



# **Regional Evacuation Planning**

**National Association of Regional Councils  
43rd Annual Conference and Exhibition  
Transportation and Evacuation Planning Workshop  
Denver, Colorado**

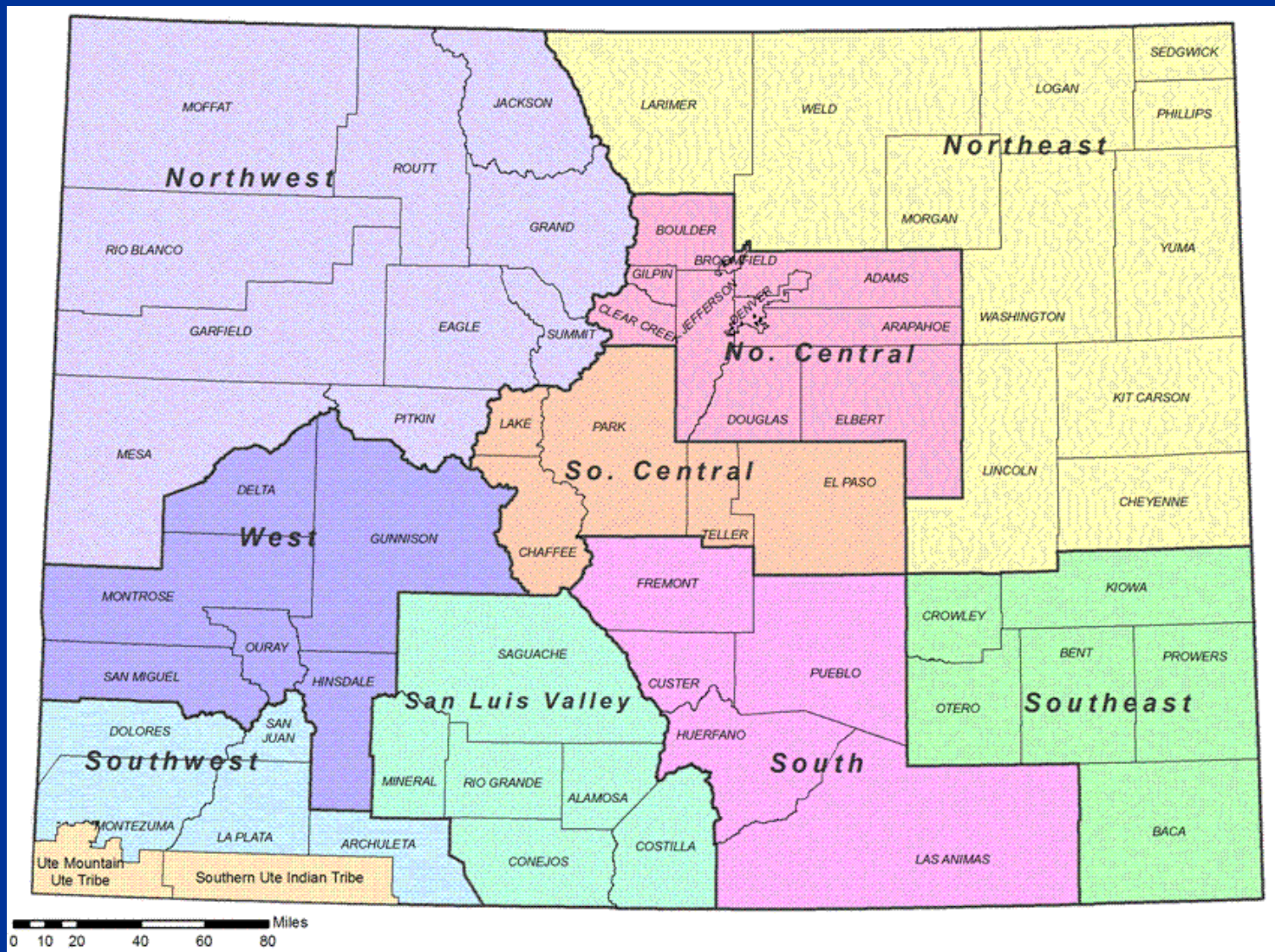
**June 1, 2009**

**Scott Kellar  
Homeland Security Coordinator  
North Central Region**

# **All-Hazard Emergency Management Regions**

- **Region's established by Governor Bill Owens in 2003**
- **Important step in planning and building multi-jurisdictional capabilities for historically independent & autonomous entities**
- **Return on investment increased**
  - **Common procedures and working relationships established through training and exercises**
  - **Limited resources highlight the need for risk-based assessments**
  - **Redundancy of equipment and effort eliminated**

# Colorado All-Hazard Emergency Management Regions



# North Central Region

- **Region is a quasi-governmental entity consisting of the 10 counties surrounding the Denver metro area**
- **Board of Directors make-up is 2 members per county, one member from each RETAC and MMRS**
- **Members represent Fire, Law Enforcement, Medical, EMS, Emergency Management & other fields**
- **Combined metro, mountain and rural make-up creates unique challenges for the NCR**

