

1.4 – POPULATION

In 2010 the population of RC reached over 2.19 million, a population percentage increase of 41.7% from April 2000 to July 2010, which is larger than the population of 16 states including the District of Columbia. The current student population of Riverside County is over 423,986 which is larger than the student population of 15 states. 23% (95,316) of Riverside County students are limited in their ability to speak English. A significant portion of the population is children of migrants, both documented and undocumented. Approximately 94.9% of those students are Hispanic or Latino.

The Riverside County Office of Education has approximately 1,667 employees that work in one of the six service divisions and the Office of the Superintendent. The six divisions are: the Division of Administration and Business Services, the Division of Educational Leadership Services, the Division of Personnel Services, the Division of Student Programs and Services, the Division of Educational Services, and the Division of Children and Family Services. Because the county is so extensive, both of our regional offices (located in Murrieta and Indio) are staffed with employees from a number of these divisions.

Educational options for the Riverside County Office of Education schools include: Community day schools; special day classes; parenting mothers; correctional education; and, juvenile court schools. Students are also referred to the Riverside County Office of Education's Alternative Education (Alt Ed), Special Education (Spec Ed), and Head Start schools by local districts, juvenile courts, probation, social services and/or by parent requests as a result of severe behavioral problems, learning disabilities, teen pregnancy or motherhood, expulsion, juvenile delinquency, residency in group homes, and/or homelessness.

Special Education students are unable to function in a regular school setting due to severe physical disabilities, deafness, hard of hearing, blindness, emotional challenges, and/or otherwise medically fragile. This student population requires specialized support including medical equipment due to the nature of their disabilities.

The Riverside County Office of Education's Head Start Program serves children 0-5 year olds and parenting mothers. With limitations in the children being able to walk, talk and care for themselves, it is essential that staff be prepared for evacuating, caring for and possibly transporting large numbers of infants and toddlers.

RCOE directly serves over 6,900 students; over 2,700 of those students are classified as special needs students. RCOE has a total of 106 RCOE sites: 30 RCOE Alternative Education (Alt Ed); 52 Special Education (Sp Ed); 21 Head Start (HS) / Migrant Head Start (MHS) sites. Three MHS sites are located in Imperial County with one site approximately 1 mile from the Mexico border. In addition to providing direct services to RCOE students, RCOE provides support and professional development opportunities to 4 community colleges and 16 charter schools and 25 districts comprised of 4 Elementary Districts; 1 High School District;

Critical Facilities Map Source: *GeoSpective Technologies (TM) Copyright© 2011*

4.3 – ESTIMATING POTENTIAL LOSS

4.4 – TABLE/REPLACEMENT VALUE

Riverside County Office of Education’s replacement value and occupancy/capacity of critical facilities and other jurisdictional assets are listed in Table 2. The assets are divided into 4 types of sites: (1) Administrative sites; (2) Learning centers sites; (3) Head Start sites; and (4) Off-campus sites. Off-campus sites are unique school sites that are designated in commercial zones.

Specific Critical Facilities and Other Community Assets Identified by Riverside County Office of Education’s Planning Team.

Name of Asset	Replacement Value (\$)	Occupancy/ Capacity #	Hazard Specific Info.
RCOE Administration Office	\$58,471,587		Re-enforce Masonry, Multiple stories, Minimal secured facilities
RCOE Learning Centers (# sites)	\$35,798,044		Some campuses do not have secured facilities. Some sites in proximity of airfields.
RCOE Head Start (21 sites)	\$4,055,287		Minimal secure perimeter, Mobile Facilities. Some sites in proximity of airfields, rail and highways.
RCOE Off-campus sites	\$120,913,519		Some campuses do not have secured facilities. Site location in Commercial Zones. Close proximity to rail & highway system

4.5 – IDENTIFICATION OF RISKS AND VULNERABILITIES

1. Earthquakes Severity – 3, Probability – 3, Ranking – 1

Since California was sparsely populated in the 1800s, the detection of pre-instrumental earthquakes is relatively difficult. However, two very large earthquakes, the Fort Tejon in 1857 (M7.9) and the Owens Valley in 1872 (M7.6) are evidence of the tremendously damaging potential of earthquakes in Southern California. According to the U.S. Geological Service, each year Southern California has about 10,000 earthquakes. Riverside has several known active and potentially active major earthquake fault zones. The County experiences hundreds of minor quakes and tremblers each month from the myriad of faults in the area. Of the 106 RCOE sites, 28 are located in an Extremely High Earthquake Risk Zone, 69 are in a Very High Risk Zone and only 4 are in a Low Risk Zone; no RCOE sites are located in High or Moderate Zones.

The Riverside County Office of Education is located in a Seismic Hazard Zone. The nearest active earthquake faults are the Elsinore, San Jacinto, and San Andreas fault zones, all have high rates of displacement and are rapidly accumulating strain energy to be released in earthquakes. Jurisdiction has experienced several noticeable ground movement incidents, such as from the 2005 Chino Hills earthquake, and the 2010 Baja California earthquake. While there was structural damage to Imperial County schools, there were no reports of any structural damage to our jurisdiction sites.

Two of California's most active faults, the San Andreas and the San Jacinto faults, traverse Riverside County. Both of these faults, as well as the Elsinore fault zone, have the potential to generate future earthquakes within Riverside County. In addition to these faults, other earthquake source zones exist outside the County. Earthquakes can cause loss of life and property, and devastating economic damages. Because impacts resulting from earthquakes typically extend over a wide area, they can overwhelm local jurisdictions and hamper the delivery of emergency services. The seismic hazards that have the greatest potential to severely affect Riverside County are seismic ground shaking, liquefaction, and surface fault rupture. Secondary hazards such as seismically induced settlement, seismically induced slope instability, and seiches may also occur as the result of a significant seismic event.

Earthquakes in Southern California occur as a result of movement between the Pacific and North American plates. Faults of the San Andreas system are used to mark the boundary between the plates, but the deformation, faulting, and associated earthquakes occur in a broadly distributed zone that stretches from offshore to Nevada. Thus, the San Andreas is one of a system of plate-bounding faults. Most of the movement between the plates occurs along the San Andreas fault, which bisects Riverside County. The rest of the motion is distributed among

northwest-trending, strike-slip faults of the San Andreas system (principally the

6.3 – FISCAL MITIGATION CAPABILITIES

This section does not directly apply to RCOE. – There are no regulatory capabilities within the scope of the Riverside County Office of Education.

