Flow Accumulation Report Tool

The present guidebook represents a basic tutorial that explains how to best use the Flow Accumulation Report web application.

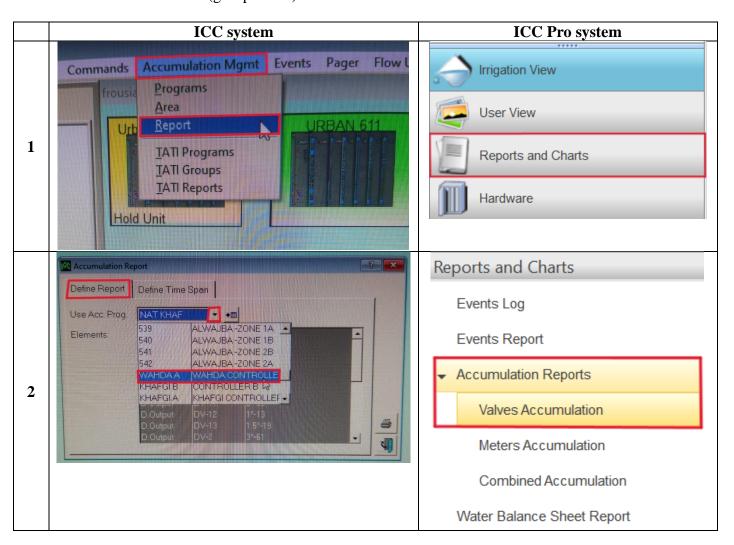
Step1: Preparing input data

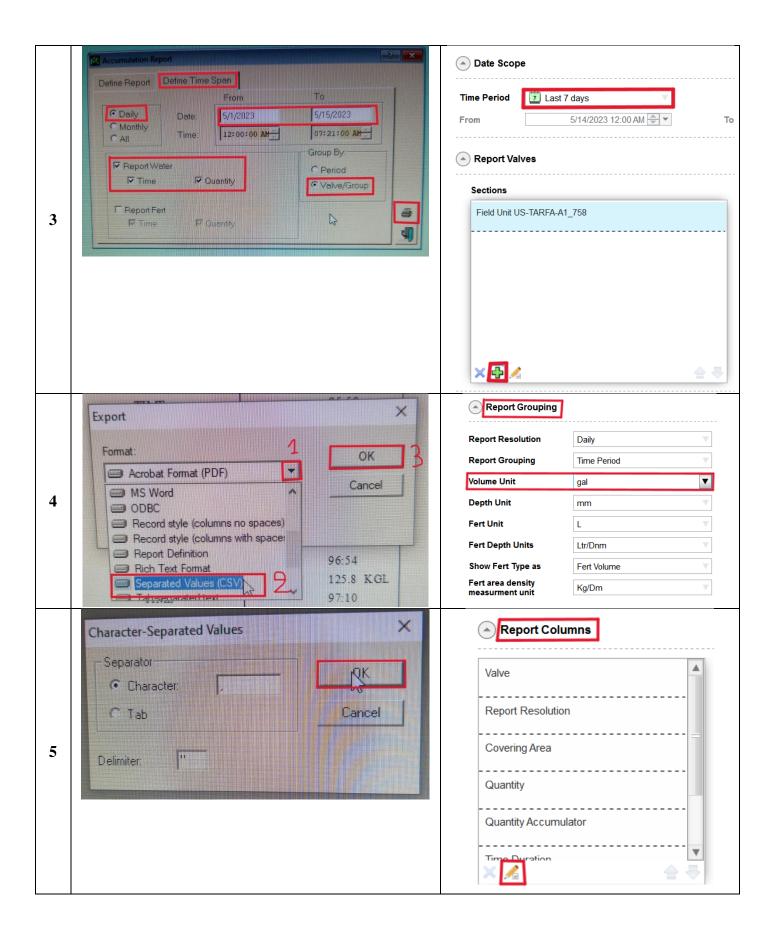
To use this web application, the user will need to prepare two files:

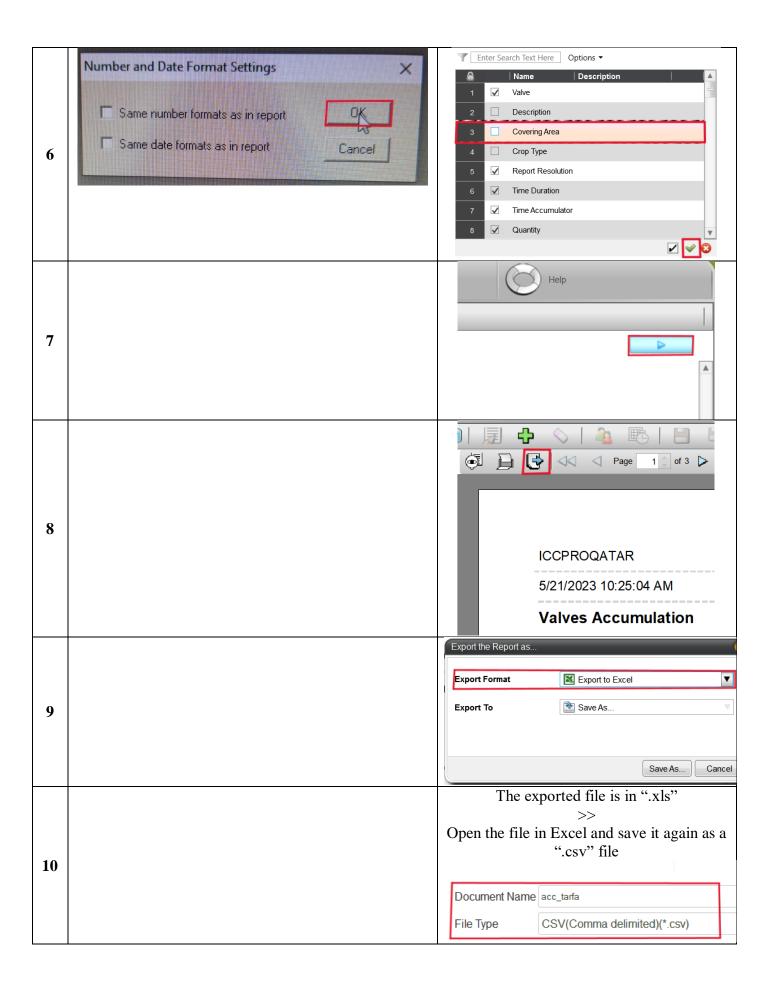
- 1. One containing the flow accumulation of an area of interest (See Table 1), where the file name should be in this format "acc_SiteName" (e.g., "acc_wehda"); [file generated by ICC/ICCpro system]
- 2. One containing the designed flow calculations and other info (See Figure 1), where the file name should be in this format "designedFlow_SiteName" (e.g., "designedFlow_wehda"). [file prepared manually]

Both files need to be prepared in the ".csv" extension. The web application was coded based on the current available versions of ICC and ICC pro systems (21/5/2023).

The user should ensure that the column names in the second file are retained as they are. The column "Group" indicate irrigation valves that run in groups of two or more. For example, Figure 1 shows that DV1 and DV2 run at the same time (group id = 8).







	А	В	С	D	E	F
1	valve	GPM	lat	lon	Group	
2	BV1	13.5	25.363465	51.495083	13	
3	BV1A	10	25.363365	51.494983	6	
4	BV1B	17	25.363265	51.494883	14	
5	BV2	3	25.363165	51.494783	13	
6	BV2A	3	25.363065	51.494683	6	
7	BV3	2.5	25.362965	51.494583	14	
8	BV4A	14	25.362865	51.494483	7	
9	BV5A	7	25.362765	51.494383	7	
10	DV1	6.37	25.362665	51.494283	8	
11	DV10	16.78	25.362565	51.494183	12	
12	DV11	20.68	25.362465	51.494083	19	
13	DV1B	29.43	25.362365	51.493983	17	
14	DV2	29.43	25.362265	51.493883	8	
15	DV2B	29.43	25.362165	51.493783	17	
16	DV3	18.62	25.362065	51.493683	9	
17	DV4	36.39	25.361965	51.493583	9	
18	DV5	9.4	25.361865	51.493483	10	

Figure 1

Step2: Running the analysis in the cloud.

Direct link to the web application:

https://farhatlokmen-flowaccanalysis-home-lwtdze.streamlit.app/Flow_Accumulation_Report

