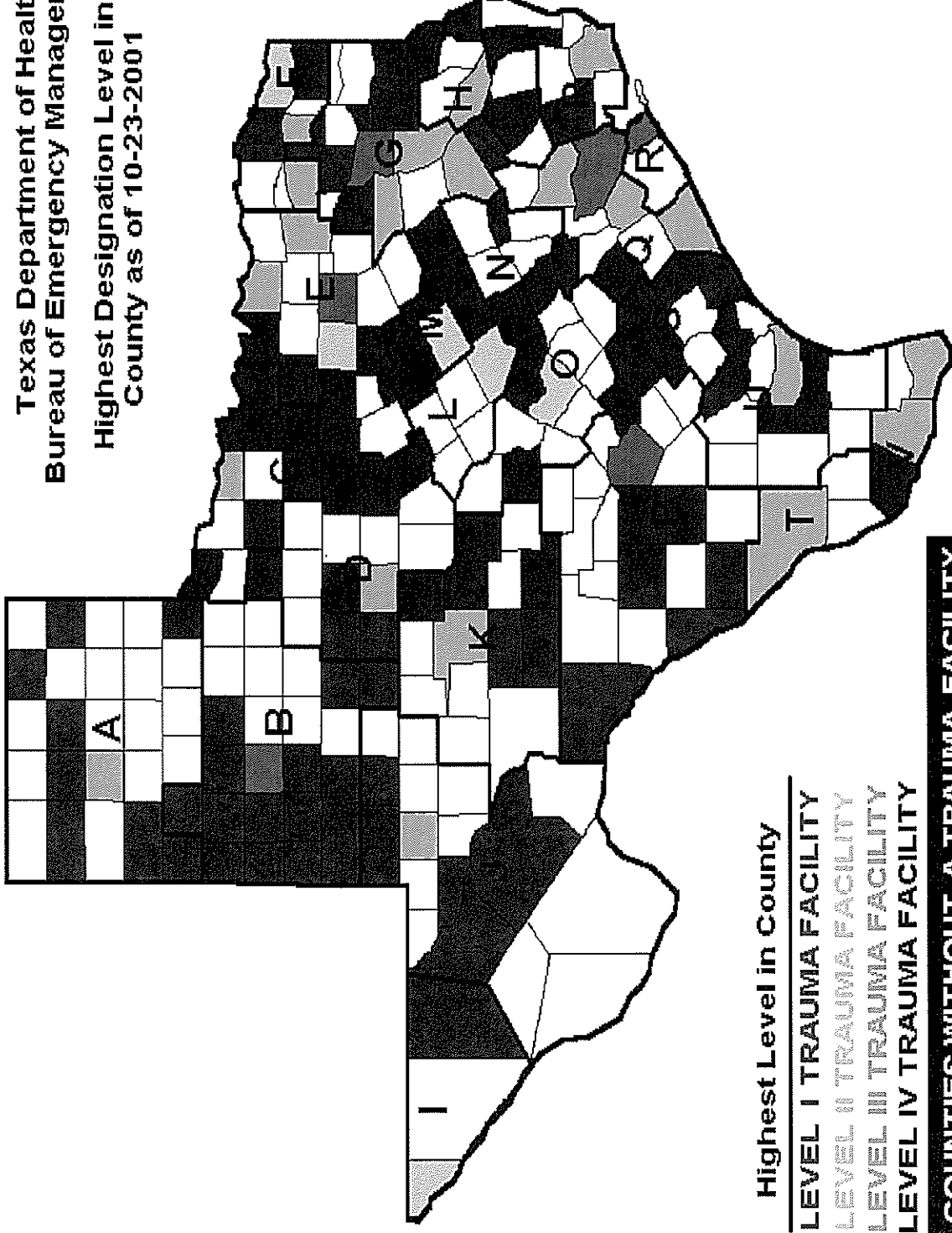
- * 21% DECLINE IN THE TRAUMA DEATH RATE
- * A RAC IN EVERY TRAUMA SERVICE AREA
- * FIRST MULTI-STATE RAC IN THE COUNTRY
- * FIRST MILITARY TRAUMA FACILITIES IN U.S.
- * MOST DESIGNATED FACILITIES IN U.S.
- * STATE FUNDING

