FINAL

PHASE 2 DWR FLOOD PERFORMANCE TRACKING SYSTEM

User Guide

Prepared for California Department of Water Resources December 30, 2021



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User Guide

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TABLE OF CONTENTS

Phase 1 DWR Flood Performance Tracking System User Guide

	Page
Preface	1
Organization of the user guide	
Boforo using the Tracking System	2
Introduction and system description	∠
What will the tracking system do and how will it operate?	2 2
User interface	Z
Developing the data for your project	5 /
Note about "negative" changes to CSMOs	 6
Using the tracking system	7
Overview	7
New user registration and sign in	8
	8
Sign in	8
Reset password neip	8
	9
Data entry form	10
Project entry formation	10
Project information	1 1
Dasic Information	14
Project Status page	15
Project details	10
Project details	10
Levee conditions	20
Channel conditions	21
Hydraulic structures	
Ecosystem	24
Submit vour project	25
Query and search for information	25
Search for a project by a range of parameters	26
Advanced search	26
View search results on a map and list	27
View project details	28
Project Detail page	29
Mapping functions	30
Produce a report	31
Status, progress, and targets reports	32
Funding and financial reports	37
Frequently Asked Questions	41

List of Figures	<u>Page</u>
Figure 1. Tracking system landing page	7
Figure 2. Sign-in pop-up	8
Figure 3. Reset password link	9
Figure 4. Tracking system administrator will assign authentication	10
Figure 5. Create a new project	11
Figure 6. Select project type using the descriptions in the table	12
Figure 7. Select organization name and enter contact information	14
Figure 8. Select whether the project is part of a larger program or effort	15
Figure 9. Select funding source and enter amount of money from each source	17
Figure 10. Project details information requirement	18
Figure 11. Select programmatic permits, encroachment number, and specify	
mitigation credits	19
Figure 12. Upload shapefile for each levee deficiency that is addressed with your	
project	21
Figure 13. Select channel deficiency and upload channel shapefile	22
Figure 14. Hydraulic structures information page	23
Figure 15. Enter appropriate information for changes to the ecosystem measurable	
objectives	24
Figure 16. If project entry is incomplete, a list of missing information will pop up after	
clicking "Submit"	25
Figure 17. Basic options to search by a range of parameters	26
Figure 18. Advanced search options provide additional parameters for search	
Figure 19. View search results on map	
Figure 20. View search results in list	28
Figure 21. Expand project to view project details	
Figure 22. View project detail page	30
rigure 25. Layers box enables you to scroll and select which methos you would like	24
Figure 24. Departing landing page allows users to select from different report types	ວາ ຂາ
Figure 24. Reporting landing page allows users to select from different report types	32 22
Figure 26. Lice the drep down monu to select the appropriate reporting perometers	33 22
Figure 20. Use the drop-down menu to select the appropriate reporting parameters	33
motrics on the man	34
Figure 28 View progress over time by Conservation Planning Area and the projects	
included in the report	35
Figure 20 Export results using camera icon	35 36
Figure 30 Levee metrics on Status Progress and Targets Reporting page	30 36
Figure 31 Levees report	30
Figure 32 Reporting page – Funding and Financial page selection	38
Figure 33. Users can see the amount of money spent on projects based on project	
type project status, the region, and the funding source	30
Figure 34 A nie chart displays the proportion of funding spent by each source	30 30
Figure 35. A list at the bottom of the page displays all of the projects that are factored	
into the results	40

List of Tables

Table 1	Baseline Metrics and Attributes
---------	---------------------------------

<u>Page</u>

Table 2	Descriptions of Various Project Types and Management Actions	. 12
Table 3	Metrics Affected by Various Project Types and Management actions	. 13

PREFACE

The California Department of Water Resources (DWR) Division of Flood Management (DFM) and Division of Multi-Benefit Initiatives are developing an information tracking and data management system to support tracking the status and performance of the flood system via implementation of the Central Valley Flood Protection Plan (CVFPP), including the CVFPP's Conservation Strategy (Conservation Strategy) and the Flood System Status Report (FSSR). The DWR DFM Tracking System (tracking system) includes a data management tool (database) and an accompanying software application (user interface) and will focus on the CVFPP Systemwide Planning Area as its geographical extent.

Organization of the user guide

This User Guide is complemented by the *DWR Division of Flood Management Tracking System Summary Document* (April 2019). It provides the background and instructional information to support the primary users of the tracking system: DWR staff.

The first part of this guide provides an initial system description along with some background on the development of the system, including steps needed prior to users using the tracking system. For example, for data to be entered into the system, it must first be developed in a format in which the system can process the data as intended.

The remaining sections of the user guide include step-by-step instructions for how to use the tracking system, and, finally, a section on managing, updating, and maintaining the tracking system. A complete background on the development of the DWR DFM tracking system can be found in the Workplan (February 2018).

BEFORE USING THE TRACKING SYSTEM

Introduction and system description

The California Department of Water Resources (DWR) Division of Flood Management (DFM) and Division of Multi-Benefit Initiatives Flood Performance Tracking System (tracking system) supports DWR in documenting, tracking, and reporting progress on major components of the Central Valley Flood Protection Plan (CVFPP). For Phase 1 of this project, the system is designed to address performance tracking of the CVFPP outcomes, including: (1) the status and performance of flood system facilities;*¹ and (2) progress toward meeting the Conservation Strategy measurable objectives (the current means of tracking ecosystem vitality).* All management actions and flood projects occurring within the Systemwide Planning Area (SPA) that affect flood facilities (or the ecosystem, as related to Conservation Strategy measurable objectives) will be included in the tracking system and their influence on CVFPP outcomes assessable via queries and reporting.

What will the tracking system do and how will it operate?

The tracking system will track DWR's progress over time toward key goals and objectives established in the CVFPP. Specifically, the tracking system will collect information about flood management, habitat restoration, and multi-benefit projects, and will track how those projects improve both flood control infrastructure (as identified in the FSSR) and the ecosystem. Users will be able to look at the Central Valley Flood "System" at any point in time and observe how it changes over time.

Condition and performance of flood facilities (Flood System Status Report)

The application will track all facilities information that was previously included in the 2011 FSSR and 2017 FSSR updates, including an overview of flood risk and conditions data for levees (such as the status of levee geometry, seepage, structural instability, erosion, settlement, penetrations, levee vegetation, rodent damage, and encroachments), channels (such as the status of channel conveyance capacity, channel vegetation, channel sedimentation), and flood control structures (such as the status of hydraulic structures, pumping plants, and bridges).

