



City of Tracy Hazard Mitigation Plan

Hazard Mitigation Planning Committee Meeting #1

Fire Administration – Upstairs Conference Room
835 Central Avenue, Tracy CA 95376


September 25, 2018

woodplc.com

Agenda

1. Introductions
2. Mitigation Planning and the Disaster Mitigation Act
3. Role of the Hazard Mitigation Planning Committee (HMPC)
4. Hazard Mitigation Plan
5. Review of Identified Hazards
6. Team Coordination & Collaboration
7. Community Outreach Strategy
8. Data Collection Guide/Other Information Needs
9. Schedule
10. Questions and Answers

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Introductions

- City of Tracy
 - Karin Schnaider (Finance Director/HMPC Coordinator)
- Wood Environment & Infrastructure Solutions, Inc.
 - Jeff Brislawn, CFM (Hazard Mitigation Lead)
 - Juliana Prospero, AICP (Project Manager)

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Trends Resulting in Increased Costs for Disaster Response & Recovery

- Population and community growth
 - More people living in hazardous areas
 - Greater exposure to risk
 - People, infrastructure, buildings
- More hazards
 - Technological, civil, terrorist hazards
- Continual increase in expenses
- More disaster declarations



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Mitigation Planning

Why addressing these trends is a priority?

- The spiraling costs of response and recovery
 - The cost of “doing nothing” is too much
- Many events are predictable and repetitive
- Loss reduction activities can be undertaken
 - They work
 - They’re cost-effective and environmentally sound
 - There are funds available to help
- There are legal and moral responsibilities

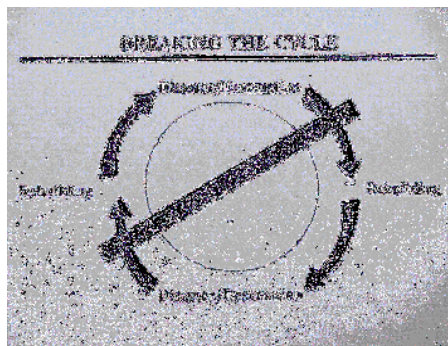
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Mitigation Planning

How can we reverse these trends?

- Mitigation defined: Any SUSTAINED action taken to reduce or eliminate long-term risk to human life and property from hazards



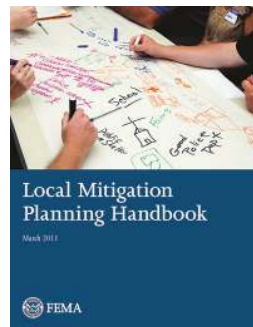
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Mitigation Planning –Why It's Important

Disaster Mitigation Act of 2000

- Requires local governments to have hazard mitigation plans for continued eligibility for mitigation funds, pre- and post- disaster
- Guide mitigation activities in a coordinated & economic manner
- Incorporate into other existing planning mechanisms
- Future Development: plan and build wisely
- Reduce losses
- Make community more disaster resistant (Resilience!)



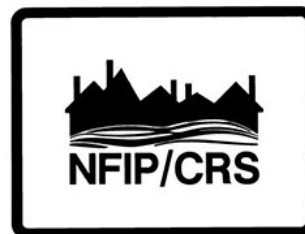
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Mitigation Planning

National Flood Insurance Program Community Rating System

- Created in 1990 as a voluntary incentive program
- Recognizes communities that manage their floodplains beyond the minimum standards by providing discounted flood insurance rates
- Floodplain Management Planning earns credits in CRS
- San Joaquin County is a CRS participant



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Mitigation Planning

FEMA's 4-Phase DMA Planning Guidance

Phase 1: Organize Resources

Phase 2: Risk Assessment

Phase 3: Develop a Mitigation Plan

Phase 4: Adoption and Implementation



Mitigation Planning

CRS 10-Step Process within the 4-Phase Guidance

Phase I: Organize Resources

1. Get organized
2. Plan for public involvement
3. Coordinate with other departments and agencies

Phase III: Develop a mitigation plan

6. Set planning goals
7. Review mitigation alternatives
8. Draft and action plan

Phase II: Risk Assessment

4. Identify the hazard(s)
5. Assess the risks

Phase IV: Adoption and Implementation

9. Adopt the plan
10. Implement the plan, evaluate its worth, and revise as needed



Mitigation Planning

FEMA's 2013 Nine-Step Process

- Step 1** Determine the Planning Area and Resources
- Step 2** Build the Planning Team
- Step 3** Create an Outreach Strategy
- Step 4** Review Community Capabilities
- Step 5** Conduct a Risk Assessment
- Step 6** Develop a Mitigation Strategy
- Step 7** Keep the Plan Current
- Step 8** Review and Adopt the Plan
- Step 9** Create a Safe and Resilient Community

