



**Welcome - Please turn off or silence all cell phones during the commission meeting.**  
*Meetings are televised everyday on Channel 2 at 7 p.m. and midnight*

**Study Session:**

1. Semi-Annual Update by Leavenworth Public Library (pg. 2)
2. Review by Sidewalk Advisory Board (pg. 3)
3. Review Current Region L Multi-Jurisdictional Hazard Mitigation Plan (pg. 9)
4. Review Snow and Ice Control Policy and Supporting Plan (pg. 22)

**Special Meeting:**

Open a Special Meeting

**Action:** Motion

**Executive Session:**

5. Discuss Personnel Matters of Nonelected Personnel per K.S.A. 75-4319 (b) (1), City Manager Contract Renewal  
**Action:** Motion (pg. 23)

**Adjourn**

**Action:** Motion

**POLICY REPORT  
STUDY SESSION  
SEMI-ANNUAL UPDATE  
PRESENTATION BY LEAVENWORTH PUBLIC LIBRARY**

**OCTOBER 16, 2018**

Prepared by:



Carla K. Williamson, CMC  
City Clerk

Reviewed by:



Paul Kramer  
City Manager

**ISSUE:**

Matt Nojonen, Library Director will provide an update to the City Commission.

**POLICY REPORT PWD NO. 18-44**  
**REVIEW COMMISSION PRIORITIES FOR THE SIDEWALK ADVISORY BOARD**

October 16, 2018

Prepared by:



Mike Hooper,  
Deputy Director of Public Works

Reviewed by:



Paul Kramer,  
City Manager

**ISSUE:**

Review of the Sidewalk Advisory Board focus, priorities, procedures, and goals.

**BACKGROUND:**

In early 2005, EBH Engineers completed a City-wide sidewalk evaluation and report. The report contained findings related to existing sidewalk condition, existence of ADA ramps at intersections, and areas of missing sidewalk throughout the City. Using the recommendations included in the EBH Sidewalk Evaluation Report, the City Commission created the Sidewalk Advisory Board to provide recommendations to the City Commission reference the repair, replacement, and construction of new sidewalks with the following guidance and goals. The Sidewalk Advisory Board was recognized as a formal seven-person committee by the Commission on March 4, 2008.

The committee focuses on the following sidewalk items:

- Create and oversee the functionality of a cost-share program for residential and commercial properties that want to replace, repair, or improve an existing sidewalk or install a new sidewalk in a location where one does not currently exist.
- Review and make recommendations to the City Commission concerning where sidewalks are logical to construct within the following criteria:
  - Along residential, collector, and arterial streets
    - Residential – one side
    - Collector and arterial – both sides
  - Feeder sidewalks around schools, parks, and public buildings
  - In-fill locations (missing sections where a sidewalk exists on both sides of a property)
  - Repair locations (trip hazards, non-compliant or missing ADA ramps)

The Sidewalk Advisory Board meets on a regular basis to remain involved in both the long-term planning for and the review of current activities related to sidewalk construction.

Every two years, the committee members and staff will create a list of possible locations derived from the following input:

- Personal observations and discussions
- Citizen contact
- USD 453 personnel on walking patterns
- Coordination with other City infrastructure projects
- Direction from the City Commission

Each member ranks each proposed location as to their idea of importance (on a scale of 1-least important to 5-most important) following the established criteria.

The Sidewalk Committee uses the criteria below to identify and rate the recommended projects:

1. Is the sidewalk on a collector or arterial street?
2. Does the sidewalk serve a school?
3. Does the sidewalk serve a park or public building?
4. Does the proposed sidewalk provide for the continuation of an existing sidewalk?
5. Does the proposed sidewalk provide a connection to sidewalks that are missing sections which would tie the community network together?
6. Is the proposed sidewalk along a curb & gutter or open ditch roadway?
7. Is the proposed sidewalk constructability feasible?
8. Is the proposed sidewalk economically feasible?
9. Are there other factors related to use of a sidewalk by the public not part of the above considerations?
10. Construction of trail-width sections (where practicable and cost-effective) to promote bicycle activities, etc.

Once all rating sheets are received by staff, the rankings are tallied and all locations with a rating of 4.5 or higher are added for consideration to the multi-year sidewalk plan. There is often considerable discussion on these projects. Staff creates a draft plan with these agreed-upon locations shown in a specific year's plan based on their ranking and available funding for each year. The recommended plan is then reviewed with the City Commission. Recommended sidewalk projects are listed as either "new construction" or "repair" projects. The Sidewalk Advisory Board, at the direction of the City Commission, has identified more repair projects for inclusion in the program in recent years. It is important to note that some repair projects can easily be considered as complete replacements and some repair projects are in areas that can be brought up to standards with only limited section repairs.

The proposed annual plans identify approximately \$325,000-\$400,000 worth of projects for work in a given year. This will provide the necessary information for a design contract to be obtained. Staff and the Sidewalk Advisory Board update the recommendations for future projects based on results of bids for current year projects.

It is typical to design slightly more sidewalk than funding is available. This allows for additional work to be added if favorable bids are received. Any identified projects that are not built within the allotted budget are then recommended for inclusion into the program for the following year.

In 2006, the Sidewalk Cost Share Program was implemented to allow the City to reimburse property owners – residential and commercial – a portion of the cost for repair, replacement, or the new construction of sidewalks adjacent to their property. Guidelines are considered generous related to the repair and/or replacement of sidewalk under the program, and few requests have been rejected.

**RECOMMENDATION:**

Staff recommends that the City Commission review the priorities, methodology, and criteria for identifying projects for design and construction.

**Attachments:**

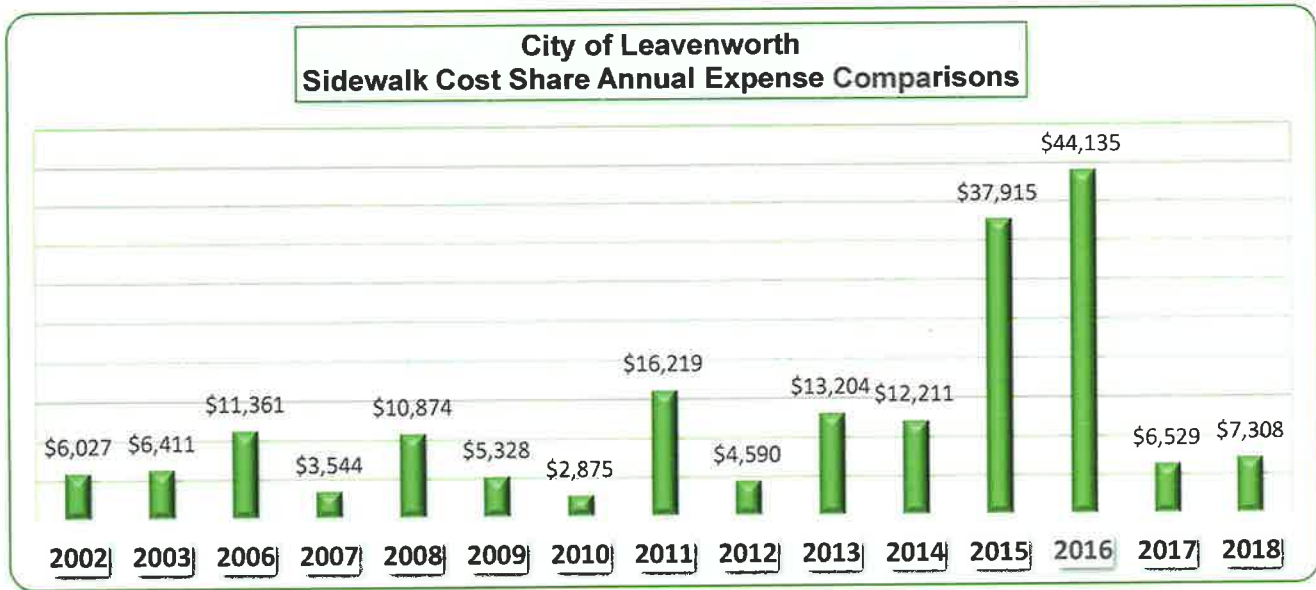
- Sidewalk Advisory Board Member List
- 2008–2018 Sidewalk Project Street Listing
- 2001-2018 Sidewalk Cost Share Overview & Comparison

