



Kane County Natural Hazards Mitigation Committee

Annual Report
For
2016

TO: Members of the Kane County Board
FROM: Kane County Natural Hazards Mitigation Committee
Co-Chair Sean Madison
Deputy Director Office of Emergency Management
madisonsean@co.kane.il.us
Co-Chair Cecilia Govrik
Resource Management Coordinator
Environmental and Water
Resources Division
govrikcecilia@co.kane.il.us

SUBJECT: Annual Report for 2016
DATE: January 4, 2017

Kane County is subject to natural hazards that threaten life and health and have a history of causing extensive property damage. To better understand these hazards and their impacts on our communities, the County's Division of Environmental & Water Resources and Office of Emergency Management jointly undertook the creation of the Kane County *Natural Hazards Mitigation Plan*.

The *Plan* identifies activities that can be undertaken to reduce safety and health hazards along with property damage caused by natural hazards. It focuses on the five major natural hazards that threaten Kane County: floods, tornadoes, earthquakes, thunderstorms and winter/ice storms.

The full Natural Hazards Mitigation Plan can be reviewed or downloaded at http://www.kcoem.org/kcoem_003.htm

On October 14, 2003 the Kane County Board passed resolution 03-308 adopting the Natural Hazards Mitigation Plan. A provision in this resolution requires the committee to submit an annual written report to the County Board, summarizing the *Plan's* implementation status for the preceding year.

The following is our report for 2016:

A. A review of the original Plan.

Kane County has been subject to a variety of natural hazards over the years including tornadoes, floods, ice storms, blizzards, severe thunderstorms and high wind events. The County's Emergency Operations Plan takes these types of events into account and identifies appropriate response activities.

The Disaster Mitigation Act of 2000 states that after November 1, 2003, local governments applying for pre-disaster mitigation funds must have an approved local mitigation plan. After November 1, 2004, a mitigation plan will also be needed before applying for post-disaster mitigation funds under the Hazard Mitigation Grant Program.

In 2002, the County Board approved the creation of a Natural Hazards Mitigation Plan planning committee. The Committee met monthly from October 2002 through September 2003 to develop the plan that was presented to and approved by the Board in October 2003. The Committee identified 17 key action items for implementation.

The ongoing portions of the action items have been started and will continue through the life of the Plan.

B. A review of natural disasters during 2016.

No natural disasters occurred in Kane County during 2016.

C. A review of the action items.

Although the original plan identified 17 key action items the current plan identifies 15 items. One of the original action items, Critical infrastructure, has been completed and two others that were very similar have been combined into one.

1. Building Code Improvements

Adopt the latest International series of codes, the new national standard that is being adopted throughout the country.

Status:

- Batavia, City of
 - The City is in the process of adopting the 2015 ICC Building Code. Projected completion in 2017.
- Burlington, Village of
 - It has been noted that this item requires our attention to possible abandoned properties that may (or already do) present hazards to residents as the property deteriorates into a situation of structure failure and rodent infestation. We have applied for grants to pursue demolition to eliminate the concern to local residents, after utilizing legal avenues of acquiring the properties so identified.
- Elgin, City of
 - The 2015 International codes were all evaluated by the Fire Department's Fire Prevention Bureau and City's Building Department. Currently awaiting final approval from the Legal Department.
- Lily Lake, Village of
 - The Village has adopted the 2015 ICC codes.
- South Elgin, Village of
 - The Village of South Elgin has adopted the 2015 International Code Series. The Village maintains an ISO Rating of 4/4.

- St. Charles, City of
 - The City has adopted, per Ordinance Number 2010-M-42 the 2009 International Building Code (Multi-Family/Commercial) and per Ordinance Number 2010-M-43 the 2009 International Residential Code (Single Family).

2. Improved Code Enforcement

Develop and conduct training for building department staff on the natural hazards aspects of the International Codes, regulation of mobile home installation, and the new County storm water management ordinance and its flood protection, wetland protection, erosion and sediment control and best management practices provisions.