Trauma Death Rate by Area

1990-1999



**Texas Department of Health
Bureau of Emergency Management
Highest Designation Level in
County as of 10-23-2001**



Highest Level in County

LEVEL I TRAUMA FACILITY

LEVEL II TRAUMA FACILITY

LEVEL III TRAUMA FACILITY

LEVEL IV TRAUMA FACILITY

COUNTIES WITHOUT A TRAUMA FACILITY

**Texas Department of Health
Bureau of Emergency Management
as of 10-23-2001**

NO LEAD OR TERTIARY FACILITIES

TSA WITH COMPLETED SYSTEM SURVEYS

TSA WITH TERTIARY FACILITIES AND RAC PLAN

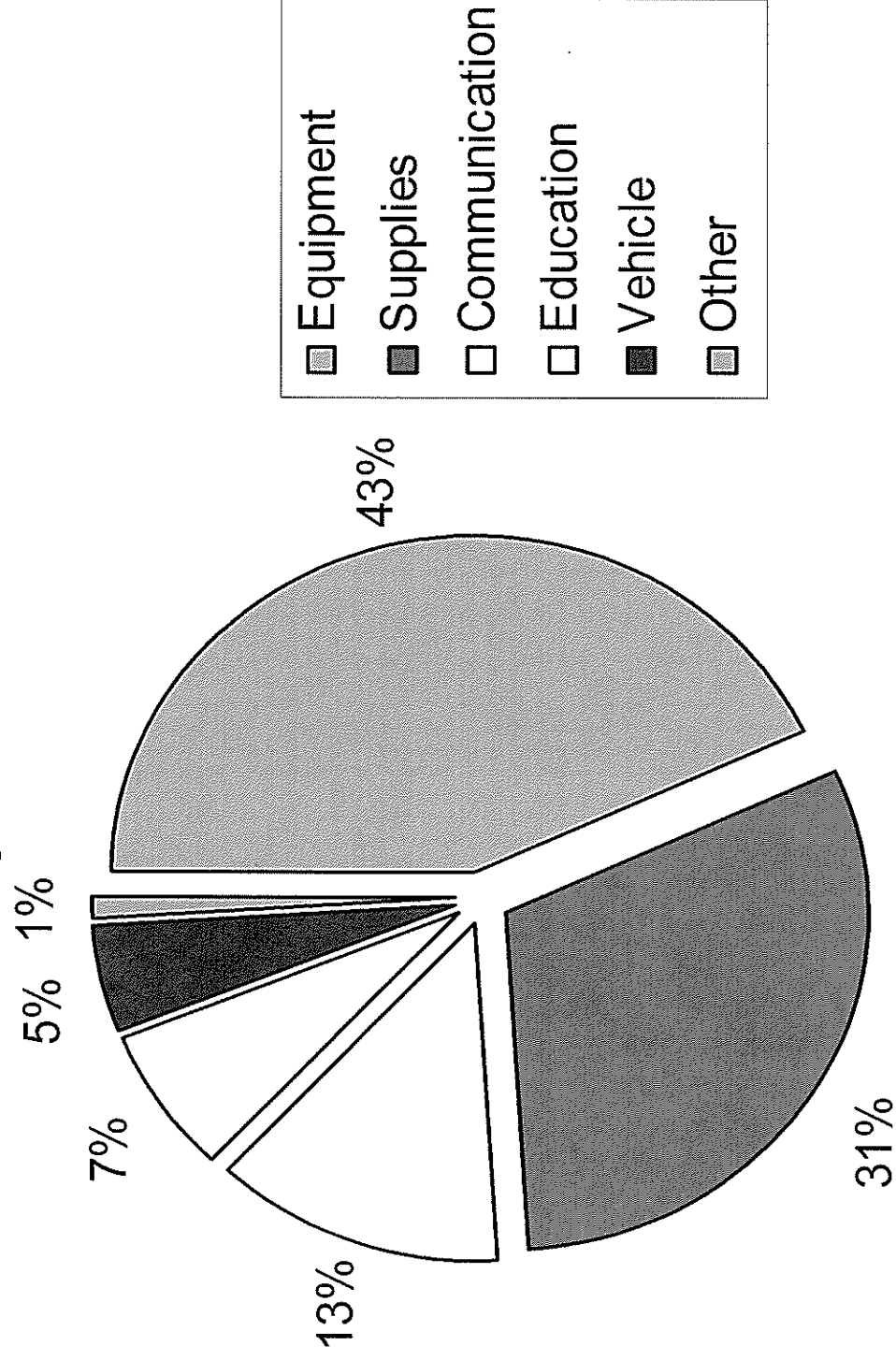
EMS&TRAUMA CARE SYSTEM ACCOUNT

(911 FUNDS)

- Established by SB-102 in 1997
- Specifies allotments
 - \$250,000 extraordinary emergencies
 - 70% - eligible EMS providers
 - 25% - eligible RACs
 - 3% - administrative costs
 - 2% - uncompensated trauma care
- \$4 million for FY98/99/00/01

EMS and Trauma Care System Account

EMS Expenditures - FY00



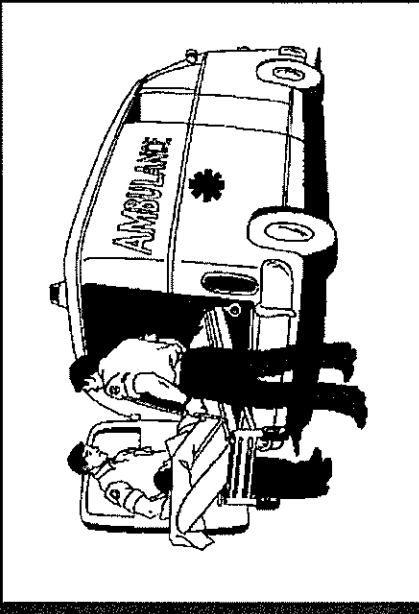
EMS&TRAUMA CARE ENDOWMENT

(TOBACCO FUNDS)

