

CENTRAL VALLEY FLOOD MANAGEMENT PLANNING PROGRAM



Appendix G

2012 Central Valley Flood Protection Plan: Glossary

2012 Central Valley Flood Protection Plan

Consolidated Final Program Environmental Impact Report

July 2012

SCH #: 2010102044

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An aerial photograph of a dam and a vineyard, overlaid with a semi-transparent teal color. The dam is a long, low structure with many small piers, extending across a wide river. In the foreground, there is a large vineyard with rows of grapevines. The background shows a cityscape and more land. The text 'Attachment 4' and 'Glossary' is written in white on the teal background.

Attachment 4

Glossary

CENTRAL VALLEY FLOOD MANAGEMENT PLANNING PROGRAM



2012 Central Valley Flood Protection Plan

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June 2012

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Glossary

100-year flood event	<p>The flood having a 1-in-100 (1 percent) chance of being equaled or exceeded in any given year. A structure located within a special flood hazard area shown on a National Flood Insurance Program map has a 26% chance of suffering flood damage during the term of a 30 year mortgage.</p> <p><i>Federal Emergency Management Agency, http://www.fema.gov/, accessed June 2009</i></p>
200-year floodplain	<p>An area that has a 1-in-200 (0.5 percent) chance of flooding in any given year, based on hydrological modeling and other engineering criteria accepted by the Department of Water Resources.</p> <p><i>California Government Code Section 65300.2(a)</i></p>
200-year flood event	<p>A flood having a 1-in-200 (0.5 percent) chance of being equaled or exceeded in any given year.</p>
500-year floodplain	<p>An area that has a 1-in-500 (0.2 percent) chance of flooding in any given year, based on hydrological modeling and other engineering criteria accepted by the California Department of Water Resources.</p>
500-year flood event	<p>A flood having a 1-in-500 (0.2 percent) chance of being equaled or exceeded in any given year.</p>
agricultural stewardship	<p>A public and private commitment to manage and preserve the resources and the conditions necessary for a robust and sustainable agricultural industry in California.</p>
adaptive management	<p>A scientific approach to resource management that rigorously combines management, monitoring and research to effectively manage complex ecosystems in the face of uncertainty. Adaptive management tackles uncertainty about the system head-on by identifying clear objectives, developing conceptual models of the system, identifying areas of uncertainty and alternative hypotheses, testing critical assumptions, monitoring to provide feedback about the system and actions, learning from the system as actions are taken to manage it, and incorporating what is learned into future actions.</p> <p><i>U.S. Geological Survey Designing Monitoring Programs in an Adaptive Management Context for Regional Multiple Species Conservation Plans</i></p>

**2012 Central Valley Flood Protection Plan
Attachment 4: Glossary**

anadromous fish	Fish that spend a part of their life cycle in the sea and return to freshwater to spawn.
annual exceedence probability	<p>A measure of the likelihood of exceeding a specified target in any year. For example, the annual exceedence probability of a 10-m levee might be 0.01. That implies that the annual maximum stage in any year has a 1-percent chance (0.01 probability) of exceeding the elevation of the top of the levee.</p> <p style="text-align: right;"><i>U.S. Army Corps of Engineers Risk-based Analysis for Flood Damage Reduction Studies Manual No. 110-2-1619</i></p>
annual pass rate	The percentage (on an annual basis) of levees that pass inspections according to Federal and State levee standards (e.g., maintenance, encroachment).
beneficiary	Partners, interested parties, and the general public who receive benefit from a flood management project.
Central Valley Flood Protection Board	The Central Valley Flood Protection Board (formerly The Reclamation Board) was created by the California Legislature in 1911 to carry out a comprehensive flood control plan for the Sacramento and San Joaquin rivers. The Board has jurisdiction throughout the Sacramento-San Joaquin Valley, which is synonymous with the drainage basins of the Central Valley and includes the Sacramento-San Joaquin Drainage District.
Central Valley Flood Management Planning (CVFMP) Program	The CVFMP Program falls under FloodSAFE California, a multiyear initiative led and managed by the California Department of Water Resources. Primary products of the CVFMP Program are the <i>State Plan of Flood Control Descriptive Document</i> , the <i>Flood Control System Status Report</i> , and the <i>Central Valley Flood Protection Plan</i> .
Central Valley Flood Protection Plan (CVFPP)	The CVFPP is a State plan that will describe the challenges, opportunities, and vision for improving integrated flood management in the Central Valley. The CVFPP will document current and future risks associated with flooding and recommend improvements to the State-federal flood protection system to reduce the occurrence of major flooding and the consequences of flood damage that could result. The plan will be submitted to the Central Valley Flood Protection Board by January 1, 2012, for adoption by the following July, and will be updated every 5 years.
Central Valley Floodplain Evaluation and Delineation (CVFED) Program	The CVFED Program falls under FloodSAFE California, a multiyear initiative led and managed by the California Department of Water Resources. The purpose of the CVFED Program is to provide standards, methodologies, and tools needed for floodplain assessments for FloodSAFE programs, consistent with U.S. Army Corps of Engineers and Federal Emergency Management Agency assessment needs. Primary products of the CVFED Program are the topography, hydraulic models, and multiple floodplain delineations associated with the State Plan of Flood Control.