Status:

- Kane County Division of Environmental & Water Resources
 - In March staff participated in one of FEMA's Hazard Mitigation Assistance webinars on Climate Resilient Mitigation Activities.
 - In April, the Kane County Division of Environmental & Water Resources and the Illinois Department of Natural Resources held a training session on how to use the Substantial Damage Estimator (SDE) Software to help communities provide timely substantial damage determinations after a flood. A total of 37 attendees representing eight different communities from throughout the county attended the training—including 11 Kane County staff members from the Environmental & Water Resources, Development & Community Services, and Emergency Management departments.
 - In October, Kane County hosted a Public Roads Deicing Workshop to inform communities about roadway Best Management Practices during winter weather. A total of 75 people attended the workshop, including 12 staff members from the Division of Environmental & Water Resources, Division of Transportation, Health Department, and the Forest Preserve District.
- Elgin, City of
 - Staff attended training on flood management at the IEMA conference in Springfield.
 - The Fire Department will be providing company level training on a new inspection program that will be implemented in 2017.
- South Elgin, Village of
 - The Village floodplain manager annually attends the statewide flood conference as well as regional and local training.

3. Review of Plans and Development Regulations

When they are up for revision; comprehensive plans, land use plans, and zoning and subdivision ordinances should incorporate mitigation provisions.

Status:

- Kane County Division of Environmental & Water Resources
 - In March, the Kane County Development Department and Kane County Division of Environmental & Water Resources held the second meeting to increase coordination between the departments with regard to building improvements in the floodplain. The group implemented procedures to identify floodplain properties and document improvements. A substantial damage/substantial improvement form was implemented and the paperwork for required documentation is vetted by the Building Department and Water Resources.
 - In October, the Kane County Board approved the allocation of Grand Victoria Riverboat funding for revising the Kane County Stormwater Ordinance during FY2017.
- Carpentersville, Village of
 - Village specific project: Carpenter Park Master Plan which, once constructed, would preserve open space within the Village's floodplain in areas of the park. Additional improvements to the park include stabilization of the existing banks of Carpenter Creek as well as infiltration basins to allow water to infiltrate rather than running off down-stream.
 - Status: OSLAD funding was released by the Governor and the project is currently under construction, the anticipated completion date for this project is the spring/early summer of 2017.
- South Elgin, Village of
 - The Village continues to work with CMAP to develop a Unified Development Ordinance. This Ordinance will include open space, floodplain, and other mitigation provisions. All new projects in the Village are reviewed with the appropriate departments and the Village Engineers.

4. Retrofitting Incentives

Establish a program of technical assistance and financial incentives to encourage property protection measures on private property, such as:

- Surface and subsurface drainage improvements
- Berms and regrading for shallow surface flooding
- Sewer backup protection
- Relocating furnaces and water heaters out of basements
- Tornado safe rooms
- Installing lightning rods

Status:

- Kane County Division of Environmental & Water Resources
 - Property owners can seek technical assistance from the Division to aid in solving drainage issues on individual properties—such as

with the redirection of downspouts, sump pumps, construction of rain gardens, dry wells, etc. In 2016, the Division provided assistance on 21 flood plain inquiries and 35 drainage complaints.

- Burlington, Village of
 - There have been no requests made this year; however, we continue to work with any resident working on driveway improvements in conjunction with replacing driveway drainage culverts with reimbursement to the property owner for the material cost of the culvert.
- St. Charles, City of
 - The City of St. Charles continued to offer residents a program to reimburse them up to 50% of the cost, up to \$2,500 total, to install backflow prevention on their sewer service. This program is meant to help residents that have experienced past problems with sewerage backups.

5. Repetitive Loss Projects

Protect the buildings in repetitive loss areas 7, 8, 9, 12 and 14. These are the top priority areas based on the flood hazard and type of construction, as explained in the criteria on page 5-12. Acquisition is the recommended property protection approach for areas 7, 8, 9, and 12 and elevation is recommended for areas 9, 12 and 14. Properties in the other repetitive loss areas could be protected by retrofitting measures that could be funded for much less under the cost share program proposed in action item 5.

