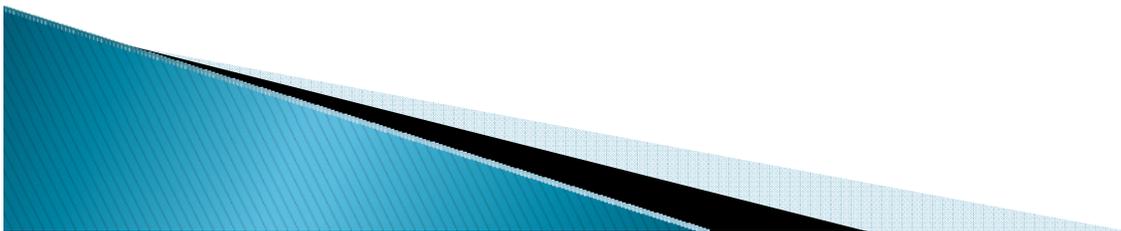


Flooding & Floodplain Management

Envision San Jose 2040
04.28.08 Task Force Meeting



Flooding in San José

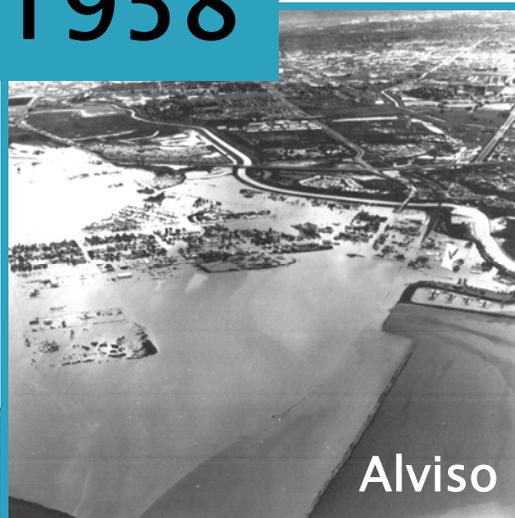
1911



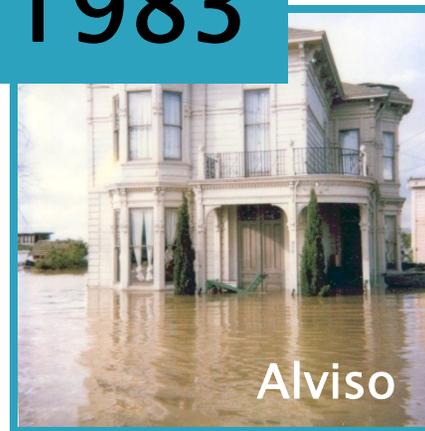
1997



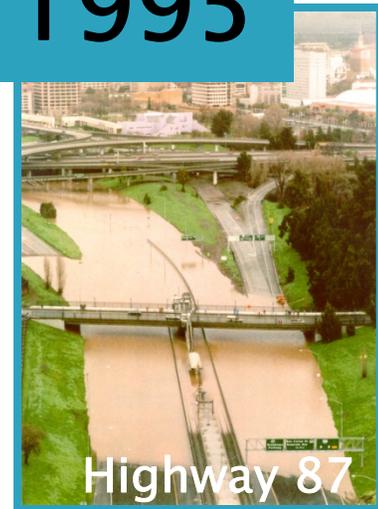
1958



1983



1995

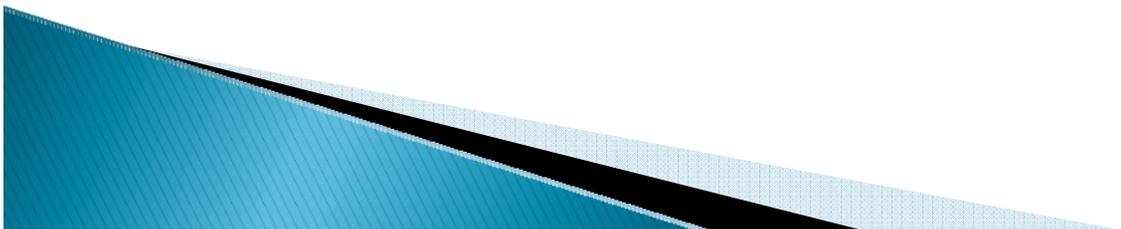


San José 2020 General Plan Flooding Policies

1. New development should be designed to provide protection from potential impacts of flooding during the "1%" or "100-year" flood.
 2. Development in watershed areas should only be allowed when adequate mitigation measures are incorporated into the project design to prevent unnecessary or excessive siltation of flood control ponds and reservoirs.
 3. Designated floodway areas should be preserved for non-urban uses.
 4. The City and the Santa Clara Valley Water District should cooperate to develop flood control facilities to protect the Alviso and North San José areas from the occurrence of the "1%" or "100-year" flood
 5. Appropriate emergency plans for the safe evacuation of occupants of areas subject to possible inundation from dam failure and natural flooding should be prepared and periodically updated.
 6. The City should support State and Federal legislation which provides funding for the construction of flood control improvements in urbanized areas.
 7. The City should require new urban development to provide adequate flood control retention facilities.
 8. The City should cooperate with the Santa Clara Valley Water District to develop additional flood control retention facilities in areas where existing retention facilities are nearing capacity.
- 

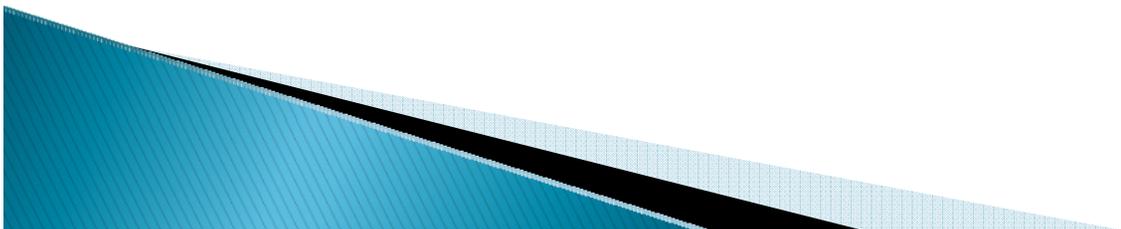
Reducing the City's Flood Risk

- ▶ The City participates in the National Flood Insurance Program (NFIP).
- ▶ **NFIP Goals**
 1. to protect communities from potential flood damage through floodplain management
 2. to provide people with flood insurance