6.4 – MITIGATION OUTREACH AND PARTNERSHIPS

The Riverside County Office of Education has an existing water responsible program and annual fire safety programs in schools.

The Riverside County Office of Education is an active member of the community however; the outreach programs are left to the host cities within the service areas.

California Earthquake Mitigation Legislation

For decades, the legislature has passed laws to strengthen the built environment and protect the school environment. The California Government Code and Education Code Sections, and the (Cal EMA) California Emergency Management Agency have mandated and contributed several resources to plan and prepare for earthquakes.

The Riverside County Office of Education has adopted and incorporated these authorities into the *Emergency*

Preparedness Guidelines for School Sites:

- Develop and implement a comprehensive earthquake and disaster plan.
- Conduct school drills to test emergency plans, procedures, and systems.
- Conduct “hazard hunts” as a mitigation effort to identify equipment and furnishings that need to be secured and anchored before the emergency or disaster strikes.
- Encourage students and school staff to prepare an emergency plan for their families.
- Inform parents of school site emergency plans and procedures.
- Update and maintain current information on “Emergency Notification Cards.”
- Maintain an emergency supplies inventory at each school site and facility.
- Clearing brush and dry grass up to 100 yards away from any building.
- Inspect our sites and surrounding areas when heavy rain has fallen to ensure that a floor or mud slide does not occur.
- Have a plan in place to evacuate students and staff in the case of a hazardous material spill, dam failure or earthquake. In some cases, sheltering-in-place, may be the best option. Have a plan in place to ensure that staff is trained on how to safe-guard our children.

6.5 – OTHER MITIGATION EFFORTS

RCOE has implemented mitigation efforts in the past. Examples that were not covered elsewhere in this section include the following:

RCOE has provided a 3-day emergency drinking water supply at all sites for staff, students and visitors (ongoing).

RCOE's Administration entire building has a back-up auxiliary power source to support CONOPS. Researching auxiliary power at Operational Support Services.

The County's designated cooling centers and secondary sites if needed during a heat emergency are listed on the RCOE website and provided to parents.

RCOE is active in prevention and mitigation through its own internal Emergency Response Plan (Emergency Action Plan and Fire Prevention Plans). However, the primary efforts are led by the host cities within the County service areas as defined above.

RCOE has both a County-wide and school site specific Emergency Operation Plan. They include the following Annexes:

- Direction & Control Plan
- Communication Plan
- Warning Plan
- ICP Activation Plan
- EOC Activation Plan
- Light Fire Suppression Plan
- Light Search and Rescue Plan
- First Aid Plan
- Evacuation Plan
- Lockdown Plan
- Shelter in Place Plan
- Pandemic Plan
- All Hazards Plan
- Terrorist Response Plan
- Coordination with EMS
- Coordination with Law Enforcement
- Parent Reunification Plan
- Special Needs Plan
- Emergency Public Information Plan
- Transportation Plan
- Resources Plan
- Recovery Plan

- Hazardous Material Plan (In Progress)

- Public Works Plan (In Progress)
- RCOE has specific Emergency Advisory Bulletins for sites to respond to:
 - High Heat Conditions
 - Unhealthy Air Quality Conditions
 - Heavy Rains or Flood Conditions
 - Use of the NOAA radios
 - Influenza Guidelines
- RCOE is currently developing a Continuity of Operation Plan (COOP) for all Business Divisions.

SECTION 7.0 – MITIGATION STRATEGIES

7.1 – MITIGATION STRATEGIES

Our Special District coordinated with multiple cities and agencies throughout Riverside County in the creation/update of our LHMP Annex. The cooperation and discussions both in regional meetings, community outreach and internal meetings allowed for both “big picture” and “local jurisdiction” views of mitigation needs and possibilities.

The Part Two, Agency Inventory Worksheet process enabled our City/Special district to recognize hazards and their severity and also assisted in determining what mitigation actions are appropriate to lessen or prevent the hazard on a long term basis.

7.2 – GOALS AND OBJECTIVES

- Goal 1: Provide Protection for Staff and Student’s Lives from All Hazards
 - Objective 1.1: Provide timely notification and direction to the school based population of imminent and potential hazards.
 - Objective 1.2: Protect school based population’s health and safety by preparing for, responding to, and recovering from the effects of natural or technological disasters.
 - Objective 1.3: Improve all efforts to allow for better evacuation routes for school based population and better access for emergency responders.
- Goal 2: Improve RCOE’s staff and students Awareness about Hazards and Associated Vulnerabilities That Threaten Our Communities

Objective: 2.1: Increase staff and student's awareness about the nature and extent of hazards they are exposed to, where they occur, what is vulnerable, and

recommended responses to identified hazards (i.e. both preparedness and response).

2.1.1: Create/continue an outreach program, provide educational resources, and develop and provide training.

Objective 2.2: Continue to develop the emergency drill practice throughout the school based population.

2.2.1: Safety Committee to review all After-Action Report and assign corrective actions to limit or decrease losses.

➤ Goal 3: Improve the RCOE's Capability to Mitigate Hazards and Reduce Exposure to Hazard Related Losses

Objective 3.1: Reduce damage to property from an earthquake event.

3.1.1: Adopt/maintain building codes for schools to meet required earthquake standards utilizing the CEQA Initial Checklist. See Exhibit D to this ANNEX.

Objective 3.2: Reduce flood and storm related losses.

3.2.1: Provide for better collection of data related to severe weather events.

Objective 3.3: Minimize the impact to vulnerable populations within the community that may be affected by severe weather-related events, such as long duration heat waves and winter storms.

3.3.1: Assist in the distribution of County notification of cooling centers location, during heat waves.

➤ Goal 4: Provide Protection for Critical Facilities, Utilities, and Services from Hazard Impacts

➤ Goal 5: Maintain Coordination of Disaster Planning

Objective 5.1: Coordinate with changing DHS/FEMA needs.

5.1.1: National Incident Management System (NIMS)

5.1.2: Disaster Mitigation Act (DMA) planning

5.1.3: Emergency Operations plans

Objective 5.2: Coordinate with community plans.