SIDEWALK ADVISORY BOARD

<u>Contact Name</u>	<u>Position Title</u>	<u>Term Expires</u>
John Carroll	Board Member	2019-03-15
Phil Martin	Board Member	2019-03-15
Dave Stokka	USD 453 Rep	2019-03-15
Stephen Tennant	Board Member Civil Engineer	2019-03-15
Bob Euler	General Contractor Rep	2020-03-15
Brian Paxton	Board Member	2020-03-15
Steve Weissenfluh	Board Member	2020-03-15

STREET	LOCATION	REPAIR TYPE	PROJECT YEAR	CONSTRUCTION PROJECT NO.
Grand Ave.	Kansas to Michigan (E. side)	New	2008/2009	2008-547/2008-571
Vilas St.	20th St. Trfway to 22nd St. (S. side)	New	2008/2009	
15th St.	Vilas St. to Limit St. (S. side)	New	2008/2009	
Maple Ave.	Limit St. to Thornton St. (W. side)	New	2008/2009	
Evergreen St.	Maple Ave. to 4th Ave. (N. side)	New	2008/2009	
2nd Ave.	Limit St. to Thornton St. (E. side)	New	2008/2009	
Shrine Park Rd.	Eisenhower Rd. to Muncie Rd. (E. side)	New	2008/2009	
Ohio St.	10th Ave. to Westwood Dr. (S. side)	New	2010	2009-583
13th St.	Shawnee St. to Metropolitan St. (W. side)	New	2010	
19th St.	Osage St. to Ottawa St. (E. side)	New	2010	
Grand Ave.	Ironmoulders St. to Kansas St. (E. side)	New	2010	2009-622
Ottawa St.	Broadway St. to 10th St. (S. side)	Replace	2010	2010-623 (CDBG)
Broadway St.	Ottawa St. to Cheyenne St. (E. side)	Replace	2011	2010-638 (CDBG)
Osage St.	18th St. to 20th St.	New	2011/2012	2010-655
Osage St.	10th St. to 13th St.	New	2011	2011-666
	13th St. to 17th St.	New	2011	
5th St.	Kiowa St. to Pawnee St. (W. side)	New	2012	2011-687 SRS/52 U-2120-02
5th Ave.	Thornton St. to Pennsylvania St. (E. side)	New	2012	
3rd Ave.	Sherman St. to Evergreen St. (W. side)	New	2012	
Spruce St.	20th St. Trfway to School Dr. (S. side)	New	2012	
Vilas St.	16th Terr. to 17th St. (S. side)	New	2011/2012	2011-706
10th Ave.	Gatewood St. to Eisenhower Rd. (E. side)	Repair	2011/2012	
Eisenhower Rd.	Shrine Park Rd. to W. Hallmark (N. side)	New	2011/2012	
20th St.	Dakota St. to Pawnee St. (E. side)	New	2012	2012-719
Thornton St.	Cambridge St. to 17th St. (N.&S.)	ADA Ramps	2012	
10th Ave.	Michigan St. to Ohio St. (E.&W.)	New	2012	
10th Ave.	Gatewood St. to Pennsylvania st. (W. side)	Repairs	2012	
4th St.	Muncie Rd. to VA Entrance (E. side)	New	2012	
Spruce St.	10th Ave. to 15th St. (N.&S.)	ADA Ramps	2012	2012-720
4th St.	Pine st. to Spruce St. (E.&W.)	ADA Ramps	2012	
4th St.	Pennsylvania St. to Rees St. (E.&W.)	ADA Ramps	2013	2013-735
Spruce St.	6th St. to 4th St. (N.&S.)	ADA Ramps	2013	
10th Ave.	Michigan St. to Ohio St. (W. side)	Replace	2013	
10th Ave.	Quincy St. to Kansas St. (W. side)	Replace	2013	
10th Ave.	Ohio St. to Kansas St. (W. side)	Repair	2014	2013-766
10th Ave.	Quincy St. to Spruce St. (W. side)	Repair	2014	
Spruce St.	West Middle to 6th Ave. (N. side)	Repair	2014	
4th St.	Shawnee St. Intersection	ADA Ramps	2014	
6th St.	Cherokee St. Intersection	ADA Ramps	2014	
4th St.	Pottawomie St. to Cheyenne St. (E.&W.)	ADA Ramps	2014	2013-769
4th St.	Walnut St. to Shawnee St. (E.&W.)	ADA Ramps	2014	
Spruce St.	6th Ave. to Central Ave. (N.&S.)	ADA Ramps	2014	
4th Street	Limit St. to Evergreen St. (E.&W.)	ADA Ramps	2015	2014-789
	Marion St. to Rees St. (E.&W.)	ADA Ramps	2015	
	Linn St. to Pine St. (E.&W.)	ADA Ramps	2015	
4th Street	Osage St. to Dakota St. (E.&W.)	Repair	2015	2015-810 (CDBG)
Osage St.	4th St. to 2nd St. (N.&S.)	Replacement	2015	
Dakota St.	4th St. to 2nd St. (S. side)	Replacement	2015	
2nd St.	Osage St. to Dakota St. (W. side)	Replacement	2015	
18th St.	Spruce St. to 300' North (E. side)	Repair	2015	2015-812
20th St. Trafficway	Eisenhower Rd. to Spruce St. (W. side)	Repair	2015	
Spruce St.	Lawrence Ave. to 10th Ave. (N. side)	Repair	2015	
4th Street	VA Park to Oregon St. (E. side)	Repair	2015	
10th Ave.	Michigan St. to Miami St. (E.&W.)	Repair	2015	
Spruce St.	Lawrence Ave. to Central Ave (S. side)	New	2015	
10th Ave.	3 Mile Creek to Miami St. (W. side)	New	2015	
2nd St.	Poplar St. to Elm St. (W. side)	New	2016	2015-822
20th St. Trafficway	Eisenhower Rd. to Spruce St. (E. side)	Repair	2016	
4th Street	Oregon St. to Idaho St. (E. side)	Repair	2016	
10th Ave.	Spruce to Miami (W. side)	Repair	2016	
Hughes Rd.	EMS to N. of Assisted Living (W. side)	New	2016	
20th St. Trafficway	Tonganoxie Rd. to Limit (W. side)	New	2017	2016-845
20th Street	Dakota to Metropolitan (W. side)	New	2017	
New Lawrence Rd.	Limit St. to Wildwood St. (E. side)	New	2017	
Spruce St.	Columbia to 9th Ave. (S. side)	Fill-in	2017	
4th Street	Eisenhower Rd. to Commercial St. (E. side)	New	2017	
Tonganoxie Rd.	Shenandoah to 20th. St. Trafficway (N. side)	New	2017	
4th Street	Commercial St. to Muncie Rd. (E. side)	N/ Cost Share	2017	
Broadway St.	Kiowa St. to Dakota St. (W. side)	N/Eco Devo	2018	2017-876
Dakota St.	Broadway St. to 8th St. (S. side)	N/Eco Devo	2018	
8th St.	Dakota St. to Kiowa St. (E. side)	N/Eco Devo	2018	
Kiowa St.	8th St. to Broadway St. (N. side)	N/Eco Devo	2018	
Pennsylvania	2nd Ave to 5th St. (S. side)	New	2018	
Marion St.	Grand to 10th Ave. (S. side)	New	2018	
Grand	Vilas to Sherman (W. side)	New	2018	