# North Central Region

Rocky Mountain  
National Park



Eisenhower  
Tunnel



DIA



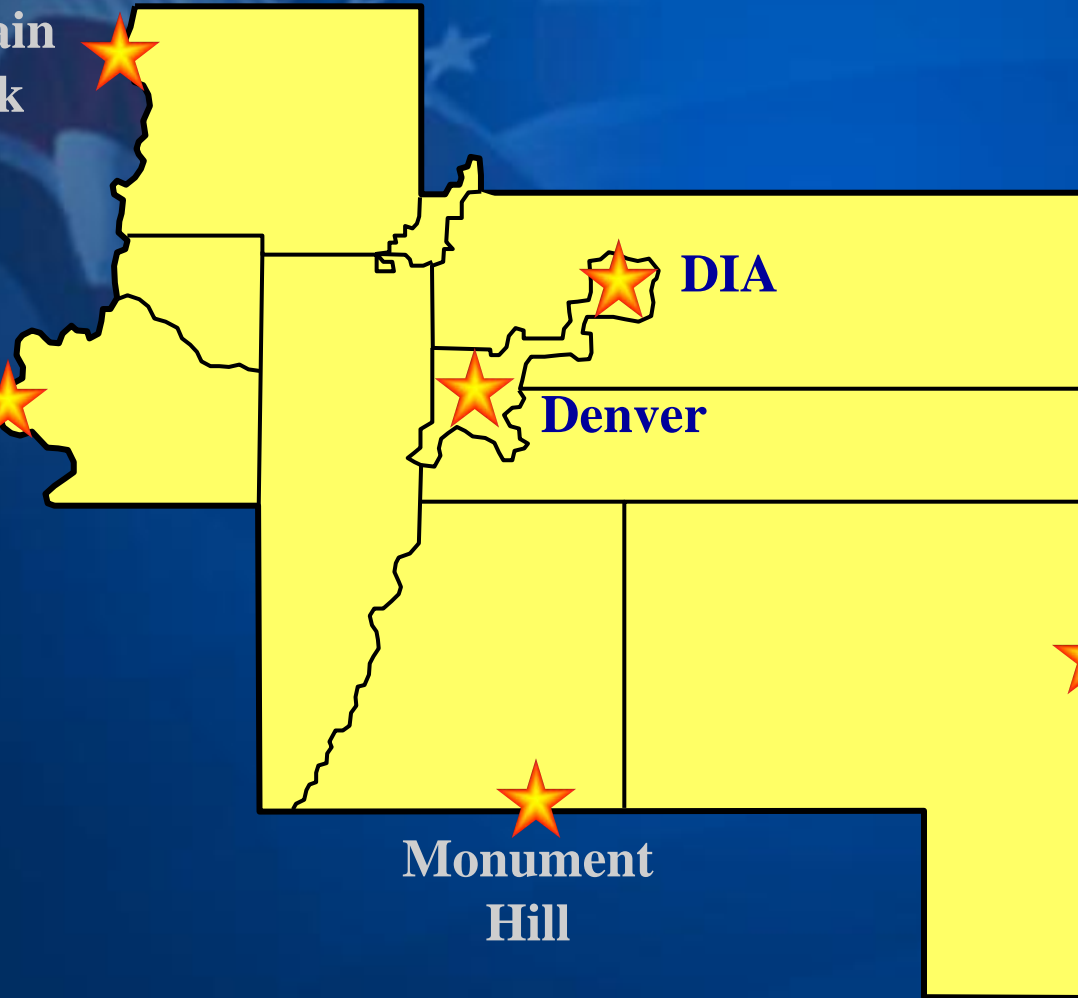
Denver



Limon



Monument  
Hill



The background of the slide is a dark blue gradient. In the upper left quadrant, there is a faint, semi-transparent image of the United States flag, showing the stars and stripes. The text is centered and rendered in a bold, yellow, serif font with a black drop shadow.

**Regional**

**Evacuation Planning**

# Evacuation Planning Process

- Initiated through a broad based Kick Off conference where the 'Plan to Create a Plan' was presented
- National Direction and Priority Planning Scenarios were reviewed
- Planning Requirements identified:
  - Public Warning and Notification
  - Evacuation Planning
  - Mass Sheltering Planning (w/focus on at-risk populations)
  - Logistics and Resource Management

# **Citizen Protection: Evacuation and/or In-Place Protection**

**The capability to plan for and immediately execute the safe and effective sheltering-in-place of an at risk population, and/or the organized and managed evacuation of the at-risk population to areas of safe refuge in response to a potential or actual dangerous environment. In addition, this capability involves the safe reentry of the population.**

# Capability Requirements

- **Evacuation/shelter plan developed**
  - **Authority and decision making processes addressed**
  - **Identification of evacuation routes, traffic management and control measures**
  - **Support requirements and resources identified**
    - **Logistics (food, fuel, water, etc)**
    - **Transport requirements**
    - **Medical support**
  - **Re-entry planning**

