

VIGILANT GUARD

**Emergency Training Exercise
September 14-18 2009**





Vigilant Guard Exercise (VGX)

General Information

- **Date:** 15-17 September 2009
- **Location:** Helena Regional Airport, National Guard Aviation Center, Helena, MT
- **Audience:** Staff-Level Personnel from National Guard, Local, State and Federal Civilian Governments, and subject matter experts. All organizations participating in the Command Post Exercise / Field Training Exercise CPX / FTX are encouraged to attend
- **Objective:** To exercise all participating personnel in the application of emergency operations related to a natural disaster

All organizations participating in the CPX / FTX are encouraged to send representatives to the VGX.

Unclassified



Purpose

Vigilant Guard is a Homeland Security/Homeland Defense FEMA Regional exercise program sponsored by NORAD-NORTHCOM and the National Guard Bureau J7 Office.

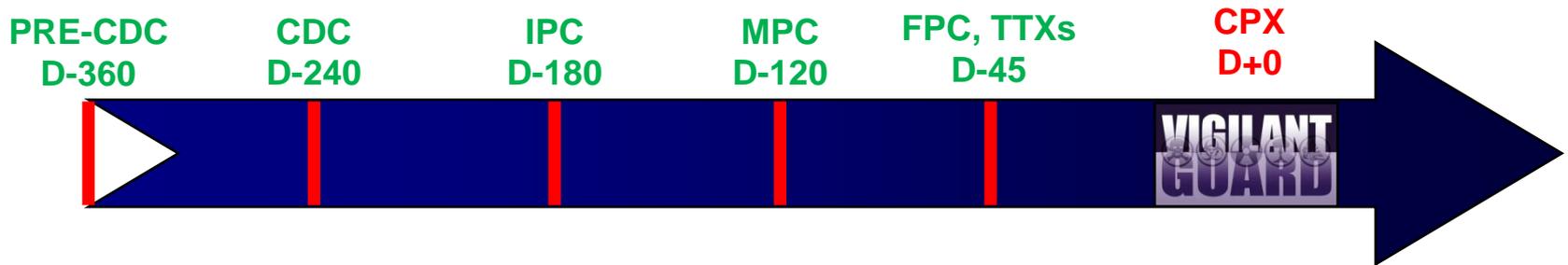
The program provides an opportunity for State National Guard Joint Force Headquarters to improve command and control and operational relationships with internal, regional civilian and military partners.





Exercise Status

- Vigilant Guard CPX/ FTX, **15-17 Sep 09**



- Participation at City, County, State, NG, Private Sector Levels
- 9 Field Training Exercise Sites including Civilian, Military, and Private Sector Participants
- Receiving supplies and rubble pile debris
- Identifying Site layouts and Participating personnel,
- Finalizing agendas and timelines



VGX Schedule

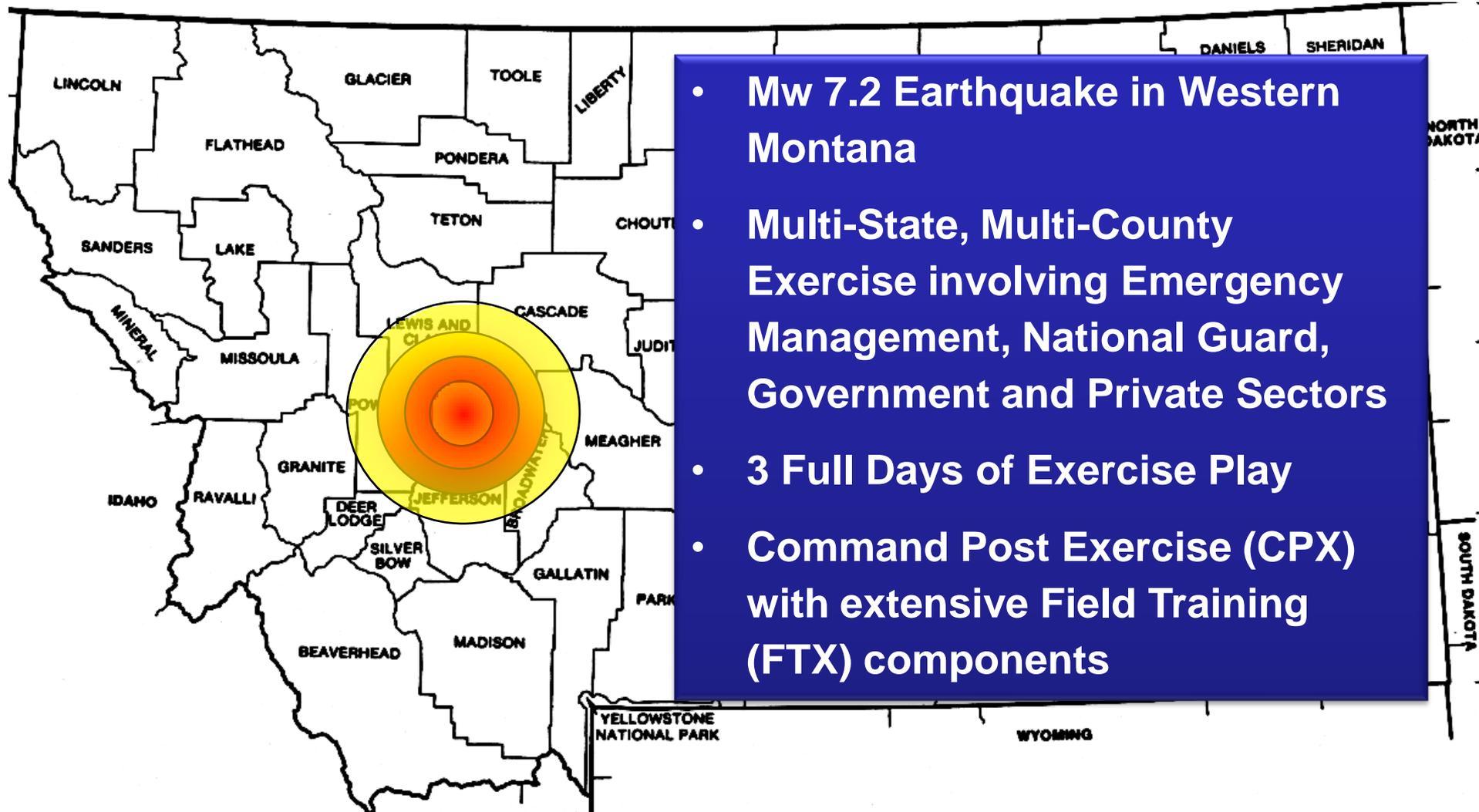
Date	Event	Time
12-14 Sep	Troop movement to Ft Harrison	ongoing
15 -17 Sep	Exercise is ongoing. Civilian Troop movement throughout Lewis and Clark county	0700-2300
18 Sep	All Exercises should be complete	0800-1700
19-20 Sep	All participants will be dispersed	0800-1500