2

 $^{^{1}}$ An * indicates that this component is included as a module in this initial version of the system.

Conservation strategy measurable objectives

The application will: (1) document the contribution of flood projects and other actions toward the Conservation Strategy measurable objectives (CSMOs) over time; and, (2) monitor the near- and long-term ecosystem changes in the SPA (irrespective of flood projects) over time.

What will the system track?

Projects and management actions should be captured in the tracking system if they meet all of the following criteria:

- Occur in the SPA
- Have the ability to meaningfully contribute to the FSSR or CSMOs
- Have a project footprint of at least 0.5 acres in size each
- Are funded in part or in whole by the DWR Division of Flood Management and/or the Division of Multi-Benefit Initiatives.

The following project types and management actions will be captured:

- Flood-management improvements
- Multi-benefit projects
- Habitat restoration actions
- Mitigation-only projects²
- Levee restoration and rehabilitation

The following activities will <u>not</u> be captured in this version of the Tracking System³:

- Annual operations and maintenance outside of those reported in DWR annual inspections ratings are tracked through the DWR Flood Maintenance Office (FMO). The annual inspections ratings are captured in the FSSR updates.
- Levee repairs (e.g., the 2017 Storm Damage DWR Emergency Repairs). These are tracked separately by DWR FMO.
- Mitigation and monitoring reporting plan (MMRP) projects. As mentioned in the TO 33 Workplan (deliverable #2, February 2018, section 2.2.1) MMRP activities can be captured in a separate effort.

User interface

Tracking system users will access the application online and upload information through the DWR website at:

² Mitigation-only refers to projects that mitigate impacts on the landscape and contribute to the recovery of species and natural communities. This project type does not include MMRP projects, or mitigation banking projects.

³ Though these activities are not captured in Phase 1 of the tracking system, they may be considered for future updates as resources allow.

https://Flood-Performance-Tracking.water.ca.gov. Site and data administrators will also access the application through a modern web browser (i.e. Google Chrome, Microsoft Edge). At this phase, the application resides behind the DWR firewall so only DWR staff and credentialed contributors will have access to this application. DWR can choose to make this application publically accessible in a subsequent phase if there is interest in doing so.

Developing the data for your project

This system relies on spatial information to track the CSMOs and condition of the state's flood facilities. Prior to entering project data, you must develop this project information in a shapefile format that can be used with geographical information system (GIS) software.

Creating the necessary shapefiles for your project will likely require the use of GIS software such as ESRI ArcGIS. You will need a polygon shapefile that represents the overall project footprint and additional shapefiles that represent *only the <u>change</u>* in each metric from the baseline conditions. For example, if your project includes existing riparian habitat and will be creating new, additional riparian habitat, only the area added by your project should be included in the shapefile for upload. This requires having the baseline conditions data for creating *only what will be a change* from baseline conditions. For reduction in an existing metric, such as riparian habitat removal, these should be mapped with a negative value.

A template for the necessary shapefiles is available to download from the DWR DFM Tracking System the Resources Page. You may then create your project shapefiles within this template and compress them into a .zip file for uploading in the data entry process. Your shapefiles must use this template (which contains a specific geometry type, naming convention, and symbology) in order for the system to track them. You will create a separate shapefile for every metric that changes. Table 1 lists the baseline metrics layers and their attributes. The structure for each layer you create must match that in the baseline metrics in order for the system to accept the shapefiles you upload.

Metric	GIS Layer	Field Name*	Secondary Field Name	Туре	Units Field
Ecosystem					
Floodplain inundation	Ecosystem_ Floodway_Major_River_Reach	Floodway		polygon	Acres
Floodplain inundation	Ecosystem_ Floodway_Bypass_Transient_Stora ge	Floodway		polygon	Acres
Natural bank	Ecosystem_NaturalBank	BANK_TYPE		linear	Miles
River meander potential	Ecosystem_RiverMeander	Meander		polygon	Acres
SRA Cover	Ecosystem_SRA	SRA		linear	Miles
SRA Cover - Natural bank	Ecosystem_SRA	SRA_Nat			
Habitat - Riparian	Ecosystem_Habitat_Riparian	Riparian		polygon	Acres

TABLE 1 BASELINE METRICS AND ATTRIBUTES

Metric	GIS Laver	Field Name*	Secondary	Type	Units
			Field Name	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Field
Habitat - Marsh and wetlands	Ecosystem_Habitat_Wetlands	Wetlands		polygon	Acres
Stressors - Revetment	Ecosystem_Revetment	BANK_TYPE		linear	Miles
Stressors - Levees	Ecosystem_Stressors_LeveeLength	DWR_Desig		linear	Miles
Stressors - Fish passage barriers	Ecosystem_FishPassageBarriers	WebLegend		point	N/A
Stressors - Invasive plants	Ecosystem_Stressors_Invasives	Inv_List		polygon	Acres
Flood System Status					
Levees					
Overall Hazard Classification	FSS_Levees_OverallHazard	OverallRes	Program	linear	Miles
Geometry	FSS_Levees_Geometry	Geometry	Program	linear	Miles
Underseepage	FSS_Levees_Underseepage	Underseepa	Program	linear	Miles
Through Seepage	FSS_Levees_ThroughSeepage	ThroughSee	Program	linear	Miles
Structural instability	FSS_Levees_StructuralInstability	LandsideSl	Program	linear	Miles
Erosion	FSS_Levees_Erosion	Erosion	Program	linear	Miles
Settlement	FSS_Levees_Settlement	Rating		point	N/A
Penetrations	FSS_Levees_Penetration	N/A		point	N/A
Levee vegetation	FSS_Levees_LeveeVegetation	Rating		point	N/A
Burrowing animals	FSS_Levees_BurrowingAnimals	Persist	Program	linear	Miles
Encroachments	FSS_Levees_Erosion	Rating		point	N/A
Channels					
Conveyance capacity (rating)	FSS_Channels_ ConveyanceCapacity	Chan_Statu		polygon	Acres
Channel vegetation	FSS_Channels_ChannelVegetation	Rating		point	N/A
Channel sedimentation	FSS_Channels_ChannelSediment	Rating		point	N/A
Structures					
Hydraulic - Structural inspection rating	FSS_Hydraulic_StructuralInspection	RatingSI		point	N/A
Hydraulic - Vegetation and obstruction rating	FSS_Hydraulic_ VegetationObstruction	RatingVO		point	N/A
Hydraulic - encroachment inspection rating	FSS_Hydraulic_Encroachment	RatingEl		point	N/A
Pumping plant inspection rating	FSS_PumpingPlants_ InspectionRating	RatingPP		point	N/A
Bridge condition	FSS_Bridges_Conditions	RatingBR		point	N/A
NOTE:					

TABLE 1 BASELINE METRICS AND ATTRIBUTES

*Where Field Name = N/A, the layer itself serves as the metric.