Status:

- Kane County Division of Environmental & Water Resources
 - Kane County continues to monitor the need for additional flood prone property protection, especially with regards to repetitively flooded properties. No repetitive loss projects were completed by Kane County during 2016 in repetitive loss areas 8 or 9, however Kane County has been working with an engineering firm to improve drainage and create storage in the watershed in area #11—Lindenwood. The engineering firm is currently finalizing plans for a regional detention facility and the township road district is working on a surface conveyance system with the downstream property owner.
- Burlington, Village of
 - The Village was able to finalize contracts, obtain local financing, and complete the Water Tower Rehabilitation for a final cost of approximately \$364,000 to extend the life of the tower and greatly reduce the negative effect of a catastrophic failure.
- South Elgin, Village of
 - The Village sends out direct mailings to all repetitive loss properties and special flood hazard areas annually.

6. **Drainage Maintenance**

Implement a formal and regular drainage system maintenance program.

Status:

- Kane County Division of Environmental & Water Resources
 - Division staff provided technical assistance upon request to local governments and citizens with drainage problems throughout unincorporated Kane County. Water Resources staff are currently developing a maintenance seminar for HOAs jointly with the Village of Campton Hills. In addition, work is underway to provide inspection of the SSA basins in 2017 and further the HOA database. Lastly, the Division is developing a program to identify HOAs that are not active or were never established during the economic downturn and are working with the residents to activate the HOAs or begin levies on the SSA for the necessary maintenance.
- Kane County Division of Transportation
 - Has swept approximately 85 miles of curbing and 40 bridge decks on a regular monthly interval.
 - This year KDOT added a vac/jetter truck to the vehicle fleet. They have cleaned out all the catch basins in the north part of the County.
- Batavia, City of
 - 2016 was the city's first year of enhanced spending for drainage system improvements.
- Burlington, Village of
 - We completed the 3rd year of contracted services for maintaining the Meadows Pond to provide proper drainage into the designated wetland overflow area. Regular attention to the overflow area is of great concern to maintain proper vegetation for the effectiveness of the system.
- Carpentersville, Village of
 - Public works has initiated a catch basin cleaning program which consists of cleaning approximately 20% of the storm water catch basins annually. In addition, all streets on the west side of the Village are swept a minimum of 4 times annually, while on the east side of the Village the streets are swept a minimum of 5 times annually. These efforts minimize the amount of debris that enters the storm water system.
 - The Public Works Department removed fallen trees and debris from the drainage ditch within Keith Andres Memorial Park.
 - The village budgeted \$120,000 to conduct a Phase I Preliminary Engineering study to survey and provide streambank stabilization options and potentially apply for an IEPA – section 319 grant.

- Elgin, City of
 - The City regulates and enforces drainage maintenance and water retention as required by Kane County's Stormwater Management Ordinance and FRWRD.
 - Several initiatives were accomplished in 2016, including:
 - 100,000 feet of storm pipe cleaned
 - 1959 catch basins cleaned
- Lily Lake, Village of
 - Continued repairs in various drainage areas in the Village.
- South Elgin, Village of
 - The Village maintains all 4,800 inlets, open ditches, and detention ponds. A Vactor/Jetter truck was used to clean manholes and storm sewers throughout 2016.
- St. Charles, City of
 - Ongoing inspection and monitoring of all open channels within the City. Cleanup of debris as needed.
 - Ongoing monitoring of 7th Avenue Creek at Illinois, 8th and 9th Avenues.
 - Detention basin inspections, both public and private, were conducted through the Community Development Department. Letters were sent to property owners if pond maintenance was required.
 - "No Dumping in Stream" signs are maintained at various waterway locations within the City.

7. **Urban Forestry**

Implement an urban forestry program that qualifies the municipality to become a Tree City, USA.

Status:

- Kane County Division of Transportation
 - Performs brush and tree trimming and removal along the County right of way on a regular maintenance schedule. This year KDOT brushed most of the County roads within the middle section of the County.
- Aurora, City of
 - The City of Aurora maintains its Tree City USA designation.
- Burlington, Village of
 - Ten trees included in the certified arborist inspection of 2015 were re-inspected and removed to contain the spread of the Emerald Ash borer. Although we do not have a tree replacement program, we will be pursuing the grinding of the stumps and re-seeding the areas for those property owners affected by the parkway trees that were removed.

