LANE

## PREPAREDNESS

COALITION



Ice Storm 2016: Lessons Learned

February 8, 2017

## **AGENDA**

• Call to order, LPC Chair Jill Hoyenga



#### PUBLIC AGENCY PANEL

- City of Eugene Public Works, Scott Milovich
- City of Eugene Risk Services, Kevin Holman
- City of Springfield, Ken Vogeney
- Eugene Water & Electric Board, Jeannine Parisi



# CITY OF EUGENE PUBLIC WORKS EMERGENCY COMMAND CENTER (ECC)

- Scott Milovich, Parks Operations Manager
- Activated ECC December 14
  - December 15 18 Operated on 12 Hour Shifts
  - Returned to 8 hour shifts Monday December 19 for safety reasons
- Initially for sanding/de-icing and tree debris removal
  - Primarily a tree event
  - Shifted to ice/snow removal as needed 24 hours
- Currently in a debris clearing/recovery operation
  - Plan to complete operations mid-March



# CITY OF EUGENE PUBLIC WORKS ESTABLISHED GOALS

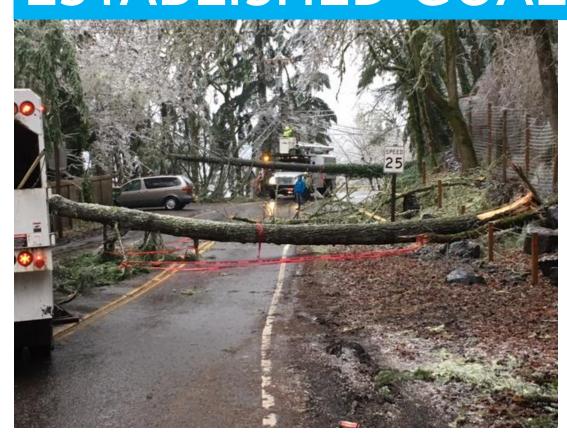


Photo Courtesy of EWEB Wire Watch

#### Primary focus on priority transportation routes

- Public and employee safety
- Ice/snow removal
- Tree debris removal
- Hazardous tree identification and removal

#### Initial Response

- Tree hazards and closed roads based on reports from public, agencies and scouting
- Ice/Snow based on response plans and zones

#### Ongoing Response

- Tree hazards identified, verified and prioritized by scouting
- Ice/Snow based on response plans and zones
- Area approach

# CITY OF EUGENE PUBLIC WORK AFTER ACTION REPORT

#### Strengths

- Use of technology
  - Tree scouting GIS application
- Coordination and resource sharing internally
- Communication with outside agencies and City EOC

#### Areas for improvement

- Internally filling roles in ICS structure
- Resource challenges
- Building relationships with outside/neighboring agencies

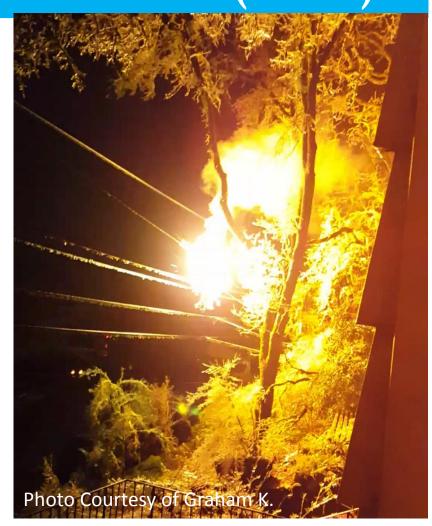


## CITY OF EUGENE EMERGENCY OPERATIONS CENTER (EOC)

Kevin Holman, Emergency Manager

#### December 15, 2016

- Estimated 17,000 services without Power
- EWEB estimated 5 to 7 days to correct outages
- NOAA below 32\*F through Sunday December 18
- City and County coordination meeting held
- City executives notified partial activation
- Verbal approval for an emergency declaration
- The City Disaster Operations Task Team (DOTT) notified



# CITY OF EUGENE EOC RESPONSE EFFORTS



#### **December 16**

EOC initial briefing

#### **December 17**

- American Red Cross shelter setup
- EOC Community Information Call Center
- Community Organizations Active in Disaster (COAD)
- Library and Community Centers
- December 21
  - EOC Demobilized

