

# Damage Assessment



# What is Damage Assessment?

## Definition:

Timely and accurate assessment of damage to public and private property following an emergency or a disaster.

➤ Purpose – Determine severity of damage, provide information to assist with recovery operations.

# Damage Assessment Includes

## GOVERNMENT AGENCIES

Public facilities and infrastructure

## INDIVIDUAL

Primarily private residences

## BUSINESS

Equipment, inventory, loss of income

## PUBLIC/Private Non-Profit

Expenses Incurred (administrative/salary costs), property damage/loss

## AGRICULTURAL

Estimated loss to livestock, crops, etc.

## PUBLIC UTILITIES

Facilities, sewer, electrical, gas, water, etc.

# Damage Assessment

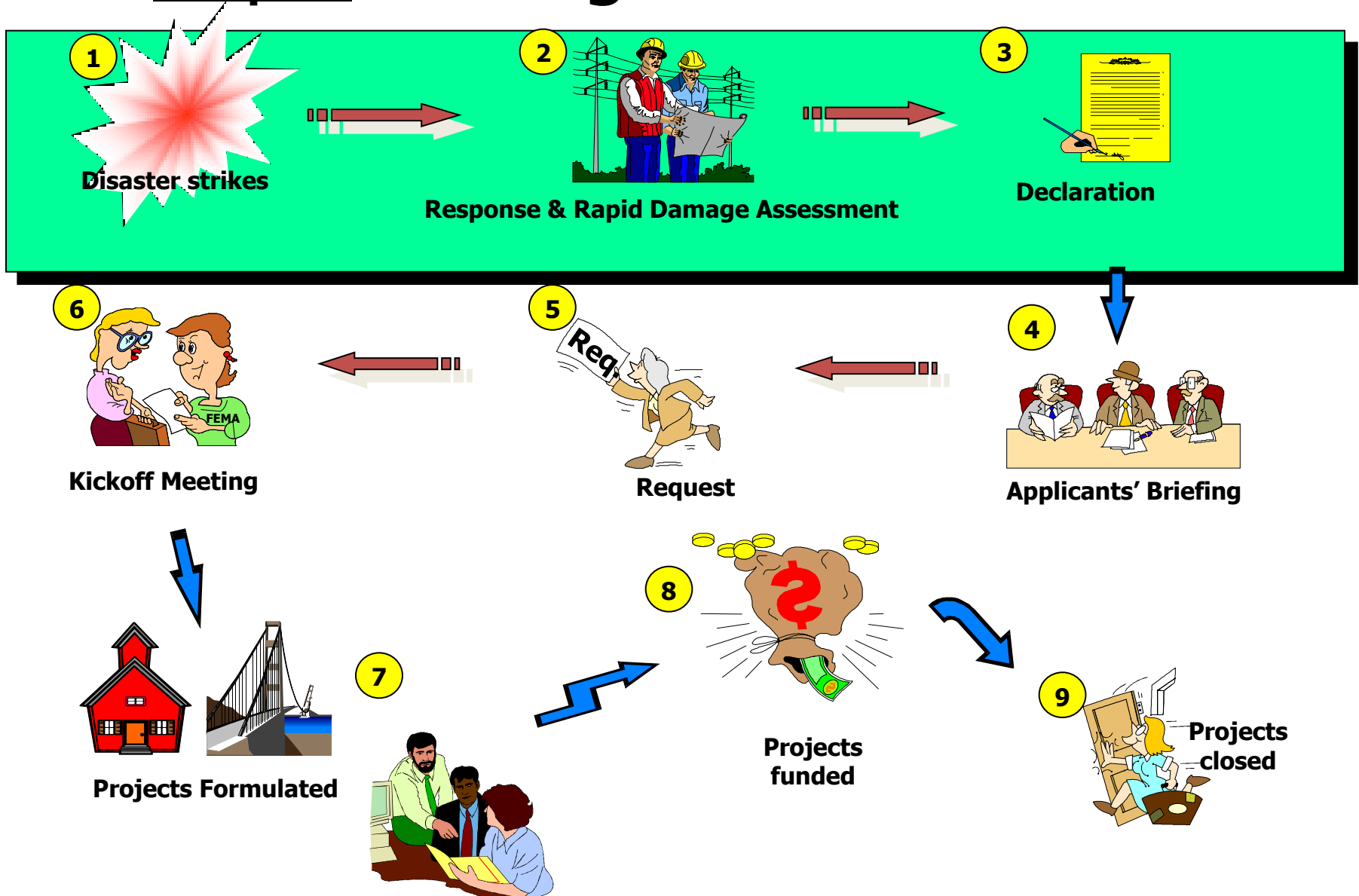
Rapid Damage  
Assessment

Preliminary  
Damage  
Assessment

Joint Preliminary  
Damage  
Assessment



# Rapid Damage Assessment



# Rapid Damage Assessment

- Conducted by local or tribal personnel
  - Provide results of assessment to the local point of contact
  - priority given to severely damaged and critical facilities



# Rapid Damage Assessment

- The emergency manager reports to the next level of government (Local to County)
- Collect and save all data and paperwork to document all costs incurred



# Preliminary Damage Assessment

The PDA is a conducted between the affected local/county/tribal entity and state to document the impact and magnitude of the disaster on both private and public sectors.



# Preliminary Damage Assessment

- The NDEM has primary responsibility for assembling and activating the state PDA teams **upon request of the affected jurisdiction(s):**
- Before the arrival of the PDA team:
  - To guide the state teams to affected area(s), the local jurisdiction appoints LOCAL representatives familiar with the damage

# Preliminary Damage Assessment Teams

- ❑ Teams consist of local, START, Private industry, and Federal Government representatives
- ❑ 1 – 6 Teams of 4-5 members available for deployment
- ❑ Teams are properly equipped to accurately assess, record & report damage



## 2.2

### Preliminary Damage Assessment Conclusion

The Governor will use the results of the PDA and other information as the basis for declaring a state of emergency or requesting federal disaster assistance

## 2.3

### Joint Preliminary Damage Assessment

A team of local/tribal, state and federal personnel conducts the joint PDA.