Year	Amount
2002	\$6,027
2003	\$6,411
2006	\$11,361
2007	\$3,544
2008	\$10,874
2009	\$5,328
2010	\$2,875
2011	\$16,219
2012	\$4,590
2013	\$13,204
2014	\$12,211
2015	\$37,915
2016	\$44,135
2017	\$6,529
2018	\$7,308



2002	City Cost
800 Block Cherokee	\$ 4,000
319-321 Delaware (Hart Paint)	\$ 959
7th and Kiowa (Sidewalk & Handicap Ramps)	\$ 1,068
<b>Total</b>	<b>\$ 6,027</b>

2003	City Cost
401-405 Lawrence Avenue Citize	\$ 1,789
3rd and Shawnee (Commerical)	\$ 1,986
414 Vine Street (Citizen)	\$ 425
401 S. 5th Street (Salvation Army)	\$ 2,211
<b>Total</b>	<b>\$ 6,411</b>

2006	City Cost
724 Prospect	\$ 391
7th & Cherokee	\$ 2,010
1127 Holman St	\$ 550
3012 Lakeview	\$ 400
301 Cheyenne	\$ 5,010
200 Block of Cherokee	\$ 3,000
<b>Total</b>	<b>\$ 11,361</b>

2007	City Cost
514-518 Seneca	\$ 712
211 Pine	\$ 563
714 Prospect	\$ 401
1016 S Esplande	\$ 1,869
<b>Total</b>	<b>\$ 3,544</b>

2008	City Cost
219 Pine	\$ 1,313
722 S Broadway	\$ 3,465
530 Delaware	\$ 3,465
1016 5th Ave	\$ 538
903 Kickapoo	\$ 1,213
1021 Osage	\$ 125
1121 5th Ave	\$ 356
2705 Folsom	\$ 400
<b>Total</b>	<b>\$ 10,874</b>

2009	City Cost
1709 Thornton	\$ 453
217 S 7th St (Shine Car Care)	\$ 4,875
<b>Total</b>	<b>\$ 5,328</b>

2010	City Cost
206 Arch	\$ 800
1404 5th Ave	\$ 1,638
2400 16th Terr	\$ 438
<b>Total</b>	<b>\$ 2,875</b>

2011	City Cost
1st City Photo Shawnee	\$ 650
124 Grand	\$ 998
726 Kickapoo	\$ 683
744 Kickapoo	\$ 381
1044 5th Ave	\$ 2,463
1040 5th Ave	\$ 500
713 Fawn Creek	\$ 550
907 4th Ave	\$ 3,038
801 N 8th	\$ 713
800 S Broadway	\$ 650
520 S 4th	\$ 3,038
801 Spruce	\$ 1,165
1029 3rd Ave	\$ 130
309 Seneca	\$ 1,262
<b>Total</b>	<b>\$ 16,219</b>

2012	City Cost
801 S Boadway	\$ 1,600
1042 Wellington	\$ 150
601 Shawnee	\$ 475
526 & 528 Spruce	\$ 531
518 Shawnee	\$ 440
904 3rd Ave	\$ 888
903 Osage	\$ 256
1701 Thornton	\$ 100
2105 S 17th	\$ 150
<b>Total</b>	<b>\$ 4,590</b>

2013	City Cost
726 & 728	\$ 2,789
400 Seneca	\$ 4,428
2131 S 4th	\$ 2,175
409 Esplanade	\$ 188
301 Linn	\$ 688
716 N 18th	\$ 90
742 Kickapoo	\$ 264
101 S Broadway	\$ 403
805 8th St	\$ 500
1207 Ottawa	\$ 1,681
<b>Total</b>	<b>\$ 13,204</b>

2014	City Cost
KS Gas Limit St	\$ 2,995
1421 Columbia	\$ 330
1727 Dakota	\$ 350
1723 Dakota	\$ 790
221 Cherokee	\$ 413
301 4th St	\$ 270
3109 Lakeview Circle	\$ 140
3115 Lakeview Dr	\$ 275
89 Ash	\$ 1,488
108 Shawnee	\$ 500
433 Shawnee	\$ 536
928 Kickapoo	\$ 1,150
1723 Dakota	\$ 790
108 Shawnee Kens Gara	\$ 500
<b>Total</b>	<b>\$ 10,526</b>

2015	City Cost
7th and Delaware (ADA)	\$ 1,800
629 Delaware	\$ 4,799
906 Columbia	\$ 361
514 S 4th	\$ 1,838
1100 3rd Ave Ben Day	\$ 20,000
826 Delaware	\$ 2,175
202 Ottawa	\$ 738
3201 Grand	\$ 275
6th and Shawnee IMAC	\$ 878
733 Cheyenne	\$ 888
521 N 7th (Daycare)	\$ 4,165
<b>Total</b>	<b>\$ 37,915</b>

2016	City Cost
405 Choctaw St.	\$ 4,250.00
521 N. 7th St.	\$ 2,125.00
	\$ 2,040.00
1301 2nd Ave.	\$ 875.00
	\$ 7,000.00
706 N. 7th St.	\$ 3,300.00
	\$1,800.00
	\$1,200.00
732 Shawnee	\$364.51
	\$7,450.00
601 S. 5th St.	\$1,050.00
	\$1,650.00
605 Walnut St.	\$250.00
	\$5,350.00
706 N. 7th St.	\$3,250.00
	\$2,180.00
<b>Total</b>	<b>\$ 44,134.51</b>

2017	City Cost
323 Vine St.	\$1,150.00
2109 S. 17th St.	\$640.00
519 N. Broadway	\$2,681.25
600 Osage St.	\$350.00
319 Vine St.	\$887.50
2800 S. 14th St.	\$820.00
<b>Total</b>	<b>\$ 6,528.75</b>

2018	City Cost
320 S. 7th St.	\$960.00
938 W. 7th St.	\$337.50
	\$1,250.00
521 Linn St.	\$1,025.00
	\$937.50
417 N. Esplanade	\$2,500.00
520 Seneca	\$297.50
<b>Total</b>	<b>\$7,307.50</b>



**POLICY REPORT PWD 18-43  
REVIEW CURRENT REGION L MULTI-JURISDICTIONAL  
HAZARD MITIGATION PLAN AND CONSIDER MODIFICATIONS**

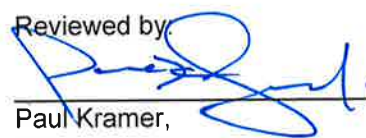
October 16, 2018

Prepared by:



Michael G. McDonald, P.E.,  
Director of Public Works

Reviewed by:



Paul Kramer,  
City Manager

**ISSUE:**

Review current Region L Multi-Jurisdictional Hazard Mitigation Plan and consider modifications.

