

Annex to 2010 Association of Bay Area  
Governments  
Local Hazard Mitigation Plan  
*Taming Natural Disasters*

TOWN OF WINDSOR

## Table of Contents

Table of Contents .....	2
Introduction .....	3
The Regional Planning Process .....	3
The Local Planning Process .....	3
<i>Public Meetings</i> .....	4
Hazards Assessment .....	5
Past Occurrences Of Disasters (natural and human-induced) .....	6
Risk Assessment .....	6
<i>Urban Land Exposure</i> .....	7
<i>Infrastructure Exposure</i> .....	8
<i>Exposure of Town Owned Buildings, Plus Critical Healthcare Facilities and Schools</i>	9
<i>Repetitive Loss Properties -</i> .....	10
<i>Other risks</i> .....	10
National Flood Insurance Program.....	10
Mitigation Goals and Objectives .....	11
Mitigation Activities and Priorities .....	11
<i>Evaluation of Progress from 2007 Plan</i> .....	11
<i>Future Mitigation Actions and Priorities</i> .....	12
<i>On-Going Mitigation Strategy Programs</i> .....	14
Incorporation into Existing Planning Mechanisms .....	14
Plan Update Process .....	15
Mitigation Plan Point of Contact .....	16
Exhibit A - Jurisdiction Boundary Map .....	17
Exhibit B - Public Meeting Announcements .....	18
Exhibit C - Town of Windsor 2010 Mitigation Strategy Spreadsheet .....	23

## Introduction

The Town of Windsor is a small-sized Town in Sonoma County, California. The Town has a population of about 26,000, based on State of California estimates. Census<sup>1</sup> information on the Town is available at this link. Last year, the Town's budget was \$57.5 million. The Town employs about 161 full time and part-time people as well as a number of contract employees. While the Town contracts with Sonoma County for local police services, two separate and independent fire districts supply fire services.

## The Regional Planning Process

The Town of Windsor submitted a letter of commitment to ABAG to participate in the process in May 2009. City representatives participated in the ABAG-led sub-regional workshop in Sonoma County on April 30, 2009 to review the list of mitigation strategies from the 2005 plan and recommend regional priorities for each strategy. At that meeting some of the strategies were modified or deleted and participants made recommendations on strategies that should be added to the list. In August 2010, the Town reviewed the Draft regional LHMP and provided written comments on the content of the plan to ABAG.

For more information on these meetings and for rosters of attendees, please see Appendix A and H in the ABAG Multi-Jurisdictional Local Hazard Mitigation Plan 2010 (MJ-LHMP). In addition, the Town of Windsor has provided written and oral comments on the multi-jurisdictional plan and provided information on facilities that are defined as "critical" to ABAG.

## The Local Planning Process

The Town has a Staff Review Committee (SRC) that meets twice a month, which is an integral communication team for development, construction, and other Town related projects. It was decided that this would be the most appropriate body to oversee the process of the LHMP. The SRC Committee members consist of representatives from the Town's various departments and divisions. Planning representatives address issues related to environmental resources, land use and structures, engineering representatives address public utilities, infrastructure, drainage, public right-of-way, streets and roads, and building representatives address construction and building code requirements. In addition, representatives from the Windsor Police Department, Windsor Fire Protection District, and Rincon Valley Fire Department bring expertise in public safety and emergency response. At varying times, representatives from the school district, finance department, and consultants are invited to the meeting for comments and input from their areas of expertise. One of the purposes of the committee is to address infrastructure, services, and potential funding sources for both existing and future development.

The Committee reviewed the mitigation strategy spreadsheet finalized in the sub-regional workshops and designated priorities for mitigation. The list was submitted to ABAG to post on its website on May 30, 2009. At that time, the Committee also submitted a list of facilities it deemed critical to response and recovery operations of the Town. The Local Hazard Mitigation

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<sup>1</sup> For complete Census information on this Town, see <http://www.bavareacensus.ca.gov/>.

Strategy Spreadsheet can be found in **Exhibit C** to the Town of Windsor 2010 Annex. The comments received by the committee were incorporated into the spreadsheet.

### *Public Meetings*

Opportunity for public comments on the DRAFT mitigation strategies was provided at a public meeting at the Town of Windsor Planning Commission meeting on September 22, 2009 in the Windsor Town Council Chambers and advertised on the Town of Windsor website. The draft mitigation strategies were also published on the Town of Windsor website for public viewing. The Town hoped to understand the public concerns about risks the Town faces and their suggestions for mitigation activities in the Town. No public comments were received from either the meeting or the internet posting. Copies of the notices and website posting are included as **Exhibit B** to the Town of Windsor 2010 Annex. In future updates of this plan, the Town will consider alternate methods of reaching the public that will be more effective in achieving better public participation.

The Town of Windsor Town Council will adopt the plan in a public meeting via an official Resolution upon approval by FEMA. The mitigation strategies will become an implementation appendix of the Public Health and Safety Element of the Town of Windsor General Plan.