Note about "negative" changes to CSMOs

New projects (e.g., levee improvement projects) are likely to have some negative impacts on the CSMOs. For example, improving or expanding the geometry of a levee may reduce floodplain or riparian habitat. These types of changes will be captured first in the development of GIS layers for a project. After a user submits their project shapefiles, the Data Stewardship Team will compare the project shapefiles to the baseline data to see where an increased levee footprint (or other action) affects the CSMOs. The Data Stewardship Team would then modify the base dataset accordingly. In an effort to capture progress toward the CSMO targets, negative values for a particular metric will not be counted in the accounting of the tracking system at this point.

USING THE TRACKING SYSTEM

Overview

Users will navigate to the application through the DWR landing page (Figure 1).



Figure 1. Tracking system landing page

At the landing page, users can initially choose from the following options, each of which are described in more detail in the following sections. Once a user is signed in with the appropriate authentication, they will see an additional option for "Enter Data."

- About
- Sign in
- Search
- Reporting
- Resources

New user registration and sign in

New user registration

If you are a new user, you must send an email to the tracking system administrator and request a user name with a password. Click the Contact button to request.

Sign in

On the Secure Sign-In page (Figure 2), users must enter the email and password assigned to them during registration. Click "Sign In."

Secure Sign-In		×
* Email		
eg. john@doe.com		
* Password		
* Required Fields Reset Password	A Sign In	Cancel

Figure 2. Sign-in pop-up

Reset password help

If you would like to change your password or reset it because you have forgotten it, click on the "Reset Password" link (see Figure 3). This will take you to the password reset page, where you must enter your email and your first and last name. Click "Submit." You should then receive an email explaining how to reset your password.

Secure Sign-In	×
* Email	
eg. john@doe.com	
* Password	
* Required Fields Reset Password	Sign In Cancel

Figure 3. Reset password link

Authentication

All users who visit the tracking system will be able to view information, search, and query projects. Special authentication (Figure 4) is required for users who will perform the following activities:

- Enter project information
- Review project information (e.g., QA/QC, as data steward)
- Produce a report
- Download data, and upload or modify system-wide data
- Grant permission and access to additional users

INFORMAD DEPARTMENT OF Search Enter Data QAQC Reporting Admin Tools Image: Create User User Profile * First Name Middle Name * Last Name John Middle Name * Imail johnsmith@water.ca.gov * User Roles @QCC Editor X OACC Editor X OACC Editor X Vewer 1415 9th Street Sacramento CA 95814	🗘 Setti
s Create User JSer Profile *Req *First Name John *Last Name John *Last Name Smith *Email johnsmith@water.ca.gov *User Roles *User Roles *User Roles *User	Sign Out
• First Name * Last Name John Middle Name John Middle Name * Email Smith i pinnsmith@water.ca.gov - * User Roles - @AQC Editor X -	
• First Name Middle Name • Last Name John Middle Name Smith • Email	uired Field
John Middle Name Smith * Email johnsmith@water.ca.gov * User Roles @AQC Editor × @AQC Editor × @AQC Editor × @AQC Editor × @AQC Editor × Idfor Administrator Editor Viewer 1416 9th Street Sacramento CA 95814 Phone Agency DWR	
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Figure 4. Tracking system administrator will assign authentication

Data entry

Two primary types of data are needed to support the tracking system, as described in the companion Summary Report (April 2019). The first is the system-wide existing conditions information (geospatial), and the second is information about projects (geospatial, qualitative, and other) that the tracking system will track.

The system-wide data include all information available in the SPA, such as the inspection status or existing conditions of all levees, channels, and hydraulic structures for the FSSR and the presence of the CSMOs in the ecosystem, such as the amount of habitat, natural bank, floodplain area, etc. Only the DWR data steward/site administrator are permitted to upload or update baseline/existing conditions data.

As of the time of this printing, time step 0 - existing conditions data, have already been loaded into the tracking system by the system administrator and details on how to update it are provided in the section "Managing the tracking system." Information on the source and date of the base data is provided later.

Project entry form

To enter project data, visit the landing page, click on "Enter Data" and then "Create new project." If you are not yet signed in, the system will require you to sign in first.

Project information

Project data includes all types of information related to a particular project: physical attributes, geospatial attributes, and qualitative information. The appropriate project information required to complete a project entry form is described below.

Select project category and project type and enter project name

When users create a new project, they must select a project type from a drop-down menu (see Figure 5). Users can choose from multi-benefit and single-purpose projects.

0‰ n f y 8+ ⊠					Contact Fe	edback 🗘 Settings
CALIFORNIA DEPARTMENT OF WATER RESOURCES	J About	Search	Enter Data	QAQC	Reporting	Sign Out
Home 🕴 Enter Data						
Create new project Enter a new project into the Flood Management Tracking add project details and data over multiple visits. When fir been QA/QC reviewed and approved will be visible in a se * Project Type	System. It is advised t ilshed entering project arch or query, or on a	o have all project in t details, click subm map.	formation available ahe it and your project will b	ad of time, but is de e queued for QA/QC	signed so users may sa review. Note: Only pr	ave progress and ojects that have
Select an option		v				
* Project Name						
Enter Project Name						
Create						
Back to Top Conditions of Use Privacy Policy	Accessibility Cont	act Us				•• P 🎽 🖪
Copyright © 2019 State of California						

Figure 5. Create a new project

Users must select the project *type* from a drop-down list (see Figure 6). For guidance in selecting the appropriate project type to match your project, Table 2, below, provides the options on the left, and a description or example of those project types on the right. In the application, users may hover the pointer over each project type to see the same description provided below. Because it is only possible to select one type from the drop-down menu, if your project does not easily fit into one of the categories and descriptions provided, or if your project contains multiple project types on the drop-down, then select "Other Project Type."