- Carpentersville, Village of
 - The Village was designated as a Tree City USA community for the fourth consecutive year.
 - To date (November 14, 2016), utilizing in-house staff, the Village has removed approximately 2,000 small to medium diameter ash trees.
 - Funds in the amount of \$100,000 were allocated within the 2017 fiscal year for a tree replacement program.
 - The Village is also continuing the established Emerald Ash Borer (EAB) cost-sharing program in which a resident that lost an ash tree can purchase and plant another tree and be reimbursed by the Village. This will be an on-going budget item until all trees that have been lost due to the EAB have been replaced. A total of 4 trees were replaced as part of the Village's EAB cost sharing program in 2016.
 - A total of 222 trees were replaced as part of the Village's Fall Tree Replacement Project.
 - The Village installed 16 parkway trees as part of Ball Avenue Extension Project.
- Elgin, City of
 - The City of Elgin had the Tree City, USA designation for many years until 2013. The City is in the process of submitting the application now with the intent of reestablishing that title in 2017.
 - The City planted a total of 540 trees in municipal owned right of ways, parkways, and parks in 2016.
 - Currently, the City has a contract with a professional tree service to trim the trees located on municipal parkways, with that intent that every tree is touched on a five to seven year rotation.
 - The City also has a contract with a professional tree removal company to address any hazardous trees and trees with Emerald Ash Borer (EAB).
- Lily Lake, Village of
 - The Plan Commission continues to discuss becoming a Tree City.
- South Elgin, Village of
 - The Village trims 20% of the parkway trees each year. Approximately 66 new trees are planted each year. Public Works offers free branch pick up to residents on the first and third full week of each month, year round.
- St. Charles, City of
 - St. Charles has been and continues to be a Tree City, USA recipient. The City removed 194 trees and planted 350 in 2016.

8. Flood Warnings

Review the gauging system in the County, especially the western rural areas, to determine where additional rain and stream gages would be worthwhile.

Status:

- Kane County Division of Environmental & Water Resources
 - The Division continued to support the operation and maintenance of rain and stream gages throughout the County by re-appropriating \$53,900 in FY16 funds under a Joint Funding Agreement with the U.S. Geological Survey covering a time period of October 1, 2015 through September 30, 2016.
- Elgin, City of
 - Elgin's OEM is evaluating a proposal from Riverside Technologies that would provide historical, real-time, and scenario-based flood inundation maps. This would give the City a better understanding of what's happened in the past, provide the ability to act quickly in real time, and plan for the future.
- South Elgin, Village of
 - The Village worked with WBK, Wills Burke Kelsey Associates from Saint Charles, Illinois to evaluate areas of flooding and designed remedies. Staff has identified flooding issues caused by newly constructed Bowes Road construction activities.

9. Improved Emergency Response

Conduct a review of emergency response plans and programs to:

- Ensure that each municipality has an emergency management coordinator or liaison.
- Identify where additional activities are needed to respond to natural hazards, especially activities that can be undertaken after a flood warning and before the flood arrives.
- Ensure there is adequate and current information on critical facilities.
- Incorporate post-disaster procedures for public information, reconstruction regulation and mitigation project identification.
- Conduct a table top exercise at least once a year
- Identify what rural areas could use additional warning capabilities.

Status:

- Kane County Office of Emergency Management:
 - The Office of Emergency Management created a five year Strategic Plan to ensure continued effectiveness in the delivery of emergency management services to the County. The Plan is designed to improve the efficiency of emergency management efforts by:
 - Focusing on high-priority needs.
 - Reducing or eliminating redundant efforts.
 - Emphasizing an all-hazards approach to preparedness.
 - Strengthening coordination and communication among private, public, and non-profit emergency management stakeholders.