conveyance capacity	The maximum rate of flowing water, usually expressed in cubic feet per second (cfs), that a river, canal, or bypass can carry without exceeding a threshold value such as flood discharge, or without using the freeboard distance from the top of a levee.
CVFMP Forum	Valley-wide or regional conference-style public meetings with presentations, workshops, panel discussions, and information booths. These forums are the primary venue for engaging a wide array of interests in discussing draft plan content and gauging agreement, and fostering information-sharing about regional and systemwide flood management challenges and potential solutions. Related FloodSAFE projects and programs will also use CVFMP Forums to engage interested parties efficiently.
CVFPP work group	Place-based (e.g., regional) and subject-based (e.g., topic) work groups chartered to develop content and content recommendations for the CVFPP. Work groups are integral to developing a broadly supported CVFPP that reflects the State, federal, tribal, local, and regional perspectives and subject-matter expertise.
design discharge (flow)	The rate of flowing water, usually measured in cubic feet per second (cfs), associated with the water surface profile or water level for which a flood management project was designed.
design flood	Means the selected flood against which protection is provided, or eventually will be provided, by means of flood protective or control works. When a federal survey has been authorized the design flood will be determined by the appropriate federal agency and in all other cases it will be determined by the responsible local agency. It is the basis for design and operation of a particular project after full consideration of flood characteristics, frequencies, and potentials and economic and other practical considerations. <i>California Water Code Section 8402(e)</i>
design standard	Minimum acceptable requirements for designed construction of flood management facilities (e.g., levees, control structures) when a facility was constructed. Design standards can change over time because of the improved understanding of risk factors; additions and changes in regulations and law; and social values and benefit considerations. In some cases, design standards today are different than when many of the SPFC facilities were constructed.
designated floodway	Means the channel of a stream and that portion of the adjoining flood plain required to reasonably provide for the construction of a project for passage of the design flood including the lands necessary for construction of project levees. <i>California Water Code Section 8402(f)</i>

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developed area An area of a community that is:

- A. A primarily urbanized, built-up area that is a minimum of 20 contiguous acres, has basic urban infrastructure, including roads, utilities, communications, and public facilities, to sustain industrial, residential, and commercial activities, and
 - 1. Within which 75 percent or more of the parcels, tracts, or lots contain commercial, industrial, or residential structures or uses; or
 - 2. Is a single parcel, tract, or lot in which 75 percent of the area contains existing commercial or industrial structures or uses; or
 - 3. Is a subdivision developed at a density of at least two residential structures per acre within which 75 percent or more of the lots contain existing residential structures at the time the designation is adopted.
- B. Undeveloped parcels, tracts, or lots, the combination of which is less than 20 acres and contiguous on at least 3 sides to areas meeting the criteria of paragraph (A) at the time the designation is adopted.
- C. A subdivision that is a minimum of 20 contiguous acres that has obtained all necessary government approvals, provided that the actual “start of construction” of structures has occurred on at least 10 percent of the lots or remaining lots of a subdivision or 10 percent of the maximum building coverage or remaining building coverage allowed for a single lot subdivision at the time the designation is adopted and construction of structures is underway. Residential subdivisions must meet the density criteria in paragraph (A)(3). (Section 59.1 of Title 44 of the Code of Federal regulations)

California Government Code Section 65007 (c)

ecosystem An ecosystem consists of all the organisms in a given area interacting with the physical environment. The biotic and physical components in an ecosystem are interdependent, frequently with complex feedback loops. The physical components that sustain the biota of an ecosystem include, but may not be limited to, the soil or substrate, topographic relief and aspect, atmosphere, weather and climate, hydrology, geomorphic processes, nutrient regime, and salinity regime.