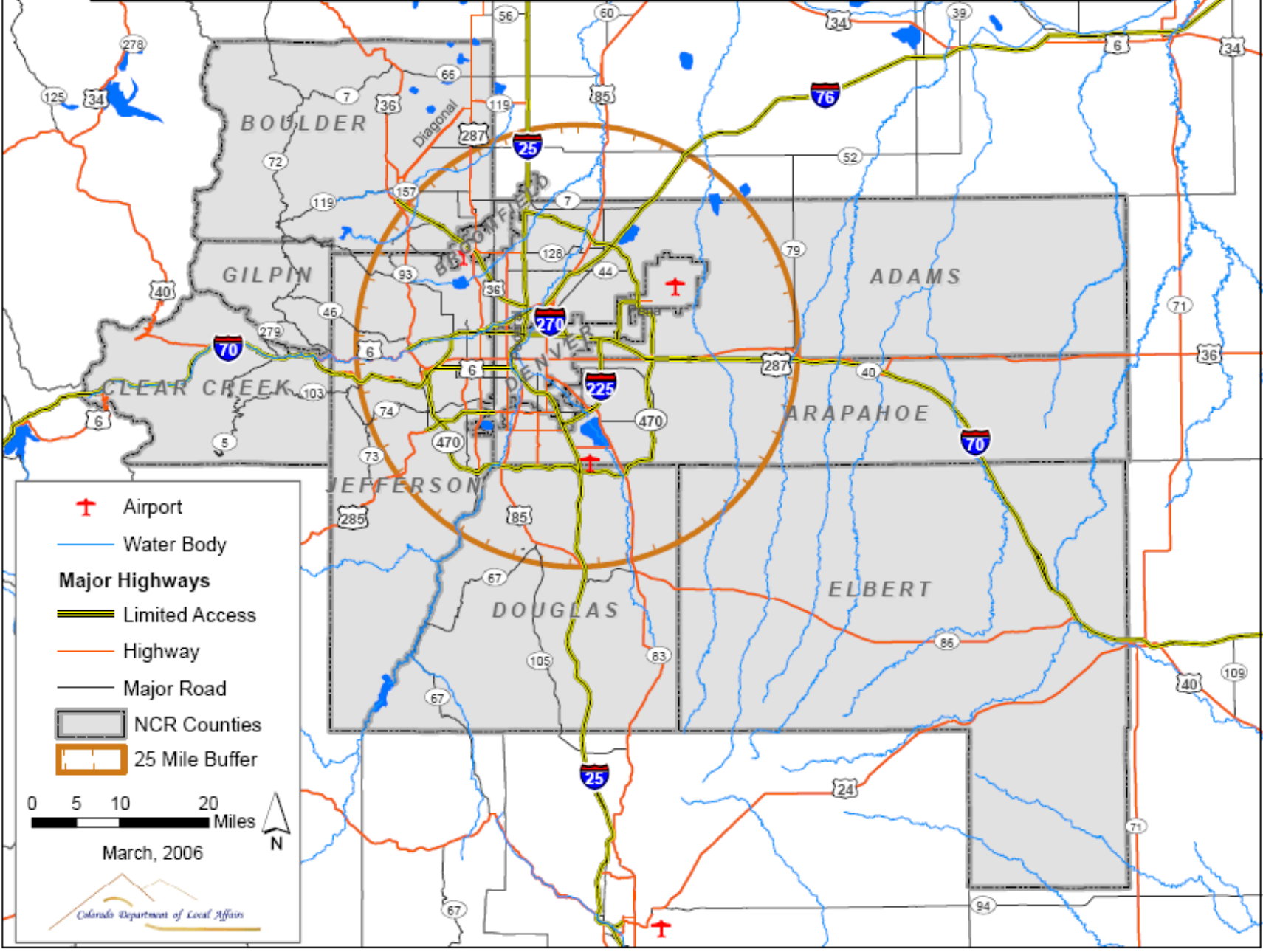
# Key Regional Organizations

- **North Central Region**
  - Over 160 municipalities, jurisdictions, cities and districts
  - Numerous State and Federal infrastructure sites
- **Denver Area Urban Area Security Initiative (UASI)**
  - Urban core; planning activities are collaborative between the two organizations
- **Denver Regional Council of Governments (DRCOG)**
- **Regional Transportation District (RTD)**
- **South Central, Northeast and Northwest All-Hazard Emergency Management Regions are key partners**

