

Sustainable Groundwater Management Act Portal

Projects and Management Actions Module – Public Viewing Access

Instruction Manual



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1. Introduction

The Department of Water Resources (Department) has updated the [Sustainable Groundwater Management Act \(SGMA\) Portal](#) to include public viewing access for the [Projects and Management Actions \(PMA\) Module](#). The public view of the PMA Module is a centralized place to view data about projects and management actions (PMAs) that are being implemented by Groundwater Sustainability Agencies (GSAs) as part of their Groundwater Sustainability Plans (GSPs). The purpose of this **Instructions Manual** is to provide step-by-step instructions for using the public viewing access of the PMA Module on the [Sustainable Groundwater Management Act \(SGMA\) Portal](#).

This searchable database includes information and associated data on a broad range of PMAs such as groundwater recharge, allocations, land fallowing, data gap filling, and various other actions and activities. It also serves as a mechanism for GSAs to report on the current implementation status and progress of their PMAs, through an implementation update feature, which both assists them in meeting their regulatory annual reporting requirements and helps inform the Department in evaluating a basin's progress towards achieving sustainability.

In addition to this Instruction Manual, the Department has developed the following resources to assist members of the public with using the PMA Module:

- [PMA Module \(Public View\) – FAQ Document](#)
- [Video Tutorial: How to Use the SGMA Portal PMA Module](#)

If you have any questions or need assistance with using the PMA Module, please contact SGMPS@water.ca.gov.



2. Navigating to the PMA Module

1. Go to the SGMA Portal (www.sgma.water.ca.gov) on your web browser. To enter the **PMA Module**, click either the “**PMA Module**” button or the “**PMA**” icon on the site banner. You do **not** need to have a SGMA Portal account for public viewing access of the PMA Module.

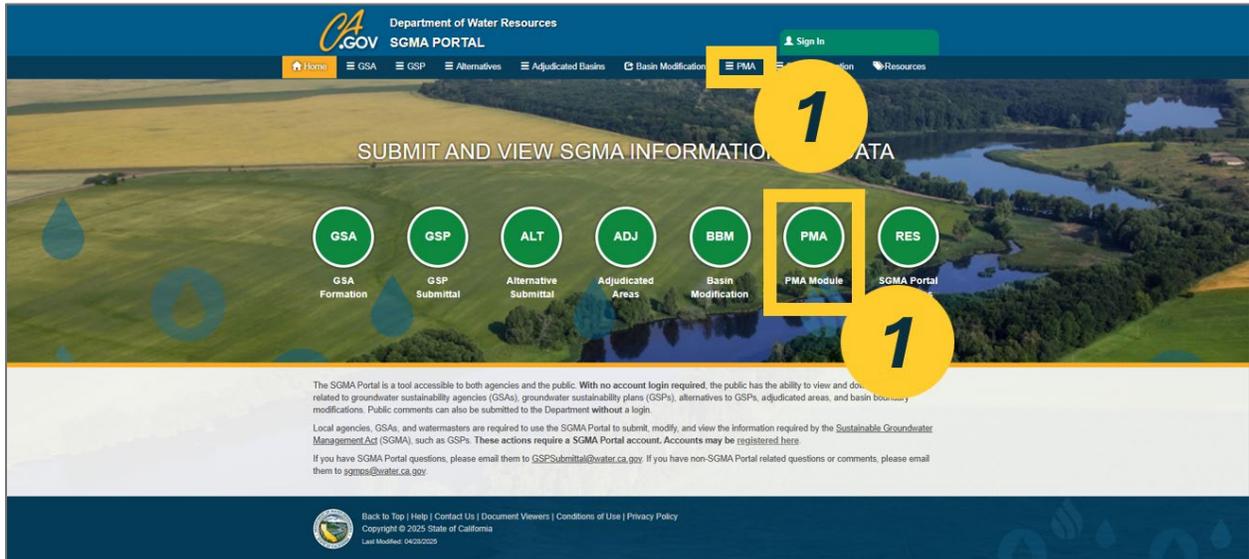


Figure 1. A screenshot of the SGMA Portal highlighting both the “PMA Module” button and the “PMA” icon on the site banner.

2. The “**All Projects / Management Actions**” page on the PMA Module will open and display a table containing the projects and management actions. This table will be referred to as the “**PMA Table**” throughout this manual. The PMA Table is used as a tool to allow users to search for PMA records and their associated data within the PMA Module.

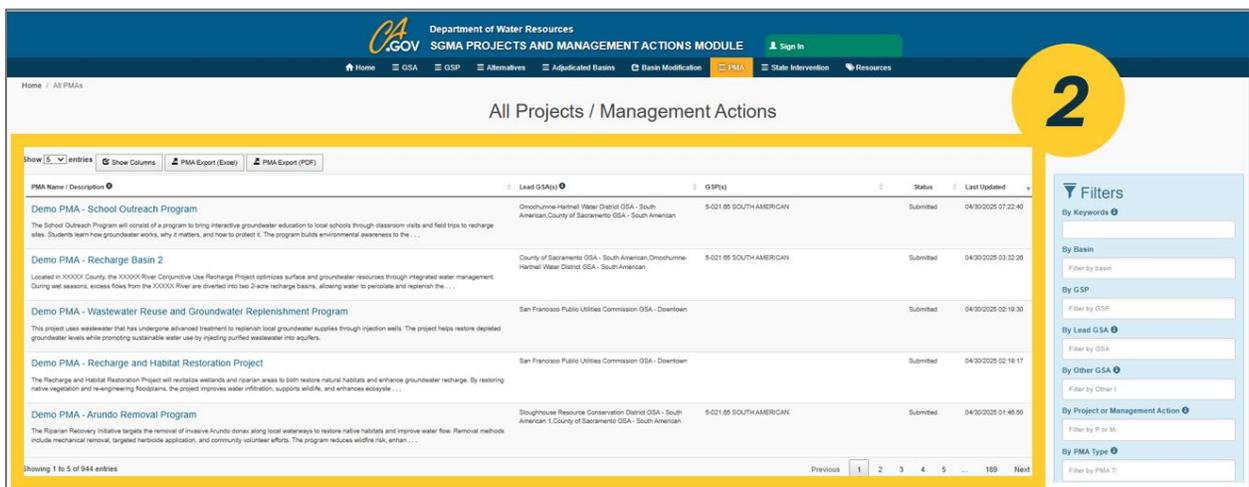


Figure 2. A screenshot of the “All Projects / Management Actions” page on the PMA Module. The PMA Table is highlighted for Step 2.



3. Basic PMA Table Functions

1. The number of PMA records (also referred to as “PMA entries”) currently being displayed in the PMA Table as well as the total number of PMA records in the PMA Module dataset will appear on the bottom left side of the table.
2. A set number of PMA entries will appear on one page of the PMA Table. To change how many PMAs are displayed in the table, use “**Show entries**” drop-down menu to select the desired number.
3. Use the “**Previous**”, “**Next**”, and **page number** buttons on the bottom right side of the PMA Table to navigate between pages of PMA entries.

The screenshot shows the 'All Projects / Management Actions' page. At the top, there is a navigation bar with 'CA.GOV' and 'Department of Water Resources'. Below the navigation bar, there is a 'Show' dropdown menu set to '5' entries, with a yellow circle '2' highlighting it. Below the table, there is a 'Showing 1 to 5 of 544 entries' label, with a yellow circle '1' highlighting it. At the bottom right, there is a pagination bar with 'Previous', '1', '2', '3', '4', '5', '...', '189', and 'Next' buttons, with a yellow circle '3' highlighting the 'Next' button. The table contains several rows of PMA entries, each with a description, Lead GSA, GSP, Status, and Last Updated date. A 'Filters' sidebar is visible on the right side of the table.

Figure 3. A screenshot highlighting the number of PMAs displayed in the table and the total number of PMAs for Step 1; the “Show entries” drop-down menu for Step 2; and the PMA Table page navigation options for Step 3.



4. Use the scroll bar on your web browser to scroll up and down the entire page. This allows you to access content such as the full length of the “Filters” menu.

