

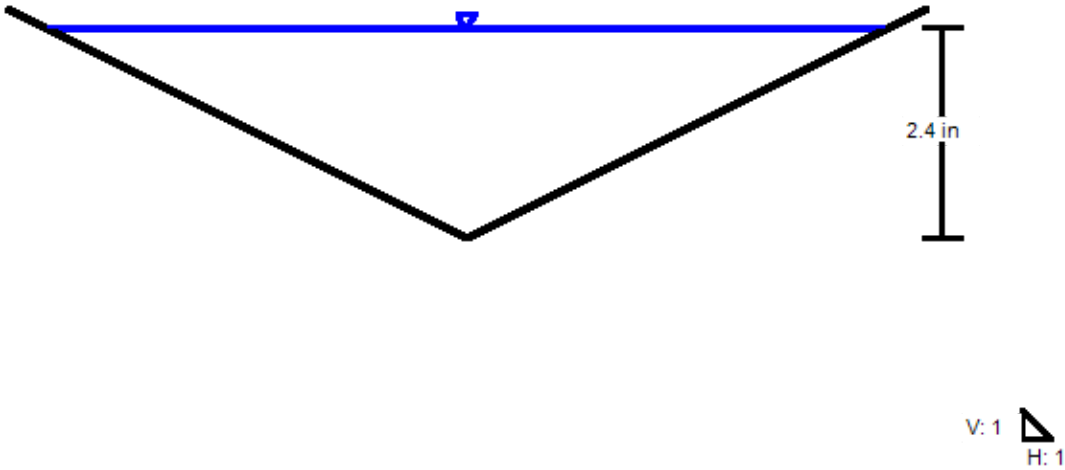
APPENDIX I: HYDROLOGY AND HYDRAULIC CALCULATIONS

Worksheet for North Channel

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.090 ft/ft
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.20 cfs
Results	
Normal Depth	2.4 in
Flow Area	0.1 ft ²
Wetted Perimeter	0.9 ft
Hydraulic Radius	1.1 in
Top Width	0.80 ft
Critical Depth	2.7 in
Critical Slope	0.043 ft/ft
Velocity	2.53 ft/s
Velocity Head	0.10 ft
Specific Energy	0.30 ft
Froude Number	1.415
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.4 in
Critical Depth	2.7 in
Channel Slope	0.090 ft/ft
Critical Slope	0.043 ft/ft

Cross Section for North Channel

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.090 ft/ft
Normal Depth	2.4 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.20 cfs

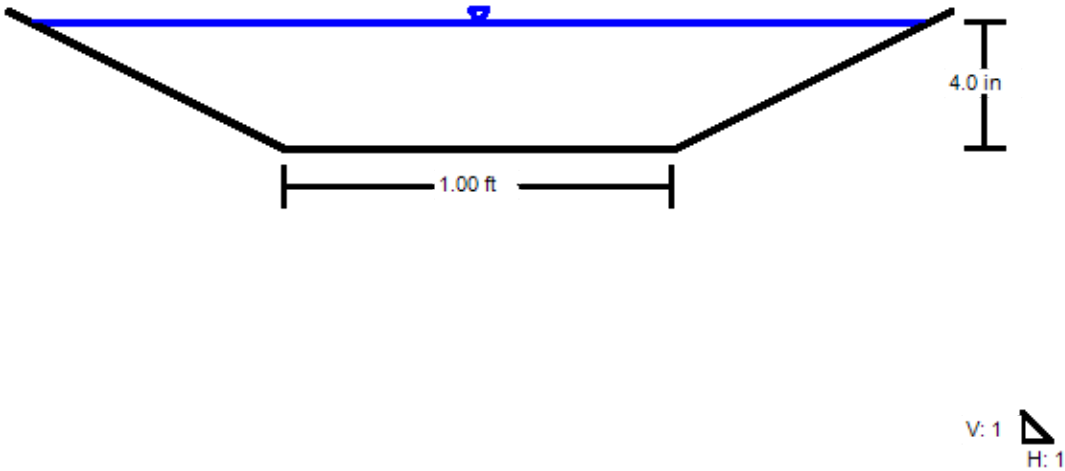


Worksheet for East Channel

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.020 ft/ft
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Bottom Width	1.00 ft
Discharge	1.20 cfs
Results	
Normal Depth	4.0 in
Flow Area	0.5 ft ²
Wetted Perimeter	2.5 ft
Hydraulic Radius	2.7 in
Top Width	2.32 ft
Critical Depth	3.5 in
Critical Slope	0.032 ft/ft
Velocity	2.20 ft/s
Velocity Head	0.07 ft
Specific Energy	0.40 ft
Froude Number	0.797
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	4.0 in
Critical Depth	3.5 in
Channel Slope	0.020 ft/ft
Critical Slope	0.032 ft/ft

Cross Section for East Channel

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.020 ft/ft
Normal Depth	4.0 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Bottom Width	1.00 ft
Discharge	1.20 cfs

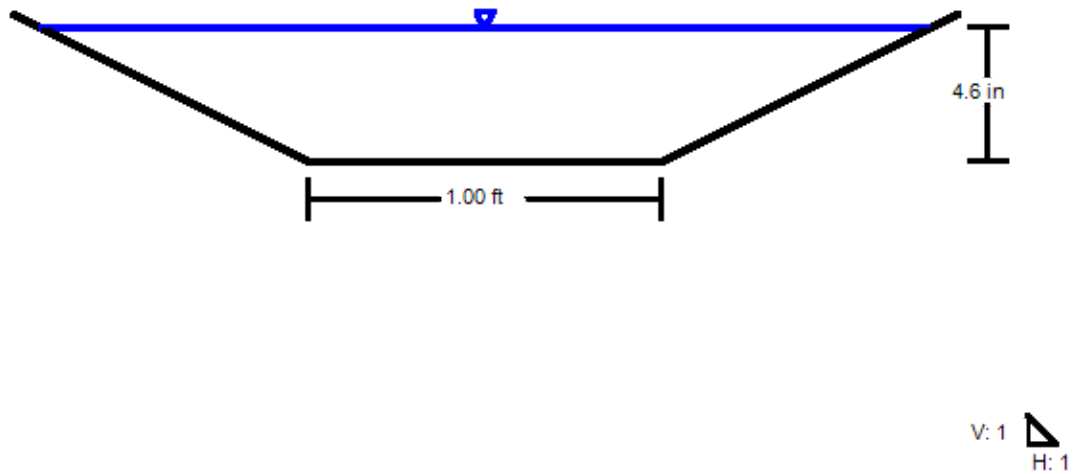


Worksheet for West Channel 1

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.020 ft/ft
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Bottom Width	1.00 ft
Discharge	1.60 cfs
Results	
Normal Depth	4.6 in
Flow Area	0.7 ft ²
Wetted Perimeter	2.7 ft
Hydraulic Radius	3.0 in
Top Width	2.53 ft
Critical Depth	4.1 in
Critical Slope	0.031 ft/ft
Velocity	2.38 ft/s
Velocity Head	0.09 ft
Specific Energy	0.47 ft
Froude Number	0.811
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	4.6 in
Critical Depth	4.1 in
Channel Slope	0.020 ft/ft
Critical Slope	0.031 ft/ft

Cross Section for West Channel 1

Project Description	
Friction Method	Manning
Solve For	Formula
	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.020 ft/ft
Normal Depth	4.6 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Bottom Width	1.00 ft
Discharge	1.60 cfs

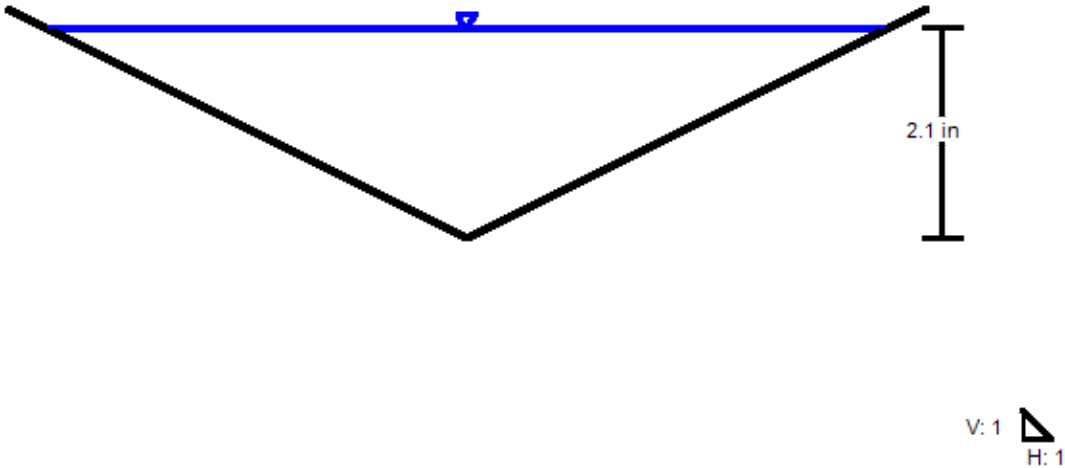


Worksheet for West Channel 2

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.200 ft/ft
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.20 cfs
Results	
Normal Depth	2.1 in
Flow Area	0.1 ft ²
Wetted Perimeter	0.8 ft
Hydraulic Radius	0.9 in
Top Width	0.68 ft
Critical Depth	2.7 in
Critical Slope	0.043 ft/ft
Velocity	3.42 ft/s
Velocity Head	0.18 ft
Specific Energy	0.35 ft
Froude Number	2.060
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.1 in
Critical Depth	2.7 in
Channel Slope	0.200 ft/ft
Critical Slope	0.043 ft/ft

Cross Section for West Channel 2

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.200 ft/ft
Normal Depth	2.1 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.20 cfs



Worksheet for Bench Channel (Typ.)

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.010 ft/ft
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.80 cfs
Results	
Normal Depth	6.1 in
Flow Area	0.5 ft ²
Wetted Perimeter	2.3 ft
Hydraulic Radius	2.7 in
Top Width	2.02 ft
Critical Depth	4.8 in
Critical Slope	0.035 ft/ft
Velocity	1.57 ft/s
Velocity Head	0.04 ft
Specific Energy	0.54 ft
Froude Number	0.552
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	0.00 ft/s
Upstream Velocity	0.00 ft/s
Normal Depth	6.1 in
Critical Depth	4.8 in
Channel Slope	0.010 ft/ft
Critical Slope	0.035 ft/ft

Cross Section for Bench Channel (Typ.)

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.035
Channel Slope	0.010 ft/ft
Normal Depth	6.1 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Discharge	0.80 cfs

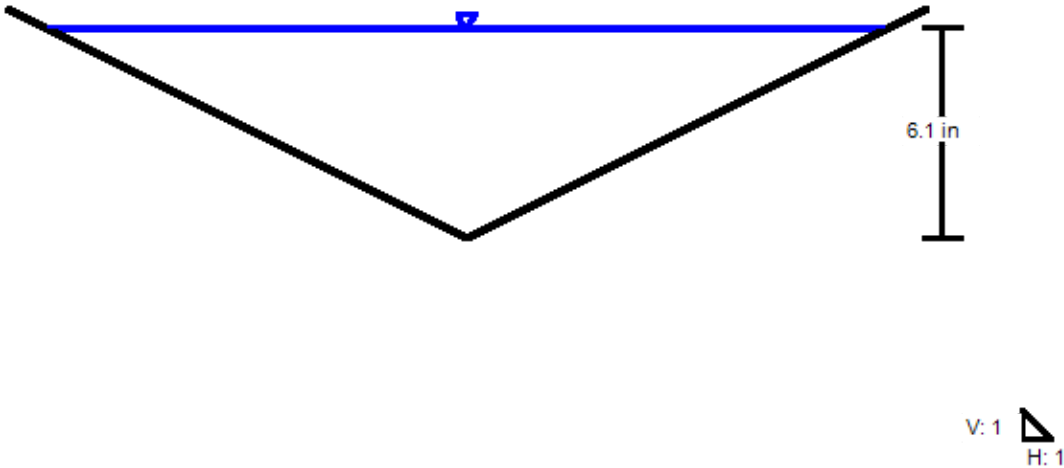


TABLE 1
Phase 5 Expansion, 25-Year, 24-Hour HEC-HMS Results - Northwest Pond
Pickles Butte Sanitary Landfill, Nampa, Idaho

End Discharge	Drainage Area ID	Area (Ac)	CN	Landcover Description	Hydrologic Soil Group	Time of Concentration (min)	Peak Discharge (cfs)
Northwest Pond	NW-1	0.22	70	Closure Cover	B	5.7	0.0
	NW-2	0.54	70	Closure Cover	B	9.3	0.0
	NW-3	0.91	70	Closure Cover	B	13.7	0.1
	NW-4	1.29	70	Closure Cover	B	18.0	0.1
	NW-5	1.61	70	Closure Cover	B	20.4	0.1
	NW-6	16.38	70	Closure Cover	B	33.7	0.8
	NW-7	2.94	70	Closure Cover	B	30.7	0.1
	NW-8	2.60	70	Closure Cover	B	27.8	0.1
	NW-9	2.26	70	Closure Cover	B	24.7	0.1
	NW-10	1.91	70	Closure Cover	B	21.3	0.1
	NW-11	6.28	70	Closure Cover	B	28.9	0.3
	NW-12	2.42	70	Closure Cover	B	26.4	0.1
	NW-13	2.14	70	Closure Cover	B	23.7	0.1
	NW-14	1.85	70	Closure Cover	B	21.0	0.1
	NW-15	1.57	70	Closure Cover	B	18.2	0.1
	NW-16	0.19	70	Closure Cover	B	6.2	0.0
	NW-17	0.71	70	Closure Cover	B	11.6	0.0
	NW-18	1.08	70	Closure Cover	B	15.5	0.1
	NW-19	1.40	70	Closure Cover	B	18.5	0.1
	NW-20	1.66	70	Closure Cover	B	21.1	0.1
	NW-21	2.35	70	Closure Cover	B	26.5	0.1
	NW-22	2.33	70	Closure Cover	B	26.4	0.1
	NW-23	2.39	70	Closure Cover	B	26.1	0.1
	NW-24	1.74	70	Closure Cover	B	19.6	0.1
	NW-25	1.38	70	Closure Cover	B	15.8	0.1
	NW-26	1.01	70	Closure Cover	B	11.7	0.1
	NW-27	2.40	70	Closure Cover	B	27.1	0.1
	NW-28	2.10	70	Closure Cover	B	22.0	0.1
	NW-29	1.50	70	Closure Cover	B	16.3	0.1
	NW-30	6.86	70	Closure Cover	B	2.6	0.5
	SW-7	2.86	70	Closure Cover	B	15.4	0.2
	N-1	3.65	70	Closure Cover	B	56.2	0.1
	N-2	2.69	70	Closure Cover	B	31.2	0.1
	N-3	3.75	70	Closure Cover	B	36.7	0.2
	N-4	3.17	70	Closure Cover	B	31.6	0.2
	N-5	2.56	70	Closure Cover	B	26.4	0.1
	N-6	1.66	70	Closure Cover	B	16.1	0.1
	N-7	0.80	70	Closure Cover	B	8.9	0.1
	N-8	0.90	70	Closure Cover	B	10.3	0.1
	N-9	5.56	70	Closure Cover	B	10	0.3

TABLE 2
Phase 5 Expansion, 25-Year, 24-Hour Run-off Summary - Natural Drainage
Pickles Butte Sanitary Landfill, Nampa, Idaho

End Discharge	Drainage Area ID	Area (Ac)	CN	Landcover Description	Hydrologic Soil Group	Time of Concentration (min)	Peak Discharge (cfs)
Natural Drainage	SW-1	17.05	70	Closure Cover	B	52.8	0.7
	SW-2	5.99	70	Closure Cover	B	47.5	0.3
	SW-3	5.58	70	Closure Cover	B	45.8	0.3
	SW-4	4.35	70	Closure Cover	B	42.6	0.2
	SW-5	4.61	70	Closure Cover	B	38.5	0.2
	SW-6	28.58	51	Sagebrush with grass understory	B	12.4	0.0

TABLE 3
Phase 5 Expansion, 25-Year, 24-Hour HEC-HMS - Results - East Pond
Pickles Butte Sanitary Landfill, Nampa, Idaho

End Discharge	Drainage Area ID	Area (Ac)	CN	Landcover Description	Hydrologic Soil Group	Time of Concentration (min)	Peak Discharge (cfs)
East Pond	E-1	19.95	70	Closure Cover	B	20.4	0.7

TABLE 4
Phase 5 Expansion, 25-Year, 24-Hour HEC-HMS - Results - Southeast Pond
Pickles Butte Sanitary Landfill, Nampa, Idaho

End Discharge	Drainage Area ID	Area (Ac)	CN ¹	Landcover Description	Hydrologic Soil Group	Time of Concentration (min)	Peak Discharge (cfs)
Southeast Pond	SE-1	68.53	70.7	Closure Cover	B	36.1	3.9
¹ CN reflects a weighted Curve Number using the following land cover types: Closure Cover, CN = 70 Sagebrush with grass understory, fair condition, CN = 51 Streets and Roads, gravel, CN = 85							

Project: Pbl 2024
Simulation Run: 25-yr 24-hr SCS II
Simulation Start: 31 July 2024, 24:00
Simulation End: 3 August 2024, 24:00

HMS Version: 4.12
Executed: 26 September 2024, 19:54

Global Parameter Summary - Subbasin

Area (MI ²)	
Element Name	Area (MI ²)
NW - 6	0.03
NW - 11	0.01
NW - 7	0
NW - 12	0
NW - 8	0
NW - 13	0
NW - 9	0
NW - 14	0
NW - 10	0
NW - 15	0
NW - 18	0
NW - 17	0
NW - 19	0
NW - 20	0
NW - 27	0
NW - 24	0
NW - 28	0
NW - 25	0
NW - 29	0
NW - 26	0
NW - 1	0
NW - 2	0
NW - 3	0
NW - 4	0
NW - 5	0
NW - 21	0
NW - 22	0

NW - 23	0
NW - 30	0.01
N - 6	0
N - 7	0
N - 8	0
E - 1	0.03
SW - 1	0.03
SW - 2	0.01
SW - 3	0.01
SW - 4	0.01
SW - 5	0.01
SW - 6	0.04
SE - 1	0.11
N - 1	0.01
N - 2	0
N - 9	0.01
N - 3	0.01
N - 4	0.01
N - 5	0
NW - 16	0
SW - 7	0

Downstream

Element Name	Downstream
NW - 6	Downchute 2.1
NW - 11	Downchute 2.1
NW - 7	Junction 2.1
NW - 12	Junction 2.1
NW - 8	Junction 2.2
NW - 13	Junction 2.2
NW - 9	Junction 2.3
NW - 14	Junction 2.3
NW - 10	Junction 2.4
NW - 15	Junction 2.4
NW - 18	Junction 3.2
NW - 17	Junction 3.1
NW - 19	Junction 3.3
NW - 20	Junction 3.4
NW - 27	Downchute 5.1
NW - 24	Downchute 5.1
NW - 28	Junction 5.1
NW - 25	Junction 5.1
NW - 29	Junction 5.2
NW - 26	Junction 5.2
NW - 1	Downchute 1.1
NW - 2	Junction 1.1
NW - 3	Junction 1.2
NW - 4	Junction 1.3
NW - 5	Junction 1.4
NW - 21	Downchute 4.1
NW - 22	Junction - 1
NW - 23	Junction 4.2
NW - 30	Northwest pond
N - 6	N junction 3
N - 7	N junction 4
N - 8	N junction 5
E - 1	East channel
SW - 1	Sw channel 1.1
SW - 2	Sw junction 1
SW - 3	Sw junction 2
SW - 4	Sw junction 3
SW - 5	Sw junction 4
SW - 6	Sw junction 5
SE - 1	Se pond
N - 1	Downchute 6