**BACKGROUND:**

The Current Region L Multi-Jurisdictional Hazard Mitigation Plan (Plan) was completed in 2013. It is necessary to update the plan at least every five years to be current with FEMA requirements. Region L includes Leavenworth, Johnson and Wyandotte counties.

Creating the Plan is a national process, and contents of the plan are intended to meet the needs of local entities. The completed plan is the basis of application for mitigation funds from state and federal sources, and was instrumental in receiving funds for the wall at the River Front Community Center.

The entire document is about 900 pages and is available on line at:

[https://www.lvks.org/egov/documents/1539093939\\_18987.pdf](https://www.lvks.org/egov/documents/1539093939_18987.pdf)

Leavenworth County Emergency Management is coordinating the update for all public agencies (including school districts) within Leavenworth County. Key responsibilities for the City Commission during this update process are shown below and discussed in sections.

1. Ensure opportunities for public comment are part of the process.
2. Review the Prioritization Matrix and rating of various threats and recommend any changes.
3. Review the updated mitigation projects listing and recommend any changes.

**1. Public Participation:**

Public participation opportunities will be ensured by having this document discussed at two Commission meetings. In addition, the PIO (Public Information Officer) will prepare news releases and use social media to alert the public to the meetings.

**2. Prioritization Matrix:**

FEMA identified the threats shown below in 2013, and these have been evaluated regionally as shown in the Table 3.2 below. There were no real surprises in the rankings that show tornadoes, floods, winter storms and windstorms as the highest threat hazards for this area. Staff opinion is that the current threats are ranked in the appropriate order.

Profiled hazards, listed alphabetically, are:

Agricultural Infestation	Hailstorm	Soil Erosion and Dust
Civil Disorder	Hazardous Materials	Terrorism/Agro-Terrorism
Dam and Levee Failure	Land Subsidence	Tornado
Drought	Landslide	Utility/Infrastructure Failure
Earthquake	Lightning	Wildfire
Expansive Soils	Major Disease Outbreak	Windstorm
Extreme Temperatures	Radiological	Winter Storm
Flood		

## **Drought**

Colorado Owes Kansas for Water, Court Rules. Cortez Journal Online. June 12, 2001. <a href="http://cortezjournal.com/archives/1news1405.htm">http://cortezjournal.com/archives/1news1405.htm</a> .
Drought Impact Reporter. University of Nebraska–Lincoln National Drought Mitigation Center. <a href="http://droughtreporter.unl.edu">http://droughtreporter.unl.edu</a> .
Drought monitoring and technical assistance, National Drought Mitigation Center, University of Nebraska–Lincoln, <a href="http://www.drought.unl.edu/">http://www.drought.unl.edu/</a>
Drought Vulnerable Public Water Suppliers Assessment 2007 and 2012, Kansas Water Office
Federal Reservoirs with Water Supply Storage, Kansas Water Office, <a href="http://www.kwo.org/ReservoirInformation/Map_Federal_Lakes_State_Storage.pdf">www.kwo.org/ReservoirInformation/Map_Federal_Lakes_State_Storage.pdf</a>
Historic Droughts of Kansas. U.S. Geological Survey. 2005. <a href="http://ks.water.usgs.gov/Kansas/waterwatch/drought/historic.html">http://ks.water.usgs.gov/Kansas/waterwatch/drought/historic.html</a> .
Kansas Annual Precipitation Normals, Kansas State Research and Extension. Weather Data Library, <a href="http://www.ksre.ksu.edu/wdl/AnnualPrecipMaps.asp">http://www.ksre.ksu.edu/wdl/AnnualPrecipMaps.asp</a>
Kansas Drought Operations Plan, Governors Drought Team, June 2012
Kansas Drought Resources, Governor's Office, <a href="http://governor.ks.gov/kansasdrought-resources">http://governor.ks.gov/kansasdrought-resources</a>
Kansas Drought Stage Declarations, Kansas Water Office, <a href="http://www.kwo.org/Reports%20&amp;%20Publications/Drought/Tbl_drought_declarations_051107_twl.pdf">www.kwo.org/Reports%20&amp;%20Publications/Drought/Tbl_drought_declarations_051107_twl.pdf</a>
<i>Kansas Water Plan</i> , 2009 Kansas Water Office.
Major and Minor Aquifers in Kansas, Kansas State Geological Survey, <a href="http://www.kgs.ku.edu">http://www.kgs.ku.edu</a> .
National Integrated Drought Information System, National Oceanic and Atmospheric Administration, <a href="http://www.nidms.gov/">http://www.nidms.gov/</a>
United States Supreme Court Rules for Colorado in Republican River Dispute With Kansas. Press Release. December 7, 2004. <a href="http://www.ago.state.co.us/press_detail.cfm?pressID=53">www.ago.state.co.us/press_detail.cfm?pressID=53</a> .
U.S. Geological Survey Kansas Water Science Center. U.S. Geological Survey. <a href="http://ks.water.usgs.gov/index.shtml">http://ks.water.usgs.gov/index.shtml</a> .

## **Earthquake**

Earthquakes in Kansas. Kansas Geological Survey. <a href="http://www.kgs.ku.edu/Publications/GeoRecord/2001/vol7.3/Page1.html">www.kgs.ku.edu/Publications/GeoRecord/2001/vol7.3/Page1.html</a> .
Earthquake Scenario, HAZUS MH 2.1
HAZUS 99 Estimated Annualized Earthquake Losses for the United States. Federal Emergency Management Agency. FEMA 366. 2001. <a href="http://www.fema.gov/library/index.jsp">www.fema.gov/library/index.jsp</a> .
Recent Central US Earthquakes. Center for Earthquake Research and Information. September 7, 2007. <a href="http://folkworm.ceri.memphis.edu/recenteqs/">http://folkworm.ceri.memphis.edu/recenteqs/</a> .
U.S. Geological Survey, map generated by National Atlas of the United States, <a href="http://www.nationalatlas.gov/">www.nationalatlas.gov/</a>
U.S. Geological Survey Earthquake Hazards Program. <a href="http://earthquake.usgs.gov/regional/states/kansas/hazards.php">http://earthquake.usgs.gov/regional/states/kansas/hazards.php</a> .
Kansas Hazard Mitigation Plan DRAFT 3.585 2013

## ***Expansive Soils***

U.S. Geological Survey publication, [http://arcvoid.com/surevoid\\_web/soil\\_maps/ks.html](http://arcvoid.com/surevoid_web/soil_maps/ks.html)

U.S. News and World Report, Aug. 31, 2012

## ***Extreme Temperatures***

Extreme Heat. Centers for Disease Control and Prevention. <http://www.bt.cdc.gov/disasters/extremeheat/>

Heat Index Chart and typical health impacts of extreme heat, National Weather Service  
[www.weather.gov/os/heat/index.shtml](http://www.weather.gov/os/heat/index.shtml)

Kansas: Temperature Extremes, Information Please Database, Pearson Education, Inc.  
[www.infoplease.com/ipa/A0930179.html](http://www.infoplease.com/ipa/A0930179.html)

Kansas Environmental Public Health Tracking Program, Kansas Department of Health and Environment

*Kansas State Plan on Aging Federal Fiscal Years 2010–2013*, Kansas Department on Aging and Disability Services,  
[http://www.kdads.ks.gov/Publications/Publication\\_Index.html](http://www.kdads.ks.gov/Publications/Publication_Index.html).

