Emergency Medical Services (EMS) in Montana

Presentation by the

Legislative Audit Division

To the Children, Families, Health and Human Services Legislative Interim Committee

January 25, 2008

Services Vistied During Fieldwork



Areas of Discussion

- EMS Incidents
- EMS Units
- EMS Workforce

EMS INCIDENTS

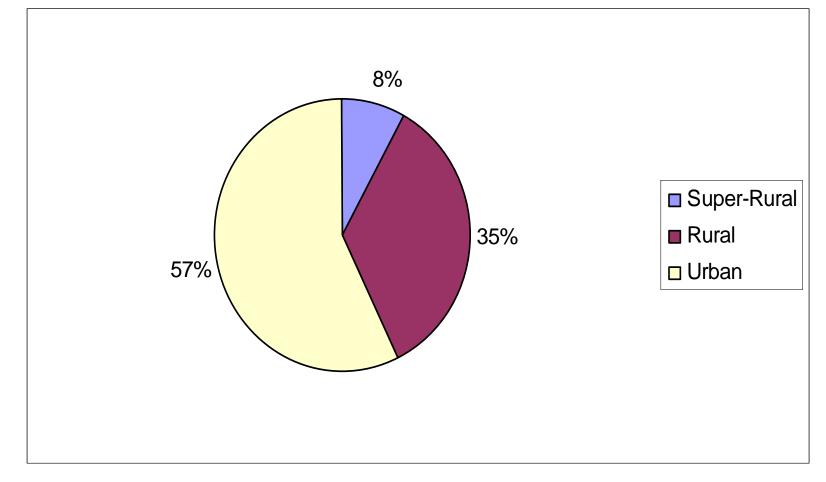
- Number of Incidents
- Characteristics of Incidents
- Demographics of Individuals Using EMS

Estimated Total Number of EMS Incidents in CY2006

Statewide Total = 72,382
Up to 30% did not result in a patient transport.

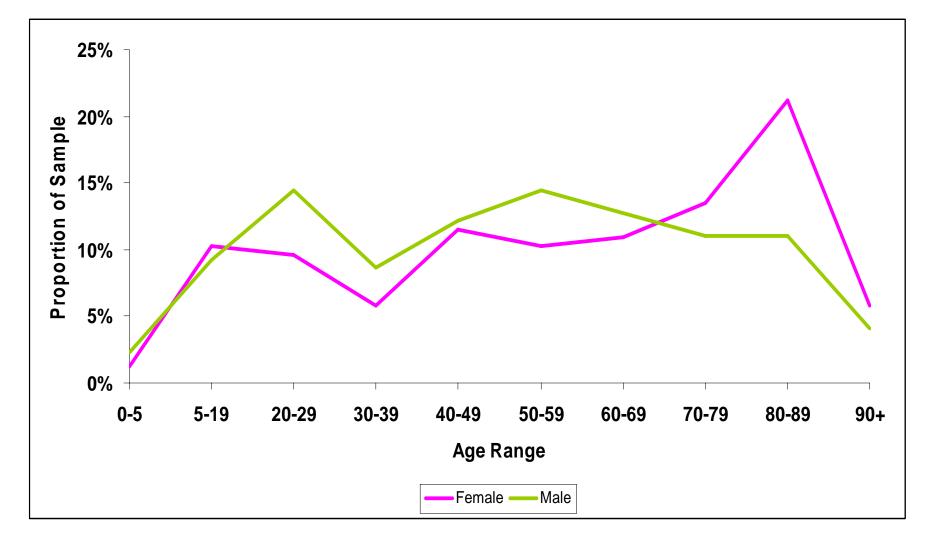
Source: Compiled by LAD from EMS unit records using variable sampling methodologies.

Occurrence of EMS Incidents by Population Designation



Source: Compiled by LAD from EMS unit records using variable sampling methodologies.