# CITY OF EUGENE AFTER ACTION REPORT

#### **Strengths**

- Public information process/plan worked well
- People from across the organization (Library, Recreation, and Cultural Services - LRCS)
- Virtual EOC combined with regular meeting was positive

#### **Areas for Improvement**

- Employee childcare
- On-boarding specialists
- Real-time tracking for payroll



### CITY OF SPRINGFIELD

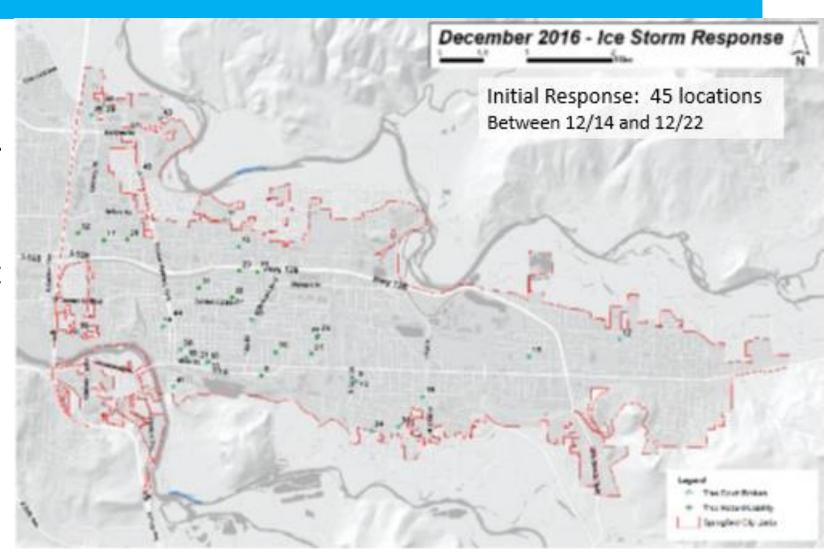
Ken Vogeney, PE, Emergency Manager Incident Roles: Emergency Manager/ ICS Planning Section





### AFFECTED AREAS IN SPRINGFIELD

- Storm mostly on west side
  - 7 sites east of 28<sup>th</sup> St.
- Tested field data collection tool for damage assessment
  - ArcGIS Collector
- Tested Springfield Quick Reference Guide



### POWER OUTAGES IN SPRINGFIELD



- SUB had over 3,000 customers lose power (about 10%)
- SUB restored all of their system power by 8 pm on 12/16
- 2 water supply wells lost power
- 2 wastewater pump stations lost power