N - 2	Downchute 6
N - 9	N channel start
N - 3	N channel start
N - 4	N junction 1
N - 5	N junction 2
NW - 16	Downchute 3.1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
NW - 6	0	70
NW - 11	0	70
NW - 7	0	70
NW - 12	0	70
NW - 8	0	70
NW - 13	0	70
NW - 9	0	70
NW - 14	0	70
NW - 10	0	70
NW - 15	0	70
NW - 18	0	70
NW - 17	0	70
NW - 19	0	70
NW - 20	0	70
NW - 27	0	70
NW - 24	0	70
NW - 28	0	70
NW - 25	0	70
NW - 29	0	70
NW - 26	0	70
NW - 1	0	70
NW - 2	0	70
NW - 3	0	70
NW - 4	0	70
NW - 5	0	70
NW - 21	0	70
NW - 22	0	70
NW - 23	0	70
NW - 30	0	70
N - 6	0	70
N - 7	0	70
N - 8	0	70
E - 1	0	70
SW - 1	0	70
SW - 2	0	70
SW - 3	0	70
SW - 4	0	70
SW - 5	0	70
SW - 6	0	51
SE - 1	0	70.7
N - 1	0	70

N - 2		0	70
N - 9		0	70
N - 3		0	70
N - 4		0	70
N - 5		0	70
NW - 16		0	70
SW - 7		0	70

Transform: Scs

Element Name	Lag	Unitgraph Type
NW - 6	24.3	Standard
NW - 11	20.9	Standard
NW - 7	22.2	Standard
NW - 12	19	Standard
NW - 8	20.1	Standard
NW - 13	17.1	Standard
NW - 9	17.8	Standard
NW - 14	15.2	Standard
NW - 10	15.4	Standard
NW - 15	13.1	Standard
NW - 18	11.2	Standard
NW - 17	8.4	Standard
NW - 19	13.3	Standard
NW - 20	15.2	Standard
NW - 27	19.6	Standard
NW - 24	14.1	Standard
NW - 28	15.9	Standard
NW - 25	11.4	Standard
NW - 29	11.7	Standard
NW - 26	8.4	Standard
NW - 1	4.1	Standard
NW - 2	6.7	Standard
NW - 3	9.9	Standard
NW - 4	13	Standard
NW - 5	14.7	Standard
NW - 21	19.1	Standard
NW - 22	19	Standard
NW - 23	18.8	Standard
NW - 30	1.9	Standard
N - 6	11.6	Standard
N - 7	6.5	Standard
N - 8	7.4	Standard
E - 1	14.7	Standard
SW - 1	31.7	Standard
SW - 2	28.5	Standard
SW - 3	27.5	Standard
SW - 4	25.6	Standard
SW - 5	23.1	Standard
SW - 6	7.4	Standard
SE - 1	21.7	Standard
N - 1	40.5	Standard

N - 2	22.5	Standard
N - 9	10	Standard
N - 3	26.5	Standard
N - 4	22.8	Standard
N - 5	19.1	Standard
NW - 16	4.5	Standard
SW - 7	9.3	Standard

Global Parameter Summary - Reach

Downstream	
Element Name	Downstream
Downchute 2.1	Junction 2.1
Downchute 2.2	Junction 2.2
Downchute 2.3	Junction 2.3
Downchute 2.4	Junction 2.4
Downchute 3.2	Junction 3.2
Downchute 3.3	Junction 3.3
Downchute 3.4	Junction 3.4
Downchute 5.1	Junction 5.1
Downchute 5.2	Junction 5.2
Downchute 5.3	Northwest pond
Downchute 1.1	Junction 1.1
Downchute 1.2	Junction 1.2
Downchute 1.3	Junction 1.3
Downchute 1.4	Junction 1.4
Downchute 4.1	Junction - 1
Downchute 4.2	Junction 4.2
Downchute 4.3	Northwest pond
N channel 1.3	N junction 3
N channel 1.4	N junction 4
N channel 1.5	N junction 5
N channel 1.6	Northwest pond
East channel	East pond
Sw channel 1.1	Sw junction 1
Sw channel 1.2	Sw junction 2
Sw channel 1.3	Sw junction 3
Sw channel 1.4	Sw junction 4
Sw channel 1.5	Sw junction 5
Sw channel 1.6	West channel 1 sink
Downchute 6	N channel start

N channel 1.2

N junction 2

Route: Lag

Element Name	Method	Initial Variable	Lag
Downchute 2.1	Lag	Combined Inflow	0.5
Downchute 2.2	Lag	Combined Inflow	0.5
Downchute 2.3	Lag	Combined Inflow	0.5
Downchute 2.4	Lag	Combined Inflow	0.2
Downchute 3.2	Lag	Combined Inflow	0.5
Downchute 3.3	Lag	Combined Inflow	0.5
Downchute 3.4	Lag	Combined Inflow	0.2
Downchute 5.1	Lag	Combined Inflow	0.5
Downchute 5.2	Lag	Combined Inflow	0.5
Downchute 5.3	Lag	Combined Inflow	0.5
Downchute 1.1	Lag	Combined Inflow	0.5
Downchute 1.2	Lag	Combined Inflow	0.5
Downchute 1.3	Lag	Combined Inflow	0.5
Downchute 1.4	Lag	Combined Inflow	0.5
Downchute 4.1	Lag	Combined Inflow	0.5
Downchute 4.2	Lag	Combined Inflow	0.5
Downchute 4.3	Lag	Combined Inflow	0.5
N channel 1.3	Lag	Combined Inflow	2.4
N channel 1.4	Lag	Combined Inflow	2.4
N channel 1.5	Lag	Combined Inflow	2.4
N channel 1.6	Lag	Combined Inflow	2.4
East channel	Lag	Combined Inflow	10.1
Sw channel 1.1	Lag	Combined Inflow	2.4
Sw channel 1.2	Lag	Combined Inflow	2.4
Sw channel 1.3	Lag	Combined Inflow	2.4
Sw channel 1.4	Lag	Combined Inflow	2.4
Sw channel 1.5	Lag	Combined Inflow	2.4
Sw channel 1.6	Lag	Combined Inflow	2.4
Downchute 6	Lag	Combined Inflow	0.5
N channel 1.1	Lag	Combined Inflow	2.4
N channel 1.2	Lag	Combined Inflow	2.4
Downchute 3.1	Lag	Combined Inflow	0.5

Global Results Summary

Hydrologic Element	Drainage Area (MI ²)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
NW - 6	0.03	0.81	01Aug2024, 12:30	0.17
NW - 11	0.01	0.31	01Aug2024, 12:30	0.17

Downchute 2.1	0.04	1.13	01Aug2024, 12:30	0.17
NW - 7	0	0.15	01Aug2024, 12:30	0.17
NW - 12	0	0.13	01Aug2024, 12:15	0.17
Junction 2.1	0.04	1.4	01Aug2024, 12:30	0.17
Downchute 2.2	0.04	1.4	01Aug2024, 12:30	0.17
NW - 8	0	0.13	01Aug2024, 12:15	0.17
NW - 13	0	0.12	01Aug2024, 12:15	0.17
Junction 2.2	0.05	1.63	01Aug2024, 12:30	0.17
Downchute 2.3	0.05	1.63	01Aug2024, 12:30	0.17
NW - 9	0	0.12	01Aug2024, 12:15	0.17
NW - 14	0	0.11	01Aug2024, 12:15	0.17
Junction 2.3	0.06	1.83	01Aug2024, 12:30	0.17
Downchute 2.4	0.06	1.83	01Aug2024, 12:30	0.17
NW - 10	0	0.11	01Aug2024, 12:15	0.17
NW - 15	0	0.1	01Aug2024, 12:15	0.17
Junction 2.4	0.06	1.99	01Aug2024, 12:30	0.17
NW - 18	0	0.06	01Aug2024, 12:15	0.17
NW - 17	0	0.05	01Aug2024, 12:00	0.17
Junction 3.1	0	0.05	01Aug2024, 12:00	0.17
Downchute 3.2	0	0.05	01Aug2024, 12:00	0.17
Junction 3.2	0	0.11	01Aug2024, 12:00	0.17
Downchute 3.3	0	0.11	01Aug2024, 12:00	0.17
NW - 19	0	0.08	01Aug2024, 12:15	0.17
Junction 3.3	0.01	0.19	01Aug2024, 12:15	0.17
Downchute 3.4	0.01	0.19	01Aug2024, 12:15	0.17
NW - 20	0	0.1	01Aug2024, 12:15	0.17
Junction 3.4	0.01	0.29	01Aug2024, 12:15	0.17
NW - 27	0	0.12	01Aug2024, 12:15	0.17
NW - 24	0	0.1	01Aug2024, 12:15	0.17
Downchute 5.1	0.08	2.49	01Aug2024, 12:15	0.17
NW - 28	0	0.12	01Aug2024, 12:15	0.17
NW - 25	0	0.08	01Aug2024, 12:15	0.17
Junction 5.1	0.08	2.69	01Aug2024, 12:15	0.17
Downchute 5.2	0.08	2.69	01Aug2024, 12:15	0.17
NW - 29	0	0.09	01Aug2024, 12:15	0.17
NW - 26	0	0.07	01Aug2024, 12:00	0.17
Junction 5.2	0.09	2.84	01Aug2024, 12:15	0.17
Downchute 5.3	0.09	2.84	01Aug2024, 12:15	0.17
NW - 1	0	0.01	01Aug2024, 12:00	0.17
NW - 2	0	0.04	01Aug2024, 12:00	0.17
Downchute 1.1	0	0.01	01Aug2024, 12:00	0.17
Junction 1.1	0	0.05	01Aug2024, 12:00	0.17
NW - 3	0	0.06	01Aug2024, 12:00	0.17

Downchute 1.2	0	0.05	01Aug2024, 12:00	0.17
Junction 1.2	0	0.11	01Aug2024, 12:00	0.17
Downchute 1.3	0	0.11	01Aug2024, 12:00	0.17
NW - 4	0	0.08	01Aug2024, 12:15	0.17
Junction 1.3	0	0.17	01Aug2024, 12:15	0.17
Downchute 1.4	0	0.17	01Aug2024, 12:15	0.17
NW - 5	0	0.09	01Aug2024, 12:15	0.17
Junction 1.4	0.01	0.26	01Aug2024, 12:15	0.17
NW - 21	0	0.13	01Aug2024, 12:15	0.17
Downchute 4.1	0.01	0.39	01Aug2024, 12:15	0.17
NW - 22	0	0.12	01Aug2024, 12:15	0.17
Junction - 1	0.01	0.51	01Aug2024, 12:15	0.17
Downchute 4.2	0.01	0.51	01Aug2024, 12:15	0.17
NW - 23	0	0.13	01Aug2024, 12:15	0.17
Junction 4.2	0.02	0.64	01Aug2024, 12:15	0.17
Downchute 4.3	0.02	0.64	01Aug2024, 12:15	0.17
NW - 30	0.01	0.5	01Aug2024, 12:00	0.17
N - 6	0	0.1	01Aug2024, 12:15	0.17
N channel 1.3	0	0	31Jul2024, 24:00	Not specified
N junction 3	0	0.1	01Aug2024, 12:15	0.17
N channel 1.4	0	0.1	01Aug2024, 12:15	0.17
N - 7	0	0.06	01Aug2024, 12:00	0.17
N junction 4	0	0.14	01Aug2024, 12:15	0.17
N channel 1.5	0	0.14	01Aug2024, 12:15	0.17
N - 8	0	0.07	01Aug2024, 12:00	0.17
N junction 5	0.01	0.19	01Aug2024, 12:15	0.17
N channel 1.6	0.01	0.19	01Aug2024, 12:15	0.17
Northwest pond	0.12	0	31Jul2024, 24:00	0
E - 1	0.03	1.19	01Aug2024, 12:15	0.17
East channel	0.03	1.11	01Aug2024, 12:30	0.17
SW - 1	0.03	0.74	01Aug2024, 12:45	0.17
Sw channel 1.1	0.03	0.74	01Aug2024, 12:45	0.17
SW - 2	0.01	0.28	01Aug2024, 12:30	0.17
Sw junction 1	0.04	1	01Aug2024, 12:45	0.17
Sw channel 1.2	0.04	1	01Aug2024, 12:45	0.17
SW - 3	0.01	0.26	01Aug2024, 12:30	0.17
Sw junction 2	0.04	1.23	01Aug2024, 12:45	0.17
Sw channel 1.3	0.04	1.23	01Aug2024, 12:45	0.17
SW - 4	0.01	0.21	01Aug2024, 12:30	0.17
Sw junction 3	0.05	1.41	01Aug2024, 12:45	0.17
Sw channel 1.4	0.05	1.41	01Aug2024, 12:45	0.17
SW - 5	0.01	0.23	01Aug2024, 12:30	0.17
Sw junction 4	0.06	1.6	01Aug2024, 12:45	0.17

Sw channel 1.5	0.06	1.59	01Aug2024, 12:45	0.17
SW - 6	0.04	0	31Jul2024, 24:00	0
Sw junction 5	0.1	1.59	01Aug2024, 12:45	0.1
Sw channel 1.6	0.1	1.57	01Aug2024, 12:45	0.1
SE - 1	0.11	3.94	01Aug2024, 12:30	0.18
Se pond	0.11	3.94	01Aug2024, 12:30	0.18
West channel 1 sink	0.1	1.57	01Aug2024, 12:45	0.1
East pond	0.03	1.11	01Aug2024, 12:30	0.17
N - 1	0.01	0.14	01Aug2024, 12:45	0.17
N - 2	0	0.13	01Aug2024, 12:30	0.17
Downchute 6	0.01	0.26	01Aug2024, 12:45	0.17
N - 9	0.01	0.34	01Aug2024, 12:00	0.17
N - 3	0.01	0.18	01Aug2024, 12:30	0.17
N channel start	0.02	0.68	01Aug2024, 12:30	0.17
N channel 1.1	0.02	0.68	01Aug2024, 12:30	0.17
N - 4	0.01	0.16	01Aug2024, 12:30	0.17
N junction 1	0.01	0.16	01Aug2024, 12:30	0.17
N channel 1.2	0.01	0.16	01Aug2024, 12:30	0.17
N - 5	0	0.14	01Aug2024, 12:15	0.17
N junction 2	0.01	0.28	01Aug2024, 12:30	0.17
NW - 16	0	0.01	01Aug2024, 12:00	0.17
SW - 7	0	0.19	01Aug2024, 12:00	0.17
Downchute 3.1	0	0.01	01Aug2024, 12:00	0.17

Subbasin: NW-6

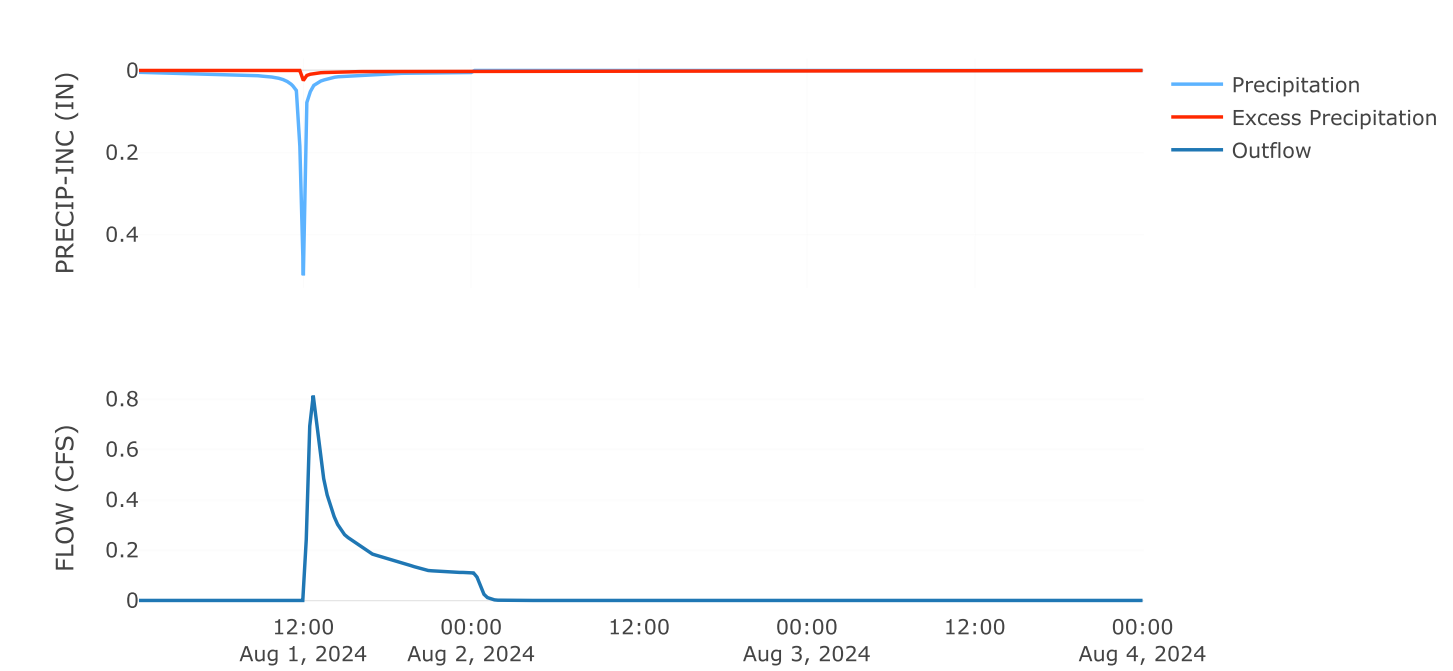
Area (MI²) : 0.03
Downstream : Downchute 2.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	24.3
Unitgraph Type	Standard

Results: NW-6	
Peak Discharge (CFS)	0.81
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	2.46
Loss Volume (AC - FT)	2.23
Excess Volume (AC - FT)	0.23
Direct Runoff Volume (AC - FT)	0.23
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: NW-II