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Phase I: Organize Resources

- 1) Get organized
- 2) Plan for public involvement
- 3) Coordinate with other department and agencies



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1) Get Organized – To Prepare the Plan

- Obtain community commitment to mitigation
- Determine and assign staff
- Establish your mitigation planning team

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1) Get Organized – Establishing Your Hazard Mitigation Planning Committee (HMPC)

- **City Departments**
 - Public Works
 - Utilities
 - Human Resources
 - Finance Department
 - Fire Department
 - Development Services
 - Building Safety and Fire Prevention
 - Code Enforcement
 - Engineering
 - Economic Development
 - Planning Division
 - Parks and Recreation
 - Police Department
 - City Manager's Office, City Clerk's Office, City Attorney's Office
 - Information Technology/GIS

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2) Plan for Public Involvement

- **Requirement:** Provide Two Opportunities
 - During Drafting Stage
 - Prior to approval

- Advantages:
 - Solutions fit local needs better
 - Strengthens local support for plan
 - Special interests are considered; avoids being “Blind-Sided”
 - It is a fair process
 - Generates new ideas

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2) Plan for Public Involvement - *Options*

- Include on planning team

- Host public input meetings/workshops/open houses

- Piggy back on other public forums or related meetings (develop a Community Outreach Strategy)

- Use questionnaires/surveys

- Post draft plan online for comment prior to finalization

- Document process for 2018/2019 in plan

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3) Coordinate with Other Stakeholder Departments & Agencies

- San Joaquin County and San Joaquin Council of Governments
- County Regional Transit District and Bay Area Rapid Transit
- Pacific Gas & Electric
- Federal, Regional, Businesses, Academia
- Cal Fire
- CNRA
- Cal OES
- Neighboring Communities and Counties
- FEMA Region IX
- US Bureau of Reclamation
- US Forest Service
- NOAA/NWS
- Tracy Unified School District
- Hospitals (Sutter Tracy Community Hospital, Tracy Convalescent Hospital)

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Phase II: Risk Assessment

Three Components

- 4) Hazard identification (what can happen here?)
- 5) Vulnerability Assessment (what will be affected?)
 - Includes a Mitigation Capability Assessment



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4) Hazard Identification – *Has It Happened Here Before?*

- Identify all possible hazards affecting the planning area
- Profile the hazards
- Information sources:
 - Past disaster declarations
 - Planning team / community members
 - Existing plans and reports
 - GIS-based maps and data
 - Internet websites and databases
 - Newspaper / historical records
 - Local, state, and federal experts
 - Insurance data

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4) Hazard Identification – *Profile the Hazards*

- Hazard / Problem description
- Hazard extent (magnitude/severity)
- Past occurrences
- Seasonal patterns
- Speed of onset / duration
- Magnitude / secondary effects
- Significance
- Frequency / likelihood of future occurrences



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5) Vulnerability Assessment – *What Will Be Affected?*

- Inventory residential and commercial structures
- Inventory critical facilities and infrastructure
- Determine value of structures
- Determine the number of people in hazard areas
- Identify vulnerable infrastructure
- Identify development trends / constraints
- Identify historic, cultural, and natural resource areas
- Estimate losses

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Mitigation Capability Assessment

- Inventory of the community's existing and proposed policies, programs, and ordinances that may affect its vulnerability to hazards
- Evaluate the effectiveness of each for mitigation purposes. Note gaps, shortfalls or conflicts associated with their design, enforcement of implementation. Identify any special opportunities
- Determine the City's technical and fiscal abilities to implement mitigation initiatives. Include ability to attract and leverage funding

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Phase III: Develop a Mitigation Plan

- 6) Set planning goals
- 7) Review mitigation alternatives
- 8) Draft an action plan



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6) Set Planning Goals – *Using the Risk Assessment*

- Broad statements of what the plan is to achieve
- Based on risk
- Estimated losses
 - At-risk facilities and infrastructure (e.g. transportation utility lines?)
 - At-risk critical facilities
 - At-risk cultural and natural resources
- Goals from other existing plans
- Other opportunities
 - At-risk areas and facilities for future development
 - Repetitive losses
 - Public education
 - Increased insurance coverage

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7) Review Mitigation Alternatives

- Prevention
- Property protection
- Natural resource protection
- Emergency services
- Structural projects
- Public information
- Multi-hazard measures and considerations
- No action



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Review of Mitigation Alternatives – *Criteria for Selecting Mitigation Measures*