Age Data by Gender

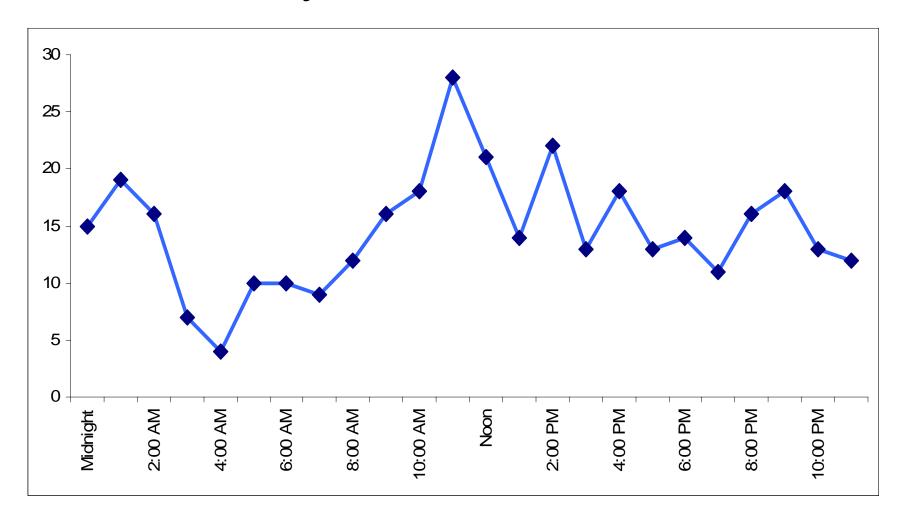


Reasons for Calling 911 for EMS Care

Type of Incident	Percentage
Medical	58%
Motor Vehicle Crash	16%
Trauma	9%
Suicide/Suicide Attempt	5%
Cardiac-Related Medical	4%
Other/Miscellaneous	3%
Criminal Assault	3%
Alcohol and Drug Related	1%

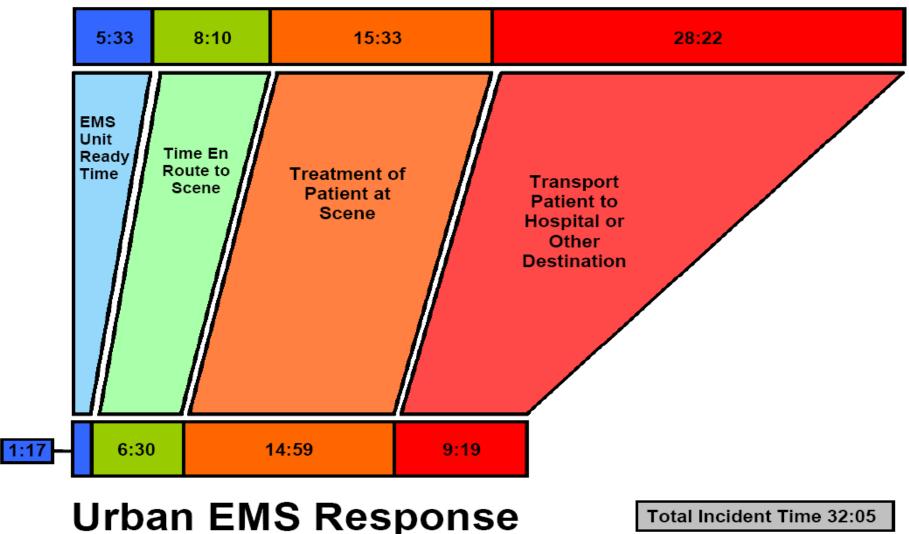
Type of Scene	Percentage
Home/Residence	51%
Street or Highway	21%
Public Building	12%
Health Care Facility	5%
Miscellaneous (Trade, Fire, Ranch)	6%

Time of Day Data



Rural EMS Response

Total Incident Time 57:38



Insurance Information

Type of Insurance Coverage	Percentage
MEDICARE	39%
NO INSURANCE	28%
PRIVATE INSURANCE	17%
MEDICAID	11%
INDIAN HEALTH SERVICES	2%
VA	1%
CONTRACT / 911	0.7%
WORK COMP	0.5%

Source: Compiled by LAD from professional billing service records.

