

MINUTES

JULY 10, 2014

	The meeting was called to order @ 1:30 p.m. by Joe Marcotte																
INTRODUCTIONS																	
AGENDA ITEMS	DISCUSSION	ACTION STEPS / FUTURE EVENTS															
MINUTES	Minutes of the previous were approved as distributed with noted corrections. []																
FINANCIAL REPORT	<p><u>QUARTERLY FINANCIAL REPORT</u> [DUANE WINSLOW] Financial Reports are given quarterly: March, June, September, December</p> <table border="1"> <thead> <tr> <th></th> <th>Opening Balance</th> <th>Debits</th> <th>Credits</th> <th>Ending Balance</th> </tr> </thead> <tbody> <tr> <td>General Ledger Total</td> <td></td> <td></td> <td></td> <td>\$25,563.54</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Opening Balance	Debits	Credits	Ending Balance	General Ledger Total				\$25,563.54						Next Report Due: September
	Opening Balance	Debits	Credits	Ending Balance													
General Ledger Total				\$25,563.54													
COMMITTEE REPORTS																	
	<p><u>EXERCISE DESIGN COMMITTEE:</u> [JEFF ASHWORTH, CHAIR] <u>COYOTE 2014:</u> The After Action report is being completed. The final business item regarding the 2014 Coyote Exercise is a report from Agency Directors is the total number of people and hours that each Agency dedicated to the exercise. You can email your numbers to Jeff at jashworth@dxpe.com, Duane Winslow at dwinslow@co.yellowstone.mt.gov or Charlie Hanson at desdist5@bresnan.net .</p> <p><u>JULY 8: METRA PARK TABLE TOP EXERCISE</u> – Charlie Hanson reported that this exercise was developed by himself and Duane Winslow at the request of Metra park. The scenario was a sabotaged pyrotechnics / fireworks event at a punk concert during Montana Fair. Charlie and Duane are currently working on the after action plan and will share with the group when completed.</p> <p><u>JULY 15-16 – PHILLIPS 66 - ICS TRAINING WORST CASE DISCHARGE TABLE TOP EXERCISE @ Crowne Plaza</u></p> <p><u>FORMIDABLE FOOTPRINT EXERCISE SCHEDULE: 2014</u></p> <table border="1"> <thead> <tr> <th>Exercise Date</th> <th>Scenario</th> <th></th> </tr> </thead> <tbody> <tr> <td>July 26, 2014</td> <td>Earthquake</td> <td rowspan="2">Separate registration is required to participate in each exercise. Individual participant registration CLOSES at 9:00AM ET on the day prior to the exercise</td> </tr> <tr> <td>August 30, 2014</td> <td>Influenza Pandemic</td> </tr> <tr> <td></td> <td></td> <td>To ensure that all participants receive important situational awareness materials prior to the exercise as well as a Certificate of Participation at the conclusion of the exercise everyone participating in an exercise will need to register. If an individual is not registered they will not receive important e-mailed materials designed to ensure their participation in the exercise is successful.</td> </tr> </tbody> </table>	Exercise Date	Scenario		July 26, 2014	Earthquake	Separate registration is required to participate in each exercise. Individual participant registration CLOSES at 9:00AM ET on the day prior to the exercise	August 30, 2014	Influenza Pandemic			To ensure that all participants receive important situational awareness materials prior to the exercise as well as a Certificate of Participation at the conclusion of the exercise everyone participating in an exercise will need to register. If an individual is not registered they will not receive important e-mailed materials designed to ensure their participation in the exercise is successful.	<p>NEXT MEETING EXERCISE DESIGN MEETING</p> <p>July 22, 2014 10:00-11:00 a.m. 4th Floor/Conf Room Billings Clinic Cancer Center</p>				
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Here is the main website for the monthly series of Formidable Footprint exercises. <http://www.drc-group.com/project/footprint.html>

MT/WY CO-OP DEPLOYMENT ON YELLOWSTONE RIVER EXERCISE: AUGUST 12-14

AUGUST 12: All hands Meeting at the Vermillion Site 8:30 a.m. (4441 Vermillion Rd. turn south towards river at Shepherd highway 312 blinking light). Boat crews will need to launch boats from Voyagers Rest Fishing access Site. - Break into 4 groups:

- Group 1 with Joey Phillips; will be ICS structure.
- Group 2 with Jeff Harmon; will be Anchors and Boom.
- Group 3 with Keith Metzger; will be skimmers and fast tank.
- Group 4 with Kelly Drain; will be boat safety.

Deploy cascade booms at collection point using midpoint anchors to practice skills. Time will drive the number of evolutions. Conclude day one at 5:00 p.m.

AUGUST 13: All Hands Meeting at the Vermillion Site 8:30 a.m. - Scenario is a release of product on the Yellowstone River. Deploy diversion boom across river with skimmer and fast tank set up at the collection point. Conclude day two at 5:00 p.m.

AUGUST 14: All Hands Meeting at the Vermillion Site 8:30 a.m. - Scenario is a release of product on the Yellowstone River. Deploy diversion boom across river with skimmer and fast tank set up at the collection point. Conclude day two at 5:00 p.m.