5. Use the scroll bar on the right side of the PMA Table to scroll through the PMA entries on the PMA Table.

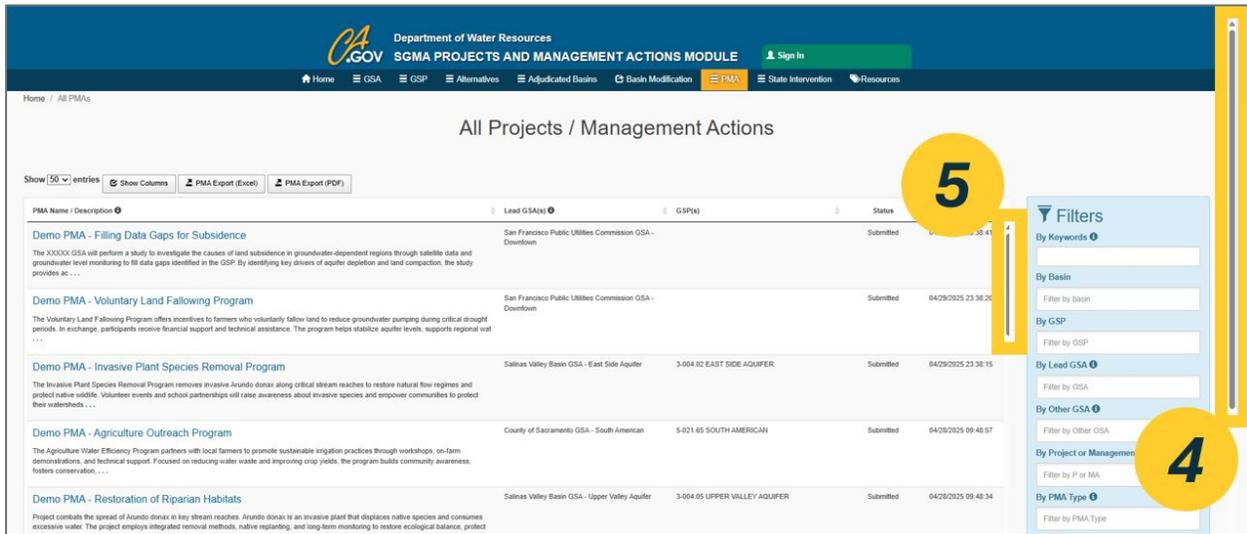


Figure 4. A screenshot highlighting the web browser scroll bar for Step 4 and the PMA Table scroll bar for Step 5.

6. To view a **description of the columns** that are displayed on the PMA Table, you can hover over the information “i” icon next to the column header to view a description of that field, if available.

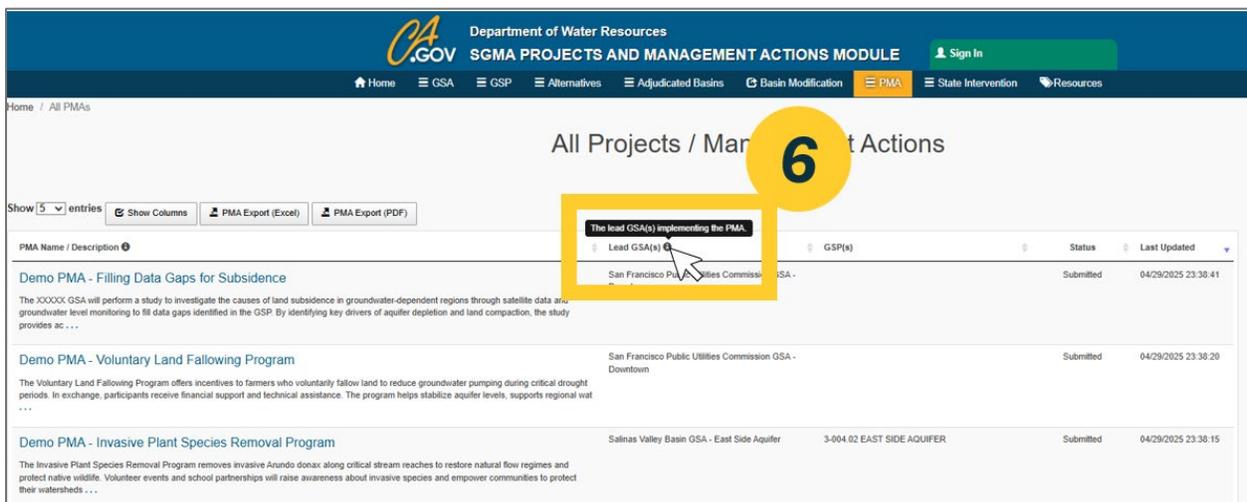


Figure 5. A screenshot showing the cursor hovering over the information “i” icon next to a column header to view the field description.



4. How to View PMA Details

When the PMA Table initially loads on the “**All Projects / Management Actions**” page, it displays only a subset of the data that is available for each of the PMAs.

The **PMA Module** collects standardized information for each PMA and stores this data in a dataset that contains over 80 fields. These fields can be viewed within the PMA details pages for individual PMAs. The data fields are categorized into **Base Information** data and **Implementation Updates** data.

- Base Information data includes details such as the name, description, type (e.g., recharge, demand management, etc.), location, funding sources, benefits, and water supply source.
- Implementation Updates data will be submitted annually for each PMA and are intended to provide updates on the progress of PMAs, including current status, new funding obtained, and quantifiable benefits accrued during a given water year.

The purpose of this section is to provide instructions for viewing **PMA Details** for a single PMA in a form-style format. For instructions on viewing the entire PMA Module dataset in a tabular format, see [Section 7.1](#) in this manual.

1. To view all PMA details for a specific PMA, click anywhere within the PMA’s row on the PMA Table.

PMA Name / Description	Lead GSA(x)	GSP(x)	Status	Last Updated
Demo PMA - Filling Data Gaps for Subsidence The XXXXX GSA will perform a study to investigate the causes of land subsidence in groundwater-dependent regions through satellite data and groundwater level monitoring to fill data gaps identified in the GSP. By identifying key drivers of aquifer depletion and land compaction, the study provides for ...	San Francisco Public Utilities Commission GSA - Downtown		Submitted	04/29/2025 23:30:41
Demo PMA - Voluntary Land Fallowing Program The Voluntary Land Fallowing Program offers incentives to farmers who voluntarily fallow land to reduce groundwater pumping during critical drought periods. In exchange, participants receive financial support and technical assistance. The program helps stabilize aquifer levels, supports regional water ...	San Francisco Public Utilities Commission GSA - Downtown		Submitted	04/29/2025 23:30:20
Demo PMA - Invasive Plant Species Removal Program The Invasive Plant Species Removal Program removes invasive Acacia shrubs along critical stream reaches to restore natural flow regimes and protect native wildlife. Volunteer events and school partnerships will raise awareness about invasive species and empower communities to protect their watersheds ...	Salinas Valley Basin GSA - East Side Aquifer	3-004 02 EAST SIDE AQUIFER	Submitted	04/29/2025 23:30:34
Demo PMA - Agriculture Outreach Program The Agriculture Water Efficiency Program partners with local farmers to promote sustainable irrigation practices through workshops, on-farm demonstrations, and technical support. Focused on reducing water waste and improving crop yields, the program builds community awareness, fosters conservation, ...	County of Sacramento GSA - South American	5-021 65 SOUTH AMERICAN	Submitted	04/28/2025 09:46:57
Demo PMA - Restoration of Riparian Habitats Project combats the spread of invasive species in key stream reaches. Acacia shrubs in an invasion threat that displace native species and compromise ...	Salinas Valley Basin GSA - Upper Valley Aquifer	3-004 05 UPPER VALLEY AQUIFER	Submitted	04/29/2025 09:40:34

Figure 6. A screenshot highlighting a PMA entry’s row in the PMA Table. The cursor is clicking within the row to open the PMA details window.



2. A pop-up window will open displaying the **PMA details** associated with the selected entry in a form-style format. The fields in the form correspond to the data fields that are collected by the PMA Module and are separated into the following categories: **PMA Info** (which includes basic information such as the name and description), **Location**, **Schedule and Implementation**, **Costs**, and **Benefits**. These fields comprise the PMA's **Base Information** data.

Additionally, if the PMA has **Implementation Updates** that have been submitted for it, these will also be displayed in the PMA details window in the **Implementation Updates** section.

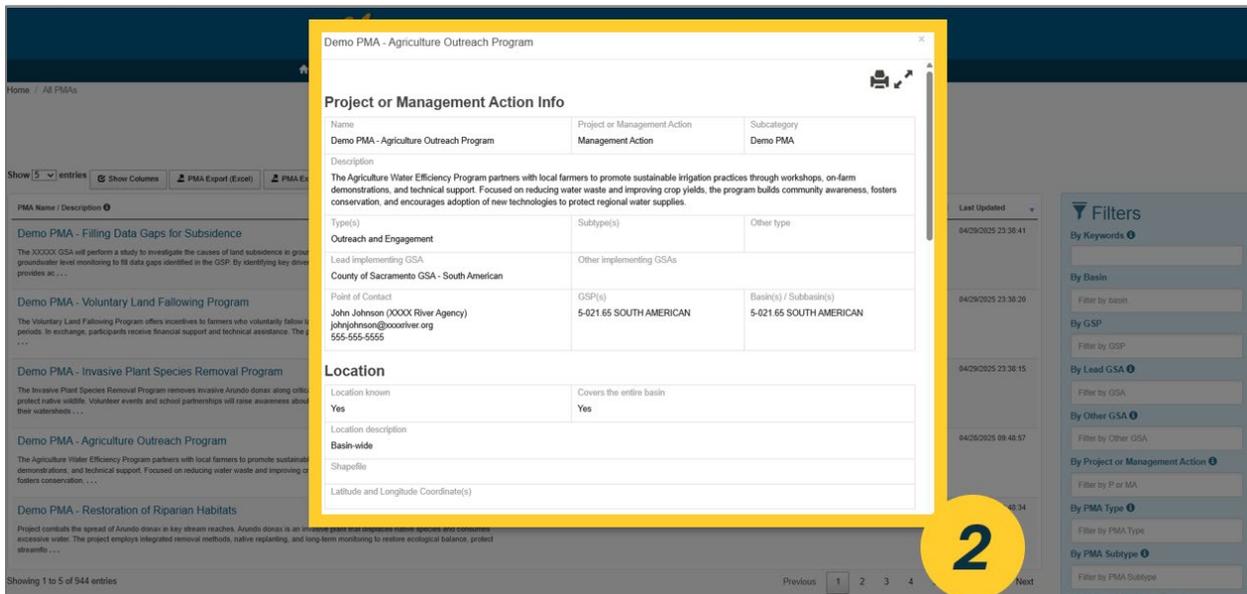


Figure 7. A screenshot of the PMA Details window.