	Select an option		
		۹	Project elements include: improve levee, improve protection,
	Select an option		seepage berm, cutoff wall, slurry wall, raise levee, increase freeboard, enhance low spots, widen levee or levee crown.
	Levee Improvement/Construction Im		flatten levee slope, improve levee to Urban Level of
	Channel Improvement		Protection, improve slope stability, address PL 84-99
	Hydraulic Improvement/Construction		encroachments
	Bank Stabilization or Protection		
	Levee Setback or Bypass		
ack t	Floodplain Reconnection		
opyri	Habitat Restoration		
- pj.,	Other Project Type		
	Please select "Other Project Type" if the project has more than one category.		

Figure 6. Select project type using the descriptions in the table

To reduce the number of data inputs for the user, this application was developed so that the project type you select will determine which (and how many) remaining questions you must answer; if some information is not relevant to a given project type, those questions will not appear. Selecting "Other Project Type" allows you the ability to enter information in all project categories.

Project Type	Description
Levee improvement/ construction	Project elements include: improve levee, improve protection, seepage berm, cutoff wall, slurry wall, raise levee, increase freeboard, enhance low spots, widen levee or levee crown, flatten levee slope, improve levee to Urban Level of Protection, improve slope stability, address PL 84-99 deficiencies, address levee penetrations, address encroachments
Channel improvement	Project elements include: remove vegetation, remove sediment, dredge, restore capacity, widen channel
Hydraulic improvement/ construction	Project elements include: new pump, new intake, new bridge, new weir, upgrade pump station, backup fuel at pump stations, repair motor at pump station, raise bridge, replace bridge, new decking at bridge, repair canal, widen weir, inflow/outflow channel; raise structures, construct upstream reservoir, replace outfall gates, replace motor controls,
Bank stabilization or protection	Project elements include: erosion protection, add revetment, add riprap, add rock slope protection, build berm, flatten levee slope, levee reconstruction, settling basin enlargement
Levee setback or bypass	Project elements include: levee setback, levee shortening, new weir, widen bypass
Floodplain reconnection	Project elements include: excavate floodplain, lower floodplain, breach levee, notch weir, lower weir, transient/transitory floodwater storage
Habitat restoration	Project elements include: invasive species removal, plant riparian vegetation, shoreline plantings, plant vegetation on levee slopes, riparian restoration, wetland restoration, remove revetment, SRA, plantings in setback area
Other project type	Project elements include: remove fish barrier, increase reservoir height/capacity, all other project types and elements not previously mentioned

 TABLE 2

 DESCRIPTIONS OF VARIOUS PROJECT TYPES AND MANAGEMENT ACTIONS

Table 3 identifies which metrics are likely to be affected by each project type. This table was used to determine which additional questions would be asked based on the project type selected.

	Flood Co	ontrol Syste	m Effects	Ecosystem Effects											
Project Type	Levee conditions	Channel conditions	Hydraulic structure conditions	Floodplain inundation	Natural bank	River meander potential	SRA cover- riparian- lined bank	SRA cover natural bank	Habitat riparian	Habitat marsh/ wetlands	Stressors revetment	Stressors levees	Stressors fish barriers	Stressors invasive plants	Targeted Species
Levee improvement/ construction	х			x	х	x	x	х	х	х		x			
Channel improvement		х		x	х	х	х	х	х	х	х			х	
Hydraulic improvement/ construction			x	x	x				x	х	х		x		
Bank stabilization or protection	x	x			x	x	x	х	х	х	х				
Levee setback or bypass	х	х		x	х	x	x	х	х	х	х	x			
Floodplain reconnection				x	x	x	x	х	х	х	х	x	x		
Habitat Restoration	х	х			х	х	х	х	х	х	х			х	
Other project type	x	x	x	x	х	х	x	х	х	х	x	х	х	х	x

 TABLE 3

 METRICS AFFECTED BY VARIOUS PROJECT TYPES AND MANAGEMENT ACTIONS

-

Basic information

Enter organization name

First select your organization from the drop-down menu (see Figure 7). If you don't see your organization listed, then select "Other" and enter the name of your organization.

Enter your name and contact information

Enter your name, address, and contact phone number (Figure 7).

0‰ n f y 8∗ ⊠					About	Contact	Feedback	🗘 Settin
	Search	Enter Data	QAQC	Мар	1	Reporting	S	ign Out
Basic >	Basio	c Informatio	ı				* Required F	eld
	* Organi	zation						
Project Status	Select	an option						•
	1							٩
Project Details	Select a Alamed	an option la County Resource Co la County Water Distric	nservation District					*
Project Permits and Mitigation	Alpaug Alpine,	h Community Services County of	District					
	Amado	r Tuolumne Communit	y Action Agency					
	Americ	an Rivers	ic. 🔚					
Ecosystem	Anders	on-Cottonwood Irrigati	on District					
	Angiola	Water District						•
	* Project	t Contact Address						
Submit	Street	Address						
	City		State					
	Zip							
	Phone							

Figure 7. Select organization name and enter contact information

Enter project purpose

Add a sentence that describes the primary purpose of this project. Consider purposes such as, but not limited to:

- Flood control
- Habitat restoration
- Recreational improvements
- Mitigation

Enter project summary

Use up to four sentences to describe the various components of your project. For example, include items such as the number, length, and type of levee improvements; the amount of habitats or natural banks that are being improved; the name of the weir or pump station that is being

improved; or what kind of fish passage barrier that is being removed. No need to make it complicated—a stranger should be able to read this project description and understand the key components of the project.

Is the project part of a larger program?

Your project may be part of a larger effort, such as Early Implementation Projects or the American River Common Features program. If your project is part of a larger program, select "Yes" and then select the appropriate program from the dropdown menu. Figure 8 shows the list of options, and this list will expand over time.

* Is this project part of a larger program?	
🖲 Yes 🔘 No	
f If yes, what larger program?	
Select an option	
1	م
Select an option	
EIP	
UFRR	
American River Common Features	
Lower Feather River CMP	
Other	
Central Valley Tributaries Program	
Delta Levees Maintenance Subventions Program	
Delta Levees Special Flood Control Projects	
Flood Control Subventions Program	

Figure 8. Select whether the project is part of a larger program or effort

Upload photo

If available, upload a photo (jpeg, .gif, or .png) of the project or site improvement. This is not a mandatory field and is intended to provide future tracking system users with a visual idea of the project work that was completed.