5.2.1: General plans

5.2.2: Jurisdictional "All Hazards" Plan

5.2.3: Intergovernmental agency disaster planning.

Objective 5.3: Maximize the use of shared resources between jurisdictions and

special districts for mitigation/communication.

5.3.1: Develop Mutual/Automatic Aid agreements with adjacent jurisdictions and agencies.

5.3.2: Identify all RCOE resources and maintain a database for mutual aid request.

Objective 5.4: Standardize systems among agencies to provide for better interoperability.

5.4.1: Standardize communication technology and language.

- Goal 6: Maintain/Provide for FEMA Eligibility and Work to Position RCOE and Community Partners for Grant Funding

7.3 – MITIGATION UPDATES FROM 2005

In the 2005 plan, RCOE submitted a Proposed Mitigation Action and Strategy. Please review the Mitigation Strategy, and state the status.

- Was the strategy completed, deleted, deferred or in progress? **Deferred**
- Who is responsible? **Children Family Services, RCOE**
- What actions have been taken? **Minimal Action**
- What is the current status of the project? **Reinstated under Operational Support Services for action.**

7.4 – ON-GOING MITIGATION STRATEGY PROGRAMS

The jurisdiction planning team will prioritize specific mitigation tasks for the next 5 years. This list will include an implementation process, funding strategy, responsible agency, and approximate time frame.

The planning team for the RCOE identified and prioritized the following mitigation actions based on the risk assessment. Background information and information on how each action will be implemented and administered, such as ideas for implementation, responsible office, partners, potential funding, estimated cost, and schedule are included.

1. Inventory and Correct all Non-Structural hazards at RCOE Sites

Issue/Background: It is unknown of corrective actions has been taken to properly secure all non-structural hazards at all RCOE sites.

Other Alternatives: No action

Responsible Office: Operational Support Services

Priority (High, Medium, Low): High

Cost Estimate: Unknown

Potential Funding: FEMA Pre-Disaster Mitigation grants

Benefits (Avoided Losses): Elimination of non-structural hazards in classrooms and workspaces can reduce replacement cost of \$20M in personal property (Electronic and office equipment)

Schedule: 18 months after funding secured

The jurisdiction has a few on-going mitigation programs that help create a more disaster-resistant region. The following list highlights those programs identified as existing programs in the mitigation strategy spreadsheet. Others are on-going programs that are currently under funded. It is the jurisdictions priority to find additional funding to sustain these on-going programs over time.

- Non-structural mitigation for building contents.
- Non-structural hazards inventory of sites.
- Vulnerability assessments of RCOE facilities and infrastructure

(See Part 2 Page 15, “Local Jurisdiction Proposed Mitigation Action”)

SECTION 8.0 – INCORPORATION INTO EXISTING PLANNING MECHANISMS

The Riverside County Office of Education has several planning mechanisms which incorporate the

- RCOE Emergency Operation Plan
- RCOE School Site Emergency Operation Plan
- RCOE Continuity of Operation Plan

The RCOE has an “All-Hazard” Annex in its Emergency Operation Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. In addition, RCOE enforces the requirements of the California Educational Codes which outlines the requirement for schools. RCOE has used these pre-existing programs as a basis for identifying gaps that may lead to disaster vulnerabilities in order to work on ways to address these risks through mitigation.

The *Disaster Mitigation Act of 2000* requires the updating of hazard mitigation plan’s every five years at the local level. To ensure that this occurs, in the fourth year following adoption of the Plan, the Riverside County Office of Education’s Mitigation Team will undertake the following activities:

- Work with County OES to thoroughly analyze and update the RCOE’s risk to natural and man-made hazards (as was done to prepare the original Plan).
- Provide a new annual review (as noted above).
- Provide a detailed review and revision of the Mitigation Strategy, including each goal, objective, and potential action.
- Prepare a new Action Plan with prioritized actions, responsible parties, and resources.
- Prepare a new draft *Riverside County Office of Education’s Hazard Mitigation Plan* and submit to the Riverside County Board of Education for adoption.
- Submit an updated Plan to the County OES for inclusion in the County-wide LHMP.

See Table Page 13 “Regulatory Mitigation Table”

SECTION 9.0 – PLAN MAINTENANCE PROCESS

The requirement 201.6(c)(4)(i) states “The plan maintenance process shall include a section describing the method and schedule of monitoring, evaluating, and updating the plan in a 5 years cycle.

a. Plan Development.

Under the Operational Support Services, the Emergency Preparedness Coordinator or designee assigned is responsible for the overall completion of the RCOE LHMP.

b. Distribution of LHMP Documents.

Copies of the LHMP and supporting documents will be distributed to those tasked in this document. Additional copies will be set aside for school site administration office, special districts, city EOCs and upon request from individuals within the community.

c. Review.

The RCOE LHMP and its supporting documents shall be monitor and evaluated annually by the Emergency Preparedness Coordinator or designee assigned.

d. Updates

The LHMP will be updated based upon:

- The goals and objectives address current and expected conditions.
- The nature, magnitude, and/or type of risks have changed.
- The current resources are appropriate for implementing the plan.
- There are implementation problems, such as technical, political, legal, or coordination issues with other agencies.
- The outcomes have occurred as expected (a demonstration of progress).
- The agencies and other partners participated as originally proposed.
- The deficiencies identified during actual emergency situations and/or during an exercise.
- When changes in the threat hazards, resources or capabilities increase or decrease.

The LHMP and its supporting must be revised or updated by a formal change annually. The responsibility for revising or updating the LLHMP is assigned to the Emergency Preparedness Coordinator

The RCOE, Operational Support Services' Emergency Preparedness Coordinator or designee is responsible for distributing all revised and/or updated planning documents

to all departments, agencies, and individuals tasked in those documents. Upon discovery or if any changes have occurred during the evaluation of the LHMP, RCOE will update the LHMP Revision Page, and notify the County of Riverside OES to update our Annex.

SECTION 10.0 – CONTINUED PUBLIC INVOLVEMENT

The Riverside County Office of Education’s LHMP will be reviewed on an annual basis at a regular Operation Support Services meeting. The plan will be made available on the Riverside County Office of Education’s website either by direct links to the County LHMP site or specifically to Riverside County Office of Education’s Annex and all public notices relating to the LHMP will be posted on the Riverside County Office of Education’s Emergency Preparedness Page.

