

# 11

## **Cascadia Subduction Zone Catastrophic Annex**

### **ESF 11 – Agriculture and Natural Resources**

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ESF 11. Agriculture and Natural Resources

ESF 11 Tasked Agencies	
Primary Agency	Oregon Department of Agriculture (ODA)
Supporting Agencies	Occupational Safety and Health Division (OHSD) Oregon Health Authority (OHA), Public Health Division (PHD) Oregon Military Department (OMD) Oregon Department of Fish and Wildlife (ODFW) Department of State Lands (DSL)
Adjunct Agency	American Red Cross (ARC)

## 1 Purpose

Support State, local and tribal authorities’ efforts to address control and eradication of an outbreak of a highly contagious or economically devastating animal/zoonotic disease, highly infective exotic plant disease, or economically devastating plant pest infestation; and, assurance of food safety and food security prior to, during, and/or after a major disaster.

## 2 Scope

- Includes animal, plant disease, and pest response including implementing State, local and tribal response to an outbreak of a highly contagious or economically devastating animal/zoonotic disease, an outbreak of a highly infective exotic plant disease, or an economically devastating plant infestation.
- Ensures, in coordination with State ESF 8 that animal/veterinary/wildlife issues in natural disasters are supported.
- Assures the safety and security of the commercial food supply, including the inspection and verification of food safety aspects of slaughter and processing plants products in distribution and retail sites, laboratory analysis of food samples, control of products suspected to be adulterated, plant closures, and field investigation.

## 3 Roles and Responsibilities

### 3.1 Primary Agency

#### 3.1.2 Department of Agriculture

The mission of the ODA is 1) to ensure food safety and provide consumer protection; 2) to protect the natural resource base for present and future generations of farmers and ranchers, and 3) to promote economic development and expand market opportunities for Oregon agricultural products.

The Animal Health and Identification Division provide veterinarian services to control and eradicate animal diseases, especially those transmissible to humans, livestock and birds. The Division provides guidance and assistance to local jurisdictions for response to disasters that involve domestic animals.

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#### **Priorities**

- Damage assessment and staffing of the agency AOC;
- Establish essential communications;
- Response to distressed animals and/or diseases effecting domestic animals.

#### **Assets**

- Agency has own AOC for emergency operations however will send a liaison to the ECC;
- State staff of three veterinarians;
- Field Staff – approximately 240 (some of this number is seasonal) – brand inspectors who document testing that is done on domestic animals so that they can be shipped in and out of State to sustain quality control and commerce capability;
- Team 125 – 150 (variable number) of private veterinarians that have been credentialed and trained in ICS response activities that can be called upon to assist the State. These team members are under contract with the Department of Agriculture;
- Have four animal response trailers located throughout the State;
- Have two livestock trailers capable of hauling mobile corrals;
- Have MOU's with veterinarians to augment ODA response Statewide;
- Coordinates with USDA AFIS Veterinary Service;
- OSU will provide responders for disease control (students).
- Have livestock sheltering areas east of the Cascades. Have data to be able to establish alternate private livestock sheltering capabilities.

#### **Capabilities**

- Testing and movement of domestic animals to areas of the State/out-of-State able to care for displaced livestock;
- Re-establish commerce capabilities and regulatory standards;
- Monitor safety and environmental health of Confined Animal Feeding Operations (CAFO);
- Assist with coordination, control and eradication of outbreak of highly contagious disease that affects humans;
- Assure food safety and security in coordination with other agencies, as appropriate;
- Able to telework throughout the State if need be;
- Can sustain basic operations for three to four days with current staff;
- Coordinate for the disposal of animal carcasses;
- Assist with pet sheltering.

#### **Catastrophic Event Operational Challenges**

- Two thirds of the available staff is located west of the Cascades. This scenario may impact their ability to respond;
- Main Department of Agriculture building in Salem will need generator power;
- Determining disposal sites for dead animals;

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- Currently have no radio communications capabilities;
- No amateur radio capability.