Save progress and next page

Be sure to save your progress frequently so you can return to your project if interrupted. When you have entered all of the project information you wish to enter, press "Next Page."

Project status page

On this page, you will indicate project status, schedule, and federal assurances information.

Project status

Select from the drop-down whether your project is in the preliminary (1) Planning phase, has been (2) Permitted but construction hasn't begun yet, is (3) In Construction, or is (4) Complete. Projects should be entered into the tracking system even if the footprint and project design are not finalized. Project designs and footprint (including shapefiles) can be modified at a future date.

Assurances

Enter "yes" or "no" as appropriate for whether your assurance for nonfederal cooperation have been acquired, and if the letter of assurances has been sent/received.

Completion date and project schedule

Select from the drop-down calendar the date of project completion, or, if not complete, the date you anticipate the project will be complete. Then upload the relevant project schedule if desired.

Project funding

On the Funding Source(s) page (see Figure 9), you will enter information about project costs, budget, and all funding sources used to pay for your project.

Estimated Project Cost Total and Budget

In the first box, enter the estimated project cost total. Then upload a file that contains the project budget.

Funding source(s)

Often projects are funded from multiple sources, including state money, local contributions, and federal or grant programs. Review the list of possible project funding sources. Check each box from which you have received monies for this project. After you check a box, indicate the dollar amount of funding that came from that source.

Add		Search:	
Funding Source	Other Source 🕕	Value	1\$ J\$
FEMA Grant		\$100000.00	🗙 Remove
Proposition 1 Proposition 84 DWR Special Projects	🖍 Local fundraising	\$0	🗱 Remove
USACE FEMA Grant		\$50000.00	🗙 Remove
Local Contribution Other Proposition 1E Proposition 68		Pr	revious 1 Next
WRDA General Fund Proposition 13	💾 Save Pro	ogress	Next Page

Figure 9. Select funding source and enter amount of money from each source

Project details Select project category and upload project footprint

As shown in Figure 10, select the project category that is most appropriate for your project from the drop-down menu. Then upload your project footprint. The footprint should be a shapefile compressed into a .zip folder.

Project Category			
, ,,			
Select an option			*
' Upload zipped shap	efile of projec	ed Location will d based on the s centroid.	🚱 Hide Map
38.4 KB			
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Figure 10. Project details information requirement

Project Location

Based on the uploaded .zip shapefile of the project footprint, the application will calculate the project location, Water Body(s), Conservation Planning Area(s), Regional Flood Maintenance Plan(s), , County(s), Local Maintaining Agency(s), Congressional District(s), Urban/Nonurban Delineation(s) and Disadvantaged Communities. Click "Save Progress" to save your project details before moving to the next page.

Project permits and mitigation

Programmatic permits

Some projects are covered under regional permits. If your project is part of a regional permitting program listed here, please check the appropriate box (Figure 11).

Central Valley Flood Protection Board Permit Number

Please enter the appropriate CVFPB encroachment permit number (Figure 11).

Existing or new mitigation credits

From the dropdown menu, select whether this project will use existing mitigation credits, or whether it creates new mitigation credits that can be used by others. If you select "use existing," more boxes will appear. Use the arrow to toggle to the amount of credits that will be used by your project. Then enter the name of the mitigation bank (or source) that these mitigation credits belong to. Finally, select from the drop-down menu the mitigation type that was used by the existing mitigation credits (Figure 11).

	Project Permits and Mitigation	* Required Field
	Under which programmatic permit (if any) does this project apply(check	all that apply) 's
Project Funding	* CVFPB Encroachment Permit Number	
	2 12345	
Project Permits and Mitigation	> Does this project use existing mitigation credits or create new mitigation	credits?
Levee Conditions	3 Use Existing	Ŧ
	* If project uses existing credits, how many credits?	
	Enter number	
Subn	* Who currently owns or holds the credits that would be acquired?	
	5 Enter Source	
	If project required mitigation/used existing mitigation credits, confirm m	itigation type.

Figure 11. Select programmatic permits, encroachment number, and specify mitigation credits

Upload shapefile of mitigation used

Using the template provided to you, upload the shapefile of mitigation required for the project as a .zip file. If you purchased mitigation credits, it is unlikely you would have a location already specified and, therefore, you would not have a shapefile. In this case, select the option "Purchased credits."

Levee conditions

If your project made modifications to a levee, the "Levee Conditions" page (Figure 12) will appear. In order to track the improvements or deterioration of the SPFC infrastructure, it is important to capture how each project changes the condition of the levee system. In this section, you will upload the GIS shapefile of the levee segment that your project modified for every deficiency that was improved. If you have previously downloaded a GIS template in which to develop this shapefile, this is what you should upload.

pped shapefile Template 💎
o shapefile here or click to upload.
ssification - Upload zipped shapefile Template 👽
o shapefile here or click to upload.
l zipped shapefile Template 👽
o shapefile here or click to upload.
oload zipped shapefile Template 👽
o shapefile here or click to upload.
I zipped shapefile Template o shapefile here or click to upload.

Figure 12. Upload shapefile for each levee deficiency that is addressed with your project

Channel conditions

If your project type modified a channel in some way, the Channel Conditions page will appear. You must first check which channel deficiency (Figure 13) was improved by your project; select from channel capacity, channel vegetation, and/or sedimentation. For each box that you check, you must then upload the shapefile for your reach of channel. You will be required to upload one shapefile as a .zip file for each deficiency that was modified by your project.

Channel Conditions	* Required Field
 * Which channel deficiency was improved by this proj Capacity Vegetation Sedimentation 	ect?
2 Channel Capacity - Upload shapefile	,
8.5 KB DosRios3Ami Remove file	
Previous Page	ress Next Page

Figure 13. Select channel deficiency and upload channel shapefile

Hydraulic structures

If your project improved a hydraulic structure or bridge, pumping plant, etc., this page will appear (Figure 14). You must then upload the shapefile (as a .zip) you developed using the template for the appropriate structure given your project. Only upload a shapefile for the appropriate structure, some are likely to remain empty.

