

Original



**Multnomah
County**

Emergency Management

**Multnomah County
Severe Weather SOP**

2016 (Final Draft)

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Purpose

The purpose of this Standard Operating Procedure (SOP) is to establish a coordinated response during severe weather events to ensure the health and safety of Multnomah County's diverse community.

Scope

The actions covered in this SOP attempt to address any activities related to severe weather event response within the boundaries of Multnomah County, to include public, private, non-profit, and faith based efforts, including:

- Education and information
- Engagement and support
- Provision of direct services

For inclement weather:

This SOP also describes the process for an informed delayed opening or closure of Multnomah County facilities and operations as a result of severe weather.

Authorities and References

The following are applicable plans, authorities and guidance documents relevant to this SOP.

Local

- Multnomah County Emergency Operations Plan ([Link](#))
- Multnomah County Code Vol. 1: General Ordinances Chapter 25
- [Multnomah County Personnel Rule 3-15 Inclement Weather and Administrative Closures](#)

State/Federal

- [Robert T. Stafford Disaster Relief and Emergency Assistance Act](#), Public Law 93-288, as amended, 42 U.S.C. 5121 et seq.
- Homeland Security Presidential Directive-5 (HSPD-5)
<http://www.dhs.gov/publication/homeland-security-presidential-directive-5>
- National Incident Management System. Department of Homeland Security. December http://www.fema.gov/pdf/emergency/nims/NIMS_core.pdf
- National Response Framework. Department of Homeland Security. January 2008. <http://www.fema.gov/pdf/emergency/nrf/nrf-core.pdf>
- Americans with Disabilities Act of 1990, as amended.
<http://www.ada.gov/pubs/ada.htm>

Situation and Assumptions

All Extreme Weather Events

1. The National Weather Service (NWS) is the primary source for weather information.
2. There will be sufficient warning time prior to an Excessive Heat or Cold Event provided by the National Weather Service in order to implement any planned activities as depicted in this SOP.
3. Temperature patterns can vary greatly across Multnomah County. Because of this variance, it is important cities monitor their local weather situation.
4. People with disabilities and those with access and/or functional needs may require special emergency response considerations to ensure emergency warning systems and response resources are fully accessible.
5. The Emergency Operations Center (EOC) may or may not be activated in support of an event. EOC activation will be determined based on the scope and scale of the event.
6. Electronic communications utilizing information technology systems will be compliant with Section 508 of the Rehabilitation Act.
7. All printed public education material produced to support this SOP for distribution to the general public will be available in accessible formats.
8. Lack of transportation can be a barrier to accessing services.
9. Not wanting to leave pets can create a barrier to accessing services.
10. Power outages that last for an extended period of time can create significant hardship on some segments of the community. These hardships may need to be addressed through the activation of the EOC.

Extreme Heat Events

1. Many homes across Multnomah County do not have air conditioning, including HUD facilities, nor have they been designed to capitalize on passive cooling techniques.
2. Excessive heat emergencies develop slowly and may take a number of days of oppressive heat to have a significant or quantifiable impact.
3. The effect of heat on the human body is cumulative. Over time, the human body becomes less resilient to heat stresses and more prone to heat exhaustion and / or exacerbation of other existing medical conditions.
4. As people progress through heat related symptoms, their judgment can become impaired.
5. Power outages may occur during extreme heat periods due to the increased use of air conditioning and the subsequent overloading of the electrical delivery system.
6. The hottest time of the day in Multnomah County is generally 14:00 hrs – 20:00 hrs (2:00pm – 8:00 pm).
7. Older adults, babies and young children, people working outdoors, and people on specific medications are at greatest risk.

Inclement Weather (Cold)

1. Power outages may result from downed power lines during snow and ice events.
2. Access roads and streets may be blocked by debris or rendered impassable due to snow and/or ice.
3. As people progress through cold related symptoms (hypothermia), their judgment can become impaired.
4. The coldest time of the day in Multnomah County is generally 00:00 – 08:00 (Midnight – 8:00 am).
5. There are few places people can go to warm up overnight.
6. People without shelter are at greatest risk.

Significant Wind Events

1. Power outages may result from downed power lines during strong wind events.
2. Strong wind events when the ground is saturated can cause significantly more damage.
3. Tornadoes occur infrequently in the Pacific Northwest.
4. The actual formation/location of tornadoes are difficult to predict and therefore tornado warnings may be issued when a tornado is sighted or reported resulting in little to no advance lead time.

Flooding

1. Isolated areas across Multnomah County are prone to flooding.
2. Significantly high precipitation can cause ground movement (mudslides/landslides) as well as flooding.

Background

Multnomah County generally has a temperate climate. However, during summer and winter months, temperatures can spike or fall precipitously creating a life safety hazard. Individual departments, agencies, and organizations have been working collaboratively to address the risks posed by severe weather with a focus on our functional and access needs populations. During winter months, Multnomah County Department of County Human Services, Community Services Division, in partnership with Portland Housing Bureau, coordinates warming centers for people without shelter. During summer months, Multnomah County Department of County Human Services, Aging, Disabilities and Veteran Services Division, coordinates extended hours of operation at Senior Centers to provide cooling options for seniors and those with disabilities.