Kansas State Research and Extension, Climatic Maps of Kansas, <http://www.ksre.ksu.edu/wdl/ClimaticMaps.htm>.

National Weather Service, Goodland, KS [http://www.crh.noaa.gov/news/display\\_cmsarchive.php?wfo=gld](http://www.crh.noaa.gov/news/display_cmsarchive.php?wfo=gld)

National Weather Service, Wichita, KS <http://www.crh.noaa.gov/ict/scripts/archives.php?reqYear=2012>

Wind Chill Chart, National Weather Service

Winter Weather, Centers for Disease Control and Prevention. <http://www.bt.cdc.gov/disasters/winter/>

## ***Flood***

HAZUS MH 2.1

*Kansas Commission on Emergency Planning and Response*, 2011 Annual Report: Managing the Risk

Kansas River Basins, USGS Fact Sheet, Water Use in Kansas, 1990-2000 by Joan F. Kenny and Cristi V. Hansaen,  
[http://pubs.usgs.gov/fs/2004/3133/pdf/fs04\\_3133.pdf](http://pubs.usgs.gov/fs/2004/3133/pdf/fs04_3133.pdf).

K-State Research and Extension, <http://www.ksre.ksu.edu/wdl/AnnualPrecipMaps.asp>

FEMA's Policy and Claim Statistics for Flood Insurance, <http://www.fema.gov/policy-claim-statistics-flood-insurance/policy-claim-statistics-flood-insurance/policy-claim-13>

Kansas Floodplain Management Newsletter, May 2009

[http://www.ksda.gov/includes/document\\_center/structures/Floodplain/may2009FP.pdf](http://www.ksda.gov/includes/document_center/structures/Floodplain/may2009FP.pdf)

Repetitive Loss/Severe Repetitive Loss, Flood Insurance Administration

Surface Water in Kansas and its Interactions with Groundwater, 2000,  
<http://www.kgs.ku.edu/HighPlains/atlas/atswqn.htm>

Various Flood Photos, Kansas Division of Emergency Management

Kansas Hazard Mitigation Plan DRAFT 3.586 2013

## **Hail**

Hail Basics. National Oceanic and Atmospheric Administration National Severe Storm Laboratory.  
[www.nssl.noaa.gov/primer/hail/hail\\_basics.html](http://www.nssl.noaa.gov/primer/hail/hail_basics.html)

Hailstorm Intensity Scale, Tornado and Storm Research Organization (TORRO), Department of Geography, Oxford Brookes University

## **Hazardous Materials**

Hazardous materials accidents statistics and top ranked worst case scenario facilities, Kansas Division of Emergency Management, Technological Hazards Section

Incident and Accident Data. U.S. Department of Transportation Office of Pipeline Safety.  
[http://primis.phmsa.dot.gov/comm/reports/safety/KS\\_detail1.html?nocache=3112](http://primis.phmsa.dot.gov/comm/reports/safety/KS_detail1.html?nocache=3112),

Kansas Department of Health and Environment, Division of Environment  
<http://www.kdheks.gov/environment/index.html>

Kansas gas transmission lines and petroleum pipelines, Kansas Corporation Commission

Kansas transportation routes, Kansas Department of Transportation

National Response Center. [www.nrc.uscg.mil](http://www.nrc.uscg.mil).

Pipeline mileage, U.S. Department of Transportation, Pipeline & Hazardous Materials Safety Administration  
[http://primis.phmsa.dot.gov/comm/reports/safety/KS\\_detail1.html?nocache=3112#\\_OuterPanel\\_tab\\_6](http://primis.phmsa.dot.gov/comm/reports/safety/KS_detail1.html?nocache=3112#_OuterPanel_tab_6)

Superfund National Priorities List Sites in Kansas. U.S. Environmental Protection Agency Superfund.  
[www.epa.gov/superfund/sites/npl/ks.htm](http://www.epa.gov/superfund/sites/npl/ks.htm).

## **Land Subsidence**

Aber, S. The Many Uses of Salt from the Earth. Emporia State University. 2007. [www.geospectra.net/salt](http://www.geospectra.net/salt).

Croxton, N. Subsidence on 1-70 in Russell County, Kansas Related to Salt Dissolution: A Short History. U.S. Department of Transportation Federal Highway Administration. 2005.  
[www.fhwa.dot.gov/engineering/geotech/hazards/mine/workshops/kdot/kansas02.cfm](http://www.fhwa.dot.gov/engineering/geotech/hazards/mine/workshops/kdot/kansas02.cfm)

Kansas Department of Health and Environment Abandoned Mine Land (AML) Program,  
<http://www.kdheks.gov/mining/emergency.html>

Karst Features in Kansas, U.S. Geological Survey, mapped by the National Atlas of the United States,  
[www.nationalatlas.gov](http://www.nationalatlas.gov)

Macfarlane, P., M. Townsend, and G. Ohlmacher. Midcontinent Meeting for the National Karst Map Project-Field Trip Notes. Kansas Geological Survey. 2005. [www.kgs.ku.edu/Hydro/Publications/2005/OFR05\\_50/OFR2005\\_50.pdf](http://www.kgs.ku.edu/Hydro/Publications/2005/OFR05_50/OFR2005_50.pdf).

Subsurface Void Space and Sinkhole/Subsidence Area: Inventory for the State of Kansas. Kansas Department of Health and Environment. 2006, <http://www.engg.ksu.edu/CHSR/outreach/tosnac/sites/docs/04.pdf>

Using multiple logistic regression and GIS technology to predict landslide hazard in northeast Kansas, USA, Ohlmacher, G. C.; Davis, J. C., 2003

WIBW.com: <http://www.wibw.com/home/headlines/1233947.html>

Kansas Hazard Mitigation Plan DRAFT 3.587 2013

### ***Landslide***

Kansas Geological Survey, <a href="http://www.kgs.ku.edu/Publications/AnnRep02/hazards/hazards.html">http://www.kgs.ku.edu/Publications/AnnRep02/hazards/hazards.html</a>
Ohlmacher, G. Landslides in Kansas. Kansas Geological Survey. 1999. <a href="http://www.kgs.ku.edu/Publications/pic13/pic13_1.html">www.kgs.ku.edu/Publications/pic13/pic13_1.html</a> .