Project Results - Structures	* Required Field
If your project modified or improved a hydraulic structure, pumping plant, or brid shapefile for each structure that was improved.	ge, please upload a
Change in Hydraulic Structure - Structural - Upload zipped shapefile	Template 💎
Drop .zip shapefile here or click to upload.	
Change in Hydraulic Structure - Vegetation and Obstruction - Upload zipped s	hapefile
Drop .zip shapefile here or click to upload.	Template 🕈
Change in Hydraulic Structure - Encroachment - Upload zipped shapefile	Template 👽
Drop .zip shapefile here or click to upload.	
Change in Pumping Plant - Upload zipped shapefile	Template 👽
Drop .zip shapefile here or click to upload.	
Change in Structures - Bridge Conditions - Upload zipped shapefile	Template 💎
Drop .zip shapefile here or click to upload.	
Previous Page 🎽 Save Progress	Next Page

Figure 14. Hydraulic structures information page

Ecosystem

In this section, we will capture how your project affects the conservation strategy measurable objectives. If uploading a floodplain reconnection or restoration project, enter the amount of Expected Annual Habitat (EAH) (if calculated). Then answer the subsequent questions as appropriate (Figure 15). Use the template previously downloaded and upload the various shapefiles as a .zip file.

Ecosystem	* Required Field
How many acres of floodp	lain are within the Expected Annual Habitat (EAH)? (optional)
Enter number	
* Will the project change t FIP)? O Yes O No	he elevation of the floodplain to below 2-year floodwater level (50%
If project increased flood; apply)?	lain, by what means did project expand floodplain (check all that
Raising a River Bed	Lowering Floodplain
Remove Levee	Setback Levee
Breaching	Other Reconnection
Change in Fish Passage Ba	rriers - Upload zipped shapefile Template 💎
	Drop .zip shapefile here or click to upload.
Change in Habitat Area in	Floodway - Riparian - Upload zipped shapefile Template 👽
	Drop .zip shapefile here or click to upload.

Figure 15. Enter appropriate information for changes to the ecosystem measurable objectives

Submit your project

Be sure to submit your project. If any required fields are missing information, they will show up at this time (see Figure 16), and you will not be able to submit your project until they are complete. If you are not ready to submit your application, your progress will automatically be saved. When you finish, be sure to submit it.



Figure 16. If project entry is incomplete, a list of missing information will pop up after clicking "Submit"

Query and search for information

Information entered into the tracking system can be viewed, queried, and displayed only after the data steward has reviewed the project that was entered and QA/QCs it for submission.

From the Home landing page, select the Search page to search for projects, review baseline data, and perform other queries.

Search for a project by a range of parameters

Searching for projects is possible by selecting from a number (or all) of parameters including: Keyword (item 1), by project type (item 2); by Conservation Planning Area (item 3); by River/ Waterbody (item 4); by County (item 5); by Local Maintenance Area (item 6); by Regional Flood Maintenance Plan (RFMP) (item 7); by Congressional District (item 8); and by Legislative District (item 9). To aid in selecting the appropriate value for each filter, for example RFMPs, the range of values are displayed, as shown in Figure 17, when clicking one of the options in the box.

0‱ n f ⊻ 8+ ⊠					Help	Contact	Feedback	🗘 Settings
	ø	Q	*			<u>.</u>		
	About	Search	Enter Data	QAQC	Reporting	Resource	es	Sign Out
Q Search Search for Projects and Metrics using a ran, project name in the List View and selecting	ge of basic and advanced criter , "Project Detail Page."	ia. View results a	nd data in Map View	and List View. Ge	et more information o	on each proje	ect by clicki	ng on the
Name or Keyword	Project Type		Conservation P	lanning Area	3 River /	Waterbody	4	
Enter Keyword	Select an option	*	Select Some O	ptions	Selec	t Some Optic	ons	
County 5	Local Maintaining Agenc	y 6	Regional Flood	Management P	lan 7			
Select Some Options	Select Some Options				I			
Congressional Districts	Leg Districts 9		Select an option Feather River Upper Sacrame	n ento River				
Select Some Options	Select Some Options		Mid-Sacrament	o River ento River / Delta	North			
Additional Search Options			Lower San Joac Mid-San Joaqu Upper San Joac	quin River / Delta in River quin River	a South			
Search Clear Search								
Мар	List							
		A S S S S S S S S S S S S S S S S S S S	Moder Rosau Torsau	BASIN	Bons Layers 2 Projects Ex	Id alto Fails	s Metr	io ear all

Figure 17. Basic options to search by a range of parameters

Advanced search

By clicking "Additional Search Options" as shown in Figure 18, you may now search for projects using additional parameters, including: project name (enter the text), regional flood management plan area (select from a drop-down menu), funding source (select from a drop-down menu), by a metric that was created during the project (select from a drop-down menu), from a date range (enter date), by location (type a name), and by Central Valley Flood Protection Board Permit

Number (enter the number). In any of these cases, once you select your search parameters, click the "search" button.

Search Search for Projects and Metrics using a range of basic and advanced criteria. View results and data in Map View and List View. Get more information on each project by clicking on the project name in the List View and selecting, "Project Detail Page." Name or Keyword Project Type **Conservation Planning Area** River / Waterbody Enter Keyword Ŧ Select an option. Select Some Options Select Some Options County Local Maintaining Agency Regional Flood Management Plan Select Some Options Select Some Options Select Some Options **Congressional Districts** Leg Districts Select Some Options Select Some Options Additional Search Options Prolect Name Funding Source Ŧ Enter Name Select an option.. Metric Characteristic From То Ŧ Select an option.. Select an option Date Range **Project Status CVFPB Permit Number** 2010 Ŧ Enter Number Select an option..



Figure 18. Advanced search options provide additional parameters for search

View search results on a map and list

The map will then display all projects that meet the search parameters and you may zoom in or out to view the project (Figure 19).

You may also view these projects in a list by clicking the "list" option (Figure 20). This also displays the project development phase.