- Sponsored a severe weather spotter's class at the Batavia Library open to the public.
- Conducted a weather safety class for the Fox Valley Squadron of the Civil Air Patrol.
- During 2016, OEM sponsored NIMS instructors conducted two (2) "Intermediate Incident Command System for Expanding Incidents" classes and two "Advanced Incident Command System for Command and General Staff" classes. 71 students from various public safety and public health disciplines successfully completed this multi day trainings.
- The OEM facilitated six (6) disaster exercises to test both County and municipal emergency plans. We also participated in three (3) additional exercises.
- Aurora, City of
 - The City is moving from the use of the "Code Red" citizen notification platform to the Everbridge Platform which provides an enhanced system for communicating with the public and also City employees.
 - The City has incorporated the WEB EOC emergency management platform in place of the E-Team Platform. This change allows for sharing for information with other county and state agencies.
- Batavia, City of
 - The city conducted a table top exercise with Kane County OEM to help ensure readiness.
- Burlington, Village of
 - A recent train derailment on Plank Road has identified a need for us to improve our ability to coordinate real-time information concerning the disruption to traffic caused by the disruption. During this incident, there were no hazardous chemicals involved which would have triggered the professional actions of the Fire Department for the safety of residents.
 - An additional activity under this item is our continued efforts to eliminate unnecessary traffic utilizing Old Plank Road. Signage has been changed and/or eliminated to provide drivers the advice that this route no longer connects for east bound traffic. Continuous improvement has been noted.
- Elgin, City of
 - The Elgin Fire Department hosted an All Hazards Operations Section Chief class in April 2016.
 - CERT classes continue to be held monthly on numerous topics regarding natural disasters and preparedness.
 - Toured District U46's EOC and discussed ways to coordinate efforts in a large-scale emergency or disaster.
 - Continued interdepartmental training with the fire and police departments for large-scale emergencies and disaster response.
 - Continued to upgrade the Cities EOC.

- Lily Lake, Village of
 - The Village has applied for and will continue to apply for grants towards early warning systems.
- South Elgin, Village of
 - The Village worked with the South Elgin Fire Protection District to improve the NIMS (National Incident Management Systems) command structure. We successfully conducted training exercises using our Fourth of July Parade and the 20th annual RiverFest.
- St. Charles, City of
 - The City conducted a functional scale exercise in October to continue to evaluate and improve emergency response plans and programs.

10. Flood Control Projects

Implement structural flood control projects, including farm drainage improvements and projects to improve bridges and culverts, where they prove to be the most appropriate approach to reduce flood damage. Such projects need to meet the criteria listed in Section 8.8.

Status:

- Kane County Division of Environmental & Water Resources
 - The Division completed 12 cost-share projects to reduce flooding on unincorporated residential properties. Water Resources staff gave a presentation on these projects to the Kane County Development Committee in October 2016. The projects included:
 - Hazelwood Ravine Stabilization (Village of Lily Lake)
 - Wideview—Shady Oaks Court (Campton Township/Village of Campton Hills)
 - Algonquin Shores (Dundee Township)
 - Johnston-Lindenwood (Aurora Township)
 - Big Timber Acres Outfall (Rutland Township)
 - Longview Estates (St. Charles Township)
 - Campton Forest Preserve (Campton Township)
 - Briergate Storm Sewer—Prestbury (Sugar Grove Township)
 - Lake Charlotte Drain Tile (St. Charles Township)
 - Catatoga Subdivision (Elgin Township)
 - Kaneville Estates Drain Tile Improvement (Kaneville Township)
 - Hidden Springs Culvert Replacement—Windings of Ferson Creek (Campton Township)
- Kane County Division of Transportation
 - Replaced 15 cross culverts and did many ditching enhancements and cleaning along the County right of way.
- Aurora, City of
 - Farnswood Condominium Flood Relief Improvements (Cost \$644,608) is complete. Benefits of the project include the