<u>PPE requirements as a minimum:</u>	<u>Should bring:</u>
PFD (when working near water or in boats) Long pants T-shirt (no tank tops) Gloves (for handling equipment) Substantial shoes (no open top or sandals)	Sun screen Sun glasses Chair for lunch

NOTE: Pictures will be taken by authorized personnel only.

OCTOBER 16-17-18 CAMPUS READY – 3-day Training. More information will follow as it is received.

COMMITTEE REPORTS

GREAT MONTANA SHAKE OUT: OCTOBER 22, 2014 AT 10:22 A.M.

Montanans across the state will participate in the Great Montana ShakeOut, a statewide earthquake drill. I encourage you to embrace this opportunity as a creative way to complete required emergency preparedness drills and exercises within your county or jurisdiction.

The drill is a great opportunity to engage the whole community, including individuals, schools, businesses, healthcare providers, and more. Last year, over 19.4 million people participated in ShakeOut drills across the globe by **dropping, covering, and holding on.**

An additional excellent opportunity planned for this year is for local jurisdictions to participate in “The Day after the Shakeout” exercise program. This follow up to the Great Montana ShakeOut will provide for a simple tabletop exercise that can be conducted locally to assess the effects of a regional or local earthquake on a community.

Please contact Marty Angeli, MT Disaster and Emergency Services HSEEP specialist, for information on participation.

Emergency managers are at the forefront of disaster preparedness, response, and recovery efforts. We

<p>COMMITTEE REPORTS</p>	<p>encourage all emergency management agencies in Montana to participate in the Great Montana ShakeOut and share the opportunity with their partners and constituents. Register today and access resources by visiting, http://shakeout.org/montana/.</p> <p>The 2014 Great Montana ShakeOut is organized by the State of Montana Disaster and Emergency Services, Governor's Office of Community Service, American Red Cross of Montana, the Montana Bureau of Mines and Geology, and local partners across the state. The drill is supported by the Earthquake Country Alliance, whose members include the U.S. Geological Survey, Federal Emergency Management Agency, and the American Red Cross.</p> <p>We would like to engage local partners across the state to maximize the impact and reach of the drill. Your input and involvement is critical to the success of the ShakeOut. If you have questions or feedback, please contact Betsy Miller, <i>Governor's Office of Community Service Ready Montana Grant Coordinator</i>, by phone at 406-444-1718 or via email at bmiller@mt.gov.</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div>	
	<p><u>WEATHER-READY NATION:</u> There is a new national initiative (Weather-Ready Nation) to help our nation become more resilient to the increases in extreme weather. Some may have seen our presentations on this program in recent months. Any organization/business can be recognized as a Weather-Ready Nation Ambassador if you wish to help us motivate our communities to prepare for weather disasters by doing the following:</p> <ul style="list-style-type: none"> * Promoting Weather-Ready Nation Messages within your organization and communications structure. (i.e. sharing national/local NWS severe weather awareness materials as appropriate) * Engage with NOAA/NWS on potential collaboration opportunities * Share your success stories of preparedness and resiliency * Serve as an "example" by educating your employees on workplace preparedness and encouraging your employees for personal preparedness at home <p>Many of your organizations are already doing this and this is an opportunity to be recognized by our agency for your efforts. My local plan is to also give you tools for easily sharing some of our local weather preparedness materials via your communication networks (email, social media, websites, etc). It's all about increasing the exposure of weather preparedness information.</p> <p>Many of you will also have new and creative ideas that we can share. Attached is a 2 page summary of the program. The website is at: http://www.nws.noaa.gov/com/weatherreadynation/ambassadors.html#.U7wj5fldV8F</p> <p>Here are some current Ambassadors: http://www.nws.noaa.gov/com/weatherreadynation/current%20ambassadors.html#.U7wsMfldV8E</p> <p>Tom Frieders, Warning Coordination Meteorologist, National Weather Service Billings, MT, (406) 652-0851 ext 223</p>	
	<p><u>GRANTS COMMITTEE</u> [DIANNE LEHM, CHAIR] Dianne reported that they are still closing out two existing grants.</p> <ul style="list-style-type: none"> • Hazards-Fuel Reduction Mgmt Grant will be closed out after completing site visits. • BLM Grant – final projects are being completed. • HMEP Grant – pending 	<p>Dianne Lehm lehm@bigskyeda.org</p>