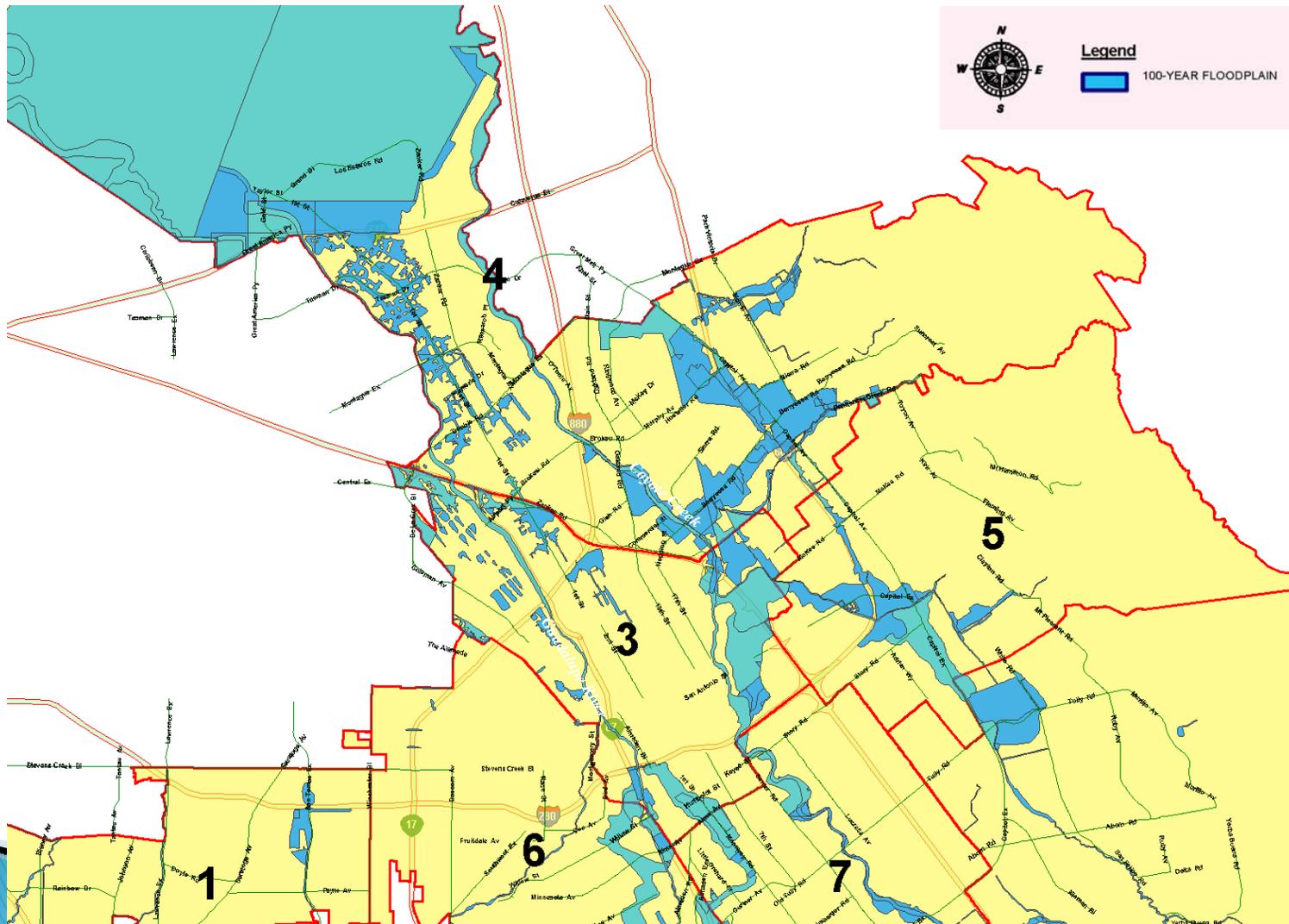


Recently Completed Flood Control Improvements

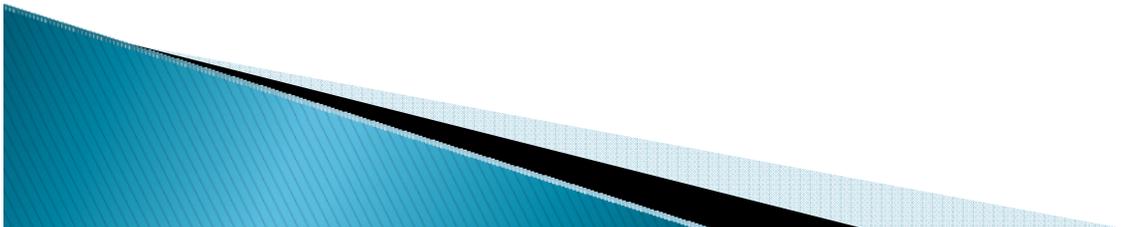
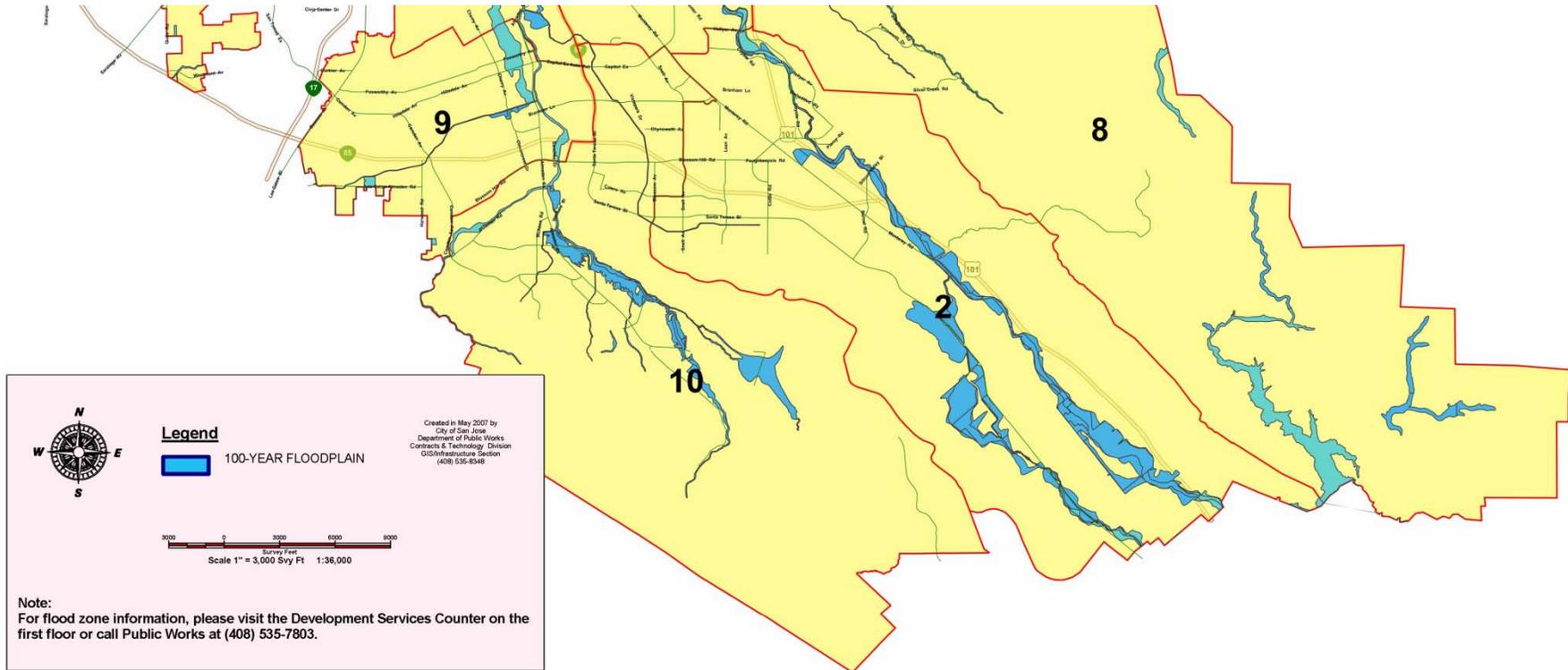
- ▶ **Lower Silver Creek Flood Protection Project (partial completion in 2006)** – from Interstate 680 to Coyote Creek confluence
- ▶ **Lower & Downtown Guadalupe Flood Protection Project (2004)** – from Interstate 280 to Highway 237
- ▶ **Coyote Creek Flood Protection Project (1995)** – from Trimble Road to the Bay