- | | |
|---|---|
| <ul style="list-style-type: none"> • Will it work? • Is it cost-beneficial? • Is it affordable? • Is it legal? • Is it fair? • Do people want it? • Are there administrative burdens? • Is it politically acceptable to community leaders? • Is it environmentally sound? • Is funding available? | <p>Example Hazard Mitigation Projects Eligible for FEMA funding:</p> <p><u>Wildfire</u></p> <ul style="list-style-type: none"> • Defensible space • Hazardous fuels reduction activities (e.g. vegetation removal) • Implement ignition-resistant construction techniques <p><u>Flood</u></p> <ul style="list-style-type: none"> • Dry and wet flood proofing • Flood reduction projects (e.g. detention ponds, channel stabilization) <p><u>Other-General</u></p> <ul style="list-style-type: none"> • Utility protection/infrastructure retrofit • Adding generators |
|---|---|

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Phase IV: Adopt & Implement the Plan

- 9) Adopt the Plan
 - Official Adoption by Council
 - Public input before adoption

- 10) Implement the Plan
 - Assign an overall project manager
 - Integrate actions into staff work plans
 - Monitor changes in vulnerability
 - Report on progress, publicize successes
 - Revise the plan as necessary (every 5 years for DMA)

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Role of the Hazard Mitigation Planning Committee And The Benefits

- Coordination and collaboration on mitigation strategies
- Creating eligibility for funding for mitigation projects
- Attend meetings and participate in the planning process
- Provide requested information
- Review drafts and provide comments
- Identify mitigation projects specific to department; provide status
- Assist with and participate in the public input process
- Coordinate formal adoption

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Hazard Mitigation Plan

What goes into the plan?

- Section 1 – Introduction
- Section 2 – Community Profile
- Section 3 – Planning Process
- Section 4 – Risk Assessment, plus Capability Assessment
- Section 5 – Mitigation Strategy
- Section 6 – Plan Adoption
- Section 7 – Plan Implementation and Maintenance

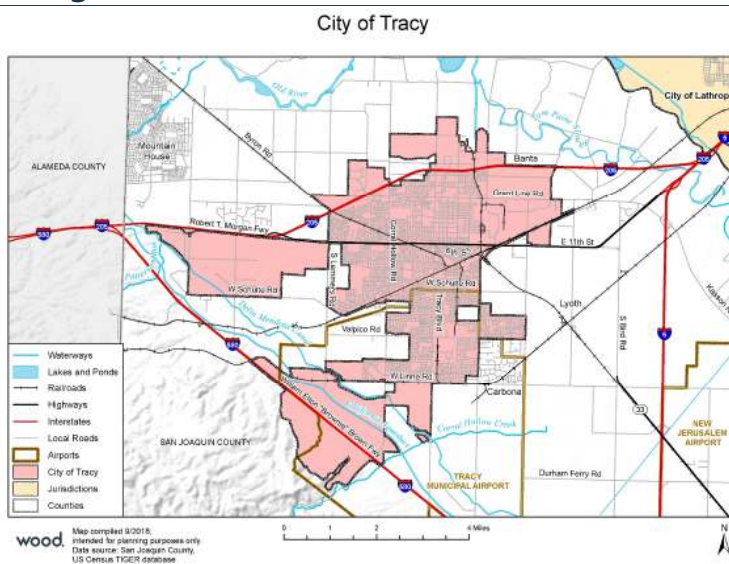
- Appendices and Annexes

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Review of Identified Hazards

Planning Area



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Review of Identified Hazards

Hazards of Concern

- Flooding – Riverine and Stormwater
- Dam and Levee Failure
- Seismic Hazards, Geologic Hazards (e.g. earthquake, ground failure/land subsidence, slope instability)
- Wildland Fire
- Drought and Water Shortage
- Meteorological Hazards (e.g. lightning, hail, tornado, severe weather)
- Health Hazards
- Human-Caused Hazards
- Climate Change
- Transportation-Related Hazards
- Others?