### ***Lightning***

U.S. Lightning Fatalities by State, NOAA, <a href="http://www.lightningsafety.noaa.gov/stats/59-11_fatalities_rates.pdf">http://www.lightningsafety.noaa.gov/stats/59-11_fatalities_rates.pdf</a>
Vaisala, <a href="http://www.vaisala.com/en/products/thunderstormandlightningdetectionsystems/Pages/NLDN.aspx">http://www.vaisala.com/en/products/thunderstormandlightningdetectionsystems/Pages/NLDN.aspx</a>

### ***Major Disease Outbreak***

Annual Infectious Disease Summaries, Kansas Department of Health & Environment, Bureau of Surveillance and Epidemiology, <a href="http://www.kdheks.gov/epi/index.html">http://www.kdheks.gov/epi/index.html</a> .
Influenza health care workers vaccinations, Kansas Healthcare Collaborative
Pandemic Influenza Plan, Kansas Department of Health & Environment
U.S. Centers for Disease Control and Prevention

### ***Radiological***

Emergency Planning Zones, Kansas Department of Health and Environment
---

### ***Soil Erosion and Dust***

Federal Public Water Supply Reservoirs in Kansas, Kansas Water Office
Kansas State University's Wind Erosion Laboratory
Natural Resources Inventory: 2007 Annual NRI Report—Soil Erosion. Natural Resources Inventory, 2007, <a href="http://www.nrcs.usda.gov/technical/NRI/2007/2007_NRI_Summary.pdf">http://www.nrcs.usda.gov/technical/NRI/2007/2007_NRI_Summary.pdf</a> .
Wind Erosion Research Unit, U.S. Department of Agriculture Agricultural Research Service, <a href="http://www.weru.ksu.edu">www.weru.ksu.edu</a> .
USDA's Long Term Monitoring of Wind Erosion Induced Changes to Soil Properties in Western Kansas Study, <a href="http://topsoil.nserl.purdue.edu/~flanagan/isele2011/presentations/11113-Tatarko.pdf">http://topsoil.nserl.purdue.edu/~flanagan/isele2011/presentations/11113-Tatarko.pdf</a>

### ***Terrorism/ Agri-Terrorism***

Electronic Mass Casualty Assessment and Planning Scenarios (EMCAPS), Johns Hopkins University, 2006 <a href="http://www.hopkins-cepar.org/EMCAPS/EMCAPS.html">http://www.hopkins-cepar.org/EMCAPS/EMCAPS.html</a> Federal Bureau of Investigation
Gunman Kills Man in Church. New York Times. March 7, 1988.
Holiday Inn Sniper Remembered 30 Years Later. KSNW-TV. September 5, 2006.
Kansas Hazard Mitigation Plan DRAFT 3.588 2013

## **Tornado**

2012 Kansas Severe Weather Awareness Week packet
Enhanced Fujita Scale for Tornado Damage, National Weather Service, <a href="http://www.spc.noaa.gov/faq/tornado/ef-scale.html">www.spc.noaa.gov/faq/tornado/ef-scale.html</a>
Federal Emergency Management Agency. 2004. Taking Shelter from the Storm: Building a Safe Room inside Your House. Publication 320.
National Oceanic and Atmospheric Administration. National Severe Storms Laboratory. Severe Weather Primer: Tornado. <a href="http://www.nssl.noaa.gov/primer/tornado/tor_basics.html">www.nssl.noaa.gov/primer/tornado/tor_basics.html</a> .
National Oceanic and Atmospheric Administration. National Weather Service. Tornadoes. <a href="http://www.nws.noaa.gov/om/brochures/tornado.shtml">www.nws.noaa.gov/om/brochures/tornado.shtml</a> .
Mobile home units per county, U.S. Census Bureau American Community Survey 2005 – 2009.

## **Utility/Infrastructure Failure**

Coupler Clatter. Great Plains Dispatcher. September 2006. <a href="http://www.gptm.us/dispatcher/06_09.pdf">www.gptm.us/dispatcher/06_09.pdf</a> .
General Information, Kansas Corporation Commission
General Information, Federal Energy Regulatory Commission
Highway Map, Kansas Department of Transportation
Loss of Service for Utilities and roads/Bridges, FEMA BCA Reference Guide, June 2009, Appendix C
Kansas 2009 Energy Report <a href="http://kec.kansas.gov/energy_plan/09Plan-Ch8-Section8_1.pdf">http://kec.kansas.gov/energy_plan/09Plan-Ch8-Section8_1.pdf</a>
Telephone Exchange Areas, Kansas Corporation Commission, <a href="http://www.kcc.state.ks.us/maps/ks_telephone_certified_areas.pdf">http://www.kcc.state.ks.us/maps/ks_telephone_certified_areas.pdf</a>
Top Ten Lists—Oil and Gas Production. Kansas Geological Survey. May 31, 2007. <a href="http://www.kgs.ku.edu/PRS/Info/topTen.html">www.kgs.ku.edu/PRS/Info/topTen.html</a> .
Water Suppliers, Kansas Water Office, <a href="http://www.kwo.org/Kansas_Water_Plan/KWP_Docs/Volumell/Statewide/map_statewide_KWP_PWS_090508_tr.pdf">http://www.kwo.org/Kansas_Water_Plan/KWP_Docs/Volumell/Statewide/map_statewide_KWP_PWS_090508_tr.pdf</a>

## **Wildfire**

Firewise Communities, Kansas Firewise Community <a href="http://submissions.nfpa.org/firewise/fw_communities_list.php">http://submissions.nfpa.org/firewise/fw_communities_list.php</a>
Kansas Forest Action Plan, Kansas Forest Service/ Kansas State University, Manhattan, Revised October 2011, <a href="http://www.kansasforests.org/assessment.shtml">http://www.kansasforests.org/assessment.shtml</a>
National Fire Incident Reporting Statistics, Kansas Forest Service
National Interagency Fire Center Predictive Services, <a href="http://www.predictiveservices.nifc.gov/outlooks/monthly_seasonal_outlook.pdf">http://www.predictiveservices.nifc.gov/outlooks/monthly_seasonal_outlook.pdf</a>
National Weather Service. 2007 Kansas Severe Weather Awareness Week Information Packet. 2007. <a href="http://www.crh.noaa.gov/Image/top/2007KANSAS.pdf">www.crh.noaa.gov/Image/top/2007KANSAS.pdf</a> .
Topeka Capital-Journal, <a href="http://cjonline.com/news/2012-09-02/wildfire-activity-unique-extreme-dry-kansas-summer">http://cjonline.com/news/2012-09-02/wildfire-activity-unique-extreme-dry-kansas-summer</a>
Kansas Hazard Mitigation Plan DRAFT 3.589 2013
□ Ward, K. 1st Wildfire Prevention Week March 25-31 across Kansas. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. Press Release. March 15, 2007. <a href="http://www.oznet.ksu.edu/news/sty/2007/wildfire_prevention031507.htm">www.oznet.ksu.edu/news/sty/2007/wildfire_prevention031507.htm</a> .