City's 100-Year Floodplains Northern Half

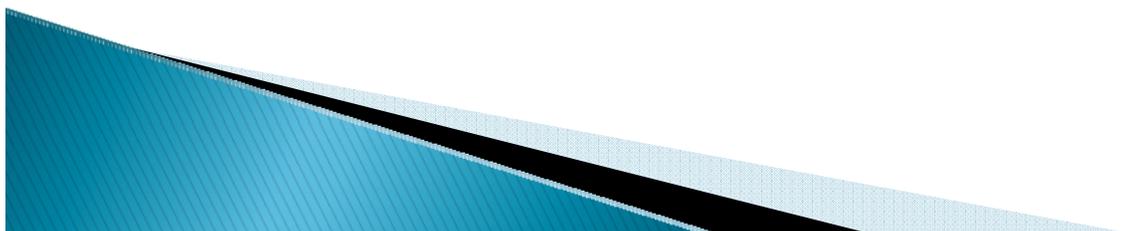


City's 100-Year Floodplains Southern Half



What are the chances of being flooded?

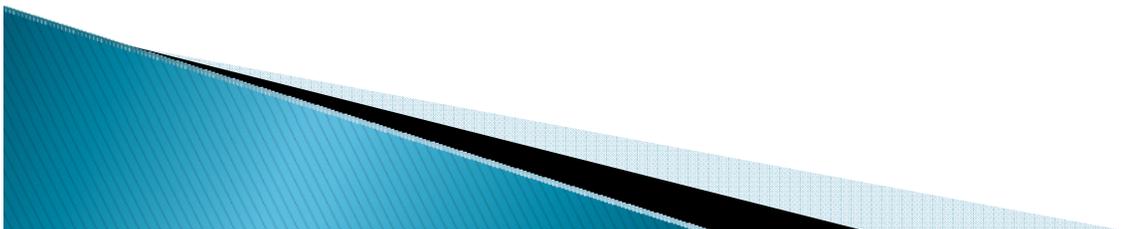
Time Period	Flood Size			
	10-year	25-year	50-year	100-year
1 year	10%	4%	2%	1%
10 years	65%	34%	18%	10%
20 years	88%	56%	33%	18%
30 years	96%	71%	45%	26%
50 years	99%	87%	64%	39%



City's Floodplain Management Ordinance

Municipal Code Chapter 17.08 Special Flood Hazard Area Regulations

- ▶ Adopted by City in December 1975
- ▶ Last revision effective February 2006
- ▶ Another proposed revision in 2008



Typical Flood Construction Requirements



ELEVATE
residential
buildings



ELEVATE or
FLOODPROOF
non-
residential
buildings



PROTECT
utility systems



INSTALL
FLOOD VENTS
on enclosures
below the
flood
elevation

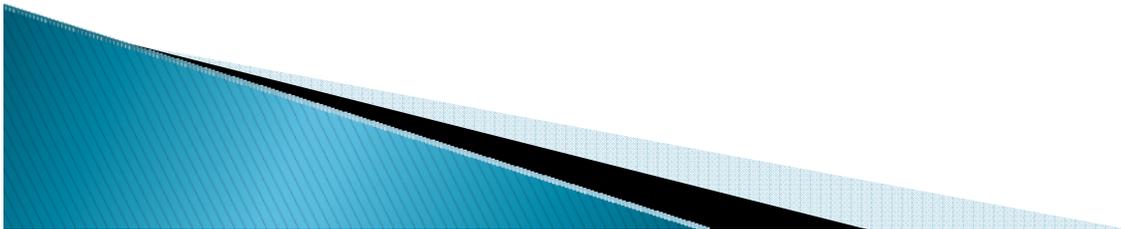
Flood Policies & Additional Requirements