- **JRSOI will begin 14 Sept**
- **All forces will go through JRSOI, including MT Units**
 - **Abbreviated JRSOI for CST, QRF**
- **Reverse JRSOI will take place 17-18 Sept**
- **MTNG has indicated that they will do a JRSOI Tabletop / Rock Drill**
- **POC: LTC Robinson**



VG Montana Exercise Vision

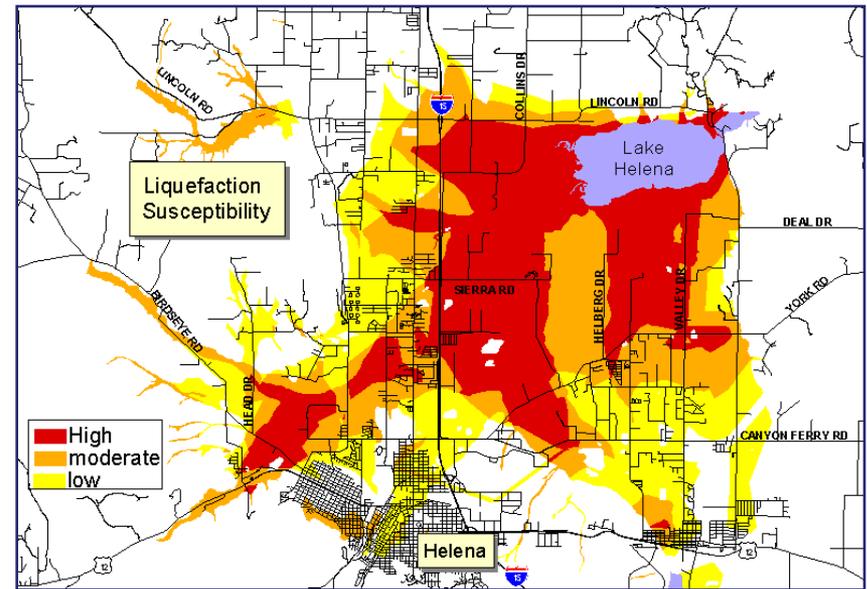


- Mw 7.2 Earthquake in Western Montana
- Multi-State, Multi-County Exercise involving Emergency Management, National Guard, Government and Private Sectors
- 3 Full Days of Exercise Play
- Command Post Exercise (CPX) with extensive Field Training (FTX) components



Scenario

- The Scenario is simulating the strength an earthquake 7.2 Mw
- This is to accommodate the large number of agencies and states participating in the exercise
- Expected Frequencies:
 - 5+ every 32 years
 - 6+ every 190 years
 - 7+ every 1,112 years





Exercise Objectives

- **Demonstrate the information flow and interagency coordination between Non-Governmental Organizations, local, state, and federal offices**
- **Demonstrate Continuity of Operations at the local, state and federal level**
- **Demonstrate integration and interoperability of private, local, state and federal resources**
- **Utilize National Incident Management System (NIMS)**
- **Demonstrate ability to respond to a natural or manmade disaster in order to protect the citizens of Montana**
- **Maintain situational awareness through effective voice and electronic communication systems**



Montana NG Objectives

- **Exercise Joint Force Headquarters-Montana (JFHQ-MT) Multi-hazard response plan**
- **Exercise JFHQ-MT COOP**
- **Exercise JFHQ-MT Earthquake Operations Plan (OPLAN)**
- **Deploy NG forces in support of civil authorities. I.e. Joint Task Force - Chemical, Biological, Radiation, Nuclear and Environmental (JTF-CBRNE) Enhanced Response Force Package (CERFP), NG Quick Reaction Force (QRF), Command Support Teams (CST) and LNOs**
- **Establish and operate Joint Reception, Staging, Onward Movement and Integration (JRSOI) center**
- **Establish, test and use communication links with participating agencies**
- **Conduct regional coordination with participating organizations**
- **Staff and execute a Joint Visitor's Bureau / Joint Information Center (JVB/JIC)**