ecosystem
rehabilitation A process where an ecosystem that has been degraded or disturbed is changed to an improved state that is not necessarily the pre-action "natural" state but is defined by providing the basic physical and ecological processes that support a functioning ecosystem.

ecosystem
restoration A process where an ecosystem, that has been degraded or disturbed is restored to mimic, as closely as possible through the restoration of critical natural processes, conditions which would naturally occur in an area.

ecosystem services	<p>Ecosystem services emanate from a functioning ecosystem and are the beneficial outcomes for the natural environment or for people that result from ecosystem functions. Some examples of ecosystem services are support of the food chain, harvesting of animals or plants, clean water, or scenic views. In order for an ecosystem to provide services to humans, some interaction with, or at least some appreciation by, humans is required.</p> <p style="text-align: right;"><i>California Department of Fish and Game, California Wildlife Action Plan, 2004</i></p>
encroachment	<p>Any obstruction or physical intrusion by construction of works or devices, planting or removal of vegetation, or by whatever means for any purpose, into any of the following: (1) any flood control project works; (2) the waterway area of the project; (3) the area covered by an adopted plan of flood control; or (4) any area outside the above limits, if the encroachment could affect any of the above.”</p> <p style="text-align: right;"><i>California Code of Regulations Title 23: Section 12899(b)</i></p>
environmental conservation	<p>The maintenance, enhancement, and restoration of populations, communities, and ecosystem functions to sustain the services, benefits, and values of public trust resources.</p>
environmental justice	<p>The fair treatment of people of all races, cultures, and incomes with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations, and polices.</p> <p style="text-align: right;"><i>California Government Code Section 65040.12 (c)</i></p>
environmental stewardship	<p>A concept and commitment of responsibility to manage and protect natural resources (water, air, land, plants and animals) and ecosystems in a sustainable manner that ensures they are available for future generations</p> <p style="text-align: right;"><i>California Department of Water Resources, Environmental Stewardship Policy Effective October 2010</i></p>
essential public facilities	<p>Essential public facilities include, but not limited to, hospitals and health care facilities, emergency shelters, fire stations, emergency command centers, and emergency communications facilities.</p> <p style="text-align: right;"><i>California Government Code Section 65302</i></p>
feasible	<p>Capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.</p> <p style="text-align: right;"><i>California Water Code Section 8307</i></p>

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flood	<p>Per the Federal Emergency Management Agency, a flood is defined as: A general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties (at least one of which is the policyholder's property) from:</p> <ul style="list-style-type: none">• Overflow of inland or tidal waters; or• Unusual and rapid accumulation or runoff of surface waters from any source; or• Mudflow; or• Collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or currents of water exceeding anticipated cyclical levels that result in a flood as defined above. <p><i>http://www.fema.gov/business/nfip/19def2.shtm</i></p>
flood basin	<p>A bowl-shaped, natural landform that historically or presently receives and retains floodwaters, or an engineered floodwater detention basin, excavated below grade or surrounded by levees.</p>
flood bypass	<p>An engineered wide and shallow channel or confined floodplain, usually flanked by levees, that receives floodwaters to reduce the amount of flow in a river or stream.</p>
flood corridor	<p>A passageway for floodflows, including, but not limited to, bypass systems, channels, levee systems, floodplain easements, culverts, floodwalls, or a combination thereof.</p>
Flood Control System Status Report (FCSSR)	<p>A report that will provide an assessment of the physical condition of facilities included in the State Plan of Flood Control and make recommendations regarding future California Departments of Water Resources work activities to address adverse conditions. This report will be revised periodically, as requested by the Central Valley Flood Protection Board.</p>
flood damages	<p>All damages caused by a flood including loss of life, physical damage, and economic damage.</p> <p><i>California Department of Water Resources, Draft FloodSAFE Strategic Plan, June 2008</i></p>
flood hazard zone	<p>An area subject to flooding that is delineated as either a special hazard area or an area of moderate hazard on an official flood insurance rate map issued by the Federal Emergency Management Agency. The identification of flood hazard zones does not imply that areas outside the flood hazard zones, or uses permitted within flood hazard zones, will be free from flooding or flood damage.</p> <p><i>California Government Code Section 65007(d)</i></p>