3. To save and/or print the information that is displayed on the PMA details window, click the **printer icon** on the upper right side of the window. This will download a printer-friendly PDF containing the PMA details.

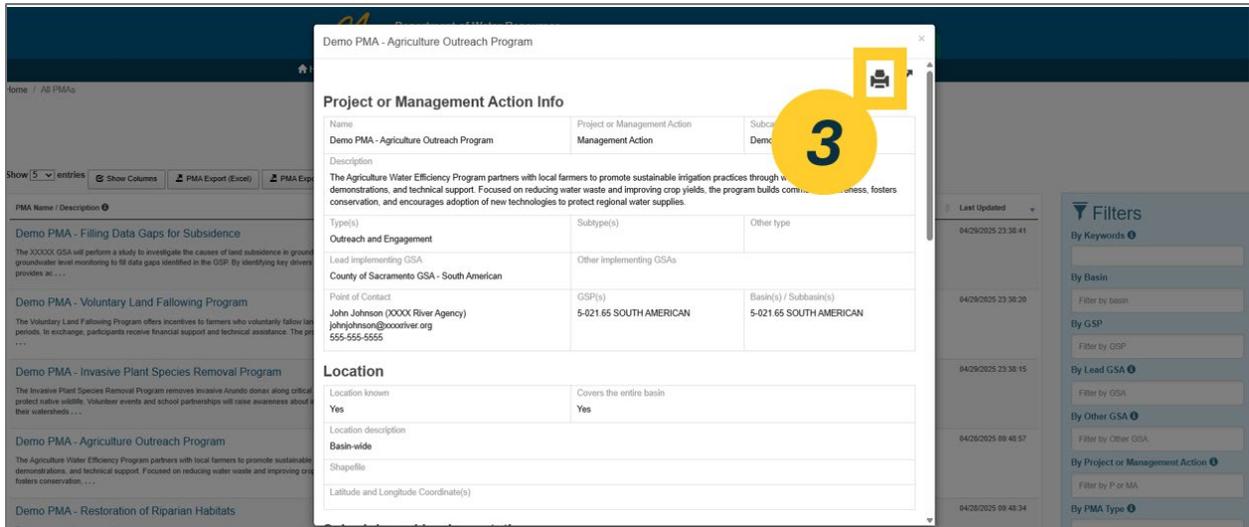


Figure 8. A screenshot of the PMA Details pop-up window highlighting the printer icon.

4. To see a full-screen version of the PMA details, click the **“Show Full Screen”** icon on the top right of the PMA details window.

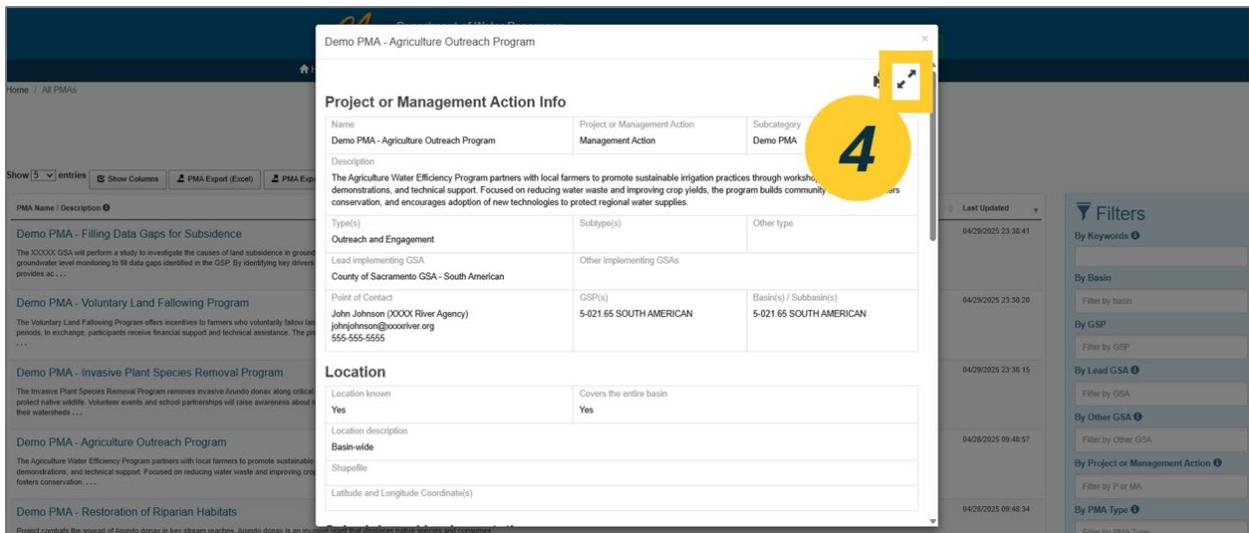


Figure 9. A screenshot of the PMA Details pop-up window highlighting the “Show Full Screen” icon.



5. The full-screen version of the PMA details will open in a new window of your web browser and will display the PMA Details on its own webpage.

Department of Water Resources
 SGMA PROJECTS AND MANAGEMENT ACTIONS MODULE

Home / All PMAs / Project: Demo PMA - Agriculture Outreach Program

Project / Management Action

5-021.65 SOUTH AMERICAN

Project or Management Action Info

Name	Project or Management Action	Subcategory
Demo PMA - Agriculture Outreach Program	Management Action	Demo PMA
Description The Agriculture Water Efficiency Program partners with local farmers to promote sustainable irrigation practices through workshops, on-farm demonstrations, and technical support. Focused on reducing water waste and improving crop yields, the program builds community awareness, fosters conservation, and encourages adoption of new technologies to protect regional water supplies.		
Type(s)	Subtype(s)	Other type
Outreach and Engagement		
Lead Implementing GSA	Other Implementing GSAs	
County of Sacramento GSA - South American		
Point of Contact	GSP(s)	Basin(s) / Subbasin(s)
John Johnson (XXXX River Agency) johnjohnson@xxxxxxxx.org 555-555-5555	5-021 65 SOUTH AMERICAN	5-021 65 SOUTH AMERICAN

Location Coordinates

Location known	Covers the entire basin
Yes	Yes
Location description	
Basin-wide	
Shapefile	
Latitude and Longitude Coordinate(s)	

Schedule and Implementation

Implementation Description

Figure 10. A screenshot of the full-screen format of the PMA details.



5. How to Search and/or Filter for PMAs

The PMA Module allows users to search for specific PMAs within their web browser on the “**All Projects / Management Actions**” page.

PMAs that contain certain words or phrases in their associated data can be searched for by using the “**By Keywords**” search function in the “**Filters**” menu. Instructions for using keyword searches are provided in [Section 5.1](#).

Additionally, the “**Filters**” menu also provides filtering options that allow users to refine PMA search results by selecting criteria within specific fields. Instructions for using the field filters are provided [Section 5.2](#).

The searching and filtering options explained in both sections can be used individually or in conjunction with each other to refine PMA search results. After applying the search and/or filter criteria, PMAs that match the criteria will be displayed within the PMA Table.



5.1. How to Search for PMAs By Keywords

1. Type the desired words or phrases directly into the “**By Keywords**” search box, located in the “**Filters**” menu on the right side of the “**All Projects / Management Actions**” page.

In the example shown below (Figure 11), the word “Arundo” was typed into the “By Keywords” search box.

2. The number of PMA entries that match your search criteria will be displayed on the bottom left side of the PMA Table.

In the example shown below (Figure 11), the PMA Table displays results 1 through 5 of 8 PMA results which contain the word “Arundo” in their respective PMA details.

3. To clear the search, delete the text in the “**By Keywords**” search box.

The screenshot displays a web interface for a PMA Table. At the top, there are controls for 'Show 5 entries', 'Show Columns', 'PMA Export (Excel)', and 'PMA Export (PDF)'. The table has columns for 'PMA Name / Description', 'Lead GSA(s)', and 'GSP(s)'. Five rows of results are visible, each starting with 'Demo PMA -'. A yellow box labeled '1' highlights the 'By Keywords' search box in the 'Filters' sidebar on the right, which contains the text 'Arundo'. A yellow box labeled '2' highlights the text 'Showing 1 to 5 of 8 entries' at the bottom left of the table. The 'Filters' sidebar includes sections for 'By GSP', 'By Lead GSA', 'By Other GSA', 'By Project or Management Action', 'By PMA Type', and 'By PMA Subtype', each with a corresponding search box.