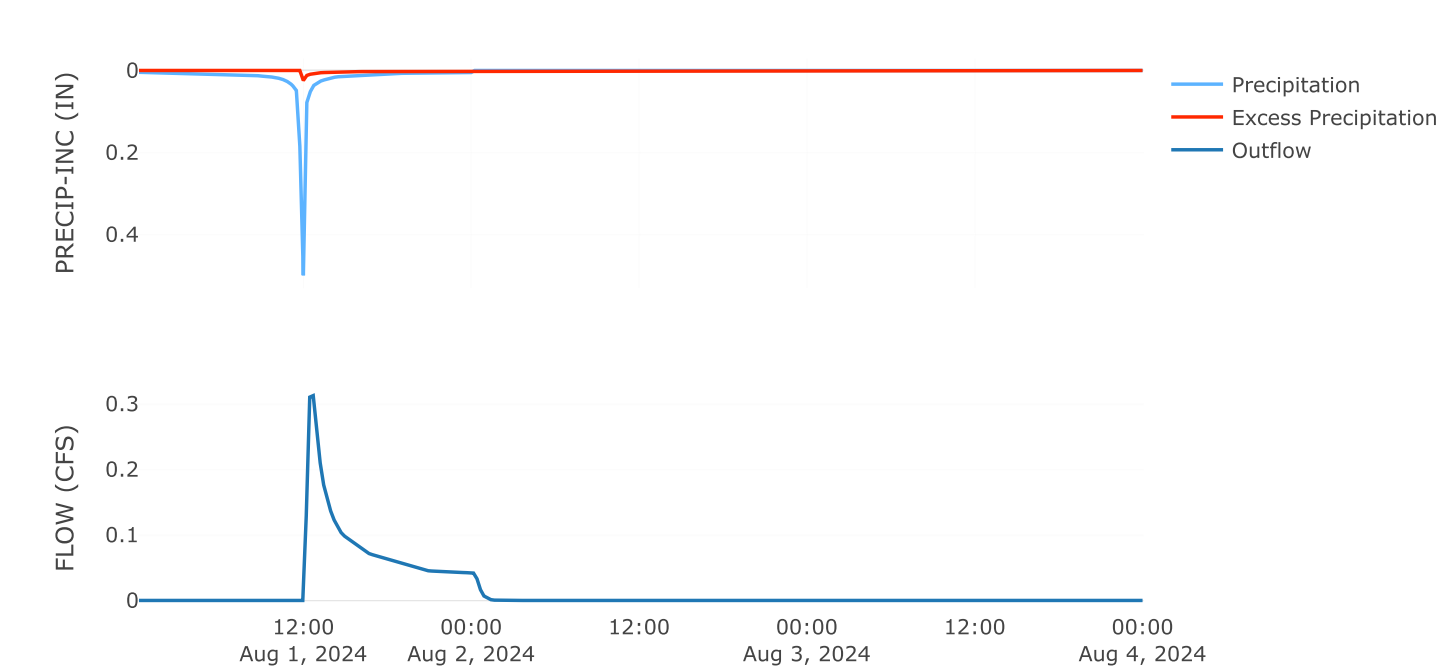
Area (MI²) : 0.01
Downstream : Downchute 2.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	20.9
Unitgraph Type	Standard

Results: NW-II	
Peak Discharge (CFS)	0.31
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.94
Loss Volume (AC - FT)	0.85
Excess Volume (AC - FT)	0.09
Direct Runoff Volume (AC - FT)	0.09
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

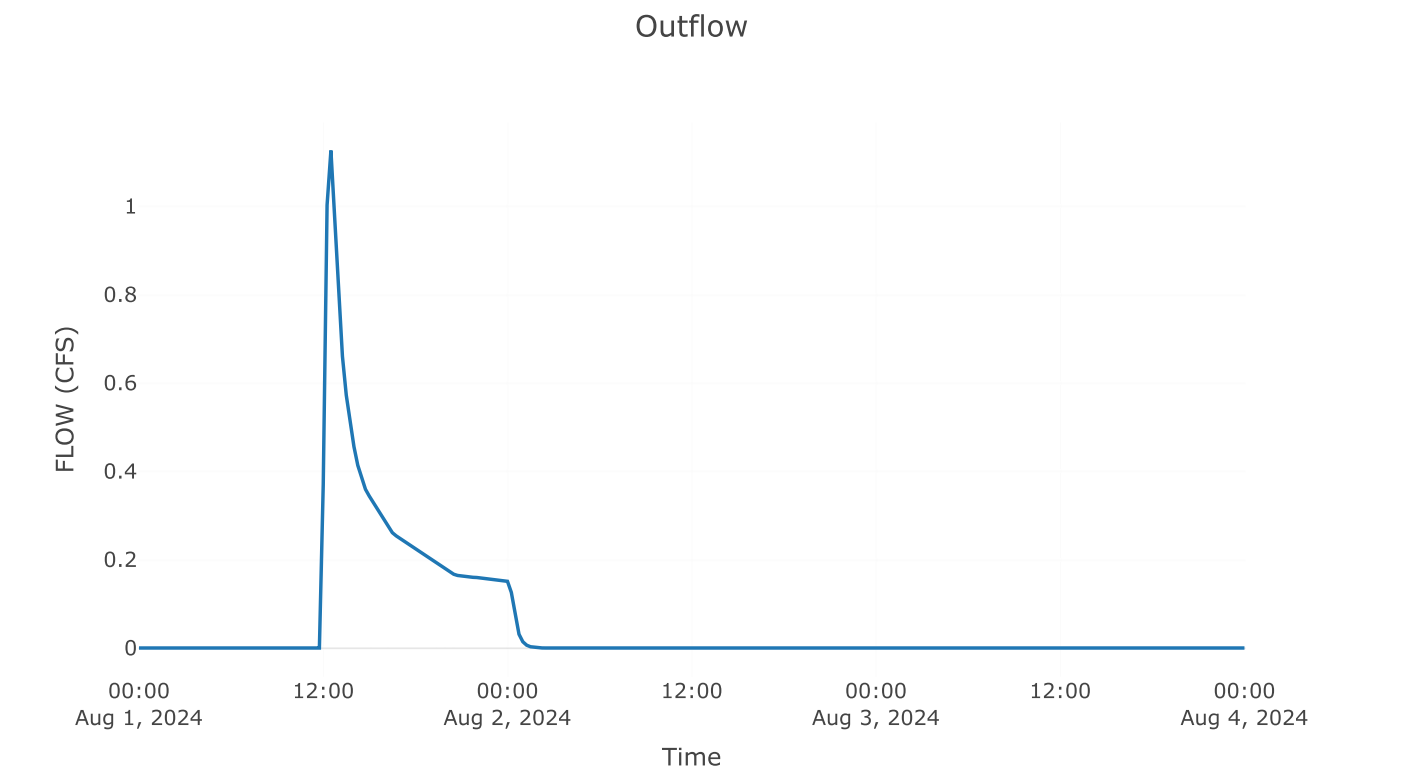


Reach: DOWNCHUTE 2.1

Downstream : Junction 2.1

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 2.1	
Peak Discharge (CFS)	1.13
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	1.13
Inflow Volume (AC - FT)	0.32



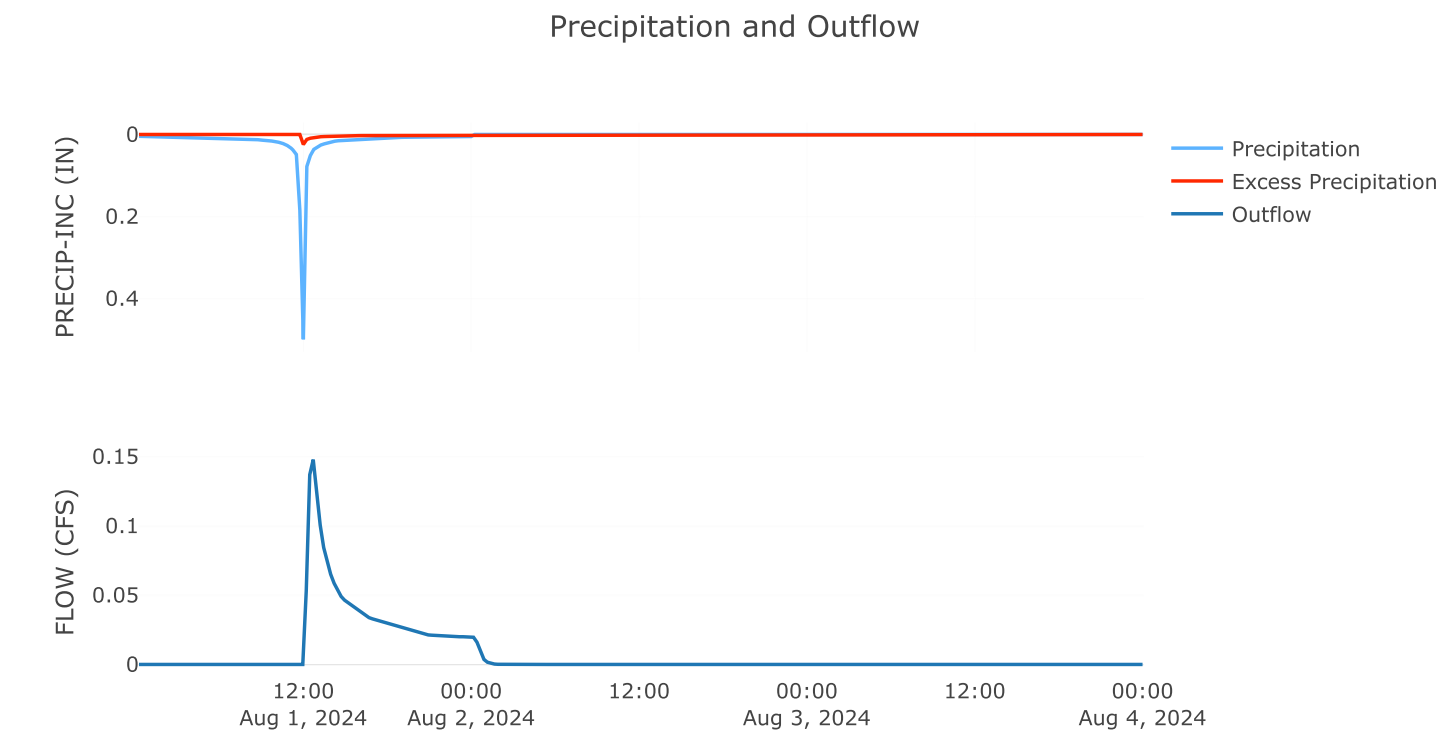
Subbasin: NW-7

Area (MI²) : 0
Downstream : Junction 2.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	22.2
Unitgraph Type	Standard

Results: NW-7	
Peak Discharge (CFS)	0.15
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.44
Loss Volume (AC - FT)	0.4
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0



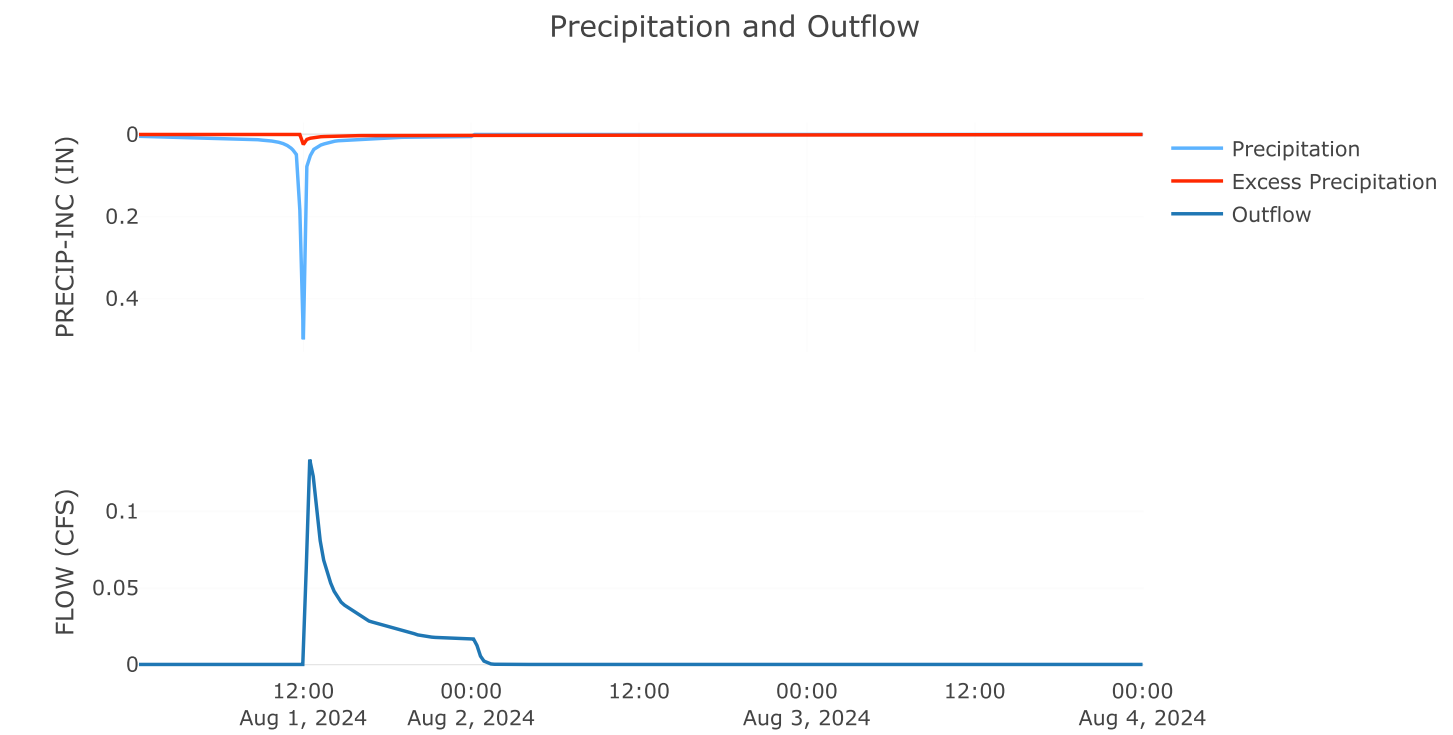
Subbasin: NW-12

Area (MI²) : 0
Downstream : Junction 2.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	19
Unitgraph Type	Standard

Results: NW-12	
Peak Discharge (CFS)	0.13
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.37
Loss Volume (AC - FT)	0.34
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0

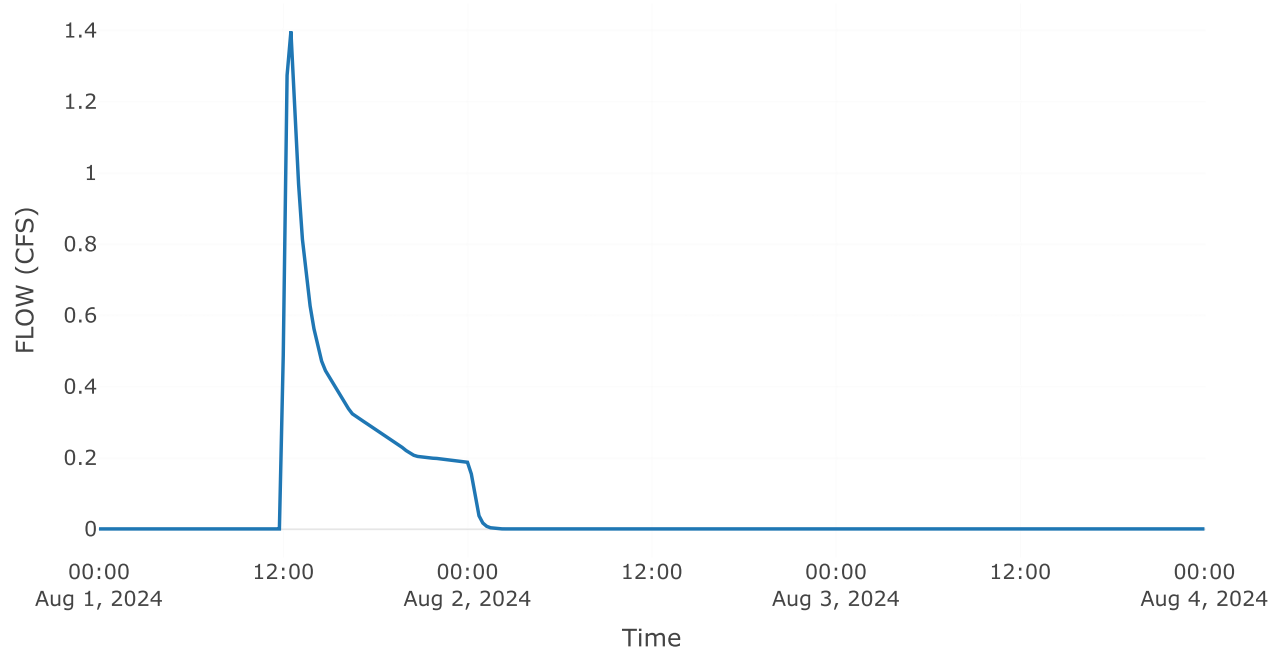


Junction: JUNCTION 2.1

Downstream : Downchute 2.2

Results: JUNCTION 2.1	
Peak Discharge (CFS)	1.4
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

Outflow

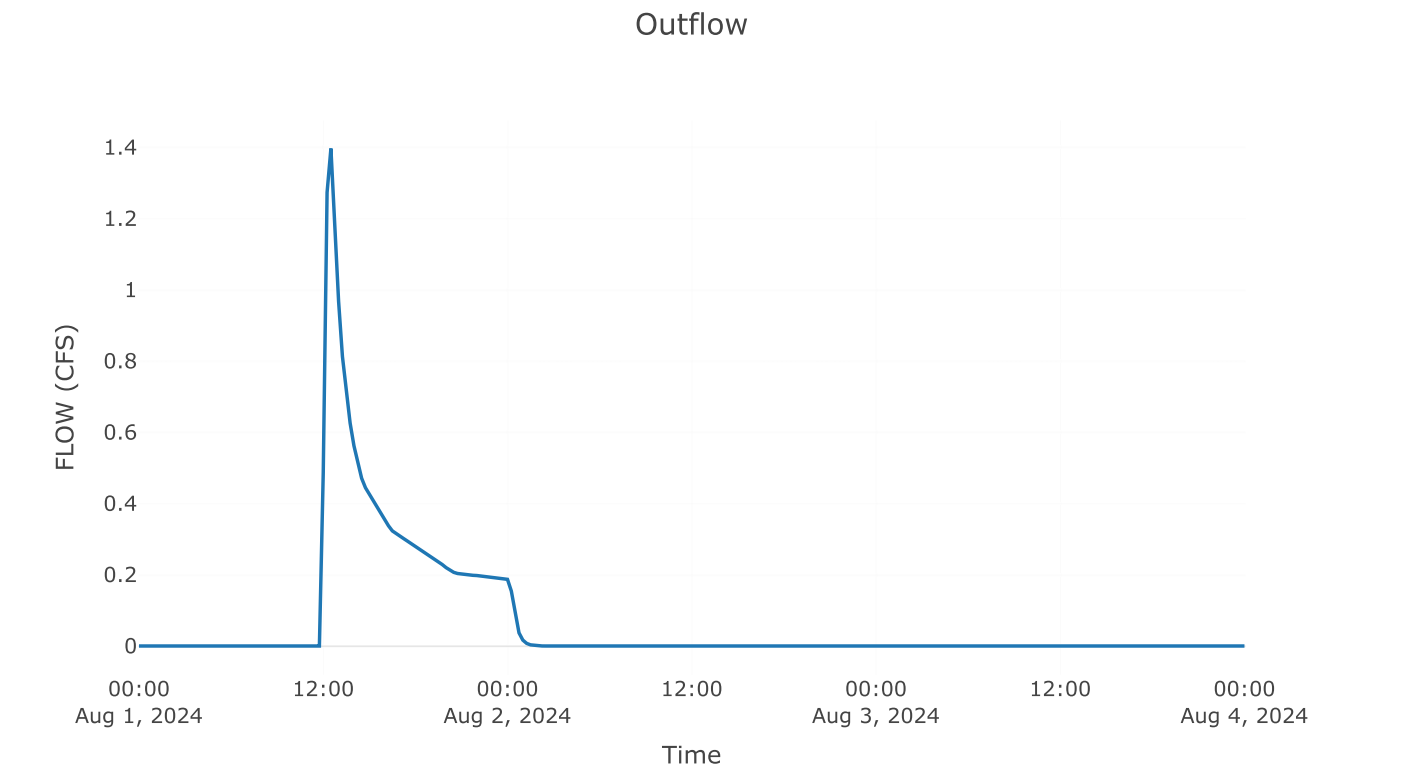


Reach: DOWNCHUTE 2.2

Downstream : Junction 2.2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 2.2	
Peak Discharge (CFS)	1.4
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	1.4
Inflow Volume (AC - FT)	0.4