EMS UNITS

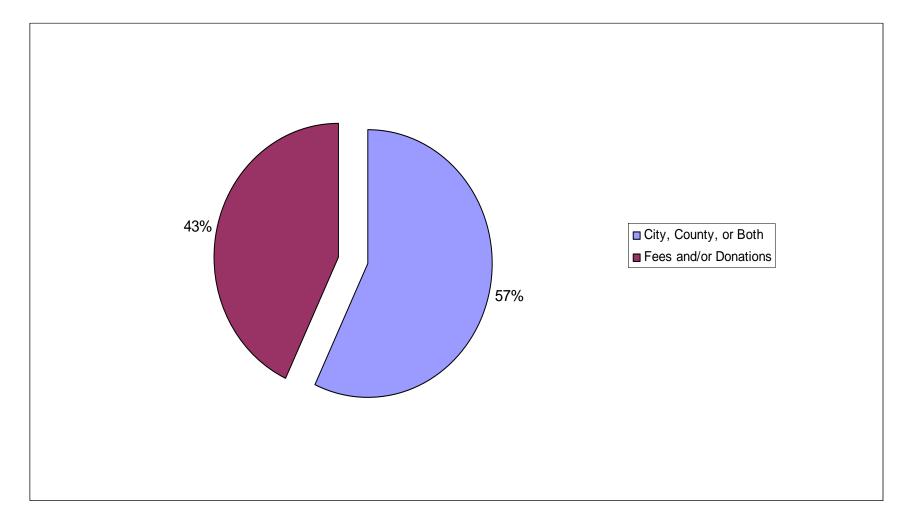
- Information on how units are organized and funded.
- Location of EMS units to the statewide total population and to populations on American Indian Reservations.

EMS Unit Organization/Classification

- Industrial
- Private
- Hospital
- City
- County
- Volunteer
- Fire Department
- Law Enforcement
- Non-Profit corporation
- Tribal
- Other

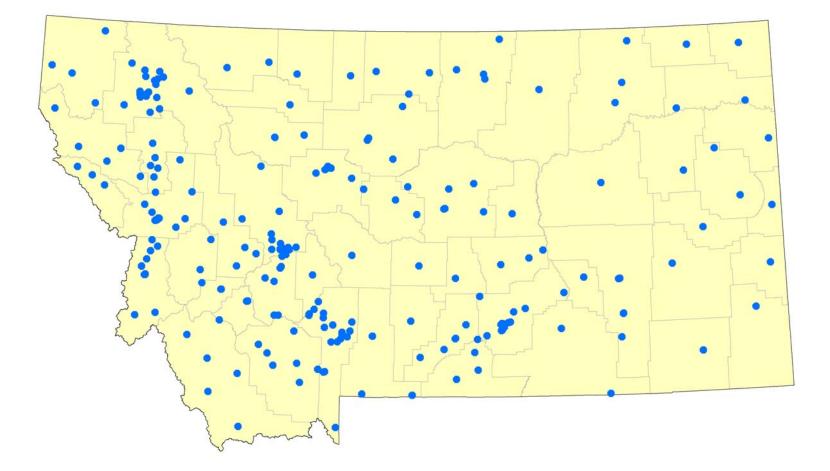
- Public
- Private
- Fire
- Hospital Based

Primary Funding Sources

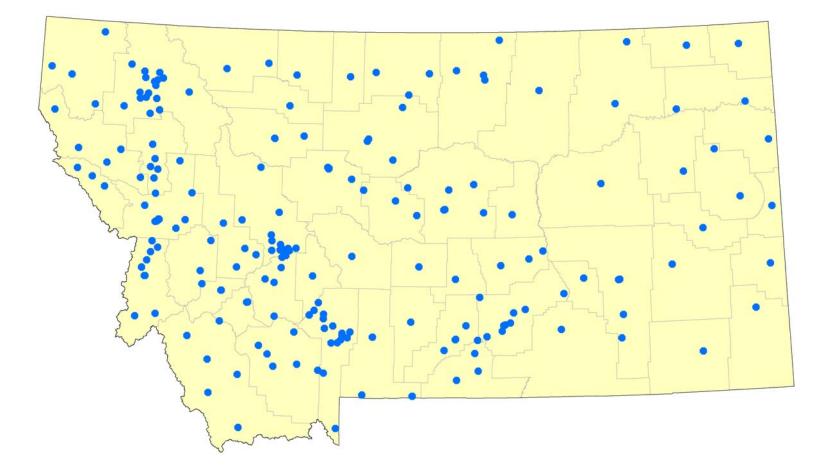


Source: Compiled by LAD from DPHHS records (EMS license applications).