Website: http://www.rcoe.k12.ca.us/emergency/local_mitigation_plan.html

Exhibit B - Public Meeting Announcements and Planning Meeting



Source: Riverside County Office of Education – Emergency Preparedness Website

6

Welcome!
 Meeting: LHMPP - Initial Planning
 Meeting Coordinator: M. Daniels
 Place: RCOE - Operational Support Services
 Date: 16 August 2011

Please print

NAME	POSITION	DISTRICT/AGENCY	PHONE NUMBER
Michael Daniels	Emergency Prep	RCOE	
Valerie Pranks	Emergency Prep	RCOE	924-4242
Roger Torres	MAD Regional Mgr	RCOE	
Lindsay Gutierrez	Public Affairs Manager	RCOE	

Welcome!
 Meeting: LHMPP - Mitigation Strategy
 Meeting Coordinator: M. Daniels
 Place: RCOE OSS
 Date: 15 Sept 2011

Please print

NAME	POSITION	DISTRICT/AGENCY	PHONE NUMBER
Valerie Pranks	Emergency Prep	RCOE	924-4242
Roger Torres	MAD Regional Mgr	RCOE	
John M. Williams	MAD Supervisor	RCOE	
Michael Daniels	Emergency Prep	RCOE	

Source: RCOE LHMPP Rosters

Exhibit C – RCOE ALL HAZARD AND VULNERABILITY ASSESSMENT TOOL

HAZARD AND VULNERABILITY ASSESSMENT TOOL NATURALLY OCCURRING EVENTS								
EVENT	PROBABILITY <small>Likelihood this will occur</small>	SEVERITY - (MAGNITUDE - MITIGATION)						RISK <small>Relative threat*</small>
		HUMAN IMPACT <small>Possibility of death or injury</small>	PROPERTY IMPACT <small>Physical losses and damages</small>	BUSINESS IMPACT <small>Interruption of services</small>	PREPARED-NESS <small>Preplanning</small>	INTERNAL RESPONSE <small>Time effectiveness, resources</small>	EXTERNAL RESPONSE <small>Community/Mutual Aid staff and supplies</small>	
SCORE	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Earthquake	3	2	2	3	2	2	2	72%
High Winds	2	1	1	1	3	3	2	41%
Severe Thunderstorm	1	1	1	1	2	2	3	19%
Tornado	1	2	3	3	3	2	1	26%
Hurricane	0	0	0	0	3	3	3	0%
Flood, External	1	1	1	3	3	3	2	24%
Temperature Extremes	3	1	1	1	1	1	2	39%
Drought	2	0	0	1	1	2	3	20%
Landslide	1	1	1	1	3	2	3	20%
Dam inundation	1	1	1	1	2	2	2	17%
Urban Fire	1	1	1	1	2	2	2	17%
Wild Fire	2	1	1	2	2	2	2	37%
Epidemic	2	3	0	3	2	2	3	48%
Tsunami	0	0	0	0	0	0	0	0%
AVERAGE SCORE	1.25	0.94	0.81	1.31	1.81	1.75	1.88	20%

*Threat increases with percentage

RISK = PROBABILITY * SEVERITY
 0.20 0.42 0.47

Name of Site: Riverside County Office of Education

HAZARD AND VULNERABILITY ASSESSMENT TOOL HUMAN RELATED EVENTS								
EVENT	PROBABILITY <small>Likelihood this will occur</small>	SEVERITY - (MAGNITUDE - MITIGATION)						RISK <small>Relative threat*</small>
		HUMAN IMPACT <small>Possibility of death or injury</small>	PROPERTY IMPACT <small>Physical losses and damages</small>	BUSINESS IMPACT <small>Interruption of services</small>	PREPARED-NESS <small>Preplanning</small>	INTERNAL RESPONSE <small>Time effectiveness, resources</small>	EXTERNAL RESPONSE <small>Community/Mutual Aid staff and supplies</small>	
SCORE	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = Low 2 = Moderate 3 = High	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 = Nil 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Incident (Trauma)	1	2	0	2	2	3	1	19%
Mass Casualty Incident (medical/infectious)	1	2	0	2	2	3	1	19%
Suicide/Death on Campus	1	1	0	1	3	3	1	17%
Bomb Threat	1	2	2	3	3	3	1	26%
Explosion	1	2	0	3	3	3	1	22%
Active Shooter on Campus	1	0	1	3	3	3	1	20%
Intruder on Campus	2	0	0	3	2	3	1	33%
Hostage Situation	1	0	0	3	3	3	1	19%
Kidnapping/Abduction	1	0	0	1	3	3	1	15%
Civil Disturbance/Riot	1	0	1	2	3	3	1	19%
Transportation Incident (railways, highways, air)	1	0	1	2	3	3	1	19%
Transportation Incident (involving school bus)	1	0	1	2	3	3	1	19%
AVERAGE	1.06	0.75	0.50	2.25	2.75	3.00	1.00	16%

*Threat increases with percentage

RISK = PROBABILITY * SEVERITY
 0.38 0.43 0.68

**HAZARD AND VULNERABILITY ASSESSMENT TOOL
EVENTS INVOLVING HAZARDOUS MATERIALS**

EVENT	PROBABILITY Likelihood this will occur	SEVERITY = (MAGNITUDE - MITIGATION)						RISK Relative threat*
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
		Possibility of death or injury	Physical assets and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community Mutual Aid staff and supplies	
SCORE	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Most serious incident (From Atomic events at your Site with >= 5 victims)	1	1	1	1	3	3	1	19%
Most serious Hazard Incident (From Atomic events at your Site with < 5 victims)	1	1	1	1	3	3	1	19%
CRISIS/EMERGENCY (External/Internal)	1	1	1	1	3	3	1	19%
Internal Spill (Small/Medium)	1	1	1	1	3	3	1	19%
Internal Spill (Large)	1	1	1	1	3	3	1	19%
WASTEWATER TREATMENT	1	2	1	2	3	3	1	22%
AVERAGE	1.00	1.17	1.00	1.17	3.00	3.00	1.00	9%

*Threat increases with percentage.