Subbasin: NW-8

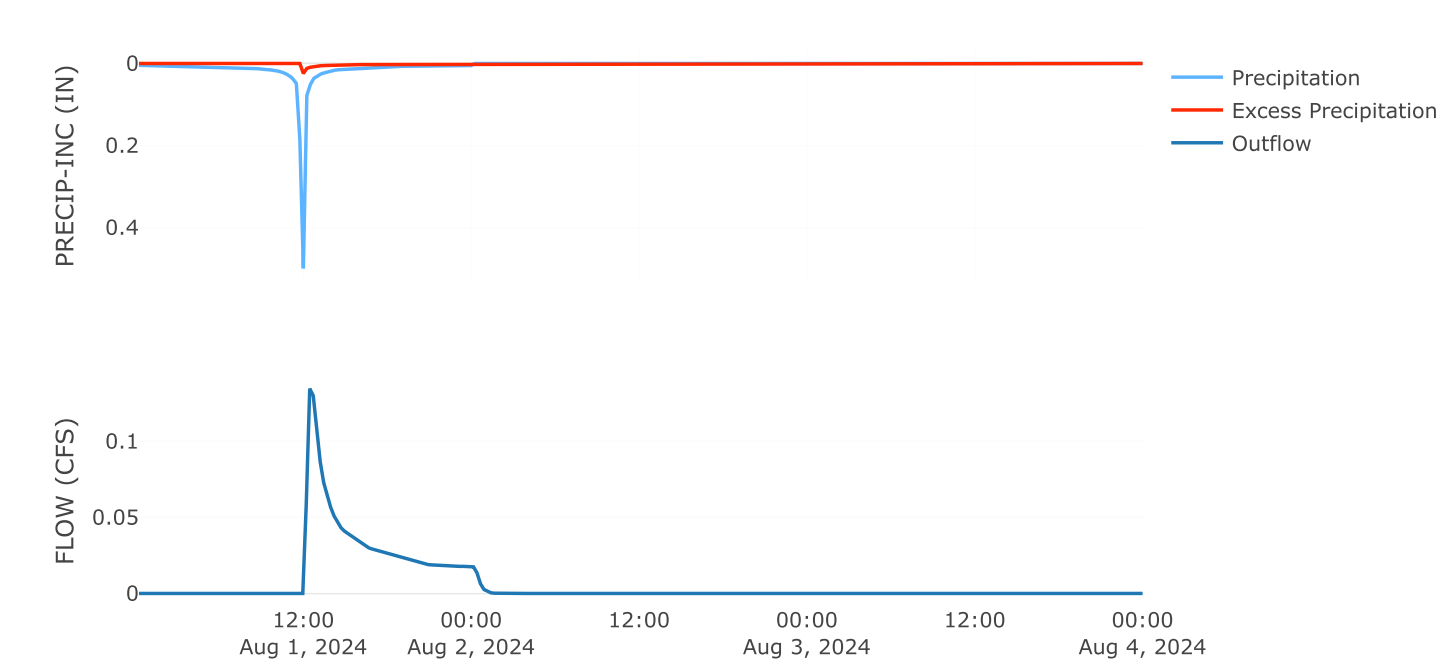
Area (MI²) : 0
Downstream : Junction 2.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	20.1
Unitgraph Type	Standard

Results: NW-8	
Peak Discharge (CFS)	0.13
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.39
Loss Volume (AC - FT)	0.36
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: NW-13

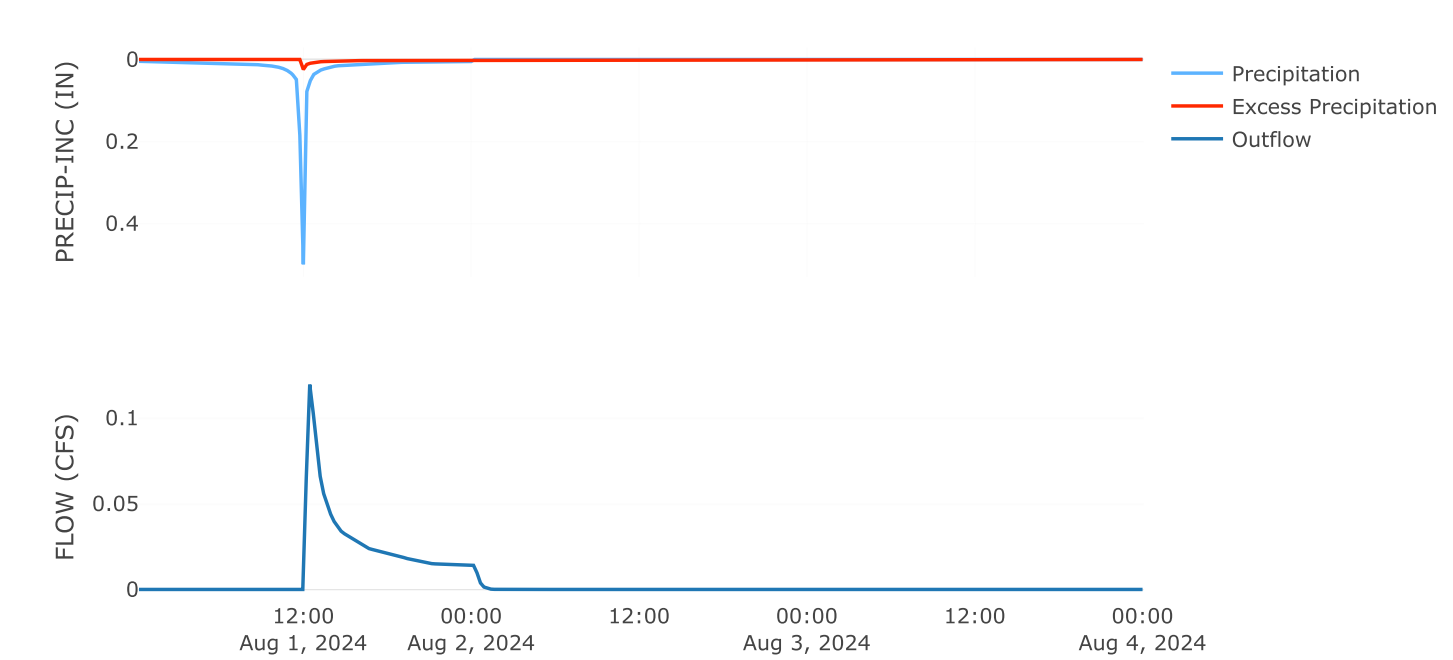
Area (MI²) : 0
Downstream : Junction 2.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	17.1
Unitgraph Type	Standard

Results: NW-13	
Peak Discharge (CFS)	0.12
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.32
Loss Volume (AC - FT)	0.29
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0

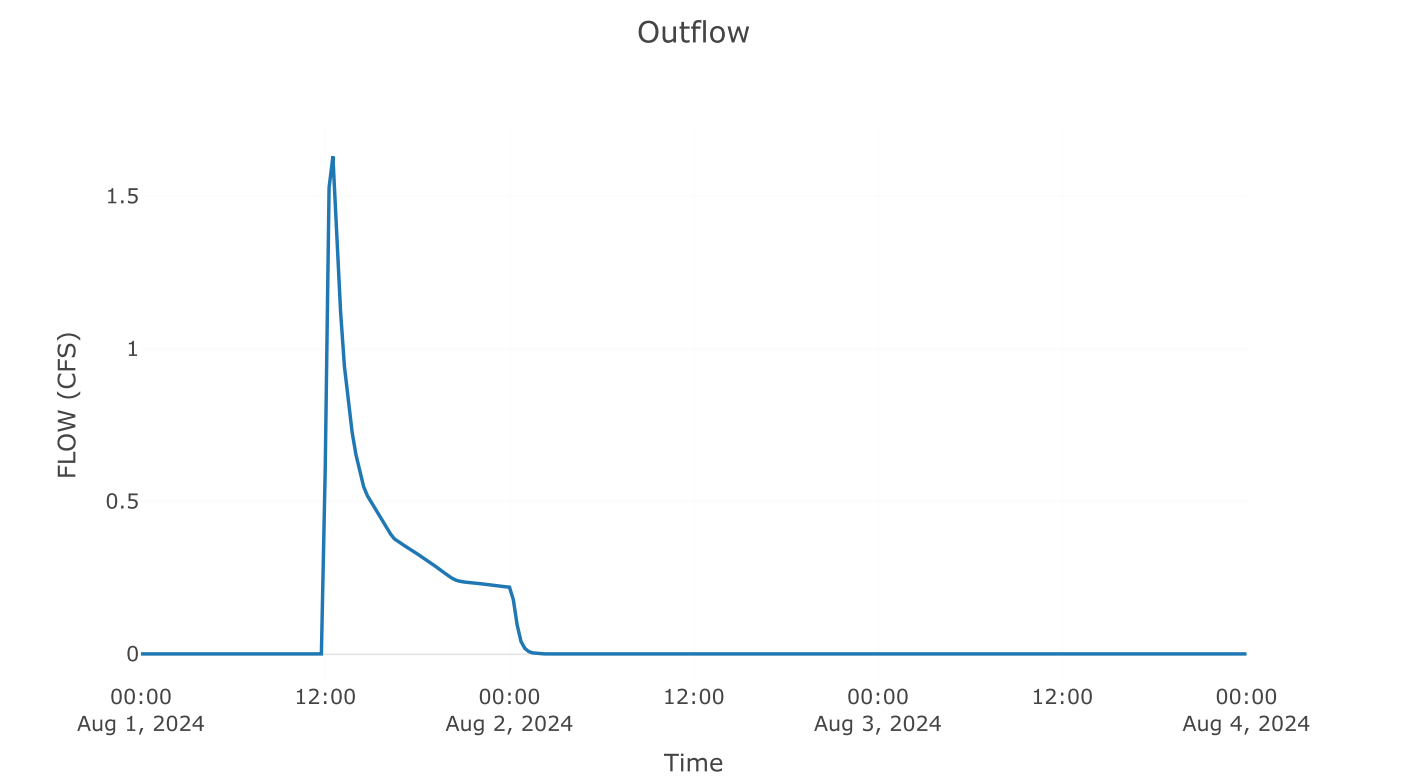
Precipitation and Outflow



Junction: JUNCTION 2.2

Downstream : Downchute 2.3

Results: JUNCTION 2.2	
Peak Discharge (CFS)	1.63
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

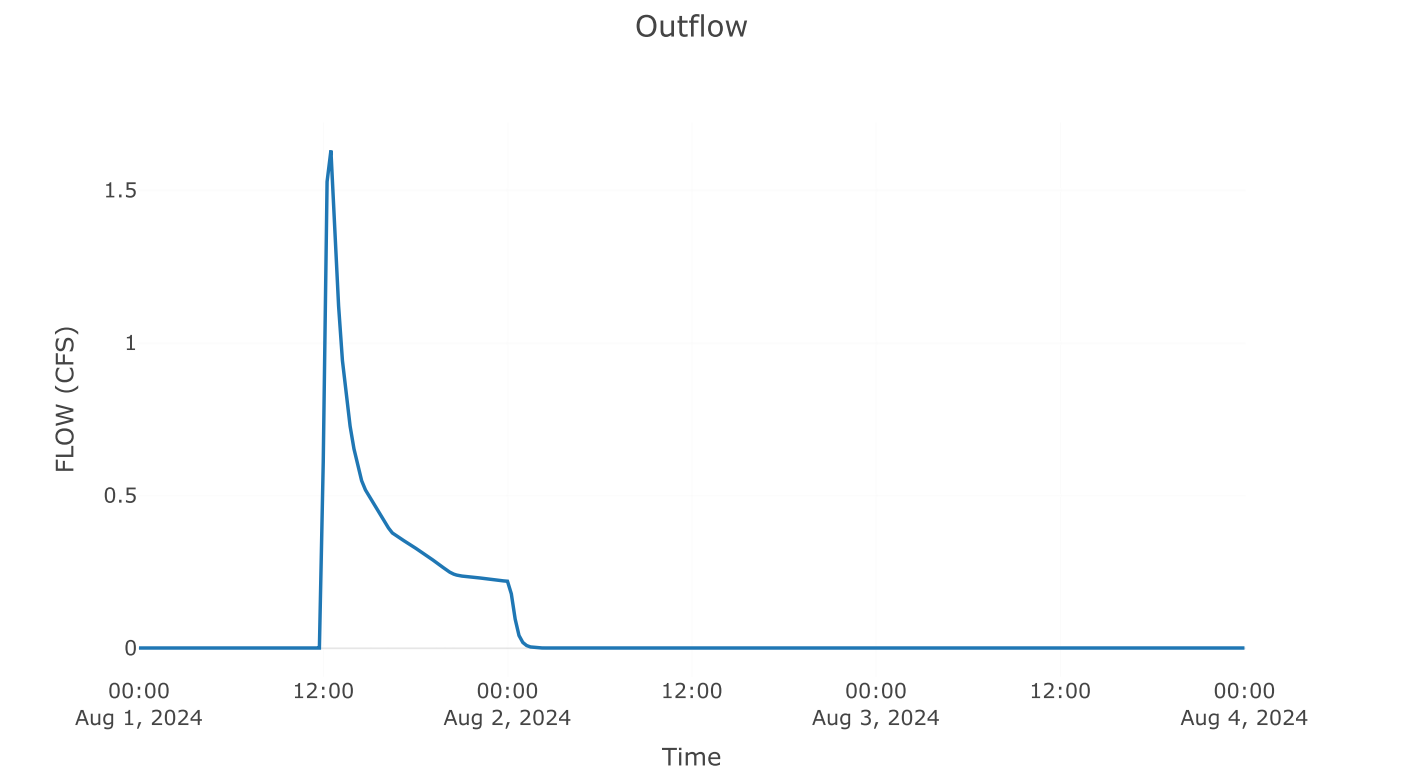


Reach: DOWNCHUTE 2.3

Downstream : Junction 2.3

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 2.3	
Peak Discharge (CFS)	1.63
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	1.63
Inflow Volume (AC - FT)	0.47



Subbasin: NW-9

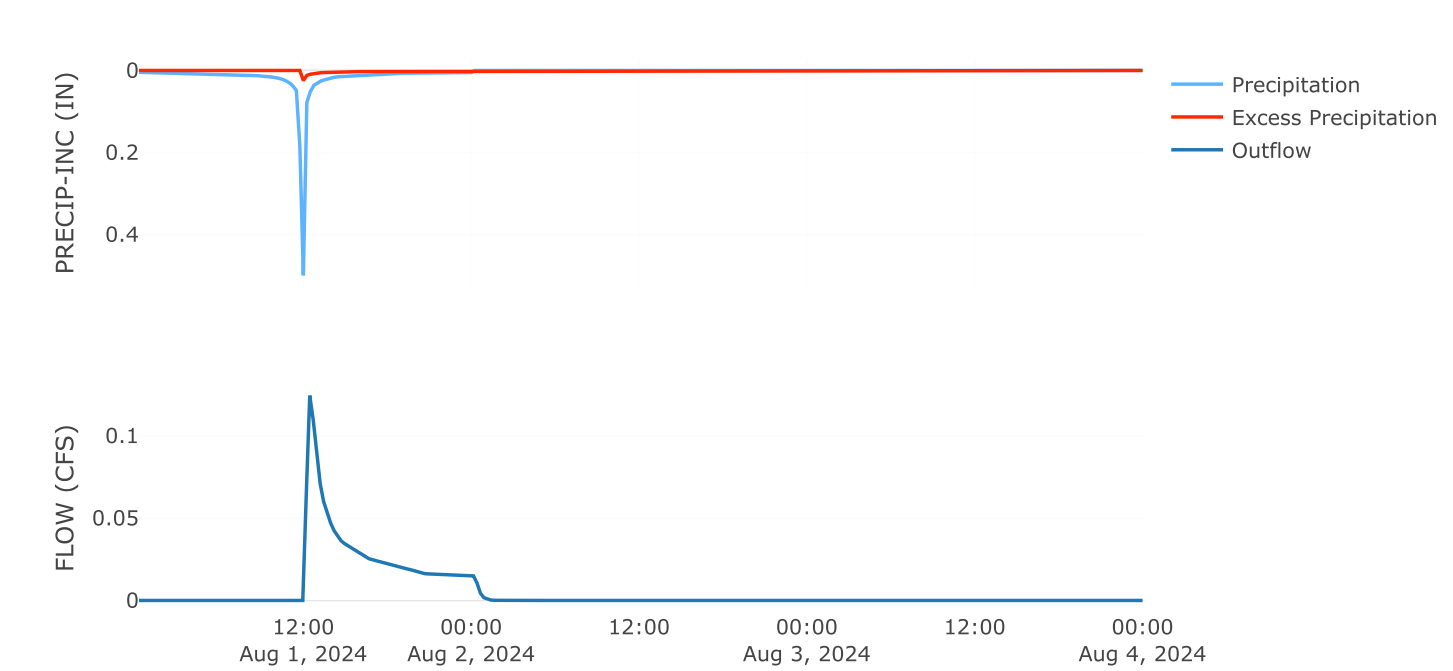
Area (MI²) : 0
Downstream : Junction 2.3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	17.8
Unitgraph Type	Standard

Results: NW-9	
Peak Discharge (CFS)	0.12
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.34
Loss Volume (AC - FT)	0.3
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



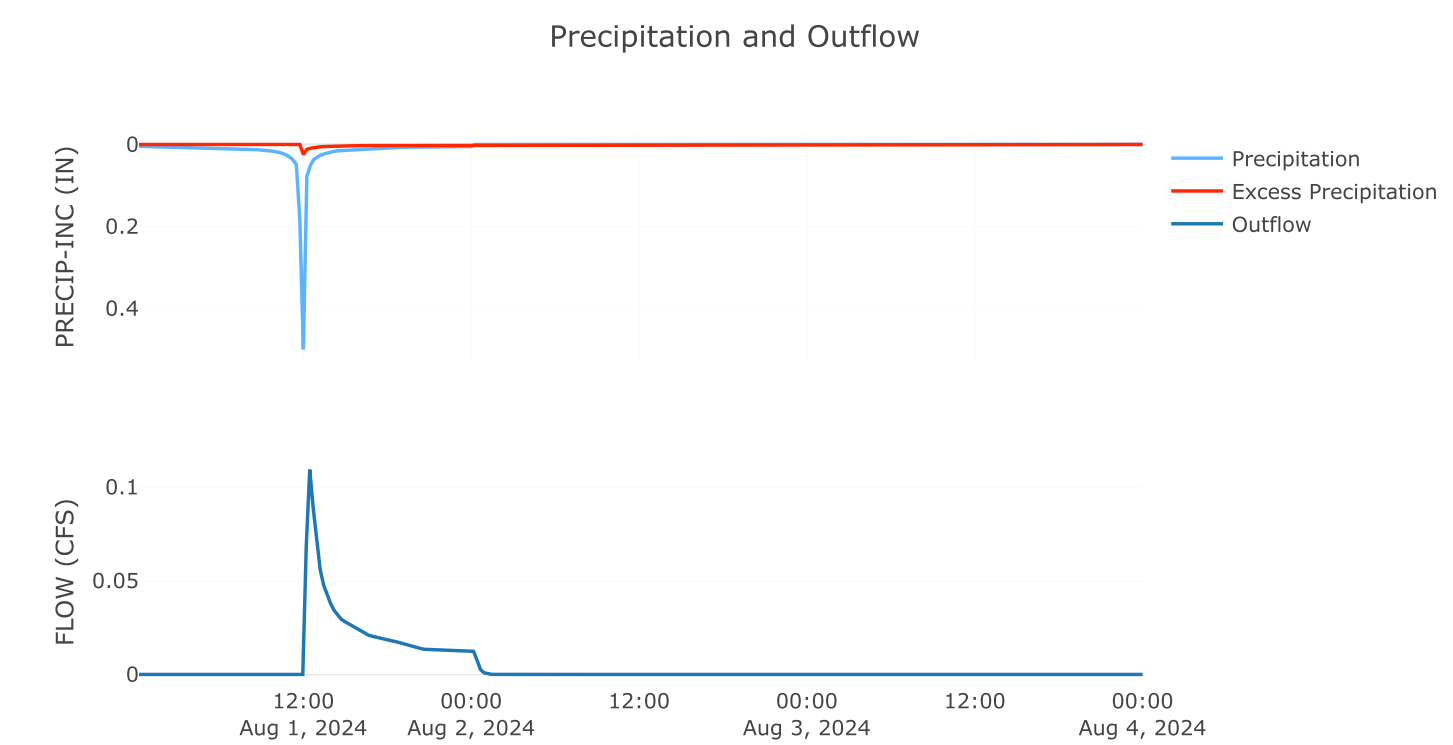
Subbasin: NW-14

Area (MI²) : 0
Downstream : Junction 2.3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	15.2
Unitgraph Type	Standard