Multnomah County Office of Emergency Management facilitates Situational Awareness Calls for both excessive heat and inclement weather, and when thresholds are reached, for other severe weather incidents.

Concept of Operations

This plan outlines the thresholds for activation during excessive heat and inclement weather events. These thresholds trigger a situational awareness process that is designed to assist the county in understanding the scope and potential of the hazard as well as to compile the activities being implemented to mitigate the harmful impact of that hazard. If it is decided the current level of response is not commensurate with the risk, follow up actions will be determined.

In some instances, the situational awareness process may result in decisions supporting county-wide operations. Specific roles and responsibilities that county departments and our partner agencies and organizations may need to consider are highlighted beginning on Page 9.

Thresholds for Activation

Excessive Heat

This plan has four thresholds that generate actions in response to extreme heat:

Threshold 1: The first calendar day of the year when the temperature is forecasted to reach 90 degrees or above.

Threshold 2: The temperature is forecasted to reach 95 degrees for at least two consecutive days.

Threshold 3: The temperature is predicted to reach 90 degrees or greater for five or more days.

Threshold 4: Any time deemed necessary by the Director of MCEM or their designee. County departments or partners may also request the plan be activated. Requests should be made to the Director of MCEM.

Inclement / Cold

This plan has two thresholds that generate actions in response to inclement weather:

Threshold 1: Snow, sleet or ice is forecasted to accumulate anywhere in the county.

Threshold 2: Any time deemed necessary by the Director of MCEM or their designee. County departments or partners may also request the plan be activated. Requests should be made to the Director of MCEM.

Significant Wind Events

This plan has three thresholds that generate actions in response to significant wind events:

Threshold 1: Wet season or when trees are in leaf: sustained wind speeds of 30 mph or greater or wind gusts 45 mph or greater (this is largely due to saturated soils).

Threshold 2: Dry season: sustained wind speeds of 40 mph or greater or wind gusts 58 mph or greater.

Threshold 3: Any time deemed necessary by the Director of MCEM or their designee. County departments or partners may also request the plan be activated. Requests should be made to the Director of MCEM.

Flooding

This plan uses the National Weather Service's warning, watch, and advisory notifications¹ as thresholds that generate actions:

Threshold 1: Initiation of a Flood Advisory, Flood Watch, or a Flood Warning. There are two rivers in Multnomah county the NWS issues flood warnings for: Johnson Creek (flood stage = 11 ft) and Willamette River near Portland (flood stage = 18 ft).

Threshold 2: Any time deemed necessary by the Director of MCEM or their designee. County departments or partners may also request the plan be activated. Requests should be made to the Director of MCEM.

Situational Awareness Calls

If a threshold is met for any hazard, MCEM will initiate a call with key departments and partners. The MCEM Duty Officer will coordinate and send an email, text message, and calendar invite notice re these calls.

- Extreme Heat calls will occur at 7:30 a.m. on the day prior to the start of extreme heat unless otherwise specified. See **Appendix A Situational Awareness Calls – Extreme Heat**
- Inclement Weather calls will occur at 5:00 a.m. on the day the inclement weather event is forecasted to occur, unless otherwise specified. These calls will end promptly at 5:30 a.m. See **Appendix B Situational Awareness Calls – Inclement Weather**
- General Severe Weather calls will be scheduled to occur at 8:00 pm the night before the weather event is forecasted to occur, unless otherwise specified. The Inclement Weather agenda will be used for this call. See **Appendix B Situational Awareness Calls – Inclement Weather**.

Call in information will be sent via e-mail and/or text, to the full Severe Weather List. See **Appendix E** by 12:00 p.m. the day prior to forecasted severe weather. Calls will be kept short (20 to 30 minutes). Departments and partners should call in prepared to discuss what decisions they have made, or decisions they are considering. Expected participants are listed in **Appendix A** (heat event) or **Appendix B** (inclement weather event).

¹ See Flood Watch and Warning tab on: <http://www.floodsafety.noaa.gov/index.shtml>

Roles and Responsibilities

County Departments

Chair's Office

1. The Chair or Chair's Designee will determine whether to authorize the recommended delay, partial or full closure as a result of severe weather.

Multnomah County Emergency Management, MCEM

1. Maintain a high level of situational awareness and monitor weather.²
2. Assess the potential impacts of predicted weather, and make the appropriate notifications to ensure response partners are aware of the situation (the 24/7 MCEM Duty Officer checks the weather forecast at the beginning of each shift). Response partners are listed in **Appendix E**. Anticipated participants for excessive heat events are listed in **Appendix A** and for inclement weather events, **Appendix B**.
3. Maintain an up to date contact list of response partners.
4. Organize and coordinate Multnomah County's response to significant weather events.
5. Activate the EOC, at the appropriate level, when necessary.
6. Assist response partners identify (potential) heat or inclement weather related needs, and assist them in organizing their personnel to respond.
7. Produce Situation Reports as conditions and activities warrant. Situation reports will contain information specific to: weather conditions and forecasts, activities of both governmental and non-governmental agencies, expectations and concerns of response partners, planned actions for upcoming operational periods.
8. Coordinate county wide excessive heat conference calls. Notes from these calls may serve as Situation Reports.
9. Identify and coordinate the filling of gaps in services. Utilize available partner agencies to assist with communication and well-being checks for at-risk populations, including elderly, disabled, and home-bound individuals through home visits and phone calls.
10. When needed/requested, assist in the coordination of staffing for cooling and warming centers.
11. Distribute cooling center location and questionnaire to Response partners listed in **Appendix A** (excessive heat event) prior to conference call. Provide completed **complied questionnaire** to Communications Office.
12. Notify organizations and county agencies tasked with additional duties in this SOP to refer to their checklists for roles and responsibilities.
13. Provide up to date information regarding severe weather related incidents and/or actions to Communications Office.
14. Notify County Management of current conditions.
15. Assist with the coordination of volunteers if needed.

