CHTDB User Manual

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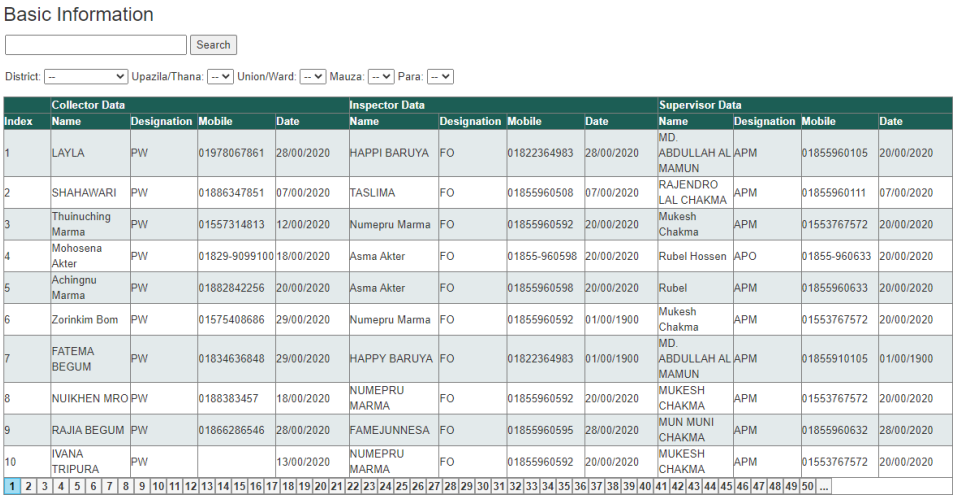
Contents

1 Query Module

1.1 S1: Basic Info

This page displays basic information regarding collectors, inspectors and supervisors for each case. The table displays the following fields of data for each of them:

- Name
- Designation
- Mobile
- Date



	Collector Data				Inspector Data				Supervisor Data			
Index	Name	Designation	Mobile	Date	Name	Designation	Mobile	Date	Name	Designation	Mobile	Date
1	LAYLA	PW	01978067861	28/00/2020	HAPPI BARUYA	FO	01822364983	28/00/2020	MD. ABDULLAH AL MAMUN	APM	01855960105	20/00/2020
2	SHAHAWARI	PW	01886347851	07/00/2020	TASLIMA	FO	01855960508	07/00/2020	RAJENDRO LAL CHAKMA	APM	01855960111	07/00/2020
3	Thuinuching Marma	PW	01557314813	12/00/2020	Numepru Marma	FO	01855960592	20/00/2020	Mukesh Chakma	APM	01553767572	20/00/2020
4	Mohosena Akter	PW	01829-9099100	18/00/2020	Asma Akter	FO	01855-960598	20/00/2020	Rubel Hossen	APO	01855-960633	20/00/2020
5	Achingnu Marma	PW	01882842256	20/00/2020	Asma Akter	FO	01855960598	20/00/2020	Rubel	APM	01855960633	20/00/2020
6	Zorinkim Bom	PW	01575408686	29/00/2020	Numepru Marma	FO	01855960592	01/00/1900	Mukesh Chakma	APM	01553767572	20/00/2020
7	FATEMA BEGUM	PW	01834636848	29/00/2020	HAPPY BARUYA	FO	01822364983	01/00/1900	MD. ABDULLAH AL MAMUN	APM	01855910105	01/00/1900
8	NUIKHEN MRO	PW	0188383457	18/00/2020	NUMEPRU MARMA	FO	01855960592	20/00/2020	MUKESH CHAKMA	APM	01553767572	20/00/2020
9	RAJIA BEGUM	PW	01866286546	28/00/2020	FAMEJUNNESA	FO	01855960595	28/00/2020	MUN MUNI CHAKMA	APM	01855960632	28/00/2020
10	IVANA TRIPURA	PW		13/00/2020	NUMEPRU MARMA	FO	01855960592	20/00/2020	MUKESH CHAKMA	APM	01553767572	20/00/2020

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 ...

Figure 1.1 Basic Information Data Table

A search bar can be seen on the top of the page which allows a user to search the records using Case Ids.

There are also several filters available for use between the search bar and the table. These allow a user to filter the data by:

- District
- Upazila/Thana
- Union/Ward
- Mauza
- Para

These filters each depend on the filters to their left. So each filter will only show a list of options when an adjacent filter to its left has been applied. Once a selection is made on the dropdowns to the left of a filter, it would display a list of regions within the currently selected regions. This keeps the dropdown list short and easier to use.

1.2 S2: Types of Water Source

This page displays a table showing the count of selected types of water sources grouped by selected boundaries.

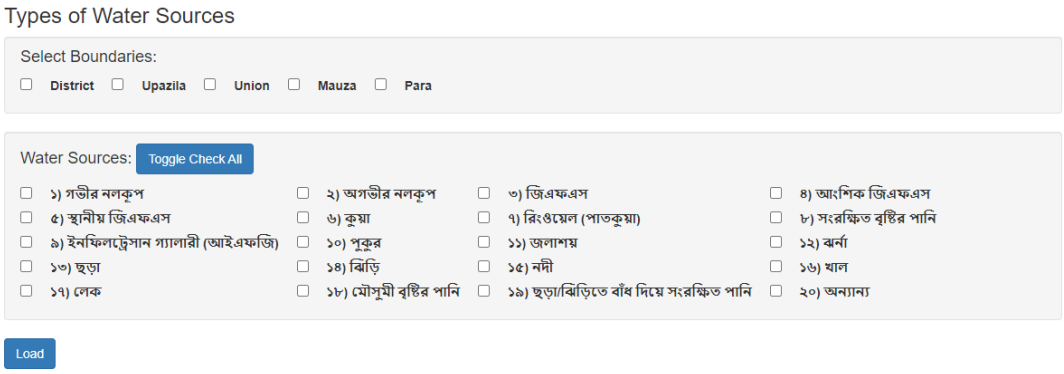


Figure 1.2 Types of Water Sources Checkboxes

Several checkboxes can be seen on this page. They are displayed in two separate groups:

- Boundaries
- Water Sources

The first group of checkboxes are the boundaries. These checkboxes allow a user to specify what kind of regional grouping they want when they access the data from the database.

The second group of checkboxes are the water sources. These checkboxes allow the user to select which types of water sources they want to know the count of when retrieving the data from the database. As there are 20 options, selecting all of which can be a tedious task, a “Toggle Check All” button has been added to this group. This allows a user to toggle between having all of the checkboxes checked in the list and none at all.

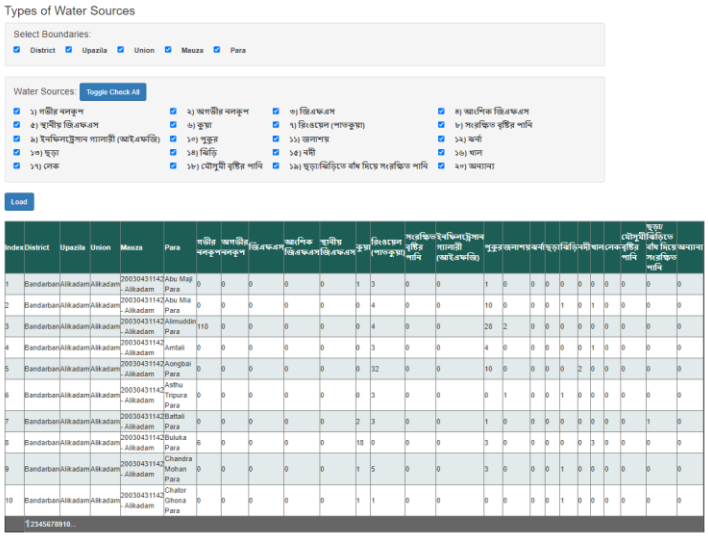


Figure 1.3 Types of Water Sources Data Table

To load the data, the user must click on the “Load” button after having finished filling up the checkbox forms above. Keep in mind, the user will not be able to access any data before at least one checkbox is filled from both groups. Failing to do so, will display an error at the bottom of the screen reminding the user to select at least one boundary and one water source.

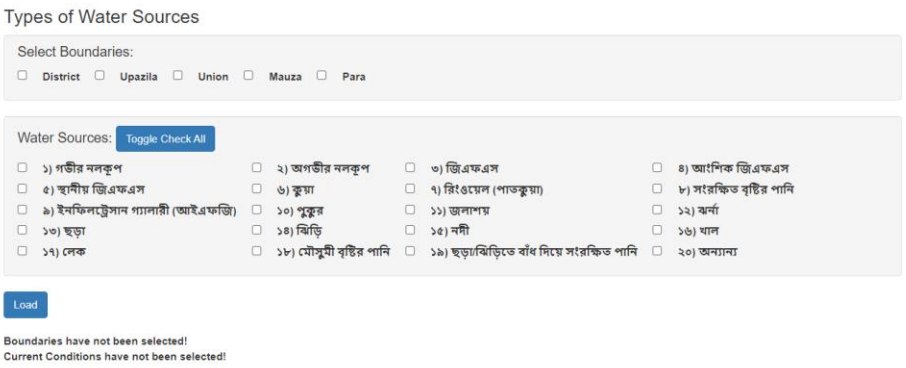


Figure 1.4 Types of Water Sources Error on No Selections

1.3 S3, S4, S5 Jhorna Chhara Jhiri Info

This page displays different kinds of data regarding the Jhorna, Chhara and Jhiris in each region.

The first input seen in the form is a dropdown list containing the kinds of data that the user may access using this page. The dropdown contains the following types of data:

- Reasons for the Water Source becoming Seasonal from Perennial
- Ways to make the Water Source Perennial
- Reasons for the Water Source Being Dead.
- Ways to Revive the Water Source
- Amount of Water Flow in Dry Seasons
- Amount of Water Flow in Monsoon
- Quality of Water from the Water Source
- Usage of Water from the Water Source
- Reasons for a Water Source Being Unstable
- Ways to make the Water Source Accessible/Usable
- Possibility of Usage of the Water Source
- Landslides around the Water Source
- Reasons for Landslides
- Types of Sediment
- Situation of Sediment in the Water Source
- Magnitude of Breakage on the edge of the Water Source
- Existence of Breakage on the edge of the Water Source
- Additional Information Regarding the Jhiri

Each of these options can generate a different table containing a different kind of data related to the option. But before a user can actually see the data there are more options that the user must select to define what kind of table the user wants from the system.

All of the options listed above have the same boundaries options listed in a checkbox. The user must specify at least one of these boundaries and therefore can group the accessed data using the boundary grouping.

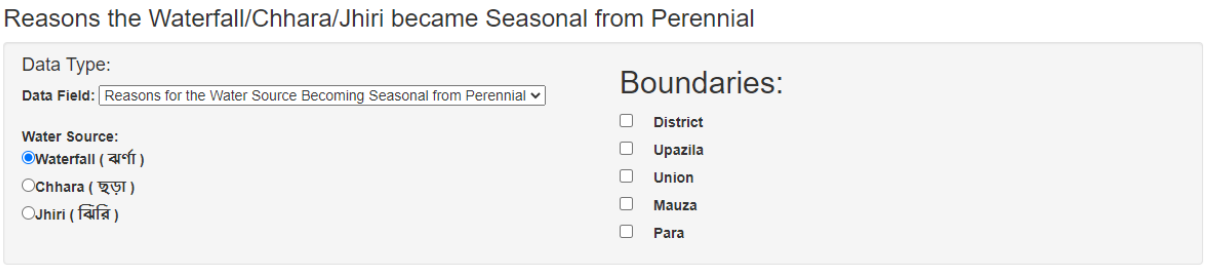


Figure 1.5 Data Type, Water Source and Boundary options

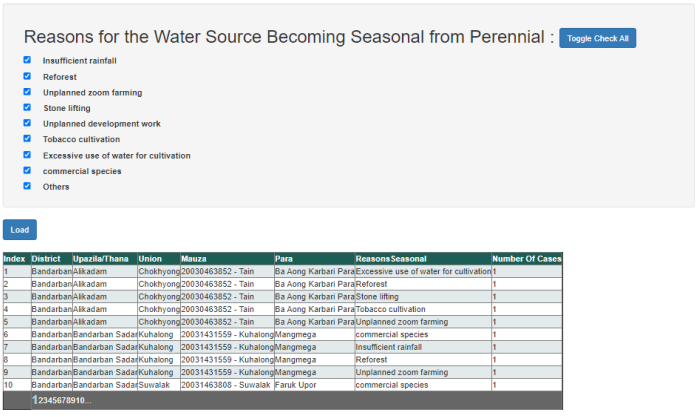
We can also see a radio button list of water sources containing the following options:

- Waterfall
- Chhara
- Jhiri

This option defines which water source we are extracting the data for. The list may vary based on the selection made by the user on the data field dropdown list but will always contain options from among the three mentioned above. These variations along with more information regarding these options are mentioned below in the sections 1.3.1 to 1.3.18.