PMA Name / Description	Lead GSA(s)	GSP(s)
Demo PMA - Arundo Removal Program The Riparian Recovery Initiative targets the removal of Invasive Arundo donax along local waterways to restore native habitats and improve water flow. Removal methods include mechanical removal, targeted herbicide application, and community volunteer efforts. The program reduces wildlife risk, enhan...	Sloughhouse Resource Conservation District GSA - South American 1, County of Sacramento GSA - South American	5-021 65 SOUTH AMERICAN
Demo PMA - Invasive Plant Species Removal Program The Invasive Plant Species Removal Program removes invasive Arundo donax along critical stream reaches to restore natural flow regimes and protect native wildlife. Volunteer events and school partnerships will raise awareness about invasive species and empower communities to protect their watersheds...	Salinas Valley Basin GSA - East Side Aquifer	3-004 02 EAST SIDE AQUIFER
Demo PMA - Restoration of Riparian Habitats Project combats the spread of Arundo donax in key stream reaches. Arundo donax is an invasive plant that displaces native species and consumes excessive water. The project employs integrated removal methods, native replanting, and long-term monitoring to restore ecological balance, protect streamfl...	Salinas Valley Basin GSA - Upper Valley Aquifer	3-004 05 UPPER VALLEY AQUIFER
Demo PMA - Erosion and Flood Risk Reduction This project will remove invasive Arundo donax from flood-prone riverbanks to reduce erosion and flood risk. By clearing dense stands and replanting with native vegetation, the project stabilizes soils, boosts biodiversity, and improves water efficiency. Educational outreach encourages landowner par...	County of Butte GSA - Butte 1	5-021 70 BUTTE
Demo PMA - River...ect Arundo Removal Program The Arundo Removal Program...tion Project will revitalize wetlands and riparian areas to both restore natural habitats and enhance groundwater rec... and ...	Castac Basin GSA	5-029 CASTAC LAKE VALLEY

Figure 11. A screenshot of the PMA Table. Step 1 highlights the “By Keywords” search function in the filter sidebar. Step 2 highlights the number of entries that match the search criteria. In this example, the word “Arundo” was typed into the “By Keywords” search box. The PMA Table displays results 1 through 5 of 8 PMAs which contain the word “Arundo” in their respective PMA details.



5.2. How to Search for PMAs By Field Filters

1. On the “All Projects / Management Actions” page, navigate to the “Filters” menu located on the right side of the PMA Table. Each of the filter options in the menu (with the exception of the “By Keywords” function) corresponds to a field that is collected within the PMA Module.

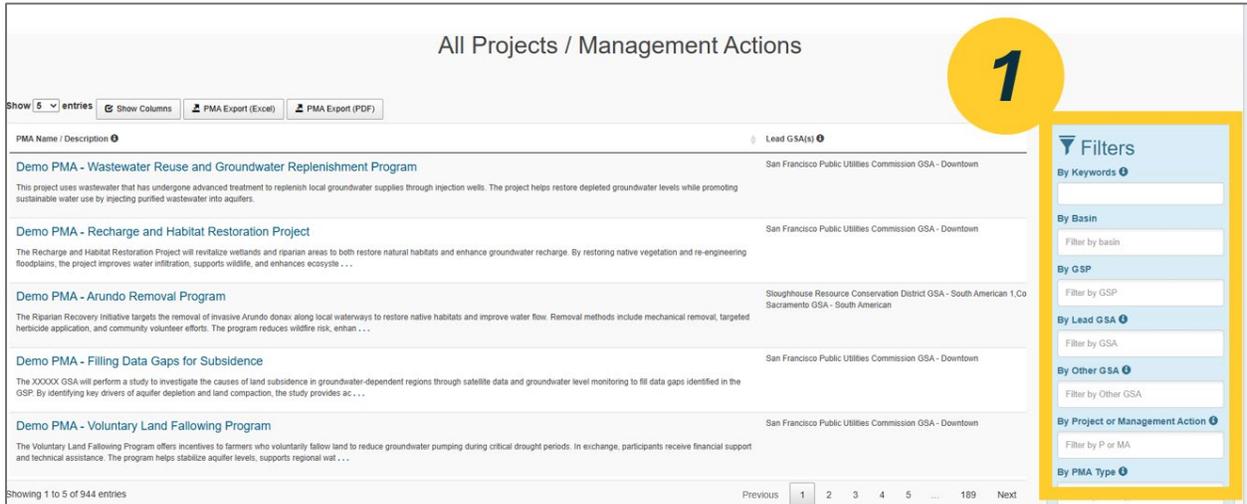


Figure 12. A screenshot highlighting the location of the “Filters” menu.

2. Hovering over the information “i” icon next to one of the filterable fields in the “Filters” menu will open a pop-up which provides a description of the field, if available.

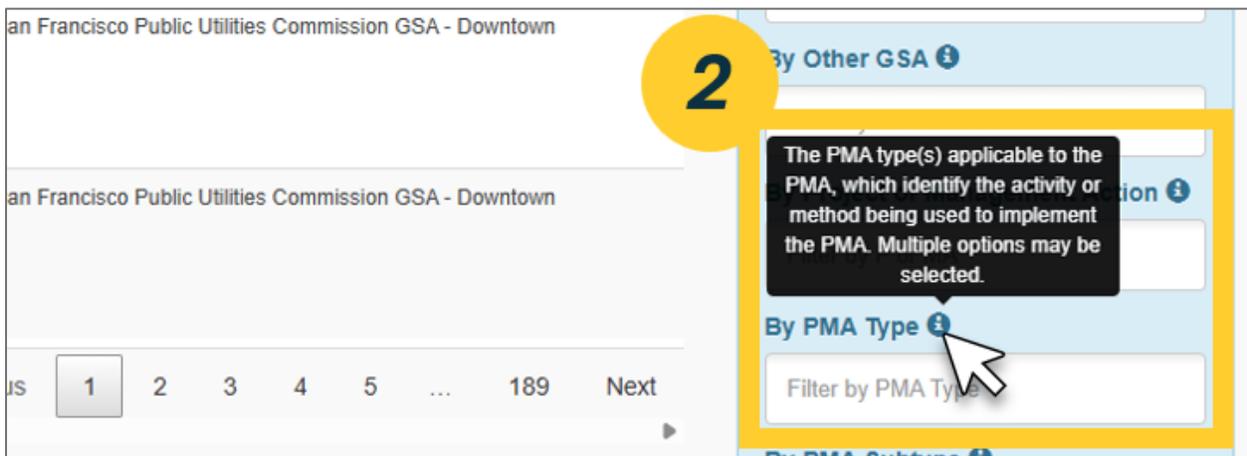


Figure 13. A screenshot showing the cursor hovering over the “i” icon, which opens the corresponding field description box.



3. Navigate to the desired field that the filter will be applied to. Click the box below the field name to display a drop-down menu with the selectable criteria for filtering. Click within the drop-down menu to select the desired criteria.

Multiple criteria can be selected within one field. Additionally, criteria can also be selected in multiple separate fields.

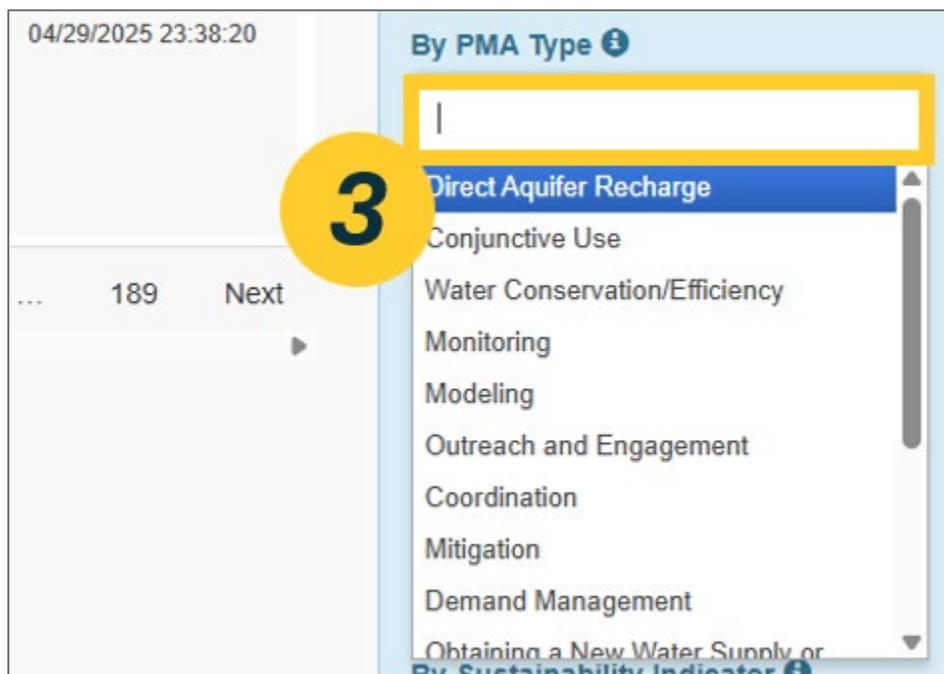


Figure 14. A screenshot showing the drop-down menu with selectable criteria for filtering a field.