flood management	<p>The use of comprehensive methods to manage floodflows, providing multiple benefits in addition to protecting people and property.</p> <p style="text-align: right;"><i>DWR, Draft FloodSAFE Strategic Plan, June 2008</i></p>
flood management system	<p>Refers to the structural elements employed to convey floodflows within the CVFPP planning area, including facilities of the State Plan of Flood Control, flood control reservoirs, and nonproject levees.</p>
flood-prone areas	<p>Areas subject to flooding.</p>
flood protection	<p>Methods or structural measures used to mitigate flooding or reduce flooding hazards and risks.</p> <p style="text-align: right;"><i>Delta Protection Commission, Management Plan Update Compiled Draft Management Plan Glossary November 2009</i></p>
flood risk	<p>The probability of flooding combined with negative outcomes that could result when flooding occurs.</p>
floodplain	<p>An area adjacent to a stream or river that experiences occasional or periodic flooding.</p> <p style="text-align: right;"><i>California Department of Water Resources, Draft FloodSAFE Strategic Plan, June 2008</i></p>
floodplain management	<p>A decision-making process whose goal is to achieve appropriate use of the nation's floodplains. Appropriate use is any activity or set of activities that is compatible with the risk to natural resources and human resources. The operation of an overall program of corrective and preventive measures for reducing flood damage, including but not limited to watershed management, emergency preparedness plans, flood control works, and floodplain management regulations.</p> <p style="text-align: right;"><i>A Blueprint for Change, Sharing the Challenge: Floodplain Management Into the 21st Century, Report of the Interagency Floodplain Management Review Committee to the Administration Floodplain Management Task Force, Washington, D.C., June 1994</i></p>
floodway, State-designated	<p>The channel of a stream and that portion of the adjoining floodplain required to reasonably provide for construction of a project for passage of the design flood, including the lands necessary for construction of project levee that are regulated by the Central Valley Flood Protection Board.</p>

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freeboard	<p>A factor of safety usually expressed in feet above a flood level for purposes of floodplain management. "Freeboard" tends to compensate for the many unknown factors that could contribute to flood heights greater than the height calculated for a selected size flood and floodway conditions, such as wave action, bridge openings, and the hydrological effect of urbanization of the watershed.</p> <p><i>http://www.fema.gov/plan/prevent/floodplain/nfipkeywords/freeboard.shtml</i></p>
geomorphology, fluvial	<p>Geomorphology is the study of the characteristics, origins, and development of landforms. Fluvial geomorphology is the study of landforms and channel types created by flowing water and the transport of rocks and sediment by water flow.</p>
goals	<p>In the planning process for the CVFPP, goals describe "what" the CVFPP will accomplish. Goals are the broad and enduring values, and direction or desired conditions we want to achieve, without prescribing or suggesting specific actions to achieve them.</p> <p><i>Central Valley Flood Protection Plan Interim Progress Summary No. 1 April 2010</i></p>
headcut erosion	<p>A headcut is the sudden change in elevation or knickpoint at the leading edge of a gully.</p> <p><i>U.S. Department of Agriculture, Agricultural Research Service</i></p>
improvement/improvement project	<p>An act/action may be performed by the U.S. Army Corps of Engineers to State Plan of Flood Control facilities (federal only) in partnership with the Board to increase the authorized project performance beyond what has been authorized for the existing project. Improvement projects are cost shared in accordance with their authorization (e.g., American River Common Features Project).</p> <p><i>U.S. Army Corps of Engineers</i></p>
integrated flood management	<p>An approach to dealing with flood risk that recognizes the interconnection of flood management actions within broader water resources management and land use planning; the value of coordinating across geographic and agency boundaries; the need to evaluate opportunities and potential impacts from a system perspective; and the importance of environmental stewardship and sustainability.</p> <p><i>California Department of Water Resources, Draft FloodSAFE Strategic Plan, June 2008</i></p>
interest-based group	<p>A collection of individuals and/or organizations with common interests in the activities and actions anticipated by the CVFPP.</p>
local jurisdiction	<p>Means a city, city and county, or county.</p>
legacy community	<p>A rural community registered as a historic district by either a state or federal entity.</p>

