



2009 National Healthcare Preparedness Evaluation and Improvement Conference:

Progress, Promising Practices, Lessons Learned

July 23, 2009

Field Tested: Assessment from Real Life Events

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- Gap Analysis Planning
 - Summary of activities to date
 - What has happened as a result
- Overview of Real Life Events
 - How Data Collection Paid Off
- How this information and data better positions us as a Nation prepared



FEMA IAA – 2009

- Will focus on Catastrophic Earthquake and All Hazards Planning
 - Regions IX and X as well as for other regions that include states impacted by New Madrid Seismic Zone event
 - Within Region IX, focus on health and medical credential resource typing effort in California and “Earthquake Shakeout” (simulated 7.8 earthquake along the San Andreas Fault in Southern California)
 - Within Region VIII, support the ongoing work on the “Utah Catastrophic Earthquake” scenario (a 7.0 quake along the Wasatch Fault, Salt Lake City segment – occurs around 2pm – temps below freezing- around the holidays)
- Will encompass all States to the extent practical
- IAA just executed awaiting funding



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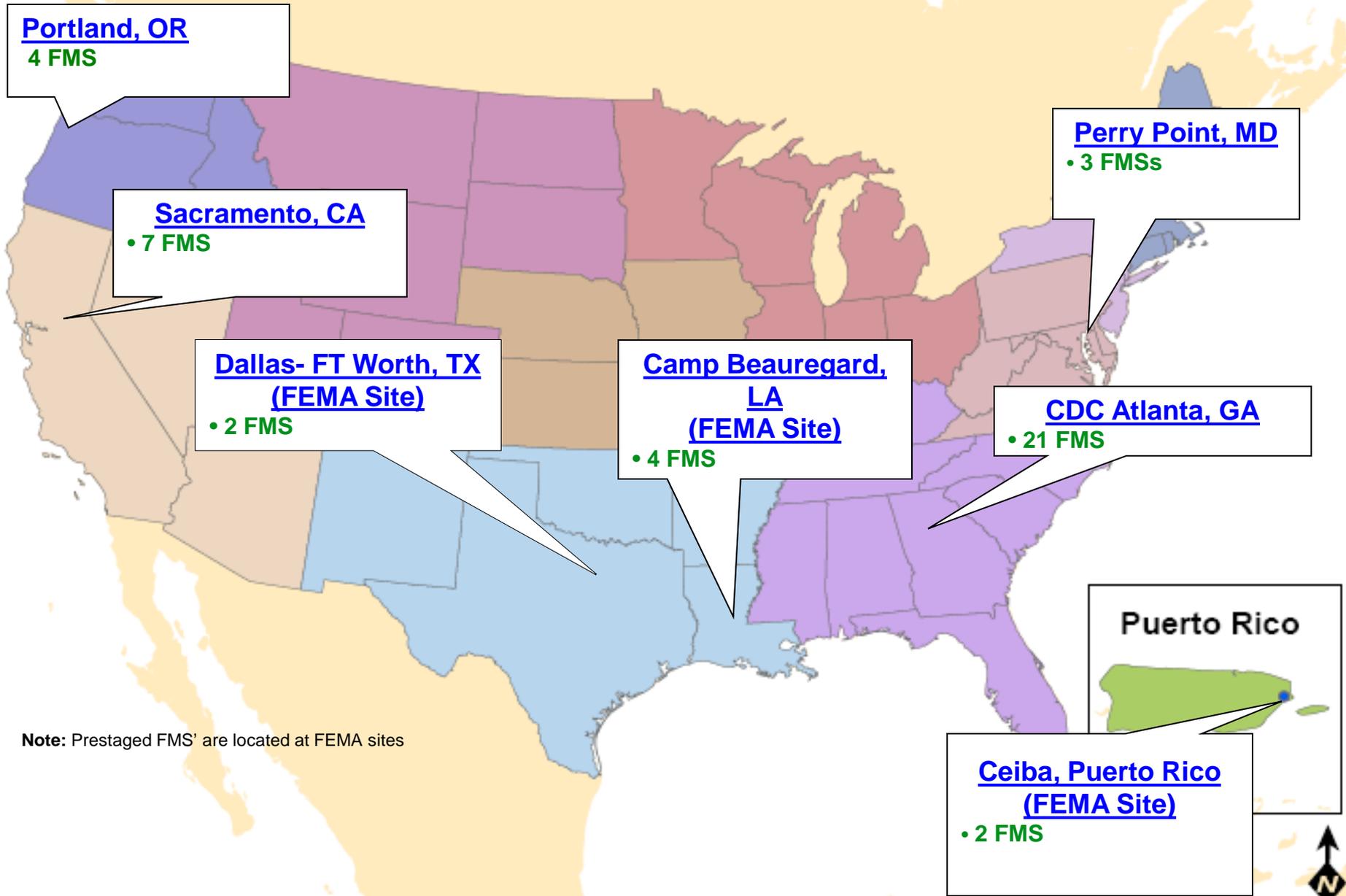
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So What Is The Result of the Gap Planning??

