



August 31, 2011

The City of Yuba City is an active member of the FEMA/NFIP Community Rating System. The Community Rating System is a program which identifies communities which are taking an active approach towards flood awareness and flood insurance. The benefits of the City's participation include a direct discount on flood insurance for all citizens within the community. This discount will take effect immediately when FEMA completes the mapping review of Yuba City, which will identify areas of the community as Special Flood Hazard Areas. The percentage discount each resident will receive is a direct reflection to the level of participation by the City. The discounts can range from 0% to 45% depending on the City's classification. Communities are classified between Class 10, a non-participating community which receives 0% discount, and Class 1, a community which receives a 45% discount. The City of Yuba City will be increased to a Class 6 in October, meaning citizens who purchase flood insurance through the National Flood Insurance Program will receive a 20% discount when FEMA releases the anticipated Flood Insurance Rate Map update.

As a requirement of the Community Rating System, the City is responsible for providing an annual update of the Multi-Hazard Mitigation Plan, which was originally published in 2007. Following is a review of the background and progress on the City of Yuba City's Action Items described in the Multi-Hazard Mitigation Plan.

EMERGENCY SERVICES MITIGATION ACTION

ACTION #1: EMERGENCY COMMUNICATION IMPROVEMENTS

- Issue/Background: Currently, there are some areas countywide that do not have radio signals. During an emergency, additional resources are needed to communicate within these areas. This usually involves additional people to act as relays across these areas. Additional communication structures need to be established.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Police and Fire Department
- Priority (High, Medium, Low): High
- Cost Estimate: \$1-2 million
- Benefits (avoided Losses): Life safety, Property loss
- Potential funding: Federal and state funding/grants, Local Funds – CIP budgets,
- Schedule: 2008 to 2012

2011 Progress Report: Over the past few years, the Yuba City Fire and Police Departments have been working towards the mandated January 1, 2013 transition from wide-band to narrow-band communications frequencies by purchasing narrow-band compliant portable radios, mobile radios, pagers, and station notification systems. As part of this effort, the Yuba City Fire Department provide fifteen (15) narrow-band compliant interoperable portable radios to designated key emergency personnel/positions within the City's Public Works Department, Utilities Department, and General Services Department's Fleet Maintenance Division for use during major emergencies. These radios were purchased through Homeland Security Grant funds. Yuba City Public Works/General Services are coordinating the narrow-banding transition efforts for non-public safety communications equipment with the purchase of narrow-band compliant equipment.

The Yuba City Fire and Police Departments have also been planning for the upgrade of communications equipment located in the Yuba City Police Department Dispatch Center to meet narrow-band compliance. This facility dispatches both City Police operations within the City and Fire response within the City and contracted unincorporated County service area. Both Departments are

using Homeland Security Grant funds to finance the necessary upgrades to the Dispatch Center. Purchases of narrow-band compliant radios and other related communications equipment and the installation of same are scheduled to begin in September 2011 and carry on into early 2012.

Reprogramming of all City radios and other communications equipment to comply with the January 1, 2013 narrow-banding transition date will occur throughout 2012, and is anticipated to be funded through Homeland Security Grant funds allocated to the City.

FLOOD MITIGATION ACTIONS

ACTION #2: VARIOUS STREETS: PROJECT IMPROVEMENTS TO DECREASE LOCALIZED FLOODING

- Issue/Background: Localized flooding throughout the city occurs during storm events due to lack of infrastructure and drainage problems. As the City has grown and annexed rural areas, drainage problems have arisen that have led to localized flooding of streets and low lying property. The existing infrastructure in critical areas either does not exist or is not sized to provide adequate drainage when surrounding areas were developed.
- Other Alternatives: Continue to allow localized flooding during storm events
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): Medium
- Cost Estimate: \$10 million
- Benefits (avoided Losses): Reduce damage to homeowners and property loss. Reduce the possibility of safety hazards associated with flooded streets, public property, and systems. Prevent oils and foreign material from entering waterways and groundwater. Labor and associated costs of cleaning up after flooding would be reduced or eliminated
- Potential funding: Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation Program (PDM), Flood Mitigation Assistance (FMA); State Funds & Grants; Local Funds; Private Funds
- Schedule: 1-5 years depending on funding; localized flooding projects are budgeted for annually.
- **2011 Progress Report:** The City of Yuba City Department of Public Works has completed drainage improvements along Willow Way between Pine Avenue and Percy Avenue. The completed project eliminated localized flooding conditions in the area through the installation of appropriate drainage facilities. Public Works is currently in the process of designing a similar project along Rockholt Way between Colusa Avenue and Teegarden Avenue. This project is expected to be completed in 2012.