² (<http://www.weather.gov/>) This source of forecasting is generally the most accurate and is the basis for other organizations analytics (<http://www.weather.com/> utilizes the data provided by the National Weather Service and occasionally is more accurate with their forecasts).

16. Assist with distribution of donations, if available or established, by providing information regarding established service centers and program activities coordinated through partner agencies and organizations.
17. Post pertinent information to MCEM website, WebEOC, and MCEM social media accounts.
18. Maintain contact with utilities to determine power availability and ensure up to date outage information. Encourage utilities to provide information/messages for inclusion in information and outreach efforts. PGE's outage information can be found at https://portlandgeneral.com/safety_outages/default.aspx
19. Prepare an After Action Report with corresponding Improvement Plan. Monitor progress on the improvement plan and report to DRMs.
20. Continue to disseminate information to county departments and partners throughout event.
21. Update County-Wide Inclement Call Line (See **Appendix C**).

Office of the Multnomah County Attorney

1. Participate in Situational Awareness Call when possible.
2. Provide legal resources to the Chair and internal partners, identify legal risks and interpret applicable rules and laws.
3. Advise County Departments and offices on legal issues as they arise.

Multnomah County District Attorney's Office

1. Participate in Situational Awareness Call when possible.
2. Provide Input or update on DA operation's needs as appropriate.
3. Coordinate with Trial Court Administration for legal process needs if courts open late or close.
4. Update District Attorney's Emergency Information Line message for DA employees

Department of Community Services, DCS

Animal Services

1. Provide support for cooling and warming centers wishing to welcome pets.
2. Reach out to and provide centers with information and guidance regarding: proper housing of animals (crates and kennels), proper safety requirements (muzzling and the use of leashes, etc), and proper sanitation.
3. Assign an Officer to provide a ride for individuals with pets needing transportation to the centers when needed (based on availability of staffing).
4. Provide information and guidance to the Communications Office regarding animal safety and protection.
5. Review county website to ensure accuracy of pet related information.

Transportation – Roads and Bridges³

1. Update Web EOC on the conditions of County jurisdictional roads and bridges.
2. Perform coordination role with other transportation organizations to assess road/street conditions and report out during Situational Awareness Calls.

Inclement Weather

³ Sellwood, Hawthorne, Morrison, Burnside, Broadway, and Sauvie Island

3. Maintain roadways and sidewalks: remove snow from lift spans and stairs and sidewalks, spread “ice melt” on stairs and sidewalks if needed, spray bike lanes and multi use paths/sidewalks with CMA prior to snow/ice events.

Excessive Heat

4. Spray Hawthorne lift span with cold water to prevent it from sticking in its seats due to thermal expansion of the lift span steel.

Communications Office

1. Issue a press release and post to Flash Alert. Provide guidance to public about how to prepare, and recommended precautions to take, during severe weather events. Guidance should include but not necessarily be limited to: preventative actions (for people and pets, how to access resources and assistance, recommended actions, and risks associated with the hazards).
2. At the recommendation of the Health Officer, issue a statement to schools to limit physical or outdoor activities.
3. Coordinate public information and press releases with other agencies. Release a press release incorporating all information received from other jurisdictions providing information to open cooling centers in impacted cities.
4. Ensure information is posted to the Multnomah County website and shared on county social media outlets.
5. Provide information to 211, ADRC, City I&R, and the Crisis Line.
6. Work with ODOT for reader board messaging on freeways to reduce travel during poor air quality days. Create proactive driving reduction messages (prior to entrance on roadways), coordinate with TriMet.
7. Work with the Language Access Coordinator to ensure vital documents, such as public alerts and press releases, are written in Plain Language, and are in accordance with **MCEM’s Language Access Policy**⁴
8. Work with subject matter experts to ensure messaging is trauma informed and takes into consideration the special actions that may be required for individuals with Access and/or Functional Needs.⁵

Libraries

1. Maintain up to date website with hours of operation.
2. Communicate resource needs, including Subject Matter Experts to MCEM.
3. Participate in Situational Awareness Conference Calls.

County Health Department, MCHD

1. Emergency Preparedness and Response (EP&R) will coordinate with appropriate divisions to ensure increased surveillance efforts pertaining to deaths and injuries related to severe weather. EP&R will provide analyzed data reports to MCEM Duty Officer.
2. EP&R will coordinate with HPP to ensure area hospitals are advised of the severe weather response efforts.