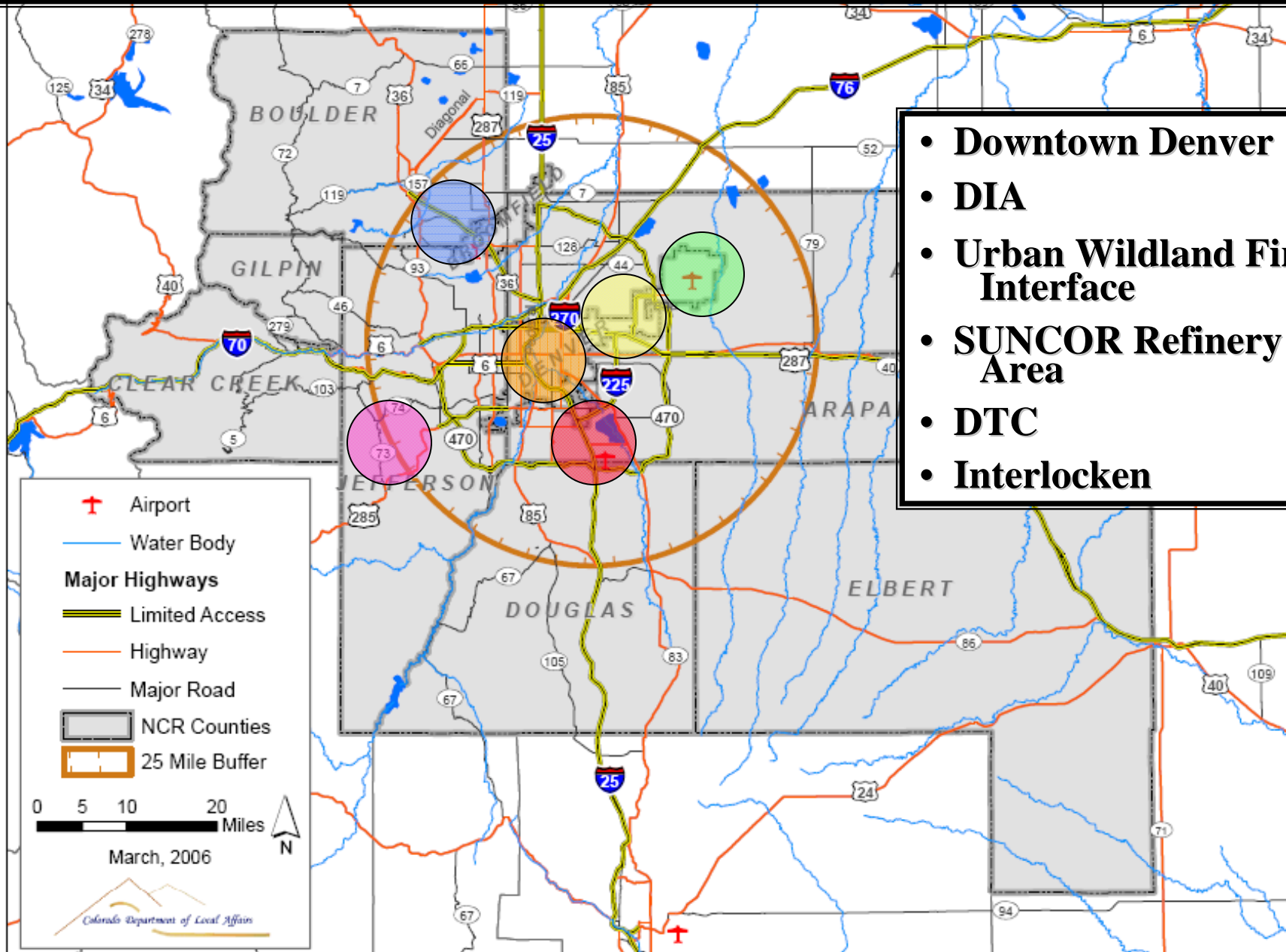
# Basic Planning Assumptions

- **No-notice or little notice for evacuation**
- **Applies to 10 of 15 National scenarios to include earthquake, nuclear events, chlorine tank explosion, disease outbreak, nerve agent, etc.**
- **25 mile radius evacuation radius**
- **Host communities (determined through MOU development) are able to receive and shelter evacuees**