#### **Support Needed Immediately After a Catastrophic Event**

- Two thirds of the available staff is located west of the Cascades. This scenario may impact their ability to respond;
- Request veterinarians from out of State who would help manage incident response;
- Will require assistance of Federal Veterinarian Response Teams or additional;
- Field teams will require fuel and road access to areas as needed;
- Main Department of Agriculture building in Salem will need generator power;
- Potable water;
- Currently have no radio communications capabilities;
- No amateur radio capability;
- ODA will need fuel for animal carcass disposal, and disposal of contaminated feed. (Burning)

The **Food Safety Division's** team of field inspectors and staff license and inspect all facets of the food processing and distribution system, except restaurants, to ensure that food is safe for distribution and consumption. This includes shellfish harvesting, dairy, retail grocers, bakeries, non-alcoholic beverages, custom meat, eggs, warehouses and food manufacturing. ODA coordinates with the State Health Officer on milk and other food products in commerce in response to nuclear incidents and works closely with the Oregon PHD in response to all food emergencies.

#### **Priorities**

- Human health is primary priority;
- Animal health is secondary priority;
- Water testing of private wells being used as a water source for industrial food processing.

#### **Assets**

- Have resources to assist county and State Health Departments with food safety issues;
- Have Statewide contact list for food producers and licenses.

#### **Capabilities**

- License - food processors, warehouses, grocery stores, delis, bottled water, milk producers, dairies;
- Inspect all facilities once a year and more often if necessary;
- Contract with FDA for inspections;
- Investigate food safety issues – and recalls;
- Responsible for activating FERN – Food Emergency Response Network and CCAP – Chemistry Cooperative Agreement Program;

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- Provide expertise in determining the safety of sundry food supplies from grocery stores that are not perishable or contaminated to augment sheltering food needs.

#### **Support Needed Immediately After a Catastrophic Event**

- Will not have the capability of testing and verifying the safe handling of food being brought into impacted areas for human or animal consumption;
- Quality assurance of food will have to be done prior to being used in the State.
- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment.
- Accessibility to fuel resources;
- Aerial (fixed wing and rotor) support for medical evacuation and insertion of teams;
- Additional food inspectors will be needed to ensure food safety;
- Communications capabilities for ODA will need to be improved to communicate post-incident.

**Laboratory facilities** provides analysis for food and dairy samples, animal diseases, animal feeds, shellfish, fertilizer, water, plant pest and disease, pesticides, and market assurance analysis. Analyses are also provided for the Food Emergency Response Network (FERN).

#### **Assets**

- Animal lab in Salem for inspection and testing prior to shipping in and out of State;
- Portland Animal lab is located on the Naito Parkway, Portland.

#### **Capabilities**

- Can test Oregon food products destined for overseas shipments;
- Can assist the Department of Health with testing drinking water resources, as needed.

The **Natural Resources Division's** mission is to conserve, protect, and develop natural resources on public and private lands. Primary program areas include: water quality, confined animal feeding operations, smoke management, land use, and Soil and Water Conservation Districts.

#### **Capabilities**

- Can assist county Health Departments with water testing;
- Can provide technical expertise in long term recovery of Agricultural production and conserving natural resources.

The **Pesticides Division** regulates the sale and use of pesticides, provides testing and licensing for all users of restricted-use pesticides, is responsible for fertilizer registration, and investigates incidents of pesticide misuse. Its Pesticide Analytical and Response Center (PARC) functions as a clearinghouse for information on alleged and actual health and environmental incidents and reports its findings. ODA investigates these incidents and reports its findings.

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#### Assets

- Has licensing information of pesticide applicators.

#### Capabilities

- Can assist in sampling and ensuring safety of water supply;
- Coordinates with DEQ on providing pesticide information.

The **Plant Division** works to exclude, detect, and control or eradicate serious insect pests and plant diseases.

- Can provide support to public health matters for radiological incidents consistent with the Advisory Team for environment, food and health.