FMS Deployment Status



Note: Prestaged FMS' are located at FEMA sites

As of 06 June 09, 1030 hrs

Controlled Unclassified Information

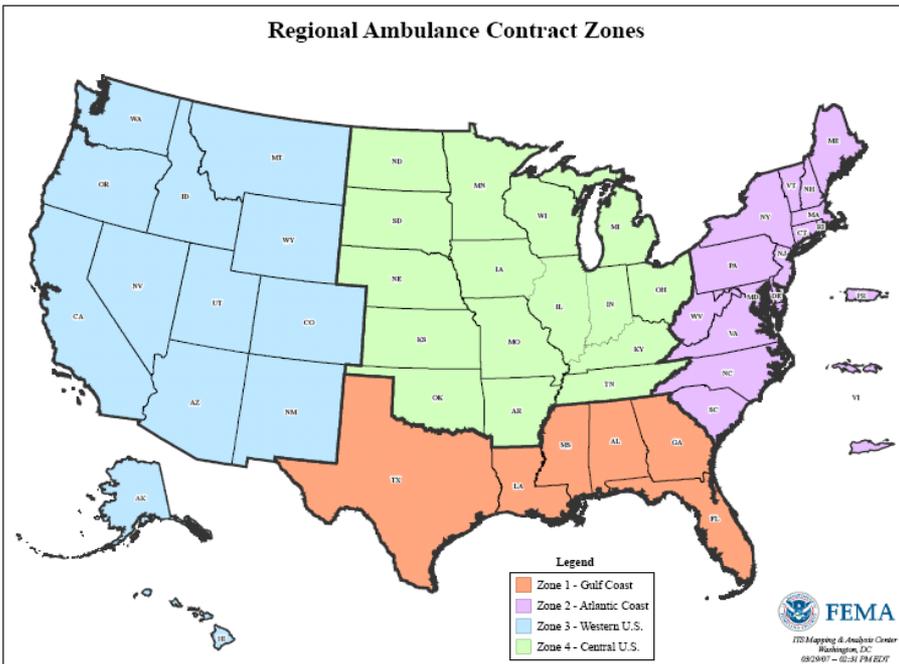




FEMA Ambulance Contract

- **Jointly administered by FEMA (contract funding) and HHS/ASPR (contractor's technical representative)**
- **Awarded to American Medical Response, August, 2007 for East and Gulf Coast zones**
- **Zones 3 & 4 Award Expected Summer 09**
- **GROUND AMBULANCE**
 - 300 ground ambulances each zone (ALS & BLS)
 - Requested and deployed in Strike Teams
 - Includes vehicle maintenance and crews for 24/7 staffing
- **AIR AMBULANCE**
 - 25 air ambulances, helicopter and/or fixed wing
 - Support crews deploy with aircraft
- **PARA-TRANSIT**
 - Ability to Transport 3,500 individuals