Overarching Civilian Objectives

- **Communications**
- **Emergency Operations Center (EOC) Management**
- **On-Site Incident Management**
- **Emergency Triage and Pre-Hospital Treatment**
- **Critical Resource Logistics and Distribution**
- **Emergency Public Information and Warning**
- **Urban Search and Rescue (Land Based)**





Overarching Civilian Objectives

- **Communications:** Demonstrate the ability of military and civilian agencies and organizations to effectively provide and receive interoperable voice and electronic communications in response to a catastrophic earthquake incident.
- **Emergency Operations Center (EOC) Management:** Demonstrate the ability of participating EOCs/MAC-G to follow existing written procedures for operational management in response to a catastrophic earthquake incident, including EOC activation, notification, and staffing; as well as EOC management, direction, control, and coordination of response and recovery activities in accordance with emergency management plans.
- **On-Site Incident Management:** Demonstrate the ability of MT civilian authorities to effectively integrate and collaborate with MT National Guard and other federal agencies to successfully direct and control incident management activities, including establishment of full on-site incident command and development of an incident action plan (IAP) in accordance with the Incident Command System (ICS) as outlined by the National Incident Management System (NIMS).



Overarching Civilian Objectives

- **Emergency Triage and Pre-Hospital Treatment:** Test the ability to appropriately dispatch emergency medical services (EMS) resources; to provide pre-hospital triage and treatment of patients, including transport as well as medical care en-route to an appropriate receiving facility; to track patients to a participating hospital, as needed, in a mass-casualty incident; and communication between EMS assets and on-site incident command; integrating military medical assets with hospitals.
- **Critical Resource Logistics and Distribution:** Demonstrate the ability of participating agencies to coordinate with each other in order to identify, mobilize, dispatch, and accurately track and record critical resources during a catastrophic earthquake incident.



Overarching Civilian Objectives

- **Emergency Public Information and Warning:** Demonstrate the timely establishment of Joint Information Centers (JICs) and Public Information Centers (PICs) and the ability of its personnel to coordinate with external media organizations to combine their operations, information, and resources in order to provide the public with the most accurate, consistent, and timely information possible.
- **Urban Search and Rescue (Land Based):** Demonstrate the ability of Urban Search and Rescue (SAR) teams to coordinate and conduct response efforts in the event of a catastrophic earthquake incident, including searching affected areas for victims and locating, accessing, medically stabilizing, and extricating victims trapped in damaged or collapsed structures.



State of Montana Participants

State Agencies:

- **Department of Administration (DOA)**
- **Department of Environmental Quality (DEQ)**
- **Disaster and Emergency Services (DES)**
- **Department of Transportation (DOT)**
- **Department of Public Health and Human Services (DPH&HS)**
- **Department of National Resources and Conservation (DNRC)**





Lewis and Clark County Participants

Local and County Agencies:

- Sheriff's Offices
- Public Works
- Rural Fire Departments
- Health Departments
- Library
- Community Emergency Response Team (CERT)
- Lewis and Clark County
- Broadwater County
- Jefferson County





Local Participants

Local Agencies:

- Helena Fire Department
- Helena Police Department
- Helena Public Works
- Red Cross
- Montana Rail Link
- Qwest
- CONOCO/Phillips
- Helena School District
- Helena Airport
- St Peter's Hospital
- VA Fire/Administration



**American
Red Cross**



St. Peter's Hospital

ConocoPhillips





Federal / Int'l Participants

Federal / International Agencies:

- FEMA Region VIII
- US Army Reserves (USAR)
- US Naval Reserves (USNR)
- Defense Coordinating Office (DCO)
- USNORTHCOM
- Kyrgyzstan
- Georgia



FEMA





Other Participants

National Guard Participants

National Guard	JFHQ	JOC	JTF	NGRF	CST	CERF	LNO	Local/ State EOC	DCC	Other
Montana	Y	Y	Y	Y	Y		Y	Y		
Wyoming	Y	Y	Y		Y		Y			JISCC
S. Dakota	Y	Y					Y			JISCC
N. Dakota					Y		Y		Y	
Idaho		Y					Y			
Utah					Y		Y			
Colorado	Y	Y				Y	Y			JISCC
Nevada		Y					Y			
California							Y		Y	
NGB		T								JET



Other Federal Participants

Federal Participation

US Army Reserve, US Naval Reserve, USCG,
NORTHCOM

- Level of play
 - May or may not participate?



Unclassified



Montana NG Units

- **MT CST**
- **QRF**
- **JFHQ**
- **JTF**
- **JRSOI**
- **120th Med Grp**
- **120th Mission Spt Grp**
- **120th Logistics**
- **120th Fire**
- **120th Services**
- **120th Communications**
- **120th Public Affairs**
- **120th Security**
- **219th RH**
- **208th RTI**
- **67th Sig Co**
- **484th MP**
- **1049th FFTG**
- **E/145th Forward Spt**
- **1-189th GSAB**
- **Design Team**