### *Process for Updating Plan Sections*

The Plan was updated to reflect any code revisions, amendments, or other actions related to the plan that the Town undertook between the 2005 Annex and the 2010 Annex. It was determined that a major update was not necessary because most of the information was still relatively accurate. The Planning Process section was updated to reflect the process undertaken for the update of this plan and the Hazards section now incorporates more detailed seismic information adapted from the Town of Windsor General Plan.

Code revisions and amendments are actions taken by the Town Council. The Town Council policy is very clear when it comes to public involvement. All Town Council agendas are posted in at least three off-site locations as well as the Town's website. Agendas and staff reports are made available for public review. Written correspondence is forwarded to all Council members and verbal comments can be provided at Town Council meetings.

### *Review and Incorporation of Existing Information*

In preparation of this Annex, the Town reviewed the studies and information used in the development of the umbrella plan. In addition to those documents, the Safety Elements of the Windsor and Sonoma County General Plans were incorporated into the Hazard Assessment of this Annex.

## Hazards Assessment

The ABAG multi-jurisdictional Local Hazard Mitigation Plan, to which this is an Annex, lists nine hazards that impact the Bay Area, five related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). Tsunamis, landslides, and wildfires have the least impact to the community. The earthquake and weather related hazards have a greater impact on the community due to the Town's proximity to the Warm Spring Dam, fault zones and effects from weather impacts such as drought and flooding. There are several creeks that cross through the Town. Tsunamis do not impact the Town of Windsor because the Town is more than 30 miles from the Pacific Ocean with an intervening mountain range. The topography is relatively flat with hillsides to the east of Town, which means minimal landslide concerns. The Town has oak and riparian woodlands, primarily situated towards the hillsides or along riparian corridors, which minimizes the risk of wildfires. The Town is generally more urban than rural in nature.

There are three active faults that have the potential to affect the Town of Windsor: The Healdsburg-Rodgers Creek, the San Andreas, and the Maacama. (Adapted from Windsor General Plan, Health and Safety Element)

**Healdsburg-Rodgers Creek:** This system combines the Rodgers Creek and Healdsburg faults and runs northwest-southeast approximately 2.5 miles east of Windsor. The fault system is capable of a maximum credible earthquake of magnitude 7.0. Two destructive earthquakes occurred on this fault in 1969, causing widespread damage in San Rosa. The USGS has estimated the probabilities of a major earthquake of magnitude 7 on this fault are 22% over the next 30 years.

**San Andreas Fault Zone:** This major fault is located approximately 19 miles southwest of Windsor and is capable of generating a magnitude 8.3 earthquake. This fault is responsible for the 1989 Loma Prieta earthquake (magnitude 7.1) and the 1906 San Francisco earthquake (magnitude 7.8). The USGS has estimated that there is a 22% chance that a rupture of magnitude 6.7 or greater will occur on this fault before 2036.

**Maacama Fault Zone:** This 30 mile-long fault system is located five miles east of Windsor. It is estimated that this fault is capable of generating a maximum credible earthquake of magnitude 7.8.

There is also potentially active unnamed fault between U.S. 101 and the Healdsburg-Rodgers Creek fault zone. The California Alquist-Priolo Act which requires a geologic investigation before construction of buildings intended for human occupancy near active fault zones, has established two area of required investigation along the Rodgers Creek and Maacama fault zones in the Windsor area.

The Warm Springs Dam is located 12 miles west of Healdsburg. In the event of a breach of that dam, the entire town would experience flooding, except areas above 100 feet of elevation.

The Town has FEMA identified 100-year floodplains along the two creeks and flooding is a significant concern within the Town.

In addition to the maps available on the ABAG website at <http://quake.abag.ca.gov/mitigation/>, hazard maps specific to the Town for earthquake shaking, flooding and other hazards can be found in the Town's General Plan.

## Past Occurrences of Disasters (natural and human-induced)

The Town has had a number of landslides in the hills on the east side of the Town, including one that damaged 12 homes in 1980, which was included in the 2005 Town of Windsor Annex.

The Town was also impacted by the 2005-2006 Winter Storms (December 17, 2005 to January 12, 2006) and the 2006 Spring Storms (March 29, 2006 to April 1, 2006). General impacts from the winter storms were flooding and power outages. Public works crews assessed the flooded areas and were able to clean out blocked drainage trash gates, removed debris from ditches and culverts, and placed flooded, road closed ahead, and road closed signs, as needed, on flooded road sections to warn the public of flooded areas. Public works has some provisions for sandbags – primarily available only to areas where living space would be flooded or impacted. In areas where trees fell in the roadway, the trees were moved out of the roadway and when the storm cleared the trees were cut up and removed.