1.3.1 Reasons for the Water Source Becoming Seasonal from Perennial

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	ReasonsSeasonal	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Excessive use of water for cultivation	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Reforest	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Stone lifting	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Tobacco cultivation	1
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Unplanned zoom farming	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	commercial species	1
7	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Insufficient rainfall	1
8	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Reforest	1
9	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Unplanned zoom farming	1
10	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	commercial species	1

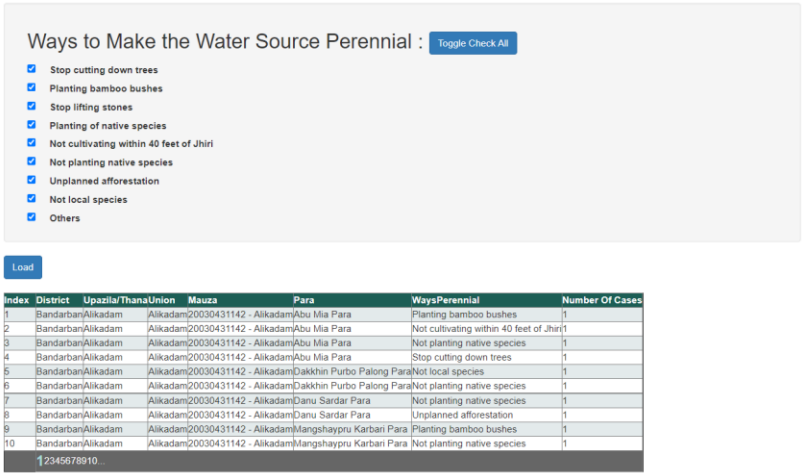
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.6 Boundary wise data listing count of cases for each reason for the waterfall becoming seasonal from perennial

The bottom section should now display a list of reasons for the water source becoming seasonal from perennial. Selecting the reasons would allow the data extraction from the database to add rows for each reason and show a count of the number of cases for which the corresponding reason was the reason specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.6.

1.3.2 Ways to make the Water Source Perennial

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	WaysPerennial	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Planting bamboo bushes	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Not cultivating within 40 feet of Jhiri	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Not planting native species	1
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Stop cutting down trees	1
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Dakkhin Purbo Palong Para	Not local species	1
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Dakkhin Purbo Palong Para	Not planting native species	1
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sardar Para	Not planting native species	1
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sardar Para	Unplanned afforestation	1
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mangshaypru Karbari Para	Planting bamboo bushes	1
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mangshaypru Karbari Para	Not planting native species	1

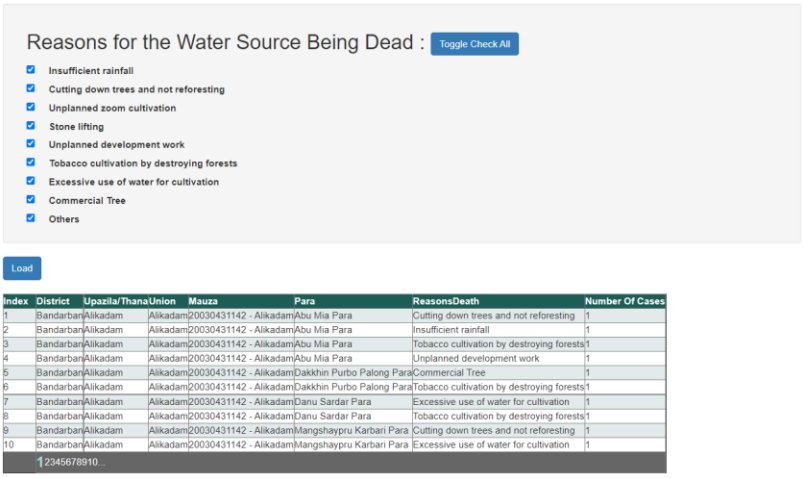
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.7 Boundary wise data listing count for each way to make each water source perennial

The bottom section should now display a list of ways to make the water source perennial. Selecting the ways would allow the data extraction from the database to add rows for each way and show a count of the number of cases for which the corresponding way was the way specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.7.

1.3.3 Reasons for the Water Source Being Dead

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	ReasonsDeath	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Cutting down trees and not reforesting	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Insufficient rainfall	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Tobacco cultivation by destroying forests	1
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Unplanned development work	1
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Dakkhin Purbo Palong Para	Commercial Tree	1
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Dakkhin Purbo Palong Para	Tobacco cultivation by destroying forests	1
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sardar Para	Excessive use of water for cultivation	1
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sardar Para	Tobacco cultivation by destroying forests	1
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mangshaypru Karbari Para	Cutting down trees and not reforesting	1
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mangshaypru Karbari Para	Excessive use of water for cultivation	1

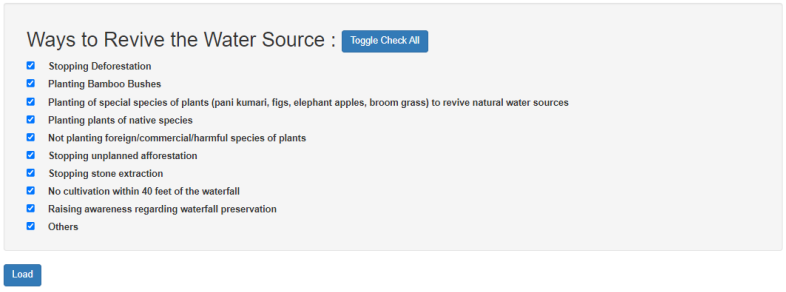
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.8 Boundary wise data listing count of cases for each reason for the water source being dead

The bottom section should now display a list of reasons for the water source being dead. Selecting the reasons would allow the data extraction from the database to add rows for each reason and show a count of the number of cases for which the corresponding reason was the reason specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.8.

1.3.4 Ways to Revive the Water Source

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	WaysToRevive	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Planting Bamboo Bushes	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Planting of special species of plants (pani kumari, figs, elephant apples, broom grass) to revive natural water sources	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Planting plants of native species	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Stopping stone extraction	1
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Stopping unplanned afforestation	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No cultivation within 40 feet of the waterfall	1
7	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Planting Bamboo Bushes	1
8	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Planting of special species of plants (pani kumari, figs, elephant apples, broom grass) to revive natural water sources	1
9	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Stopping Deforestation	1
10	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No cultivation within 40 feet of the waterfall	1

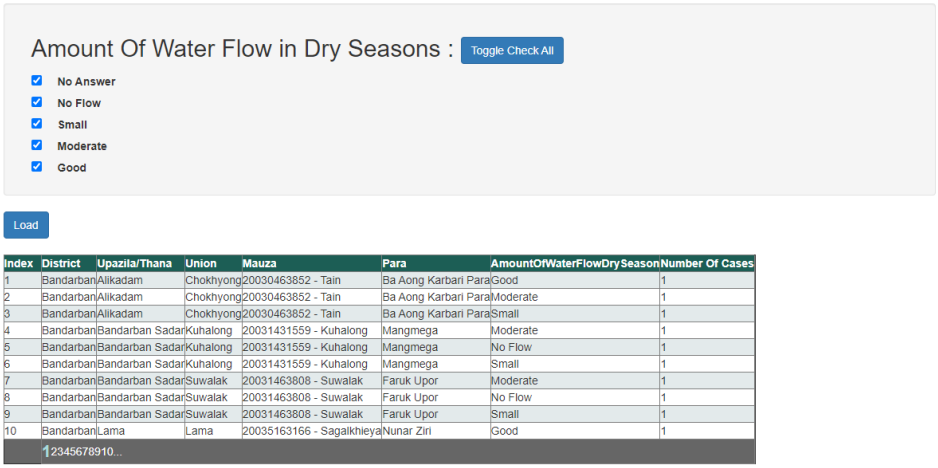
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.9 Boundary wise data listing count for each way to revive each water source

The bottom section should now display a list of ways to revive the water source. Selecting the ways would allow the data extraction from the database to add rows for each way and show a count of the number of cases for which the corresponding way was the way specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.9.

1.3.5 Amount of Water Flow in Dry Seasons

Selecting this data field keeps only two water sources (Waterfall and Chhara) in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	AmountOfWaterFlowDrySeason	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Good	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Moderate	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Small	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Moderate	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No Flow	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Small	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Moderate	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No Flow	1
9	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Small	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhiya	Nunar Ziri	Good	1

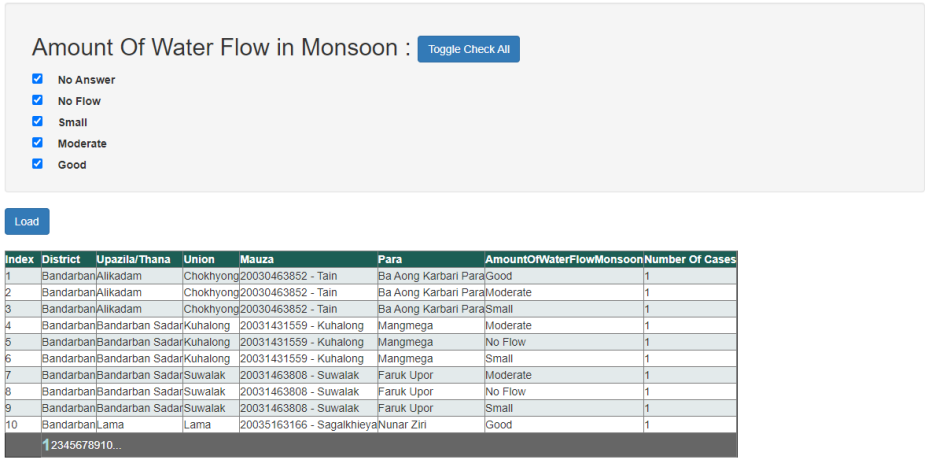
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.10 Boundary wise data listing count for the water source grouped by water flow amount in dry seasons.

The bottom section should now display a list of different categories of amounts of water flow including the option of “No Answer”. Selecting the amounts would allow the data extraction from the database to add rows for each category of amount and show a count of the number of cases for which the corresponding amount was the amount specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.10.

1.3.6 Amount of Water Flow in Monsoon

Selecting this data field keeps only two water sources (Waterfall and Chhara) in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	AmountOfWaterFlowMonsoon	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Good	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Moderate	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Small	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Moderate	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No Flow	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Small	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Moderate	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No Flow	1
9	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Small	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	Good	1

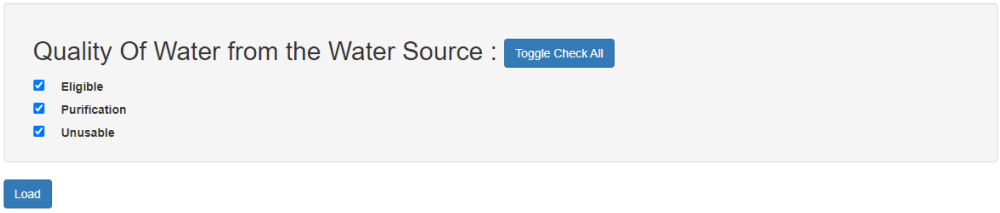
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.11 Boundary wise data listing count for the water source grouped by water flow amount in monsoon.