	<p>And reminded everyone to get their COYOTE 2014 exercise hours to Jeff, Duane or Charlie because these hours can be used as 'in-kind' matches on certain grants and using the national average wage for volunteers of \$22.00 per hour, that is a huge benefit when submitting grant applications.</p> <p>The application for another BLM Grant for Fuels Reduction grant has been submitted.</p> <p>REMINDER: If you want help with grants, please forward your agency's needs to Dianne. Having this information will help her identify grant funding. Contact: Dianne Lehm, lehm@bigskyeda.org</p>	
COMMITTEE REPORTS	<p><u>CAER/CITIZENS CORPS</u> [PAM SANDERSON]</p> <p><u>JULY 29 – MUSTANGS VS. HELENA BREWERS – FIREREADY MONTANA NIGHT.</u> Volunteers who 'man the booth' and pass out materials will receive free tickets to the Mustang game on July 29th. Set up is at 5:00 p.m. with the game starting at 6:00 p.m.</p>  <p><u>DAY OF CARING – SEPTEMBER 11 –</u> Plans this year include a request to have honor guards from 1st Responders at the event. Chief Dextras stated that the Police Department has an honor guard and then volunteered Bill Rash and RD Harper to work with Pam to have a Fire/Law Enforcement presence at the event.</p> <p>Social Media Sub-Committee: no report.</p> <p><u>Ready Yellowstone:</u> Will continue to align ourselves with brochures / magnets, etc. and there are plans in the works to expand the scope to 'personal preparedness'.</p>	
	<p><u>HEALTH & MEDICAL ADVISORY GROUP (HMAG)</u> [GREG NEIL]</p> <p>Greg reported that the HMAG committee is considering a re-vamp to the meetings in order to get better participation because there is an expectation that "someone" from public health is minding the public's interest in the event of an emergency within the community.</p>	
	<p><u>CONFERENCE SUB-COMMITTEE</u> [GREG ROADIFER / AARON STULC]</p> <p>No formal report. Joe did report that the dates for the 2015 Conference are being secured.</p>	
	<p><u>CRISIS COMMUNICATIONS SUB-COMMITTEE:</u> [NO COMMITTEE CHAIR IDENTIFIED.]</p> <p>No report</p>	
	<p><u>COMMUNICATIONS SUB-COMMITTEE:</u> [JASON MAHONEY]</p> <p>No report. Committee did not meet in July; however one of the goals of the Committee is the development of a communications plan by year end.</p>	
	<p>Training Sub-Committee: [Greg Neill]</p> <p><u>ALL HAZARDS GRANT APPLICATION:</u> A clarification stating that this grant was being submitted on behalf of the Yellowstone County LEPC and not RiverStone Health was prepared and the All Hazards Grant application has been re-submitted for consideration.</p>	
NEW BUSINESS	<p><u>DEVELOPMENT OF LOCAL RESPONSE TEAM</u> – Add as an Agenda item for the August meeting. Identification of individuals who are willing to commit to a response team that ideally had multiple members deep in each discipline.</p>	
OLD BUSINESS	<p><u>STATUS OF BY LAWS SUB-COMMITTEE RE-WRITE</u> – PAM SANDERSON & DUANE WINSLOW</p> <p>Draft is being finalized with all comments, suggestions being included.</p>	
OTHER BUSINESS	<p><u>HIGH RELIABILITY ORGANIZATIONS – CONFERENCE – OCTOBER 2014.</u> Cancelled.</p>	
	<p><u>TIER II REPORTS:</u> - Erin Stoltz wants to come speak at an LEPC meeting regarding Agency reporting.</p>	

EMERGENCY RESPONSE AND COMMUNITY RIGHT TO KNOW ACT: ALL REPORTING LEVELS*

(302, 311, 312 (Tier I & II))

Filing Reports: Beginning in late December 2013 Montana will have transitioned Tier II report filing to E-Plan electronic submission. No hard copies or email submittals, please. Your report from 2012 should be in the system. If you filed a hard copy with Montana, it has been entered, also. If not, follow the directions to upload the 2013 report. You may also load the 2012 report and then edit it for 2013. See the directions below. You also have the option to attach contingency plans, maps, photos, etc. in the "additional information" section.

Regarding local filing, the decision to accept online reporting to LEPCs or TERCs and fire departments has been left up to individual jurisdictions.

E-Plan

Montana uses E-Plan for accepting online submission of Tier II chemical inventory information.

Facilities must submit their Tier II Report by logging into E-Plan's Online Tier II Reporting System web site at <https://tier2.erplan.net>.



(Click on icon to open E-Plan web site)

1. **Getting Started:** Please use the **Contact Us** button on any E-Plan website page to request for your login account (Access ID and password). In your request, please provide your facility name and address.

Note: If you did not file a report in the filing year 2012, you will have to go to E-Plan's Online Tier II Reporting System Web Site at <http://tier2.erplan.net> and click on **Create an Account**. After you register, you will be assigned a **7-digit Access ID number**.

2. **Creating and Editing Report:** You must **Sign In** in the system in order to create and submit your data. After you sign in, you will be taken to the "E-Plan Online Filing Submission Management" page where you will need to either **Enter new Data for your facility**, **Copy Data from previous year**, or **Import your data if it was created by EPA's Tier2 Submit program (extensions .zip or .t2s)**.