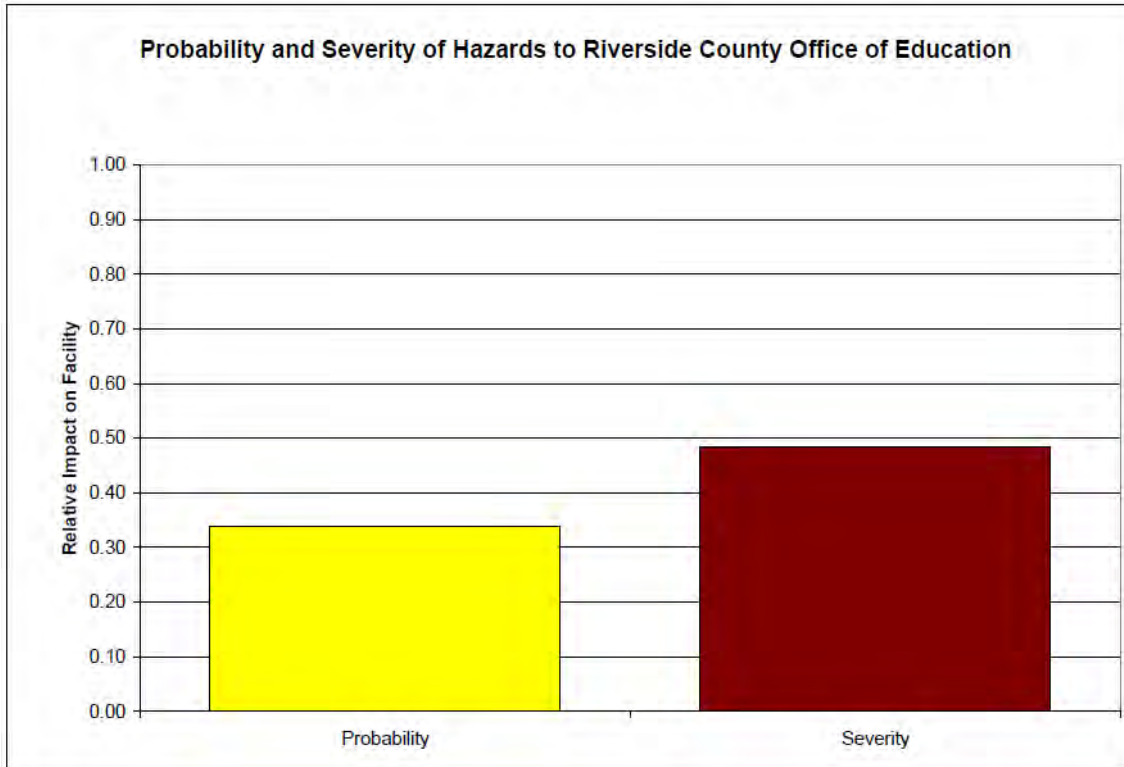
RISK = PROBABILITY * SEVERITY		
0.09	0.22	0.38

**HAZARD AND VULNERABILITY ASSESSMENT TOOL
HUMAN RELATED EVENTS**

EVENT	PROBABILITY Likelihood this will occur	SEVERITY = (MAGNITUDE - MITIGATION)						RISK Relative threat*
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
		Possibility of death or injury	Physical assets and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community Mutual Aid staff and supplies	
SCORE	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = Low 2 = Moderate 3 = High	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 = AA 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Mass Casualty Incident (youth)	1	2	0	2	2	3	1	19%
Mass Casualty Incident (medical/infectious)	1	2	0	2	2	3	1	19%
Suicide/Death on Campus	1	1	0	1	3	3	1	17%
Bomb Threat	1	2	2	3	3	3	1	26%
Explosion	1	2	0	3	3	3	1	22%
Active Shooter on Campus	1	0	1	3	3	3	1	20%
Intruder on Campus	2	0	0	3	2	3	1	33%
Hostage Situation	1	0	0	3	3	3	1	19%
Kidnapping/Abduction	1	0	0	1	3	3	1	15%
Civil Disturbance/Riot	1	0	1	2	3	3	1	19%
Transportation Incident (railways, highways, air)	1	0	1	2	3	3	1	19%
Transportation Incident (involving school bus)	1	0	1	2	3	3	1	19%
AVERAGE	1.08	0.75	0.50	2.25	2.75	3.00	1.00	30%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY		
0.30	0.43	0.68



Issues to consider for probability include:

1. Known Risk
2. Historical Data
3. Manufacture/vendor statistics

Issues to consider for response include:

1. Time on-scene response
2. Scope of response capability
3. Historical Evaluation or response success

Issues to consider for human impact include:

1. Potential for staff death or injury
2. Potential for student death or injury

Issues to consider for property impact:

1. Cost to replace
2. Cost to set up temporary replacement
3. Cost for repair
4. Time to recover

Issues to consider for business impact:

1. Business interruption
2. Employees unable to report to work
3. Students unable to reach facility
4. Interruption of critical supplies
5. Interruption education
6. Financial impact/burden

Issues to consider for preparedness:

1. Status of current plans
2. Frequency of drills
3. Training status
4. Insurance
5. Availability of critical supplies/services

Issues to consider for internal resources:

1. Types of supplies on hand
2. Volume of supplies on hand
3. Availability of back-up systems
4. Internal resources ability withstand disaster

Issues to consider for external resources:

1. Types of agreements with agencies
2. Coordination with local and state agencies
3. Coordination with School Districts
4. Community resources

Exhibit D – RCOE ALL HAZARD AND VULNERABILITY ASSESSMENT TOOL
INITIAL STUDY

NOTE: The following is a sample form and may be tailored to satisfy project circumstances. It may be used to meet the requirements for an initial study when the criteria set forth in the State and Local CEQA Guidelines have been met. Substantial evidence of potential impacts that are not listed on this form must also be considered. The sample questions in this form are intended to encourage thoughtful assessment of impacts, and do not necessarily represent thresholds of significance.

Lead Agency Name and Address:

Contact Person and Phone Number:

Project Location:

Project Sponsor's Name and Address:

General Plan Designation:

Zoning:

Description of Project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheet(s) if necessary.)

Surrounding Land Uses and Setting: (Briefly describe the project's surroundings.)

Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Biological Resources	<input type="checkbox"/> Cultural Resources	<input type="checkbox"/> Geology / Soils
<input type="checkbox"/> Greenhouse Gas Emissions	<input type="checkbox"/> Hazards & Hazardous Materials	<input type="checkbox"/> Hydrology / Water Quality
<input type="checkbox"/> Land Use / Planning	<input type="checkbox"/> Mineral Resources	<input type="checkbox"/> Noise
<input type="checkbox"/> Population / Housing	<input type="checkbox"/> Public Services	<input type="checkbox"/> Recreation
<input type="checkbox"/> Transportation / Traffic	<input type="checkbox"/> Utilities / Service Systems	<input type="checkbox"/> Mandatory Findings of Significance

APPENDIX B – AGENCY INVENTORY WORKSHEETS

SEE ATTACHMENTS – PART II

APPENDIX B

RIVERSIDE COUNTY MULTI-JURISDICTIONAL LOCAL HAZARD MITIGATION AGENCY INVENTORY WORKSHEETS

Riverside County Office of Education
October 2011

TABLE OF CONTENTS

Introduction: These documents are meant to be discussed, used and reviewed by a multi-disciplinary team. The Participation by a wide range of stakeholders who play a role in identifying and implementing mitigation actions is required.

SPECIAL CONCERNS:

- 1. Has the completed Letter of Commitment been returned to OES? OES must forward this completed Letter of Commitment to Cal EMA.*

1. Local Jurisdiction Contact Information	page 3
2. Hazard Identification Questionnaire	page 4-6
3. Specific Hazards Summary	page 7
4. Jurisdiction Vulnerability Worksheet	page 8-9
5. Jurisdiction Mitigation Strategies and Goals	page 10-14
6. Local Jurisdiction Proposed Mitigation Action and Strategy Proposal	page 14-16
7. Local Jurisdiction Development Trends	page 17-18

1. LOCAL JURISDICTION CONTACT INFORMATION

The information on this page identifies:

- Jurisdiction and the contact person
- Jurisdiction's service area size and population
- EOP Plan and a Safety Element of their General Plan

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Agency/Jurisdiction:

Type Agency/Jurisdiction:

Contact Person: Title:

First Name: Last Name:

Agency Address: Street:
 City:
 State:
 Zip:

Contact Phone FAX

E-mail

Population Served Square Miles Served

Does your organization have a general plan?
 Does your organization have a safety component to the general plan?
 What year was your plan last updated?

Does your organization have a disaster/emergency operations plan?
 What year was your plan last updated?
 Do you have a recovery annex or section in your plan?
 Do you have a terrorism/WMD annex or section in your plan?

2. Hazard Identification Questionnaire

The purpose of the questionnaire is to help identify or review the hazards within your service area. The list was developed from the first round of meetings with the various working groups in the 2005 plan creation, and from the hazards listed in the County's General Plan. Each hazard is discussed in detail in Part I of the 2005 LHMP. The information will be used as a reference for each jurisdiction to evaluate its capabilities, determine its needs, and to assist in developing goals and strategies. The information identifies:

- a) What hazards can be identified within or adjacent to the service area of the jurisdiction.
- b) Which of those hazards have had reoccurring events
- c) What specific hazards and risks are considered by the jurisdiction to be a threat specifically to the jurisdiction. (These locations should be identified by name and location for inclusion in the Specific Hazard Summary Table).
 - a. Specific types of facilities owned and operated by the jurisdiction.
 - b. Locations damaged from prior disasters or hazard causing events.
- d) Information about the jurisdiction's EOC

With your Multi-Disciplinary Planning Team:

- a. Instructions for **Updating** Jurisdictions, with your planning team: Review your old Questionnaire for accuracy and relevance, mark changes.
- b. Instructions for **New** Jurisdictions and Special Districts, with your planning team, meet and go over the questionnaire. Fill in YES, NO or NA on the Questionnaire.

HAZARD IDENTIFICATION QUESTIONNAIRE

DOES YOUR ORGANIZATION HAVE:	
AIRPORT IN JURISDICTION	YES
AIRPORT NEXT TO JURISDICTION	YES
DAIRY INDUSTRY	YES
POULTRY INDUSTRY	YES
CROPS/ORCHARDS	YES
DAMS IN JURISDICTION	YES
DAMS NEXT TO JURISDICTION	YES
LAKE/RESERVOIR IN JURISDICTION	YES
LAKE/RESERVOIR NEAR JURISDICTION	YES
JURISDICTION IN FLOOD PLAIN	YES
CONTROLLED FLOOD CONTROL CHANNEL	NO
UNCONTROLLED FLOOD CONTROL CHANNEL	NO
EARTHQUAKE FAULTS IN JURISDICTION	YES
EARTHQUAKE FAULTS NEXT TO JURISDICTION	YES
MOBILE HOME PARKS	YES
NON-REINFORCED FREEWAY BRIDGES	NO
NON-REINFORCED BRIDGES	NO
BRIDGES IN FLOOD PLAIN	NO
BRIDGES OVER OR ACROSS RIVER/STREAM	NO
ROADWAY CROSSING RIVER/STREAM	NO
NON REINFORCED BUILDINGS	NO
FREEWAY/MAJOR HIGHWAY IN JURISDICTION	YES
FREEWAY/MAJOR HIGHWAY NEXT TO JURISDICTION	YES
FOREST AREA IN JURISDICTION	NO
FOREST AREA NEXT TO JURISDICTION	YES
WITHIN THE 50 MILES SAN ONOFRE EVACUATION ZONE	YES
MAJOR GAS/OIL PIPELINES IN JURISDICTION	YES
MAJOR GAS/OIL PIPELINES NEXT TO JURISDICTION	YES
RAILROAD TRACKS IN JURISDICTION	YES
RAILROAD TRACKS NEXT TO JURISDICTION	YES
HAZARDOUS WASTE FACILITIES IN JURISDICTION	NO
HAZARDOUS WASTE FACILITIES NEXT TO JURISDICTION	NO
HAZARDOUS STORAGE FACILITIES IN JURISDICTION	NO
HAZARDOUS STORAGE FACILITIES NEXT TO JURISDICTION	NO
DOES YOUR ORGANIZATION OWN OR OPERATE A FACILITY	
IN A FLOOD PLAIN	NO
NEAR FLOOD PLAIN	YES
NEAR RAILROAD TRACKS	YES
NEAR A DAM	NO
UPSTREAM FROM A DAM	NO
DOWNSTREAM FROM A DAM	YES
DOWNSTREAM OF A LAKE	NO
DOWNSTREAM FROM A RESERVOIR	NO
NEAR A CONTROLLED FLOOD CONTROL CHANNEL	
NEAR UNCONTROLLED FLOOD CONTROL CHANNEL	NO
ON AN EARTHQUAKE FAULT	NO
NEAR AN EARTHQUAKE FAULT	YES
WITHIN THE 50 MILE SAN ONOFRE EVACUATION ZONE	YES