Since 1855, more than 140 earthquakes have been felt in the Santa Rosa area. The 1906 earthquake caused 61 deaths and major damage in Santa Rosa, Sebastopol, Healdsburg and other communities. The last major earthquake in Sonoma County was the 5.7 magnitude event on the Healdsburg fault in Santa Rosa in 1969. Since 1965 nine major earthquakes have resulted in significant physical and structural damage in Sonoma County. Analysis of seismic data indicates that 8.5 and 7.5 magnitude earthquakes can be expected for the San Andreas and the Healdsburg-Rodgers Creek faults respectively. Earthquakes of 8.0 or more on the San Andreas fault can be expected every 50 to 200 years. (From Sonoma County General Plan)

More information on State and Federally declared disasters in Sonoma County can be found at <http://quake.abag.ca.gov/mitigation/ThePlan-D-Version-December09.pdf>

## Risk Assessment

The Town of Windsor has risks that differ from the rest of the Bay Area. There are no railways or fixed rail transit serving the Town that could be vulnerable to earthquakes. Unlike some parts of the Bay Area, the town is influenced by three major faults all with different risks to the Town. The two creeks running through the town make it more susceptible to flooding than many parts of the Bay Area. Drought and reliable drinking water are a particular concern to the Town.

## Urban Land Exposure

The Town examined the hazard exposure of Town urban land based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. The Town's hazard exposure is the same as those identified in the 2005 Annex.

The Town examined its hazard exposure of urban land based on information in ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. The "2005 Existing Land Use with 2009 Mapping" file was used for this evaluation (in the existing plan, the file used was "Existing Land Use in 2000"). Of the 2,501 urban acres in the Town,

<b>Exposure (acres of urban land)</b>			
<b>Hazard</b>	<b>2005</b>	<b>2010</b>	<b>Change</b>
<i>Total Acres of Urban Land</i>	4,296	4,299	3
Earthquake Faulting (within CGS zone)	64	69	5
Earthquake Shaking (within highest two shaking categories) <sup>1</sup>	4,204	4,161	(43)
Earthquake-Induced Landslides (within CGS study zone) <sup>2</sup>	-	-	-
Liquefaction (within moderate, high, or very high liquefaction susceptibility) <sup>3</sup>	-	-	-
Flooding <sup>4</sup> (within 100 year floodplain)	277	269	(8)
Flooding (within 500 year floodplain)	239	251	12
Landslides (within areas of existing landslides)	12	12	0
Wildfire (subject to high, very high, or extreme wildfire threat)	11	34	23
Wildland-Urban Interface Fire Threat	1,340	1,362	22
Dam Inundation (within inundation zone)	712	707	(5)
Tsunamis <sup>5</sup> (within inundation area)	not applicable		
Drought <sup>6</sup>	4,296	4,299	3

<sup>1</sup> In large part because the Rogers Creek Fault extension of Hayward Fault that runs past the eastern side of the Town

<sup>2</sup> The California Geological Survey continues to map Sonoma County but some areas of the County have not yet been completely mapped.

<sup>3</sup> The California Geological Survey continues to map Sonoma County but some areas of the County have not yet been completely mapped

<sup>4</sup> The decrease of 8 acres is due to better and more accurate mapping.

<sup>5</sup> The Town of Windsor is not subject to tsunami inundation.

<sup>6</sup> The entire Town is subject to drought.

## Infrastructure Exposure

The Town also examined the hazard exposure of infrastructure based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. Windsor does not have any fixed rail transit facilities within its limits and only has 4 miles of rail. Only miles of roadway exposure were evaluated.

Exposure (miles of infrastructure)		
Hazard	Roadway	
	Plan Year 2005	Plan Year 2010
<i>Total Miles of Infrastructure</i>	106	113
Earthquake Shaking (within highest two shaking categories)	106	113
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	42	51
Liquefaction Hazard (within CGS study zone)	-	-
Earthquake-Induced Landslides (within CGS study zone) <sup>1</sup>	-	-
Earthquake Faulting (within CGS zone)	0	0
Flooding (within 100 year floodplain)	4	3
Flooding (within 500 year floodplain)	6	6
Landslides (within areas of existing landslides)	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0
Wildland-Urban Interface Fire Threat	29	32
Dam Inundation (within inundation zone)	2	22
Tsunamis <sup>2</sup> (within inundation area)	not applicable	
Drought <sup>3</sup>	-	

<sup>1</sup>The California Geological Survey continues to map Sonoma County but some areas of the County have not yet been completely mapped.

<sup>2</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Miles of exposed infrastructure is not an appropriate analysis for this hazard. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>3</sup> Miles of exposed infrastructure is not an appropriate analysis for this hazard.



## Exposure of Town Owned Buildings, Plus Critical Healthcare Facilities and Schools

The Town examined the hazard exposure of critical health care facilities, schools, and Town-owned buildings based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickcrit2010.html>.