- **Entering New Facility Data:** Under the "ENTER NEW DATA/RETRIEVE OLD DATA" section, choose 2013 for the filing year and press "Continue". Enter in your Facility Information. Press the "Save & Continue" button and then enter in your Facility Identification (NAICS required). Return to the 2013 Online Filing Home page by clicking the "Filing Management" link in the upper left-hand corner. From there, you will see the icon to Add New Chemical. Follow the prompts. When complete, return to the 2013 Online Filing Home page again, and press the icon to Add New Contact information.
- **Importing Last Year's .zip or .t2s File:** Under the "IMPORT TIER2" section, press the "Import 'zip/t2s'" button. Locate your tier2 zip or t2s file, and press the Upload button. Once the file is successfully imported, press "Continue". You will be automatically taken back to the E-Plan Online Filing Submission Management page. If the imported Tier2 data files are for year 2012, you must convert the facility data from year 2012 to 2013 using the COPY DATA function.
- **Copying Data:** Under the "COPY DATA" section, copy the data from 2012 to 2013 in the drop-down menu. Once this step is complete, you should see the years 2012 and 2013 listed under currently filed years in the left section. Select to retrieve Tier II data for 2013 in the drop down menu and press "Continue". You will be taken to the 2013 Online Filing Home page where you can edit your information if needed.

3. **Validating and uploading data into E-Plan:** From the 2013 Online Filing Home page, press the Validate Record button at the bottom of the page. If any errors are found, they will be listed here, or it will indicate that the facility report passed all submission tests. Once the "Submission Report" indicates all required fields are correct, the "Upload Data to E-Plan" option will appear. Press the Upload Data to E-Plan button, select your facility, and press the Update button. The status should change from **Not Filed** to **Filed** when the report has been properly submitted. A confirmation message will be sent to the account's email listed during the registration process, with a copy of your report attached in .pdf format. Print and save these documents as *proof of submission*.

A facility's Tier II Report submittal will be deemed complete when the Montana Department of Environmental Quality can view its electronic submittal on E-Plan.

For E-Plan questions or requests, please use the **Contact Us** button on any E-Plan website page.

For questions or requests, contact: [Bonnie Lovelace](#), Montana Department of Environmental Quality
 PO Box 200901 Helena, MT 59620 (406) 444-1760

Note: Montana does not collect fees for this submittal.

Note: Montana does not accept hard copies.

Note: Montana follows EPA requirements and does not have state-level requirements.

	<p><u>NATIONAL WEATHER SERVICE: "STORM READY COMMUNITIES":</u> Tom Freiders reported that back in 2000 Yellowstone County was recognized as a "Storm Ready Community" by the National Weather Service.</p> <p><u>WEATHER TRAINING:</u> Did training in April with area dispatchers on weather related preparedness and the services that are available through the National Weather Service/Billings Office.</p> <p><u>WEATHER READY NATION AMBASSADORS:</u> There is a new national initiative (Weather-Ready Nation) to help our nation become more resilient to the increases in extreme weather. Some may have seen our presentations on this program in recent months. Any organization/business can be recognized as a Weather-Ready Nation Ambassador if you wish to help us motivate our communities to prepare for weather disasters by doing the following:</p> <ul style="list-style-type: none"> • Promoting Weather-Ready Nation Messages within your organization and communications structure. (i.e. sharing national/local NWS severe weather awareness materials as appropriate) • Engage with NOAA/NWS on potential collaboration opportunities • Share your success stories of preparedness and resiliency • Serve as an "example" by educating your employees on workplace preparedness and encouraging your employees for personal preparedness at home <p>A two-page flyer will be emailed to LEPC agencies next week. The website is at: http://www.nws.noaa.gov/com/weatherreadynation/ambassadors.html#.U7wj5fldV8F</p>	
	<p><u>CELL TOWERS ON WHEELS:</u> Over the 4th of July Holiday the City of Laurel authorized the temporary installation of a cellular tower on wheels at the Laurel Middle School. If you didn't see the Laurel Outlook article please do take a moment to read about it online.</p>	
	<p><u>HOPE DOGS @ BUILD-A-BEAR DISNEYLAND:</u> With the staff of Build a Bear, HOPE K-9 TEAMS from across the nation, made stuffed Dogs and Bears to give out to victims we work with during a crisis.</p> 	
	<p><u>STATE-WIDE RADIO PROJECT STATUS:</u> Bob Paul, Montana Woman's Prison asked about the status of the narrowbanding and the state-wide radio system project, known as Big Sky 11. The Big Sky 11 was disbanded and Bob was told to contact Duane Winslow, Yellowstone County DES Director, 406-256-2775.</p>	
	<p><u>ROCKY ACTIVE SHOOTER TRAINING</u> with Billings Police Department for Rocky Mtn College staff.</p>	
	<p><u>ST. JOHN'S SUMMER CONCERT SERIES:</u> All LEPC agencies are invited to attend. Concerts are Thursdays at 7:00 p.m. July 10, 17, 24,31 and August 7. Free summer concert parking and shuttle service for all guest from parking area at Shiloh & Poly Drive.</p>	

Next Meeting: August 14, 2014 @ 1:30 p.m.