IN A FOREST AREA	NO
NEAR A FOREST AREA	NO
NEAR A MAJOR HIGHWAY	YES
A HAZARDOUS WASTE FACILITY	NO
NEAR A HAZARDOUS WASTE FACILITY	NO
A HAZARDOUS STORAGE FACILITY	NO
NEAR A HAZARDOUS STORAGE FACILITY	NO
NON REINFORCED BUILDINGS	NO
A MAJOR GAS/OIL PIPELINE	NO
NEAR A MAJOR GAS/OIL PIPELINE	NO
DOES YOUR ORGANIZATION HAVE ANY LOCATIONS THAT:	
HAVE BEEN DAMAGED BY EARTHQUAKE AND NOT REPAIRED	NO
HAVE BEEN DAMAGED BY FLOOD	NO
HAVE BEEN DAMAGED BY FLOOD MORE THAN ONCE	NO
HAVE BEEN DAMAGED BY FOREST FIRE	NO
HAVE BEEN DAMAGED BY FOREST FIRE MORE THAN ONCE	NO
HAVE BEEN IMPACTED BY A TRANSPORTATION ACCIDENT	NO
HAVE BEEN IMPACTED BY A PIPELINE EVENT	NO
EMERGENCY OPERATIONS INFORMATION	
DOES YOUR ORGANIZATION HAVE AN EOC	YES
IS YOUR EOC LOCATED IN A FLOOD PLAIN	NO
NEAR FLOOD PLAIN	NO
NEAR RAILROAD TRACKS	YES
NEAR A DAM	NO
UPSTREAM FROM A DAM	NO
DOWNSTREAM FROM A DAM	NO
DOWNSTREAM OF A LAKE	NO
DOWNSTREAM FROM A RESERVOIR	NO
NEAR A CONTROLLED FLOOD CONTROL CHANNEL	NO
NEAR UNCONTROLLED FLOOD CONTROL CHANNEL	NO
ON AN EARTHQUAKE FAULT	NO
NEAR AN EARTHQUAKE FAULT	YES
WITHIN THE 50 MILE SAN ONOFRE EVACUATION ZONE	NO
IN A FOREST AREA	NO
NEAR A FOREST AREA	NO
NEAR A MAJOR HIGHWAY	YES
A HAZARDOUS WASTE FACILITY	NO
NEAR A HAZARDOUS WASTE FACILITY	NO
A HAZARDOUS STORAGE FACILITY	NO
NEAR A HAZARDOUS STORAGE FACILITY	NO
NON REINFORCED BUILDINGS	NO
A MAJOR GAS/OIL PIPELINE	NO
NEAR A MAJOR GAS/OIL PIPELINE	NO
OTHER FACILITY INFORMATION	
ARE THERE LOCATIONS WITHIN YOUR JURISDICTION THAT:	
COULD BE CONSIDERED A TERRORIST TARGET	YES
COULD BE CONSIDERED A BIO-HAZARD RISK	NO

With your planning team, list the “Yes” answers and discuss. Use the information as a group to summarize your jurisdiction’s hazards and vulnerabilities.

3. SPECIFIC HAZARDS SUMMARY

This table helps to identify the information (name, owner, location, etc.) about the specific hazards identified in the Hazard Questionnaire.

In the Summary Table, list the basic information of the hazards identified by the jurisdiction in the Hazard Identification Questionnaire as a potential threat. These specific hazards were used in the development of response plans, maps, and other analysis data.

SPECIFIC HAZARDS SUMMARY

Jurisdiction	Hazard Type	Hazard Name	In Jurisdiction?	Adjacent to Jurisdiction?
RivCo Ofc of Education	Earthquakes	1. San Andreas Fault 2. San Jacinto Fault 3. Lake Elsinore Fault	YES	YES
	Airports	1. Ontario Intl 2. Palm Springs Intrnl 3. March ARB 4. Riverside Municipal 5. Banning 6. Blythe 7. Corona 8. Jacqueline Cochran 9. Agua Caliente 10. Desert Center 11. Bermuda Dunes 12. Perris Valley 13. Lake Elsinore	YES	YES
	Airports	1. Chino Airport 2. Salton Sea	NO	YES
	Highways (Hazmat)	1. Interstate 15, 215, 2. Highway 60	YES	YES
	Railways (Hazmat)	1. BNSF lines 2. UP lines	YES	YES
	High Winds	1. Santa Ana	YES	YES
	Pandemics/Outbreak	1. Influenza Outbreak	YES	YES
	Heavy Rains	1. Winter Storms	YES	YES

4. JURISDICTION VULNERABILITY WORKSHEET (Related to #5 in the 2012 Annex : Jurisdiction Template)

This table is a listing of the primary hazards identified by the 2005 LHMP working groups. Each jurisdiction was asked to evaluate the potential for an event to occur in their jurisdiction by hazard. They were also asked to evaluate the potential impact of that event by hazard on their jurisdiction. The impact potential was determined based on:

1. Economic loss and recovery
2. Physical loss to structures (residential, commercial, and critical facilities)
3. The loss or damage to the jurisdictions infrastructure
4. Their ability to continue with normal daily governmental activities
5. Their ability to quickly recover from the event and return to normal daily activities
6. The loss of life and potential injuries from the event.

The jurisdictions were asked to rate the potential and severity using a scale of between 0 and 4 (4 being the most severe). The jurisdictions were also asked to rank the listed hazards as they relate to their jurisdiction from 1 to 19 (1 being the highest overall threat to their jurisdiction).

With the assistance of the RCIP Plan and County Departments, Riverside County OES conducted an extensive evaluation of the severity and probability potential for the county as a whole. The hazards were also ranked. Those numbers and rankings were provided to the jurisdictions as a comparison guide.

A separate table was created to address the hazards relating to agriculture and was assessed by the agriculture working group. This table can be found in the Agriculture Appendix of Part I of the 2005 Plan.