The **Food Safety Division's** team of field inspectors and staff license and inspect all facets of the food processing and distribution system, except restaurants, to ensure that food is safe for distribution and consumption.

#### Capabilities

- Field staff with expertise to assist local and State health departments with food inspections for safe distribution and consumption;
- Assist State and local public health departments as necessary;
- Will need additional field staff from out of State with qualifications.

#### Support Needed Immediately After a Catastrophic Event

- Will not have the capability of testing and verifying the safe handling of food being brought into impacted areas for human or animal consumption;
- Quality assurance of food will have to be done prior to being used in the State;
- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment;
- Accessibility to fuel resources;
- Aerial (fixed wing and rotor) support for medical evacuation and insertion of teams;
- Additional food inspectors will be needed to ensure food safety;
- Communications capabilities for ODA will need to be improved to communicate post-incident.

## 3.2 Supporting Agencies

### 3.3 3.2.1 Occupational Safety and Health Division

**Oregon OSHA:** Ensures employers understand their responsibilities for protecting their workers, especially during emergency response and recovery operations. Enforces occupational safety and health rules, investigates workplace fatalities, major accidents, and safety and health complaints. Coordinates and performs the actions identified within the Worker Safety & Health Support Annex of the National Response Framework, or State equivalent; provides occupational safety and health technical assistance to other State and local entities; assesses responder safety and health resource needs, e.g.,

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OSHA on-site assistance, incident-specific personal protective equipment protocols, training, safety and health monitoring.

#### **Priorities**

- All DCBS divisions would need to assess their own operational needs and account for personnel;
- Respond to request to send liaison with State ECC.

#### **Assets**

- OR OSHA has field offices around State.
- Location of field offices: Medford, Eugene, Salem, Bend, Portland, Pendleton.
- Pendleton is a satellite office.
- Oregon OSHA Laboratory is located in Portland.
- Vehicles for staff are located at each field office;
- Uses standard communication assets (phones, cell phones, internet);
- Uses the DCBS data network administered by DAS. DCBS/Oregon OSHA would be dependent on DAS for restoration of computer access;
- Operates a nationally certified occupational health laboratory in Portland. This well-equipped lab analyzes samples collected by compliance officers and consultants to determine chemical compositions and concentrations of hazardous substances to which workers may be exposed.

#### **Capabilities**

- Oregon OSHA serves as a regulatory agency with Statewide authority over public and private sector operations and work for worker safety. Worker safety and health complaints would be addressed through established enforcement policies and procedures. If there is a worker safety & health issue, Oregon OSHA may be tasked with ensuring an employer takes care of the issue;
- Works with other State departments to answer questions on worker safety and health;
- Provides technical assistance (answering questions, distributing information, etc.) regarding worker safety and health;
- Education and training for responders and workers on dealing with safety and health hazards;
- Oregon OSHA can assist employers in complying with regulatory requirements for personal protective equipment;
- Liaises with Federal OSHA to ensure worker health and safety;
- Mechanisms are already in place to work with Federal OSHA in an earthquake scenario. In the context of disaster recovery, Federal OSHA will work with FEMA on the national level, assisting Oregon OSHA. This would go back through ECC for tracking;
- Coordinates communication with labor unions, contractors, and other organizations regarding responder safety and health issues;

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- Oregon OSHA has a large inventory of sampling equipment for a variety of substances and hazards, and staff trained on their use;
- Can coordinate with Federal OSHA to provide specialized response teams, for example, construction, biological or radiation safety. Access to and availability of Federal OSHA specialized response teams is contingent on federal/regional priorities.