4. After selecting the filter criteria, the selected criteria will be displayed in the box below the field name.

In the example shown in below (Figure 15), two fields have filters applied to them: the “By Basin” field is filtered by a specific basin, and the “By PMA Type” is filtered by “Direct Aquifer Recharge”.

5. The PMAs that match the search criteria will be displayed in the **PMA Table**. The total number of results that match the selected filter criteria will be displayed on the bottom left side of the table.

*In the example shown below (Figure 15), two results match the selected filter criteria. These results are PMAs that are **both** associated with that specific basin and have the “Direct Aquifer Recharge” selected as a PMA Type.*



All Projects / Management Actions

Show 5 entries Show Columns PMA Export (Excel) PMA Export (PDF)

PMA Name / Description	Lead GSA(s)	GSP(s)	Status	Last Updated
Demo PMA - Recharge Basin 2 Located in XXXXX County, the XXXXX River Conjunctive Use Recharge Project optimizes surface and groundwater resources through integrated water management. During wet seasons, excess flows from the XXXXX River are diverted into two 2-acre recharge basins, allowing water to percolate and replenish the ...	County of Sacramento GSA - South American, Omochumne-Hartnell Water District GSA - South American	5-021.65 SOUTH AMERICAN	Submitted	04/30/2025
Demo PMA - Recharge Basin The XXXXX Recharge Basin Project is planned in the XXXXX River and plans to capture stormwater during wet years, helping combat regional water scarcity. Native plants and monitoring systems support ecological health and ensure long-term sustainability of local water resources.	County of Sacramento GSA - South American	5-021.65 SOUTH AMERICAN	Ongoing	04/28/2025 09:47:59

Showing 1 to 2 of 2 entries (filtered from 944 total entries) Previous 1 Next

Filters

Keywords

By Basin

5-021.65 SOUTH AMERICAN x

By GSP

Filter by GSP

By Lead GSA

Filter by GSA

By Other GSA

Filter by Other GSA

By Project or Management Action

Filter by P or MA

By PMA Type

Direct Aquifer Recharge x

Figure 15. A screenshot showing the selected filter criteria for Step 4 and the number of corresponding results in Step 5. In this example, the “By Basin” field is filtered by a specific basin, and the “By PMA Type” is filtered by “Direct Aquifer Recharge”. Two results are displayed in the table that match the selected filter criteria.



6. How to Customize the Columns Displayed on the PMA Table

The PMA Module allows users to customize which **columns** are displayed on the PMA Table. Each column in the PMA Table corresponds to a data field collected as part of the PMA's Base Information. The PMA table does not include Implementation Updates Data, with the exception of the “Status” field.

Column customization can be used in conjunction with the filtering functionality explained in [Section 5](#), which can allow users to modify both which PMAs are shown and how the PMAs information is displayed in the PMA Module.

1. On the “**All Projects / Management Actions**” page, click the “**Show Columns**” button located on the top left of the PMA Table.

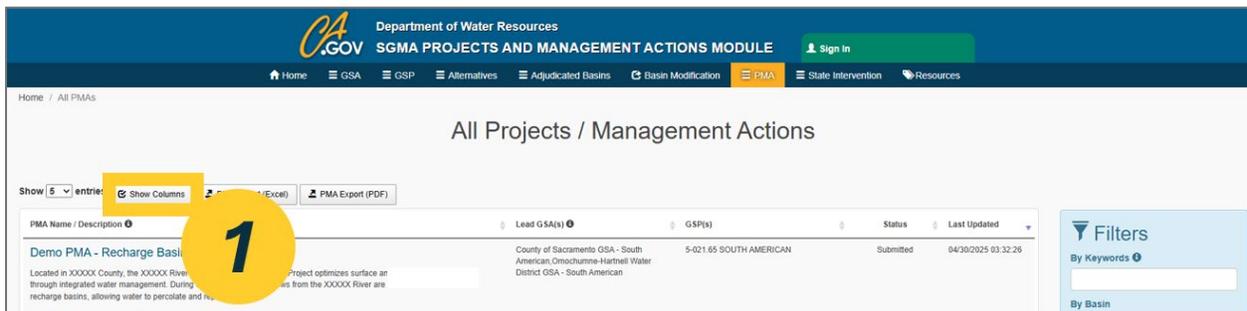


Figure 16. A screenshot highlighting the “Show Columns” button on the “All Projects / Management Actions” page.

2. The “**Show Columns**” drop-down menu will appear with the names of the fields that can be displayed on the PMA Table. Use the **checkboxes** to select the desired fields. To remove a field from the PMA Table, deselect the checkbox. Any number of columns may be selected.

3. Once all the desired selections are selected, close the “**Show Columns**” drop-down menu by clicking off the menu elsewhere on the page.

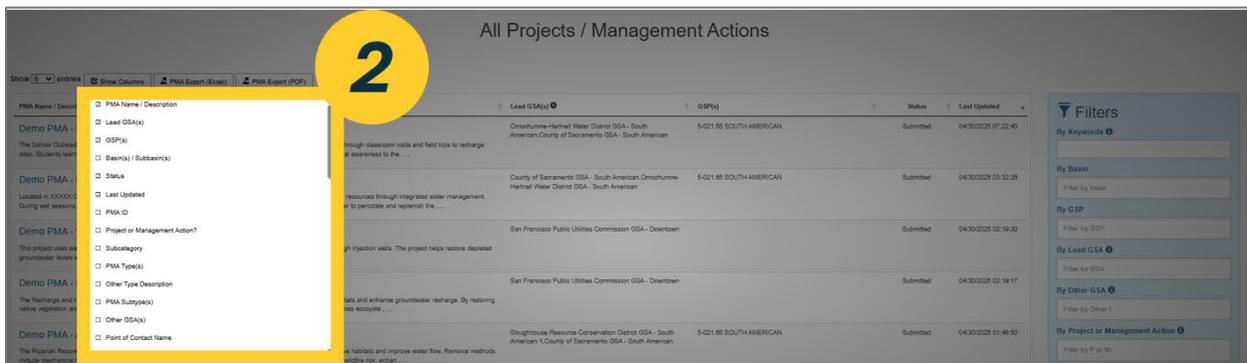


Figure 16. A screenshot highlighting the “Show Columns” drop-down menu. The fields are visible for the User to select to display them in the PMA Table.



4. The selected fields will appear as **columns** in the PMA Table.

5. Use the horizontal scroll bar to scroll left or right on the PMA Table.

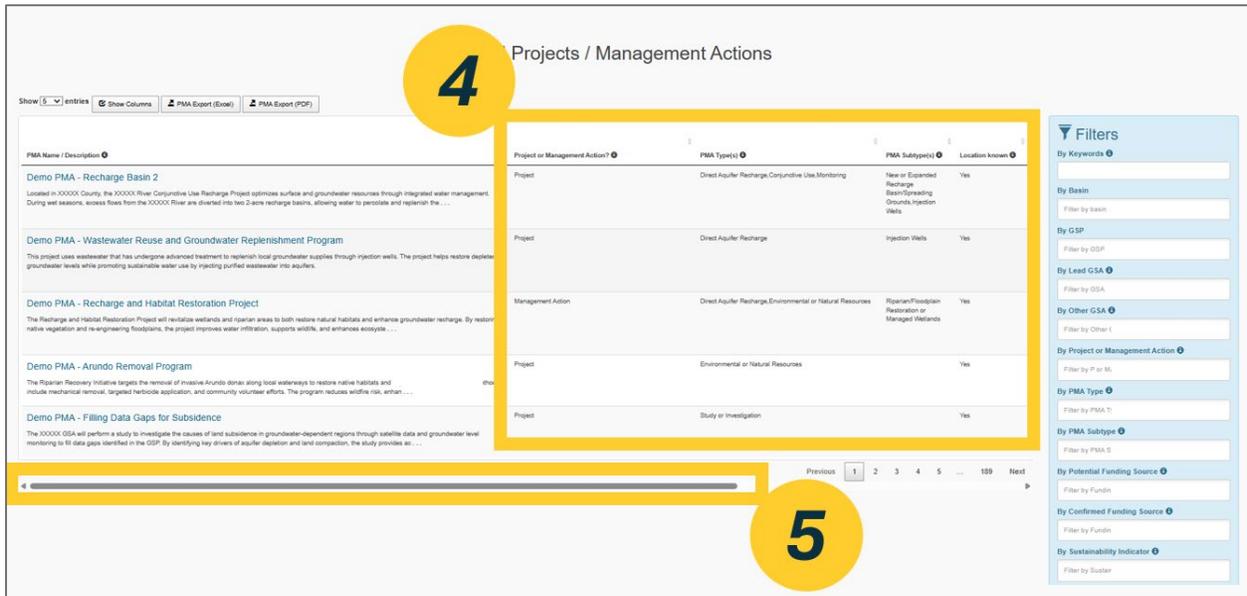


Figure 18. A screenshot with the newly added columns highlighted as Step 4 in the PMA Table. The horizontal scroll bar is highlighted for Step 5.