The bottom section should now display a list of different categories of amounts of water flow including the option of “No Answer”. Selecting the amounts would allow the data extraction from the database to add rows for each category of amount and show a count of the number of cases for which the corresponding amount was the amount specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.11.

1.3.7 Quality of Water from the Water Source

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	WaterQuality	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Purification	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Unusable	1
3	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Eligible	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Purification	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Unusable	1
6	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Eligible	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Purification	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Unusable	1
9	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	Eligible	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	Purification	1

1 2 3 4 5 6 7 8 9 10 ...

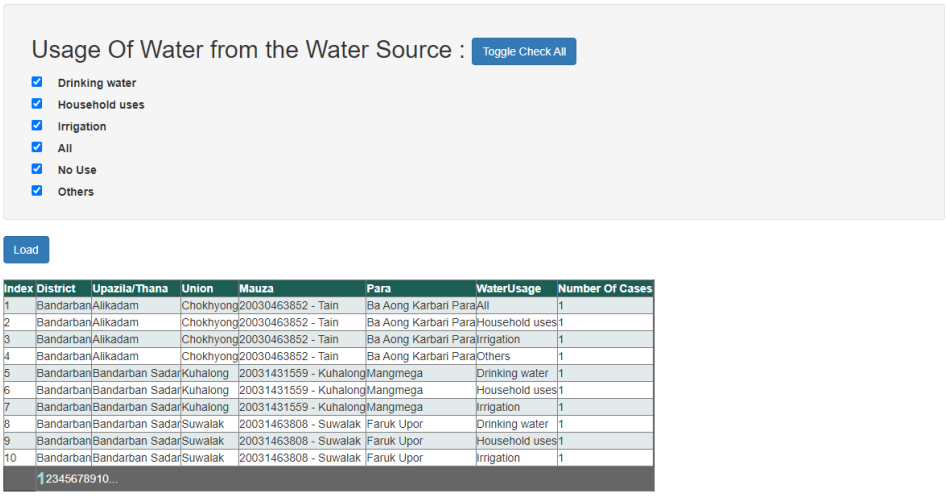
Figure 1.12 Boundary wise data listing count of water sources for each quality of water

The bottom section should now display a list of different categories of water quality. Selecting the qualities would allow the data extraction from the database to add rows for each category of quality and show a count of the number of cases for which the corresponding quality was the quality specified in the form during data submission. This data would be grouped by the

boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.12.

1.3.8 Usage of Water from the Water Source

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	WaterUsage	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	All	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Household uses	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Irrigation	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Others	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Drinking water	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Household uses	1
7	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Irrigation	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Drinking water	1
9	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Household uses	1
10	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Irrigation	1

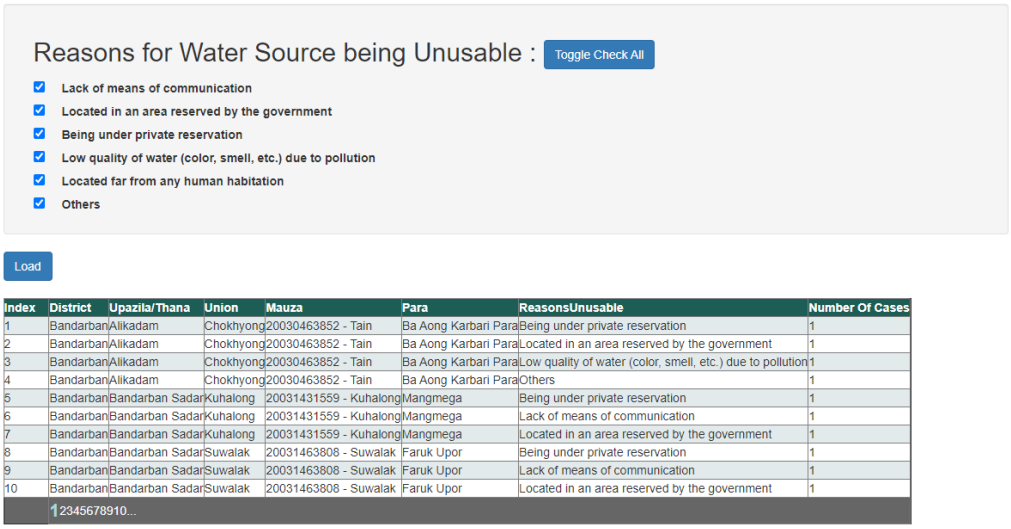
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.13 Boundary wise data listing count of water sources for each category of water usage

The bottom section should now display a list of different categories of water usage. Selecting the usages would allow the data extraction from the database to add rows for each category of usage and show a count of the number of cases for which the corresponding usage was the usage specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.13.

1.3.9 Reasons for a Water Source Being Unstable

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	ReasonsUnusable	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Being under private reservation	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Located in an area reserved by the government	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Low quality of water (color, smell, etc.) due to pollution	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Others	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Being under private reservation	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Lack of means of communication	1
7	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Located in an area reserved by the government	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Being under private reservation	1
9	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Lack of means of communication	1
10	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Located in an area reserved by the government	1

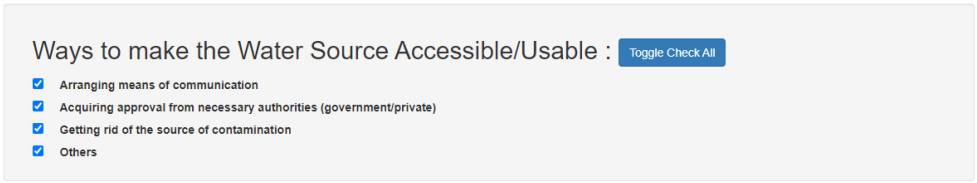
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.14 Boundary wise data listing count of water sources for each category of reasons for the water source being unusable

The bottom section should now display a list of different reasons for the water source having become unusable. Selecting the reasons would allow the data extraction from the database to add rows for each row of usage and show a count of the number of cases for which the corresponding reason was the reason specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.14.

1.3.10 Ways to make the Water Source Accessible/Usable

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	WaysToMakeUsable	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Acquiring approval from necessary authorities (government/private)	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Getting rid of the source of contamination	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Others	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Acquiring approval from necessary authorities (government/private)	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Arranging means of communication	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Getting rid of the source of contamination	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Acquiring approval from necessary authorities (government/private)	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Arranging means of communication	1
9	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Getting rid of the source of contamination	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	Acquiring approval from necessary authorities (government/private)	1

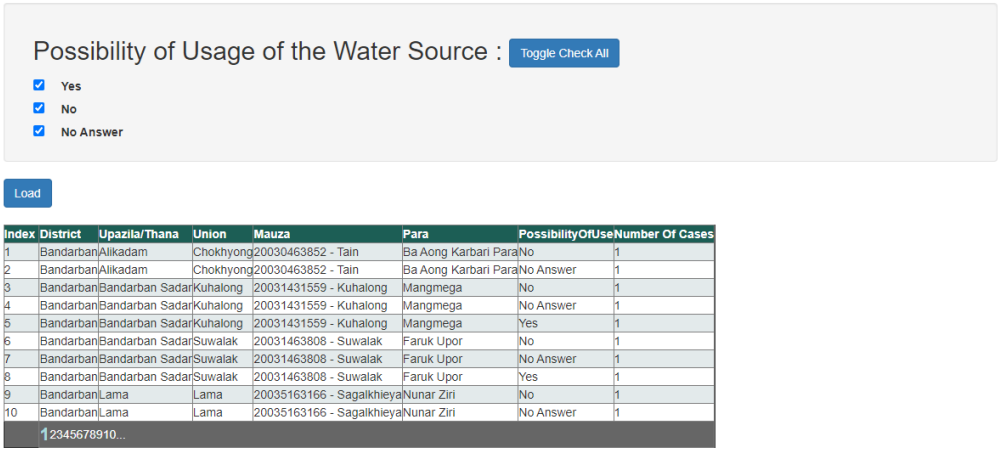
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.15 Boundary wise data listing count for each way to make the water source accessible/usable

The bottom section should now display a list of ways to revive the water source. Selecting the ways would allow the data extraction from the database to add rows for each way and show a count of the number of cases for which the corresponding way was the way specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.15.

1.3.11 Possibility of Usage of the Water Source

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	PossibilityOfUse	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	No	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	No Answer	1
3	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No Answer	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Yes	1
6	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No Answer	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Yes	1
9	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	No	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	No Answer	1

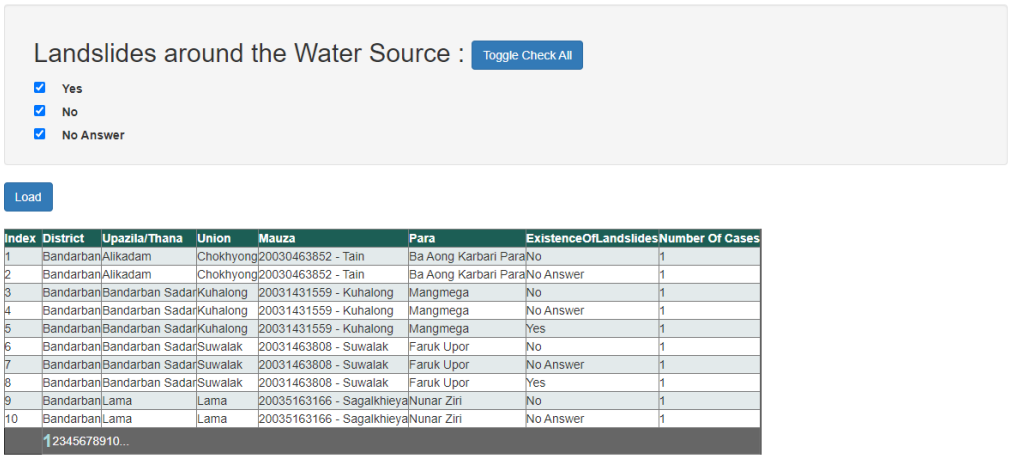
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.16 Boundary wise data listing count of water sources for the categories of possibilities of water usage

The bottom section should now display a list of different categories of possibilities of water usage, including the option of “No Answer”. Selecting the usages would allow the data extraction from the database to add rows for each category of possibilities and show a count of the number of cases for which the corresponding possibility was the possibility specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.16.

1.3.12 Landslides around the Water Source

Selecting this data field keeps only two water sources (Waterfall and Jhiri) in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	ExistenceOfLandslides	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	No	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	No Answer	1
3	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No	1
4	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	No Answer	1
5	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Yes	1
6	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No	1
7	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	No Answer	1
8	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Yes	1
9	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	No	1
10	Bandarban	Lama	Lama	20035163166 - Sagalkhieya	Nunar Ziri	No Answer	1

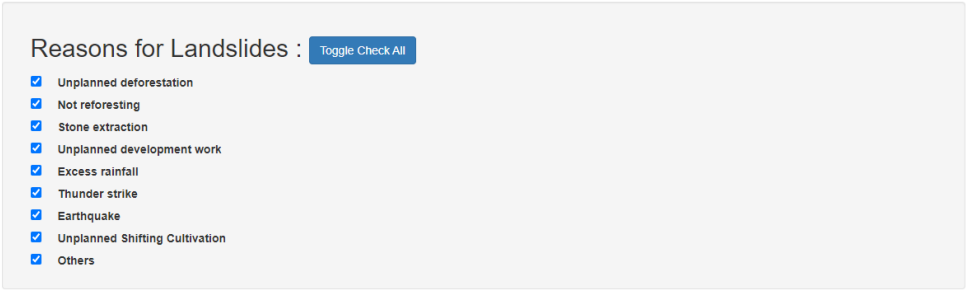
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.17 Boundary wise data listing count of water sources around which landslides exist, don't exist or no information has been provided regarding the existence of any landslides

The bottom section should now display a list of different categories of existence of landslides around the water source, including the option of "No Answer". Selecting the options would allow the data extraction from the database to add rows for each option and show a count of the number of cases for which the corresponding option was the option specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.17.

