

Kentucky's December 2022 Tornado

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Respond and Recover

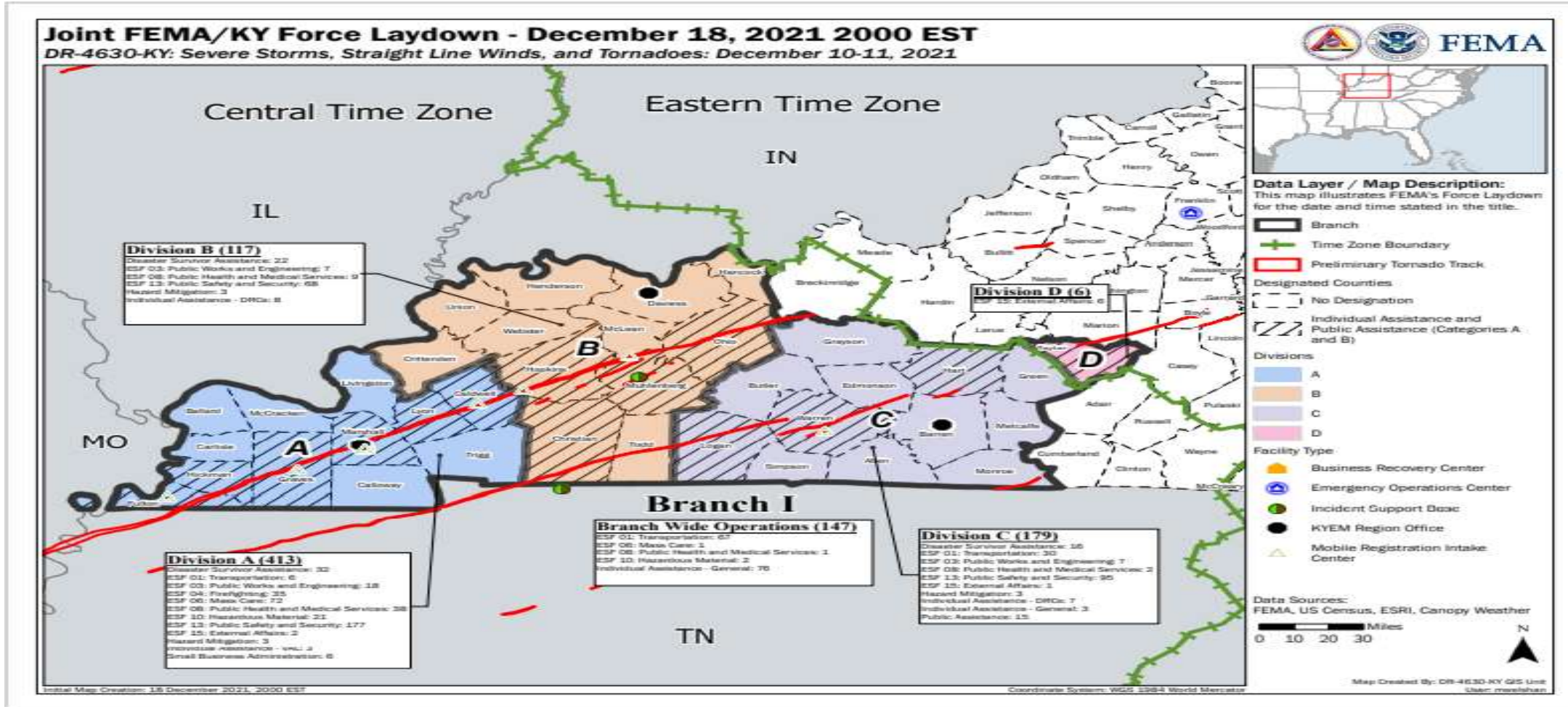
- **KY Emergency Mgmt (KYEM) welcomed Jeremy Slinker as our new Director on March 1**
- **Continuous cycle of respond and recover**
- **Responded to five DRs and COVID-19 since 2021**
- **Extended SEOC activations since January 2020**
- **December 10-11 tornadoes**
- **Marion, KY water shortage - SEOC activated at Level 3**
- **KYEM continues the recovery efforts for DR-4630 Western KY (WKY) tornado and DR-4663 Eastern KY's (EKY) 1,000-year flood**