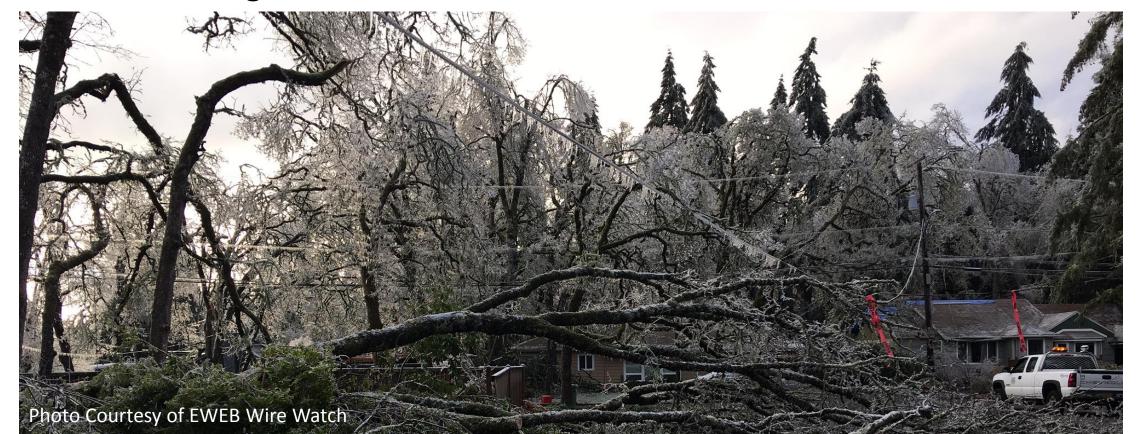
# SPRINGFIELD EMERGENCY MANAGEMENT



http://www.springfield-or.gov/dpw/EmergencyManagement.htm

### EUGENE WATER & ELECTRIC BOARD

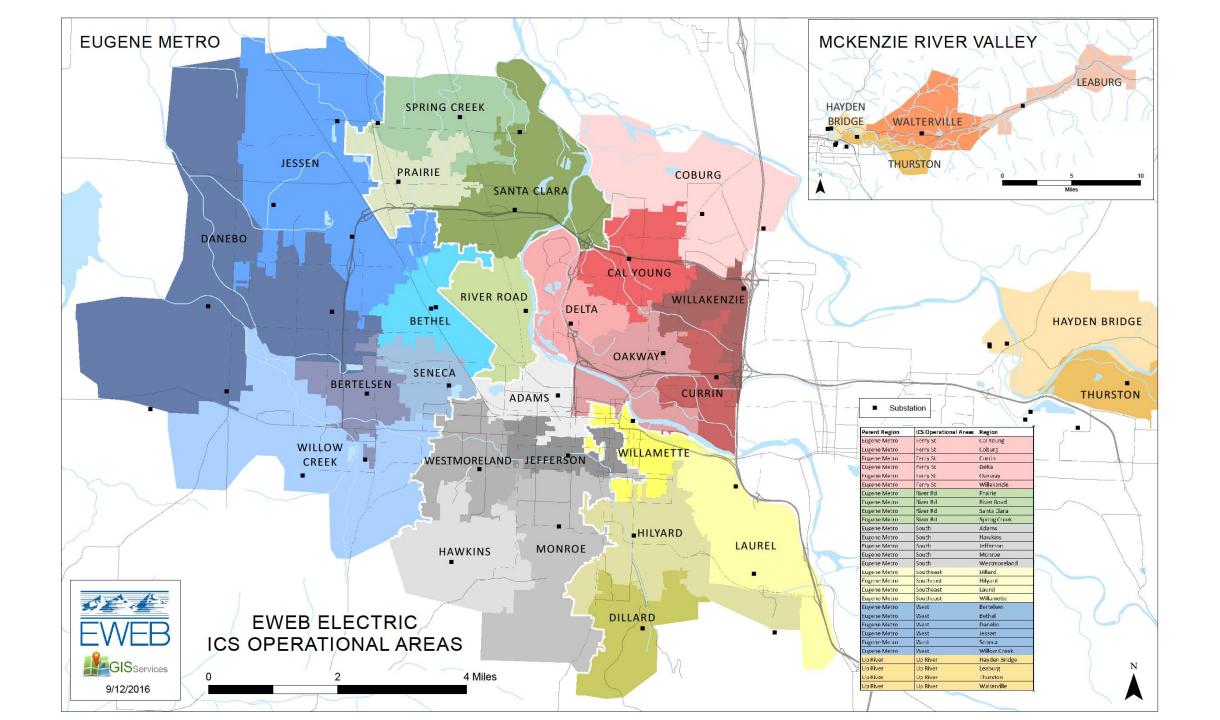
- Jeannine Parisi, Government & Community Coordinator
- Served during several shifts as EWEB Public Information Officer



### FIRST 48 - 72 HOURS IN EUGENE

- Incident Command Center established
- Temperatures remained below freezing
- 22,000+ customers out of power (about 25%)
- Damage to electric system widespread, affecting numerous 'feeders' & several transmission lines.
- Make safe first priority
  - Downed wires
  - Tree incidents
  - System foundation work