1.3.13 Reasons for Landslides

Selecting this data field keeps all three water sources in a radio button list that must have exactly one option selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	ReasonsForLandslides	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Earthquake	1
2	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Not reforesting	1
3	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Stone extraction	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Thunder strike	1
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Ba Aong Karbari Para	Unplanned development work	1
6	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Not reforesting	1
7	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Stone extraction	1
8	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Unplanned deforestation	1
9	Bandarban	Bandarban Sadar	Kuhalong	20031431559 - Kuhalong	Mangmega	Unplanned Shifting Cultivation	1
10	Bandarban	Bandarban Sadar	Suwalak	20031463808 - Suwalak	Faruk Upor	Not reforesting	1

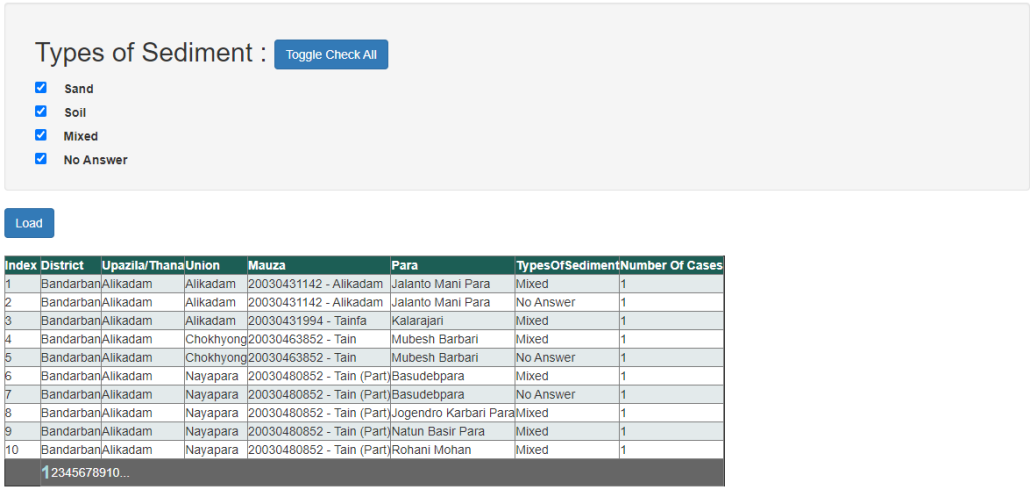
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.18 Boundary wise data listing count of cases for each reason for landslides around the water source

The bottom section should now display a list of reasons for the existence of landslides around the water source. Selecting the reasons would allow the data extraction from the database to add rows for each reason and show a count of the number of cases for which the corresponding reason was the reason specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.18.

1.3.14 Types of Sediment

Selecting this data field keeps only one water source (Chhara) in a radio button list that must remain selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	TypesOfSediment	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	Mixed	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	No Answer	1
3	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Kalarajari	Mixed	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	Mixed	1
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	No Answer	1
6	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	Mixed	1
7	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	No Answer	1
8	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	Mixed	1
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Natun Basir Para	Mixed	1
10	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Rohani Mohan	Mixed	1

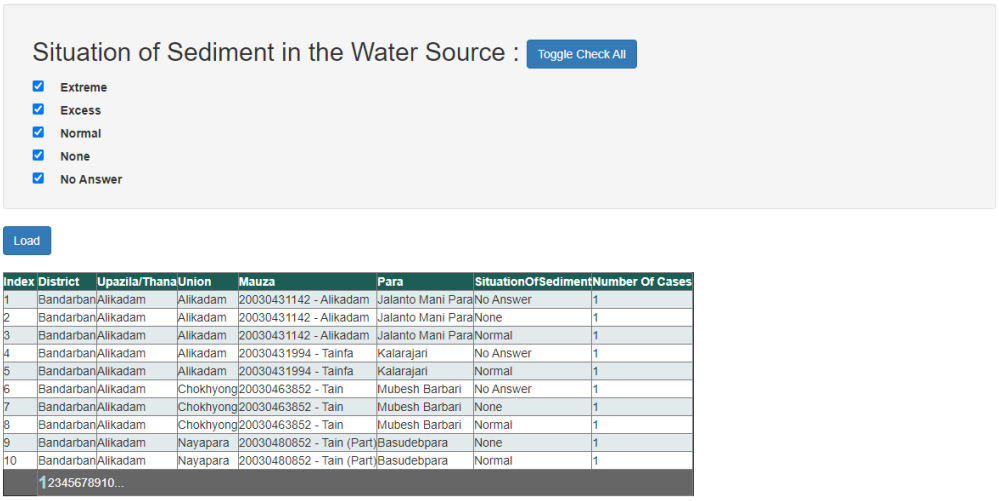
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.19 Boundary wise data listing count of cases for each type of sediment deposited in the water source

The bottom section should now display a list of reasons for the type of sediment deposited in the water source. Selecting the reasons would allow the data extraction from the database to add rows for each reason and show a count of the number of cases for which the corresponding reason was the reason specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.19.

1.3.15 Situation of Sediment in the Water Source

Selecting this data field keeps only one water source (Chhara) in a radio button list that must remain selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	SituationOfSediment	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	No Answer	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	None	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	Normal	1
4	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Kalarajari	No Answer	1
5	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Kalarajari	Normal	1
6	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	No Answer	1
7	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	None	1
8	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	Normal	1
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	None	1
10	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	Normal	1

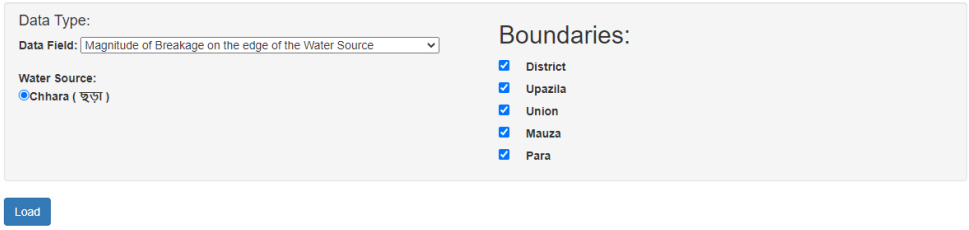
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.20 Boundary wise data listing count of cases for each category of situation of sediment in the water source

The bottom section should now display a list of situations for the sediment deposited in the water source. Selecting the reasons would allow the data extraction from the database to add rows for each situation and show a count of the number of cases for which the corresponding situation was the situation specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.20.

1.3.16 Magnitude of Breakage on the edge of the Water Source

Selecting this data field keeps only one water source (Chhara) in a radio button list that must remain selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	Data
1	Bandarban	Lama	Fasyakhali	20035131442 - Fasyakhali	Sotosan Khola	1
2	Bandarban	Lama	Fasyakhali	20035131442 - Fasyakhali	Sotosan Khola	7
3	Bandarban	Lama	Fasyakhali	20035131442 - Fasyakhali	Sotosan Khola	8
4	Bandarban	Thanchi	Thanchi	20039557090 - Khowakhyong	Oyak Chakku Para	6
5	Bandarban	Thanchi	Thanchi	20039557090 - Khowakhyong	Oyak Chakku Para	8
6	Rangamati	Kawkhali (Betbunia)	Kalampati	20842576696 - Kalampati	Hatimara	1
7	Rangamati	Kawkhali (Betbunia)	Kalampati	20842576696 - Kalampati	Hatimara	2
8	Rangamati	Belai Chhari Upazi	Farua	20842947980 - Rainkhong R.F.	Orachhari Uttar Para	1
9	Rangamati	Belai Chhari Upazi	Farua	20842947980 - Rainkhong R.F.	Orachhari Uttar Para	2
10	Rangamati	Belai Chhari Upazi	Farua	20842947980 - Rainkhong R.F.	Orachhari Uttar Para	3

1 2 3 4 5 6 7 8 9 10 ...

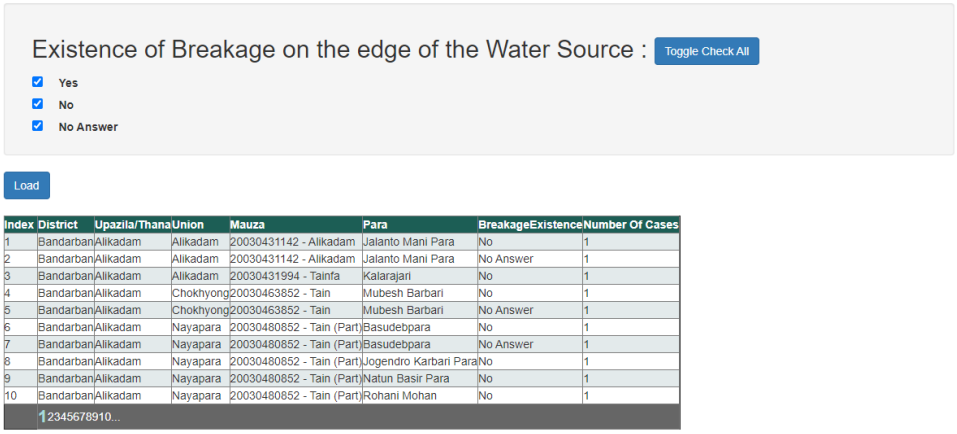
Figure 1.21 Boundary wise data listing magnitude of breakage on the edge of the water source

There are no other options to select at this point for this option on the dropdown. Just clicking on the “Load” button would be enough to generate a table of data listing the magnitude of breakage

on the edge of the water source grouped by boundaries. A sample of the data is shown above on Figure 1.21.

1.3.17 Existence of Breakage on the edge of the Water Source

Selecting this data field keeps only one water source (Chhara) in a radio button list that must remain selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	BreakageExistence	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	No	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jalanto Mani Para	No Answer	1
3	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Kalarajari	No	1
4	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	No	1
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Mubesh Barbari	No Answer	1
6	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	No	1
7	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Basudebpara	No Answer	1
8	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	No	1
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Natun Basir Para	No	1
10	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Rohani Mohan	No	1

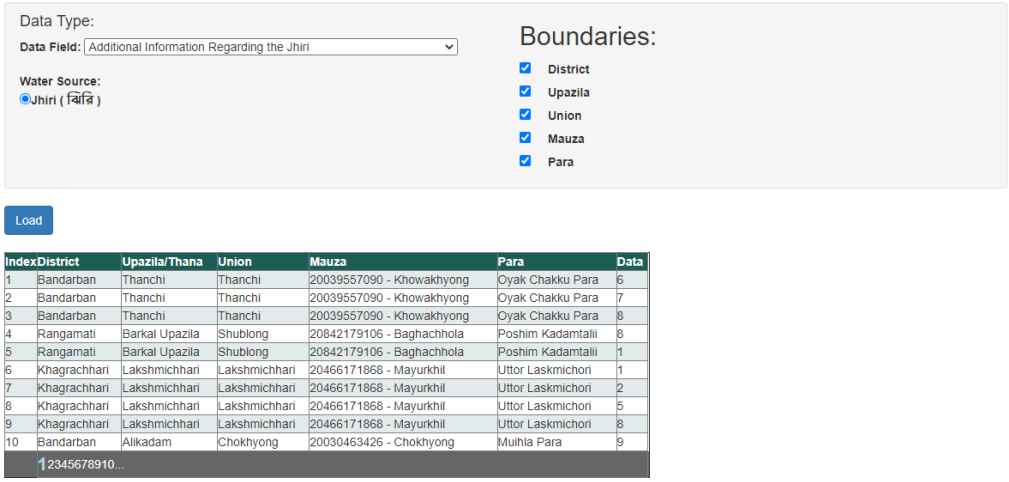
1 2 3 4 5 6 7 8 9 10 ...