# North Central Region with 25 Mile Buffer around Denver Center Point Regional Evacuation Planning Kick-off



# Specific Site Based Analysis

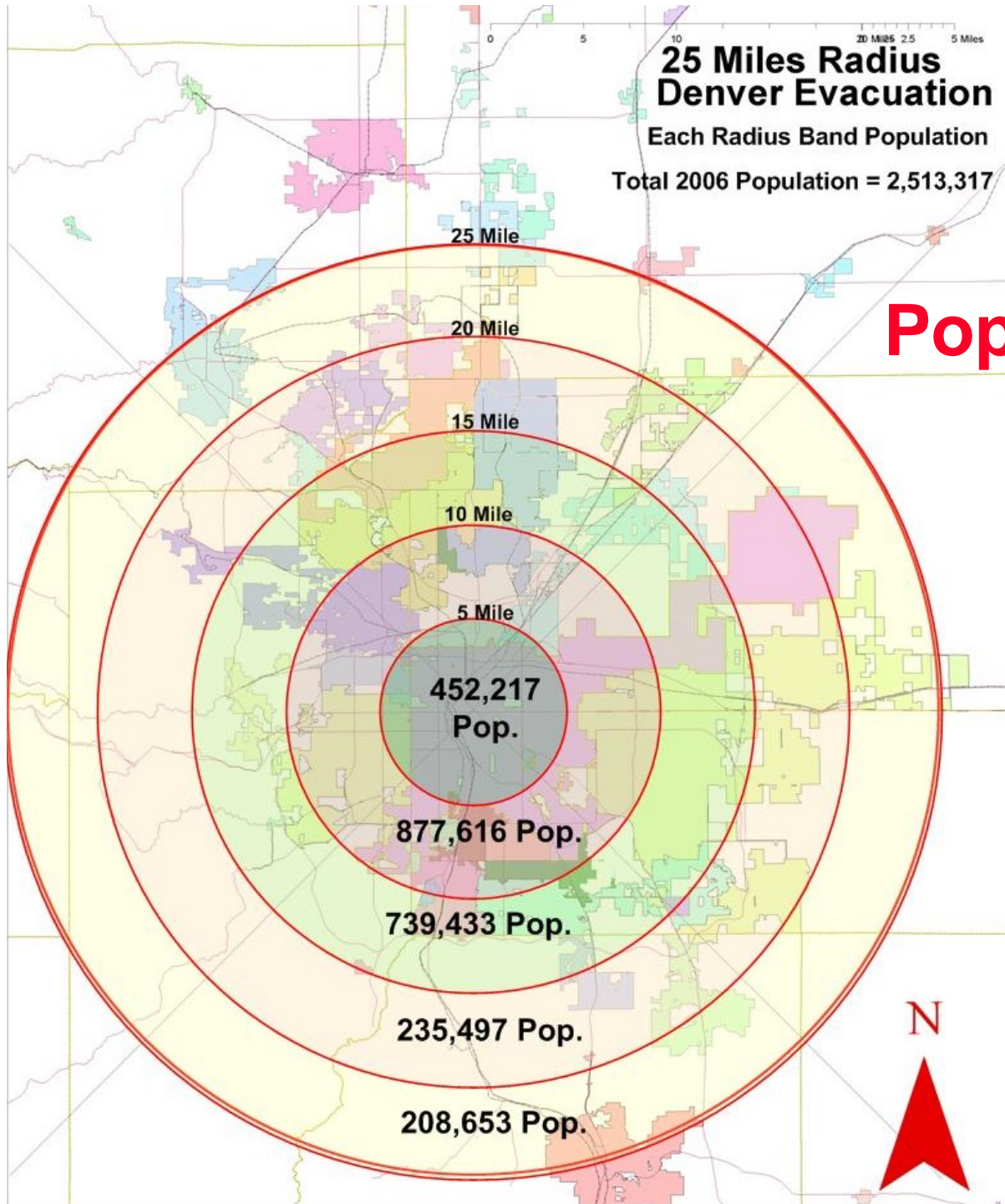


- **Downtown Denver**
- **DIA**
- **Urban Wildland Fire Interface**
- **SUNCOR Refinery Area**
- **DTC**
- **Interlocken**

# 25 Miles Radius Denver Evacuation

Each Radius Band Population

Total 2006 Population = 2,513,317



**2006  
Population Estimate  
2,513,317**

Information From the  
Denver Regional Council of  
Governments  
Provided Population  
Within Each Radius Ring

# Evacuation Planning Process

- **Steering Committee issued planning direction and guidance (D&G) to established sub-committees**
- **D&G included assumptions, limitations, constraints, plan structure, etc.**
- **Sub-Committees are developing their products within these parameters**
- **Shortcomings and/or irresolvable issues will be identified and documented for future attention**

# **Sub-Committee Structure**

- **Command and Control (Steering Committee)**
- **Traffic Management**
- **Logistical/Transportation Support**
- **Sheltering**
- **Special Needs Population**