⁴ MCEM’s Language Access Policy is currently being drafted.

⁵ Subject Matter Experts include but are not limited to: Oregon Office of Disability and Health, Multnomah County Health - Mental Health and Addictions Division, Multnomah County Department of County Human Services - Developmental Disabilities, Schools Uniting Neighborhoods, and Aging, Disability, and Veterans’ Services Divisions.

3. EP&R will coordinate with HPP to ensure emergent and pre-existing preparedness/mitigation materials and resources created are shared with hospitals, and that they are encouraged to post them across their campuses.
4. Provide assistance to the Communications Office in the development of press releases as they relate to the Health Department and its services.
5. Post and distribute severe weather information and guidance materials at health offices and clinics.
6. EP&R will gather information regarding any increase in monitoring of vulnerable clients including those who receive in home services and report during Situational Awareness Conference Calls. EP&R will ensure that materials regarding resources available are provided to those who make contact with vulnerable clients.
7. Provide public outreach to targeted groups in coordination and collaboration with MCEM and the Communications Office.

Department of County Human Services, DCHS

1. Ensure Information and Assistance (I & A) ADRC Call Center is updated with significant weather resource information.
2. Post and distribute information and guidance materials to DCHS staff, branch locations and partner organizations.
3. Identify and monitor those most impacted by weather event.

Excessive Heat (see also *DCHS Cooling Center SOP*)

4. Will notify MCEM Duty Officer and Multnomah County Communications Office, MCCO when extended cooling hours are being considered.
5. Coordinate the operation of extended cooling hours, including informational flier about location, hours and days of operation to MCEM, MCCO and community partners.
6. Link "Help for when it's Hot" to DCHS website for coordination of services.
7. Request resources from MCEM for any unmet needs for program operation.
8. Coordinate the transportation needs of clients with partners.
9. Support the ongoing needs of our center partners.

Inclement Weather (Cold)

(see also: *Severe Weather Notification & Severe Weather Emergency Shelter For the Protection of Unsheltered People During Cold Weather*).

10. Community Services Division will notify MCEM Duty Officer when the activation of Warming Centers is being considered.
11. DCHS coordinates shelters and warming centers for families every night with no turn-away, as well as shelters and services for homeless youth. As weather worsens county contractors also add capacity for homeless youth.
12. Community Services Division will coordinate the operation of Warming Centers for families. The cities of Portland and Gresham open additional warming centers for single adults and couples during severe weather.
13. Community Services Division along with homeless service providers and the city will hold a joint call to update each other on census numbers, how things are going and to brainstorm problems or discuss mutual aid. Official requests then come from the cities to MCEM.
14. Community Services Division will provide Warming Center locations, and hours of operation to Communications Office, up to date information will also

be available at www.211info.org. Coordinate with MCEM to fill any unmet needs (volunteers, donations, etc).⁶

15. DCHS will complete check-ins during severe weather events (hot or cold) to ensure our contracted providers are not experiencing any issues at any of the facilities for homeless families or homeless youth.

Department of County Management, Central Human Resources

Inclement Weather (cold)

1. Provide guidance and interpretation for Multnomah County Personnel Rule 3-15 Inclement Weather and Administrative Closures and Multnomah County Collective Bargaining Agreements.
2. Provide assistance to the Communications Office and departments in the development of internal communications to ensure they are consistent with rules, collective bargaining agreements and past practices.
3. Participate in Inclement Weather conference call.

Sheriff's Office

1. Establish and maintain public safety for Multnomah County, unincorporated areas of Multnomah County, MCSO contracted municipalities and navigable waterways.
2. Utilize appropriate measures available to warn the public, government officials, and emergency personnel of potentially threatening or actual emergencies.
3. Ensure continued operations for correctional facilities and establish essential ingress and egress to the facilities for personal and transport vehicles and emergency response vehicles.
4. Ensure Correctional facilities invoked internal emergency operational plans for inclement weather/natural disaster(s).
5. Initiate contact and call out of MCSO emergency response personnel and essential employees.
6. Assist with transportation of essential employees for MCSO operations.
7. Establish traffic control and traffic coordination.
8. Provide resources for coordination for evacuation of threatened or damaged areas as requested.
9. Provide assistance to municipal police departments as resources allow.
10. Provide specialty team assistance as resources allow.
11. Perform all regularly assigned duties relating to the protection of life and property.
12. Implement ICS specific to MCSO operations and as a resource to Multnomah County Emergency Management.
13. Provide assistance and response to requests by public officials and Multnomah County Emergency Management.
14. Response and participate in the inclement weather conference call(s).

Department of County Assets, Facilities and Property Management

⁶ If a Multnomah County facility is being considered as a potential Warming/Cooling Center, DCA, Facilities and Property Management need to be engaged as early as possible to ensure accessibility, utility, and service (janitorial/security, etc.) changes.

1. Prepare building systems to accommodate increased usage through re-setting schedules and increased preventive maintenance measures; have response crews ready and available to address any specific building issues.
2. Provide report on status of facilities – any issues.
3. Maintain situational awareness regarding weather conditions and take steps to mitigate and/or prevent building damage.