Figure 1.22 Boundary wise data listing count of water sources for each category of existence of breakage on the edge of the water source

The bottom section should now display the three options “Yes”, “No” and “No Answer”. Selecting the options would allow the data extraction from the database to add rows for each option and show a count of the number of cases for which the corresponding option was the option specified in the form during data submission. This data would be grouped by the boundaries that were selected by the user earlier. A sample of the data is shown above on Figure 1.22.

1.3.18 Additional Information Regarding the Jhiri

Selecting this data field keeps only one water source (Jhiri) in a radio button list that must remain selected before loading the data.



Index	District	Upazila/Thana	Union	Mauza	Para	Data
1	Bandarban	Thanchi	Thanchi	20039557090 - Khowakhyong	Oyak Chakku Para	6
2	Bandarban	Thanchi	Thanchi	20039557090 - Khowakhyong	Oyak Chakku Para	7
3	Bandarban	Thanchi	Thanchi	20039557090 - Khowakhyong	Oyak Chakku Para	8
4	Rangamati	Barkal Upazila	Shublong	20842179106 - Baghachhola	Poshim Kadamtalii	8
5	Rangamati	Barkal Upazila	Shublong	20842179106 - Baghachhola	Poshim Kadamtalii	1
6	Khagrachhari	Lakshmichhari	Lakshmichhari	20466171868 - Mayurkhil	Uttor Laskmichori	1
7	Khagrachhari	Lakshmichhari	Lakshmichhari	20466171868 - Mayurkhil	Uttor Laskmichori	2
8	Khagrachhari	Lakshmichhari	Lakshmichhari	20466171868 - Mayurkhil	Uttor Laskmichori	5
9	Khagrachhari	Lakshmichhari	Lakshmichhari	20466171868 - Mayurkhil	Uttor Laskmichori	8
10	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Mulhla Para	9

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.23 Boundary wise data listing count of additional information regarding the water source

There are no other options to select at this point for this option on the dropdown. Just clicking on the “Load” button would be enough to generate a table of data listing the count of additional information regarding the water source grouped by boundaries. A sample of the data is shown above on Figure 1.23.

1.4 S6: Area Dependent on Jhorna / Chhara / Jhiri

This page displays different kinds of data regarding the areas dependent on Jhorna, Chhara and Jhiris in each region.

The first input seen in the form is a dropdown list containing the kinds of data that the user may access using this page. The dropdown contains the following types of data:

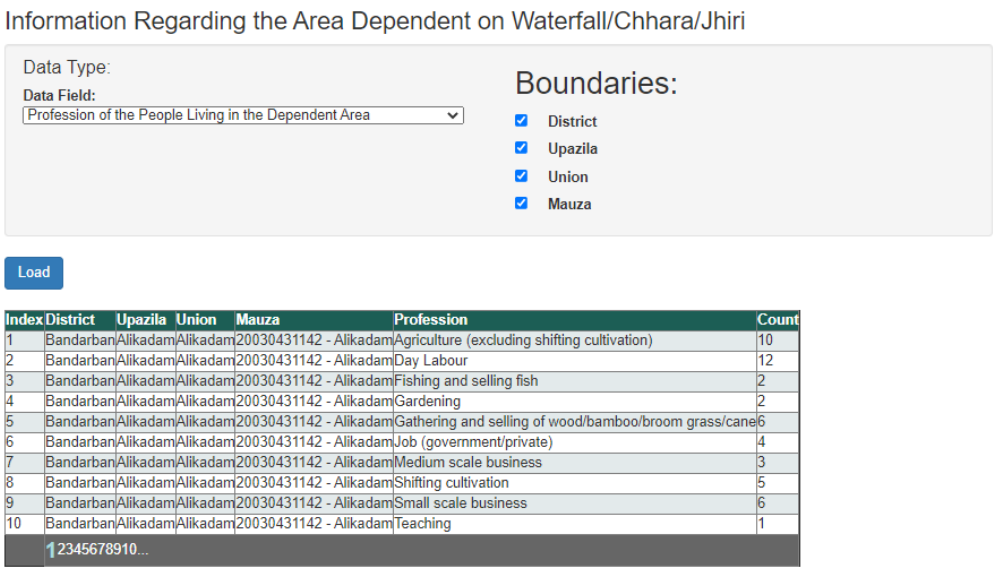
- Profession of the People Living in the Dependent Area
- Current Usage of Land with Approximate Amount (in acres)
- Agricultural Usage with Approximate Amount of Land
- Source of Irrigation
- Types of Trees in the Area
- Name of Trees
- Total Number of Families Dependent on the Waterfall/Chhara/Jhiri

Each of these options can load different types of data from the database. The table adapts based on the selected option and modifies the columns on the table accordingly.

There are checkboxes on the right for selecting boundaries as well. These can be used to group the data produced by separate regions.

1.4.1 Profession of the People Living in the Dependent Area

This page displays the count of people of each profession stored in the database grouped by the selected boundaries. An example of the data produced is provided on Figure 1.24.



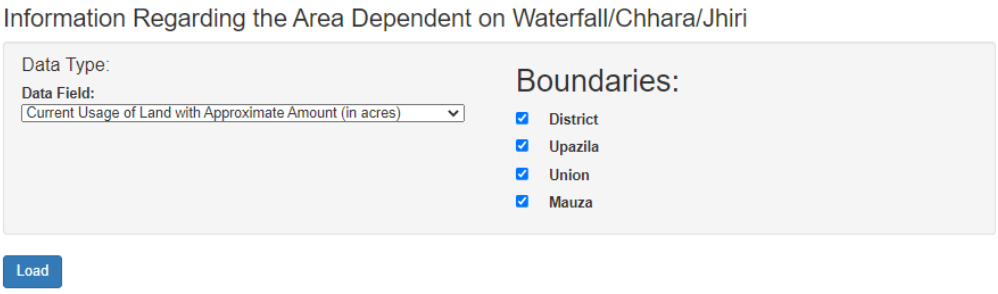
Index	District	Upazila	Union	Mauza	Profession	Count
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Agriculture (excluding shifting cultivation)	10
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Day Labour	12
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Fishing and selling fish	2
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Gardening	2
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Gathering and selling of wood/bamboo/broom grass/cane	6
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Job (government/private)	4
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Medium scale business	3
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Shifting cultivation	5
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Small scale business	6
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Teaching	1

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.24 Boundary wise data listing count of people from each profession in each selected region

1.4.2 Current Usage of Land with Approximate Amount (in acres)

This page displays the approximate amount of current usage of land (in acres) separated in columns for each purpose stored in the database, and grouped by the boundaries selected by the user. An example of the data produced is provided on Figure 1.25.



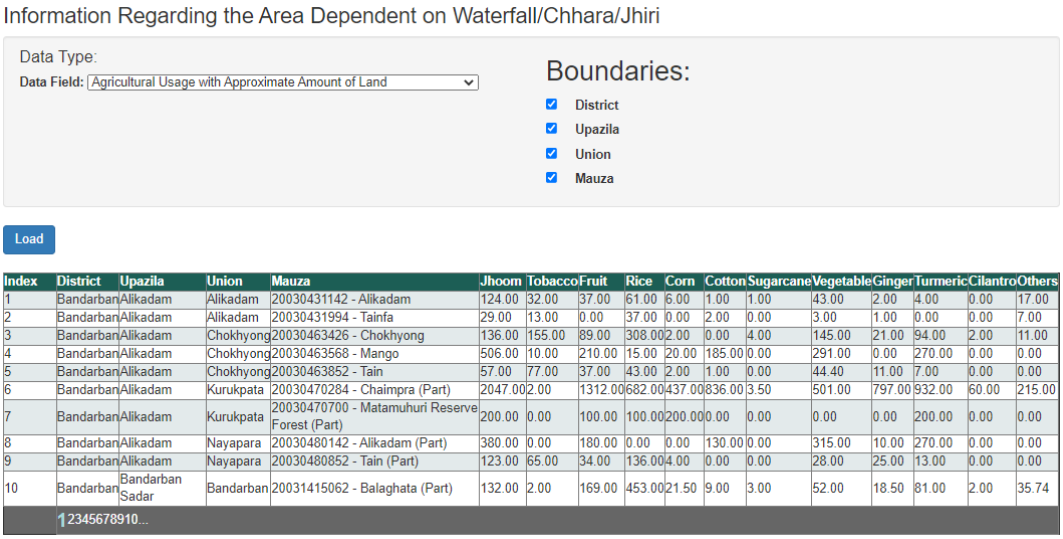
Index	District	Upazila	Union	Mauza	Agriculture (excluding Joom cultivation)	Reserve Forest Or Natural forest	Residence	Garden	Jhoom	Wood or fruit	Others
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	143.00	36.00	90.00	157.00	45.00	32.00	57.00
2	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	90.00	25.00	18.00	11.00	1.00	2.00	76.00
3	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	233.00	151.00	293.20	240.00	99.00	102.00	0.00
4	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	45.00	320.00	235.00	315.00	190.00	152.00	0.00
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	217.40	59.00	30.50	61.00	50.00	42.00	0.00
6	Bandarban	Alikadam	Kurukpata	20030470284 - Chaimpra (Part)	480.00	239.00	122.00	726.00	473.00	80.00	0.00
7	Bandarban	Alikadam	Kurukpata	20030470700 - Matamuhuri Reserve Forest (Part)	0.00	0.00	0.00	400.00	0.00	0.00	0.00
8	Bandarban	Alikadam	Nayapara	20030480142 - Alikadam (Part)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	122.00	50.00	115.00	89.00	82.00	17.00	0.00
10	Bandarban	Bandarban Sadar	Bandarban	20031415062 - Balaghata (Part)	107.00	25.00	163.00	186.00	121.00	144.00	7.00

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.25 Boundary wise data listing approximate current usage of land for seven purposes grouped by the boundaries

1.4.3 Agricultural Usage with Approximate Amount of Land

This page displays the approximate amount of land being used for agriculture, with each column separating the uses in terms of items being farmed, while each row is used to group the data by the boundaries selected by the user. An example of the data produced is provided on Figure 1.26.



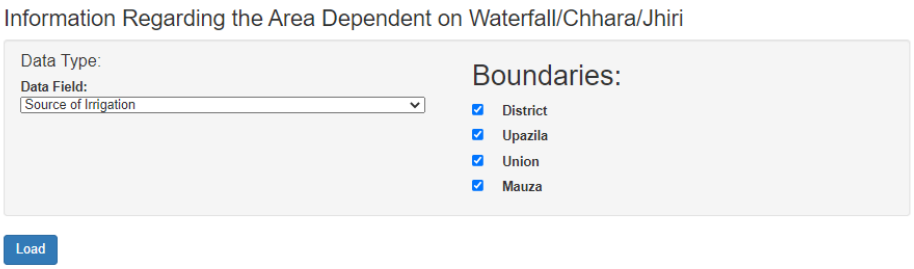
Index	District	Upazila	Union	Mauza	Jhoom	Tobacco	Fruit	Rice	Corn	Cotton	Sugarcane	Vegetable	Ginger	Turmeric	Cilantro	Others
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	124.00	32.00	37.00	61.00	6.00	1.00	1.00	43.00	2.00	4.00	0.00	17.00
2	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	29.00	13.00	0.00	37.00	0.00	2.00	0.00	3.00	1.00	0.00	0.00	7.00
3	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	136.00	155.00	89.00	308.00	2.00	0.00	4.00	145.00	21.00	94.00	2.00	11.00
4	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	506.00	10.00	210.00	15.00	20.00	185.00	0.00	291.00	0.00	270.00	0.00	0.00
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	57.00	77.00	37.00	43.00	2.00	1.00	0.00	44.40	11.00	7.00	0.00	0.00
6	Bandarban	Alikadam	Kurukpata	20030470284 - Chaimpra (Part)	2047.00	2.00	1312.00	682.00	437.00	836.00	3.50	501.00	797.00	932.00	60.00	215.00
7	Bandarban	Alikadam	Kurukpata	20030470700 - Matamuhuri Reserve Forest (Part)	200.00	0.00	100.00	100.00	200.00	0.00	0.00	0.00	0.00	200.00	0.00	0.00
8	Bandarban	Alikadam	Nayapara	20030480142 - Alikadam (Part)	380.00	0.00	180.00	0.00	0.00	130.00	0.00	315.00	10.00	270.00	0.00	0.00
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	123.00	65.00	34.00	136.00	4.00	0.00	0.00	28.00	25.00	13.00	0.00	0.00
10	Bandarban	Bandarban Sadar	Bandarban	20031415062 - Balaghata (Part)	132.00	2.00	169.00	453.00	21.50	9.00	3.00	52.00	18.50	81.00	2.00	35.74

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.26 Boundary wise data listing amount of agricultural usage of land for items farmed

1.4.4 Source of Irrigation

This page displays the number of irrigation sources in each region separated by the boundaries selected by the user. An example of the data produced is provided on Figure 1.27.