6. Click anywhere on a PMA's row at any time to view all a PMA's details in the PMA details window.

7. To see a description of the selected fields, hover over the information "i" icon next to the field PMA name in the column header.

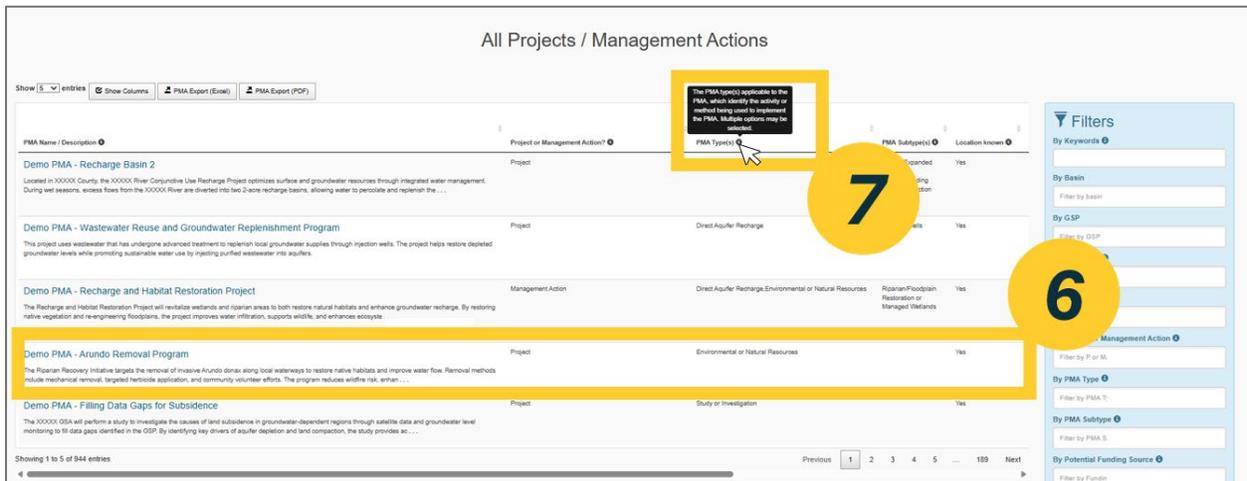


Figure 19. A screenshot with a PMA's row highlighted in the PMA Table for step 6. The cursor hovering over the "i" icon is highlighted for Step 7.



7. How to Download Data from the PMA Module

The PMA Module allows users to export the PMA data in either **Excel** or **PDF format**. Both the Excel and PDF export tools allow users to select which PMAs are included within the export.

The following sections provide instructions for exporting data from the PMA Module in both Excel (see [Section 7.1](#)) and PDF (see [Section 7.2](#)) formats. **Base Information data** and the **Implementation Updates data** have different export processes and must be exported separately; therefore, the processes for exporting these data types are discussed separately in the sections below.

For all exports, column visibility settings do not affect the data included in exported files. All fields associated with the selected PMAs will be included in exports, regardless of which columns are visible on the user’s web browser.

7.1. Excel Exports

7.1.1. Exporting PMA Base Information Data

1. Navigate to the “**All Projects / Management Actions**” page. Use the **search/filter functions** to search for PMAs that you want included in your Excel export file. For instructions on searching and filtering for PMAs, see [Section 5](#) of this manual.

To download the full PMA Module dataset as an Excel spreadsheet export, do not use any filters and move on to **Step 3**.

2. After applying the desired filters, check that the PMA Table contains **only** PMAs that are intended to be included in the Excel spreadsheet export.

In the example below (Figure 20), field filters have been applied in the “Filters” menu so that only five PMAs are shown as results in the PMA Table.



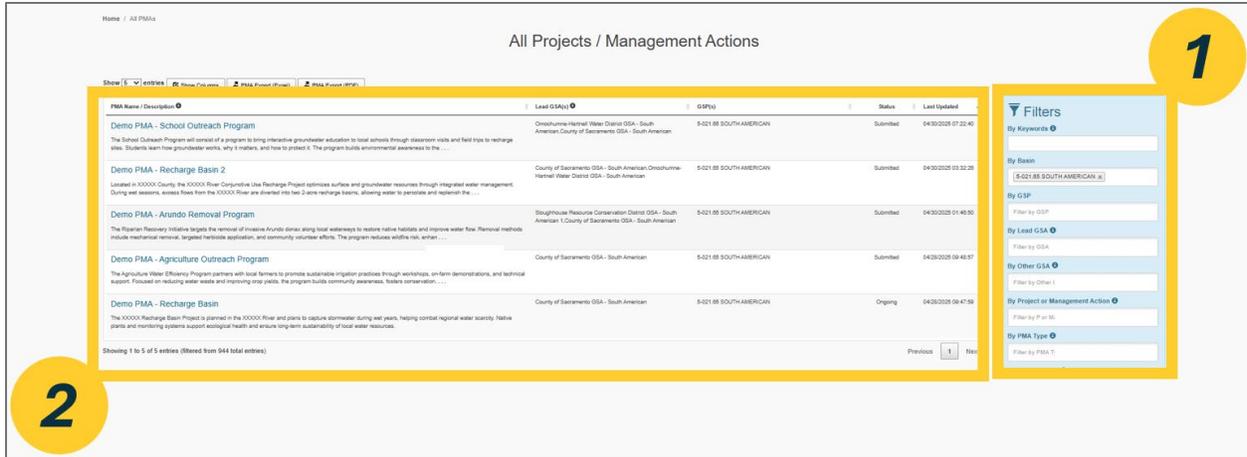


Figure 20. A screenshot of the All Projects/Management Actions page. The “Filters” drop-down menu with selected filters is highlighted for Step 1. The PMA table, which has been filtered to include only PMAs that will be included in the Excel export, is highlighted for Step 2. In this example, 5 PMAs are shown as results on the PMA Table.

3. Click the “PMA Export – Excel” button, located at the top left side of the PMA Table. The download of the Excel export file will be initiated.

In the example below (Figure 21), all Base Information data from the five PMAs shown in the PMA Table will be exported to an Excel spreadsheet.

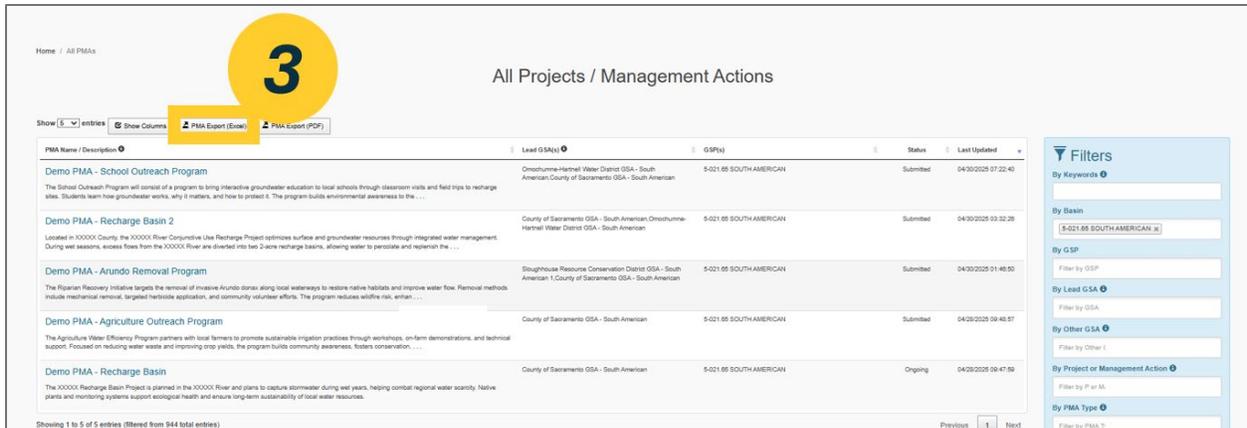


Figure 21. A screenshot highlighting the “PMA Export (Excel)” button.



4. The resulting Excel export file will contain all the Base Information data for the selected PMAs. Each column in the Excel export file corresponds to a data field.

In the example below (Figure 22), the Excel export file will contain all the Base Information data for the five PMAs that were selected in the PMA Table.