#### **Support Needed Immediately After a Catastrophic Event:**

- By nature of a catastrophic event, personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment;
- Electrical power backup for the Capital Mall buildings is serviced off the power grid, and OR-OSHA field offices do not have generators for emergency power backup;
- Oregon OSHA communications are dependent on telecommunications and internet;
- Loss of computer and data systems would impact Oregon OSHA operations significantly; however, enforcement citations could be issued through a manual process;
- Might require communication equipment and most likely vehicles, fuel or transport to work locations;
- No private sector contractors that could help with Oregon OSHA regulatory work, which would be bulk of post-quake work;
- Would need to turn to Federal OSHA for assistance, if necessary.

#### **3.2.2 Oregon Health Authority (OHA), Public Health Division (PHD)**

##### **See ESF-8 for complete OHA CSZ information**

- Determine which foods are fit for human consumption and identify potential problems associated with contaminated foods;
- Provide for laboratory and diagnostic support, subject matter expertise and technical assistance to assist in product tracing, inspection and monitoring;
- Assist in surveillance for foodborne disease and occupational safety and health issues.

#### **3.2.4 Oregon Military Department**

##### **See ESF-7 for complete OMD CSZ information**

- Provide support assistance as tasked;
- Has equipment and personnel to assist with physical labor of animal disposal;
- Civil Support Team (CST) has mobile laboratory facilities that could support biologic and food safety surveillance;

#### **3.2.5 Oregon Department of Fish and Wildlife**

##### **Priorities**

- Ensure safety of staff and facilities;
- Establish essential communications;
- Coordinate ODFW assets and personnel for use in disaster response.



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- Nine civil engineers (two being structural engineers) at Salem Headquarters;
- Regional heavy equipment resources to help public interest:
  - Submersible pumps;
  - Backhoe / loaders;
  - Chain saws;
  - ATV's;
  - Tractors, pin on buckets, loaders, front end loaders;
  - Trailers – all sizes;
  - Variety of trucks – 4x4, 4WD, 2WD;
  - Winches, winch dozers;
  - Air compressors;
  - Portable generators;
  - Mobile Radios, roof radio antennas, hand held radios;
  - Portable toilets;
  - 286 boats of various sizes and capabilities – at ODFW facilities Statewide;
  - Responding staff can be prepared to sustain themselves for 72 hours when deployed.

Fish hatchery assets are predominantly out of the tsunami inundation zone. However, many will most likely sustain damage from earthquake.

#### **Capabilities**

- Serve as the point of contact for any zoonotic diseases involving wildlife;
- Assist in responding to a highly contagious/zoonotic disease or other emergency involving wildlife;
- Water transportation capabilities from Northwest Regional Hatcheries – 37,400 gallons of water;
- Water transportation capabilities from Southwest Regional Hatcheries – 13,800 gallons of water;
- Provide assistance to ODOT, county, and local public works agencies for debris removal and road maintenance;
- Provision of available freezer capacity at regional hatcheries for uses other than mass fatality;
- Provide freezer / cold storage for mass fatality incidents;
- Participate in the Oregon Health Services – Drinking Water Program:
- Drinking Water guidelines – hauling water for drinking purposes is not regulated in the State of Oregon. The mission of the Drinking Water Program is to assure all Oregonians safe drinking water. These guidelines have been developed by the

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Drinking Water Program to help provide the “hauler” an effective means to ensure the delivery of safe drinking water.

- Provide Mobile Water Tanks and Mobile Food Establishment Water Tanks as needed. Mobile Water Tanks shall be:
  - Safe;
  - Durable, corrosion-resistant and nonabsorbent; and
  - Finished to have a smooth, easily cleanable surface in order to meet all safety standards to haul food grade potable water.

#### **Catastrophic Event Operational Challenges**

- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as ‘available’ for mission deployment;
- Limited access to resources in coastal communities due to damaged infrastructure;
- Need for immediate restoration of emergency communications;
- Ability to provide delivery of potable water to coastal areas is diminished due to likely damage to roadways and bridges;
- Access to potable water is necessary for use of liberation trucks for water delivery;
- ODFW does not have water purification capabilities;
- Power is required to run all freezers. Some hatcheries have generator power. However, will only have short term capabilities without fuels.