### WHAT WORKED WELL



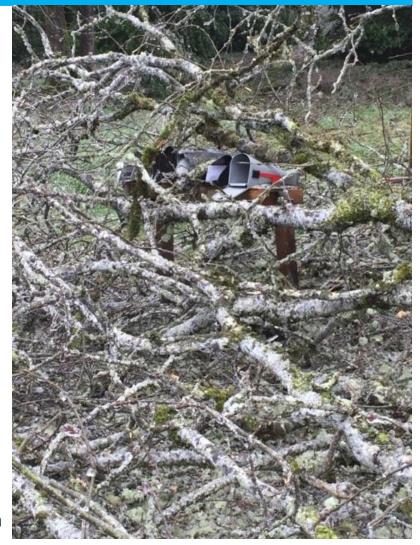
Photo Courtesy of EWEB Wire Watch

#### Mutual Aid

- 25 utility & contract crews
- Work flow, available equipment, logistical support like lodging
- Coordination with public works
- Social Media/Website
  - Avg 10,000 engagements/day
  - 888 EWEB updates on Twitter
- Staffing
  - 6 public info staff (2 PIO/3-4 social media channels)
  - 24/7 customer service
  - Planning and project design

### **CHALLENGES**

- Outage line overwhelmed
  - 250,000 calls received
  - 148,000 texts
- Traditional communications missed
  - Info on community resources in EWEB lobby?
  - On-hold messaging sooner
- Technology limitations
  - No AMI = flying blind
  - Paper system for work orders/clearing jobs



### LESSONS LEARNED



- Build bench strength
  - ICS & PIO
  - Outage system
  - Wire watch
- Train & document
- Public Outreach
  - Preparedness
  - Tree trimming
  - Customer contact info

#### **STORM STATS**

About \$4.2 M

157 cross arms

135 miles of wire

40 transformers

28 poles

200 customer meters

1,000+ water customers on generators

### NON-PROFIT SECTOR PANEL

- COAD Chair, Karen Edmonds, Food for Lane County
- University of Oregon, Krista Dillon
- Spencer Butte Neighborhood Association, Dr. Geoff Simmons



# COMMUNITY ORGANIZATIONS ACTIVE IN DISASTER (COAD)

Mission: To bring together a broad array of community organizations to foster an effective response to the people of Lane County in times of disaster.

### COAD MEMBERS

- 211 Info
- American Red Cross
- Cascade Manor
- Catholic Community Services
- Central Aid Agency
- City of Eugene Emergency Management
- Episcopal Campus Ministry Student Food Pantry
- FOOD for Lane County
- Greenhill Humane Society
- Halfway House Services
- Junction City Local Aid
- Lane Community College

- Lane County
- Lane Independent Living Alliance
- Lane Transit District
- Love INC
- McKenzie Surgery Center
- Mohawk/Marcola Disaster Response
- New Hope Baptist Church
- Northwest Youth Corps
- Pearl Buck Center
- Serenity Lane
- ShelterCare
- SnoTemp Cold Storage

- South Lane Mental Health
- Southeast Neighbors
- St. Vincent de Paul
- The Arc Lane County
- The Salvation Army
- United Way of Lane County
- White Bird Clinic
- Willamette Family
- University of Oregon
- Red = Government
- Green = Non-profit
- Blue = Business