Helena

- Primary CPX/FTX Site
- Exercise Control Cell

Butte

- St. James Hospital
- MEDEVAC (Sim)
- Mass Casualty

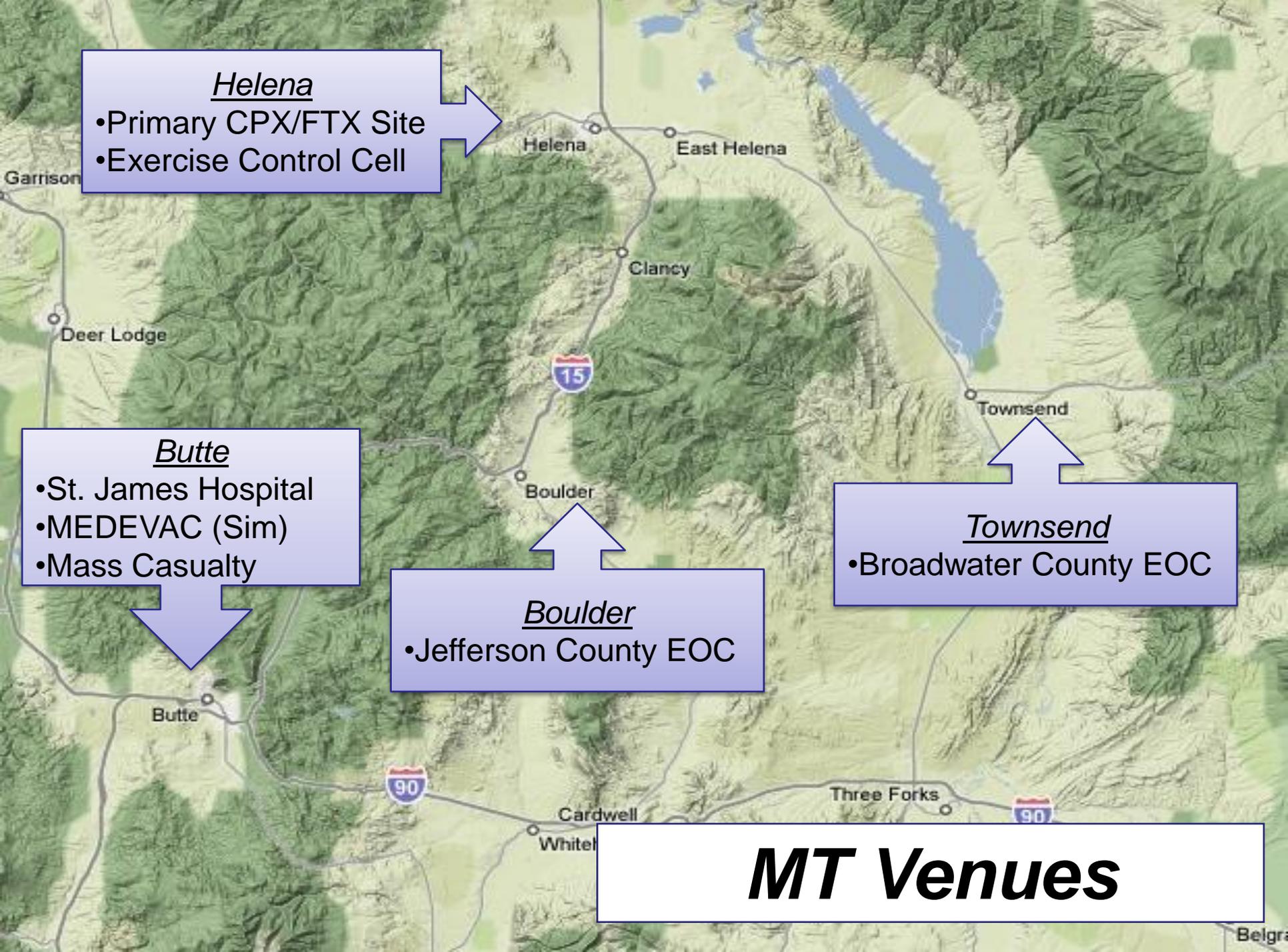
Boulder

- Jefferson County EOC

Townsend

- Broadwater County EOC

MT Venues



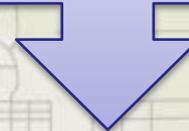
Pipeline Rupture

- HAZMAT Incident
- Spill Containment
- CST Involvement



East Helena School District

- Radley Elementary
- Eastgate School
- East Valley Middle School



Train Derailment

- Exact Site TBD
- HAZMAT Incident
- CST Involvement



East Helena Venues

Fort Harrison

- Montana DES EOC
- JFHQ-MT, JOC
- JTF-MT
- JRSOI
- Exercise Control Cell
- Simulation Cell (SIMCELL)