Meeting Adjourned: 2:40 p.m. [Ashworth/Mahoney]

AGENCY EDUCATION SESSIONS SCHEDULE			
	DATE	AGENCY	
COMPLETED	November 2009	United Way	
COMPLETED	December 2009	YARES	
COMPLETED	January 2010	Yellowstone County DES	
COMPLETED	February 2010	Yellowstone County Sheriff's Office	
COMPLETED	March 2010	US Postal Service	
COMPLETED	April 2010	US Marshal's Service	
COMPLETED	May 2010	Sysco Food Service	
COMPLETED	June 2010	St. Vincent HELP Flight	
COMPLETED	JULY 2010	St. VINCENT HEALTHCARE	
COMPLETED	August 2010	RiverStone Health	
COMPLETED	September 2010	National Weather Service	
COMPLETED	October 2010	MSU-Billings Police	
NO PRESENTATION GIVEN	November 2010	MSSC	
NO PRESENTATION GIVEN	December 2010	Montana Army National Guard	
COMPLETED	January 2011	Montana Highway Patrol	
COMPLETED	February 2011	Montana District V – DES	
NO PRESENTATION GIVEN	March 2011	Lutheran Disaster Response	
NO PRESENTATION GIVEN	April 2011	Lockwood Water & Sewer	
COMPLETED	May 2011	Lockwood Fire Department	
COMPLETED	June 2011	Laurel, City of – Police & Fire/Ambulance Dept	
COMPLETED	July 2011	HOPE Dogs	
COMPLETED	August 2011	Hansers Automotive	
NO PRESENTATION GIVEN	September 2011	FBI	
COMPLETED	September 2011	EPA	
COMPLETED	October 2011	ExxonMobil	
COMPLETED	November 2011	DXP – Safety Master	
COMPLETED	December 2011	DPC	
COMPLETED	January 2012	Conoco-Phillips	
NO PRESENTATION SCHEDULED	February 2012	LEPC/MSSC Conference: Crowne Plaza	
COMPLETED	March 2012	CHS Refinery	
RESCHEDULED TO MAY	April 2012 *	Business Watch Montana	
COMPLETED	May 2012	Business Watch Montana	
NO PRESENTATION GIVEN	May 2012	Brenntag Pacific	
COMPLETED	June 2012	Billings Public Schools	
COMPLETED	July 2012	Billings Clinic	
NO PRESENTATION GIVEN	August 2012	Billings City of – Police Dept	
COMPLETED	September 2012	Billings City of – Public Works	
COMPLETED	October 2012	Billings City of – Fire Dept	
COMPLETED	November 2012	Billings City of – Airport Fire/Rescue	
COMPLETED	December 2012	Big Sky EDA	
NO PRESENTATION GIVEN	January 2013	American Red Cross	
NO PRESENTATION GIVEN	February 2013	American Medical Response	
NO PRESENTATION SCHEDULED	MARCH 2013	SAFETY CONFERENCE – CROWNE PLAZA	
COMPLETED	April 2013	Advanced Care Hospital of MT	
POSTPONED TO MARCH 2014	May 2013	Stillwater Billings Clinic	
COMPLETED	June 2013	MSSC	
NO PRESENTATION GIVEN	July 2013	Montana Army National Guard	
COMPLETED	August 2013	Lutheran Disaster Response	
NO PRESENTATION GIVEN	September 2013	Lockwood Water & Sewer	
RESCHEDULED TO NOV 2013	October 2013	FBI	
COMPLETED	November, 2013	FBI	
COMPLETED	December, 2013	Billings Police Department	
COMPLETED	January, 2014	American Red Cross	
COMPLETED	February, 2014	American Medical Response	
CANCELLED/POSTPONED	March, 2014	Stillwater/Red Lodge Billings Clinic	
COMPLETED	April 2014	County Water District - Heights	
	September, 2014	Stillwater/Red Lodge Billings Clinic	