Project DB ID	PMA ID	Basin / Subbasin	GSP(s)	A.1 - Project or Management Action?	A.2 - Project or Management Action Name	A.3 - Subcategory	A.4 - Brief Description	A.5 - Project or Management Action Type(s)	A.6
947	5-02165_PMA_0	5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN	Project	Demo PMA - Recharge Basin	Demo PMA	The XXXXX Recharge Basin Project is planned in the XXXXX River and plans to capture stormwater during wet years, helping combat regional water scarcity. Native plants and monitoring systems support ecological health and ensure long-term sustainability of local water resources.	Direct Aquifer Recharge/Monitoring	
948	5-02165_PMA_1	5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN	Management Action	Demo PMA - Agriculture Outreach Program	Demo PMA	The Agriculture Water Efficiency Program partners with local farmers to promote sustainable irrigation practices through workshops, on-farm demonstrations, and technical support. Focused on reducing water waste and improving soil health, the program builds community awareness, fosters conservation, and encourages water-efficient landscaping.	Outreach and Engagement	
949	5-02165_PMA_2	5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN	Project	Demo PMA - Recharge Basin 2	Demo PMA	Located in XXXXX County, the XXXXX River Conjunctive Use Recharge Project optimizes surface and groundwater resources through integrated water management. During wet seasons, excess flows from the XXXXX River are diverted into two 2-acre recharge basins, allowing water to percolate and replenish the aquifer.	Direct Aquifer Recharge/Monitoring/Conjunctive Use	
950	5-02165_PMA_3	5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN	Project	Demo PMA - Arundo Removal Program	Demo PMA	The Riparian Recovery Initiative targets the removal of invasive Arundo donax along local waterways to restore native habitats and improve water flow. Removal methods include mechanical removal, targeted herbicide application, and community volunteer efforts. The program reduces wildfire risk, enhances biodiversity, and increases water availability for ecosystems and agriculture in affected riparian zones.	Environmental or Natural Resources	
951	5-02165_PMA_4	5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN	Management Action	Demo PMA - School Outreach Program	Demo PMA	The School Outreach Program consists of a program to bring interactive groundwater education to local schools through classroom visits and field trips to recharge sites. Students learn how groundwater works, why it matters, and how to protect it. The program builds environmental awareness to the next generation.	Outreach and Engagement	

Figure 22. A screenshot of the PMA data in Excel spreadsheet format.

7.1.2. Exporting PMA Implementation Updates Data

At this time, Implementation Updates data can only be exported in Excel format from **one PMA at a time**. The Department does not yet have a function to download Implementation Updates data from multiple PMAs simultaneously, but will add this functionality to the PMA Module in the future.

1. In the **PMA Table**, navigate to the desired PMA. Click anywhere within the PMA's row to open its **PMA details** window.

PMA Name / Description	Lead GSA(s)	GSP(s)	Status	Last Updated
Demo PMA - School Outreach Program The School Outreach Program will consist of a program to bring interactive groundwater education to local schools through classroom visits and field trips to recharge sites. Students learn how groundwater works, why it matters, and how to protect it. The program builds environmental awareness to the next generation.	Ornithume-Hermal Water District GSA - South American, County of Sacramento GSA - South American	5-02165 SOUTH AMERICAN	Submitted	04/30/2025 07:22:40
Demo PMA - Recharge Basin 2 Located in XXXXX County, the XXXXX River Conjunctive Use Recharge Project optimizes surface and groundwater resources through integrated water management. During wet seasons, excess flows from the XXXXX River are diverted into two 2-acre recharge basins, allowing water to percolate and replenish the aquifer.	County of Sacramento GSA - South American, Ornithume-Hermal Water District GSA - South American	5-02165 SOUTH AMERICAN	Submitted	04/30/2025 03:32:26
Demo PMA - Arundo Removal Program The Riparian Recovery Initiative targets the removal of invasive Arundo donax along local waterways to restore native habitats and improve water flow. Removal methods include mechanical removal, targeted herbicide application, and community volunteer efforts. The program reduces wildfire risk, enhances biodiversity, and increases water availability for ecosystems and agriculture in affected riparian zones.	Broughhouse Resource Conservation District GSA - South American, County of Sacramento GSA - South American	5-02165 SOUTH AMERICAN	Submitted	04/30/2025 01:46:50
Demo PMA - Agriculture Outreach Program The Agriculture Water Efficiency Program partners with local farmers to promote sustainable irrigation practices through workshops, on-farm demonstrations, and technical support. Focused on reducing water waste and improving crop yields, the program builds community awareness, fosters conservation, and encourages water-efficient landscaping.	County of Sacramento GSA - South American	5-02165 SOUTH AMERICAN	Submitted	04/30/2025 09:48:10
Demo PMA - Recharge Basin The XXXXX Recharge Basin Project is planned in the XXXXX River and plans to capture stormwater during wet years, helping combat regional water scarcity. Native plants and monitoring systems support ecological health and ensure long-term sustainability of local water resources.	County of Sacramento GSA - South American	5-02165 SOUTH AMERICAN	Ongoing	04/30/2025 06:41:30

Figure 23. A screenshot highlighting the cursor clicking within a PMA's row to open the PMA details window.



2. In the PMA details window, scroll down to the “Implementation Updates” section. Click the “Export (Excel)” button to initiate the download of the Excel export file.

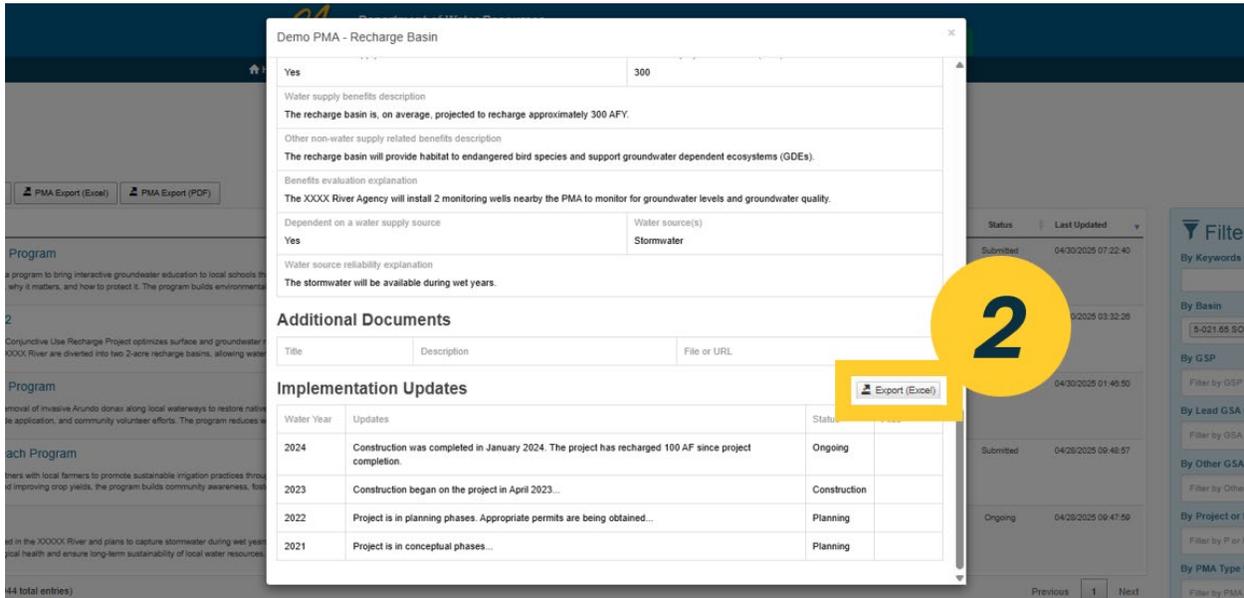


Figure 24. A screenshot of the PMA details window, highlighting the location of the “Export (Excel)” button for the Implementation Updates section.

3. Open the Excel export file. The file will contain all Implementation Update data that was submitted by the GSA for the PMA.

Basin	GSP	Implementation Date	Water Year *	Status *	Description of the project or management action's progress towards implementing the plan since the previous annual report. **	No Update - Provide an explanation.	Provide an explanation for withholding the PMA. **	Were new sig of funds acquired?
5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN		2024	Ongoing	Construction was completed in January 2024. The project has recharged 100 AF since project completion.			No
5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN		2023	Construction	Construction began on the project in April 2023...			Yes
5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN		2022	Planning	Project is in planning phases. Appropriate permits are being obtained...			Yes
5-02165 SOUTH AMERICAN	5-02165 SOUTH AMERICAN		2021	Planning	Project is in conceptual phases...			No

Figure 25. A screenshot of the exported Excel file containing the Implementation Update data for the PMA.



7.2. PDF Exports

The PDF Exporter tool generates a form-style PDF document that displays each PMA's data organized by field, similar to the layout on the PMA details pages shown in [Section 4](#). When exporting multiple PMAs simultaneously, the exporter compiles them into a single PDF file with each PMA's details on separate, consecutive pages.

At this time, the PDF exporter can only export Base Information data with some limited Implementation Updates data. The Department plans to release more PDF export capabilities for the Implementation Updates data in the future.

1. Use the **search/filter functions** to search for the PMAs that will be included in the PDF export. For instructions on searching for specific PMAs to include in the PMA Table, see [Section 5](#) of this Instructions Manual.