#### **Support Needed Immediately After a Catastrophic Event:**

- Damage assessment of coastal facilities capable of providing local support;
- Generators for facilities;
- Fuels for equipment, vehicles, and generators;
- Transport of teams to/from impacted areas via air or sea if roadways are unavailable;
- Limited access and communication to facilities in coastal communities due to damaged infrastructure;
- Emergency communication established;
- Water purification capabilities.

### **3.2.6 Department of State Lands**

#### **Priorities**

- First priority is ensuring life and safety of DSL personnel and ensuring offices are safe for work;
- Provide liaison to State ECC;
- Provide approvals for the use of State lands as necessary for response and recovery.

#### **Assets**

- Have three offices, Salem (80 on staff), Bend (10 staff) and South Slough, Coos Bay (15 staff);
- Natural resource specialists on staff;

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- Have scientists on DSL Staff that are linked with the Pacific Tsunami Warning Center;
- Can provide GIS analysis and mapping capabilities. Three specialists that can assist as needed with GIS issues and information;
- Have a small fleet of vehicles in Salem - two 4WD vehicles, three sedans and one cargo van;
- Network of instruments in the South Slough that record water surface elevation and other water quality and meteorological parameters;
- Bend office has six 4WD vehicles;
- Have one boat located in Salem with trailer used to do surveys of property along navigable waterways and survey docks;
- DSL administrative office located in the town of Charleston (SE of Coos Bay on the South Slough);
- South Slough DSL office vehicles:
  - Two 4WD vehicles
  - A one ton tilt bed equipped with tandem rear wheels and a bumper mounted winch (located at the SSNERR maintenance facility)
  - A half ton conventional pickup with four traction tires. ( Located on the OIMB campus)
- We have about seven VHF radios with an assigned frequency;
- Two twin axle utility trailers and a 14 hp 4WD diesel tractor equipped with a small front bucket and a 3 point trailer hitch and power takeoff. This is a smallish “landscape” tractor that fits on the trailers mentioned above.
- South Slough DSL office boats:
  - Smokercraft 18 foot flat bottomed skiff with trailer and steering console, electric start 4 stroke 40 hp located on the Oregon Institute of Marine Biology campus in Charleston (in tsunami inundation zone)
  - Alumaweld 16 foot semi vee hull with trailer and steering console. Electric start 4 stroke 55 hp located on the Oregon Institute of Marine Biology campus in Charleston (in tsunami inundation zone)
  - Valco 16 foot lightweight flat bottom “jon boat” with trailer and 20 hp pull start (location varies between OIMB and SSNERR Interpretive center)
  - Valco 14 foot lightweight flat bottom “jon boat” without trailer and 15 hp pull start outboard

Human powered craft including:

- 22’ fiberglass eight passenger canoe with trailer
- Two or three conventional 17’ canoes (three passenger)
- Three or four Roto molded kayaks. (single passenger)
- Trailer designed to carry four to six paddle craft

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- All human powered craft are located at the SSNERR Maintenance facility (outside of the tsunami inundation zone)
- Modified the water supply system at SSNERR's interpretive center to store 2,000 gallons of potable water in two tanks and have another 1,000 gallon potable water storage tank at the Spruce ranch complex near the maintenance facility;
- DSL has access easement agreements with private property owners to gain access to State lands;
- Maintains a data base of all State owned lands.