Helena Airport

- Primary FTX Site
- Rubble Pile
- Burned Building
- CERFP
- Security Venues

VA Hospital

- Triage
- EMEDS

Carroll College

- Collapsed Building
- S&R
- Directors Tabletop

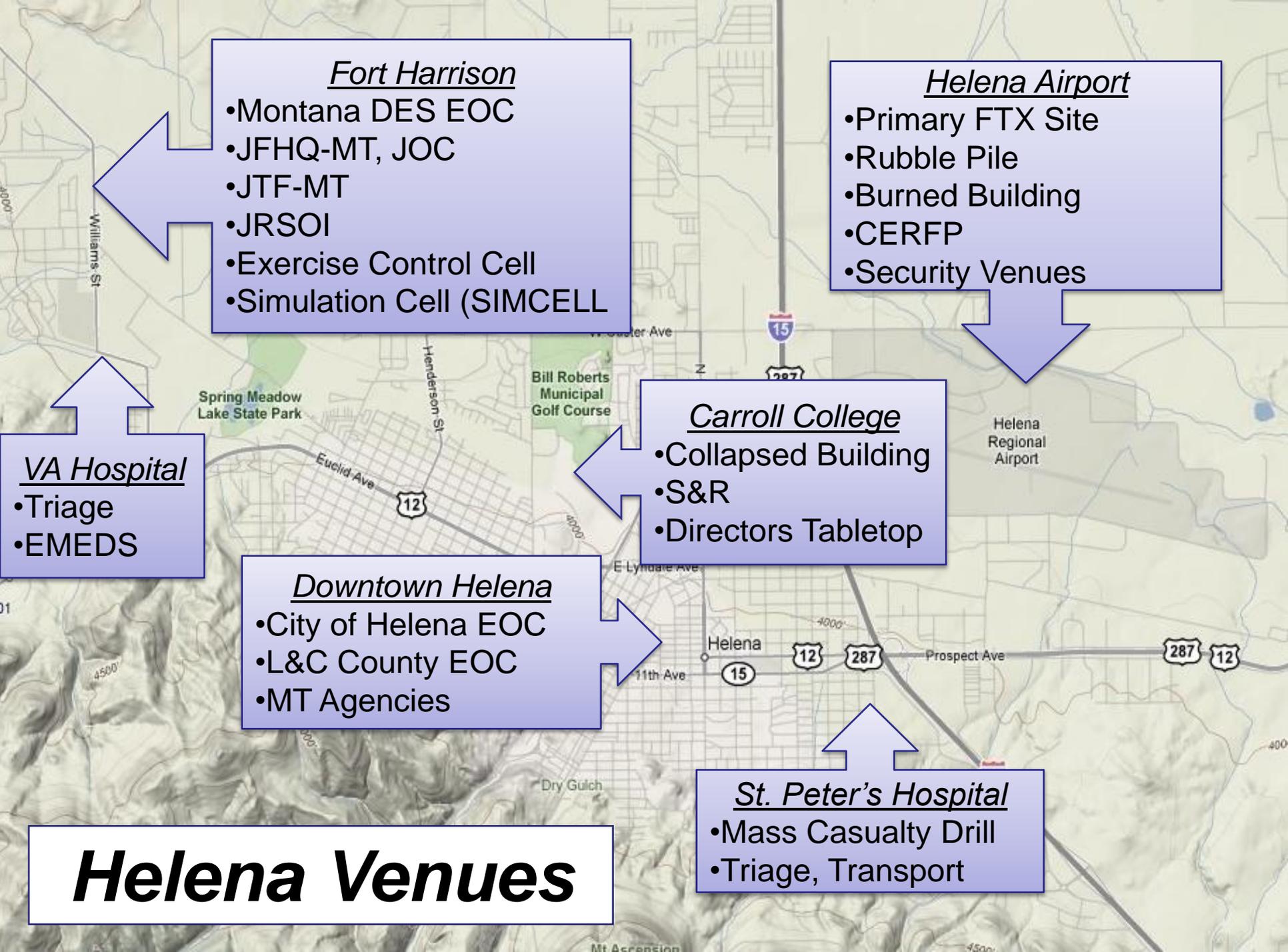
Downtown Helena

- City of Helena EOC
- L&C County EOC
- MT Agencies

St. Peter's Hospital

- Mass Casualty Drill
- Triage, Transport

Helena Venues





Exercise Scenario Overview

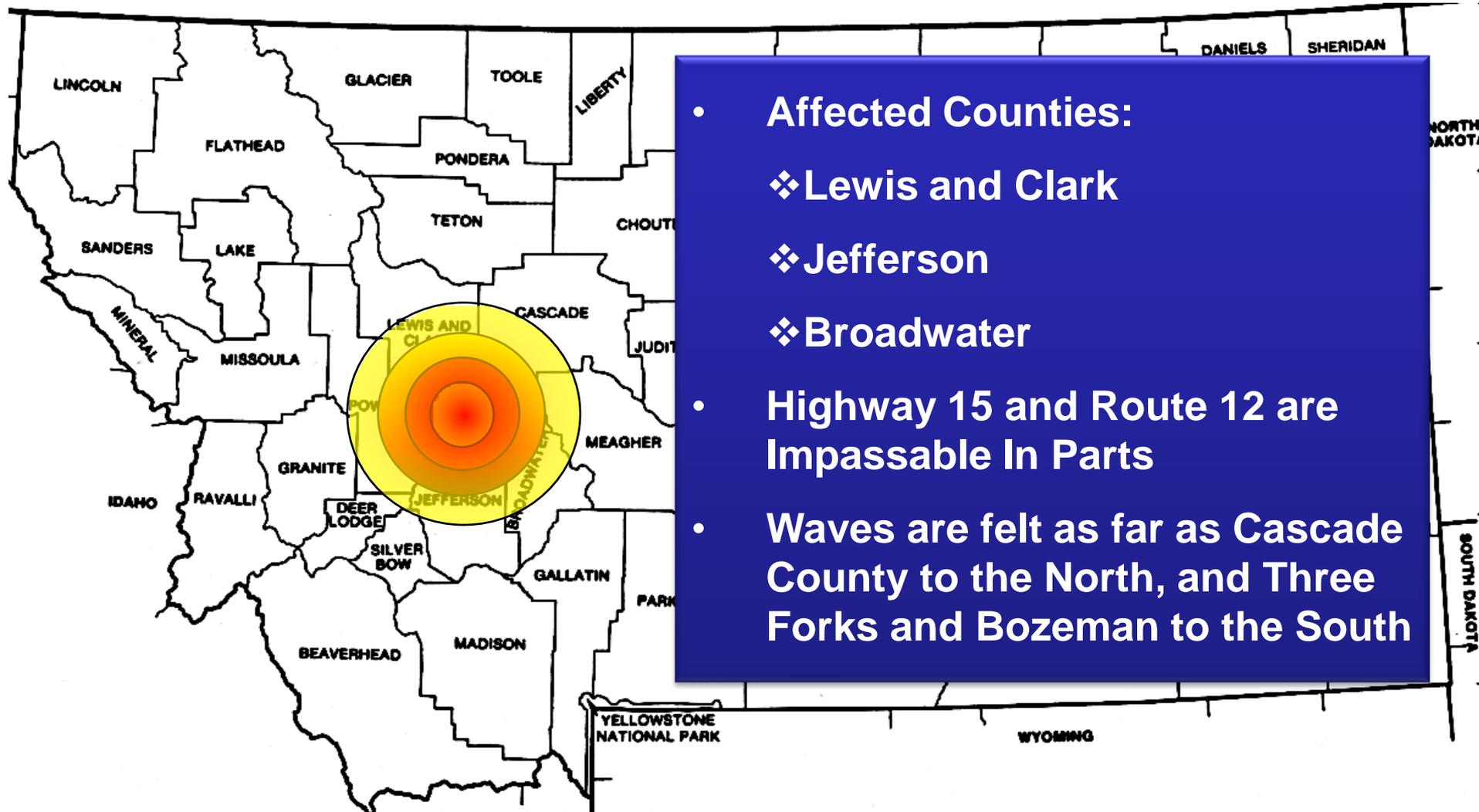
Scenario Overview

Initial damage estimates from a **Mw 7.2 earthquake** Northeast of Helena suggest loss of life and destruction of property in Lewis and Clark, Jefferson, and Broadwater Counties. Critical infrastructure including roads, rails, power grids, water, sewage, and gas lines have all been significantly disrupted. Hazardous material incidents are also being reported. Hundreds of victims require medical treatment.





Exercise Scenario Overview



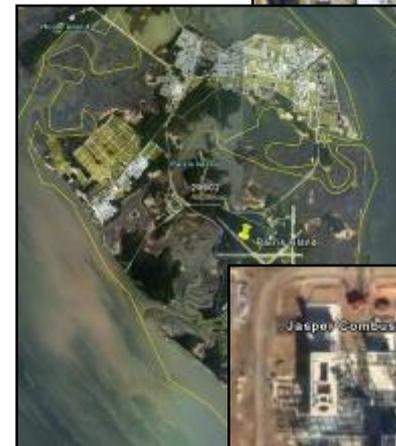
- **Affected Counties:**
 - ❖ Lewis and Clark
 - ❖ Jefferson
 - ❖ Broadwater
- Highway 15 and Route 12 are Impassable In Parts
- Waves are felt as far as Cascade County to the North, and Three Forks and Bozeman to the South



Earthquake Scenario Overview

Critical Infrastructure Damaged

- Roads
- Bridges
- Helena Government Buildings
- Military Installations
- Water Plants
- Generating Plants
- Industrial Complexes
- Correctional Institutions
- Numerous hospitals, schools, businesses
- Dams
- Utility Breaks, Power Outages





Response Challenges

- **Transportation Infrastructure Degraded:**
 - Destroyed, damaged or blocked
- **Medical Facilities:**
 - Damaged or isolated with staff, power and water shortages; trauma facilities overwhelmed
 - St. Peter's Hospital damaged