Figure 19. View search results on map

Search	Clear Search
--------	--------------

	Мар	List						
			Search	:				
	Name		•	Status		Å		
+	Agricultural Road Crossing 4 Fish	Passage		Planning				
+	Arroyo Canal Screening and Sack	Dam Passage		Planning				
+	Dos Rios Ranch Floodplain Expan	sion and Ecosystem Restoration Project		Complete				
+	Eastside Bypass Improvements			Permitted				
+	Fremont Weir Adult Fish Passage					Complete		
+	Kopta Slough Flood Damage Reduction & Habitat Restoration					Planning		
+	Lookout Slough Tidal Habitat Restoration and Flood Improvement							
+	Lower Elkhorn Basin Levee Setback Project				In Construction			
+	Mendota Pool Bypass and Reach 2B Improvements							
+	Oroville Wildlife Area Flood Stage Reduction				Complete			
+	Tisdale Weir Rehabilitation and Fish Passage					Planning		
+	TRLIA Feather River Setback Cons	servation Bank		Complete				
+	Yolo Bypass Salmonid Habitat Restoration and Fish Passage Planning							
Showing	1 to 13 of 13 entries			Previous	1	Next		

Figure 20. View search results in list

View project details

To get more information about a project, select the project from the list or the map, and click on the "+" symbol to expand it. Then click "Project Detail Page" (Figure 21).

Search	Clear Search					
	Мар	List				
			Search			
	Name		*	Status 🔶		
+	Agricultural Road Crossing 4 Fish	Passage		Planning		
+	Arroyo Canal Screening and Sack	Planning				
_	Dos Rios Ranch Floodplain Expan	Complete				
Project Title: Dos Rios Ranch Floodplain Expansion and Ecosystem Restoration Project Project Status: Complete Project Detail Page Download Project Shapefiles						
+	Eastside Bypass Improvements			Permitted		
+	Fremont Weir Adult Fish Passage			Complete		

Figure 21. Expand project to view project details

Project Detail page

On the Project Detail page (Figure 22), you can review a description of the project, the agency or project contact responsible for implementation, a map of the project, and the metrics that were changed by this project. If a project photo was uploaded during the project data entry process, then a photo will display on this page as well. You also have the option to return to search results.



Figure 22. View project detail page

Mapping functions

The map will show the existing conditions information as recent as the last update. For example, you may not see your project on the map immediately after you upload it. But as soon as the DWR data steward validates and confirms your project, they will upload it and the results should be visible on the map. You can choose which layers you want to see using the check boxes next to each layer in the "Layers" pop out (Figure 23). In addition, all projects that have been approved and QA/QC'd will be available to view on the map.



Figure 23. "Layers" box enables you to scroll and select which metrics you would like to view

Produce a report

The Reporting landing page (Figure 24) can be accessed from the primary landing page. Here you may opt to create reports on the flood system status, progress, and targets; you could view reports related to project funding; and you may view "other" reports. At this time, "other" is a placeholder for any future reports that may be developed.



Figure 24. Reporting landing page allows users to select from different report types

Status, progress, and targets reports

Select an ecosystem metric from the dashboard

On this page, you are presented with three tabs—Ecosystem, Levees, and Channels & Structures. On each tab, as shown in Figure 25, each metric is identified with a corresponding icon. Selecting that metric allows you to generate a specific report for that metric.

Status, Progress, and Targets

Review flood infrastructure and habitat status. Investigate project benefits and progress toward goals.

Ecosystem Levees Channels & Structures		
Floodplain Inundation - Major River Reach	Floodplain Inundation - Bypass/Transient Storage	Natural Bank
>	>	>
Meander Potential	Fish Passage Barriers	Riparian Habitat
>	>	>
SRA Cover - Riparian Lined Bank	Marsh and Wetland Habitat	Revetment
>	>	>

Figure 25. Choose from ecosystem metrics, levees, or channels and structures

Select a Conservation Planning Area and project status, and choose a date range

On the Selection pane on the left-hand side (Figure 26), you will first use the drop-down menu to select which of the five Conservation Planning Areas (or the whole Systemwide Planning Area) you would like a report on for this metric. You can also select by RFMP, County, Urban/Non-Urban Delineations or Disadvantaged Communities. Then select whether you want a report on only completed projects or on projects in another phase. The default is completed projects. Finally, use the slider bar to select the date range to see the amount of that metric (e.g., floodplain) that was created through projects during that period.

Select Some Options	
RFMP	
Select Some Options	
County	
Select Some Options	
Jrban/Non-Urban Delineations	
Select Some Options	
Disadvantaged Communities	
Select Some Options	
Project Status	
Complete	v
Date Range 10 2018	
onservation Planning Area	
All Conservation Planning Areas	
upper Sacramento River	
Featner River 2	
Lower Sacramento	
upper san Joaquin	



View results numerically and on a map

The results of that query, including the total amount of that metric created, is shown in the Results box. In addition, the map to the right shows the total of amount and location of the metric that was created in the query. A large number in **bold** displays the calculation of the total amount of the metric compared to the target for that metric set in the 2016 Draft Conservation Strategy (Figure 27).

		1. Sector	1.5. 21.0			
nservation Planning Area	A (11)		1-25	avers C	all a second	
Select Some Options	A	SACRAMENTO VA	ELEY	Matria	Projecto E	viction Condi
FMP	Yolo		1	WEING	Holeona E	A Sing Condi
Select Some Options		1	Roseville	BWFS Dos Rios	/Three Amigos	Clear a
sumtry	Carl	· Crook	Citrus	Project tootp	TOTIL.	
	. Higher	Woodland	Heights	BWFS Sacrame	nto River Option 3	
select Some Options		Davis	Sacramento	Project tootp	nnt	
rban/Non-Urban Delineations	hap a Berryesta	from free	a Sacramento	🗌 Project V		
Select Some Options	2011年1月	25	1	🗌 Project N		
belete bonne op donis	Party Le Strik		Elk Gros	Project O		
sadvantaged Communities	Napa	Vacaville	A I X	C Design M	11 Salar	Kr -0
Select Some Options	10 23 2	Solan	the for		XMA	
rolect Status		12	351		Cal	axoras
All Design Dhares			Lod			
All Project Phases	Vallejo			N.		174
ate Range		Antioch		Esri, HERE	Garmin, FAO, US	SGS, NGA.
2018	, poster i date are i date.			A	100	A LILLE
DECUITE	1					
RESULIS						
5 730 Acres Restored						
TARGET: 15,000 Acres						
200/						
38% OF Metric Target Total ∽						
METTARGET						
38%						
EZ NEEDS IMPROVEMENT						

Figure 27. Report shows progress toward conservation targets and the presence of metrics on the map

The circle will be green if the progress is 70 percent of target or greater, indicating "Met Target" or "Making good progress." The circle will be orange if the progress is between 50 percent and 70 percent, and red if progress is 50 percent or less.