Levee Flood Protection Zone	<p>An area that is protected, as determined by the Central Valley Flood Protection Board or the Department of Water Resources, by a levee that is part of the facilities of the State Plan of Flood Control, as defined under Section 5096.805 of the Public Resources Code.</p> <p style="text-align: right;"><i>California Government Code Section 65300.2(b)</i></p>
maintaining agency	<p>Maintaining agency means any city, county, district or other political subdivision of the State that is authorized to maintain levees. The California Department of Water Resources maintains levees pursuant to California Water Code Sections 8361 and 12878, but is not considered a maintaining agency.</p>
maintenance	<p>An act/action taken other than during high water that is necessary to insure the serviceability of SPFC facilities in times of floods. Maintenance of facilities is a non-federal responsibility. The facilities of the SPFC are maintained by either DWR or MAs, as described by laws and other various legally binding documents. The costs of maintenance are funded by the maintainers. (Example: vegetation removal).</p> <p style="text-align: right;"><i>U.S. Army Corps of Engineers</i></p>
moderate flood hazard area	<p>Flood hazard area, as identified on the Flood Insurance Rate Map (FIRM), labeled Zone B or Zone X (shaded), are the areas between the limits of the base flood and the 0.2% annual chance or a 500-year flood.</p> <p style="text-align: right;"><i>Federal Emergency Management Agency, http://www.fema.gov/, accessed June 2009</i></p>
modification/alteration	<p>An act/action that may be undertaken to change a facility to perform a new purpose(s), increase the authorized purpose(s) beyond that intended at the time of construction, increase the authorized project performance, or extend services to new beneficiaries. Modification/alteration by the maintainers of SPFC may proceed upon the Board issuance of an encroachment permit. (Example TRLIA) The Board, prior to issuing any permits, must secure a USACE permit under 33 U.S. C. 408. Congressionally authorized project modifications are performed by USACE in partnership with the Board or others. (Example: Yolo Basin Wetlands Project).</p> <p style="text-align: right;"><i>U.S. Army Corps of Engineers</i></p>
natural floodplain processes	<p>Processes in a floodplain existing in or produced by nature (rather than by the intent of human beings) (e.g., periodic flooding and accompanying deposition of sediment in a floodplain).</p>
natural processes	<p>Processes existing in or produced by nature (rather than by the intent of human beings) (e.g., dynamic hydrologic, geomorphic, and biological processes).</p>

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neotropical migratory bird	Migratory birds from the neotropic ecozone that includes the Mexican lowlands, Central and South America, Caribbean islands, and southern Florida.
nonproject levee	Any levee that is <u>not</u> part of the State Plan of Flood Control (CWC 9602(c)) or other State-federal or local-federal flood protection facilities. Nonproject levees are typically privately owned or under the authority of a local levee district. ¹
non-SPFC levee	Any levee that is <u>not</u> part of the State Plan of Flood Control (CWC 9602(c)). This includes State-federal levees outside the Sacramento and San Joaquin river watersheds and levees within the Sacramento and San Joaquin river watersheds that do not have documented State assurances of nonfederal cooperation to the federal government or State responsibility identified in CWC Section 8361.
nonstructural improvement	Projects that are intended to reduce or eliminate susceptibility to flooding by preserving or increasing the flood-carrying capacity of floodways, and include such measures as levees, setback levees, floodproofing structures, and zoning, designating or acquiring flood prone areas. <i>California Water Code Section 79068(a)</i>
nonurbanized area	A developed area or an area outside a developed area in which there are fewer than 10,000 residents. <i>California Government Code 65007(e)</i>
objective	Collectively, objectives are intended to define the overall accomplishments of the 2012 CVFPP. The objectives are not specific actions to achieve the goals, but rather quantitative overall measures of success of the plan. <i>CVFPP Interim Progress Summary No. 1 April 2010</i>
objective flow	Pertains to flows in specific reaches of a river based on local conditions, and are established through coordination with local entities. An objective flow is intended to reflect non-damaging conditions. These conditions may include levee stability and seepage, riparian growth, and adjacent land uses. <i>Post-Flood Assessment Sacramento and San Joaquin River Basins Comprehensive Study May 2004, U.S. Army Corps of Engineers</i>