ATTENDANCE RECORD – JULY 10, 2014 MEETING

Present	Name	Company	Federally Funded Yes / No	Miles Travelled One-way
	Seybold, Lori	Advanced Care Hospital	No	15
	Schneider, Judy	Alternatives, Inc.	No	1
X	Gurchiek, Lyndy	American Medical Response	No	5
	Hansen, Brian	American Medical Response	No	5
X	Pulver, Greg	American Medical Response	No	5
	Firman, Abra	American Red Cross	No	1
	Fulkerson, Kyle	American Red Cross	No	2
	Kittrell, Laurel	American Red Cross	No	15
	LaFurge, Stephen	American Red Cross	No	2
	Richmond, Philip	American Red Cross	No	
X	Lehm, Dianne	Big Sky EDA – Project Impact	No	5
	Barry, Tom	Billings, City of – Airport	No	2
	Brown, Jeff	Billings, City of – Airport	No	2
X	Glancy, Mike	Billings, City of – Airport Fire	No	1
X	Dextras, Paul	Billings, City of Fire	No	1
X	Gibson, Kathy	Billings, City of - Fire	No	2
X	Hoppel, Matt	Billings, City of – Fire	No	2
	Larson, Terry	Billings, City of – Fire	No	5
X	Rash, William	Billings, City of – Fire	No	2
	Harper, R.D.	Billings, City of – Police		5
	Krizek, Boris	Billings, City of - Public Works		3
	Workman, Gary	Billings, City Public Works – Water	No	3
	Friday, Wyeth	Billings, City/County Planning	Yes	5
X	Hoy, Patrick	Billings Clinic		5
X	Marcotte, Joe	Billings Clinic		5
	Pearce, Cyndi	Billings, Public Schools	No	3
	Gold, Nick	Brenntag Pacific, Inc.	No	15
	Cox, Meridith	BusinessWatch Montana	No	
	Anderson, Nathan	Carbon County Public Health/Beartooth Blgs Clinic		65
	Kimble, Brad	CHS Pipelines & Terminals– Laurel	No	30
	Phillips, Joey	CHS Pipelines & Terminals	No	30
	Lowe, Russ	CHS – Retired	No	25
	Metzger, Keith	CHS Refinery – Laurel		30
	Nieskens, Duke	County Water District of Blgs Heights	No	3
X	Brookshire, Peyton	County Water District of Blgs Heights	No	3
	Barone, Christopher	Dept of Homeland Security	Yes	
	Middlebrook, Randy	Dept of Homeland Security/IP	Yes	
	Rosh, Ron	DPC	No	
X	Ashworth, Jeff	DXP	No	1
X	Montgomery, Jeb	ExxonMobil Pipeline	N	4.5
X	Vokral, James	ExxonMobil Pipeline	No	4.5
	Drain, Kelly	ExxonMobil Refinery	No	3
	Stephenson, Rick	FBI	Yes	1
	Stewart, Michele	FBI	Yes	1
	Van Denn, Bryan	FBI	Yes	1
	Walter, Brandon	FBI	Yes	1
	Bragg, Christie	Faith Chapel		
	Yampradit, Tom	First Interstate Bank	No	2
	Gaglia, Phil	First Interstate Bank	No	2
	Rome, Donald	First Interstate Bank	No	2
	Findley, Lyn	HOPE [Animal Assisted Crisis Response] Dogs	No	4
X	Schlitz, Harry	HOPE [Animal Assisted Crisis Response] Dogs		
	Vaught, Tanya	HOPE [Animal Assisted Crisis Response] Dogs	No	6
	Miller, Thomas	Industrial Communications	No	5
	Reay, Aaron	Industrial Communications	No	5

ATTENDANCE RECORD – JULY 10, 2014 MEETING				
Present	Name	Company	Federally Funded Yes / No	Miles Travelled
	Kolstad, Keith	Laurel, City of	No	30
	Markegard, Kurt	Laurel, City of	No	30
		Laurel, City of – Fire Department		
	Musson, Rick	Laurel, City of - Police Department	No	30
	Bronk, Tim	Laurel Public Schools	Yes	30
	Reiter, Scott	Laurel Public Schools	Yes	15
		Lockwood Fire Dept	No	7
	Smart-Madler, Delet	Lockwood Fire Dept	No	7
	Woods, Woody	Lockwood Water & Sewer		7
	Grassel, Diana	Loveland Products		
	Fricke, Melanie	Loveland Products		
	Williams, Michael	Loveland Products		
X	Hanson, Charlie	MT Dist. V DES Rep.	Yes	5
	Rand, Michael	MT DES		
	Kolar, Tam	MT DES		
	Baum, Craig	Montana Highway Patrol	No	
	Roadifer, Greg	MSSC	No	8
	Stulc, Aaron	MSSC		2
X	Aamold, Christy	MSU-Billings – Risk Manager	No	1
	Davis, Adam	MSU-Billings –Police		1
	Forshee, Scott	MSU-Billings –Police		1
	Turner, Mark	Montana Rail Link		20
	Hofacker, Margaret	Montana Sulphur & Chemical	No	
	Smith, Archie	Montana Sulphur & Chemical		
X	Paul, Bob	Montana Women's Prison		3
X	Frieders, Thomas	National Weather Service		
	Meier, Keith	National Weather Service		
	Wells, Jon	PPC-Montana	No	130
X	Beckman, Lee	PPL-Montana		2
	Broadie, Chris	PPL-Montana		2
	Clark, Ross	PPL-Montana		2
X	Kimmet, Ken	PPL-Montana		2
	Magnuson, Chris	PPL-Montana		1
	Fawcett, Bill	Phillips 66	No	1
X	Harmon, Jeff	Phillips 66 Pipeline	No	
	Moser, Justin	Phillips 66		
	Taylor, Susan	Phillips 66	No	1
	Farris, Ryan	RSH		
X	Washburn, Jill	Red Cross of Montana	No	1
	Eckenroad, Jim	Rimrock Foundation	No	1
X	Neill, Greg	Riverstone Health	Yes	1
	Schneeman, Barbara	Riverstone Health		
	Staton, Jennifer	Riverstone Health	Yes	2
	Jackson, Kevin (Maj)	Salvation Army	No	2
	Russell, Aline	St. Andrew Presbyterian	No	9
	Burgess, Kent	St. John's Lutheran Ministries		
X	Wilkerson, Rob	St. John's Lutheran Ministries/Disaster Response		6
	Dugan, Bill	St. Vincent Healthcare		1
	Janskovitch, Tony	St. Vincent Healthcare		
X	Mahoney, Jason	St. Vincent Healthcare		
	Olivas, Adam	St. Vincent Healthcare – Public Safety	No	
	Wofford, Terri	St. Vincent Healthcare		2