#### **Capabilities**

- Coordinate with the Department of Agriculture regarding those activities relevant to DSL's responsibilities (access, special permits, et cetera).
- DSL can provide information relevant to wetlands, State-owned forestland and easements that exist in Oregon, as well as other necessary information consistent with the mission of Department of State Lands;
- Administers navigable waterways up to ordinary high water, coast areas – submerged and submersible lands up to three miles out;
- Provides pre-event tsunami awareness training;
- Manages State owned range land and forest lands for income;
- Forest land is managed by the Department of Forestry and timber sales are used to fund education;
- Through the State debris removal plan, tasked with providing State lands for stock piling debris;
- As manager of State owned properties, can use State property to establish staging areas;
- Issue rights of way and special use permits for the Army Corps of Engineers, ODOT and other agencies that require access to damaged areas within State lands in Oregon;
- Can assist in the coordination of debris removal;
- Can implement emergency authorization process to allow for emergency removal of debris from waterways without going through the permitting process;
- All staff can be moved to areas of need regardless of area office they are primarily assigned to;
- Staff can work virtually if offices are damaged and unsafe;
- DSL is a regulatory – land management agency and would provide emergency authorization when and where needed;
- DSL has contracts for legal services, real estate services – appraisals, audit services, technical and natural resource services.

#### **Catastrophic Event Operational Challenges:**

- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment;

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- Accessibility to fuel resources;
- DSL does not have mobile operations capabilities. Staff can work from anywhere if there is power and communication connectivity;
- All communications depend on land line, cell phone, and computer e-mail capabilities;
- No capabilities to sustain a crew without a living area, food, water and power;
- Environmental laws that may hinder access to and through State owned lands and water ways.

#### **Support Needed Immediately After a Catastrophic Event:**

- Fuel for vehicles;
- Getting staff where they need to be due to roadways being compromised;
- Need electricity/telecommunications/internet access for operational capabilities and access to computer databases necessary for operations.

### 3.3 Adjunct Agency

#### 3.3.1 American Red Cross

##### **See ESF-6 and ESF-8 for more ARC CSZ information**

- Upon request, assist in establishing, coordinating, and managing the State's sheltering missions to include supporting medical and mental health needs;
- Provides emergency first aid, consisting of basic first aid and referral to appropriate medical personnel and facilities, supportive counseling, and health care for minor illnesses and injuries to incident victims in mass care shelters, the JFO, selected incident cleanup areas, and other sites deemed necessary by the primary agency;
- Provides supportive counseling for family members of the dead, for the injured, and for others affected by the incident;
- Acquaints families with available health resources and services, and makes appropriate referrals;
- Refers all concerns regarding animal health care, safety, or welfare to American Veterinary Medical Association contact(s) in the disaster area. These contact people are veterinarians affiliated with national, State, county, or local veterinary associations;
- Support emergency medical needs on site.

## 4 ESF-11 Operations

OEM will coordinate all requests for assistance and communicate with the State agencies to identify the appropriate action and State resources to be used. Once Agriculture and Natural Resources assets have been identified to meet the request, OEM will create an action to the specific State agencies to accomplish the task.

The ODA responds to requests for assistance by coordinating aid to those affected jurisdictions who have reported animal evacuation and sheltering needs, highly contagious or economically devastating animal or zoonotic disease, or any known

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outbreak of economically devastating plant pest or disease. During ECC activation or State emergency declaration ODA, in coordination with the State ECC, deploy personnel and supplies appropriate to any situation where the above referenced issues require assistance.

#### 4.1 Objective

ESF-11 objectives include:

- Coordinate veterinary medical care, sheltering, and carcass disposal of animals following an earthquake;
- Assure of the safety and security of the commercial food supply through inspection and verification of food safety;
- Organize the protection of Oregon natural resources by formalizing appropriate response actions to conserve, rehabilitate, recover and restore sensitive ecological areas.

#### 4.2 Challenges

- Rescue of animals is unlikely to be a high priority of responders dealing with multiple incidents directly threatening human lives;
- Many animal owners will resist assistance and sheltering if it means leaving their pets;
- Agriculture accounts for 15% of the Oregon economy; this scenario would have a huge impact on the economic health of the State.

#### 4.3 Assumptions

Following a strong earthquake, there will be damage to barns, fences, and other enclosures that may lead to the release of animals that subsequently roam about unrestricted, endangering the health and safety of humans. There will also be losses to animal and crop-related businesses in affected areas.