Of the critical facilities in the Town,

Exposure (number of facility types)								
Hazard	Hospitals		Schools		Locally owned bridges and interchanges		Locally owned critical facilities	
	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010
<i>Total Number of Facilities</i>	1	2	7	13	5	12	26	8
Earthquake Shaking (within highest two shaking categories)	1	2	7	13	0	8	0	8
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	0	1	3	0	6	1	14	0
Liquefaction Hazard (within CGS study zone) <sup>1</sup>	-	-	-	-	-	-	-	-
Earthquake-Induced Landslides (within CGS study zone) <sup>2</sup>	-	-	-	-	-	-	-	-
Earthquake Faulting (within CGS zone)	0	0	0	0	0	0	0	0
Flooding (within 100 year floodplain)	0	1	0	0	0	2	0	0
Flooding (within 500 year floodplain)	0	0	0	0	0	1	0	2
Landslides (within areas of existing landslides)	0	0	0	0	0	0	0	0
Wildfires (subject to high, very high, or extreme)	0	0	2	0	0	0	0	0

<sup>1</sup> Two county-owned critical facilities are outside the area that has been evaluated by CGS for this hazard

<sup>2</sup> The California Geological Survey continues to map Alameda County and added the Livermore-Altamont area in late 2009. Though some areas of the County have not yet been completely mapped, the densely populated areas in Alameda County are mostly done.

wildfire threat)								
Wildland-Urban Interface Fire Threat	0	0	4	7	0	2	6	4
Dam Inundation	0	1	0	3	0	3	0	2
Sea Level Rise (within 16 in inundation zone)	-	0	-	0	-	0	-	0
Sea Level Rise (within 55 in inundation zone)	-	0	-	0	-	0	-	0
Tsunamis <sup>3</sup> (within inundation area)	-	0	-	0	-	0	-	0
Drought <sup>4</sup>	not applicable							

### *Repetitive Loss Properties -*

In spite of the areas of the Town located in flood-prone areas, there are no repetitive loss properties in the Town of Windsor based on the information at <http://quake.abag.ca.gov/mitigation/pickflood.html>.

### *Other risks*

The Town is subject to periodic drought conditions as part of the climacteric cycle for the region. Since the Town is a domestic drinking water provider, the Windsor Water Master Plan contains mitigation programs for providing drinking water during drought conditions. The Town will continue to work with ABAG, the Sonoma County Water Agency, and the various other water supply agencies on this issue.

In summary, the major potential disaster impacts to the Town are flood and earthquake effects. The Town through its cooperative disaster planning agencies including the Windsor Fire District and the Sonoma County Office of Emergency Services has done extensive planning to mitigate disasters. The Town plans to continue to work with ABAG to develop specific information about the kind and level of damage to buildings, infrastructure, and critical facilities which might result from any of the hazards previously noted.

## **National Flood Insurance Program**

The Town of Windsor has participated in the National Flood Insurance Program (NFIP) since 1992. To date, the Town has not participated in the Community Rating System. Staff anticipates seeking Town Council direction for participation in the Community Rating System. The Town started participation in the NFIP on September 23, 1992. On May 7, 2008, an update was adopted, which reflected the current requirements of the NFIP for non-coastal communities. In

<sup>3</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>4</sup> Drought will not affect locally owned facilities directly.

addition to using FEMA maps to regulate flood hazard areas the Town may require elevation certificates at the building permit stage to verify compliance with NFIP requirements.

## Mitigation Goals and Objectives

The goal of the ABAG MJ-LHMP is to maintain and enhance a disaster-resistant region by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters. This goal is unchanged from the 2005 plan and continues to be the goal of the Town of Windsor in designing its mitigation program.

Additionally, the Town has the specific objective of reducing the number of public and private buildings within the Town that are vulnerable to the effects of earthquakes.

## Mitigation Activities and Priorities

### *Evaluation of Progress from 2005 Plan*

In 2005, general mitigation actions and priorities were identified, but no specific projects were identified for implementation. However the town has been focused on mitigation since the development of that plan and those actions are summarized here.

**Economy Mitigation Strategies:** The Town reviews current code requirements and adopts the most current and applicable building code standards. In addition, the Town's Zoning Ordinance has provisions for the protection of historic structures and encourages the preservation of historic resources. The Town has adopted a Fire Sprinkler Ordinance and works closely with the local Fire Protection Districts on requiring fire sprinklers systems. The Town's departments and divisions work closely in reviewing plans for compliance with current code requirements to reduce the risks of damage due to flooding and fires.

**Education Mitigation Strategies:** Education facilities are under the Windsor Unified School District/Sonoma County Office of Education. However, the Town does have a close working relationship with the School District.

**Environmental Mitigation Strategies:** The Town continues to enforce the California Environmental Quality Act (CEQA) requirements for all development. Mitigation is incorporated to ensure protection and preservation of the environment. The Town has adopted sustainable building practices and standards such LEED and Green Building Code and requires compliance in all construction and development projects. The Town adopted a Water Efficient Landscape Ordinance and encourages the use of reclaimed water or at a minimum plumbing for future use of reclaimed water. Other energy saving measures are incorporated into development projects such as installation/plumbing for photovoltaic's, drought tolerant landscape materials, water saving plumbing fixtures, etc.

**Government Mitigation Strategies:** The Town is an active participant in the local disaster preparedness program, EOC and continues to work closely with the local Fire Protection

District and Police/Sheriff Departments. The Town's Staff Review Committee (SRC) meets twice monthly to review development projects. The SRC includes representatives from fire and police.

**Health Mitigation Strategies:** Sonoma County is the responsible agency for these strategies. The County would be notified of any health related facility construction within the Town's boundaries.