## 2.3 Joint PDA Damages Sample Worksheet

| Jurisdiction          | Categories of Work |           |                        |           |           |            |            | Total        | Pop <sup>1</sup> | Per Capita Impact |
|-----------------------|--------------------|-----------|------------------------|-----------|-----------|------------|------------|--------------|------------------|-------------------|
|                       | A                  | B         | C                      | D         | E         | F          | G          |              |                  |                   |
| LyonCounty            |                    |           |                        |           |           |            |            |              |                  |                   |
| Lyon County           | \$ -               | \$ 8,586  | \$ 1,159,500           | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,168,086 |                  |                   |
| Fernley, City of      | \$ 186,677         | \$ 25,193 | \$ 140,203             |           | \$ -      | \$ 64,000  | \$ 537,343 | \$ 953,416   | 6,048            | \$ 157.64         |
| Hazel, City of        | \$ 1,435           | \$ -      | \$ -                   |           | \$ -      | \$ 26,977  | \$ 15,600  | \$ 44,012    | 4,350            | \$ 10.12          |
| Dayton, City of       | \$ 16,790          | \$ 14,294 | \$ 65,000              | \$ 50,000 | \$ 59,074 | \$ 54,780  | \$ 320     | \$ 260,258   | 10,704           | \$ 24.31          |
| Lyon, City of         | \$ -               | \$ -      | \$ 110,950             |           | \$ -      | \$ 185,000 | \$ 22,845  | \$ 318,795   | 3,917            | \$ 81.39          |
| Dayton, City of       | \$ 1,310           | \$ -      | \$ 3,890               | \$ -      | \$ -      | \$ 32,030  | \$ -       | \$ 37,230    | 888              | \$ 41.93          |
| Lyon SRD              | \$ -               | \$ -      | \$ 15,600              | \$ -      | \$ -      | \$ -       | \$ -       | \$ 15,600    |                  |                   |
| Union SRD             | \$ 1,000           | \$ -      | \$ 27,900              | \$ -      | \$ -      | \$ -       | \$ -       | \$ 28,900    |                  |                   |
| Lyon FPD              |                    | \$ 12,000 |                        |           |           |            |            | \$ 12,000    |                  |                   |
| Pacific FPD           | \$ -               | \$ 1,006  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,006     |                  |                   |
| Fernley Volunteer FPD | \$ -               | \$ 1,000  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,000     |                  |                   |
| Dayton FPD            | \$ -               | \$ 1,000  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,000     |                  |                   |
| Lyon Ambul. Dist.     | \$ -               | \$ 1,000  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,000     |                  |                   |
| Ambul. Dist.          | \$ -               | \$ 1,000  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 1,000     |                  |                   |
| Dayton Ambul. Dist.   |                    | \$ 800    |                        |           | \$ 1,500  |            |            | \$ 2,300     |                  |                   |
| Lyon County PWSD #1   |                    |           |                        |           |           | \$ 24,901  |            | \$ 24,901    |                  |                   |
| Lyon PWSD #3          |                    |           |                        |           |           | \$ 2,980   |            | \$ 2,980     |                  |                   |