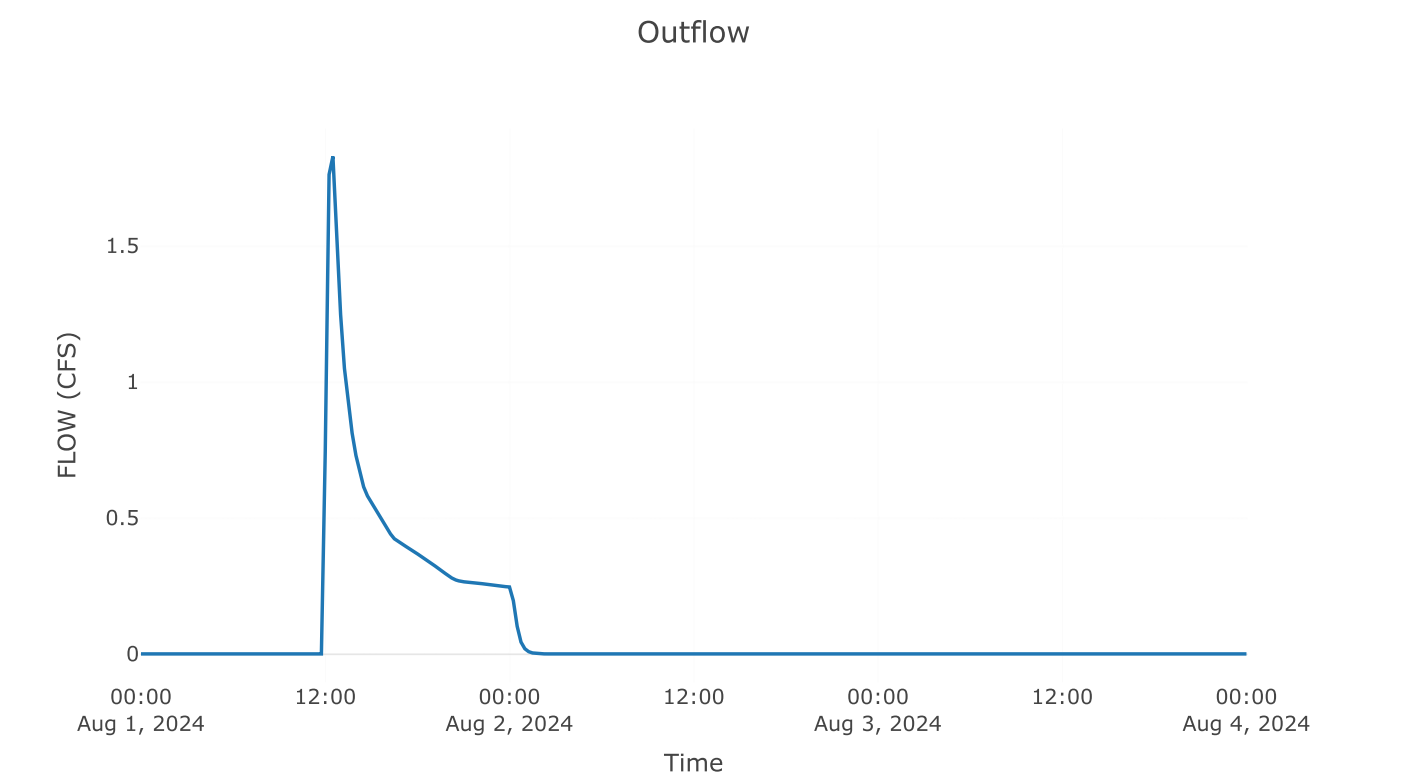
Results: NW-14	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.28
Loss Volume (AC - FT)	0.25
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0



Junction: JUNCTION 2.3

Downstream : Downchute 2.4

Results: JUNCTION 2.3	
Peak Discharge (CFS)	1.83
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

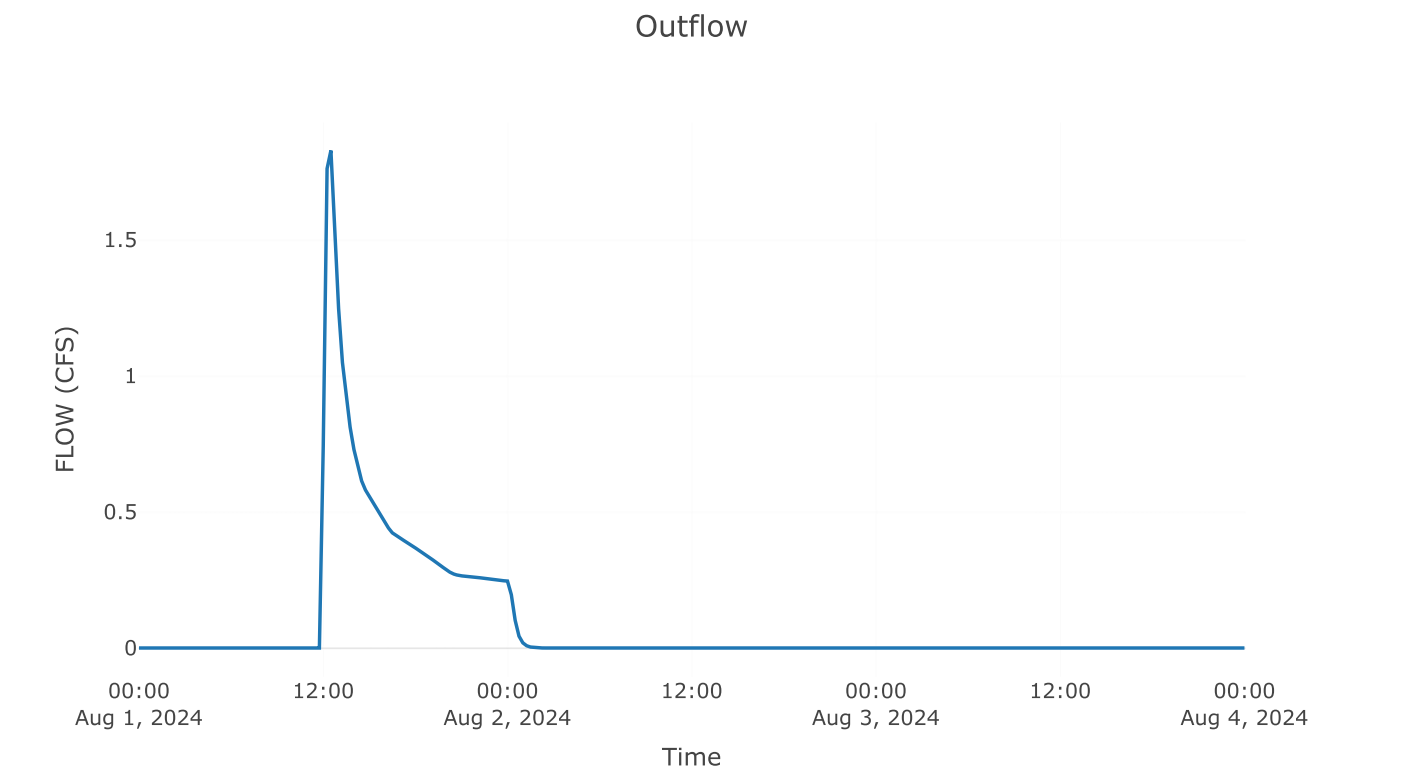


Reach: DOWNCHUTE 2.4

Downstream : Junction 2.4

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.2

Results: DOWNCHUTE 2.4	
Peak Discharge (CFS)	1.83
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	1.83
Inflow Volume (AC - FT)	0.52



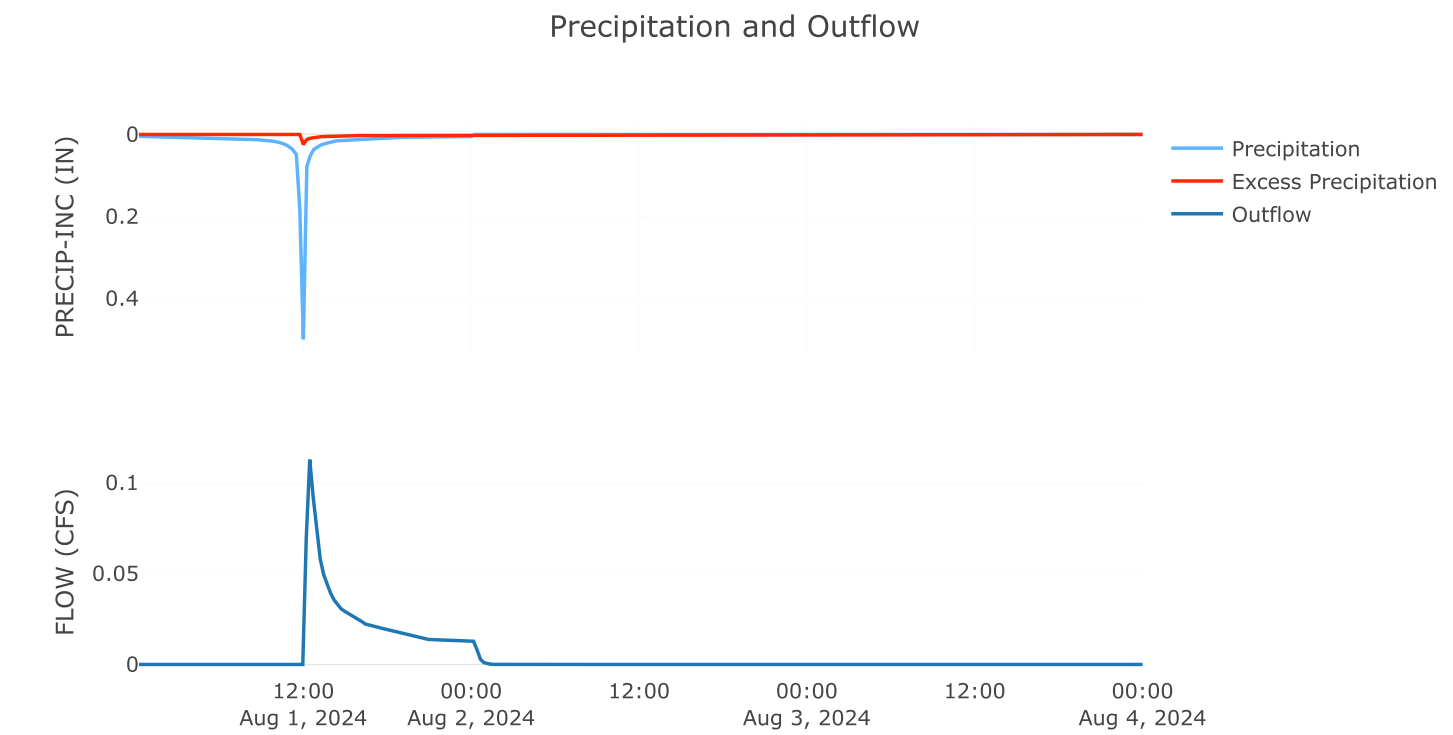
Subbasin: NW-10

Area (MI²) : 0
Downstream : Junction 2.4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	15.4
Unitgraph Type	Standard

Results: NW-10	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01 Aug 2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.29
Loss Volume (AC - FT)	0.26
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0



Subbasin: NW-15

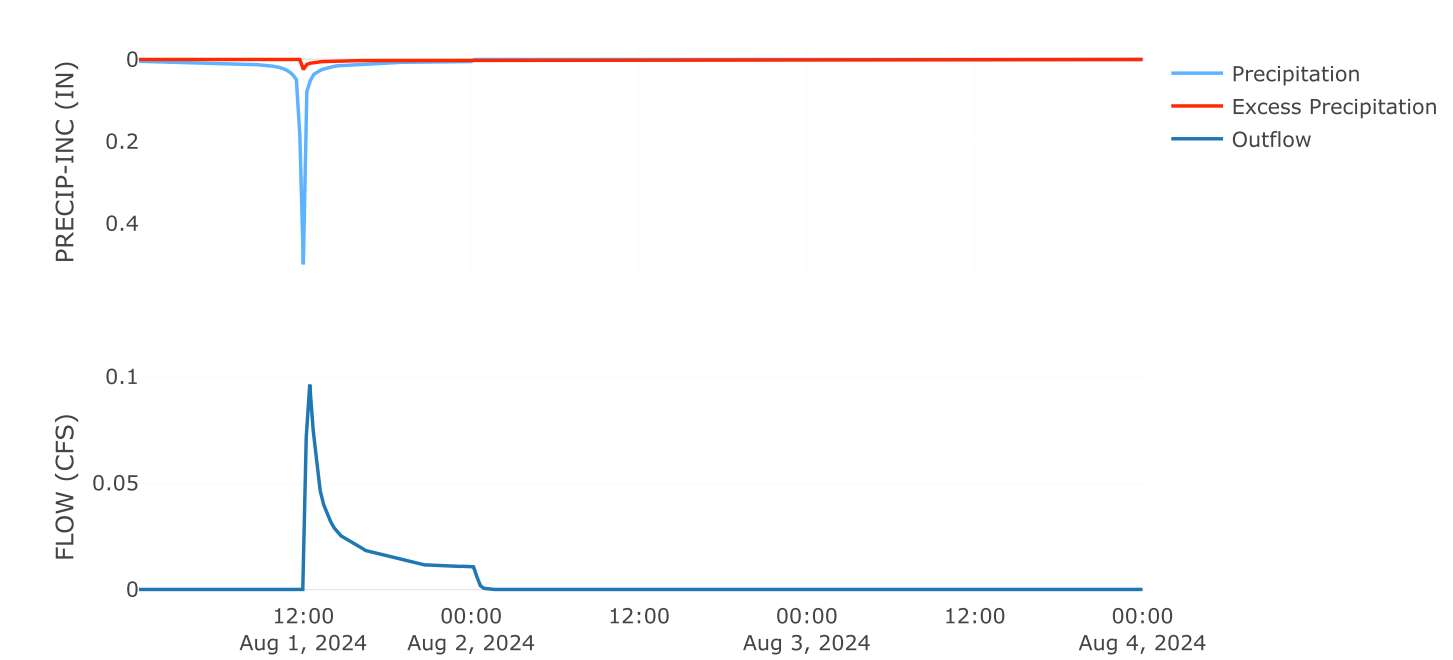
Area (MI²) : 0
Downstream : Junction 2.4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	13.1
Unitgraph Type	Standard

Results: NW-15	
Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.24
Loss Volume (AC - FT)	0.22
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



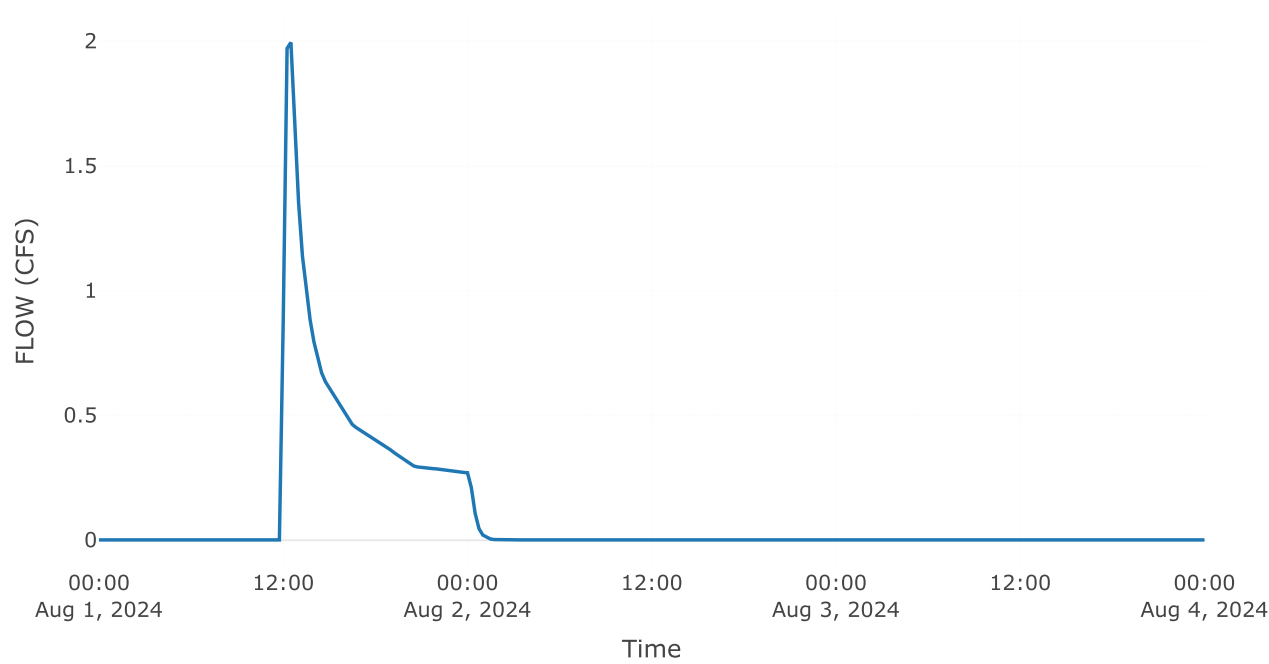
Junction: JUNCTION 2.4

Downstream : Downchute 5.1

Results: JUNCTION 2.4

Peak Discharge (CFS)	1.99
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

Outflow



Subbasin: NW-18

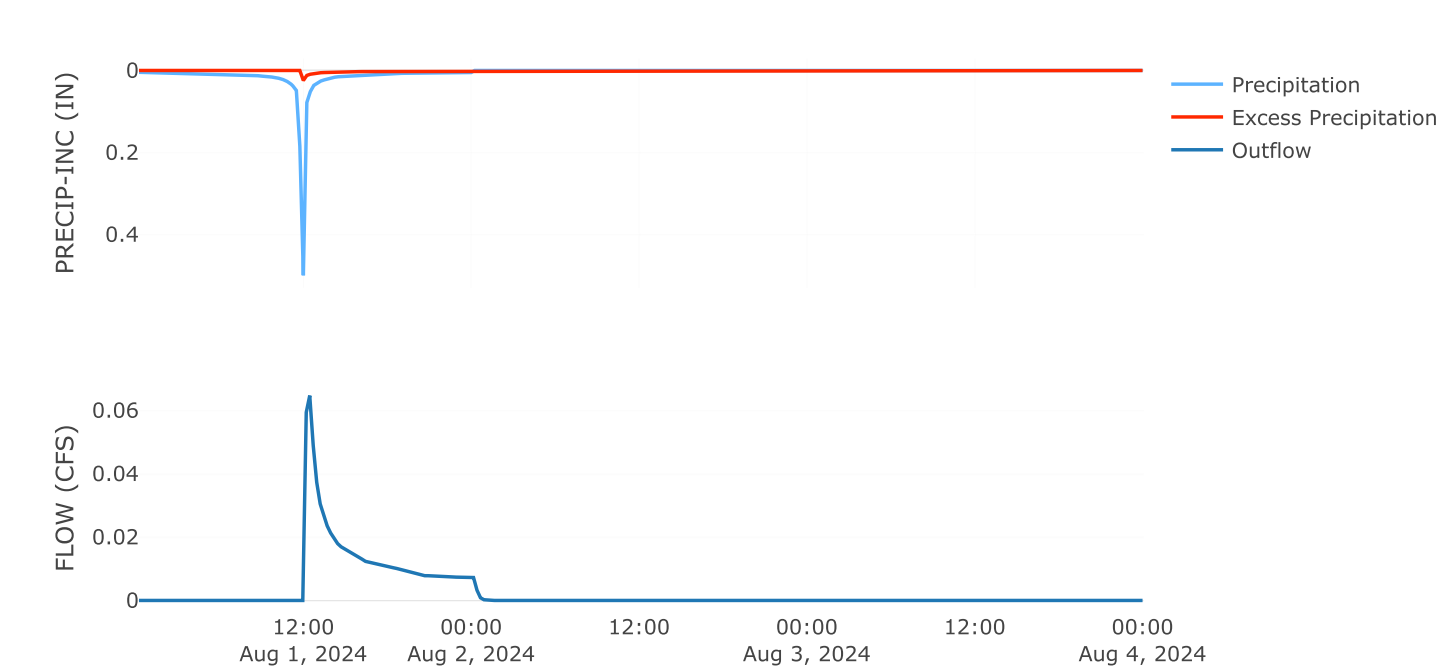
Area (MI²) : 0
Downstream : Junction 3.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	11.2
Unitgraph Type	Standard