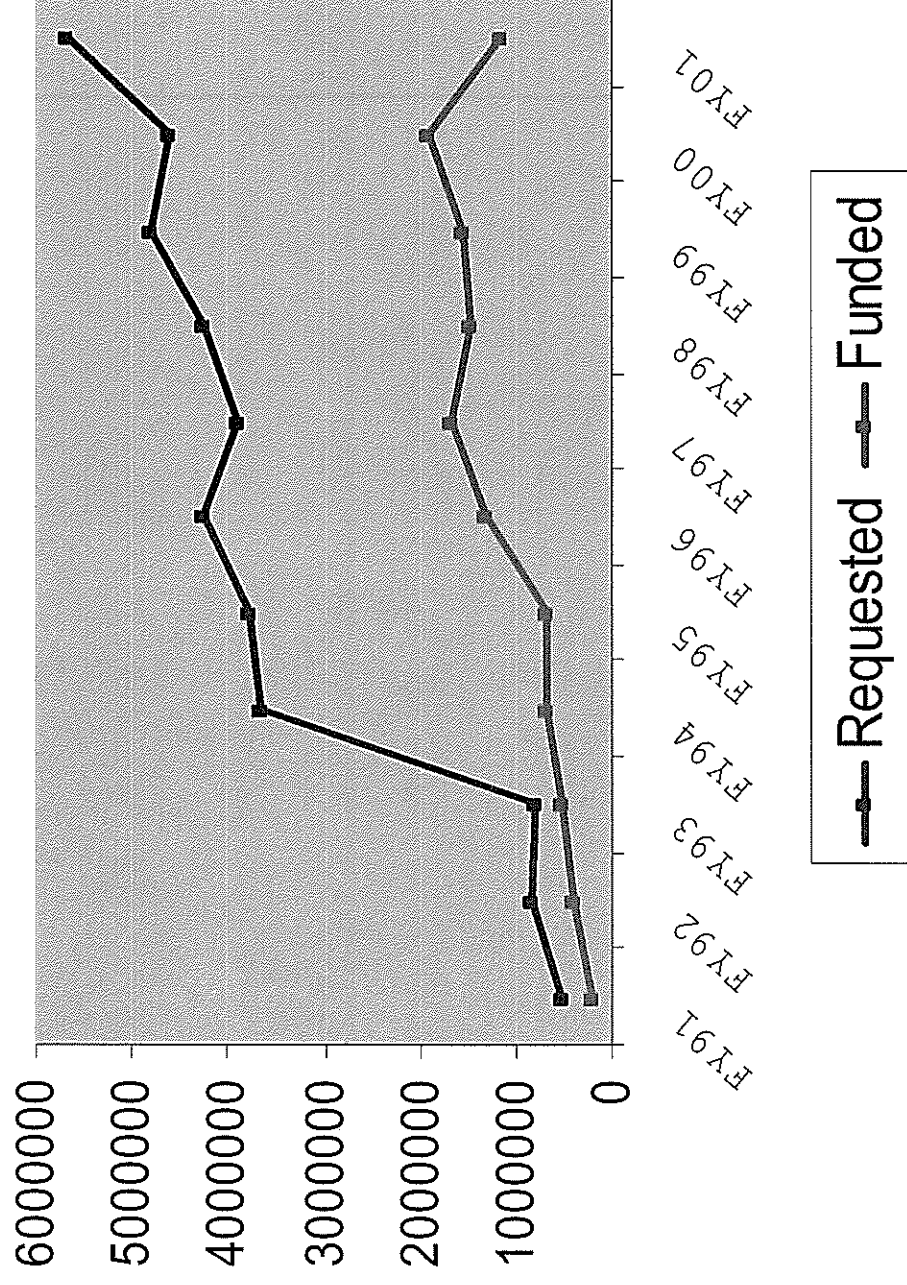
- Established by Legislature in 1999
- ~\$4.5 million for FY00/01
- projected ~\$3.8 million for FY02
- Grant programs
 - EMS Local Projects
 - RAC System Grants
 - Hospitals
 - ECA Training

EMS LOCAL PROJECT GRANTS

- Purpose
 - ↑ the availability and quality of EMS statewide
- Recipients
 - Licensed EMS providers
 - Registered First Responders
- Size of Program
 - 1991 - \$210,309 / 12 projects
 - 2001 - \$1,624,657 / 138 projects
 - Requested: \$5,669,395 / 290 projects
 - awards range from \$250 to \$49,861

