Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: **N/A - No Proposed Stormwater Facility**

Facility Location & Jurisdiction: **Peerless Farms**

User Input: Watershed Characteristics

Flood Control Only	No BMP	
Watershed Area =	40.01	acres
Watershed Length =	1,650	ft
Watershed Length to Centroid =	825	ft
Watershed Slope =	0.023	ft/ft
Watershed Imperviousness =	7.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	N/A	hours

Location for 1-hr Rainfall Depths (use dropdown):

Denver - Capitol Building

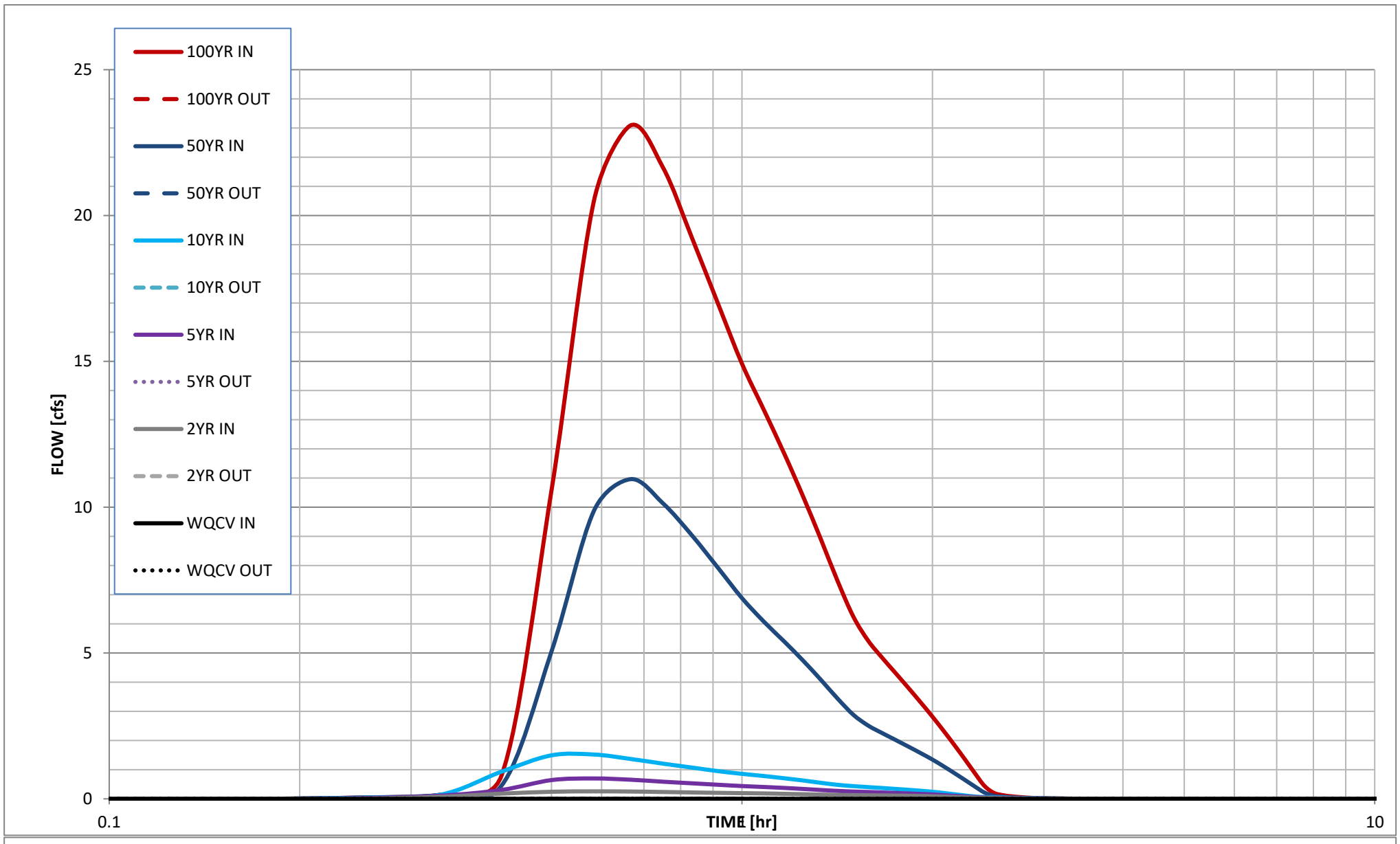
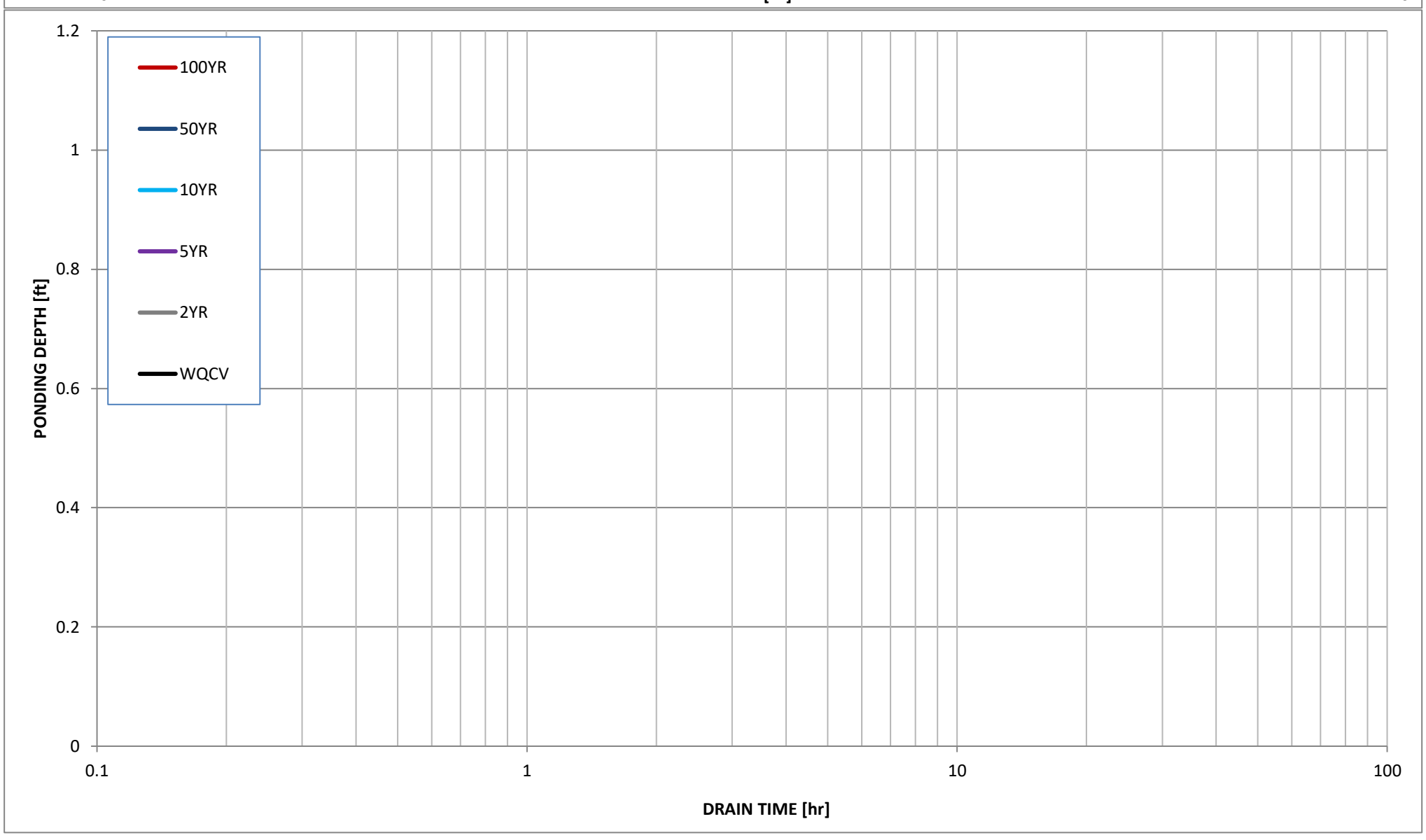
After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00		0.00	

After completing and printing this worksheet to a pdf, go to:
https://maperture.digitaldataservices.com/gvh/?viewer=cswdif
Create a new stormwater facility, and attach the PDF of this worksheet to that record.

Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	N/A	0.83	1.09	1.33	1.99	2.31	in
CUHP Runoff Volume =	N/A	0.026	0.056	0.110	0.704	1.501	acre-ft
Inflow Hydrograph Volume =							acre-ft
Time to Drain 97% of Inflow Volume =							hours
Time to Drain 99% of Inflow Volume =							hours
Maximum Ponding Depth =							ft
Maximum Ponded Area =							acres
Maximum Volume Stored =							acre-ft

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