- installation of an overland flood route for an area that has experienced frequent flooding.
- Sheridan Storm and Sanitary Improvements (Cost \$765,000) is complete. Benefits of this project include the installation of a new storm sewer which will provide sewer separation to a neighborhood that has a history of basement back-ups.
- Galena Downer Sewer Separation (Cost \$1,537,000) is 40% complete. Installation of new storm and sanitary sewers to replace a small combined sewer which will eliminate basement back-ups and satisfy a requirement in the City's EPA long term control plan.
- Waubonsie Lake Dredging (Cost \$835,000) is 5% complete. Excavation of silt deposits will lead to a healthier lake environment and reduce the potential for sediment migration during flood events.
- Batavia, City of
 - Completed Phase I engineering study of areas subject to inundation due to poor drainage conveyance.
- Burlington, Village of
 - After several years addressing a North Main Street drainage/retention pond, agreements were finalized and signed. Successful bids were obtained and awarded to mitigate the situation with the intent to eliminate the flooding of homes along Main Street south of French Road and north of Main Street that existed for over 30 years during and after heavy rains. A final change to the project allowed for the sowing of grass seed and laying excelsior to protect against erosion by spring weather. The project was concluded in November at a cost of \$92,971.38.
- Carpentersville, Village of
 - The Village completed the construction of Carpenter Creek north of Maple Avenue for approximately 1,500 feet as well as constructing five linear rain gardens and stabilizing the banks on Carpenter Creek within Carpenter Park. The village is in the process of submitting a LOMR to FEMA to potentially remove adjacent properties from the floodplain.
 - The Public Works Department installed 4 storm sewer dry wells throughout the village in order to relieve nuisance roadway flooding and provide a means of drainage during light to moderate rainfall events.
 - Village specific project: Lake Marian Watershed - Alt. C1 Williams Road Culvert Replacement Severe erosion has occurred in the open stream, resulting in down cutting and nearly vertical banks. Debris clogging of the existing undersized culvert resulted in roadway overtopping, roadway closure, and partial roadway washout in August 2007 storm event. With the existing culvert, Algonquin Road currently overtops at between the 25 and 50 year interval.

- Status: The Phase I and II Engineering has been completed and this project is scheduled to be constructed in FY 2017.
 - Village specific project: Four Winds Way Creek - Riversview Drive Box Culvert Replacement and Reconstruction.
 - Status: This project was substantially completed in the fall of 2016.
 - Village specific project: Hopi Lane Storm Sewer Improvement Project, Includes Phase I & II Engineering.
 - Status: Phase I design is complete, Phase II design is anticipated to begin spring 2017.
- Elgin, City of
 - The City continues to purchase land that is in known flood plain areas.
- South Elgin, Village of
 - The Village installed a new regional Stormwater swale and storm sewer pipes as part of the Water Street road project in the downtown village center conservation district. This project will serve as the design standard for all future redevelopment in the downtown area.
- St. Charles, City of
 - The FEMA 100 year flood plain was revised for the City, the City also held an open house to inform residents of their options and talk to homeowners who may be impacted by the change in the flood map.
 - As part of the 2016 MFT program the City replaced 15 storm sewer structures.
 - As part of the 2016 MFT program the City replaced 158 feet of storm sewer.
 - The City reconstructed the portion of State Street Creek between Route 31 and the Fox River to address ongoing erosion problems. This work included bank stabilization and rip rap erosion control.
 - The City completed storm structure and grading improvements south of Dean Street between North 11th and 12th Streets.
 - The City continued the process of developing a concept plan for 7th Avenue Creek and 7th Avenue Creek Tributary. The goal of the concept plan is to address flooding along the creek and tributary, minimize stream erosion, improve stream ecology, and identify options that will improve aesthetics and revitalize the neighborhood along the project corridor.

11. Hazard Mitigation Materials

Prepare background information, articles, and other explanations of hazard mitigation topics.

Status:

- Kane County Division of Environmental & Water Resources

- The Division continued updating its Water Resources web pages, which contain floodplain information and other drainage assistance resources for the community:
www.countyofkane.org/FDER/Pages/environmentalResources/waterResources.aspx.
- South Elgin, Village of
 - The Village used a water table display on loan from IAFSM to demonstrate specific flood concepts and safety concern at our flood safety week open house and the Annual National Night Out Against Crime August 2, 2016.
- St. Charles, City of
 - Several pieces of Public Outreach were sent to homeowners this past year.

12. Outreach Projects

Prepare and disseminate outreach projects based on the materials provided under action item 11.