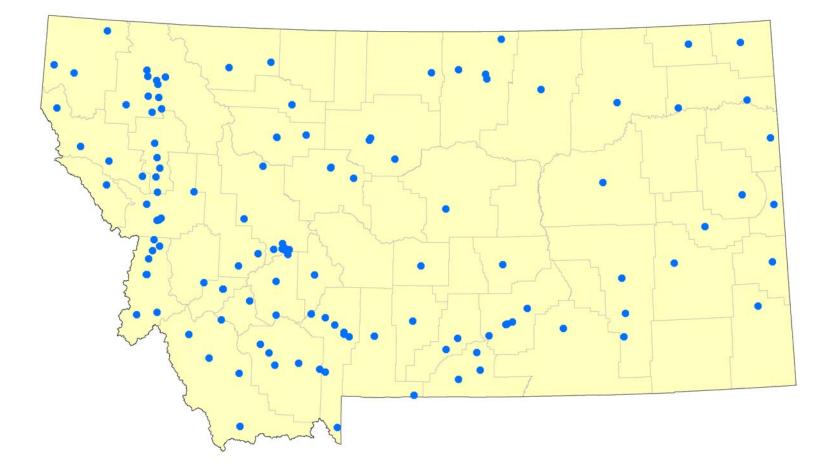
Licensed EMS Units



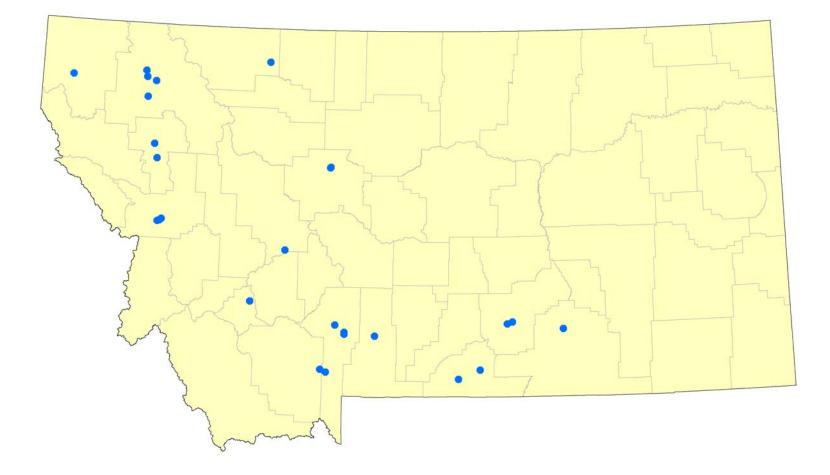
911 Responding EMS Units



Some Level of Advanced Care



Advanced Care 24/7



Proximity of Montana's Population to EMS Urban vs. Rural

Within 5 Miles of an EMS Unit			
Type of EMS Unit Urban Rural			
All 911 Responding Units	97%	72%	
Some Level of ALS Care Units	62%	50%	
ALS Care 24/7 Units	83%	18%	

Within 10 Miles of an EMS Unit				
Type of EMS Unit Urban Rural				
All 911 Responding Units	100%	85%		
Some Level of ALS Care Units	77%	66%		
ALS Care 24/7 Units	93%	27%		

Within 30 Miles of an EMS Units			
Type of EMS Unit Urban Rural			
All 911 Responding Units	100%	99%	
Some Level of ALS Care Units	100%	92%	
ALS Care 24/7 Units	95%	55%	

Montana's American Indian Reservation and Rural Populations Proximity to EMS Comparison

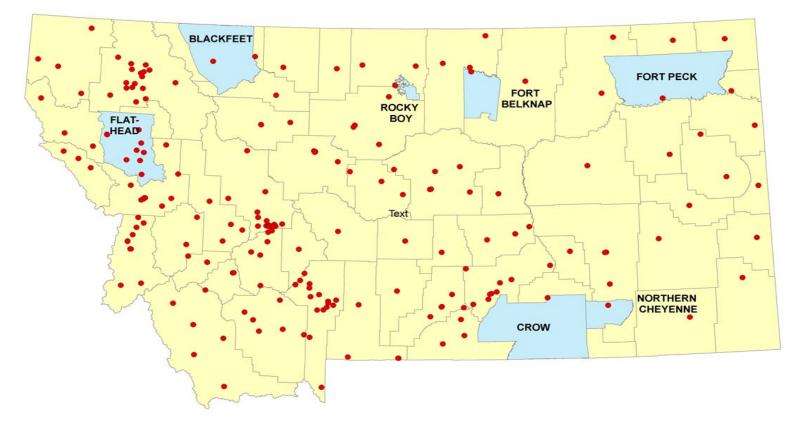
	American Indian Reservations Population	Rural Population
5 Miles	59%	72%
10 Miles	70%	85%
30 Miles	95%	99%