Inclement Weather (cold)

4. Gather situation status information from FPM facility cameras, partners in MCSO & Roads, and FPM staff regarding snow accumulation at and near Multnomah County facilities.
5. Execute Inclement Weather Response Plan: Determine response priority; Dispatch response crews for snow shoveling and ice-melt application; Dispatch response crews for temporary signage placement & site assessments; Update Response Log.
6. Participate in Inclement Weather conference call.

Office of Diversity and Equity

1. Review planned actions to ensure they are adequate and accessible to meet the needs of our diverse community.
2. Participate in planning meetings to consider additional efforts, issues.

Partner Agencies, Organizations

NOAA/Weather Service

1. Provide detailed weather information for conference calls. Generate heat information reports and temperature tables.

Utilities

1. Provide information regarding programs in place to assist individuals with their cooling and heating needs.

TriMet

1. Activate emergency operations to keep transit service running at whatever level possible through the severe weather situation.
2. Alert riders about possible service impacts and provide safety information.
3. Alert riders about actual service impacts that have occurred.

Ride Connection

1. Identify available resources which may be utilized to assist with movement of older adults (60+) and people with disabilities and/or access or functional needs to cooling centers and warming centers.

211

1. Provide up to date information regarding severe weather support activities on website, texting (0900 – 1700), and telephone (24/7).
2. Participate in situational awareness conference calls when possible.
3. Collect frequently asked questions and submit to Communications Office.

Cities (Portland, Gresham, Troutdale, Fairview, Wood-Village, Sauvie Island, Corbett, Maywood)

1. Provide a list of activities aimed at providing relief from heat (work with parks, faith community, etc.).
2. Review Multnomah County website content for accuracy, provide updated information as needed.
3. Provide a list of Warming and/or Cooling Centers (addresses, hours of operation and contact information) to MCEM Duty Officer and 211.
4. Participate in situational awareness conference calls.
5. Communicate anticipated resource needs to MCEM Duty Officer as soon as possible.

Fire and/or EMS-AMR

15. Provide subject specific safety recommendations for waterways during extreme heat events to the Communications Office.
16. Assist with transportation during inclement weather:
 - a. People without shelter to Warming Centers
 - b. County Essential Staff to work sites (and home)

Metro

1. Participate in situational awareness conference calls when possible.
2. Provide a list of locations that could provide relief from heat.
3. Review Multnomah County website content for accuracy, provide updated information as needed.

Offices of Diversity and Equity (Portland, Gresham)

1. Review planned actions to ensure they are adequate and accessible to meet the needs of our diverse community.
2. Participate in planning meetings to consider additional efforts, issues.

Oregon Voluntary Organizations Active in Disaster, ORVOAD

1. Participate in situational awareness conference calls when possible.
2. Coordinate with Multnomah County Emergency Operations Center, EOC by providing liaison contact information or sending a representative to the EOC.
3. Gather information regarding the support activities of member organizations and provide briefing to MCEM Duty Officer via email, phone, or participation in situational awareness conference calls.
4. Help amplify messages related to severe weather on social media accounts, and contact with membership.
5. Gather frequently asked questions from membership and provide to the Communications Office.

Plan Development and Maintenance

This SOP is considered a working document evolving with each use. In addition to real world incidents, exercises, training, evaluation, management, and maintenance of this Annex will ensure appropriate changes are addressed.

Plan Maintenance - The Significant Weather SOP will be reviewed and revised every three years or following an actual or training event to ensure plan elements are valid and current. Multnomah County Office of Emergency Management will lead the responsible jurisdictions, agencies, and departments in reviewing and updating this SOP as required based on identified deficiencies experienced during real world incidents and exercises.

Training and Exercises - A well-developed training and exercise program is vital to ensuring overall readiness and preparedness. Training ensures personnel are prepared for their roles and responsibilities. Exercises test the capabilities, resources, and working relationships of responding agencies.

Each jurisdiction within Multnomah County is responsible for its own planning, training and exercises. Participation in Multnomah County Office of Emergency Management training and exercises is strongly encouraged.

References

- National weather service – Weather Related Fatalities:
<http://www.nws.noaa.gov/om/hazstats.shtml>
- FEMA Emergency Management Institute Independent Study Course IS-271.a, Anticipating Hazardous Weather & Community Risk, 2nd Edition, University Corporation for Atmospheric Research, September, 2012:
<https://training.fema.gov/is/courseoverview.aspx?code=is-271.a>
- Heat-Related Morbidity and Mortality. Centers for Disease Control and Prevention. Centers for Disease Control and Prevention, 29 Nov. 2010. Web. 11 Mar. 2014.
- Lyons-Eubanks, Kari, Matt Davis, and Arnaud Simon. "Climate Change and Public Health Preparation Plan." *Multnomah County Health Department*. N.p., Aug. 2013. Web. 11 Mar. 2014.
- "Climate Action Plan." *Planning and Sustainability*. The City of Portland, Oregon, Oct. 2009. Web. 11 Mar. 2014.
- "Climate and Health Program." *Centers for Disease Control and Prevention*. Centers for Disease Control and Prevention, 29 Nov. 2010. Web. 11 Mar. 2014.
- Multnomah County Department of County Human Services, DCHS Warming and Cooling Center Standard Operating Procedures, SOPs
- The City of Portland's *Severe Weather Notification & Severe Weather Emergency Shelter For the Protection of Unsheltered People During Cold Weather*