- **Medical Requirements:**
 - 2000 need medical aid, up to 400 require hospitalization
 - Approximately 60 life threatening injuries and over 100 deaths
- **Collapsed Buildings:**
 - Thousands trapped
 - Area fires and flooding complicate response
- **Debris:**
 - Estimated .25 million tons of debris
 - Abandoned/damaged vehicles on primary and secondary roads.





Response Challenges

- **Temporary Shelters & Emergency Relief:**
 - Over 3000 homes displaced; 1000 require temporary sheltering
- **Flooding:**
 - Broken water mains flood streets causing evacuations; Dams sustain damage and threaten additional flooding
- **Utilities:**
 - Communications, power, water, and sanitation services are unavailable in large service areas.
 - 10K without water and 16K without electricity
 - Ruptured gas lines lead to multiple fires
- **HAZMAT Events:**
 - HAZMAT challenges on roads, rail, waterways and at damaged businesses.
 - Montana Rail Link reports train derailment; ConocoPhillips reports pipeline rupture, oil spill.
- **Relief Supply Management:**
 - Food and water inventories depleted. Re-supply hampered by transportation infrastructure damage





Emerging Scenario Details

- **Building Collapse at Carroll College**
- **Train Derails**
- **Fires at multiple sites (One for FTX, plus various for notional forces)**
- **Building Collapses (Rubble Pile)**
- **Deaths and Injuries exceeding medical care capabilities**
- **HAZMAT Incidents**
- **Williams Street Bridge Closure**





Scenario: HAZUS Estimates

Estimated Building Damage by Occupancy

	None	Moderate	Extensive	Complete
Commercial	76	39	26	19
Government	19	14	8	4
Industrial	3	1	1	1
Multi- Residential	1,584	1,157	662	474
SF Residential	10,016	2504	601	501
TOTAL		3715	1298	999