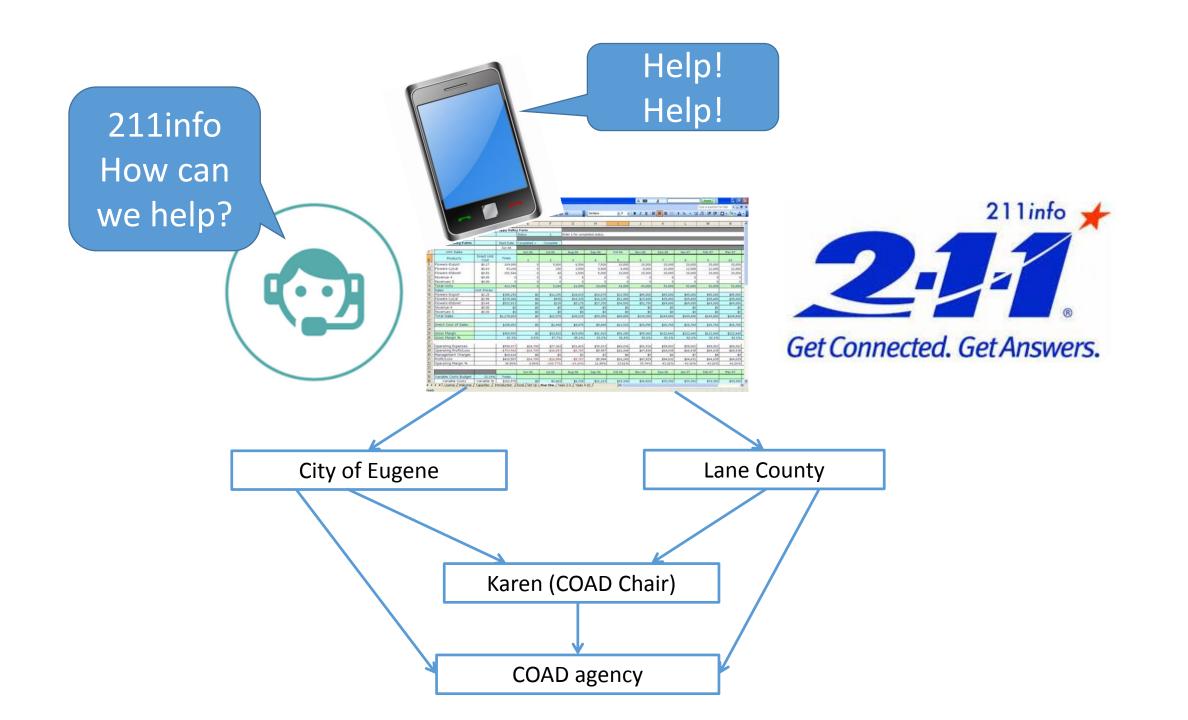
### COAD ACTIVATION IN ICE STORM



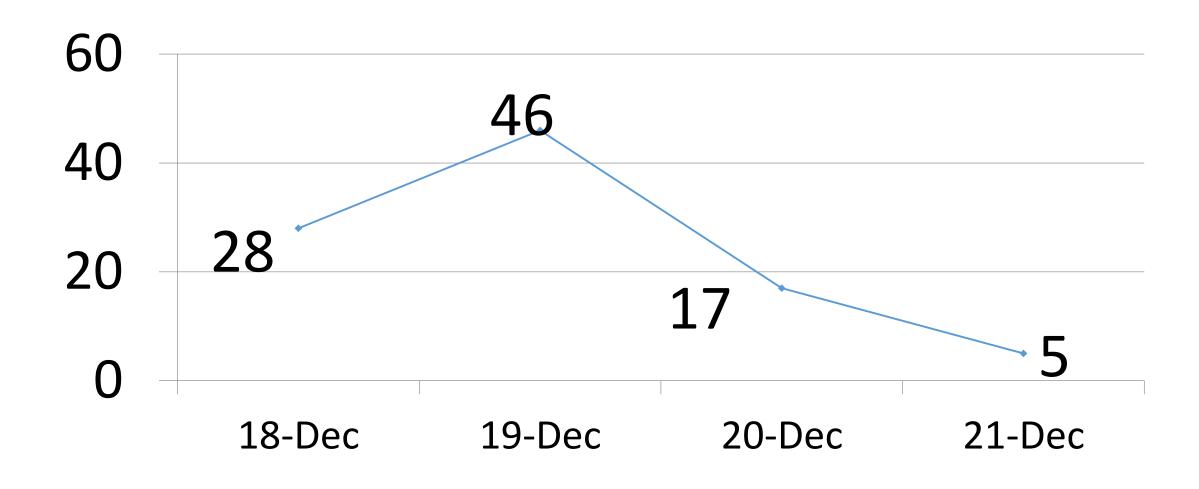
OMG! There is a big ice storm coming!

OK, We'll be glad to help!