**Housing Mitigation Strategies:** The Town continues to review and adopt current building codes. The Town adopted a Fire Sprinkler Ordinance and uses the California Historical Building Code for historically significant structures. The Town has adopted a Master Fee Schedule that is updated on a regular basis. The fees are collected on development projects to ensure that development pays its fair share for improvements to storm drain and utility systems.

**Infrastructure Mitigation Strategies:** The Town has adopted an ordinance that requires the undergrounding of overhead utilities as a condition of development. In addition, the Town continues to work closely with the Regional Water Quality Control Board and other resources agency to ensure the protection of local creeks and waterways. The Town recently updated their Design and Construction Standards to ensure compliance with new local, state, and federal requirements. In June 2009, the Town of Windsor completed a Draft Water Master Plan Update (WMP) to replace the 2000 Water Master Plan that was certified nearly a decade earlier. The goal of the WMP Update is to establish a Capital Improvement Program (CIP) for the Town of Windsor to ensure the water distribution system continues to reliably deliver sufficient water for existing and future water customers. In 2010, Town adopted the Storm Water Quality Manual and Storm Water Management Plan.

**Land Use Mitigation Strategies:** The Town continues to enforce relations of new development in or near floodplains, encouraging buffer/setback area from waterways. The Town's Zoning Ordinance has established creek setbacks to ensure creek protection and to limit impacts from flooding. The Town incorporates Best Management Practices for all development practices and requires the installation of erosion control measures prior to the start of construction. These measures are monitored to ensure that they are in good repair and in place during the course of construction.

### *Future Mitigation Actions and Priorities*

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of the Town of Windsor helped in the development and review of the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decision on priority was made based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include being technically and administratively feasible, politically acceptable, socially appropriate, legal, economically sound, and not harmful to the environment or our heritage. Representatives from multiple departments then met on a regular basis to review progress on the Town's 2005 strategies, to identify and prioritize additional mitigation strategies to update the list. In selecting

projects for implementation in the next 5 years, the participants selected projects where the benefits out-weighed the costs.

The draft priorities will be provided to the Windsor Town Council for adoption pending approval of this LHMP by FEMA.

The Town has established priorities related to pedestrian activity, climate change, infrastructure, and building construction. The Town is undertaking the following:

- In October 2010, the Town Council considered adoption of the 2010 California Code of Regulations, Title 24. The code became effective January 1, 2011 and applies to all construction activity within the Town boundaries. The California Building Code is comprised of 11 parts that incorporate public health, safety, energy, green building and access standards used in the design and construction of all buildings. The new code provisions will allow the Town to utilize the latest technologies, advances in construction standards and seismic design for use in residential and commercial construction.
- In June 2010, the Town did an RFP for the Preparation of the 2010 Urban Water Management Plan. In July 2010, the Town Council approved the professional services agreement for preparation of the plan. The plan addresses adequate water supply for existing and projected growth for the Town. Funding for this plan comes from the Town's rate payers.
- The Town adopted the Windsor Bicycle and Pedestrian Plan in May 2008. The Town's recognizes the need to connect the newly constructed downtown area with older housing supply. New developments are required to provide for the addition of pedestrian trails and bike lanes within their development plans. This includes improvements along creek corridors, pedestrian pathways, and addition/improvements related to bike lanes. Staff's goal is to develop a policy to address dedications, level of and location of improvements, etc. to address the goals of the plan. Reducing reliance on automobiles reducing green house gases and mitigated the effects of global warming.
- The Town recently awarded a contract to complete drainage upgrade improvements on Pleasant Avenue and Pueblo Viejo Park.
- The Town of Windsor was awarded Community Development Block Grant (CDBG) funding in Fiscal Year 2008-09 in the amount of \$65,000 for the design and construction of the Joe Rodota Way Sidewalk Improvement Project. The project includes ADA compliant pedestrian improvements along the north side of Joe Rodota Way between the Town of Windsor Civic Center and Windsor Road. Improvements include installation of a sidewalk from the Civic Center to Windsor Road, ADA accessible pedestrian ramps and appropriate street signage. The project improves access to Old Downtown Windsor. Currently, no ADA compliant route for pedestrians is available between the Civic Center and Windsor Road, making it necessary to walk in the right of way of Joe Rodota Way in order to access the Civic Center from Windsor Road which resulted in potentially unsafe conflicts between automobiles and pedestrians. The project is under construction and should be completed in the near future.
- The Town recently awarded a contract for the development of the North Old Redwood Highway Infrastructure Plan to address utility infrastructure (potable water, sanitary sewer, and storm drain facilities) to serve undeveloped and underdeveloped properties in

The Town continues to search for funding opportunities through Tax Increment money redevelopment funds, and other grant sources to implement the Town's plans and Capital Improvement projects related to public improvements and upgrades with an emphasis on public safety including bike, pedestrian, and drainage facilities.

### *On-Going Mitigation Strategy Programs*

The Town has many 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 underfunded. It is the Town's priority to find additional funding to sustain these on-going programs over time.