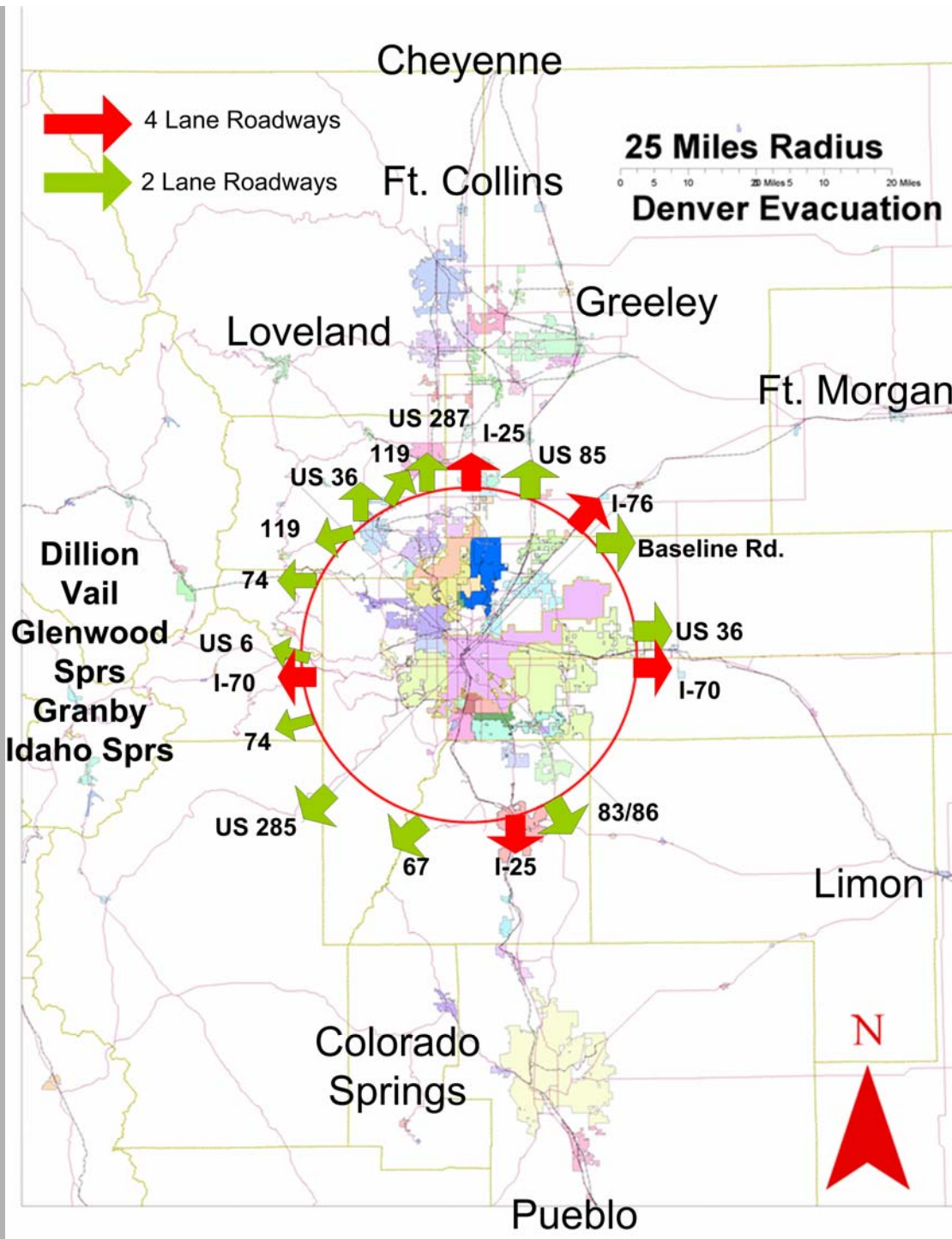
# **Additional Functional Committee Needs**

- **Communications (Regional Communications Committee)**
- **Public Warning/Notification (Regional Public Information Committee)**
- **Medical Support/Surge**
- **Public Education / Awareness (NCR Citizen Corps Council, READYColorado)**
- **Decontamination**