Display results over time and view the projects that are accounted for in this report

At the bottom of the page is a graph that shows the total amount of that metric restored on the vertical y-axis, and the time period on the horizontal or x-axis (Figure 28). The bar is divided by Conservation Planning Area, so it displays the total amount of metric restored, and the different

shades are portioned to the amount restored in each Conservation Planning Area. Below that is a list of all the projects included in the report. You may click on the projects for more information.



Figure 28. View progress over time by Conservation Planning Area and the projects included in the report

Export results

To export your results, click the camera icon as shown in Figure 29 to download as a .png.



Figure 29. Export results using camera icon

Select levee metrics from the Status, Progress, and Targets page

Selecting a levee metric brings you to the Levees dashboard (Figure 30) with icons for all levee deficiencies that are tracked and reported in the FSSR.



Figure 30. Levee metrics on Status, Progress, and Targets Reporting page

You will then select for the desired Conservation Planning Area and date range as in the prior instructions.

View results in a table and on a map

On the right, the map will show all those segments of levees that were improved to meet criteria over the date range selected. As with the ecosystem reports, first select the Conservation Planning Area, project phase, and date range (Figure 31).

The table at the bottom of the page displays the total amount of levees that meet the state's inspection criteria (within the parameters chosen), the length of levees that was improved in the given time range, the cost of improvements, and the average cost of levee improvement. A list of projects accounted for in the report will also appear at the bottom of the page.



Figure 31. Levees report

Funding and financial reports

To date, there is one primary report available related to the funding used to implement flood system projects. To create a financial report, users must start from the Reporting landing page (Figure 32) again by clicking "Reporting" and then select the link with the "\$" icon labeled "Funding and Financial."



Figure 32. Reporting page – Funding and Financial page selection

Once a user has arrived at the Funding and Financial page (Figure 33), they may select from the drop-downs to choose a particular project or management action type (item 1), project status (item 2), conservation planning area (item 3), funding source (item 4), and date range (item 5) to see how much money was spent according to those criteria. Figure 38 and Figure 39 show example results that will be will be displayed in both a histogram and a pie chart. The histogram shows the amount of money that was spent on that particular project type based on the funding source. The pie chart captures the percentage of the total funding that was contributed by each funding source.



Figure 33. Users can see the amount of money spent on projects based on project type, project status, the region, and the funding source



Figure 34. A pie chart displays the proportion of funding spent by each source

Finally, Figure 35 displays a list of all projects that are accounted for in the funding report that was just generated.

Сору	CSV Excel	PDF	Print				Search:		
	Project Name	, .	Amount Funded	Source 💠	Completion Date	Project Type 🗧	Project Statu	s 🜲	Conservation Planning ‡ Area
	Project B		\$10,000	FEMA Grant	10/5/2018	Channel Improvement	Complete		Upper Sacramento River
	Project E		\$10,000	Proposition 1E	10/5/2018	Channel Improvement	Complete		Feather River
	Project I		\$4,666	DWR Special Projects	12/10/2015	Channel Improvement	Complete		Lower San Joaquin
	Project I		\$3,444	Proposition 84	12/10/2015	Channel Improvement	Complete		Lower San Joaquin
	Project I		\$40	Other	12/10/2015	Channel Improvement	Complete		Lower San Joaquin
	Project J		\$45,000	USACE	8/3/2017	Channel Improvement	Complete		Upper San Joaquin
	Project J		\$35,000	FEMA Grant	8/3/2017	Channel Improvement	Complete		Upper San Joaquin
		Total:	\$108,150	-					
Showing	1 to 7 of 7 entries							Previous	s 1 Next

Figure 35. A list at the bottom of the page displays all of the projects that are factored into the results including the total for all projects.

FREQUENTLY ASKED QUESTIONS

What are the requirements, incentives, and/or triggers for projects being included in the tracking system?

Within DWR, any applicant seeking grant or local assistance funding from its programs should be required to submit GIS data for their project. With projects implemented by other agencies, someone within DWR may be tasked with coordinating with other agencies, and then tracking down GIS files for those projects.

At what phase in project development should a project be uploaded to the tracking system?

Projects should be entered no later than when permit authorization requests/applications are complete, typically at the 65% design phase. Projects *could* be uploaded as early as immediately after state funding notifications. Uploaded projects must input one of four status categories:

- Planning
- Permitted
- In construction
- Complete

The system is designed such that projects uploaded early in the process can be edited as the project evolves or is implemented, reflecting any differences on the ground.

At what phase in project development should project benefits be shown/realized in the tracking system relative to progress to targets?

One-hundred-percent completed projects that have been QA/QC'd by a data steward will be reported as counting toward overall CVFPP goals and objectives. Completed projects are defined as 100 percent complete when construction is complete (i.e., all benefits are on the ground).

The system is configured for query and reporting of projects and benefits that are in one of the other three phases (preliminary/planning; permitted; in construction); however, the default in reporting will show only those that are complete.

How frequently should the queue of uploaded projects be reviewed and posted by the Data Stewardship Team?

Quarterly review and posting would be appropriate; however, the Data Stewardship Team can review and post more frequently if directed. More frequent updates may be particularly important if knowing the running total of, for example, recently funded yet still-to-be-constructed projects (which would only be in preliminary/planning phase) is desired to understand the spectrum of project types as funding is allocated.

How/when should Expected Annual Habitat be calculated, given that only floodplain area polygons are being uploaded?

This is still being determined. Calculation of EAH is somewhat complicated, as the metric is not yet broadly included as a standard part of restoration planning and the procedure for calculation is mostly in academic publications.

How will Meander Potential be included in the system when data aren't available?

This is still being determined. Meander Potential information is available for portions of the Upper Sacramento River, but not for other locations in the Central Valley.

What is system-wide existing conditions data, as opposed to project data?

As described previously and in the companion Summary Report, system-wide or existing conditions data are the data that represent the best information we have on the flood system metrics today in terms of the amount, location, and condition. *Project data* is the information we will enter into the tracking system about each project for which we wish to account.

How frequently will system-wide data (existing conditions) be updated?

This will vary. Levee inspections information is collected annually, for example, but other information is not. See Table 1 in Section 2 of the Summary Report.