## **Windstorm**

Damaging Winds Basics. National Oceanic and Atmospheric Administration National Severe Storm Laboratory. <a href="http://www.nssl.noaa.gov/primer/wind/wind_basics.html">www.nssl.noaa.gov/primer/wind/wind_basics.html</a> .
---

## **Winter Storm**

Average Annual Snowfall, Kansas State University, Research and Extension, Weather Data Library, <a href="http://www.oznet.ksu.edu/wdl/Maps/Climatic/AnnualFreezeMap.asp">www.oznet.ksu.edu/wdl/Maps/Climatic/AnnualFreezeMap.asp</a>
--

—Freezing Rain Events in the United States. American Meteorological Society,  
<http://ams.confex.com/ams/pdfpapers/71872.pdf>.

Kansas snowfall and snow depths extremes, National Data Climatic Center Snow Climatology,  
<http://www.ncdc.noaa.gov/ussc/USSCAppController?action=extremes&state=14>

Winter Storms: The Deceptive Killers. National Oceanic and Atmospheric Administration. National Weather Service.  
2001. [www.nws.noaa.gov/om/winterstorm/winterstorms.pdf](http://www.nws.noaa.gov/om/winterstorm/winterstorms.pdf).

Winter storm descriptions, National Weather Service.

Hazard Type	Probability	Magnitude	Warning Time	Duration	CPRI	Planning Significance
Tornado	4	4	4	1	3.70	High
Flood	4	3	3	4	3.55	High
Winter Storm	4	3	2	3	3.30	High
Windstorm	4	2	3	2	3.05	High
Utility Infrastructure Failure	4	1	4	3	3.00	High
Drought	4	2	3	4	2.95	Moderate
Hazardous Materials	4	1	4	2	2.90	Moderate
Lightning	4	2	2	1	2.80	Moderate
Wildfire	4	1	4	1	2.80	Moderate
Civil Disorder	2	4	4	1	2.80	Moderate
Major Disease Outbreak	2	4	1	4	2.75	Moderate
Hailstorm	4	1	2	1	2.65	Moderate
Terrorism/Agro-terrorism	1	4	4	4	2.65	Moderate
Extreme Temperatures	3	2	1	4	2.50	Moderate
Agricultural Infestation	3	2	1	4	2.50	Moderate
Expansive Soils	3	1	1	4	2.20	Moderate
Dam and Levee Failure	1	3	3	3	2.10	Moderate
Radiological	1	3	3	3	2.10	Moderate
Landslide	1	2	4	1	1.75	Low
Soil Erosion and Dust	2	1	1	4	1.75	Low
Earthquake	1	2	4	1	1.75	Low
Land Subsidence	1	1	3	2	1.40	Low

Since 2013 FEMA has added the following threats that must be considered. City staff has created the ranking shown below for the new threats:

- **Cyber Threats are ranked as a 2.3** using the current methodology and threat assessment
  - Possible = 2 (1/5yrs)
  - Severity = 2 (one week impact)
  - Warning Time = 4 (less than 4 hours)
  - Duration = 2 (less than a day)
  
- **Climate Change is ranked as a 1.3** using the current methodology and threat assessment
  - Possible = 1 (unlikely in 10 years)
  - Severity = 1 (less than 10% of properties impacted)
  - Warning Time = 1 (more than 24 hours)
  - Duration = 4 (more than a week)

3. **Mitigation Projects:** A summary of current projects (2013 Plan) and status is shown below.

**2013 Plan – City of Leavenworth Mitigation Items**

1. Identify Flash Flood areas and address in planning process - **Active**
- 1a Continue NFIP (Flood Plain Management) – **Active**
2. Identify and Acquire repetitively flooded properties using FEMA grants – **Active**
3. Seek portable dam for RFCC protection – this became the wall at RFCC – **Complete**
4. Seek Portable Dam for WWTP protection – **Active**
5. Construct new Animal Control Building out of flood plain – **Completed**

Staff proposes that 1, 1a, 2 and 4 remain on the mitigation project list.



It is expected that the City will review the status of City efforts toward current and new threats and identify mitigation programs that may have merit. Staff recommends that the following items be added to the mitigation list for the 2018 Plan:

**(Proposed) 2018 Plan – City of Leavenworth Additional Mitigation Items**

- Stormwater Management Program with associated fees
- Fire Suppression and Mutual Aid arrangements
  - Upgrade Fire Suppression Capabilities, especially related to wildfires
  - Review, update and expand Mutual Aid Agreements
- Active Shooter
- Construction and Protection of critical infrastructure using stormwater and CIP funds
  - Protect sewer and storm sewer lines from creek erosion
  - Replace undersized creek and stream crossings with modern structures
- Evaluate and report relationship between rainfall and streamflow through monitoring program
- Keep Building Codes Current
- City participation in FEMA Community Rating System (CRS)

**RECOMMENDATION:**

Staff recommends that the City Commission:

1. Encourage public participation in preparation of the plan
2. Concur with the general ranking of existing and new hazards
3. Concur with the deletions and additions to the City mitigation plan.

Attachments:

Selected pages from the Region L Hazard Mitigation Plan

	engineered storm water channel within the city limits of Lansing. The City of Lansing has identified the need for design and reconstruction of the engineered storm water channel located in the Holiday Hills neighborhood.				Delayed due to lack of local funding and staff reductions		<b>Funds:</b> Local, Grant <b>Completion Date:</b> 3
6	Research and fund engineering services for a city-wide storm water infrastructure-needs assessment. The City of Lansing has identified the need for professional services to perform a storm water infrastructure needs assessment throughout the City of Lansing.	H	1,2	Flood	On-going	Public Works Director	<b>Cost:</b> \$150,000 <b>Funds:</b> Local, Grant <b>Completion Date:</b> 31 Dec 2015
7	Research funding options for professional services and construction of stream bank stabilization on Nine Mile Creek and Seven Mile Creek within the city limits of Lansing. The City of Lansing has identified a need for professional services and construction for stream bank stabilization at various location on Nine Mile Creek and Seven Mile Creek where bank erosion threatens public utilities or private improvements.	M	1,2	Flood	On-going, Delayed due to lack of local funding and staff reductions.	Public Works Director	<b>Cost:</b> \$200,000 <b>Funds:</b> Local, Grant <b>Completion Date:</b> 6
8	Seek contractors proposal to perform maintenance activities along Nine Mile Creek and Seven Mile Creek within the city limits of Lansing. The City of Lansing has identified a need for contractor removal or deadfall and/or log jams from Nine Mile Creek and Seven Mile Creek within the city limits of Lansing.	M	1,2	Flood	On-going	Public Works Director	<b>Cost:</b> Unknown <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> 31 Dec 2015
9	Seek contractors proposal to perform storm water quality monitoring in the City of Lansing. The City of Lansing has identified a need to have a contractor perform storm water quality monitoring on a routine basis within the City of Lansing.	M	1,2	Flood	On-going, delayed due to lack of funding and staff reductions	Public Works Director	<b>Cost:</b> Unknown <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> 31 Dec 2014

Leavenworth County - City of Leavenworth							
Action ID	Action/Description	Priority	Goal(s)	Hazard Addressed	Status	Responsible Entity	Estimated Cost and funding Source