objective release	<p>The maximum allowable, non-flood damaging outflow from a dam as specified in the facility’s Water Control Plan. Operators manage releases to maintain flood management space at the same time considering downstream conditions. These considerations may include levee seepage, erosion, and/or strength, and channel capacity. Additionally, the operators consider the impact of flow fluctuations on fish spawning habitat.</p> <p style="text-align: right;"><i>Post-Flood Assessment Sacramento and San Joaquin River Basins Comprehensive Study U.S. Army Corps of Engineers, May 2004</i></p>
operation	<p>An act/action taken during high water that is necessary to maintain functionality of State Plan of Flood Control facilities. Operation of facilities is a nonfederal responsibility. The facilities of the State Plan of Flood Control are operated by either the California Department of Water Resources or MAs, as described by laws and various legally binding documents. The costs of operation are funded by the operators (Example: Sandbagging).</p> <p style="text-align: right;"><i>U.S. Army Corps of Engineers</i></p>
operations and maintenance	<p>Refers to the effort that must be expended to keep project facilities in good working condition so they continue to operate as designed - wear and tear on facilities that are not adequately maintained can reduce their capacity or make them more vulnerable to failure - and the management of adjustable features to achieve the desired conditions (e.g., flow rate, stage, reservoir storage).</p>
penetration	<p>A man-made object that crosses through or under a levee or floodwall and has the potential to be a preferential seepage path or hydraulic connection with the waterside. Typically, a penetration is a pipe or transportation structure, such as a roadway or rail line.</p>
project levee	<p>Any levee that is a facility of the State Plan of Flood Control.¹</p> <p style="text-align: right;"><i>California Water Code 9602 (c)</i></p>
partner	<p>Individuals, organizations, and/or agencies with direct responsibilities for activities and actions anticipated by the CVFPP.</p>
planning principle	<p>While goals provide direction on “what” the CVFPP will accomplish, planning principles provide guidance on “how” the CVFPP will be developed and implemented, consistent with the FloodSAFE guiding principles.</p> <p style="text-align: right;">Central Valley Flood Protection Plan Interim Progress Summary No. 1 April 2010</p>

¹ Disclaimer: It is important for the reader to understand that a broader definition is often used to describe a project levee as any levee that has been implemented as part of a Federal project. For use with respect to the CVFPP, “project levee” is as defined in the Water Code.

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public agency	Any city, city and county, county, or district organized, existing, and acting pursuant to the laws of this state. <i>California Water Code Section 8402(d)</i>
public safety	Involves the prevention of and protection from events that could endanger the safety of the general public from significant danger, injury/harm, or damage, such as natural and man-made disasters.
public safety infrastructure	Means public safety infrastructure necessary to respond to a flood emergency, including, but not limited to, street and highway evacuation routes, medical care facilities, and public utilities necessary for public health and safety, including drinking water and wastewater treatment facilities. <i>California Water Code Section 12646 (d)</i>
reconstruction/ reconstruction project	An act/action may be performed by the USACE to SPFC facilities(federal only) in partnership with the Board to address impediments that prevent a project from performing as authorized if the impediments are not the result of inadequate maintenance. The causes of impediments are either design and/or construction deficiencies or long-term degradation of facilities that have exceeded their expected service lives. (Example: Sacramento Area Levee Reconstruction Project) <i>U.S. Army Corps of Engineers</i>
rehabilitation	To restore a facility or system (either natural or man-made) to its former condition.
rehabilitation (PL84-99)	An act/action undertaken by USACE to SPFC facilities to restore flood damaged flood control works to their pre-disaster condition at 100% federal costs, except for lands, easements, right of way, and relocations. (Example: Linda levee break restoration) Rehabilitation of non-federal facilities is restored at 80% of federal costs. (Example Delta Levee restoration) <i>U.S. Army Corps of Engineers</i>
repair	A corrective act/action that is necessary to perform on damaged SPFC facilities to restore them to operable condition. Repair of facilities is the non-federal responsibility. The facilities of the SPFC are repaired by either DWR or LMAs, as described by laws and various legally binding documents. The costs of repairs are funded by the maintainers of the facility. (Example: reshaping levee crown to eliminate ruts.) <i>U.S. Army Corps of Engineers</i>