| 17                    | \$ 207,212         | \$ 65,879 | \$ 1,523,043           | \$ 50,000 | \$ 60,574 | \$ 390,668 | \$ 576,108 | \$ 2,873,484 | 80,603           | \$ 35.65          |
| Eureka County         |                    |           |                        |           |           |            |            |              |                  |                   |
| Eureka County         | \$ -               | \$ -      | \$ 746,090             | \$ -      | \$ -      | \$ -       | \$ -       | \$ 746,090   |                  |                   |
| Eureka, City of       |                    |           |                        |           |           | \$ 2,632   |            | \$ 2,632     | 1,625            | \$ 1.62           |
| Cash, City of         | \$ 5,000           | \$ 5,000  |                        |           |           | \$ 27,000  |            | \$ 37,000    | 5,993            | \$ 6.17           |
| Eureka FPD            | \$ -               | \$ 3,542  | \$ -                   | \$ -      | \$ 3,000  | \$ -       | \$ -       | \$ 6,542     |                  |                   |
| Hill FPD              | \$ -               | \$ -      | \$ -                   | \$ -      | \$ 13,331 | \$ -       | \$ -       | \$ 13,331    |                  |                   |
| Rock FPD              | \$ -               | \$ 7,930  | \$ -                   | \$ -      | \$ -      | \$ -       | \$ -       | \$ 7,930     |                  |                   |
| Rock Creek PSD        |                    |           |                        |           |           | \$ 10,500  |            | \$ 10,500    |                  |                   |
| County Park           |                    |           | \$ 2,080               |           |           |            |            | \$ 2,080     |                  |                   |
| 8                     | \$ 5,000           | \$ 16,472 | \$ 748,170             |           | \$ 16,331 | \$ 40,132  |            | \$ 826,105   | 171,380          | \$ 4.82           |
| Washoe County         |                    |           |                        |           |           |            |            |              |                  |                   |
| Washoe County         | \$ 3,100           | \$ 1,000  | \$ 54,400              | \$ -      | \$ -      | \$ -       | \$ -       | \$ 58,500    | 14,006           |                   |
|                       | \$ 3,100           | \$ 1,000  | \$ 54,400              |           |           |            |            | \$ 58,500    | 14,006           | \$ 4.18           |
| 26 Jurisdictions      | \$ 215,312         | \$ 83,351 |                        |           |           | 576,108    |            | \$ 3,758,089 | 5,117,073        | \$ 0.73           |
|                       | 5.7%               | 2.2%      | Total state population |           |           |            |            | 25.3%        | 100.0%           |                   |

State per capita impact

14,006

U.S. Census Bureau, Population Estimates, 2000 census

State per capita impact of \$1.37

<sup>1</sup>U.S. Census Bureau, Population Estimates, 2000 census

## **2.3 JOINT PDA SUMMARY OF DAMAGES**

### **✓ Values and calculations to meet the threshold for a federal declaration**

- 2013 FEMA Indicators for Disasters Statewide Population based on 2010 U.S. Census times Consumer Price Index Adjustment  
 $(\$1.37) \times 2,700,511 = \$3,699,700$**
- 2013 FEMA Indicators for Disasters Statewide Population based on 2010 U.S. Census County Population based on 2010 U.S. Census times the Federal Determined Adjustment  $(\$3.45) \times (\text{Clark County Pop. } 1,951,269) = \$6,731,878$**

# Any Questions?