Estimated Utility Pipeline Damage

	Leaks	Breaks
Potable Water	262	193
Waste Water	172	132
Natural Gas	137	85



Scenario: Infrastructure Damage

Estimated Damage to Transportation

	Moderate	Complete	>50% Function/Day 1
Highways	3*	0	2
Bridges	34	9	118 of 161

Estimated Fire Ignitions and Debris Generated

Post EQ Fires	47 Ignitions	1.26 Sq. Mi. Burned of Helena 14 sq/mi total—9%	821 Displaced
Debris Generated	0.45 Million tons	18,000 Truck Loads @ 25 tons/truck	

Estimated Households Without Service

	Day 1	Day 3	Day 30	Day 90
No Potable Water	9584	6846	2738	0
No Electric Power	16430	5477	0	0



Scenario: Care and Shelter Demand

Estimated Shelter Demand

	Total	Estimated Displaced Households	Estimated Persons Seeking Shelter
Households	22,850	3,254	
Population	55,716		963

Estimated Casualties

	Injured	Requiring Hospitalization	Critical Care Hospitalization	Fatalities
2:00 PM	2191	394	61	110



Scenario: Estimated Financial Impact

Income Losses	94.02
Building Damage	685.95
Total Building Related Loss	939.97
TOTAL ECONOMIC LOSS	1036.71

(Millions of Dollars)



FTX Venue Details

Venue: St. Peter's Hospital

Location: 2475 E Broadway St, Helena, MT

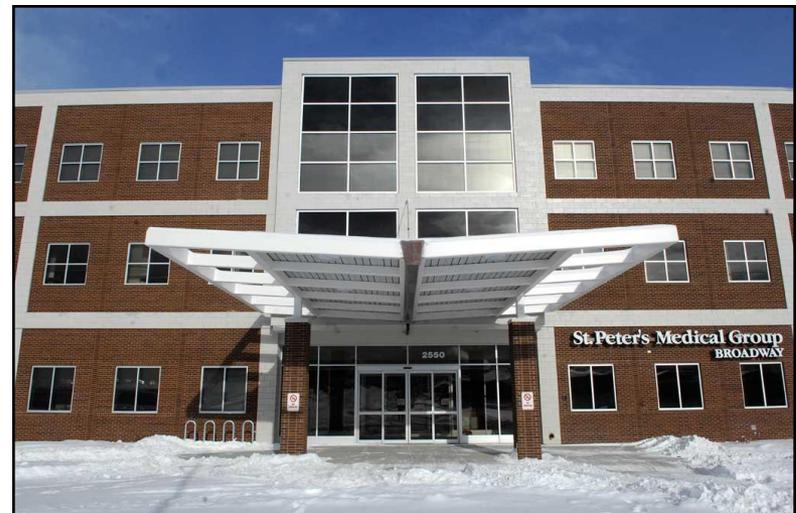
Exercise Dates: **TBD**

Description: Resulting from the earthquake, St. Peter's begins to experience excessive patient load. 4-6 hours into the event, 80-100 victims overwhelm hospital staff, requiring the hospital to activate surge capacity plans, control building access, send patients to other hospitals, and request additional medical assets from the county.

Venue Activities:

- ❖ Internal TTX
- ❖ Secure facility and control access

POC: Don Wells





FTX Venue Details

Venue: St. James Hospital

Location: 400 S Clark St, Butte, MT

Exercise Dates: **TBD**

Description: St. James receives overflow patients from St. Peter's hospital. Other scenario details TBD.

Venue Activities:

- ❖ Internal TTX / Drills
- ❖ Simulated MEDEVAC from St. Peter's Hospital
- ❖ Other Activities TBD

POC: Robin Foley

Robin.foley@sjh-mt.org





FTX Venue Details

Venue: Carroll College

Location: 1601 N. Benton Ave, Helena, MT

Exercise Dates: **TBD**

Description: A building collapses on the campus of Carroll College, resulting in a mass casualty event. 200-300 injuries occur, with some deaths.

Venue Activities:

- ❖ Civilian Mass Casualty Drill
- ❖ Internal Leadership TTX
- ❖ Interoperability Challenges
- ❖ Limited Law Enforcement Scenarios for securing the scene



POC: Butch Biskupi 406-594-4570

bbiskupi@carroll.edu



FTX Venue Details

Venue: Veterans Administration (VA) Hospital

Location: 1892 Williams Street, Fort Harrison, MT

Exercise Dates: **TBD**

Description: Civilian medical care facilities such as St. Peter's hospital are overwhelmed with earthquake victims. The VA hospital begins treatment of overflow victims, and requested military medical assets set up nearby.

Venue Activities:

- ❖ VA Activities **TBD**
- ❖ EMEDS (KS) equipment is set up on site
- ❖ MT ANG and MT ARNG medical staff (40 PAX) fall in on EMEDS equipment

POC: Carl Crouse
carl.crouse@va.gov





FTX Venue Details

Venue: Rail Site

Location: TBD by Montana Rail Link; Likely East Helena

Exercise Dates: **TBD**

Description: A train carrying hazardous materials is derailed during the earthquake, causing a serious chemical spill. Assistance is required to identify and contain the HAZMAT situation and to treat affected rail workers.