ATTENDANCE RECORD – JULY 10, 2014 MEETING

Present	Name	Company	Federally Funded Yes / No	Miles Travelled
	Davey, Scott	Stillwater Billings Clinic	Yes	100
	Grim, Jill	Stillwater Billings Clinic	Yes	100
	Kelly, Chuck	Sysco Food Service		4
	Lough, Bob	Sysco Food Service		4
	Ostermiller, Rod	US Marshal's Service		
	Rash, Carol	US Marshal's Service	Yes	2
	Merritt, Steven	UP EPA, Region 8	Yes	440
	Myers, Craig	US EPA	Yes	400
	Haight, Rae Ann	United States Postal Service	Yes	1
	Newell, Danna	United Properties	No	
	Harper, Oren	US Water Rescue Dive Team	No	1
	Weinreis, Shane	US Water Rescue Dive Team	No	4
X	Sanderson, Pam	United Way Volunteer Center	No	2
	Burt, Tari	United Way		
X	Bikle, Chuck	YARES, Radio Club	No	6
	Glass, Ron	YARES, Radio Club	No	6
	Oberg, Linda	Yellowstone County DES		3
	Winslow, Duane	Yellowstone County DES		1
	Bushey, Chuck	Yellowstone County Fuel Mitigation	No	2
	Luppen, Janelle	Yellowstone County GIS		
	O'Donnell, Kent	Yellowstone Co – Sheriff		
	Skillen, Shane	Yellowstone Co – Sheriff		2
	Wallis, Vince	Yellowstone Co – Sheriff		
	Sandburg, Tom	83 rd Civil Support Team		
	Karlin, Adam	83 rd Civil Support Team (WMD)		
28	TOTAL ATTENDANCE			

MONTANA: EARTHQUAKE HISTORY

Montana is one of the most seismically active States in the Union. Since 1925, the State has experienced five shocks that reached intensity VIII or greater (Modified Mercalli Scale). During the same interval hundreds of less severe tremors were felt within the State. Montana's earthquake activity is concentrated mostly in the mountainous western third of the State which lies within a seismic zone that also includes southeastern Idaho, western Wyoming, and central Utah.

Although earthquakes are common in Montana, the early history of felt shocks is incomplete. Only four felt earthquakes that occurred before 1900 are on record. The first was a shock on May 22, 1869, that reached intensity VI at Helena. In 1872 Helena was shaken again, this time by two earthquakes, one on December 10 and the other on December 11, both intensity VI. The fourth pre-1900 earthquake was an intensity VI shock that struck Dillon November 4, 1897.

The first significant 20th century Montana earthquake occurred on June 27, 1925, when a magnitude 6 3/4 shock caused violent shaking over a 1,600 square kilometer area in southwestern Montana. The earthquake was felt over an 803,000 square kilometer area extending from the North Dakota line to Washington and from the Canadian border to central Wyoming. Since the population of the region is sparse, damage was relatively light for such a large earthquake. The towns of Manhattan, Logan, Three Forks, and Lombard sustained the greatest damage. School buildings in these towns suffered most because of the unreinforced brick construction. Reinforced concrete, well designed masonry, and framed buildings for the most part escaped damage. Two light foreshocks and a great many aftershocks were associated with the main shock. The aftershocks continued for several months, the strongest being an intensity V shock on July 10, 1925. Since 1925, earthquakes of intensity V to VI have occurred in the region every few years.

A series of severe earthquakes in the Helena area during October and November 1935 caused four deaths, several injuries, and property damage exceeds \$4 million. The first shock of the series came on the evening of October 3 in the form of a hard vertical jolt (intensity V). On October 12, a stronger shock occurred that caused some damage in Helena and Fort Harrison (intensity VII) and had a total felt area of 181,000 square kilometers. Smaller shocks continued until October 18 when a magnitude 6 1/4 earthquake occurred. This tremor, the strongest of the series, caused damage in varying degrees to about 300 buildings and was widely felt in Wyoming, Idaho, eastern Washington, and adjacent parts of Canada, an area of about 596,000 square kilometers. The newly completed Helena High School suffered the greatest damage of any single structure. Damage to the State capitol, Federal building, and the St. Helena Cathedral was slight. Telephone, telegraph, and electrical services were stopped for about 1 hour. East of Helena ground cracks up to 45 meters long and 1 meter deep were formed. In spite of the great damage from this shock, there were only two fatalities and few injuries. Another shock on October 27 caused additional damage to weakened structures (intensity VI). On October 31, a magnitude 6 earthquake cause more damage and two fatalities. Many buildings, weakened by the previous shocks, were demolished, including the new high school. Damage was most severe in the business section. The October 31 earthquake was felt in the same States as the October 18 shock, but the total felt area was somewhat less (approximately 363,000 square kilometers). Following the October 31 earthquake, aftershocks continued to occur. A fairly strong tremor occurred on November 21 and another on November 28, both intensity VI. The first was felt over 34,000 square kilometers and the other over 233,000 square kilometers. The latter tremor caused additional damage to previously weakened buildings. Helena again suffered minor damage from an aftershock on February 13, 1936. A total of 1,347 shocks from this series were listed up to the end of 1935.