- Adoption and Training on California Code of Regulations, Title 24. (HSNG)
- Continue to be involved in the EOC through partnerships with local emergency response teams (ECON, GOVT, HSNG);
- Ensure that new development complies with CEQA and new Greenhouse Gas and Energy Requirements (ENV a-3, b-1 through b-13)
- Participation in FEMA's National Flood Insurance Program (GOVT-d-5)
- Participation in general mutual-aid agreements and agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters (GOVT-c-13);
- Coordinate with Town staff and local utilities to ensure emergency power and backup for critical power needs; (INFR-a-9);
- Ensure that new development undergrounds above ground utilities (INFR-a-12);
- Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards (LAND-c-2);
- Continue to repair and make structural improvements to storm drains, pipelines, and/or channels to enable them to perform to their design capacity in handling water flows as part of regular maintenance activities (INFR)

### **Incorporation into Existing Planning Mechanisms**

The Town has several planning mechanisms:

- ◆ General plan Public Health and Safety Element
- ◆ Capital Improvement Plan

The Town has a Public Health and Safety Element in its General Plan that includes a discussion of seismic and geologic, flood, fire, and emergency preparedness. In addition, the Town enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The Town 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 Town has a bi-annual budget and a 5-year Capital Improvement Program. The budget review and adoption includes review of the CIP and funding for the first two years of the CIP with review and priority ranking of the remaining three years of the CIP. The budget is reviewed 2-4 times a year by the department heads and updates are forwarded to the Town Council by the finance department every six months. Public health or safety issue identified in this plan that have not been budgeted for, could be approved by the Town Council through an amendment during the budget review process to address any funding needed to correct or address the issue. The amendment then becomes an adjustment to the current budget.

The Staff Review Committee (SRC) will continue to evaluate ways in which mitigation strategies identified in this planning process can be incorporated into other projects going on within the Town to support risk reduction across a broad range of projects and plans.

## Plan Update Process

As required Disaster Mitigation Act of 2000, the Town of Windsor will update this plan annex at least once every five years, by participating in a multi-agency effort with ABAG and other agencies to develop a multi-jurisdictional plan.

The Town of Windsor Planning Department will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis. However, the major disasters affecting the Town, legal changes, notices from ABAG as the lead agency in this process, and other triggers will be used. Finally, the Annex will be a discussion item on the agenda of the meeting of Department heads at least once a year in April. At that meeting, the department heads will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The Department heads will be responsible for determining if the plan should be updated.

The Town is committed to reviewing and updating this plan annex at least once every five years, as required by the Disaster Mitigation Act of 2000. The Town of Windsor Planning Department will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, the Town again plans to participate in the multi-jurisdictional plan. If ABAG is unwilling or unable to act as the lead agency in the multi-jurisdictional effort, other agencies will be contacted, including the County's Office of Emergency Services. Counties should then work together to identify another regional forum for developing a multi-jurisdictional plan.

The public will continue to be involved whenever the plan is updated and as appropriate during the monitoring and evaluation process. Prior to adoption of updates, the County will provide the opportunity for the public to comment on the updates. A public notice will be posted prior to the meeting to announce the comment period and meeting logistics.

## **Mitigation Plan Point of Contact**

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### ***Alternate Point of Contact***