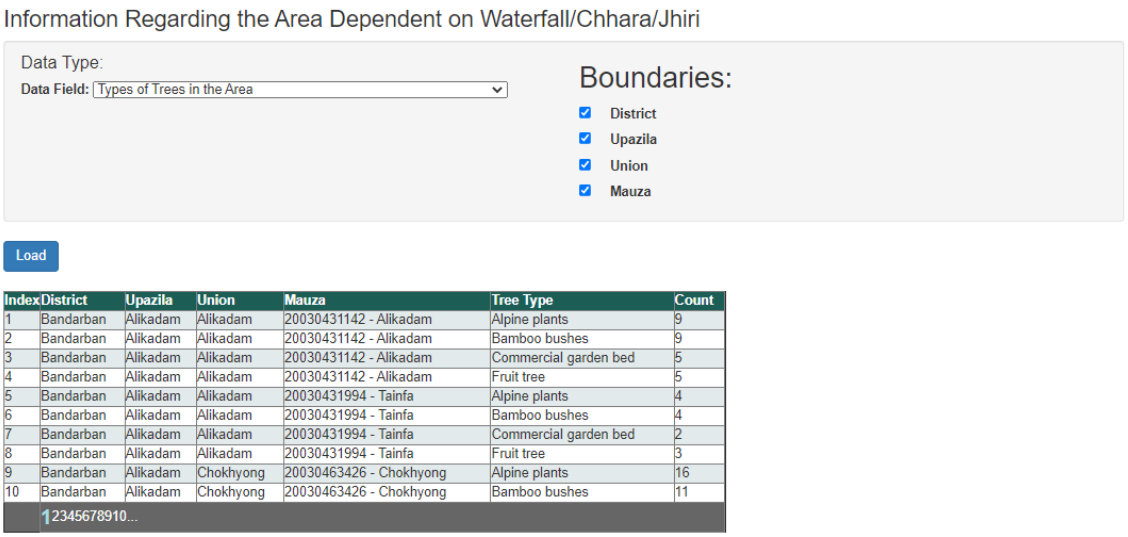
Index	District	Upazila	Union	Mauza	Irrigation Source	Count
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Canal	4
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Chhara	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Jhiri	7
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pond	3
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	River	1
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Seasonal rain water	1
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Water from chhara/jhiri stored in dams	3
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Well	1
9	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Chhara	1
10	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Jhiri	3

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.27 Boundary wise list of the number of irrigation sources in each region

1.4.5 Types of Trees in the Area

The page displays the number of each type of trees (from the types stored in the database), grouped by the boundaries selected by the user. An example of the data produced is provided on Figure 1.28.



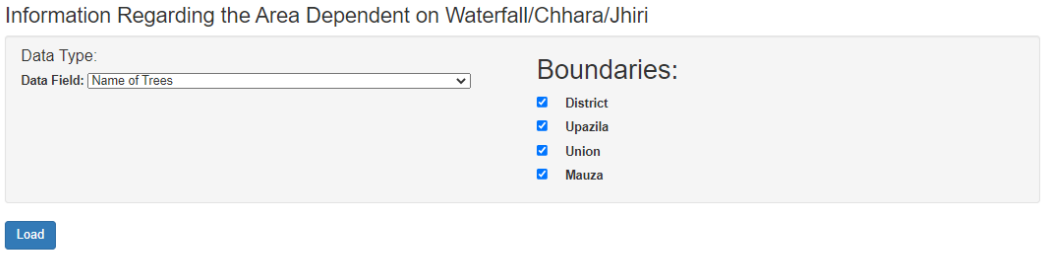
Index	District	Upazila	Union	Mauza	Tree Type	Count
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Alpine plants	9
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Bamboo bushes	9
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Commercial garden bed	5
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Fruit tree	5
5	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Alpine plants	4
6	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Bamboo bushes	4
7	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Commercial garden bed	2
8	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Fruit tree	3
9	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Alpine plants	16
10	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Bamboo bushes	11

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.28 Boundary wise list of count of each type of trees

1.4.6 Name of Trees

This page displays the number of each tree (from the tree names stored in the database), grouped by the boundaries selected by the user. An example of the data produced is provided on Figure 1.29.



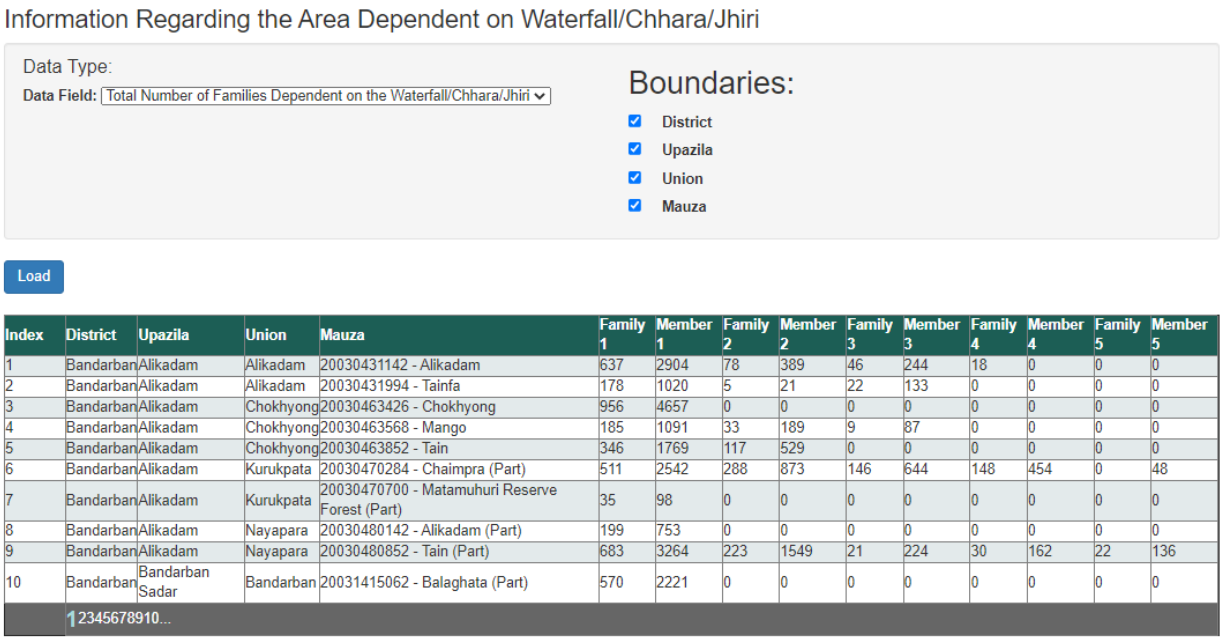
Index	District	Upazila	Union	Mauza	Tree Names	Count
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Elephant Apple	2
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Lychee	5
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pani Kumari	1
4	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Fig	1
5	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	Indian Gooseberry	1
6	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Bael	6
7	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	Cashmere	1
8	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	Coconut	4
9	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	Jackfruit	5
10	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	Olive	3

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.29 Boundary wise data list of number of trees in each region grouped by tree names

1.4.7 Total Number of Families Dependent on the Waterfall/Chhara/Jhiri

This page displays the number of families and the number of members from the families that are dependent on the water source in each boundary. An example of the data produced is provided on Figure 1.30.



Index	District	Upazila	Union	Mauza	Family 1	Member 1	Family 2	Member 2	Family 3	Member 3	Family 4	Member 4	Family 5	Member 5
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	637	2904	78	389	46	244	18	0	0	0
2	Bandarban	Alikadam	Alikadam	20030431994 - Tainfa	178	1020	5	21	22	133	0	0	0	0
3	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	956	4657	0	0	0	0	0	0	0	0
4	Bandarban	Alikadam	Chokhyong	20030463568 - Mango	185	1091	33	189	9	87	0	0	0	0
5	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	346	1769	117	529	0	0	0	0	0	0
6	Bandarban	Alikadam	Kurukpata	20030470284 - Chaimpra (Part)	511	2542	288	873	146	644	148	454	0	48
7	Bandarban	Alikadam	Kurukpata	20030470700 - Matamuhuri Reserve Forest (Part)	35	98	0	0	0	0	0	0	0	0
8	Bandarban	Alikadam	Nayapara	20030480142 - Alikadam (Part)	199	753	0	0	0	0	0	0	0	0
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	683	3264	223	1549	21	224	30	162	22	136
10	Bandarban	Bandarban Sadar	Bandarban	20031415062 - Balaghata (Part)	570	2221	0	0	0	0	0	0	0	0

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.30 Boundary wise list of number of families dependent on the water source

1.5 S7: Project Information

This page displays project related information.

The first input seen in the form is a dropdown list containing the kinds of data that the user may access using this page. The dropdown contains the following types of data:

- Has there been any project undertaken to develop the Waterfall/Chhara/Jhiri?
- Type of project if undertaken to develop the Waterfall/Chhara/Jhiri
- Is there any future plan to improve the Waterfall/Chhara/Jhiri?
- Type of project if there is any future plan to improve the Waterfall/Chhara/Jhiri
- Project Information

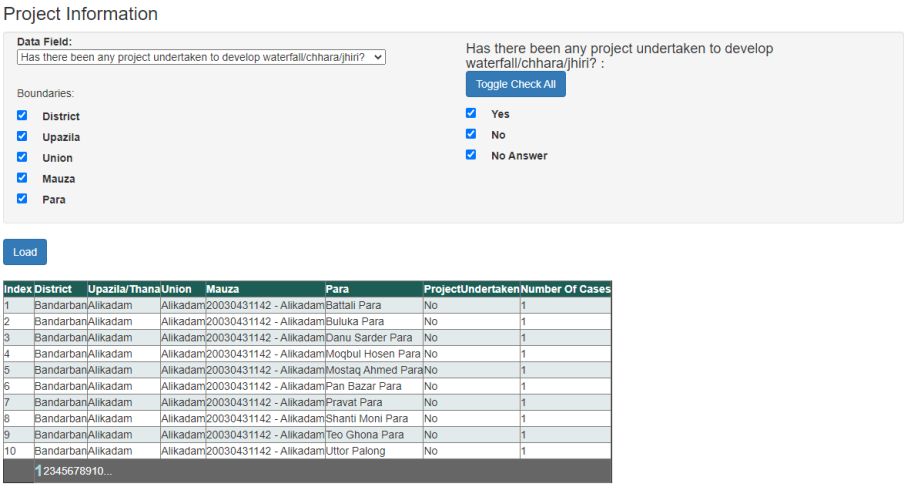
Each of these options can load different types of data from the database. The table adapts based on the selected option and modifies the columns on the table accordingly.

There are checkboxes below the dropdown for selecting boundaries as well. These can be used to group the data produced by separate regions.

Other checkboxes appear on the right based on the option selected from the dropdown menu. These variations are specified in the sections 1.5.1 to 1.5.5.