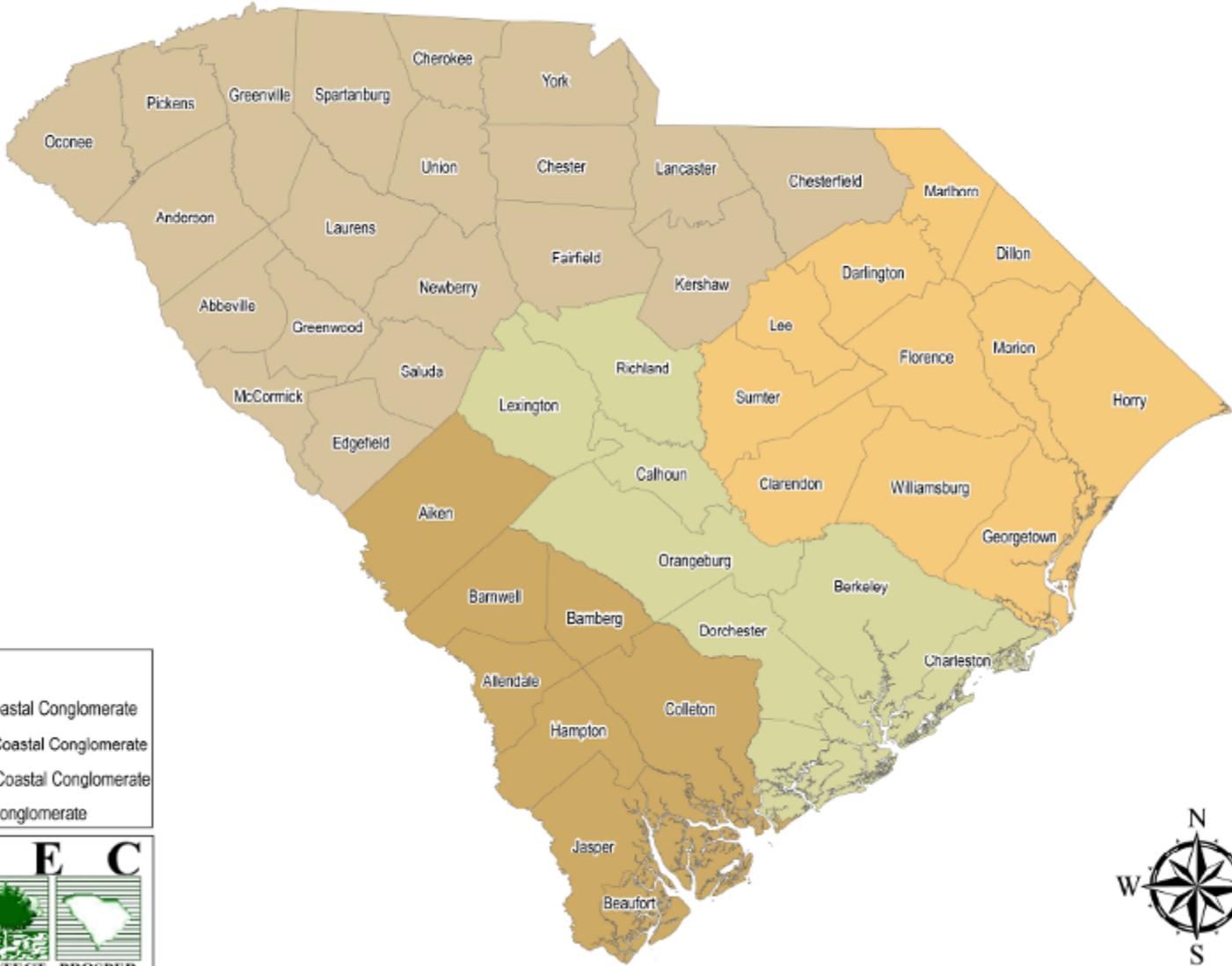
Regional Ambulance Contract Zones



Assets must arrive at designated location within 24 hours of contract activation



South Carolina Conglomerates



Legend

- Central Coastal Conglomerate
- Northern Coastal Conglomerate
- Southern Coastal Conglomerate
- Western Conglomerate

D H E C

PROMOTE PROTECT PROSPER





South Carolina Hurricane Planning Data

	Northern Cong. Counties N= 2	Central Cong Counties N= 3	Southern Cong. Counties N= 3
Total Hospitals	7	16	5
Average Daily Census	508	1,283	242
Total Staffed Beds	886	3,275	447
Skilled Nursing Homes & ALF beds	9 Nursing Homes; 968 beds ALF:1,022 beds	19 Nursing Homes 1,981 beds ALF: 2,343 beds	7 Nursing Homes 591 beds ALF:779 beds