Venue Activities:

- ❖ HAZMAT / First Responders
- ❖ CST
- ❖ CERFP Medical and Extraction

POC: COL Cohen (CO CERFP)

Mike Guilding (MT Rail Link)

406-447-2303





FTX Venue Details

Venue: Rubble Pile

Location: Helena Airport, 2850 Skyway Dr, Helena, MT

Exercise Dates: 15-17 September

Description: A rubble pile will be constructed on site, providing a venue for multiple units to drill on their relevant disciplines using various scenarios over the course of the exercise. Some scenarios will involve HAZMATs so responders can train on operating in a contaminated environment.

Venue Activities:

- ❖ HAZMAT / First Responders / Rural Fire
- ❖ CSTs
- ❖ Medical (EMS and CERFP)
- ❖ USAR / Search and Extraction
- ❖ Security

POC: LtCol Sencindiver (NGB)





FTX Venue Details

Venue: Burned Building Site

Location: Helena Airport, 2850 Skyway Dr, Helena, MT

Exercise Dates: **15-17 September**

Description: NG and civilian firefighters will work side by side to extinguish a fire in this training aid. Rural Fire departments will be actively involved.

Venue Activities:

- ❖ Fire Response
- ❖ Integration of National Guard into Incident Command
- ❖ Burned building training



POC: Bob Drake



FTX Venue Details

Venue: Security Venues

Location: Helena Airport, 2850 Skyway Dr, Helena, MT plus Various, TBD

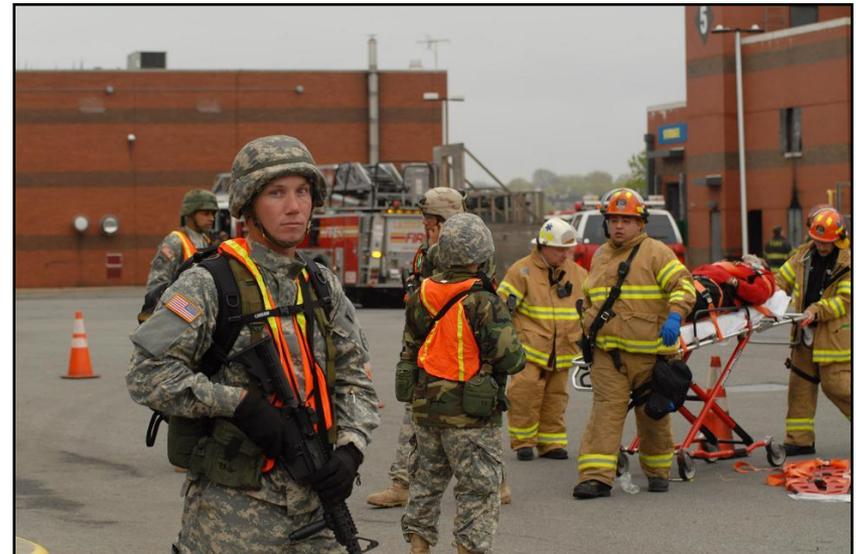
Exercise Dates: 15-17 Sep 2009

Description: A rubble pile will be constructed on site, providing a venue for multiple units to drill on their relevant disciplines using various scenarios over the course of the exercise. Some scenarios will involve HAZMATs so responders can train on operating in a contaminated environment.

Venue Activities:

- ❖ HAZMAT / First Responders / Rural Fire
- ❖ CSTs
- ❖ Medical (EMS and CERFP)
- ❖ USAR / Search and Extraction
- ❖ Security

POC: Sherriff Leo Dutton





FTX Venue Details

Venue: Pipeline Rupture

Location: Prickly Pear Creek at Canyon Ferry Rd

Exercise Dates: 15-17 Sep 2009

Description: A gas pipeline has been ruptured. CONOCO/Phillips responds and requests assistance for assessment and HAZMAT containment. Scenario includes 157,000 gallons of diesel fuel.

Venue Activities:

- ❖ Hazard / Spill Assessment
- ❖ Oil/HAZMAT Containment and Mitigation

POC: Clint Looby





FTX Venue Details

Venue: School Drills

Location: Radley School, 226 Clinton St, East Helena; Eastgate School and East Valley Middle School, 4010 Gradestake, East Helena

Exercise Dates: 15-17 Sep 2009

Description: Parents will be asked to retrieve students following an earthquake drill.

Venue Activities:

- ❖ Parental Notification
- ❖ Student Accountability
- ❖ Limited Law Enforcement Support
- ❖ ****NO National Guard Used****

**POC: School Principle
/superintendant**





FTX Venue Details

Venue: JRSOI

Location: Fort Harrison, MT

Exercise Dates: 14-18 September

Description: MT NG will receive incoming forces from participating states' National Guards. For exercise purposes, JRSOI will be held at Fort Harrison, though in a real emergency the JRSOI site would be outside of the affected area.

Venue Activities:

- ❖ Inbriefs
- ❖ JAG / PAO Briefs
- ❖ Mission Assignments
- ❖ Force Tracking
- ❖ Reverse JRSOI (17-18)

POC:J4 COL Robinson





FTX Venue Details

Venue: Additional CST Sites

Location: Various

Exercise Dates: 15-17 Sep 2009

Description: CST Sites will be created as necessary to meet all participating states' CST training objectives.

Venue Activities:

- ❖ HAZMAT / First Responders / Rural Fire
- ❖ CST Entry, Characterization, Decon
- ❖ Security

POC: LtCol Sencindiver (NGB)

Carlos Brown, Ray Ippolito (NGB)