Photo Courtesy of Food for Lane County



### 211info - NUMBER OF CALLS



## SERVICES PROVIDED









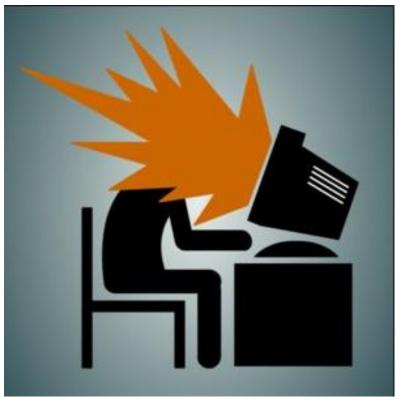




## LESSONS LEARNED







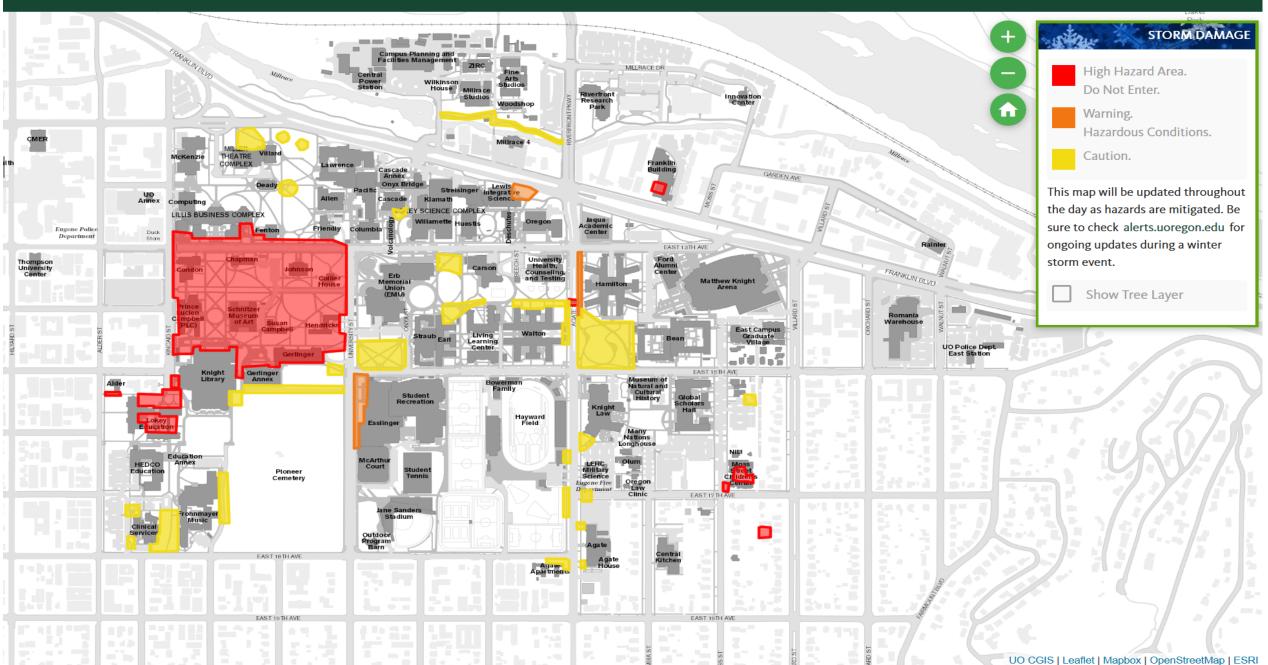
### UNIVERSITY OF OREGON

- Kelly McIver
- Public Information Officer

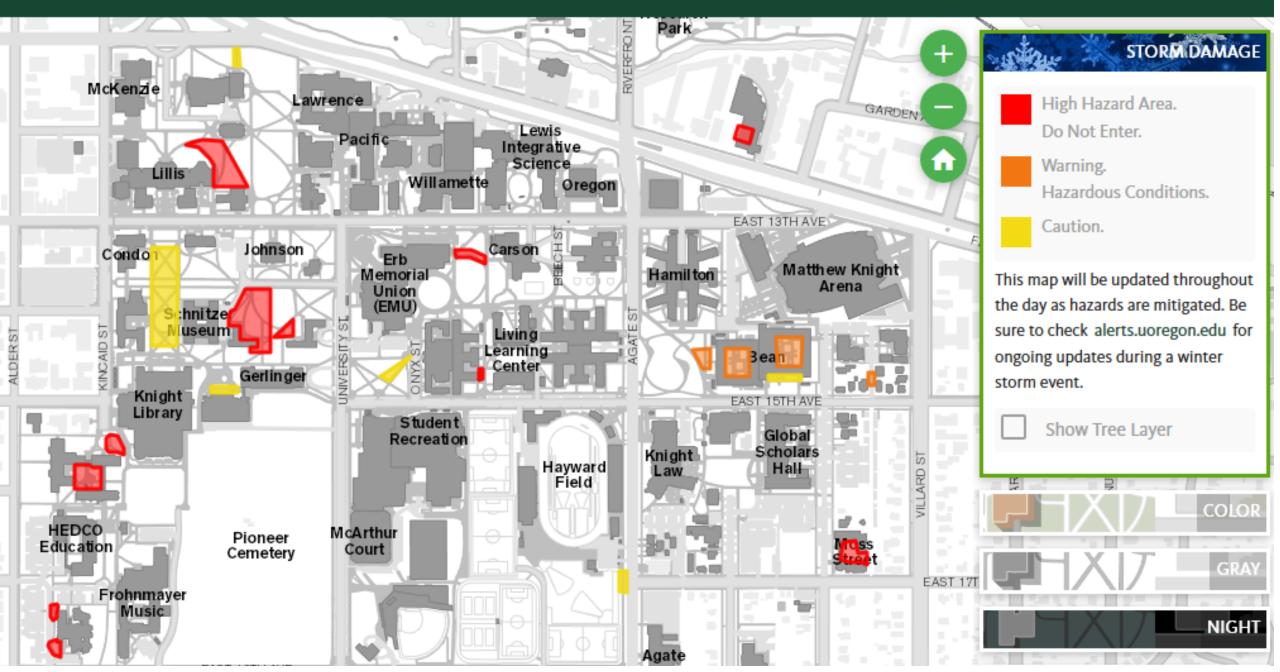
Photos courtesy of University of Oregon Environmental Health and Safety Staff



0 <b>=</b> i	System	Status	IMT Lead	Comments	Action Items
1 0	ESSENTIAL SERVICES			January 07, 2017 Ice/Snow Storm	ACTION Items
2	■ FACILITIES & INFRASTRUCTURE	STATUS	IMT Lead for reporting & tracking:	COMMENTS: (If not fully operational/functional, give location, reason, and estimated time/resources for necessary repair. Identify who reported or inspected.) ALL STATUS REPORT NEED TO HAVE A DATE AND TIME STAMP (e.g. 0100   12-16) and end who is reporting (LeDuc).	Please post the actions taken to remedy service issues. Once actions are complete please note that in the action statement (complete) and make the appropriate change in the status column (Red, yellow, green).
3	EXAMPLE: Caffeination systems	•	Le Duc	0700   01-07 Espresso maker has failed @ 0500hrs	- Crews are working on repairs. Estimated repair time1 hour
4	□ CAMPUS GROUNDS	•	Budzik; Carroll	https://map.uoregon.edu/winter-conditions	
5	Campus Roadways	•		$1245 \mid 01\text{-}08$ melting and loosening ice; increasing clearing, some slick spots remain	sanding streets and parking lots