residual risk	<p>Residual risk is the portion of flood risk that remains after a flood control structure or works has been built. Risk remains because the likelihood that the completed works' design could be surpassed by a intensity of a flood event, resulting in structural failure.</p> <p style="text-align: right;"><i>Adapted from: Flood Risk Management: Federal Role in Infrastructure Congressional Research Service, The Library of Congress October. 26, 2005</i></p>
restrictive zone	<p>Means the portion of the natural floodway between the limits of the designated floodway and the limits of the flood plain where inundation may occur but where depths and velocities are generally low.</p> <p style="text-align: right;"><i>California Water Code Section 8402(g)</i></p>
restore/ restoration	<p>The implementation of an action(s) to reestablish, or put back something that once existed but is no longer there, to its original condition.</p>
ring levees	<p>Levees that completely encircle or "ring" an area subject to inundation from all directions.</p> <p style="text-align: right;"><i>U.S. Army Corps of Engineers Design and Construction of Levees, EM 1110-2-1913</i></p>
riparian area	<p>Riparian areas are transitional between terrestrial and aquatic ecosystems and are distinguished by gradients in biophysical conditions, ecological processes, and biota. They are areas through which surface and subsurface hydrology connect water bodies with their adjacent uplands. Riparian areas include portions of terrestrial ecosystems that significantly influence exchanges of energy and matter with aquatic ecosystems (i.e., a zone of influence). Riparian areas are adjacent to perennial, intermittent, and ephemeral streams, lakes, and estuarine-marine shorelines.</p>
river basin	<p>The entire geographical area drained by a river and its tributaries; an area characterized by all runoff being conveyed to the same outlet.</p> <p style="text-align: right;"><i>www.thefreedictionary.com</i></p>
rural community	<p>A city, town, or settlement outside of urban and urbanizing areas with an expected population of less than 10,000 within the next 10 years.</p>

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Sacramento-San Joaquin Drainage (SSJD) District

Comprises more than 1.9 million acres in the Central Valley generally along and adjacent to the Sacramento and San Joaquin rivers. SSJD District was created in 1913 by the California Legislature to allow survey work and the collection of data of the San Joaquin and Sacramento rivers and tributaries to prepare a report to the Central Valley Flood Protection Board to further the Board's plans for controlling the floodwaters of the rivers, improve and preserve navigation, and the reclamation and protection of the lands that are susceptible to overflow from those rivers and their tributaries. The District's management and control is vested in the Central Valley Flood Protection Board, and according to the Statute, the District can "acquire, own, hold, use, and enjoy any and all properties necessary for the purposes of the District."

Central Valley Flood Protection Board, <http://www.cvfpb.ca.gov/>, accessed June 2009

Sacramento-San Joaquin River Flood Management System

The Sacramento-San Joaquin River Flood Management System comprises all of the following: (a) The facilities of the State Plan of Flood Control as that plan may be amended by the Central Valley Flood Protection Board; (b) Any existing dam, levee, or other flood management facility that is not part of the State Plan of Flood Control if the board determines, upon recommendation of the department, that the facility does one or more of the following: (1) Provides significant systemwide benefits for managing flood risks within the Sacramento-San Joaquin Valley. (2) Includes project levees that protect a contiguous urban area of 10,000 or more residents within the Sacramento-San Joaquin Valley.

California Water Code Sections 9602 and 9611

Sacramento-San Joaquin Valley

Lands in the bed or along or near the banks of the Sacramento River or San Joaquin River, or their tributaries or connected therewith, or upon any land adjacent thereto, or within the overflow basins thereof, or upon land susceptible to overflow there from. The Sacramento-San Joaquin Valley does not include lands lying within the Tulare Lake basin, including the Kings River.

California Government Code Section 65007(g)

Safe Harbor Agreement An agreement between a landowner and a regulatory agency that provides that if the landowner voluntarily enhances and maintains habitat for listed species on their property, the regulatory agency will not impose additional restrictions. The Safe Harbor Agreement provides assurances that the regulatory agency will not impose additional restrictions because of their voluntary conservation actions. The regulatory agency authorizes incidental-take coverage for routine and ongoing activities on the property. This assures the landowner that they will be able to continue their routine and ongoing activities, despite the presence of listed species. In addition, the regulatory agency authorizes the landowner to return the property to pre-agreement conditions (baseline conditions). In other words, a landowner can create habitat for a listed species, and then remove the created habitat at the end of the Agreement if they choose to do so. Safe Harbor Agreements cannot authorize incidental take for a landowner to go below baseline conditions.

*Adapted from:
U.S. Fish and Wildlife Service, Sacramento Office
http://www.fws.gov/sacramento/partnerships/safe_harbor.htm*

small community Developed area with a population of less than 10,000.

shaded riverine aquatic cover A nearshore aquatic area occurring at the interface between a river (or stream) and adjacent woody riparian habitat.

Special Flood Hazard Area Flood hazard area identified on the Flood Insurance Rate Map (FIRM) defined as the area that will be inundated by the flood event having a 1% chance of being equaled or exceeded in any given year. The 1% annual chance flood is also referred to as the base flood or 100-year flood. SFHAs are labeled as Zone A, Zone AO, Zone AH, Zones A1-A30, Zone AE, Zone A99, Zone AR, Zone AR/AE, Zone AR/AO, Zone AR/A1-A30, Zone AR/A, Zone V, Zone VE, and Zones V1-V30.