Resources

- Center for Disease Control and Prevention-Extreme Heat:
<http://emergency.cdc.gov/disasters/extremeheat/>
- Health department documents – guidance
- Multnomah County Websites ([Help for When it's Hot](#), [Cold Weather Reminder for Pets](#), and [Disaster Preparedness for Pets](#))
- Climate adaptation document(s)
- Environmental Protection Agency, EPA Excessive Heat Events Guidebook -
<http://www.epa.gov/heatisland/about/heatguidebook.html>
- Federal Emergency Management Agency (FEMA)
www.ready.gov <<http://www.ready.gov>>
- Oregon Health Authority Public Health Division – Preparedness
<https://public.health.oregon.gov/Preparedness/Pages/index.aspx>.
Preparedness 101 provides key tips on how to prepare yourself and your family for an emergency. Learn about potential hazards in Oregon and in your area.
- State of Oregon Department of Environmental Quality (DEQ)
www.deq.state.or.us/aji/ <<http://www.deq.state.or.us/aji/>> Air quality monitoring. Air quality may be affected by events including wildfires and other disasters.
- CDC - "Zombie" Preparedness
www.cdc.gov/phpr/zombies.htm <<http://www.cdc.gov/phpr/zombies.htm>> A humorous website to engage new audiences-especially young adults-with preparedness messages. The idea is that if you are prepared for a zombie attack, you're prepared for anything! This site includes a blog, posters, and a graphic novella that you can download.

Appendix A - Situational Awareness Call – Excessive Heat

Conference call Number is (877) 336-1829, Participant Code: 7189170; Host code (MCEM) 5121021.

Participants (listed in order of roll call):

- National Weather Service, NWS
- Multnomah County Health Department, MCHD
- Department of County Human Services, DCHS
- Department of County Assets, DCA Facilities and Property Management
- 211
- Oregon Voluntary Organizations Active in Disaster (Red Cross and others)
- Department Community Services, Animal Services
- Libraries
- Corbett
- Fairview
- Gresham
- Maywood
- Portland
- Sauvie Island
- Troutdale
- Wood-Village
- PGE
- Multnomah County Sheriff
- TriMet
- Multnomah County Communications Office

Agenda

- Roll Call
- NWS - Weather Briefing
- Department Report Out (highlighting planned activities and unresolved issues)
 - Multnomah County Health Department, MCHD
 - Department of County Human Services, DCHS
 - Libraries
- Cities
 - Corbett
 - Fairview
 - Gresham
 - Maywood
 - Portland
 - Sauvie Island
 - Troutdale
 - Wood-Village
- Utilities
- Multnomah County Sheriff
- TriMet
- Multnomah County Communications Office

- Any additional / final comments or any necessary decisions
- Next conference call/next steps

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Appendix B - Situational Awareness Call - Inclement Weather

Conference call Number is (877) 336-1829, Participant Code: 7189170; Host code (MCEM) 5121021. **Participants (listed in order of roll call):**

-
- Chair's Office
- Department of County Management (DCM)
- Auditor's Office
- Communications Office
- County Attorney
- District Attorney
- Library
- Multnomah County Health Department (MCHD)
- Multnomah County Sheriff's Office
- Information Technology (IT)
- Department of County Assets (DCA) Facilities and Property Management
- Department County Human Services Department (DCHS)
- Department of Community Justice (DCJ)
- Department of Community Services (DCS)
- State Courts
- National Weather Service
- Utilities
- TriMet
- ODOT / PBOT

Agenda

- Roll Call
- Situation Report:
 - Current & forecasted weather (NWS)
 - Road status (ODOT, PBOT, County Roads, MCSO)
 - Transit Status: buses, MAX and WES Commuter Rail (TriMet); Portland Streetcar and Portland Aerial Tram (PBOT)
 - Status of school districts, municipalities, and other agencies (MCEM)
 - DCA - Facilities
 - DCHS - Warming Center status
 - DCS - Transportation
 - Sheriff's Office - Courts/Corrections
 - State Courts
- Department Status/Needs:
 - Library
 - State Courts
 - DCHS
 - MCHD
- Last request for other information/input before decision
- MCEM: Recommendation for Closure/Late Opening
- Chair's Decision

- Clarifying questions/comments
- MCEM & Chair confirm actions/decisions
- Adjourn

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Appendix C – Instructions for Updating County-Wide Inclement Weather Line

MCEM Duty Officer is responsible for updating the county-wide inclement weather line.

Instructions

- Step 1: Call x88055 from a VOIP phone or 503.988.8055 from any other phone.
- Step 2: At opening prompt, enter your personal voicemail ID (5 digit County extension) followed by the # sign.
- Step 3: Enter your personal voicemail PIN followed by the # sign.
- Step 4: Enter 84633 followed by the # sign.
- Step 5: Follow instructions to change the standard greeting.
- Step 6: After changing the standard greeting, press the * (star) key and hang up.