Region L Hazard Mitigation Plan, 2013

Final

4.86

			Addressed				
1	Identify flash-flood prone areas to consider flood reduction measures to city planners. Flood zone mapping has provided initial identification of potential hazard areas that can be reviewed with other data sources, such as the watershed districts goals and objectives, in developing long range planning activities for flood prevention, or other planning steps to reduce exposure to this hazard.	H	1,2	Flood	On-going	City Planner, Floodplain Manager, Public Works Director	<b>Cost:</b> None <b>Funds:</b> Local <b>Completion Date:</b> 31 Dec 2015
1a	Continue NFIP participation in accordance with regulatory guidelines. Continue NFIP participation in accordance with regulatory guidelines. We regulate development in floodplains and have adopted and enforce floodplain management regulations that meet or exceed the minimum requirements of the program.	H	1,2	Flood	On-going	Floodplain Manager	<b>Cost:</b> None <b>Funding:</b> None <b>Completion Date:</b> Continuous
2	Reduce danger and damage from repetitive flooding events by developing a program to acquire residential and commercial properties in coordination with FEMA acquisition programs. There has been a history of repetitive flooding of residential and commercial buildings in several locations in the City of Leavenworth. Flooding events occur in these areas due to a sustained duration of High intensity rainfall and to elevated water levels of the Missouri River, Three Mile Creek, and a tributary of Five Mile Creek. This has caused significant danger to both residents and emergency personnel, as well as damage to homes and businesses. Flooding in these areas is related to sustained duration of high intensity rainfall as well as high water in the Missouri River. These residential and commercial properties were flooded in 1985, 1993, 1998, and 2005, as well as 13 additional historic flood events. The City of Leavenworth has identified these properties as 35 residential structures, at an	M	1,2	Flood	On-going	City of Leavenworth	<b>Cost:</b> Varies <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> continuous

	estimated acquisition cost of \$2,450,220, and 22 commercial structures, at an estimated acquisition cost of \$2,007,570. One residential structure and one commercial structure appear on the Repetitive Loss Properties list for the City of Leavenworth and are reported to have flood insurance; the remaining structures targeted for acquisition activities by the City of Leavenworth do not appear to have flood insurance and do not appear on the Repetitive Loss Properties list for the City of Leavenworth.						
3	Seek funding to purchase a portable dam system to reduce exposure from flooding to the Leavenworth Community Center. The Leavenworth Community Center, located at 123 South Esplanade, is listed on the National Register of Historic Places, and is a focal point of social and community activity in the City. Flooding events are attributed to elevated water levels of the Missouri River. The building was flooded in 1951; was protected from flooding in 1993 by a large sandbag wall; and protected by a rented portable dam system in 2007. Given its location and flood history, it is expected to be threatened by flooding in the future. Flooding of this building will damage a historic structure and repair costs are expected to be significant.	M	1,2	Flood	On-going, appealing project denial by FEMA	City of Leavenworth	<b>Cost:</b> Unknown <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> 31 Dec 2015
4	Seek funding to purchase a portable dam system to reduce exposure from flooding to the City of Leavenworth Wastewater Treatment Plant. The City of Leavenworth Wastewater Treatment Plant, located on South 2nd Street, suffers flooding events primarily related to the elevation of the Missouri River. It is also subject to flooding if a high-intensity event occurs in the Five Mile Creek drainage basin while the Missouri River elevations are up. The facility suffered extensive flood damage in	M	1,2	Flood	On-going	City of Leavenworth	<b>Cost:</b> Unknown <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> 31 Dec 2015

	1993. The facility was expected to be flooded in 2007 and was protected by a sandbag wall. Flood damage to the facility causes untreated wastewater to be discharged to the Missouri River; repair costs are estimated to be significant.						
5	Seek funding to construct a new City of Leavenworth Animal Control Shelter Building to replace the existing structure which is susceptible to repeated flooding events. The City of Leavenworth Animal Control Shelter Building, located on South 2nd Street, suffers flooding events primarily related to the elevation of the Missouri River. It is also subject to flooding if a High intensity event occurs in the Five Mile Creek drainage basin while the Missouri River elevations are up. The facility suffered extensive flood damage in 1993. The facility was predicted to be flooded in 2007 and was protected by a sandbag wall. Damage to the Animal Control building causes significant disruption of service for animal control activities in Leavenworth and Leavenworth County. This facility serves as an animal shelter and alternative housing for the animals, who must be relocated each time it is threatened with flooding.	L	1,2	Flood	On-going	City of Leavenworth	<b>Cost:</b> Unknown <b>Funds:</b> Local, State, Federal <b>Completion Date:</b> 31 Dec 2014

Leavenworth County – City of Linwood							
Action ID	Action/Description	Priority	Goal(s) Addressed	Hazard Addressed	Status	Responsible Entity	Estimated Cost and funding Source
1	Identify flash-flood prone areas to consider flood reduction measures to city planners. Flood zone mapping has provided initial identification of potential hazard areas that can be reviewed with other data sources, such as the watershed districts goals	H	1,2	Flood	On-going	Planning Board Commissioner	<b>Cost:</b> Unknown <b>Funds:</b> Local <b>Completion Date:</b> 31 Dec 2015

Region L Hazard Mitigation Plan, 2013

Final

4.89

**POLICY REPORT PWD No. 18-45  
REVIEW THE SNOW AND ICE CONTROL POLICY AND SUPPORTING PLAN  
PUBLIC WORKS DEPARTMENT**

**October 16, 2018**

Prepared by:



Michael G. McDonald  
Director of Public Works

Reviewed by:



Paul Kramer, City Manager

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Curtis Marks, Sr.  
Operations Superintendent

**ISSUES:**

Review the Snow and Ice Control Policy and Supporting Plan.

**BACKGROUND:**

The City Commission reviews the Snow and Ice Control Policy and Supporting Plan annually. The plan was written in October 1993 and is updated periodically.

The City will coordinate with internal resources and local media to distribute this information. This includes the Leavenworth Times, and Ft. Leavenworth Public Affairs Office. The emergency snow routes will also be broadcast on Channel 2 (local cable access channel) and social media as appropriate.

A complete copy of the Snow and Ice Control Plan is available at the Municipal Service Center, library and on the City webpage.

A pre-snow season meeting was held on October 2, 2018 with City staff, school district personnel, City of Lansing personnel, and Leavenworth County personnel to discuss and coordinate areas of responsibility. Discussions with the contractor, KDOT, and Fort Leavenworth personnel will occur in the next few weeks.

**POLICY:**

The City Commission has consistently placed a high priority on snow and ice control operations.

**STAFF RECOMMENDATIONS:**

Staff recommends that the City Commission review the current Snow and Ice Control Policy.

**EXECUTIVE SESSION**

**DISCUSS PERSONNEL MATTERS OF NONELECTED PERSONNEL**

**OCTOBER 16, 2018**

**CITY COMMISSION ACTION:**

**Motion:**

Move that the City Commission recess into executive session pursuant to the *nonelected personnel matters* exception per K.S.A. 75-4319 (b) (1), in order to discuss the City Manager contract renewal. The open meeting to resume in the City Commission Chambers at \_\_\_\_\_ by the clock in the City Commission Chambers. HR Director Lona Lanter is requested to be present during the Executive Session.