6	Campus Walkways	•	Carroll	$1245 \mid 01\mbox{-}08$ melting and loosening ice; increasing clearing, some slick spots remain	8 Facilities employees shoveling, and sanding
7	Trees and Landscaping	•		no reported hazards	
8	ENERGY & UTILITIES	•	Hardenbrook	1030   01-08 Utility Systems Ops Normal. 1000   01-07 Utility Systems Ops Normal.	
9	Electrical Power,Main Campus Distribution System from CPS	•		1030   01-08 Power from EWEB remains stable to the main campus substation. 1230   01-07 No power fluctuations/sags from the incoming EWEB feed. Ops Normal.	
10	Electrical Power, Backup Generator	•		ops normal	
11	Natural Gas and Diesel Reserves	•		ops normal	
12	Campus: Tunnel System	•		ops normal	
13	Steam & Chilled Water	•		ops normal	
14	EWEB Power to Campus	•		ops normal	
15	Water Distribution Systems	•		ops normal	
16	■ BUILDING SYSTEMS	•	Budzik; Ward; Pedrola; Hansen		
17	Building: Sanitation Systems	•	Budzik	All systems are operating normal	
18	HVAC Systems	•	Budzik	All systems are operating normal	
19	Buildings: Electrical Power	•	Budzik	All systems are operating normal	
20	Sump Pumps	•	Budzik	All systems are operating normal	
21	Building Elevators	•	Budzik	All systems are operating normal	
22	Hazardous Waste Collection System	•	Budzik	All systems are operating normal	
	Door Locking Systems		Hansen	1233   01-08 - AMAG access control systems are operating normally.	