Results: NW-18	
Peak Discharge (CFS)	0.06
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.16
Loss Volume (AC - FT)	0.15
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: NW-17

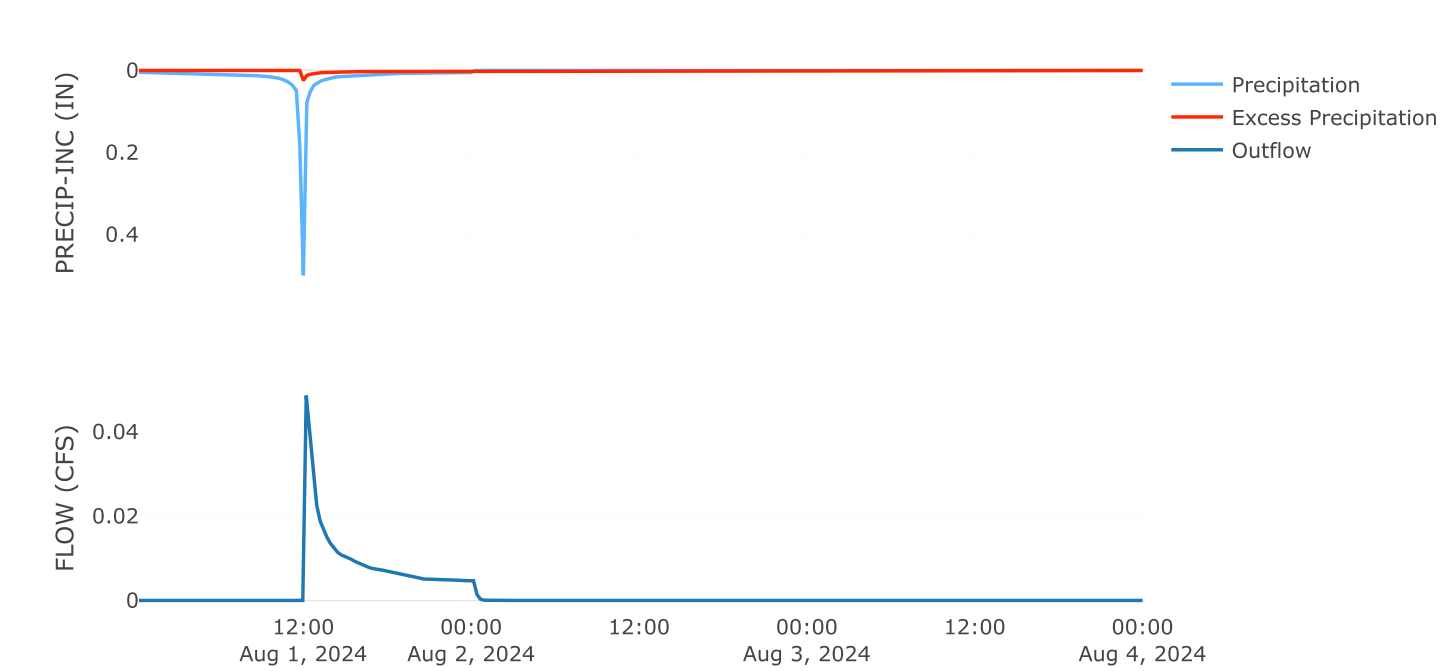
Area (MI²) : 0
Downstream : Junction 3.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	8.4
Unitgraph Type	Standard

Results: NW-17	
Peak Discharge (CFS)	0.05
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.11
Loss Volume (AC - FT)	0.1
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

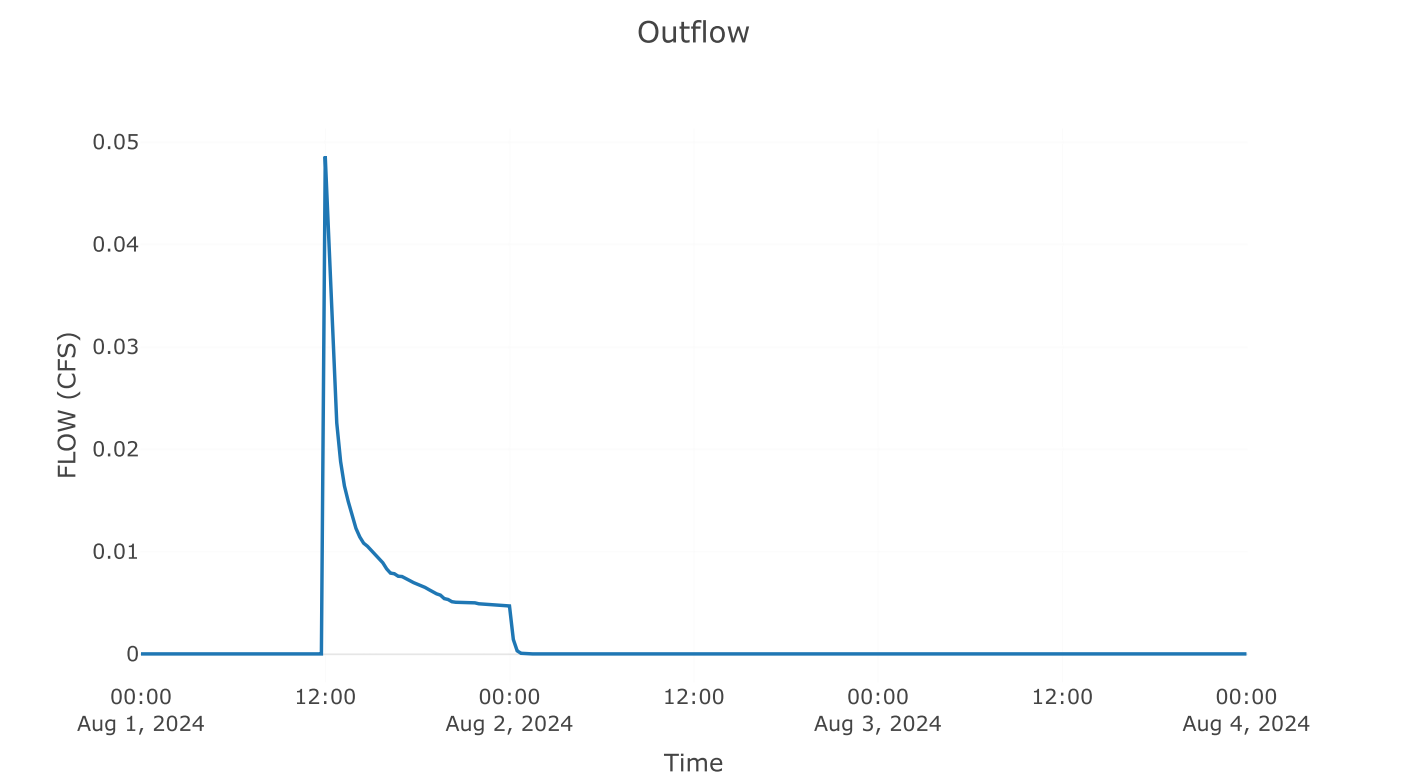
Precipitation and Outflow



Junction: JUNCTION 3.1

Downstream : Downchute 3.2

Results: JUNCTION 3.1	
Peak Discharge (CFS)	0.05
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17

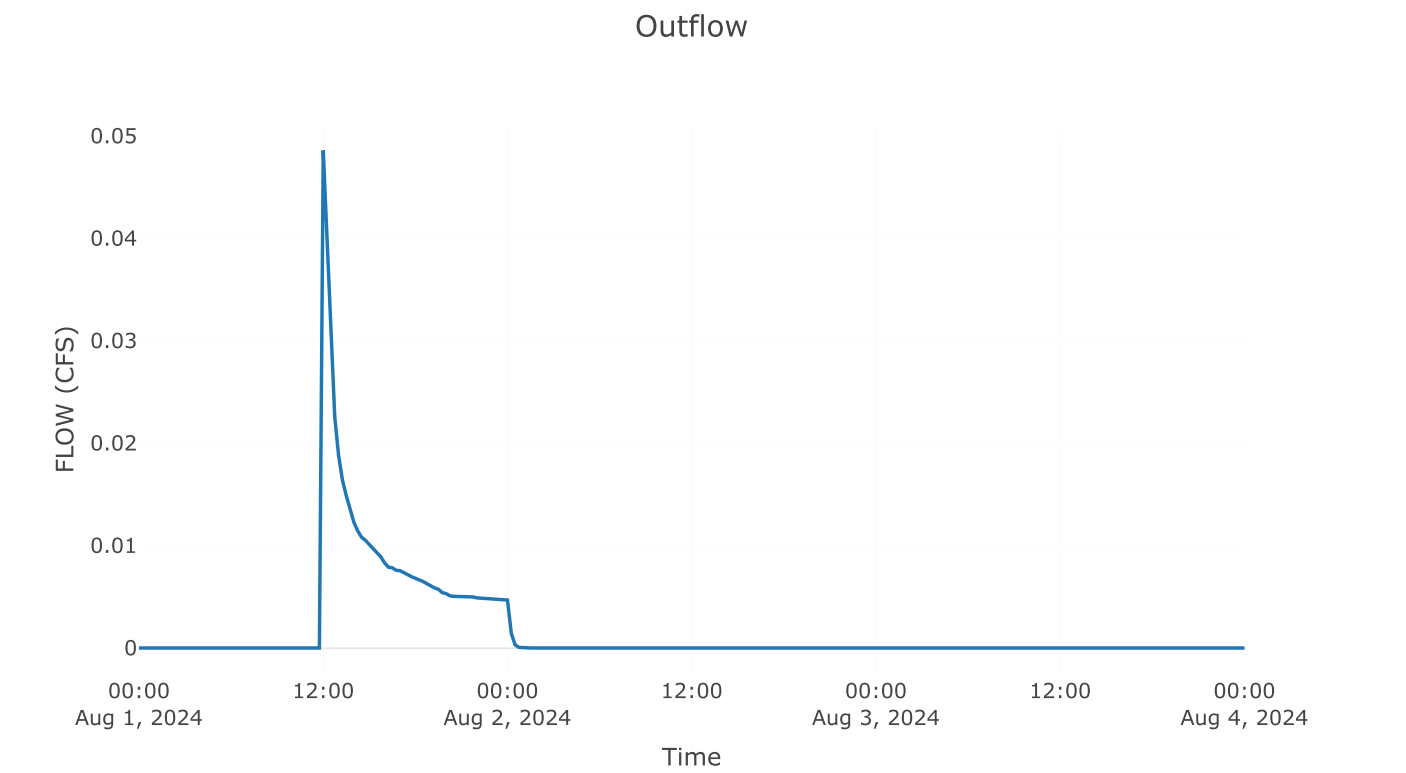


Reach: DOWNCHUTE 3.2

Downstream : Junction 3.2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

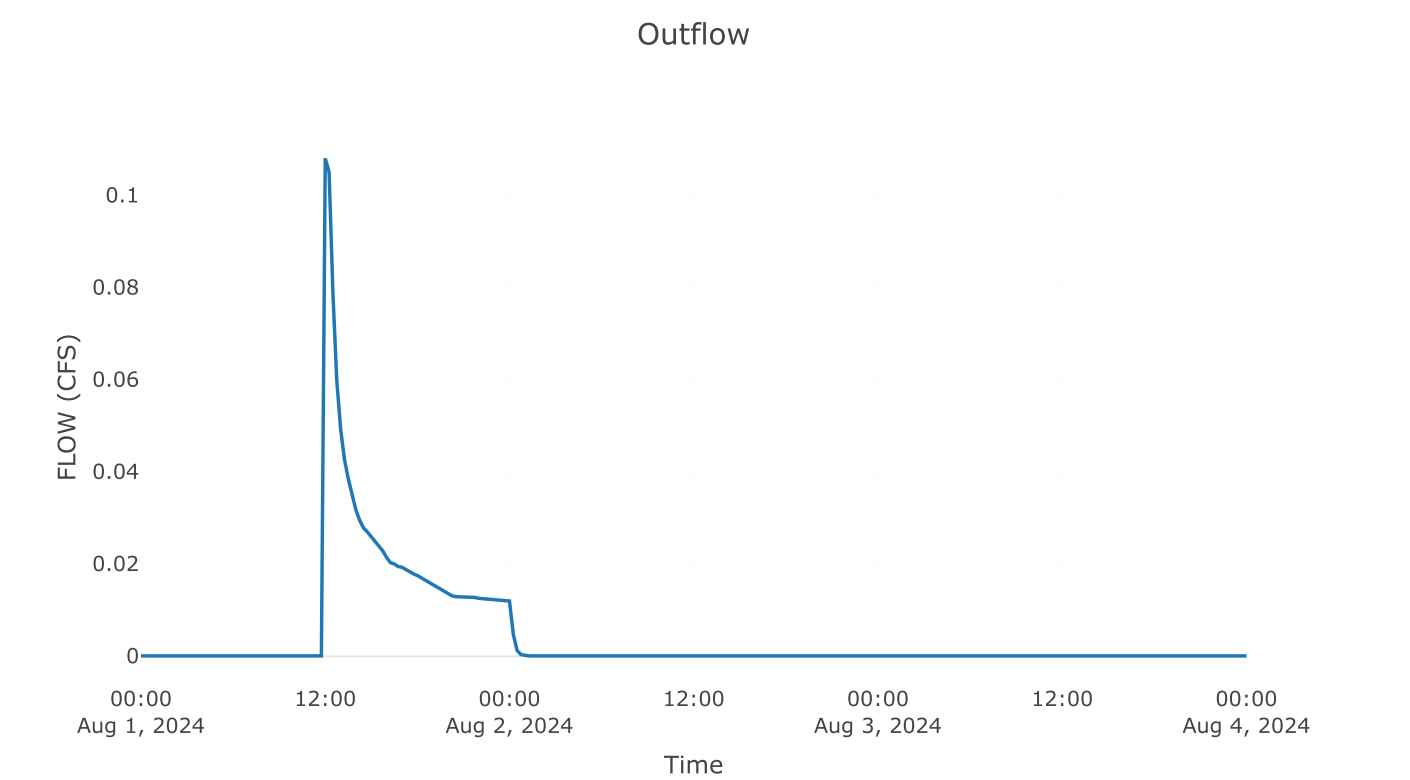
Results: DOWNCHUTE 3.2	
Peak Discharge (CFS)	0.05
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.05
Inflow Volume (AC - FT)	0.01



Junction: JUNCTION 3.2

Downstream : Downchute 3.3

Results: JUNCTION 3.2	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17

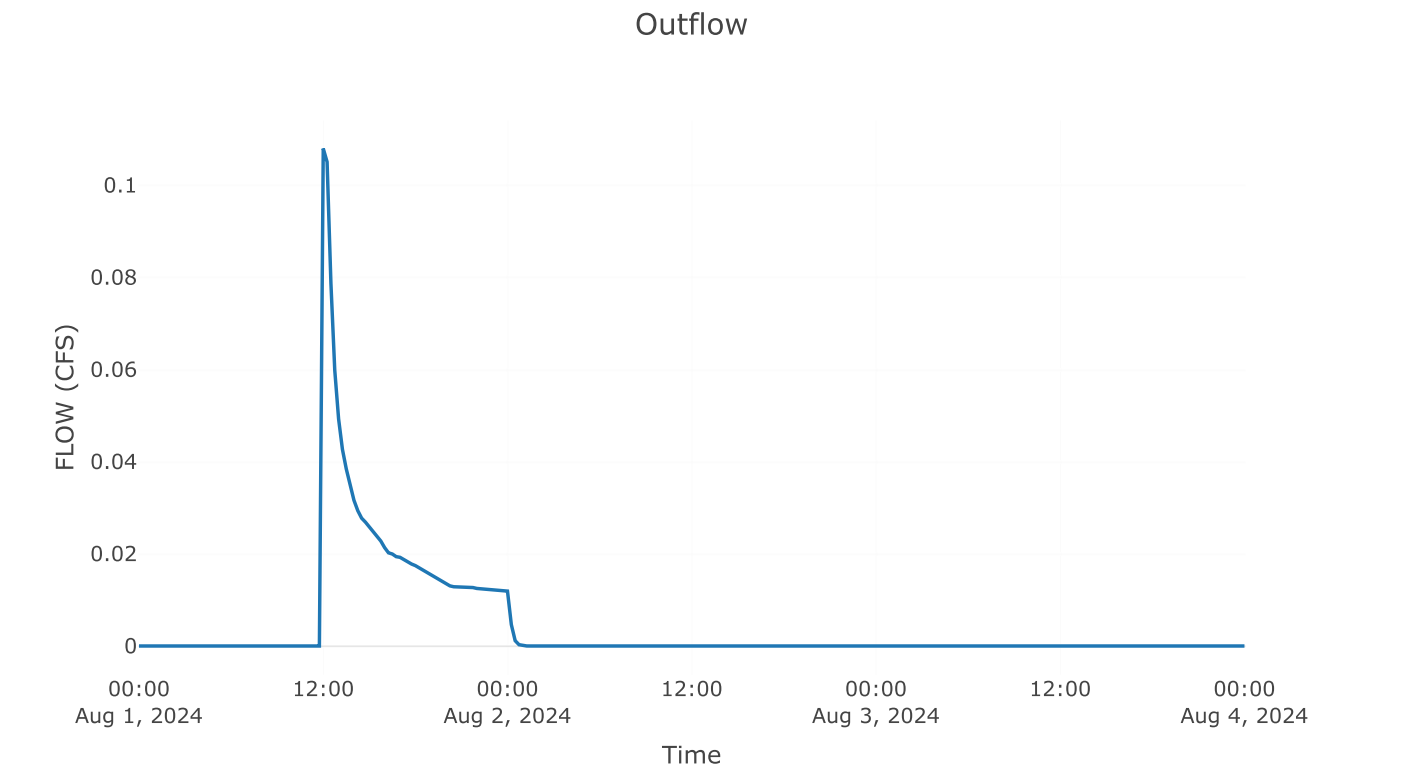


Reach: DOWNCHUTE 3.3

Downstream : Junction 3.3

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 3.3	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.11
Inflow Volume (AC - FT)	0.03