Status:

- Kane County Division of Environmental & Water Resources
 - The Kane County Division of Environmental & Water Resources distributed stormwater management educational materials, which contain some information on minimizing flood risk, at several public outreach events during 2016:
 - Sustainability Expo at Elgin Community College (4/20/16)
 - Green Fair on the Fox in Batavia (8/13/16)
 - Sierra Club Valley of the Fox presentation in Batavia (9/12/16)
 - It's Our River Day in Algonquin (9/17/16)
 - The Kane County Health Department distributed "Preparing for Emergencies" handbooks at the Healthy Places Coalition meeting in October 2016, encouraging committee members to pass along the information to their customers/residents.
 - A "Preparing for Winter Storms" article was published in Kane County Connects in November 2016 to educate approximately 10,000 community members on how to take precautions for upcoming winter weather conditions:
<http://kanecountyconnects.com/2016/11/how-to-prepare-for-danger-of-winter-storms/>.
- Kane County Office of Emergency Management
 - The OEM participated in many community events such as the Springhill Mall Touch-A-Truck, National Night Out, and the Batavia Fire Department Community Open House. These events allow our members the opportunity to speak with our residents one-on-one, explaining what personal preparedness is and giving them

information on how the community can achieve an acceptable level of preparedness.

- Elgin, City of
 - Performed under Agreement with Baxter and Woodman for the National Pollutant Discharge Elimination System (NPDES) Phase II permit.
 - Attended the following events where members of the public were in attendance, a booth was set up that had a display targeting school age children with an “Enviroscape” model showing how pollution gets into our source water, as well as information regarding rain barrels, pollutant reduction and other stormwater management information for adults:
 - Harvest Market (three dates)
 - Public Works Open House
 - City’s Earth Day Celebration
 - ECC Sustainability Fair
- Lily Lake, Village of
 - The Village maintains a Village website, Facebook page, and Lilylake Nextdoor site.
- South Elgin, Village of
 - The Village distributes flood insurance materials through newsletter articles as well as all local Realtors and direct mailings to flood hazard area residents. Information was provided to local libraries regarding flooding and flood safety.

13. Plan Adoption

Adopt this *Natural Hazards Mitigation Plan* by passing the resolution as listed in Section 10.4 or 10.5 of the plan, as appropriate.

Status:

- Kane County and many municipalities have adopted the current plan.

14. Mitigation Coordinating Committee

The Natural Hazards Mitigation Planning Committee would be converted to a permanent advisory body in the County’s resolution to adopt this *Plan*. It would:

- Act as a sounding board for hazard mitigation issues.
- Disseminate hazard mitigation ideas and activities to all participants.
- Monitor implementation of this Action Plan and.
- Report on progress and recommended changes to the County Board and each municipality.

Status:

- The Standing Committee met twice during 2016 to review mitigation activities.

15. Community Rating System

Host a workshop to review floodplain management activities currently undertaken and those recommended by this *Plan*. Compare these activities to those credited under the Community Rating System.

Status:

- Kane County Division of Environmental & Water Resources
 - Kane County's Water Resources staff are working closely with IDNR officials to complete the 2014 community assistance visit (CAV). Procedures for violations, working with the State's Attorney's office, and a process to achieve compliance with the County and Federal Floodplain guidelines are in process. The County will not be able to apply for the CRS program until the CAV is closed.
 - Additionally, Water Resources staff attended a CRS workshop hosted by the Illinois Association for Floodplain and Stormwater Management (IAFSM) in November 2016.
- Carpentersville, Village of
 - The Village maintained its Class 6 designation, which provides properties located within the floodplain a 20% reduction in flood insurance premiums.
- Elgin, City of
 - Currently part of the CRS, and working towards improving the rating.
- South Elgin, Village of
 - The Village completed the 3-year field verification in March 2016 for the CRS Class 5, due in part to the preservation of open space and community outreach activities. The Village received 3061 credit points (enough for a class 4) but did not meet the prerequisites.
- St. Charles, City of
 - The City once again submitted their annual CRS recertification, nothing indicates that it will not be renewed. The City holds a class 5 rating.