#### Storm Damage as of 12/22 9:30AM







### SPENCER BUTTE NEIGHBORHOOD

- Dr. Geoff Simmons
- Spencer Butte neighborhood location



### STRUCTURAL & PROPERTY DAMAGE



### ROAD CLOSURES & POWER OUTAGES



### TABLE SHARING



Photo courtesy of Dr. Geoff Simmons

- Introduce yourselves, assign a note taker
- Share lessons learned with each other
  - What went according to plan?
  - What challenged your plans?
- Tips that may be helpful to the wider business community for next time
- Please take notes to be added (anonymously) to the slide show when posted to the website

## TABLE SHARING WHAT WENT ACCORDING TO PLANS?

- Tools to share restoration information, such as Basecamp, work well for those who use them and more agencies intend to use those tools in the future (Note that each November the LPC training includes orientation for a community Basecamp website that local agencies use to coordinate and communicate during inclement weather)
- Training and staging for emergency work went well but more training is needed in specific ICS protocols to enhance interagency cooperation
- GIS and field mapping tools proved to be very helpful

## TABLE SHARING WHAT CHALLENGED YOUR PLANS?

- Business sector
  - Workforce communication
    - Road closures, access to workplace
    - Production slow down or stoppage
    - Reporting to work expectations, problems on the home front
  - Trucking problems for supplies and sending goods to market

## TABLE SHARING WHAT CHALLENGED YOUR PLANS?

- Government sector
  - Cities were contacted to help rural residents with large quantities of water for livestock (power outages, frozen well heads)
    - Need to identify water sources for livestock ahead of disaster
  - Needed to purchase emergency response equipment and supplies during the storm
    - Need to implement annual fall inventory and equipment readiness testing
    - Need to establish more that one supplier
  - Contractors were not always as available as expected
    - Local contractors were great
    - Out of town contractors were expensive

## TABLE SHARING TIPS TO PREPARE FOR NEXT TIME

- Yes, there will be a next time! This is the second big storm in three years. Extreme weather events are becoming the new normal. We need to acclimate people to this and encourage a culture of household and business preparedness. We need to emphasize winter weather preparedness rather than only preparing for Cascadia Subduction Zone earthquake.
- Underground utilities would mitigate power outages (This infrastructure upgrade is noted in the Natural Hazard Mitigation Plan to help make possible Federal grant monies available)
- Add downed power line safety to CERT training (for example, EWEB Wire Watch curriculum)

## TABLE SHARING TIPS TO RESPOND BETTER NEXT TIME

- Some agencies have more advanced tools than others, this presents a coordination opportunity and challenge
- Some agencies were closed which could have made staff available to other agencies, a coordination opportunity
- Possibly have high school students help with clean up (coordinated by a non profit agency)
- The utilities know which areas are affected and are in communication with every customer in need of power restoration, they provide a unique opportunity to provide a conduit for resources

## TABLE SHARING TIPS TO COMMUNICATE BETTER NEXT TIME

- Need for multiple channels of communication to connect people to resources, new online and cell phone tools are a big improvement, but not all customers have access
- We need a better outreach strategy to vulnerable populations
- Radio broadcasting might be utilized to share more information that school closures (for example, road closures)
- People need a clearer definition of what the utility means by "make safe"

### SPEAKER APPRECIATION

- A round of applause for our speakers today
- A shout out to the LPC Steering Committee for organizing this training
- Thank you for making time to participate today
- This slideshow will be soon be posted on the website
- Archive of 2016 training slideshows are on the website
  - preparelane.org



#### 2017 COALITION TRAININGS

**TOPIC: 911: The Next Generation** 

DATE & TIME: May 10, 2017 2:30 p.m. to 4 p.m.

**TOPIC:** Employee Preparedness to Assure Business Continuity

DATE & TIME: August 9, 2017 2:30 p.m. to 4 p.m.

TOPIC: Annual Winter Weather Briefing & Flu Forecast

DATE & TIME: November 8, 2017 2:30 p.m. to 4 p.m.