American Indian Population on Reservations and Proximity to EMS per Reservation

American Indian Reservation	5 Miles	10 Miles	30 Miles
Blackfeet	61%	70%	99%
Crow	13%	23%	69%
Flathead	83%	97%	100%
Fort Belknap	48%	49%	63%
Fort Peck	41%	47%	100%
Northern Cheyenne	60%	64%	100%
Rocky Boy	32%	68%	100%

Proximity of EMS Units

to American Indian Reservations in Montana



EMS WORKFORCE Emergency Medical Technicians (EMTs)

- Approximately 4600 EMTs
- Number of EMTs per Capita
- Practicing EMTs vs. Licensed EMTs
- Demographics
- Turnover

Number of Licensed EMTs per Capita

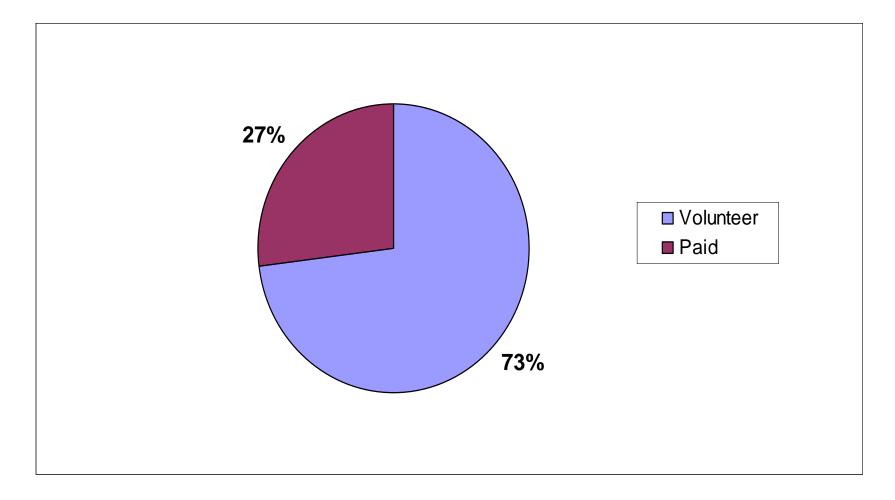
- In Montana, 5 EMTs per 1000 individuals.
- The national average is approximately 3 EMTs per 1000 individuals.

Practicing EMTs

Number of licensed EMTs on EMS Unit rosters actually practicing EMS care.

- 57% -- All EMS Units
 - 91% -- Paid Units
 - 48% -- Volunteer or Combination of Paid/Volunteer Units

Percentage of EMS Units Identifying Service Personnel as Paid or Volunteer



Source: Compiled by LAD from DPHHS hard copy records (EMS license applications).

EMS Units vs. Number of EMTs

Type of Compensation	Number of Units	Number of EMTs	Percentage
Paid	79	2,186	47%
Volunteer	181	2,462	53%

Source: Compiled by LAD from DPHHS information systems.

Age Data for EMTs

Age Range (years)	Total
18-29	20%
30-39	25%
40-49	28%
50 and older	28%

Source: Compiled by LAD from BOME records.

Length of Service for EMTs

Years of Service	Total
0-3	37%
4-6	24%
7-9	17%
10 or more	22%

Source: Compiled by LAD from BOME records.

Turnover in the Profession

- Turnover exists.
- High stress occupation.
- Work is volunteer in nature in MT.
- All services facing issues with turnover, and rural volunteer services more affected.
- Detailed analysis of turnover in the profession in the audit report.

Summary of Workforce Data

EMTs:

- □ The total number of licensed EMTs does not reflect an accurate number of EMT practitioners.
- The work is considerably volunteer in nature in MT, primarily in rural areas
- □ Many have less than 3 years experience.
- □ Turnover is occurring—retention averages 6-8 years.

Questions?