Since an estimated 60% of households have pets, it is likely that many animals will require veterinary care and sheltering when these homeowners become displaced in the earthquake. In addition to pets, service animals as well as a large number of horses and other livestock in the area will be affected, both by injury and by food/water deprivation. Therefore the State should expect a large number of animals requiring care and sheltering.

The earthquake and resultant tsunami may lead to the deaths of large numbers of animals which will necessitate the use of safe and efficient methods of animal carcass movement and disposal.

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4.4 ESF-11 Shortfalls and Requirements

SHORTFALLS	REQUIREMENTS
Trained Personnel to respond to agricultural, animal and natural resource issues.	<ul style="list-style-type: none"> <li>▪ Environmental Response Teams.</li> <li>▪ Rapid Assessment Teams.</li> <li>▪ Pet shelter staff and veterinarians.</li> </ul>
Ability to evacuate and shelter pets and livestock	<ul style="list-style-type: none"> <li>▪ Pre-established pet sheltering agreements.</li> <li>▪ Policies for location of pet shelters near human shelters.</li> <li>▪ Established protocols and priorities to deal with animals and owners that are a threat to their own or others' safety.</li> <li>▪ Pre-existing locations and policies for livestock sheltering and/or evacuation.</li> <li>▪ Public messaging and communications regarding animal issues.</li> <li>▪ Pre-established plans for feeding of pets and livestock following disaster.</li> </ul>
Food and water safety sampling, laboratory analysis and data interpretation	<ul style="list-style-type: none"> <li>▪ Air, water, soil, and food safety sampling teams.</li> <li>▪ Ability and staff to monitor food coming into State following disaster.</li> <li>▪ Ability and staff to ensure safety of Oregon agricultural products.</li> </ul>

4.5 Concept of Operations

ESF-11 functions include but are not limited to:

- Communications with recognized animal health care providers, and agencies;
- Coordination of multi-State event response and recovery with local, State, and federal animal response agencies;
- Develop a list of resources available within and outside the State to conduct animal-agriculture response and recovery activities;
- Develop plans to use in impacted areas to conduct animal-agriculture response and recovery activities;
- Assistance may be needed for such issues as the
  - Search, capture, transportation and sheltering/pasturing/stabling of animals in and outside of the impacted areas;
  - Providing veterinary care for injured and/or diseased animals;
  - Providing supplies for and the monitoring/tracking of shelter activities;
  - Ensuring a safe supply of agricultural products;
  - Providing support for management of native wildlife animal species.
- Coordinate with ESF-7 and ESF-6 on relevant donated supplies;
- Implement procedures to obtain and coordinate resources to respond to requests for assistance concerning animal carcass disposal, and animal- and agriculture-related public health concerns.

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- Develop public information to assist the public regarding animal and agricultural issues following an earthquake;
- Implement procedures to obtain and coordinate resources to respond to requests for assistance regarding animal-agriculture issues following an earthquake. This includes requesting assistance (veterinary and related resources) from outside the State, if needed;
- Assist with damage assessment of agricultural facilities and submission of damage assessment information to appropriate parties;
- Coordinate with USDA and other Federal agencies, as needed, on all response and recovery issues.

## 5 Supporting Documents

- National Response Framework, ESF 11 – Agriculture and Natural Resources
- County ESF 11 Annexes

### Animal Health and Identification Division

- Avian Influenza Surveillance and Response Plan (November 2006)
- Animal Disaster Response Plan (March 2007)
- Oregon Animal Disease Emergency Management Plan (June 2007)

### Food Safety Division

- Food Emergency Response Plan (Draft)
- Food Emergency Response Network (FERN)

### Plant Division

- Plant Division Emergency Response Plan (August 2006)
- MOU ODA/USDA – Provide Cooperation to Protect Agricultural, Horticultural, Timber and Natural Plant Resources from Losses Caused by Plant Pests or Noxious Weeds

### Oregon Department of Agriculture

- Continuity of Operations Plan (2007 Draft)
- State of Oregon Animals in Disaster Plan