Name: Pauletta Cangson

Title: Associate Planner

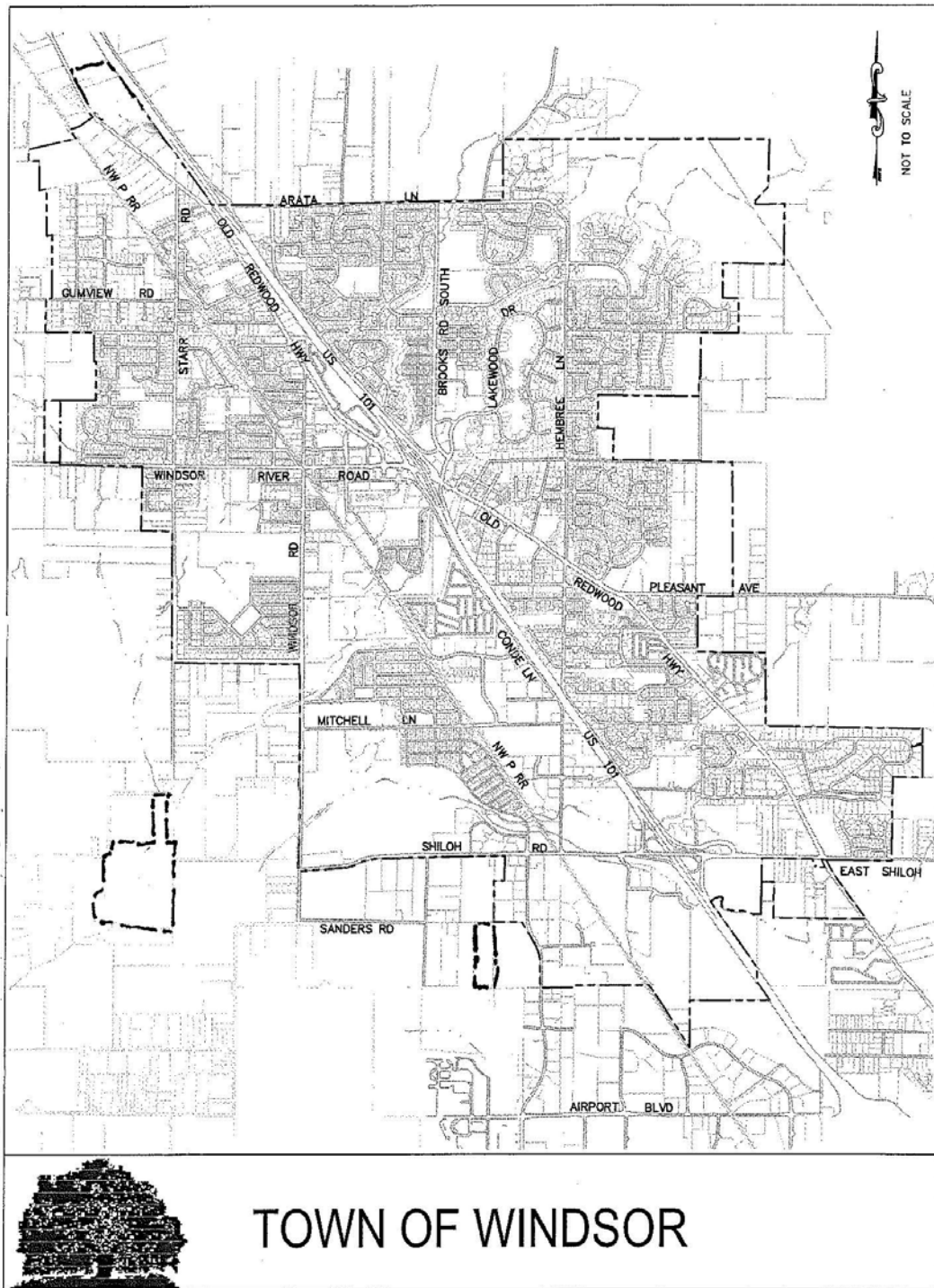
Mailing Address: P.O. Box 100, Windsor, CA 95492

Telephone: 707-838-5332

Email: pcangson@townofwindsor.com



# Exhibit A - Jurisdiction Boundary Map



## Exhibit B - Public Meeting Announcements

Town of Windsor Website Notice

Request for Public Input Notice

Notice of Public Hearing – Planning Commission

Staff Review Committee – Report July 23, 2009



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You are here: [Home](#) > [Departments](#) > [Planning](#) > Local Hazard Mitigation Plan

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- Admin. Permit Hearings:
  - Agendas & Notices
- Department Contacts
- Design Review
- Entitlements
- General Plan Amendment & Rezoning
- Historic Register
- Housing
- Permits
- Planning Commission
- Planning Review Options
- Subdivisions
- Trees
- Zoning
- Opportunity Parcel Map
- Local Hazard Mitigation Plan

## Local Hazard Mitigation Plan

### Request for Public Input

A natural disaster could strike the Bay Area at any time. The Town of Windsor is part of a multi-jurisd potential losses via its Local Hazard Mitigation Plan.

The Town of Windsor encourages you to provide comments (see [public notice](#)) on its [Local Hazard M](#) Please submit your comments by **September 21, 2009** to either:

Peter Chamberlin, Planning Director  
P.O. Box 100  
Windsor, CA 95492  
707-838-5335  
[pchamberlin@townofwindsor.com](mailto:pchamberlin@townofwindsor.com)

or

Pauletta Cangson, Associate Planner  
P.O. Box 100  
Windsor, CA 95492  
707-838-5332  
[pcangson@townofwindsor.com](mailto:pcangson@townofwindsor.com)



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**REQUEST FOR PUBLIC INPUT  
LOCAL HAZARD MITIGATION PLAN  
STRATEGY UPDATE**

Natural disasters could strike the Bay Area again during the next several years. Lives could be lost, property damage could occur, and our economy could suffer. Bay Area local governments are working to mitigate those losses through the multi-jurisdictional Local Hazard Mitigation Plan (MJ-LHMP) for the Bay Area.

In September 2005, the Town prepared a Local Hazard Mitigation Plan, Annex. The plan identified and prioritized mitigation strategies for nine hazards that impact the Bay Area. Five of the hazards are related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four are related to weather (flooding, landslides, wildfires, and drought). The Town continues to work with ABAG and other agencies in developing information. The Town committed to updating the plan at least once every five years, as required by the Disaster Mitigation Act of 2000. Town staff has reviewed the plan and prepared a draft update (**insert website location here**).