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Team Coordination

Example Goals from Past Plans

- Increase community awareness of vulnerability to natural hazards
- Provide protection of life and public health and safety
- Reduce risk and vulnerability of people, property, infrastructure, and the environment to natural and man-made hazards
- Maintain current service levels and prevent loss or services
- Improve overall education, coordination, and communication with staff, first responders, planners, emergency managers, the public, and other stakeholders



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Team Coordination

Example Mitigation Projects from Other Plans

- Become a "StormReady" community
- Improve grading and drainage of wastewater effluent storage ponds
- City CWPP implementation
- Increase web-based public information outreach
- Acquire property in High Hazard Zones
- Implement facility-specific flood mitigation projects
- Retrofit manhole covers
- Enhance on-site coordination with Cal FIRE during fire events
- Construct fire resistant electrical control panels
- Develop mutual aid agreements with water providers and local and regional agencies for support during emergencies

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Team Coordination

Related Planning Efforts

- Other plans, regulations, and practices
- Integration and consistency with General Plan(s), City Codes, etc.
- Flood Mitigation Master Plans/Stormwater Plans/Greenways plans/watershed plans
- San Joaquin County Regional Transportation Plan & Sustainable Communities Strategy
- City Sustainability Plan
- Community Wildfire Protection Plan?
- City Drought Plan?
- Capital Improvement Plan?
- Climate Preparedness Plan?

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Community Outreach Strategy

Planning for Public Involvement

- Any opportunities for outreach at scheduled public meetings or events?
- Developing a Community Outreach Strategy
 - Education, information, and coordination on the HMP process
 - Hazard Mitigation Plan Website
 - Regular Website Postings
 - Newsletters
 - Online Public Survey
 - Public Workshops
 - Training Sessions?
- Other ideas/recommendations?



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Data Collection Guide/Other Information Needs

What's New in Mitigation Planning

- FEMA Local Hazard Mitigation Planning Guidance 2013
- Cal OES requires Capability Assessment in LHMPs
- Cal OES suggests incorporating climate change considerations
- Cal OES MyPlan and MyHazards Internet tools
- FEMA Plan Review Tool
 - Replaces old Plan Review Crosswalk
- New CRS guidance
- As a result of disasters, more FEMA \$ has been available for communities with HMPs to leverage for projects!

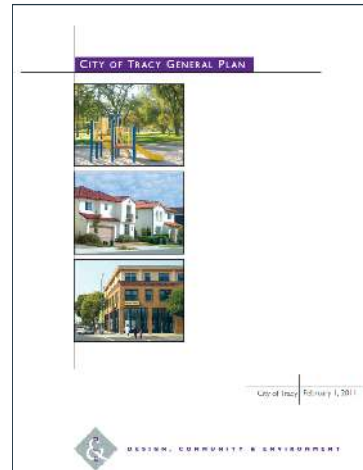
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Data Collection Guide/Other Information Needs

Hazard Information Resources

- What existing or recent plans, reports or studies exist?
 - Master plans
 - Floodplain map revisions
 - Safety Element updates to General Plans
 - Subsidence studies
 - Tree mortality inventories
 - Wildfire hazards



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Data Collection Guide/Other Information Needs

Initial Data Needs

- GIS Data Needs List
- Data Collection Guide
 - Worksheets #1 Hazard Identification
 - Worksheet #2 Historic Hazard Event
 - Worksheet #3 Vulnerability Assessment
 - Worksheet #4 Capability Assessment
- Recent hazard events
- Growth and development trends
- Recent updated plans and policies
- Follow-up with key staff where needed

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Data Collection Guide/Other Information Needs

Maximizing the Effectiveness of your Work Strategies

- Follow a Prescribed Planning Process
- Coordinate with ALL other Community Goals and Plans
- Seek Diversified Participation and Input
- Ask for Technical Assistance
- Establish Partnerships for Implementation



Schedule

When will we meet next?

Task or Key Milestone	Anticipated Date
Notice to Proceed	June 8, 2018
Project Kick-Off Meeting	August 9, 2018
Submit HMPC Invite List	September 11, 2018
HMPC Meeting #1	September 25, 2018
Submit Draft Community Engagement Study	October 5, 2018
City Review of Draft Community Engagement Study	October 12, 2018
Submit Final Community Engagement Study	October 19, 2018
Public Workshop	TBD
Prepare Hazard Identification and Risk Assessment	November 1, 2018
Develop GIS Geodatabase	November 1, 2018
HMPC Meeting #2	TBD
HMPC Meeting #3	TBD
Finalize Goals and Objectives	February 15, 2019
Compile Mitigation Actions Worksheets	March 1, 2019
Submit 1 st Administrative Draft HMP	March 15, 2019
City provides Consolidated Staff Comments on 1 st Administrative Draft HMP	March 29, 2019
Submit 2 nd Administrative Draft LHMP	April 12, 2019
Circulate Public Review Draft LHMP	April 19, 2019
Public Review Ends	May 18, 2019
Complete FEMA Region IX Review Tool	May 31, 2019
Submit LHMP to FEMA for Review	June 4, 2019
Submit to Cal OES for Review	July 18, 2019
City Council Hearing	August 6, 2019*

*City Council Meetings are held on the first and third Tuesdays of each month



Questions?

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