To request access changes, contact the IT Help Desk at: ithelpdesk@multco.us or call 503-988-4357. The following people have system access to change the message on the county-wide Inclement Weather Line (x84633):

Department/Division	Name
MCEM	Tina Birch
MCEM	Steve Bullock
MCEM	Alice Busch
MCEM	Luis Hernandez
MCEM	Chris Voss
Communications Office	Mike Pullen

Standard Greeting (no event):

You have reached the Multnomah County Inclement Weather line for Multnomah County staff. At this time there are no inclement weather events and County services are running on normal schedules.

Appendix D - Links for Situational Status

MCEM Duty Officer is responsible for researching information from the following sources to provide updated information during the Situational Awareness Calls.

Weather/Flooding

- WFO Portland Watches and Warnings: <http://forecast.weather.gov/hazards/pqr>
- 10-day outlook for Precipitation and Temperatures from the NOAA/NWS Northwest River Forecast Center: http://www.nwrfc.noaa.gov/weather/10_day.cgi
- River Gauges and Forecasting - NWS Advanced Hydrologic Prediction Service <http://water.weather.gov/ahps2/forecasts.php?wfo=pqr>http://www.nwrfc.noaa.gov/weather/10_day.cgi
- Atmospheric Rivers: http://www.esrl.noaa.gov/psd/psd2/coastal/satres/data/html/ar_detect_gfs.php
- AHPS observed and forecast river levels and flood impacts info, Portland: <http://water.weather.gov/ahps2/index.php?wfo=pqr>
- Current weather and rainfall totals: <http://www.wrh.noaa.gov/mesowest/gmap.php?map=pqr>

Ice Prediction

- National Weather Service, Weather and Hazards Data Viewer: http://www.wrh.noaa.gov/map/?obs=true&wfo=pqr&basemap=OpenStreetMap&boundaries=true,false&obs_popup=true

Transportation

- ODOT Portland Metro Road Conditions: <http://tripcheck.com/TextPages/RCreport.asp?curRegion=14>
- TriMet Service Alerts: <http://TriMet.org/alerts/index.htm>
 - Real-time TriMet Map: <http://www.pdxlivebus.com/>
- PDX Airport Travel Advisories posted to main page: http://www.portofportland.com/PDX_Home.aspx?ep=94b712b2577f461baddde1d9e6e127df
- PDX Airport Delayed or Cancelled Flights: http://www.portofportland.com/flights_search.aspx?TimeFrom=0&TimeTo=24&Date=Today&FlightNumber=&FlightType=B&Airline=&City=&FilterType=offSchedule
- Real-time Air Traffic Map: <http://www.flightradar24.com/45.59,-122.6/8>
- County and PBOT twitter accounts post road closures for public: <https://twitter.com/multco> and <https://twitter.com/PBOTinfo>
- Real-time Marine Traffic Map: <http://www.marinetraffic.com/en/>

Public Buildings

- State of Oregon Government Building Closures: http://www.oregon.gov/DAS/pages/bldg_close/index.aspx
- City of Portland posts to main page: <http://www.portlandonline.com/>
- Gresham posts Winter Weather info including road and school closures: <http://greshamoregon.gov/winterweather/>
 - Gresham News Releases: <http://greshamoregon.gov/news/news.aspx>
- Troutdale: <http://www.ci.troutdale.or.us/>
- Wood Village: <http://www.ci.wood-village.or.us/>
- Public Schools: <http://publicalerts.org/multnomah-county>
- Federal Agency Closures in Oregon: http://oregonfeb.us/ofeb_eppages/hazincidents.htm

Power

- Pacific Power Large-Scale Outage Information for Oregon: <https://www.pacificpower.net/ed/po/ooi.html>
- PGE Outage List: Multnomah County: http://www.portlandgeneral.com/safety_outages/outages/outage_updates/outage_detail.aspx?county=multnomah

Water

- Portland Water Bureau Alerts are posted to their blog: <http://www.portlandoregon.gov/water/39678>