Please note that users exporting a large number of PMAs to PDF format may experience slower download times due to the large file size.

2. After filtering, check that the PMA Table contains **only** PMAs that are intended to be included in the PDF spreadsheet export.

In the example below (Figure 26), filters have been applied in the “Filters” menu so that only five PMAs are shown as results in the PMA Table.

The screenshot shows a web interface titled "All Projects / Management Actions". It features a table of PMAs and a "Filters" sidebar on the right. A yellow box highlights the filters sidebar, which includes sections for "By Basin" (selected as "SOUTH AMERICAN"), "By GSP", "By Lead GSA", "By Other GSA", "By Project or Management Action", "By PMA Type", and "By PMA ID". A yellow box also highlights the PMA table, which contains five rows of data. The table columns are: PMA Name / Description, Lead GSA, GSPN, Status, and Last Updated. The rows are: "Demo PMA - School Outreach Program", "Demo PMA - Recharge Basin 2", "Demo PMA - Arundo Removal Program", "Demo PMA - Agriculture Outreach Program", and "Demo PMA - Recharge Basin".

PMA Name / Description	Lead GSA	GSPN	Status	Last Updated
Demo PMA - School Outreach Program The School Outreach Program will consist of a program to bring interactive groundwater education to local schools through classroom visits and field trips to recharge sites. Students learn how groundwater works, why it matters, and how to protect it. The program builds environmental awareness to the ...	Orochimene-Hornet Water District GSA - South American County of Sacramento GSA - South American	5-021-88 SOUTH-AMERICAN	Submitted	04/30/2025 07:22:40
Demo PMA - Recharge Basin 2 Located in XXXXX County, the XXXXX River Confluence Use Recharge Project optimizes surface and groundwater resources through integrated water management. During wet seasons, excess flows from the XXXXX River are directed into two large recharge basins, allowing water to percolate and replenish the ...	County of Sacramento GSA - South American Orochimene-Hornet Water District GSA - South American	5-021-88 SOUTH-AMERICAN	Submitted	04/30/2025 03:32:29
Demo PMA - Arundo Removal Program The Riparian Recovery Initiative targets the removal of invasive Arundo dense along local waterways to restore native habitats and improve water flow. Removal methods include mechanical removal, targeted herbicide application, and community volunteer efforts. The program reduces wildlife risks, and ...	Shingoose Resource Conservation District GSA - South American 1 County of Sacramento GSA - South American	5-021-88 SOUTH-AMERICAN	Submitted	04/30/2025 01:48:30
Demo PMA - Agriculture Outreach Program The Agriculture Water Efficiency Program partners with local farmers to promote sustainable irrigation practices through workshops, on-farm demonstrations, and technical support. Focused on reducing water waste and improving crop yields, the program builds community awareness, fosters conservation, ...	County of Sacramento GSA - South American	5-021-88 SOUTH-AMERICAN	Submitted	04/30/2025 06:48:57
Demo PMA - Recharge Basin The XXXXX Recharge Basin Project is planned in the XXXXX River and plans to capture stormwater during wet years, helping combat regional water scarcity. Native plants and monitoring systems support ecological health and ensure long-term sustainability of local water resources.	County of Sacramento GSA - South American	5-021-88 SOUTH-AMERICAN	Ongoing	04/30/2025 06:47:58

Figure 26. A screenshot of the All Projects/Management Actions page. The “Filters” drop-down menu with selected filters is highlighted for Step 1. The PMA table, which has been filtered to include only PMAs that will be included in the PDF export, is highlighted for Step 2. In this example, 5 PMAs are shown as results on the PMA Table.



3. Click the “PMA Export – PDF” button, located at the top left side of the PMA Table. The download of the PDF export file will be initiated.

In the example below (Figure 27), all Base Information data from the five PMAs shown in the PMA Table will be exported to a PDF.

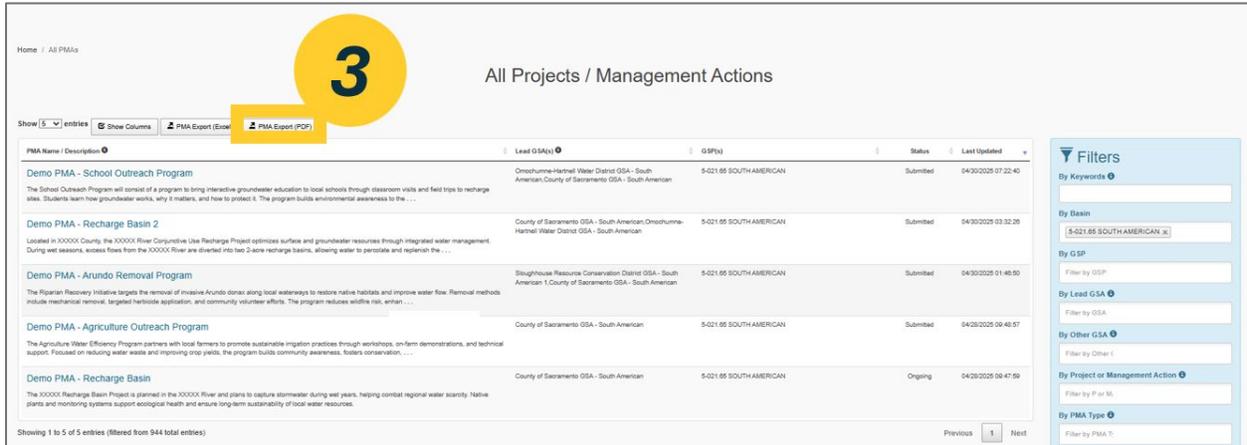


Figure 27. A screenshot highlighting the “PMA Export (PDF)” button.

4. The exported file will be a single PDF document with each PMA’s details on separate, consecutive pages.

In the example below (Figure 28), five PMAs were exported into a single PDF document.

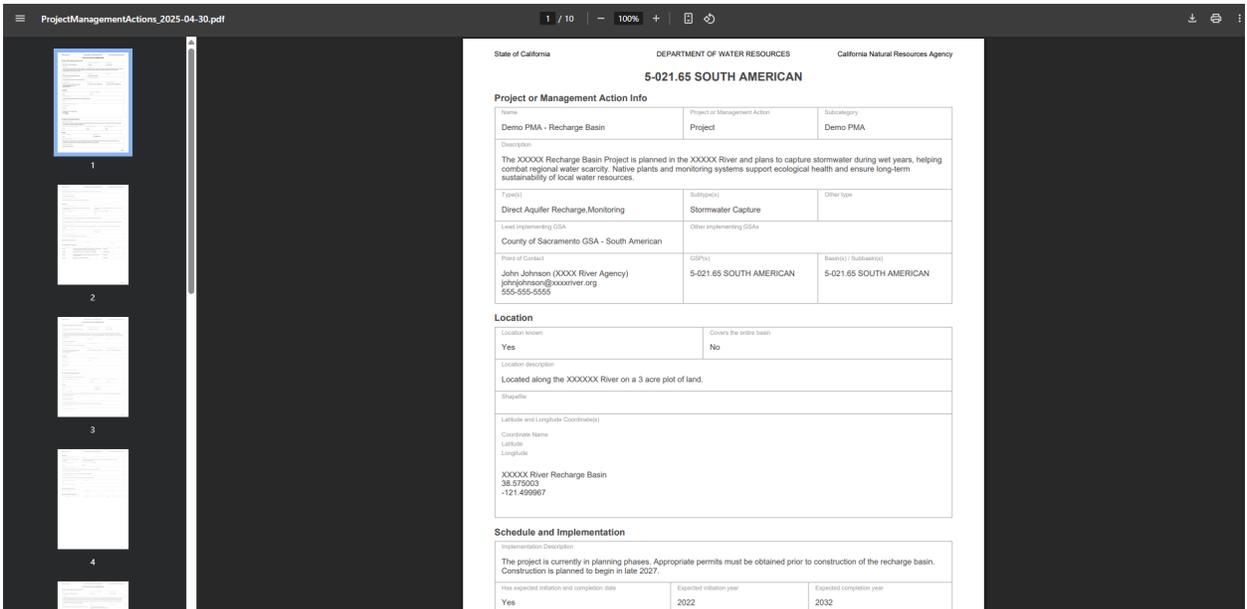


Figure 28. A screenshot of the resulting PDF file export.



8. Troubleshooting

If any part of the PMA Module does not load correctly on your web browser, try refreshing the page. If refreshing does not resolve the issue, adjust the browser's zoom level. The formatting of the display can vary depending on screen resolution and browser settings. Resetting the zoom level to 100% or toggling between zoom levels may help to correct the display.

Most web browsers allow the user to adjust the zoom level by using the following keyboard shortcuts:

- Ctrl + (+) to zoom in
- Ctrl + (-) to zoom out
- Ctrl + 0 to reset the zoom level to 100%.

After changing the zoom level, refresh the page to allow the PMA Module display to apply the changes.

If you continue to experience issues, please contact SGMPS@water.ca.gov for assistance.