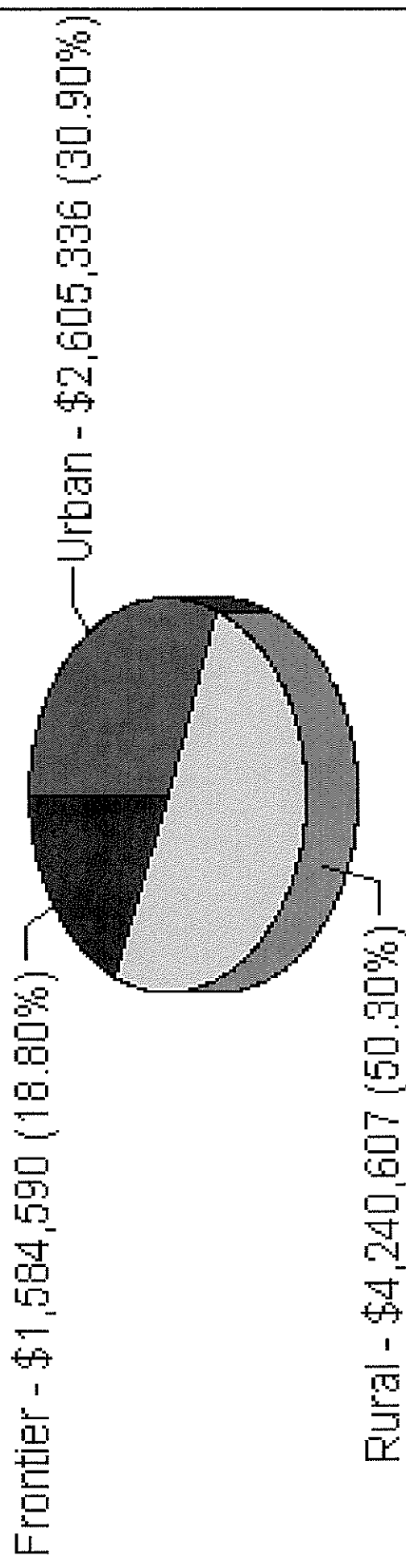


Local Projects Grants Requested vs. Funded (FY91-FY01)



EMS Local Projects Grants

Awards by Population, 1991 - 1999



Regional Advisory Council System Grants

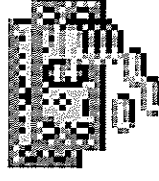
- Established in FY00
- Purpose
 - Expedite implementation of the system to reduce morbidity and mortality due to injuries
- Recipients
 - Regional Advisory Councils
- Size of Program
 - FY00 - \$2.2 million
 - FY01 - \$2 million
 - FY02 - \$1.6 million

REGIONAL ADVISORY COUNCILS

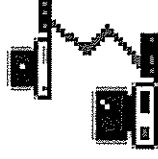
UTILIZATION OF STATE FUNDS



•1/800 Trauma Transfer numbers



•EMS and Hospital grant programs



•Regional data systems



•System planning, implementation, and evaluation



•EMS/Trauma Education courses



•Public awareness campaigns

•Injury Prevention activities/programs

National
**SAFE
KIDS**
Campaign®

Hospital Grants

- Established in 2001
- Purpose
 - strengthen the system by supporting hospitals in becoming or remaining designated
- Recipients
 - general licensed hospitals currently designated or seeking designation
- Size of Program
 - FY01 \$500,000
 - FY02 \$400,000
- Typical Awards
 - equipment and training

Emergency Care Attendant Training

- Established by HB-2446 (77th Legislature)
- Purpose
 - to increase availability of certified EMS personnel in rural/underserved areas
 - training is to be free to students who make a commitment to serve with a local firm for at least a year
- Recipients
 - organizations located in rural/underserved areas directly or indirectly for providing EMS
- Size of Program
 - FY02 - \$261,000
 - FY03 - \$250,000

TEXAS TRAUMA SYSTEM

Where should Texas EMS and Emergency Health Care Systems be in the year 2010?

The Governor's EMS and Trauma Advisory Council (GETAC) has begun a strategic planning process, which will include:

- Surveys
- Public Hearings
- Historical Perspective
- Current Literature Review

Goal is to have a plan completed by early fall 2002

CURRENT ISSUES

- Critical EMS and hospital shortages, particularly in rural and frontier Texas
- Overload of the system
- Specialty physician concerns
- Uncompensated care
- More involvement by the tort system & healthcare financing organizations
- Trauma System becomes the “Standard of Care” with additional emphasis on “primary” prevention
- Move toward comprehensive Emergency Health Care Systems
- *Preparation for terrorism*

TEXAS TRAUMA SYSTEM

VISION

That all the people of Texas,
because of the effectiveness of our prevention programs,
are the least likely in the nation to be seriously injured or killed;
but if injured, have the best chance for survival
and maximal potential for recovery.