December 10/11 Tornado Incident



December 10/11 Tornado Incident



December Tornado Response Lessons Learned

Used New Madrid Seismic Zone (NMSZ) Plan

Had access to WKY

Time of event

M-F 0800-1600

After hours, weekends

Houses vs. schools, malls, factories, businesses

Season, weather

Central United States Earthquake Consortium (CUSEC)
initiative to update Mid-American Earthquake (MAE) Center
data based on individual state's NMSZ fault line(s)



December Tornado Response Lessons Learned

Debris

Emergency route clearance vs. debris removal

Cut & Toss teams

Forestry's sawyers & KY National Guard

FEMA waste streams, separation

Piles

Dumpsters

Private Property Debris Removal (PPDR)

Commercial Property Debris Removal (CPDR)

Demolition, leaners & hangers

Rights-of-Ways, Right-of-Access



December Tornado Response Lessons Learned

ESF 5

FEMA Region IV Incident Management Assistance Team (IMAT)
vs. FEMA National IMAT (Blue)

Incident Action Plan (IAP)

State EOC Incident Command System (ICS) positions

Internal Incident Management Team (IMTs) / IMATs

Emergency Management Assistance Compact (EMAC)



December Tornado Response Lessons Learned

Air Operations

IAP

Air Operations Branch (AOB)
Civil / Military

Civil Air Patrol (CAP)

Pictures

Proper Use Memorandum (PUM)

Domestic Imagery Legal Review (DILR)

Storage site

Access

Damage Assessment

Federal Aviation Administration (FAA) rep



December Tornado Response Lessons Learned

ESF 6

Sheltering

Congregate Sheltering (CS) [cots in gyms, community centers, churches]
state provided mattresses from COVID AHCF stock

Non-Congregate Sheltering(NCS)

NCS: State regional shelters using State Resort Parks (lodges, cottages)

NCS: Hotels

Issues: Homeless, those not wanting to leave (better conditions, no where to go)

Lack of houses, apartments, mobile homes, mobile home pads

Info sharing agreements

Start disaster case management request ASAP

KYEM travel trailers (NCS) vs. FEMA temporary housing trailers

Programs not the same

Duration, items provided

Electrical inspections



December Tornado Response Lessons Learned

ESF 6

Evacuation

School buses? Availability, drivers

Funeral benefits

FEMA, State, Red Cross



December Tornado Response Lessons Learned

ESF 7

Contractors / vendors
Pre-disaster agreements

Donations Management
Warehouses: local or state effort
Staffing

Incident Support Base (ISB)
Direct shipped to county points of distribution (C-POD)
Bravo Logistic Staging Area (LSA) pack, x2
USACE generators
KYNG Liaison Officer(LNO)
Signed for by truckload: bottled water, meals, tarps, cots
Signed for, but original seals unbroken; returned to FEMA



December Tornado Response Lessons Learned

ESF 8

Hospital damaged / divert

Hospital surge

Mass casualty plan

Morgue capacity

Reporting deaths



December Tornado Response Lessons Learned

ESF 9 - Search & Rescue (SAR)

Urban SAR (USAR) teams

Incident Support Team (IST)

Coordination with AOB



December Tornado Response Lessons Learned

ESF 12

Power outages

Eagle-I vs. local provider outages maps



December Tornado Response Lessons Learned

ESF 15

Joint Information Center (JIC)
Joint Information System (JIS)

Media

Foreign governments offering assistance



December Tornado Response Lessons Learned

Recovery Funds

FEMA vs. State's relief funds

WKY Relief Fund = Individual Assistance (IA)

State Aid Funding for Emergencies (SAFE)

SAFE fund = Public Assistance (PA)

Who manages funds, application process, application review, approval, notifications



December Tornado Response Lessons Learned

One year later,
we are still dealing with?

Debris and NCS



Tornado and Flood Response Lessons Learned

- NMSZ Plan was utilized for response
- IMATs
- EMAC
- Need for KY qualified IMTs
- SAR
- LSA and C-POD Training
- Shelter Operations
- Donation Management
- Need for contractors to enhance KYEM