- a. Instructions for **Updating** Jurisdictions and Special Districts: Please review the table, determine if your ranking from the 2005 LHMP remains the same, and note that Pandemic has been added to the list. Please discuss and document new or unchanged severity and rankings.
- b. Instructions for **New** Jurisdictions and Special Districts: Please evaluate the potential for an event to occur in your jurisdiction by hazard. Then, evaluate the potential impact of that event by hazard on your jurisdiction according to #1-6 from the potential impact list above.

NOTE: Under Medical, Pandemic was added. This was a result of the H1N1 and other incidents.

HAZARD	COUNTY		LOCAL JURISDICTION		
	SEVERITY 0 - 4	PROBABILITY 0 - 4	SEVERITY 0 - 4	PROBABILITY 0 - 4	RANKING 1 - 19
EARTHQUAKE	4	3	3	3	1
WILDLAND FIRE	3	4	3	3	2
FLOOD	3	3	2	3	3
OTHER NATURAL HAZARDS					
DROUGHT	3	3	2	3	12
LANDSLIDES	2	3	1	1	15
INSECT INFESTATION	3	4	2	1	17
EXTREME SUMMER/WINTER WEATHER	2	4	2	4	4
SEVERE WIND EVENT	3	3	3	3	5
AGRICULTURAL					
DISEASE/CONTAMINATION	3	4	3	3	18
TERRORISM	4	2	3	2	16
OTHER MAN-MADE					
PIPELINE	2	3	1	1	20
AQUEDUCT	2	3	1	1	19
TRANSPORTATION	2	4	2	2	13
POWER OUTAGE	3	4	2	3	6
HAZMAT ACCIDENTS	3	3	3	3	7
NUCLEAR ACCIDENT	4	2	4	2	8
TERRORISM	4	2	3	2	9
CIVIL UNREST	2	2	2	2	10
JAIL/PRISON EVENT	1	2	1	2	14
MEDICAL					
PANDEMIC			4	2	11

5. JURISDICTION MITIGATION STRATEGIES AND GOALS

This comprehensive table is a listing of the various mitigation strategies, goals, and objectives developed by the 2005 LHMP working groups. The jurisdictions were also given the opportunity to list additional strategies, goals, and objectives specific to either their jurisdiction or their workgroup (i.e. the hospitals, agriculture, etc.).

LOCAL JURISDICTION MITIGATION STRATEGIES AND GOALS

With your Planning Team

- a. Instructions for **Updating** Jurisdictions and Special Districts: please review the table; determine if your ranking from the 2005 LHMP remains the same. H (High), M (Medium), L (Low), or N/A (Not Applicable)
- b. Instructions for **New** Jurisdictions and Special Districts: please follow below:

Please evaluate the priority level for each listed mitigation goal identified below as it relates to your jurisdiction or facility. If you have any additional mitigation goals or recommendations, please list them at the end of this document.

Place an H (High), M (Medium), L (Low), or N/A (Not Applicable) for your priority level for each mitigation goal in the box next to the activity.

EARTHQUAKE	
H	Aggressive public education campaign in light of predictions
	Generate new literature for dissemination to:
M	◇ Government employees
H	◇ Businesses
N/A	◇ Hotel/motel literature
L	◇ Local radio stations for education
N/A	◇ Public education via utilities
N/A	◇ Identify/create television documentary content
N/A	Improve the Emergency Alert System (EAS)
N/A	◇ Consider integration with radio notification systems
N/A	◇ Upgrade alerting and warning systems for hearing impaired
N/A	◇ Training and maintenance
L	Procure earthquake-warning devices for critical facilities
M	Reinforce emergency response facilities
N/A	Provide training to hospital staffs
H	Require earthquake gas shutoffs on remodels/new construction
N/A	Evaluate re-enforcing reservoir concrete bases
M	Evaluate EOCs for seismic stability
N/A	Install earthquake cutoffs at reservoirs
L	Install earthquake-warning devices at critical facilities
N/A	Develop a dam inundation plan for new Diamond Valley Reservoir
H	Earthquake retrofitting
N/A	◇ Bridges/dams/pipelines
H	◇ Government buildings/schools
N/A	◇ Mobile home parks
N/A	Develop educational materials on structural reinforcement and home inspections (ALREADY DEVELOPED)

N/A	◇ Re-examine historical flooding data for potential street re-design
M	Training for city/county PIOs about flood issues
H	Warning systems - ensure accurate information provided
L	◇ Publicize flood plain information (website?)
N/A	◇ Install warning/water level signage
M	◇ Enhanced public information
N/A	◇ Road closure compliance
M	◇ Shelter locations
H	◇ Pre-event communications
N/A	Look at County requirements for neighborhood access
H	◇ Secondary means of ingress/egress
N/A	Vegetation restoration programs
M	Ensure critical facilities are hardened/backed up
N/A	Hardening water towers
N/A	Terrorism Surveillance - cameras at reservoirs/dams
N/A	Riverbed maintenance
N/A	Evaluate existing lift stations for adequacy
N/A	Acquisition of property for on-site retention
N/A	Evaluate regulations on roof drainage mechanism
H	Erosion-resistant plants
N/A	Traffic light protection
N/A	Upkeep of diversionary devices
N/A	Install more turn-off valves on pipelines
H	Backup generation facilities
N/A	Identify swift water rescue capabilities across County
WILDFIRES	
L	Aggressive weed abatement program
L	◇ Networking of agencies for weed abatement
N/A	Develop strategic plan for forest management
H	Public education on wildfire defense
H	Encourage citizen surveillance and reporting
N/A	Identify hydrants with equipment ownership information
L	Enhanced firefighting equipment
N/A	Fire spotter program/red flag program
	◇ Expand to other utilities
H	Research on insect/pest mitigation technologies
N/A	Volunteer home inspection program
H	Public education program
H	◇ Weather reporting/alerting
H	◇ Building protection
H	◇ Respiration
H	Pre-identify shelters/recovery centers/other resources
N/A	Roofing materials/defensive spacing regulations
N/A	Community task forces for planning and education
M	Fuel/dead tree removal
N/A	Strategic pre-placement of firefighting equipment
N/A	Establish FEMA coordination processes based on ICS

APPENDIX C – PLAN REVIEW TOOL/CROSSWALK

SEE ATTACHMENTS – PART III