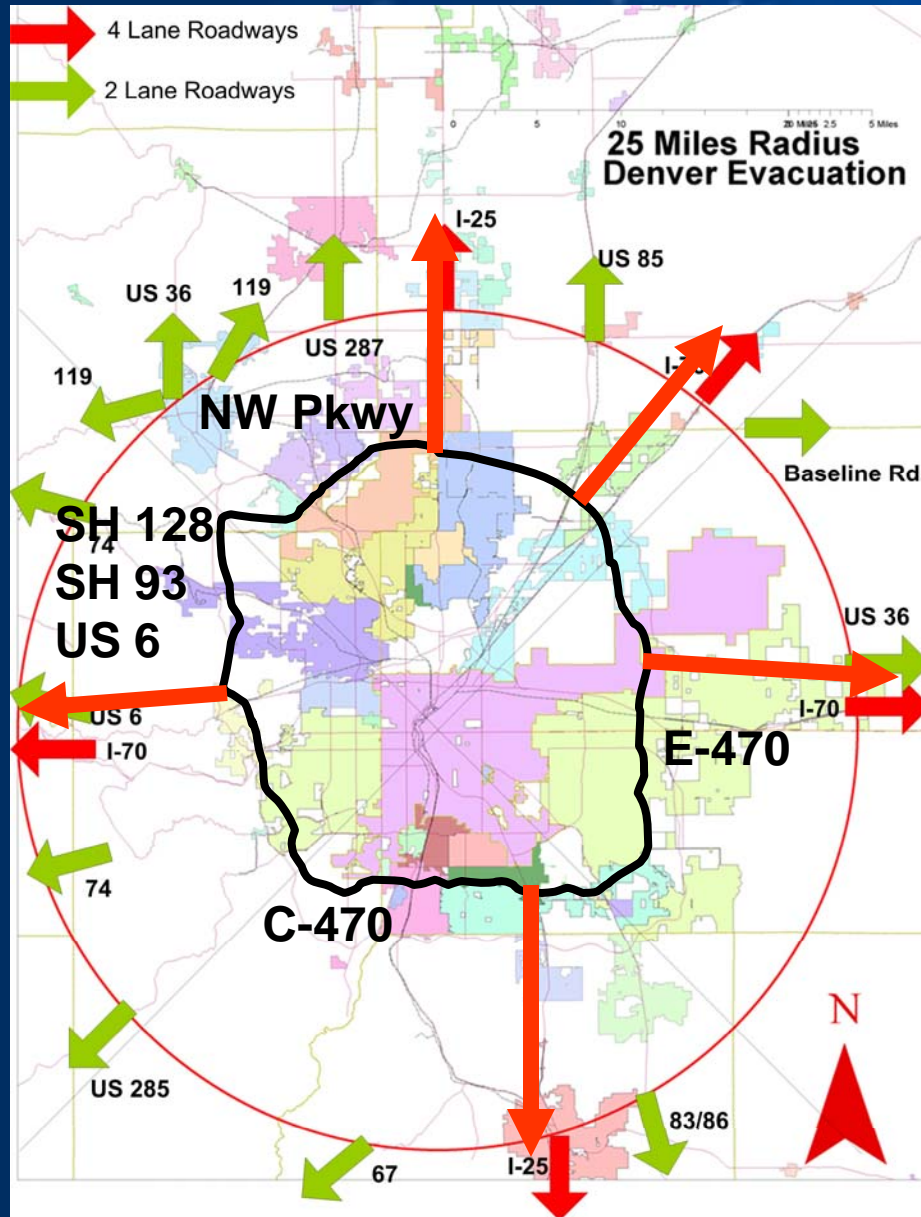
# Traffic Management Sub-Committee

- Evacuation Routes
- Traffic Flow and Control
- Ensure Security of Evacuation Areas





# Reversing the Interstate Highways

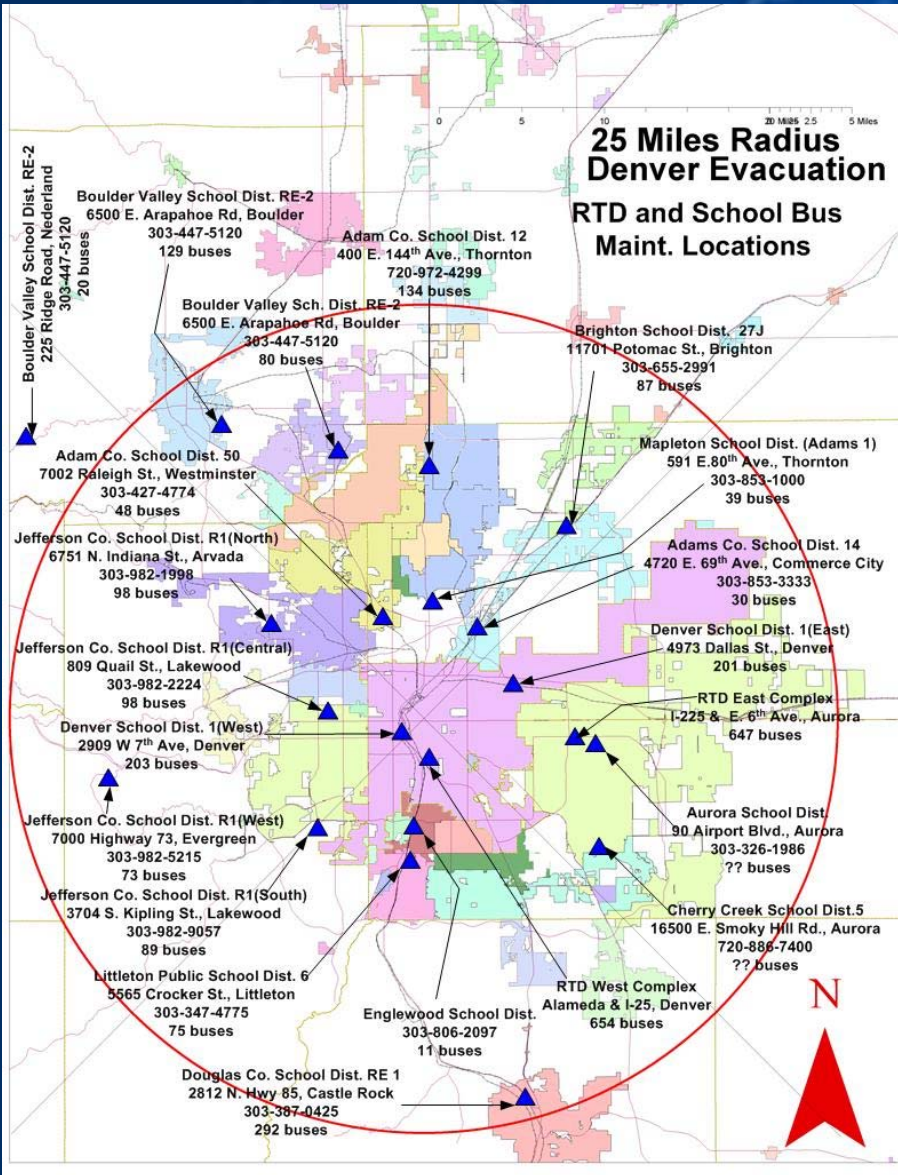


**Start of Reversed Interstate Highways**

**Internal Roadways of the Loop would Not be Restricted For Movement**

**All Other Highways Would Use Normal Outbound Lanes**

# Evacuation of People with No Vehicle



**No. of Buses => 1301**  
**Capacity => 45,535**  
**Wheelchair Buses=> 1301**



**No. of Buses => 1893**  
**Capacity => 85,486**  
**Wheelchair Buses=> 259**

# Fuel Management

## *During An Evacuation*

~~Suncor Refinery  
Commerce City  
(90,000 Bpd)~~

Casper, Wyo  
(24,500 bpd)

Newcastle, Wyo  
(12,500 bpd)