1.5.1 Has there been any project undertaken to develop the Waterfall/Chhara/Jhiri?

This section displays the number of water sources for which projects have been undertaken to develop, have not been undertaken to develop, and for which no information regarding undertaken projects were submitted during data submission. A sample for the data produced on this section is provided below on Figure 1.31.



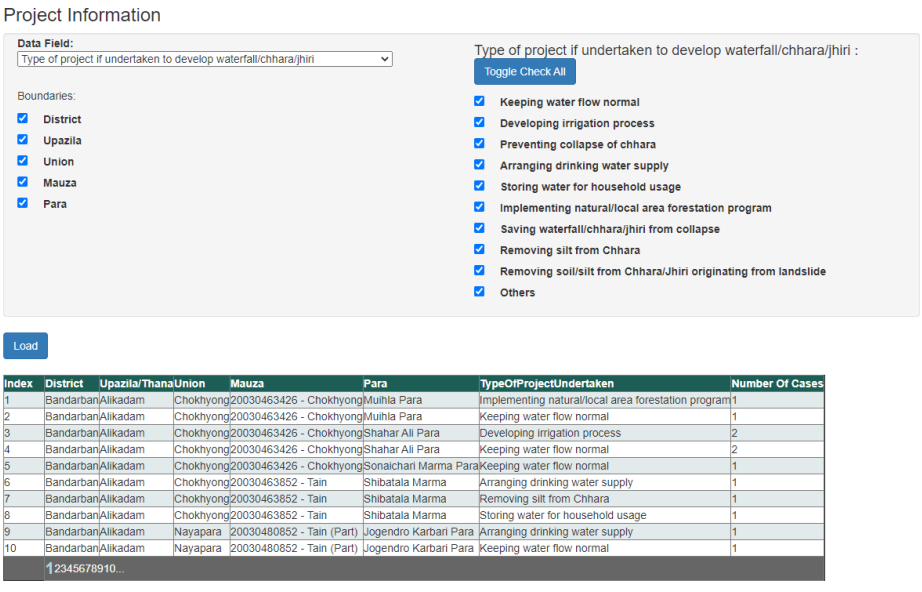
Index	District	Upazila/Thana	Union	Mauza	Para	ProjectUndertaken	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Battali Para	No	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Buluka Para	No	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sarder Para	No	1
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Moqbul Hosen Para	No	1
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mostaq Ahmed Para	No	1
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pan Bazar Para	No	1
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pravat Para	No	1
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Shanti Moni Para	No	1
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Teo Ghona Para	No	1
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Uttor Palong	No	1

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.31 Data displaying count of water sources with unknown project information, undertaken projects, and no undertaken projects for its development

1.5.2 Type of project if undertaken to develop the Waterfall/Chhara/Jhiri

This section displays the number of cases of each type of project for each water source that have been undertaken to develop the water source. A sample for the data produced on this section is provided below on Figure 1.32.



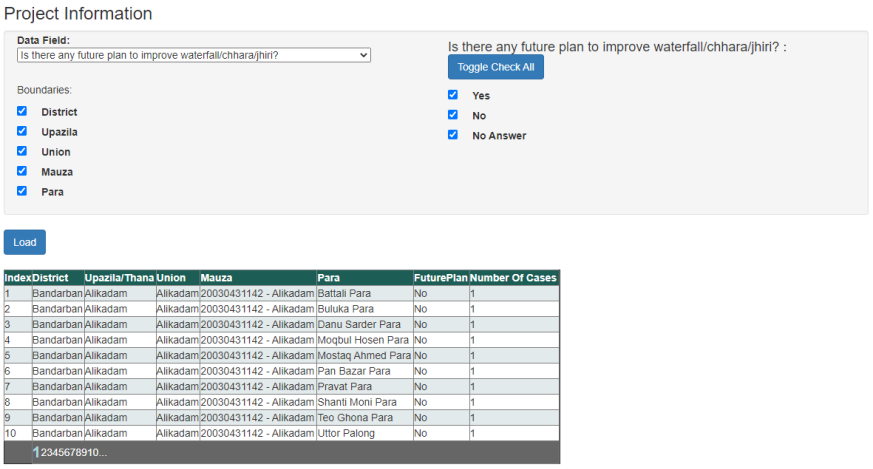
Index	District	Upazila/Thana	Union	Mauza	Para	TypeOfProjectUndertaken	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Muihla Para	Implementing natural/local area forestation program	1
2	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Muihla Para	Keeping water flow normal	1
3	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Shahar Ali Para	Developing irrigation process	2
4	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Shahar Ali Para	Keeping water flow normal	2
5	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Sonaichari Marma Para	Keeping water flow normal	1
6	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Arranging drinking water supply	1
7	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Removing silt from Chhara	1
8	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Storing water for household usage	1
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	Arranging drinking water supply	1
10	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	Keeping water flow normal	1

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.32 Data displaying count of each type of project undertaken to develop the water sources

1.5.3 Is there any future plan to improve the Waterfall/Chhara/Jhiri?

This section displays the number of cases of water sources for which a future plan for improvement exists, doesn't exist or the existence is unknown or unconfirmed. The data is grouped by boundaries. A sample of the data produced on this page is provided below on Figure 1.33.



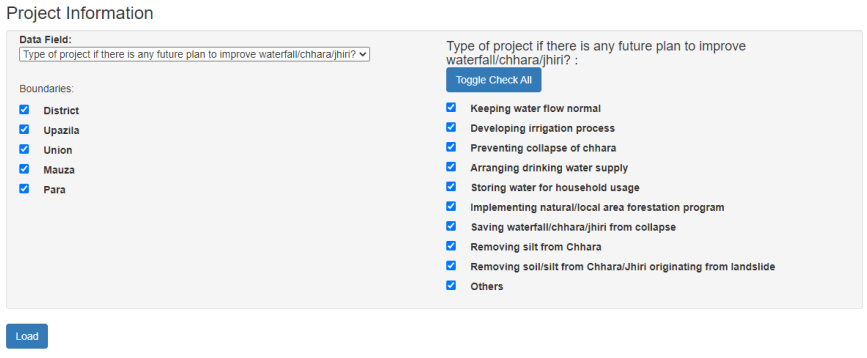
Index	District	Upazila/Thana	Union	Mauza	Para	FuturePlan	Number Of Cases
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Battali Para	No	1
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Buluka Para	No	1
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Danu Sarder Para	No	1
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Moqbul Hosen Para	No	1
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Mostaq Ahmed Para	No	1
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pan Bazar Para	No	1
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Pravat Para	No	1
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Shanti Moni Para	No	1
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Teo Ghona Para	No	1
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Uttor Palong	No	1

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.33 Data displaying count of water sources with, without or unknown future plans of improvement

1.5.4 Type of project if there is any future plan to improve the Waterfall/Chhara/Jhiri

This section displays the number of cases of each type of future plans of improvement for each water source. A sample for the data produced on this section is provided below on Figure 1.34.



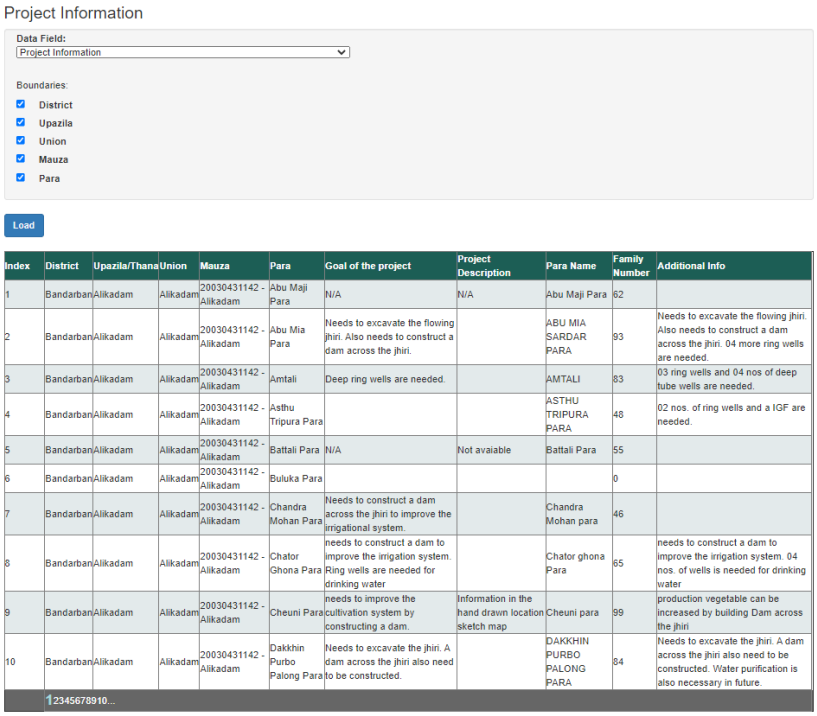
Index	District	Upazila/Thana	Union	Mauza	Para	TypeOfProjectWithFuturePlan	Number Of Cases
1	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Muihla Para	Implementing natural/local area forestation program	1
2	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Muihla Para	Keeping water flow normal	1
3	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Shahar Ali Para	Developing irrigation process	2
4	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Shahar Ali Para	Keeping water flow normal	2
5	Bandarban	Alikadam	Chokhyong	20030463426 - Chokhyong	Sonaichari Marma Para	Keeping water flow normal	1
6	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Arranging drinking water supply	1
7	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Removing silt from Chhara	1
8	Bandarban	Alikadam	Chokhyong	20030463852 - Tain	Shibatala Marma	Storing water for household usage	1
9	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	Arranging drinking water supply	1
10	Bandarban	Alikadam	Nayapara	20030480852 - Tain (Part)	Jogendro Karbari Para	Keeping water flow normal	1

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.34 Data displaying count of each type of future plans of improvement for the water sources

1.5.5 Project Information

This section displays project information for water sources such as the goal of the project, project description, name of para, number of family members and other additional information. A sample of the data produced on this page is provided below on Figure 1.35.



Index	District	Upazila/Thana	Union	Mauza	Para	Goal of the project	Project Description	Para Name	Family Number	Additional Info
1	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Maji Para	N/A	N/A	Abu Maji Para	62	
2	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Abu Mia Para	Needs to excavate the flowing jhiri. Also needs to construct a dam across the jhiri.		ABU MIA SARDAR PARA	93	Needs to excavate the flowing jhiri. Also needs to construct a dam across the jhiri. 04 more ring wells are needed.
3	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Amtali	Deep ring wells are needed.		AMTALI	83	03 ring wells and 04 nos of deep tube wells are needed.
4	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Asthu Tripura Para			ASTHU TRIPURA PARA	48	02 nos. of ring wells and a IGF are needed.
5	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Battali Para	N/A	Not avaiable	Battali Para	55	
6	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Buluka Para				0	
7	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Chandra Mohan Para	Needs to construct a dam across the jhiri to improve the irrigational system.		Chandra Mohan para	46	
8	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Chator Ghona Para	needs to construct a dam to improve the irrigation system. Ring wells are needed for drinking water		Chator ghona Para	65	needs to construct a dam to improve the irrigation system. 04 nos. of wells is needed for drinking water
9	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Cheuni Para	needs to improve the cultivation system by constructing a dam.	Information in the hand drawn location sketch map	Cheuni para	99	production vegetable can be increased by building Dam across the jhiri
10	Bandarban	Alikadam	Alikadam	20030431142 - Alikadam	Dakkhin Purbo Palong Para	Needs to excavate the jhiri. A dam across the jhiri also need to be constructed.		DAKKHIN PURBO PALONG PARA	84	Needs to excavate the jhiri. A dam across the jhiri also need to be constructed. Water purification is also necessary in future.

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.35 Project Information for Water Sources

1.6 S8: Alternate Water Sources

This page displays information related to alternate water sources and their connection with the locals.