North San José Blockage Study



Floodway Encroachments

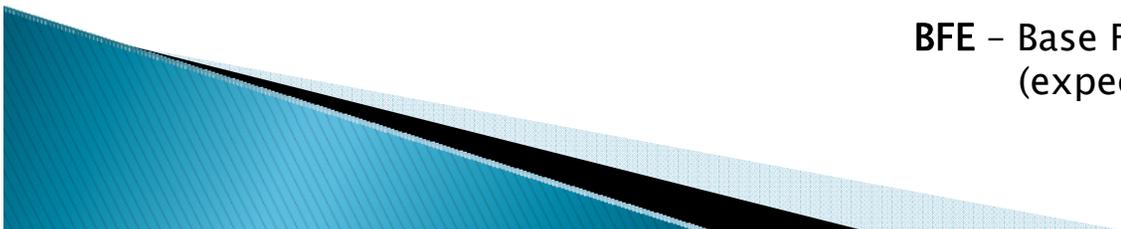


Flood Insurance

- ▶ Required for all buildings in mapped 100-year floodplains if financed by federally-backed loans or mortgages.

Approximate Annual Cost of NFIP Flood Insurance on a New Home (Zone AE, \$250K structure coverage and \$100K content coverage)	
+3 ft and higher	\$485
+2 ft to +3 ft	\$550
+1 ft to +2 ft	\$725
BFE to +1 ft	\$1,230
BFE to -1 ft	\$5,385
-1 ft and lower	EXPENSIVE!

BFE – Base Flood Elevation
(expected elevation during a 100-year flood)



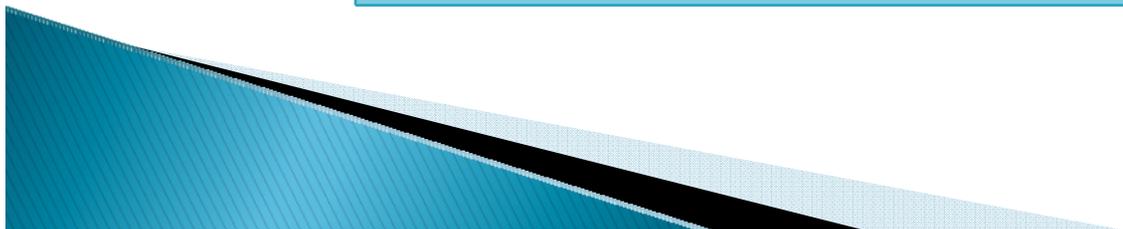
Community Rating System (CRS) Program

- ▶ The City has been a CRS participant since 1990.
- ▶ City's CRS activities result in discounted flood insurance premium rates for City's policy holders.

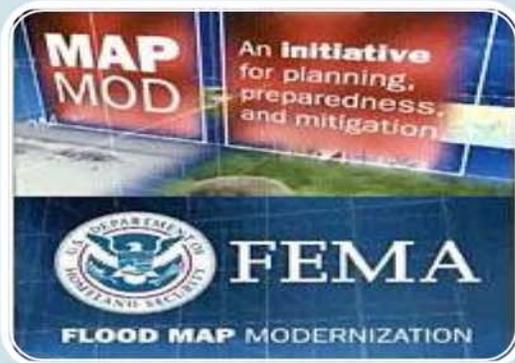


CRS *(continued)*

CRS Participants & Their Classes	
City of Cupertino	Class 8
City of Santa Clara	Class 8
Santa Clara County	Class 8
City of San Jose	Class 7
City of Morgan Hill	Class 7
City of Palo Alto	Class 7
City of Milpitas	Class 5



What's in the Future?



Flood Map Modernization (or Map Mod)

Includes Levee Flood Protection Recertification

State Legislation

Proposed 200-year flood protection requirement

Potential Flooding Impacts from Climate Change

Key points to consider in Envision San Jose 2040

- ▶ Parts of San José subject to infrequent major flooding.
- ▶ Recent flood control improvements and City's floodplain management program have reduced flooding risk.
- ▶ New developments allowed in urban floodplain areas subject to City's Floodplain Management Ordinance.