The Plan consists of Eight (8) Strategies as defined below:

- Strategy 1 - Infrastructure – Lifeline transportation and utility facilities and services.
- Strategy 2 - Health – Primarily related to hospitals, includes county health offices.
- Strategy 3 - Housing and Economy – Residential, Commercial, and Industrial buildings.
- Strategy 4 - Housing and Economy – Re-occupancy, repair and reconstruction, Public Education
- Strategy 5 - Government – Government facilities emergency response and recovery
- Strategy 6 - Education – School districts and county offices of education
- Strategy 7 - Environmental – Sustainability, climate change, and agriculture
- Strategy 8 – Land Use – Earthquake, fires, flooding, landslides, erosion, Smart Growth, and Sustainability

Please review the documents and provide your comments by September 21, 2009 to:

Peter Chamberlin, Planning Director  
P.O. Box 100  
Windsor, CA 95492  
(707) 838-5335  
[pchamberlin@townofwindsor.com](mailto:pchamberlin@townofwindsor.com)

or Pauletta Cangson, Associate Planner  
P.O. Box 100  
Windsor, CA 95492  
(707) 838-5332  
[pcangson@townofwindsor.com](mailto:pcangson@townofwindsor.com)

Additional information may be obtained at the ABAG San Francisco Bay Area Local Hazard Mitigation Plan <http://quake.abag.ca.gov/mitigation/>



Town of Windsor  
9291 Old Redwood Highway  
P.O. Box 100  
Windsor, CA 95492-0100  
Planning Department (707) 838-1021  
Fax (707) 838-7349

## MEMORANDUM

**TO:** Matt Mullan, Town Manager  
Richard Burt, Town Engineer and Public Works Director  
Steve Freitas, Chief of Police  
Jim McAdler, Administrative Services Director  
Steve Pantazes, Building Official  
Matt Gustafson, Windsor Fire Marshall

**FROM:** Peter Chamberlin, Planning Director  
Pauletta Cangson, Associated Planner

**DATE:** July 23, 2009

**SUBJECT:** Local Hazard Mitigation Strategy Update

The Town prepared a Local Hazard Mitigation Plan that was approved by the Town Council in September 2005. The Town committed to reviewing and updating the plan every five years. Planning staff has prepared a draft update for your review and comment. The Town is requesting public comments on the document. The document has been posted on the Town's website under the Planning Department page.

There are eight strategies to the plan.

1. Please review each strategy.
2. Review the responsible department and the priority to ensure that they are accurately depicted.
3. Please add any ordinance, resolution, or program information which has been adopted or approved.
4. If your priority does not match the regional priority (blue), please provide a short sentence to explain why.

Please address all questions, comments, or corrections by September 21, 2009 to:

Peter Chamberlin, Planning Director  
P.O. Box 100  
Windsor, CA 95492  
(707) 838-5335  
[pchamberlin@townofwindsor.com](mailto:pchamberlin@townofwindsor.com)

Pauletta Cangson, Associate Planner  
P.O. Box 100  
Windsor, CA 95492  
(707) 838-5332  
[pcangson@townofwindsor.com](mailto:pcangson@townofwindsor.com)

E:\60 - Planning & Building Dept\Planning Department\09\09-32 ABAG Multi-Juris Local Hazard Mitig Plan\Memo Local Hazard Mit. Plan PW Bldg Fire Review Request July 2009.doc

**TOWN OF WINDSOR  
PLANNING DEPARTMENT  
Windsor Civic Center, Building No. 400  
9291 Old Redwood Highway  
Windsor, CA 95492**

**File No. PPR 09-32**

## **NOTICE OF PUBLIC HEARING**

The Windsor Planning Commission will receive public comments on the updated Town of Windsor Local Hazard Mitigation Plan Annex Mitigation Strategies. The Local Hazard Mitigation Plan allows the Town to be eligible to receive federal matching funds to mitigate pre-disaster hazardous conditions.

This application has been determined to be categorically exempt from the provisions of the California Environmental Quality Act (CEQA) Section 15262 because it is a planning study.

The Town of Windsor Planning Commission will conduct a public hearing on this project on **Tuesday, September 22, 2009 at 5:30 p.m., or as soon thereafter as the matter may be heard**, in the Town of Windsor Council Chambers, Building 400, 9291 Old Redwood Highway, Windsor, CA.

The Town of Windsor encourages interested parties to attend public meetings and comment on the issues being discussed. If you wish to provide testimony and are unable to attend the meeting, written comments which are delivered to the Planning Department prior to the time of the hearing will be made a part of the public record. Contact: Pauletta Cangson, Associate Planner, at 707-838-5332 or Peter Chamberlin, Planning Director at 838-5335.

If you challenge the decisions on this matter in court, you may be limited to raising only those issues previously raised before the Town of Windsor Planning Commission at the hearing or in written form delivered to the Planning Department prior to or at the hearing.

Prior to the hearing, staff reports and agendas may be requested from the Planning Department for a minimal fee to recover reproduction costs. Staff reports and agendas are also accessible on the Town's web site on prior to the meeting at [www.ci.windsor.ca.us](http://www.ci.windsor.ca.us).

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in the Planning Commission meeting, please contact the Administrative Specialist at 707-838-1021. Notification at least 48 hours prior to the meeting will assist Town staff in assuring that reasonable accommodations are made to provide accessibility to the meeting.

## Exhibit C - Town of Windsor 2010 Mitigation Strategy Spreadsheet

[Available on LHMP CD or at <http://www.abag.ca.gov/bayarea/eqmaps/mitigation/strategy.html>]