*Federal Emergency Management Agency
<http://www.fema.gov/>, accessed June 2009*

State Plan of Flood Control Means the state and federal flood control works, lands, programs, plans, policies, conditions, and mode of maintenance and operations of the Sacramento River Flood Control Project Described in Section 8350 of the California Water Code (CWC), and of flood control projects in the Sacramento River and San Joaquin River watersheds authorized pursuant to Article 2 (commencing with Section 12648) of Chapter 2 of Part 6 of Division 6 for which the Board or the Department has provided the assurances of nonfederal cooperation to the United States, and those facilities identified in CWC Section 8361.

California Water Code Section 9110 (f)

**2012 Central Valley Flood Protection Plan
Attachment 4: Glossary**

State Plan of Flood Control Descriptive Document	The State Plan of Flood Control Descriptive Document is an inventory and description of the flood control projects and works (facilities), lands, programs, plans, conditions, and modes of operations and maintenance for the State-federal flood protection system in the Sacramento River and San Joaquin River watersheds and facilities identified in WC Section 8361. The document fulfills part of the legislative requirement expressed in CWC Section 9120 (a) and (b).
State Plan of Flood Control Planning Area	The State Plan of Flood Control (SPFC) Planning Area is the geographic area that includes the lands currently receiving flood damage reduction benefits from the SPFC. The SPFC Planning Area is completely contained within the Systemwide Planning Area.
structural improvements	Are projects that are intended to modify flood patterns and rely primarily on constructed components and include such measures as levees, floodwalls, and improved channels. <i>California Water Code Section 79068(b)</i>
sustainability	A project is “sustainable” when it is socially, environmentally, and financially feasible for an enduring period.
system	Refers to the Sacramento-San Joaquin River Flood Management System, as described in Section 9611 of the California Water Code.
systemwide	Referring to the scale of an entire system (e.g., the flood management system within Sacramento-San Joaquin River Flood Management System).
Systemwide Planning Area	The Systemwide Planning Area is the geographic area that encompasses lands receiving flood damage reduction benefits from the existing facilities and operation of the Sacramento-San Joaquin River Flood Management System.
transitory storage	The temporary and periodic storage of peak floodflows from adjacent rivers or waterways through the modification of certain floodplain areas acquired through easement or fee title.
Tulare Lake Basin	Refers to the Tulare Lake Hydrologic Region as defined in the California Water Plan Update 2009, prepared by the Department of Water Resources pursuant to Chapter 1 (commencing with Section 10004) of Part 1.5 of Division 6 of the Water Code. <i>California Government Code Section 65007(i)</i>

upgrade of a project levee	<p>Installing a levee underseepage control system, increasing the height or bulk of a levee, installing a slurry wall or sheet pile into the levee, rebuilding a levee because of internal geotechnical flaws, or adding a stability berm. Notwithstanding the above definition, an upgrade of a project levee does not include any action undertaken on an emergency basis.</p> <p><i>California Water Code Section 9651(h)</i></p>
urban area ²	<p>A developed area in which there are 10,000 residents or more.</p> <p><i>California Government Code Section 65007 (j)</i></p>
urbanizing area	<p>A developed area or an area outside a developed area that is planned or anticipated to have 10,000 residents or more within the next 10 years.</p> <p><i>California Government Code Section 65007 (k)</i></p>
urban levee design criteria	<p>Urban Levee Design Criteria (ULDC) means the levee and floodwall design criteria developed by the California Department of Water Resources for providing the urban level of flood protection.</p> <p><i>California Government Code Section 65007(k) and Water Code Section 9602(i)</i></p>
urban level of flood protection	<p>Level of protection that is necessary to withstand flooding that has a 1-in-200 chance of occurring in any given year using criteria consistent with, or developed by, the Department of Water Resources.</p> <p><i>California Government Code Section 65007(l) and Water Code Section 9602(i)</i></p>
watershed	<p>The land area from which water drains into a stream, river, or reservoir.</p> <p><i>California Water Plan Update 2009 Glossary</i></p>

² “Urban Area” is also defined in the California Public Resources Code Section 5096.805 (k) as “any contiguous area in which more than 10,000 residents are protected by project levees.” For use with respect to the Central Valley Flood Protection Plan, “project levee” is as defined in California Water Code Section 9602(c).

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