The first input seen in the form is a dropdown list containing the kinds of data that the user may access using this page. The dropdown contains the following types of data:

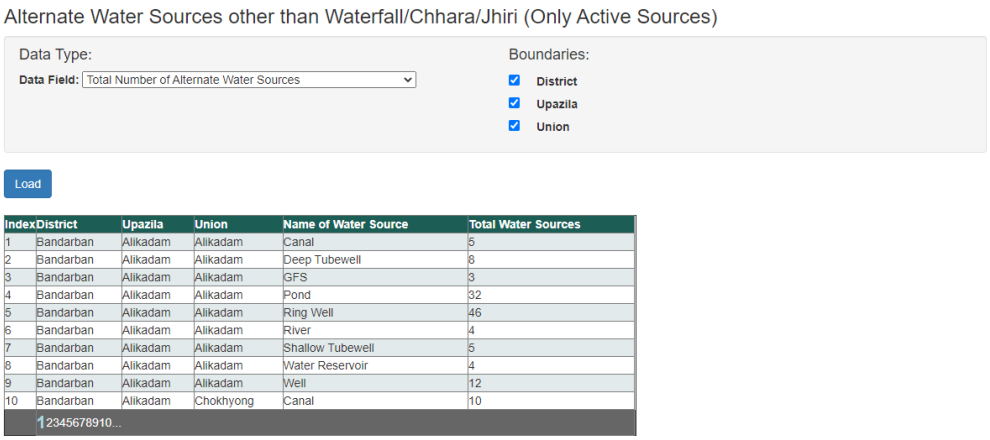
- Total Number of Alternate Water Sources
- Total Number of Benefitted Families
- Count of Alternate Water Sources grouped by Season Type
- Distance between Locality and Any Source of Water (in guz)
- Land Currently Involved in Agriculture (in acres)

Each of these options can load different types of data from the database. The table adapts based on the selected option and modifies the columns on the table accordingly.

There are checkboxes to the right of the dropdown menu for selecting boundaries as well. These can be used to group the data produced by separate regions.

1.6.1 Total Number of Alternate Water Sources

This section displays the number of alternate water sources of several kinds along with their names, grouped by the selected boundaries. A sample of the data produced on this page is provided below on Figure 1.36.



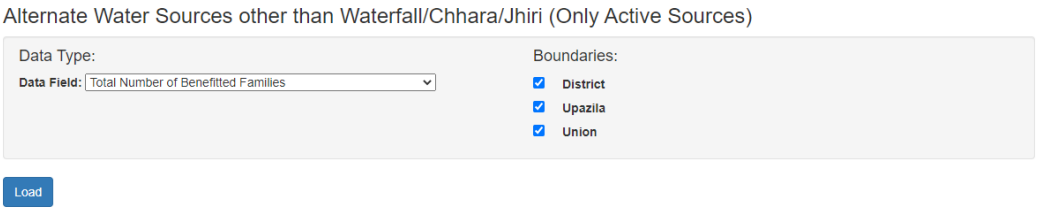
Index	District	Upazila	Union	Name of Water Source	Total Water Sources
1	Bandarban	Alikadam	Alikadam	Canal	5
2	Bandarban	Alikadam	Alikadam	Deep Tubewell	8
3	Bandarban	Alikadam	Alikadam	GFS	3
4	Bandarban	Alikadam	Alikadam	Pond	32
5	Bandarban	Alikadam	Alikadam	Ring Well	46
6	Bandarban	Alikadam	Alikadam	River	4
7	Bandarban	Alikadam	Alikadam	Shallow Tubewell	5
8	Bandarban	Alikadam	Alikadam	Water Reservoir	4
9	Bandarban	Alikadam	Alikadam	Well	12
10	Bandarban	Alikadam	Chokhyong	Canal	10

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.36 Number of water sources grouped by boundaries

1.6.2 Total Number of Benefitted Families

This section displays the number of families that are benefitted by the different kinds of alternate water sources on each boundary. A sample of the data produced is provided below on Figure 1.37.



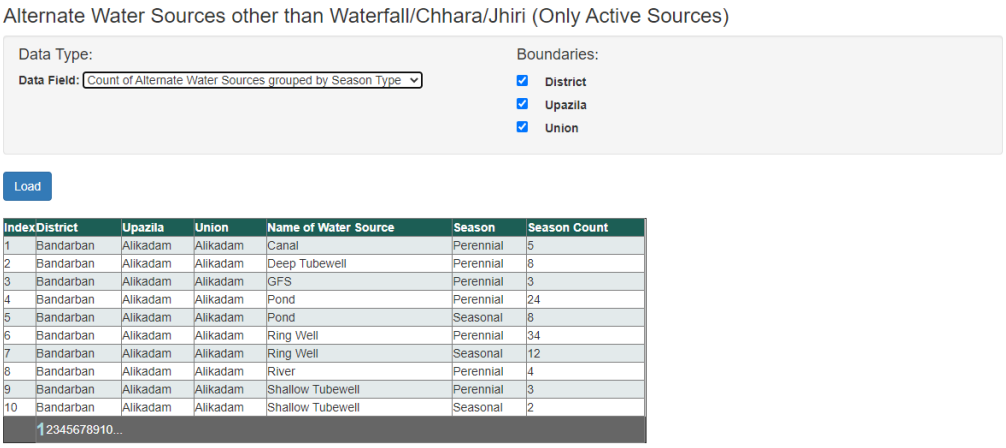
Index	District	Upazila	Union	Name of Water Source	Total Benifited Family
1	Bandarban	Alikadam	Alikadam	Canal	308
2	Bandarban	Alikadam	Alikadam	Deep Tubewell	321
3	Bandarban	Alikadam	Alikadam	GFS	154
4	Bandarban	Alikadam	Alikadam	Pond	1664
5	Bandarban	Alikadam	Alikadam	Ring Well	2448
6	Bandarban	Alikadam	Alikadam	River	271
7	Bandarban	Alikadam	Alikadam	Shallow Tubewell	146
8	Bandarban	Alikadam	Alikadam	Water Reservoir	85
9	Bandarban	Alikadam	Alikadam	Well	586
10	Bandarban	Alikadam	Chokhyong	Canal	422

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.37 Number of families that are benefitted by different water sources grouped by boundaries

1.6.3 Count of Alternate Water Sources grouped by Season Type

This section displays the number of alternate water sources grouped by boundary and season type. A sample of the data produced is provided below on Figure 1.38.



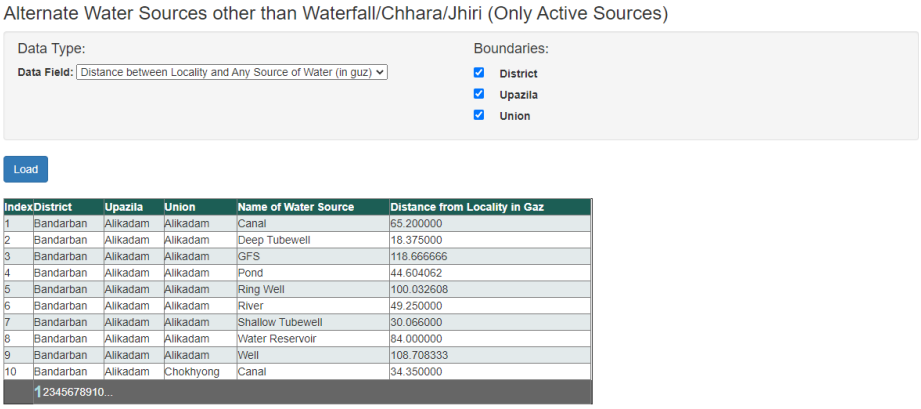
Index	District	Upazila	Union	Name of Water Source	Season	Season Count
1	Bandarban	Alikadam	Alikadam	Canal	Perennial	5
2	Bandarban	Alikadam	Alikadam	Deep Tubewell	Perennial	8
3	Bandarban	Alikadam	Alikadam	GFS	Perennial	3
4	Bandarban	Alikadam	Alikadam	Pond	Perennial	24
5	Bandarban	Alikadam	Alikadam	Pond	Seasonal	8
6	Bandarban	Alikadam	Alikadam	Ring Well	Perennial	34
7	Bandarban	Alikadam	Alikadam	Ring Well	Seasonal	12
8	Bandarban	Alikadam	Alikadam	River	Perennial	4
9	Bandarban	Alikadam	Alikadam	Shallow Tubewell	Perennial	3
10	Bandarban	Alikadam	Alikadam	Shallow Tubewell	Seasonal	2

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.38 Number of Alternate Water Sources grouped by Boundaries and Season Type

1.6.4 Distance between Locality and Any Source of Water (in guz)

This section displays the distance (in guz) between nearby locality and any alternate source of water grouped by boundaries. A sample of the data produced is provided below on Figure 1.39.



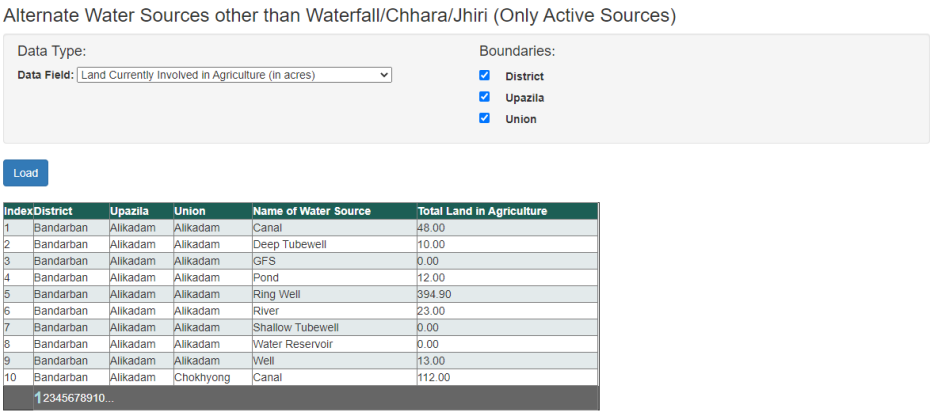
Index	District	Upazila	Union	Name of Water Source	Distance from Locality in Gaz
1	Bandarban	Alikadam	Alikadam	Canal	65.200000
2	Bandarban	Alikadam	Alikadam	Deep Tubewell	18.375000
3	Bandarban	Alikadam	Alikadam	GFS	118.666666
4	Bandarban	Alikadam	Alikadam	Pond	44.604062
5	Bandarban	Alikadam	Alikadam	Ring Well	100.032608
6	Bandarban	Alikadam	Alikadam	River	49.250000
7	Bandarban	Alikadam	Alikadam	Shallow Tubewell	30.066000
8	Bandarban	Alikadam	Alikadam	Water Reservoir	84.000000
9	Bandarban	Alikadam	Alikadam	Well	108.708333
10	Bandarban	Alikadam	Chokhyong	Canal	34.350000

1 2 3 4 5 6 7 8 9 10 ...

Figure 1.39 Distances between localities and any alternate source of water sources grouped by boundaries

1.6.5 Land Currently Involved in Agriculture (in acres)

This section displays the area (in acres) of lands that are involved in agriculture around the alternate water sources grouped by boundaries. A sample of the data produced is provided below on Figure 1.40.



Index	District	Upazila	Union	Name of Water Source	Total Land in Agriculture
1	Bandarban	Alikadam	Alikadam	Canal	48.00
2	Bandarban	Alikadam	Alikadam	Deep Tubewell	10.00
3	Bandarban	Alikadam	Alikadam	GFS	0.00
4	Bandarban	Alikadam	Alikadam	Pond	12.00
5	Bandarban	Alikadam	Alikadam	Ring Well	394.90
6	Bandarban	Alikadam	Alikadam	River	23.00
7	Bandarban	Alikadam	Alikadam	Shallow Tubewell	0.00
8	Bandarban	Alikadam	Alikadam	Water Reservoir	0.00
9	Bandarban	Alikadam	Alikadam	Well	13.00
10	Bandarban	Alikadam	Chokhyong	Canal	112.00

1 2345678910...

Figure 1.40 Area of lands in acres involved in agriculture around the alternate water sources