Community Services

- 211Info: <http://211info.org/winter-news>

Appendix E – Inclement Weather Team

First Name	Last Name	Organization/Department/Division	Title
Troy	Hammond	211 Info	Director
Monte	Reiser	MCSO	Captain LE Ops
Dan	Staton	MCSO	Sheriff
Joel	Wendland	MCSO	Lieutenant LE Operations
Linda	Yankee	MCSO	Chief Deputy Business Services
Wanda	Yantis	MCSO	Fiscal Manager
Raimond	Adgers	MCSO - Corrections	Commander
Mike	Shults	MCSO - Corrections	Chief Deputy
Tim	Moore	MCSO - Law Enforcement	Chief Deputy
Jason	Gates	MCSO - Law Enforcement/Investigations	Commander
Scott	Anderson	MCSO - Operations	Interim Chief of Police, City of Fairview and Commander - Law Enforcement Operations MCSO
Travis	Gullberg	MCSO - River Patrol	Lieutenant
Steve	March	MultCo Auditor's Office	County Auditor
Judy	Rosenberger	MultCo Auditor's Office	Auditor
Mark	Ulanowicz	MultCo Auditor's Office	Auditor
Nancy	Bennett	MultCo Chair's Office	Chief of Staff
Deborah	Kafoury	MultCo Chair's Office	Chair
David	Austin	MultCo Communications Office	Director
Mike	Pullen	MultCo Communications Office	PIO
Craig	Bachman	MultCo Department of Community Justice, DCJ	
Kimberly	Bernard	MultCo Department of Community Justice, DCJ	
Scott	Taylor	MultCo Department of Community Justice, DCJ	
Tom	Hansell	MultCo Department of Community Services, DCS	Division Director
John	Niiyama	MultCo Department of Community Services, DCS	
Kim	Parsons-Anderson	MultCo Department of Community Services, DCS	
Kim	Peoples	MultCo Department of Community Services, DCS	Director
Tracey	Massey	MultCo Department of County Assets, DCA	Manager
Sherry	Swackhamer	MultCo Department of County Assets, DCA	Director
Liz	Rodriguez	MultCo Department of County Assets, DCA - Facilities and Property Management	Operations Manager
Macy	Langley	MultCo Department of County Assets, DCA - Facility and Property Management	Dispatch Lead
Bob	Leek	MultCo Department of County Assets, DCA - IT	IT
IT	Operations	MultCo Department of County Assets, DCA - IT	
Kaleb	Smith	MultCo Department of County Assets, DCA - IT	IT Help Desk Ops Manager
Gary	Wohlers	MultCo Department of County Assets, DCA - IT	IT
Rose-Ellen	Bak	MultCo Department of County Human Services, DCHS	Community Services

First Name	Last Name	Organization/Department/Division	Title
Peggy	Brey	MultCo Department of County Human Services, DCHS	Aging and Disabilities and Veterans Services Division Director, ADVSD
Keith	Falkenberg	MultCo Department of County Human Services, DCHS	
Mary	Li	MultCo Department of County Human Services, DCHS	Division Manager Policy and Innovation Center
Jennifer	Masotja	MultCo Department of County Human Services, DCHS	Emergency Preparedness Coordinator
Liesl	Wendt	MultCo Department of County Human Services, DCHS	Director
Karyne	Kieta	MultCo Department of County Management, DCM	
Marissa	Madrigal	MultCo Department of County Management, DCM	Chief Operating Officer, COO - Director
Travis	Graves	MultCo Department of County Management, DCM HR	HR Director
Jodi	Erickson	MultCo District Attorney's Office, DA	
Jeffrey	Howes	MultCo District Attorney's Office, DA	Deputy District Attorney First Assistant
Karl	Kosydar	MultCo District Attorney's Office, DA	
Rodney	Underhill	MultCo District Attorney's Office, DA	District Attorney
Allen	Vogt	MultCo District Attorney's Office, DA	District Attorney Administrative Manager
Tina	Birch	MultCo Emergency Management, MCEM	Emergency Operations Specialist
Steven	Bullock	MultCo Emergency Management, MCEM	Business and Community Preparedness Coordinator
Alice	Busch	MultCo Emergency Management, MCEM	Division Chief of Operations
Lisa	Corbly	MultCo Emergency Management, MCEM	Equity Senior Planner
Luis	Hernandez	MultCo Emergency Management, MCEM	Emergency Manager, Planning
MultCo	Officer	MultCo Emergency Management, MCEM	Duty Officer
Chris	Voss	MultCo Emergency Management, MCEM	Director
Joanne	Fuller	MultCo Health Department, MCHD	Department Director
Wendy	Lear	MultCo Health Department, MCHD	Deputy Director of Operations
Uei	Lei	MultCo Health Department, MCHD	Emergency Manager
Becky	Cobb	MultCo Library	Deputy Director
Shawn	Cunningham	MultCo Library	
Cindy	Gibbon	MultCo Library	
Rita	Jimenez	Multco Library	Neighborhood Libraries Director
Christopher	Linn	MultCo Library	Safety and Security Manager
Vailey	Oehlke	MultCo Library	Director
David	Ratliff	Multco Library	Central Library Director
Tyree	Wilde	NOAA's National Weather Service	Warning Coordination Meteorologist
David	Blankfeld	Office of the Multnomah County Attorney	Senior Assistant County Attorney
Jenny	Linn	Office of the Multnomah County Attorney	County Attorney

First Name	Last Name	Organization/Department/Division	Title
Neal	Japport	Oregon Justice Department/MultCo Circuit Court	Deputy Trial Court Administrator, Juvenile, Family Law, Probate
Barbara	Marcille	Oregon Justice Department/MultCo Circuit Court	Trial Court Administrator
Nan	Waller	Oregon Justice Department/MultCo Circuit Court	Judge
Anne	Steeves	PGE	Operations Manager, MCP, MBCP Business Continuity Emergency Management
Jay	Jewess	PGE	Director, Business Continuity & Emergency Management
John	Dutt	Portland Information and Referral	
TriMet	PIO	TriMet	PIO
Harry	Saporta	Trimet/Safety & Security Division	Executive Director
Jay	Jackson	TriMet/Operations Command Center & Field Operations	Director
Wendy	Lotman	TriMet/Operations Command Center	Assistant Manager

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