ACTION #3: LOW LIFT PUMP ACCESS ROAD IMPROVEMENTS

- Issue/Background: Due to high water events within the levees of the Feather River the access road to the City of Yuba City's low lift intake structure becomes impassable by vehicle. Water rises and washes out the roadway at existing culverts multiple times a year creating access and maintenance problems. The low lift pump must be checked two times a day for proper operation. A majority of the City of Yuba City's water supply is taken in at this site. Multiple times a year maintenance crews must repair the travel way to provide access for water operators and maintenance workers to check and serve the intake pump daily. Project scope would include providing concrete box culverts under the roadway to prevent washouts.
- Other Alternatives: Relocate Pump
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): Medium
- Cost Estimate: \$1 million
- Benefits (avoided Losses): By maintaining access to Low Lift Pump, which provides water for the City of Yuba City residents, the possibility of pump problems and water shortages if failure occurred are greatly reduced. Reduce costs associated with maintaining and repairing the roadway.

- Funding: FEMA
- Schedule: Summer 2012
- **2011 Progress Report:** The City of Yuba City Department of Public Works is currently in the process of obtaining appropriate environmental documents and project funds. The Low Lift Access Road is scheduled to be constructed during the summer of 2012. The project improvements shall be constructed at the relocated access road.

ACTION #4: RELOCATION OF WASTEWATER EFFLUENT DISCHARGE PONDS

- Issue/Background: During the 1986, 1996, and 2006 storm events, major storm damage occurred to the six wastewater effluent ponds. Damage that occurred included erosion of access roads, damage to concrete spillway structures, deposition of soil into the ponds, and damage to existing riprap. FEMA and OES have funded reconstruction of the ponds after each of the three storm events. This project entails moving the ponds out of the floodway onto the landside of the floodway either on the east or west side of the Feather River.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): High
- Cost Estimate: \$20 million
- Benefits (avoided Losses): Future mitigation and reconstruction costs of rebuilding the ponds after a major storm event.
- Potential funding: HMGP, PDM, FMA; State Funds & Grants; Local Funds
- Schedule: 1-5 years as funding is available
- **2011 Progress Report:** The City of Yuba City Department of Public Works will seek grant funding for this project. To date no grant funding solicitation packages have been available to fund this specific type of project.

ACTION #5: EAST AND WEST FEATHER RIVER BANK STABILIZATION

- Issue/Background: The Feather River floodway between Yuba City and Marysville is bounded by east and west levee structures. However, within the floodway, the main Feather River has eroded its banks in two areas accessed by Yuba City. One area is on the west side of the wastewater effluent ponds and another area is on the east side of the water supply intake access road. This project entails installing rip rap and stabilizing the river bank.
- Other Alternatives: Relocating water supply access road and wastewater effluent ponds. No Action.
- Responsible Office: Levee District 1
- Priority (High, Medium, Low): High
- Cost Estimate: \$1-2 million
- Benefits (avoided Losses): Property damage
- Potential funding: HMGP, PDM, FMA; State Funds & Grants; Local Funds
- Schedule: Completed
- **2011 Progress Report:** The United States Army Corps of Engineers has completed the East and West Feather River Bank Stabilization Project.

ACTION #6: GILSIZER SLOUGH WEIR AT BOGUE ROAD

- Issue/Background: Gilsizer Slough is the main channel which runs through Yuba City transferring the drainage runoff generated by the majority of the City to the Sutter By-Pass. In the flood of 1955, the flood water backed into the City through the Gilsizer Slough flooding several properties. In order to prevent such occurrences from happening in the future, the slough will need to be “blocked” in case of a levee break in the Yuba City Basin. Blocking the slough cannot be achieved after a break occurs because of the time it will take to construct a structure to block the slough. Constructing a weir that

blocks the natural channel of the Gilsizer Slough will provide a structure in place to be utilized in preventing the flood water from backing into the city caused by a levee break.

- Other Alternatives: No Action
- Responsible Office: City of Yuba City Public Works Department
- Priority (High, Medium, Low): High
- Cost Estimate: \$3 million
- Benefits (avoided Losses): The backing up of flood water into Yuba City would cause billions of dollars in damage to properties and economic impacts to the entire Planning Area.
- Potential funding: HMGP, PDM, FMA; State Funds & Grants; Local Funds
- Schedule: 1-5 years as funding is available
- **2011 Progress Report:** The Gilsizer Slough Weir at Bogue Road project will be evaluated further by the Sutter Butte Flood Control Agency in order to determine project need.