Most strong earthquakes in Montana have occurred in the western third of the State. The only significant shock outside this area was an intensity VI earthquake on June 24, 1943, in southern Sheridan County, in the northeastern corner of the State. A well-constructed granary at Froid cracked so severely that wheat spilled out. Plaster cracks and minor chimney damage were reported at Homestead, Redstone, and Reserve.

The southwestern portion of Montana was struck by a magnitude 6 1/4 earthquake on November 23, 1947. Maximum intensity reached VIII and brick, masonry, and concrete structures suffered considerable damage. Alder, Cameron, Ennis, Laurin, and Virginia City, in central Madison County, received the most damage. The total felt area was about 388,000 square kilometers of western Montana, northwestern Wyoming, Idaho, and eastern Washington, an area comparable to that of the October 31, 1935, Helena aftershock.

The Flathead Lake - Swan Lake area in the northwestern portion of the State experienced a damaging earthquake on March 31, 1952. This shock was felt over an area of 91,000 square kilometers and caused minor damage along the eastern shore of Flathead Lake (intensity VII).

The largest earthquake in Montana's history was the magnitude 7.3 Hebgen Lake earthquake of August 17, 1959. At 11:37 p.m., Mountain Standard Time, the earth beneath Hebgen Lake suddenly warped and rotated, generating a seiche that continued for about 11 1/2 hours. The first few waves were over 1 meter in height; large enough to flow over Hebgen Dam, a concrete core earth fill structure that was completed in 1914. Although the dam's concrete core wall cracked in 16 places, only a minor amount of seepage occurred. The surface of the lake, which contained 324,000 acre-feet at the time of the earthquake, dropped more than 3 meters because of the violent geologic changes.

The main tremor triggered a major landslide in the Madison River Canyon, about 9 kilometers downstream from Hebgen Dam. An estimated 80 million tons of rock jarred loose by the earthquake slid down the south wall of the canyon. The slide's volume was estimated at 37 to 43 million cubic yards. Nearly 2 kilometers of the river and highway (Montana 287) were buried to depths as great as 120 meters. At least 26 people in the Rock Creek Campground were buried by the slide. Two other campers were killed by a rolling boulder at Cliff Lake, west of Madison Valley. The slide formed a natural dam in Madison Canyon which blocked the flow of the Madison River and created a new lake which within a few weeks was about 60 meters deep, and extended almost to Hebgen Dam. It has been appropriately named "Earthquake Lake."

Many summer homes in the Hebgen Lake area were badly damaged and there was considerable cracking and shifting of roadways. State Highway 287 broke away and slid into Hebgen Lake at four different places. Damage to roads and timber was estimated at over \$11 million.

On the night of the earthquake about 18,000 people were vacationing in nearby Yellowstone National Park. Although buildings in the park were jarred by the tremor and huge boulders smashed down onto roads, no one was killed or badly injured. The earthquake disrupted the well-known thermal features in the park. Old Faithful's eruptions slowed slightly from an average 61-minute cycle to 65 minutes. Other geysers changed eruption times, new ones began to erupt, and many bubbling springs burst into violent activity.

A maximum intensity of X was assigned to the Hebgen Lake earthquake. Major new fault scarps were formed along existing normal faults northeast of Hebgen Lake. A maximum vertical displacement of 7 meters was observed near Red Canyon Creek. Minor to moderate damage occurred throughout southern Montana, northeastern Idaho, and northwestern Wyoming. The felt area extended as far as Seattle, Washington, to the west, Banff, Canada, to the north, Dickinson, North Dakota, to the east, and Provo, Utah, to the south, covering eight States and British Columbia, Alberta, and Saskatchewan, Canada, a total of about 1,500,000 square kilometers.

The Forest Service of the U.S. Department of Agriculture later established the Madison River Canyon earthquake area to preserve the earthquake features and provide for public use and safety. A visitor center which includes a visible-recording seismograph is maintained by the Forest Service. Also, there is a memorial marker to those whose lives were lost during the earthquake. Although the scene of large-scale destruction and tragedy, the locality is of great scientific and general interest because it provides a dramatic example of mountain-building and earth-shaping processes.

A magnitude 4.7 earthquake in the Flathead Lake area on April 1, 1969, cause damage and reached intensity VII at Big Arm, Dayton, and Proctor. Some damage was also noted in the Lake Mary Ronan area and a waterwell near Polson went dry. Several wells in the Proctor area increased their flow or became muddy. The shock was felt over 26,000 square kilometers and was followed by at least 21 felt aftershocks from April 1 to April 24. The strongest aftershock, on April 5, reached intensity V at Lake Mary Ronan. Over 325 minor aftershocks were reported felt from May 1969 through December 1971, mainly in the Big Arm - Polson area.

Abridged from Earthquake Information Bulletin, Volume 6, Number 4, July - August, 1974, by Carl A. von Hake.

For a list of earthquakes that have occurred since this article was written, use the [Earthquake Search](#).