Sinclair, Wyo  
(66,000 bpd)

Cheyenne, Wyo  
(46,000 bpd)

Salt Lake, Utah  
(24,500 bpd)

McPherson, Kan  
(81,200 bpd)

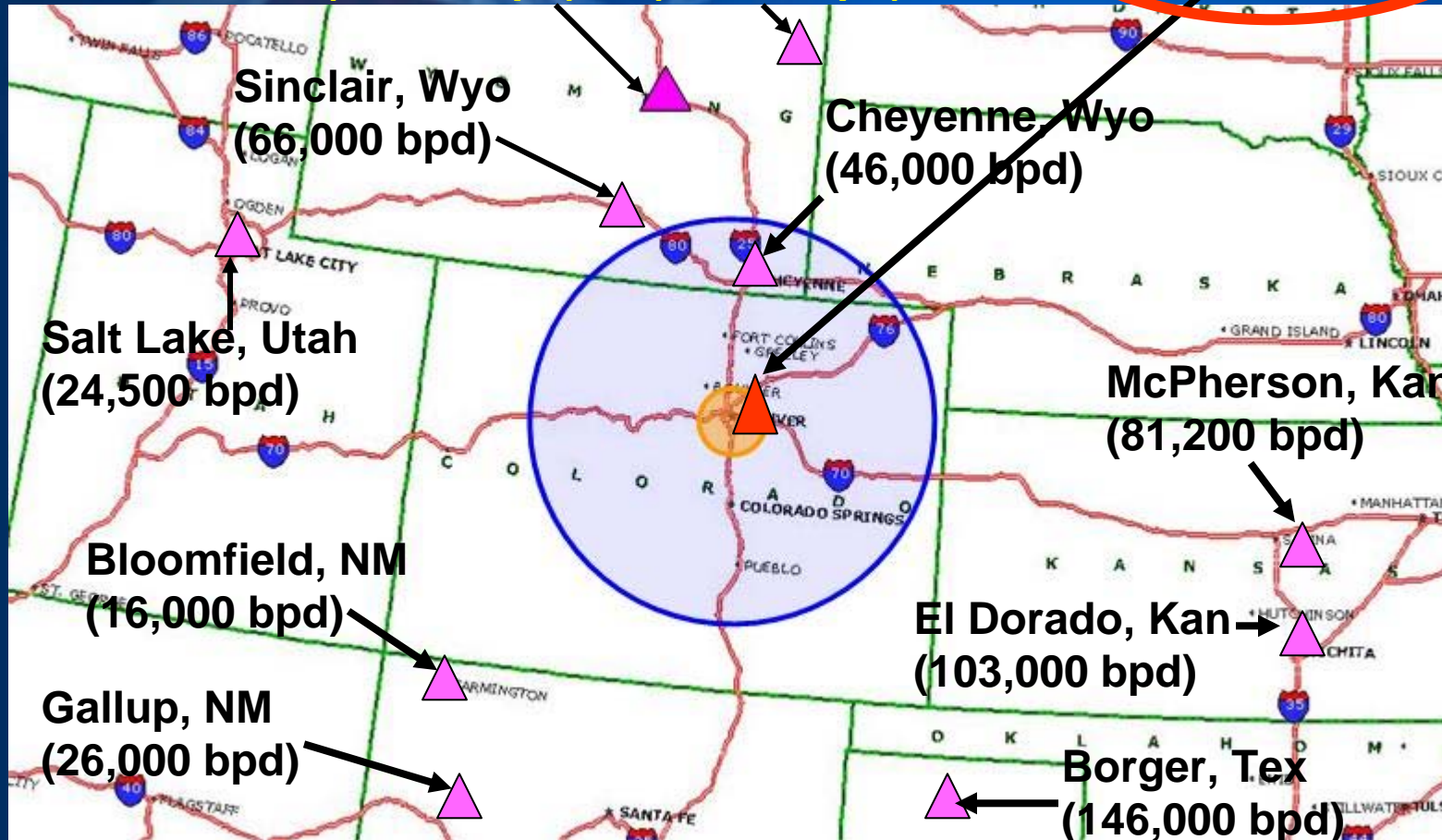
Bloomfield, NM  
(16,000 bpd)

El Dorado, Kan  
(103,000 bpd)

Gallup, NM  
(26,000 bpd)

Borger, Tex  
(146,000 bpd)

**Other Refineries 6 Times Capacity**



# **Lessons Learned**

- **Multi-Jurisdictional Coordination and Integration**  
key element to plan
- **Clearly defined ICS structures to support evacuation**
- **Evacuation Incident Phasing** assists in coordinating a large scale event
- **Detailed Logistical analysis** required

# Challenges to Be Worked

- **How to effectively use busses and transit assets**
- **Logistical support requirements (fuel, water)**
- **Coordination of school closures/children pick-ups**
- **Shelter management and manning**
- **Hospital Evacuations**

# **Regional Evacuation Planning**

**Scott Kellar**

**Homeland Security Coordinator**

**North Central Region – Colorado**

**[skellar@co.arapahoe.co.us](mailto:skellar@co.arapahoe.co.us)**

**303-768-8732**