ACTION #7: COMPREHENSIVE FLOOD MANAGEMENT PLAN

- Issue/Background: Yuba City has completed a risk assessment for the city within the Multi-Hazard Mitigation Plan and needs to develop a comprehensive flood management plan that includes an assessment of existing data, future data needed, and projects to provide 200-year level of flood protection for the City.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): High
- Cost Estimate: \$1 million
- Benefits (avoided Losses): Life Safety, Property damage
- Potential funding: HMGP, PDM, FMA; State Funds & Grants; Local Funds
- Schedule: Ongoing
- **2011 Progress Report:** The Sutter Butte Flood Control Agency (SBFCA) is a joint powers agency formed in 2007 by the Counties of Butte and Sutter, the Cities of Biggs, Gridley, Live Oak and Yuba City, and Levee Districts 1 and 9. The SBFCA is performing tasks which meet objectives identified in this Action Item. Specifically, the SBFCA is undertaking the Feather River West Levee Project which will increase public safety by providing 200-year flood protection from Yuba City north to Thermalito Afterbay, and 100-year flood protection south of Yuba City

ACTION #8: IMPLEMENTATION OF ADDITIONAL CRS ACTIVITIES

- Issue/Background: The CRS program reduces the flood insurance premiums for city residents. The City has qualified for a Class 8 that provides a 5% discount for preferred insurance customers and 10% for mandatory flood insurance customers. The City can work towards a Level 1 that would reduce mandatory flood insurance by 45% and reduce preferred insurance rates to 10%. Funding and implementing additional activities will allow the City to increase their rating.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): High
- Cost Estimate: \$500 thousand to \$1.5 million
- Benefits (avoided Losses): Life Safety, Property damage
- Potential funding: HMGP, PDM, FMA; State Funds & Grants; Local Funds
- Schedule: 1-3 years
- **2011 Progress Report:** The City of Yuba City Department of Public Works is constantly working on improving our CRS classification to increase the discount rate given towards the purchase of flood insurance. In March 2011, the Department of Public Works submitted a modification request for floodplain management activities which are being implemented to achieve a higher classification. In

May, the City received notification which states that in October 2011, the City's Classification will improve from a Class 7 to Class 6, meaning residents with properties located within the Special Flood Hazard Area will receive a 20% discount for Standard Flood Insurance policies.

In early 2012, an updated CRS Coordinator's Manual will be released and have significant impacts to the City's CRS credits. Through the transition to the new Manual, efforts will be made to maintain or improve the City's Classification.

ACTION #9: FLOODPLAIN MANAGEMENT PLANNING OUTREACH PROJECT

- Issue/Background: Outreach to the community is essential during development of a comprehensive flood management plan. The outreach will be conducted and input used during development and implementation of the plan.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): High
- Cost Estimate: \$250 thousand to \$1 million
- Benefits (avoided Losses): Life Safety, Property damage
- Potential funding: Local Funds – CIP budgets, federal and state grants
- Schedule: Ongoing
- **2011 Progress Report:** The City of Yuba City Department of Public Works is currently on schedule with this action item. Publications mailed to residents include an annual flood outreach letter and flood insurance flyer. In addition, outreach materials are updated and posted on the City's website at www.yubacity.net/flood.

WILDFIRE MITIGATION ACTIONS

ACTION #10: FIRE FLOW IMPROVEMENTS FOR GROUNDWATER REGIONS 1, 2, AND 3 INCLUDING AREAS SERVED BY SURFACE WATER.

- Issue/Background: These do not meet city standards.
- Other Alternatives: No Action
- Responsible Office: City of Yuba City Department of Public Works
- Priority (High, Medium, Low): Medium
- Cost Estimate: \$25 million
- Benefits (avoided Losses): Life safety, Property loss
- Potential funding: Federal and state funding, Local Funds – CIP budgets, Grant funds
- Schedule: Completed
- **2011 Progress Report:** The City of Yuba City Department of Public Works completed this project in May of 2011. This project included the conversion/consolidation of Groundwater Regions 1, 2, and 3 with the City's surface water system through the construction of 3 miles of 30-inch diameter water transmission mains, various interconnecting pipelines, distribution water mains, a 3.6 million gallon water storage tank and a 10.5 million gallons per day pumping station located in the southwest area of Yuba City.