Requirement	State Capacity	State Gap	Federal Augmenting Capacity
<p>Hospital/Nursing Home Evacuation:</p> <p>Ambulance “seats”: ALS: 228 BLS: 678</p> <p>Para-transit: Wheelchair: 830 Seats: 3,630</p> <p>Air ambulance: 215 patients/108 sorties</p>	<p><u>Capacity:</u></p> <p>Transport capacity</p> <ul style="list-style-type: none"> ● 520 ambulances (320 – ALS, 200 – BLS) ● Para-transit: <ul style="list-style-type: none"> – 750 lift equipped buses – >3,000 school buses – ~210 motor coaches ● 12 aircraft 	<p><u>Gap:</u></p> <p>The state does not control ambulance assets. Expect 50% participation rate from private companies.</p> <p>Para-transit seats would be provided from school buses which may also have other missions. Motor coach association is not on contract.</p> <p>State has identified need for support of NICU evacuation</p> <p>Air ambulances will be needed</p>	<p><u>Status:</u> FEMA ambulance contract will likely be activated</p> <p>May require up to 80 ambulances from FEMA contract with requirement for equipment to support NICU evacuations.</p> <p>Para-transit assets may be required due to conflicting mission requirements for school buses.</p> <p>10 air ambulances</p>
<p>Hospital Shelter-in-Place:</p> <p>Requirements unknown</p>	<p><u>Capacity:</u></p> <p>SIP for hospitals - No staffing augmentation available</p> <p>Medical staffing shortfalls of general pop. and SMN shelters are projected up to 400 nurses.</p>	<p><u>Gap:</u></p> <p>Medical staffing support requirements- 400 nurses to support sheltering at levels required by state plans. State is currently working to close this gap through alternate staffing plans or volunteer support</p>	<p><u>Status:</u></p> <p>State requests for healthcare personnel assets to fill the state gap listed may be requested depending upon assessment by state ESF 8 program.</p>



Requirement	State Capacity	State Gap	Federal Augmenting Capacity
<p><u>Medical Special Needs Population:</u></p> <p>Licensed healthcare facility population in coastal county is 6,655. Expect 6,000 to be impacted by CAT 5 storm. Approx 2,000 dialysis patients and 2,700 O2 dependent residents in evacuation conglomerates</p>	<p><u>Capacity</u></p> <p>Current state total SMNS capacity is approximately 920 beds in 48 shelters state-wide.</p>	<p><u>Gap:</u></p> <p>No GAP reported. The state feels that current SMNS capacity could meet requirements based on historical utilization of shelters.</p>	<p><u>Status:</u> No Gap</p> <p>Preliminary FMS site visits conducted at: 6 locations:</p> <ul style="list-style-type: none"> Orangesburg (250 beds) Charleston (up to 450 beds) Myrtle Beach (up to 750 beds) Florence (up to 400 beds).



- Medical staffing shortfalls for general population shelters will be an issue for catastrophic hurricane
- State ESF 8 expects local, county, and private business planning to be active and sufficient for hurricane response. This stance informs an historical perspective indicating that local planning and response activities are sufficient.
- State ESF 8 has experienced staff to support response coordination.
- The state has developed and equipped mobile medical and mortuary capabilities and teams



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Overview of Real Life Events and How Data Collection Paid Off



Real Life Events

Hospital Facility Evacuations During Gustav

Hurricane Gustav	Pre Storm	Post Storm	Total
Full Evacuation	38	7	45
Partial Evacuation	25	3	28
Total	63	10	73



Real Life Events

Nursing Home Evacuations During Gustav

Hurricane Gustav	Pre Storm	Post Storm	Total
Full Evacuation	94	2	96
Partial Evacuation	0	0	0
Total	94	2	96



- Gustav was worst case scenario. Actual event confirmed majority of previous GAP data.
- 2009 –refining and planning focus
 - FMS bed #s increased 1000 to **1250**
 - Ambulance, Para transit, FEMA contract improved utilization
 - **DMAT support increases: Airfields, FMSs**
 - Wraparound services at FMS: State vs Fed (except medical & pharm)
 - Feds to provide care at all FMS' H-54
 - Feds to provide support at 2 airfields & Train H-48
 - **Require 5-bed bariatric cache for each deployed FMS**



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How this information and data better positions us as a Nation prepared



Operational by:	State 1	State 2	State 3
H-96 to H-84	RECs = Region +10 IRCT A RIST	RECs = Region +10 IRCT A	RECs = Region +15 IRCT A RIST
H-72	<ul style="list-style-type: none"> ‣300 Ambulances ‣3500 Paratransit ‣2 DMATs (at airheads) ‣Caches 	<ul style="list-style-type: none"> ‣300 Ambulances ‣25 Air Ambulances ‣2 DMATs (at airheads) ‣Caches 	<ul style="list-style-type: none"> ‣150 Ambulances ‣2000 Paratransit ‣4 DMATs (at airheads) ‣Caches ‣VA providers
H-64 to H-60	<ul style="list-style-type: none"> ‣Up to 5 FMS ‣10 DMATs 	<ul style="list-style-type: none"> ‣6 FMS ‣12 DMATs 	<ul style="list-style-type: none"> ‣7 FMS ‣14 DMATs
H-24	‣3 DMATs staged for post storm	‣3 DMATs staged for post storm	‣5 DMATs Staged



QUESTIONS?????

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