



State Debris Management Plan

California the “Disney Land of Disasters”





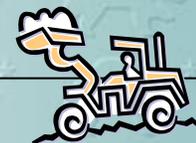
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Debris quantities in natural events are increasing:

- **Natural disasters are happening more often and creating unprecedented amounts of debris**
- **More developments are present in disaster-prone areas**
- **Larger and more complex buildings, homes and mobile home parks that result in larger amounts of debris**

Recent Disasters

- **WTC, approximately 1.6 million tons of debris**
- **2003 Southern California fires, 64,000 tons**
- **San Simeon Earthquake, \$400,000 for debris removal**





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Disaster Types

- **Civil Unrest**
 - **Dam Inundation**
 - **Earthquakes**
 - **Fires**
 - **Floods**
 - **Terrorism**
 - **Tornados**
 - **Tsunamis**
 - **Volcanoes**
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Disaster Debris

- **Appliances (white metals)**
 - **Bio-Hazards**
 - **Construction & Demolition material**
 - **Electronic debris**
 - **Hazardous Household Waste**
 - **Hazardous Waste**
 - **Personal Property**
 - **Sediment**
 - **Metals**
 - **Animal carcasses**
 - **Human remains**
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Debris Removal Issues

- **Types of potential disasters**
 - **Estimated quantities and types of debris**
 - **Eligibility**
 - **How debris will be:**
 - **collected**
 - **stored**
 - **reduced**
 - **disposed**
 - **Ineligible debris**
 - **Identification of responsible agencies**
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Debris Removal Issues – Continued

- **Capabilities of in-house resources**
 - **Identification of work to be contracted**
 - **Identification of applicable environmental and historic laws**
 - **Requirements for state/federal funding**
 - **Private property debris removal**
 - **Improper contracts**
 - **Insufficient monitoring**
 - **Demolition**
 - **Curbside pickup**
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- **The key to a successful disaster debris management program is advance planning.**
 - **In the aftermath of a disaster, the primary focus is restoring and maintaining public health and safety, restoring economic stability and recovering community strength.**
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California OES Responsibilities

- **OES is responsible for the overall management of state disaster relief operations and may task other state agencies to assist with debris management activities as appropriate.**
 - **Tasking other state agencies to support the disaster relief efforts, depending upon the type and scope of the disaster.**
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The State Plan emphasizes:

- **Effective management of disaster debris through the promotion of preplanning activities**
- **Reducing the environmental and economic impact through effective coordination of local, state and federal interagency partnerships.**

The Plan also seeks to:

- **Optimize the use of limited resources**
 - **Facilitate the exchange of information, related training and technical assistance.**
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Priorities

Initial Response

- **Clear debris that hinders and/or poses an immediate threat to public health & safety**

Recovery

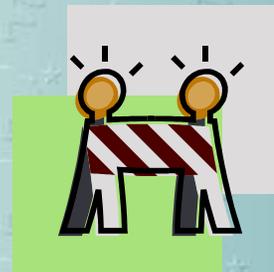
- **Remove & dispose of debris that poses a less immediate threat to public health & safety**



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Initial Response

- **Debris clearance from roads for:**
 - **Emergency vehicles**
 - **Law enforcement**
 - **Critical services resumption**
 - **Damage assessment of critical public facilities & utilities**



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Initial Response - Cont'd

First Priority

- **Hospitals**
- **Police**
- **Fire Stations**
- **Residential areas**

Second Priority

- **Schools, municipal buildings & shelters**
- **Water treatment plants**
- **Power generation units**
- **Airports & Seaports**
- **Residential areas**



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Recovery Activities

- **Removal of debris from public property & rights-of-way**
- **Hauling debris to debris management sites**
- **Hauling debris to permanent landfills**
- **Removing debris from private property**
- **Recycling/reduction of debris**
- **Final disposition**



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Recovery Activities – Cont'd

- **Coordination with local law enforcement**
- **Coordination with state/federal agencies**
- **Daily update briefings**
- **Curbside debris separation**
- **Traffic control procedures**



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Resources

- **Contact list**
- **Pre-selected debris management sites**
 - **Location & status**
- **Landfill status**
 - **Location & capacity**
 - **Maps**
- **Environmental/Historic requirements**
- **List of stand-by or pre-qualified contractors**



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Resources – Cont'd

- **Sample contracts or scopes of work**
- **Stand-by Contracts**
- **Forms**
 - **Rights of entry**
 - **Hold harmless**
 - **Insurance coverage**
- **Agreements**
 - **Mutual aid**
 - **Inter-agency**



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Finale

- **Adopt the plan**
- **Include training**
- **Conduct exercise**
- **Update the plan**





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