Subbasin: NW-19

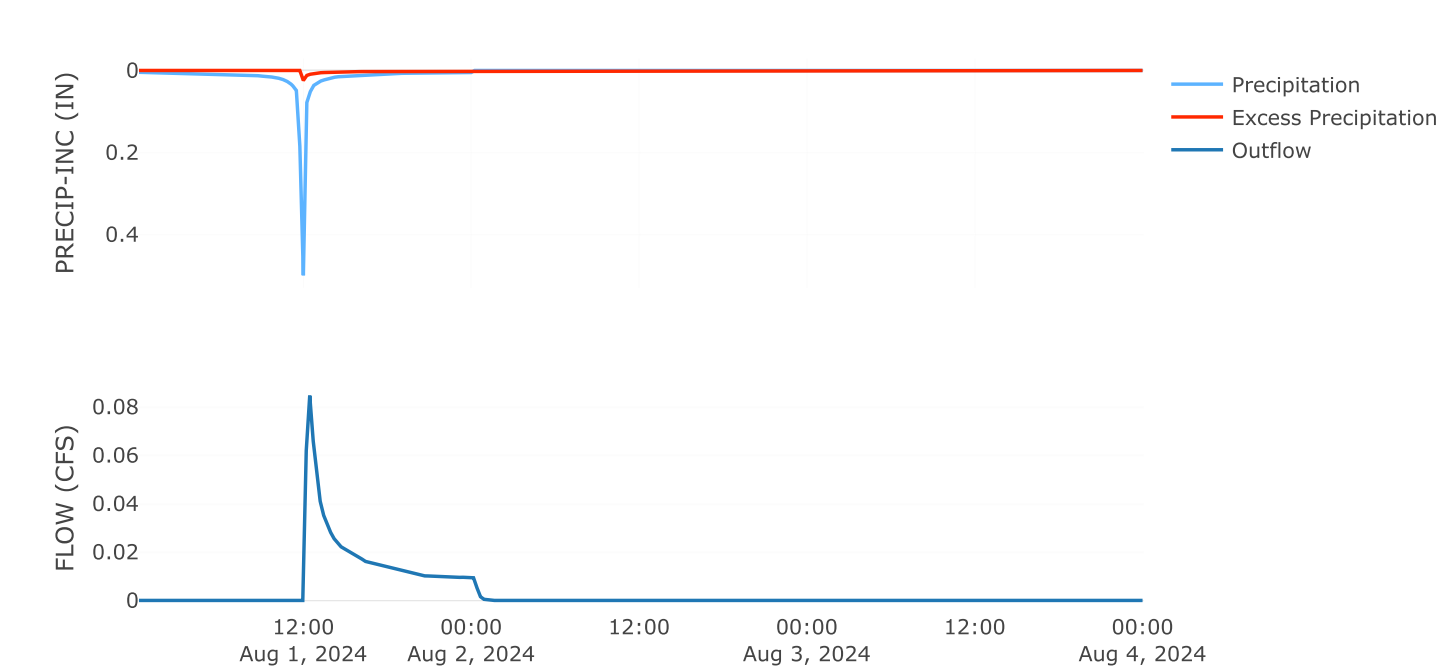
Area (MI²) : 0
Downstream : Junction 3.3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	13.3
Unitgraph Type	Standard

Results: NW-19	
Peak Discharge (CFS)	0.08
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.21
Loss Volume (AC - FT)	0.19
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

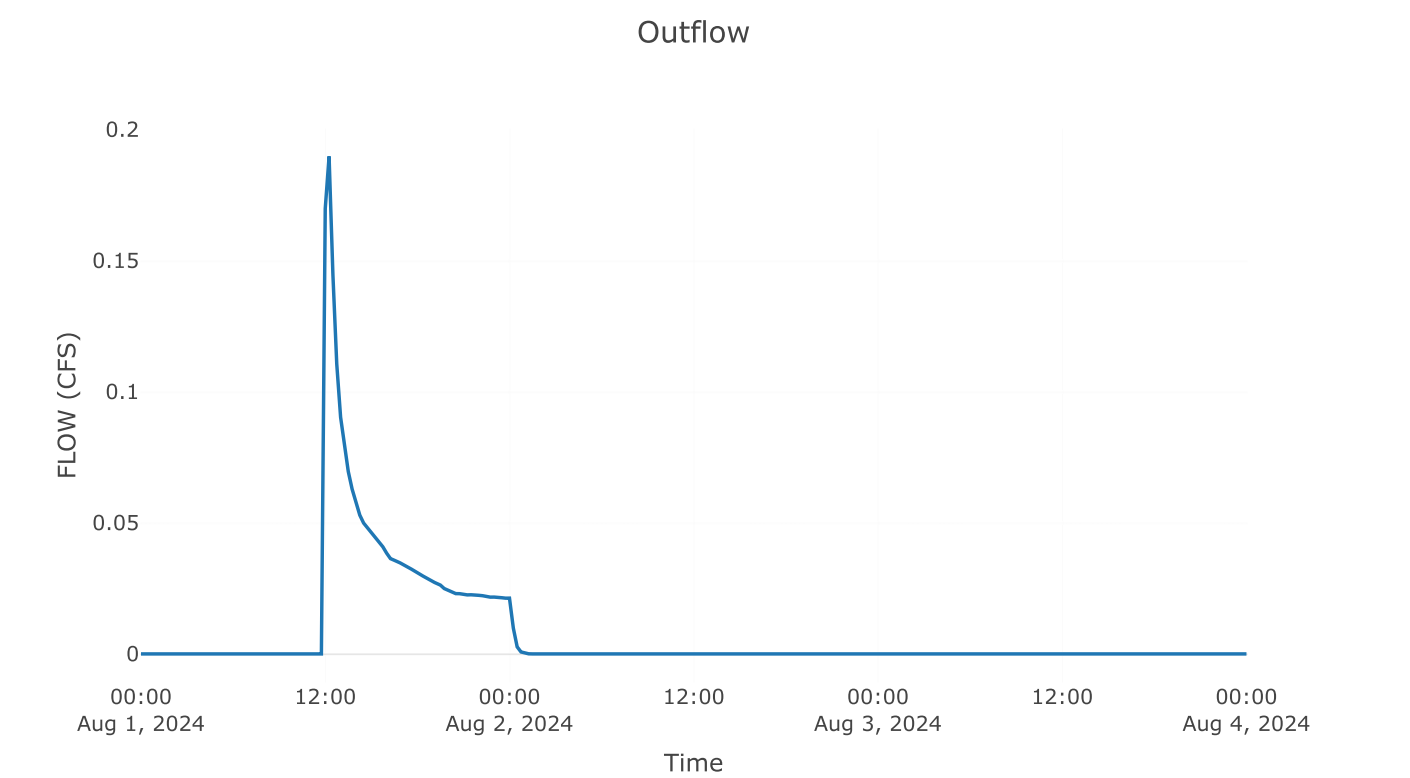
Precipitation and Outflow



Junction: JUNCTION 3.3

Downstream : Downchute 3.4

Results: JUNCTION 3.3	
Peak Discharge (CFS)	0.19
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

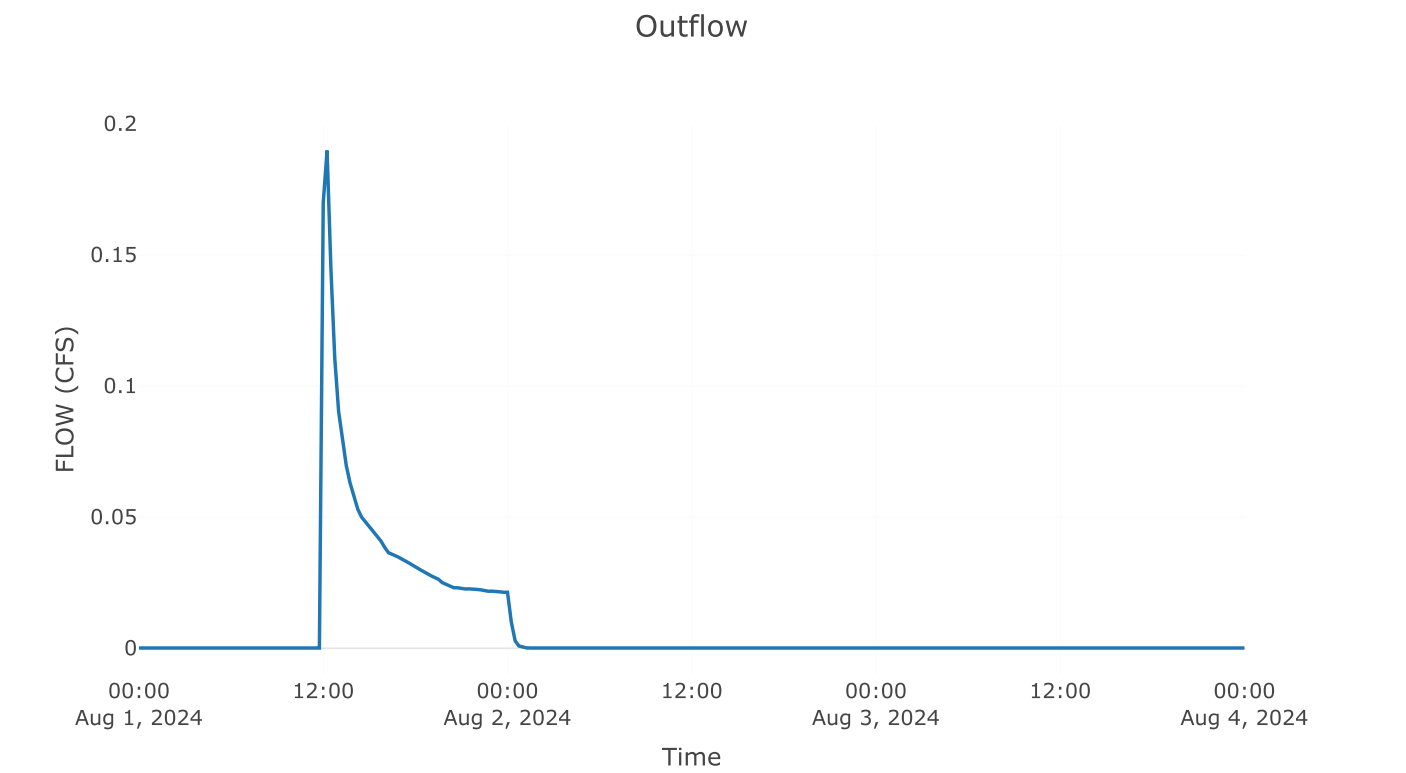


Reach: DOWNCHUTE 3.4

Downstream : Junction 3.4

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.2

Results: DOWNCHUTE 3.4	
Peak Discharge (CFS)	0.19
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.19
Inflow Volume (AC - FT)	0.05



Subbasin: NW-20

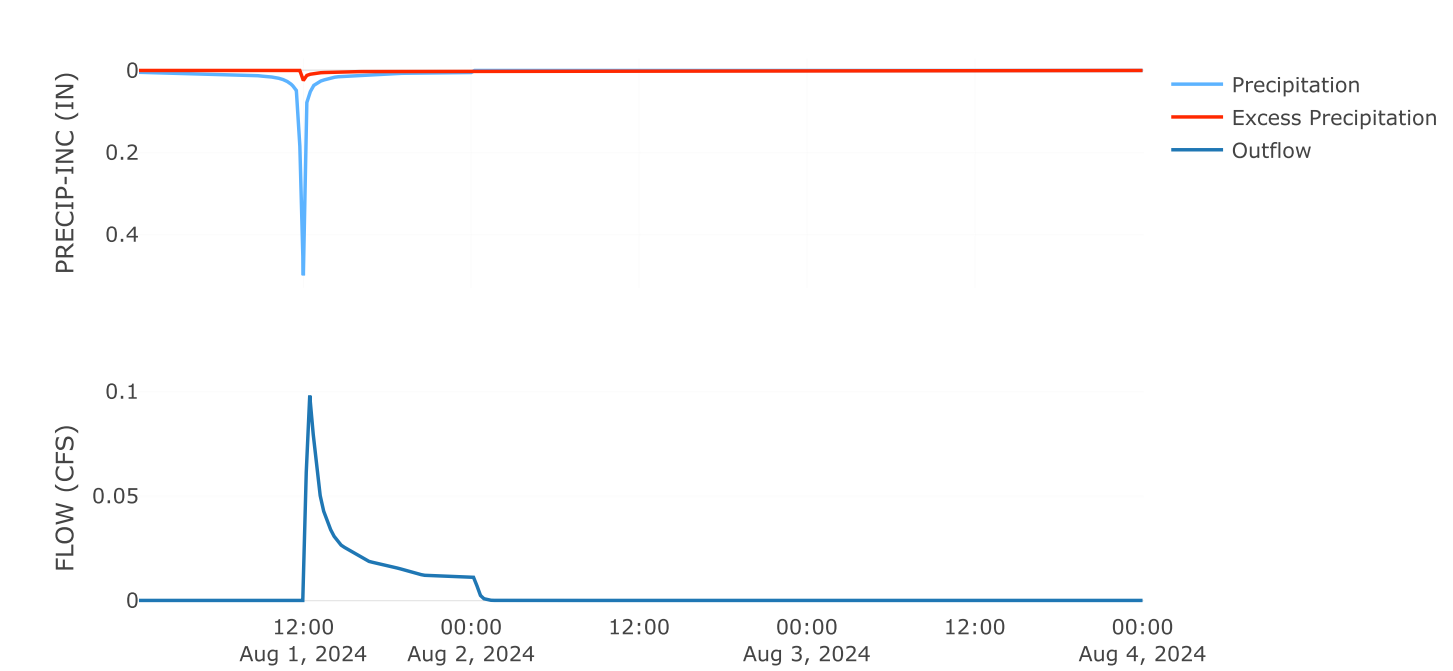
Area (MI²) : 0
Downstream : Junction 3.4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	15.2
Unitgraph Type	Standard

Results: NW-20	
Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.25
Loss Volume (AC - FT)	0.23
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



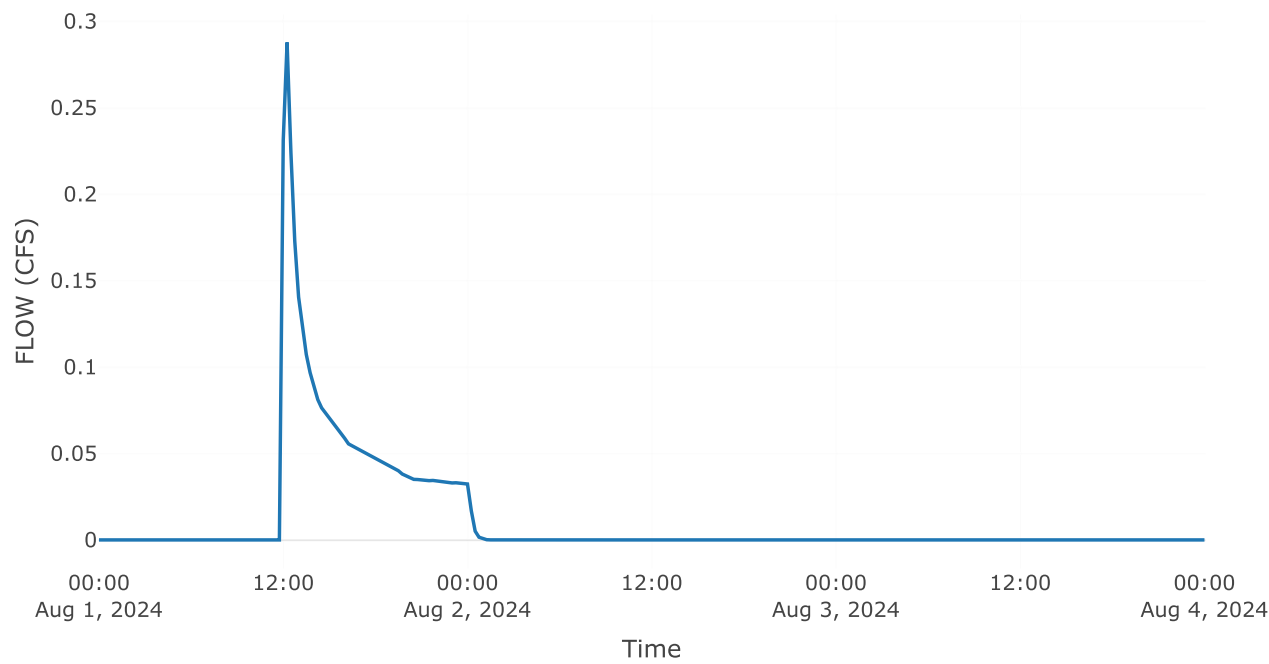
Junction: JUNCTION 3.4

Downstream : Downchute 5.1

Results: JUNCTION 3.4

Peak Discharge (CFS)	0.29
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow



Subbasin: NW-27

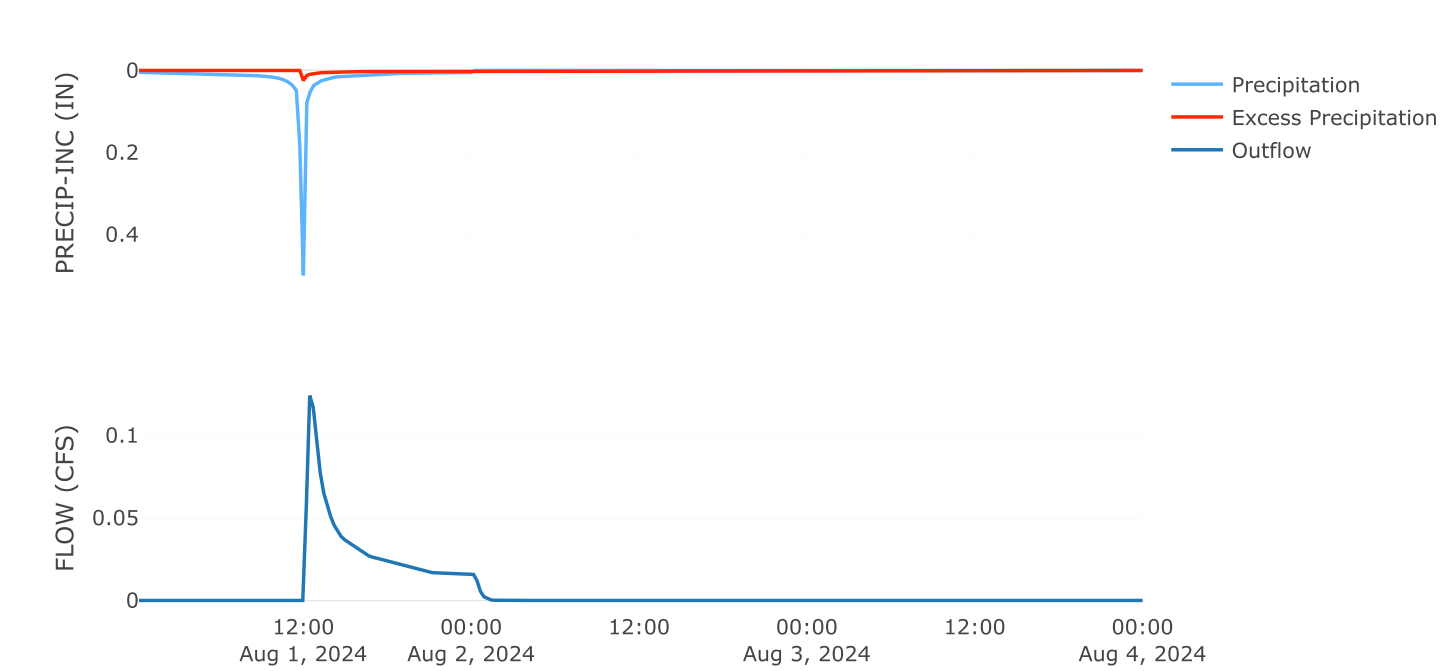
Area (MI²) : 0
Downstream : Downchute 5.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	19.6
Unitgraph Type	Standard

Results: NW-27	
Peak Discharge (CFS)	0.12
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.36
Loss Volume (AC - FT)	0.32
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: NW-24

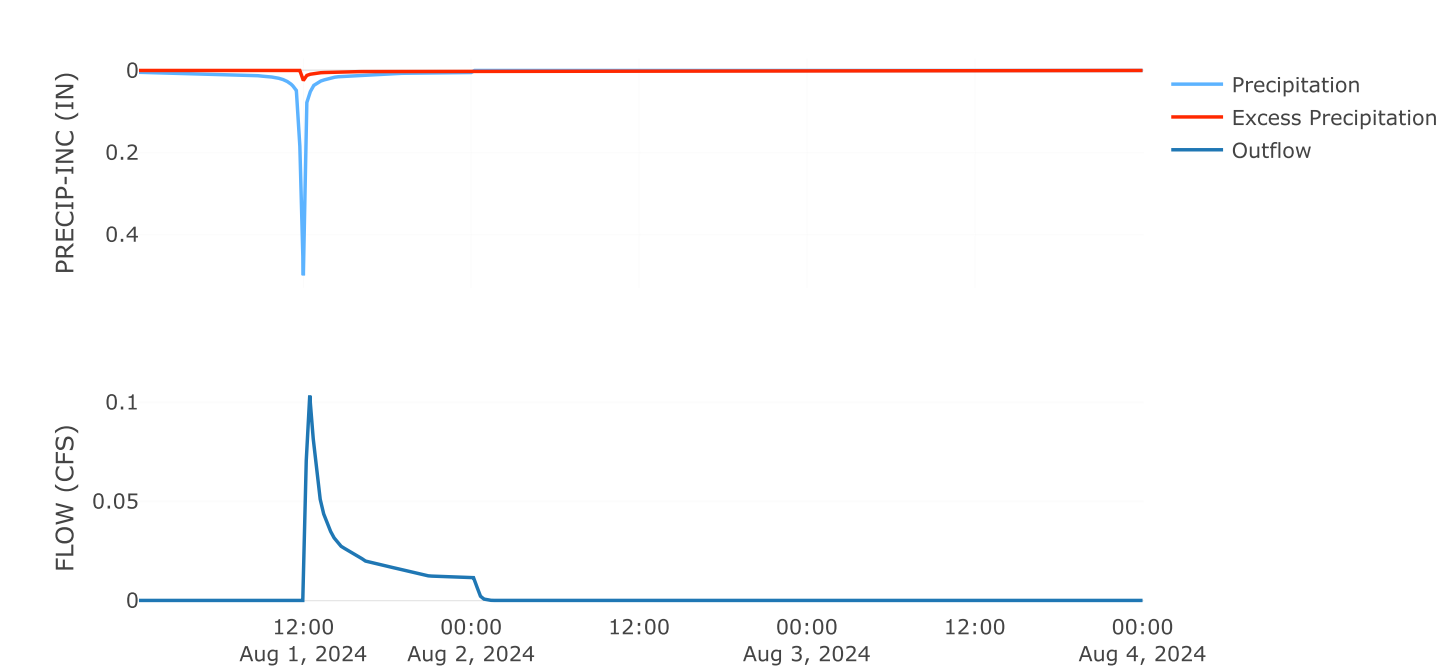
Area (MI²) : 0
Downstream : Downchute 5.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	14.1
Unitgraph Type	Standard

Results: NW-24	
Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.26
Loss Volume (AC - FT)	0.23
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

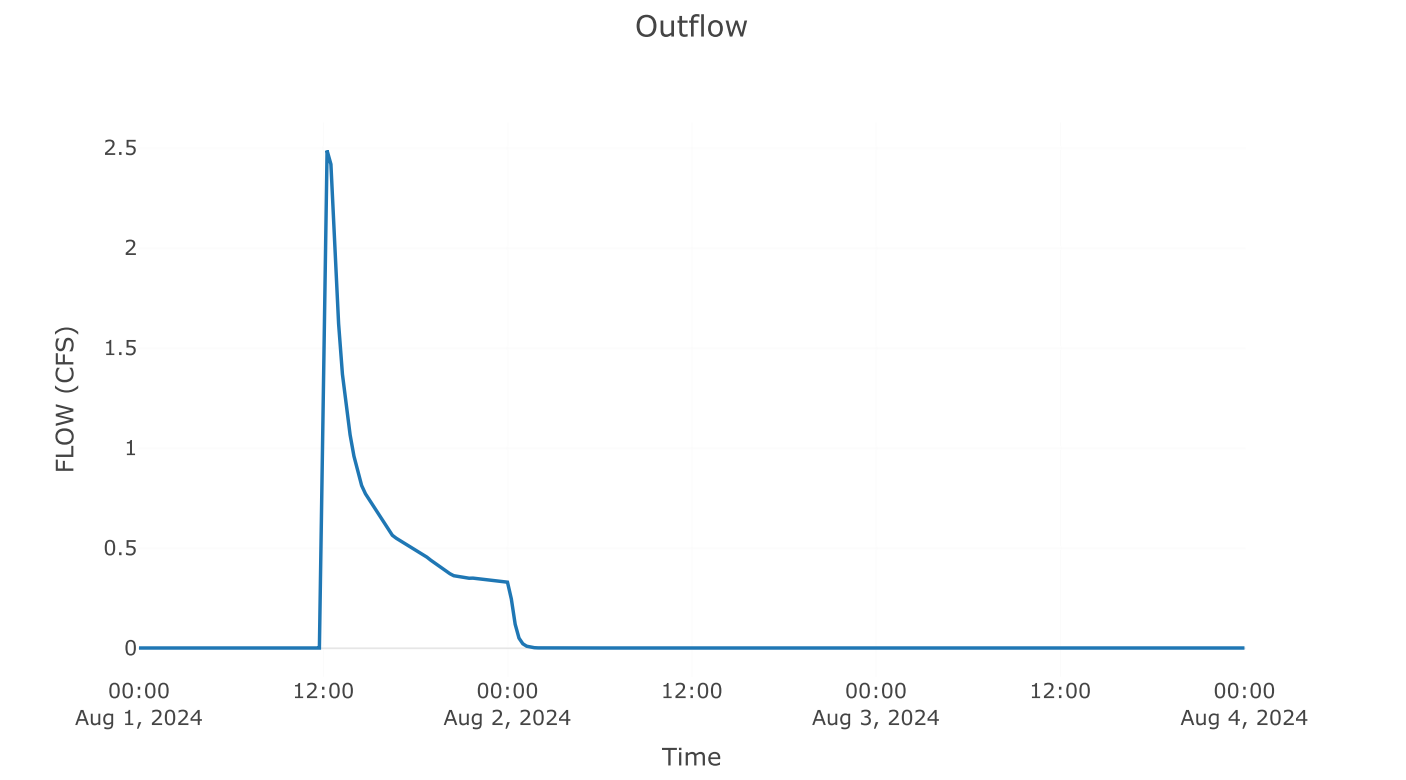


Reach: DOWNCHUTE 5.1

Downstream : Junction 5.1

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 5.1	
Peak Discharge (CFS)	2.49
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	2.49
Inflow Volume (AC - FT)	0.7



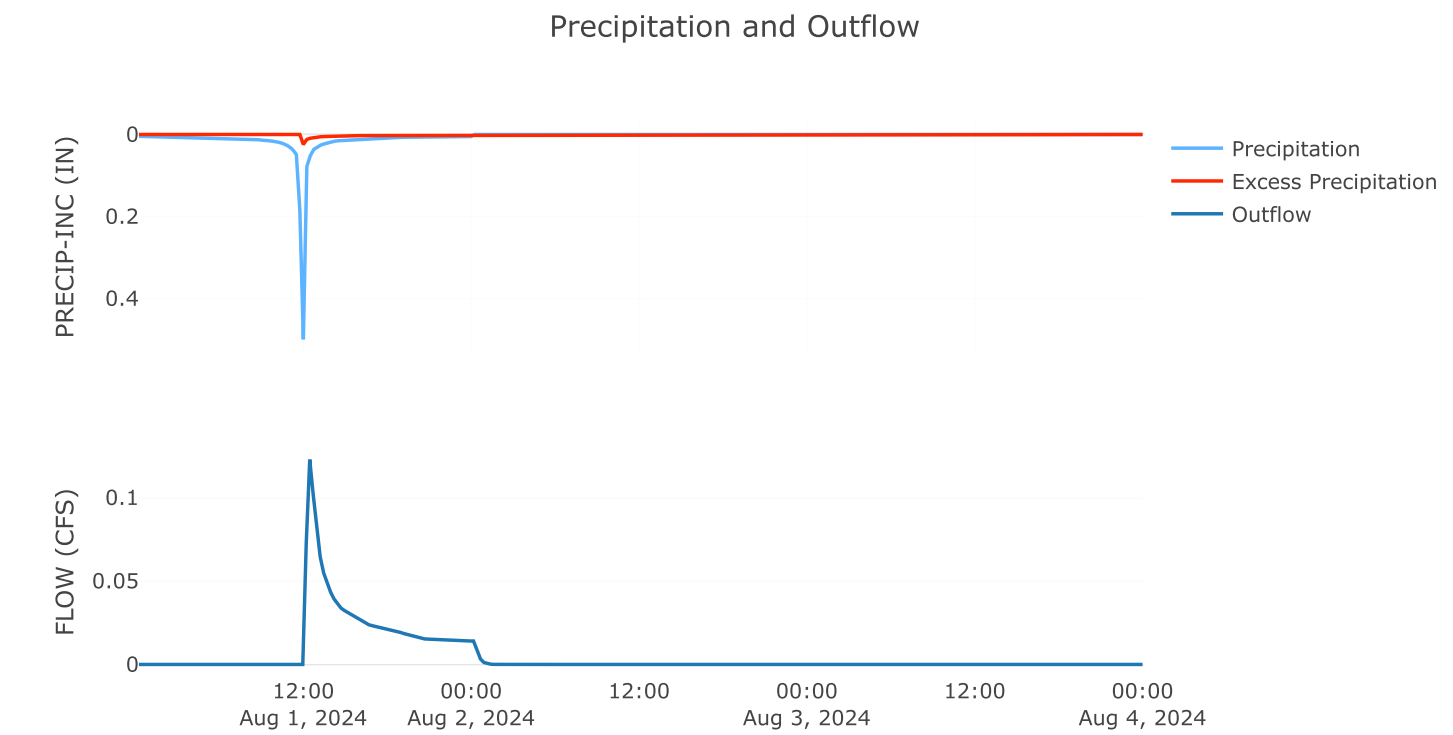
Subbasin: NW-28

Area (MI²) : 0
Downstream : Junction 5.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	15.9
Unitgraph Type	Standard

Results: NW-28	
Peak Discharge (CFS)	0.12
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.32
Loss Volume (AC - FT)	0.29
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0



Subbasin: NW-25

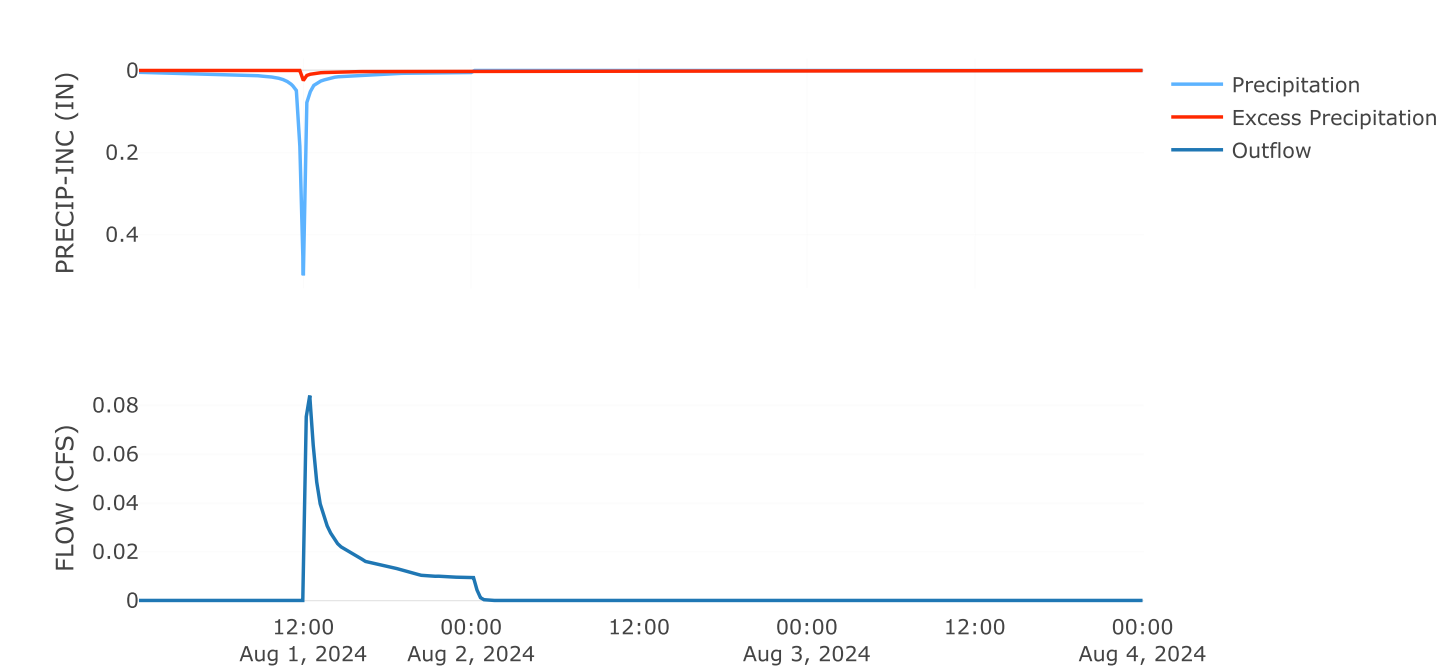
Area (MI²) : 0
Downstream : Junction 5.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	11.4
Unitgraph Type	Standard

Results: NW-25	
Peak Discharge (CFS)	0.08
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.21
Loss Volume (AC - FT)	0.19
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

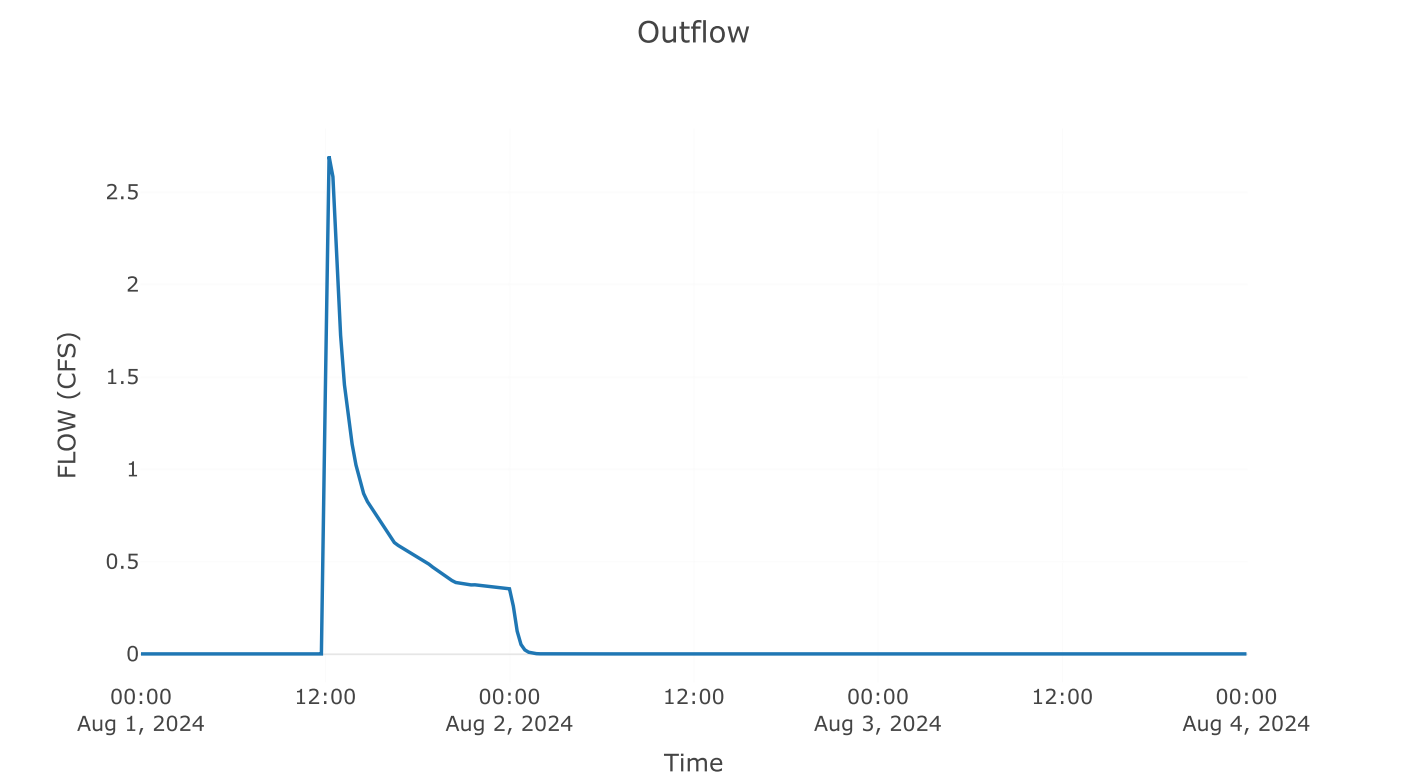
Precipitation and Outflow



Junction: JUNCTION 5.1

Downstream : Downchute 5.2

Results: JUNCTION 5.1	
Peak Discharge (CFS)	2.69
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

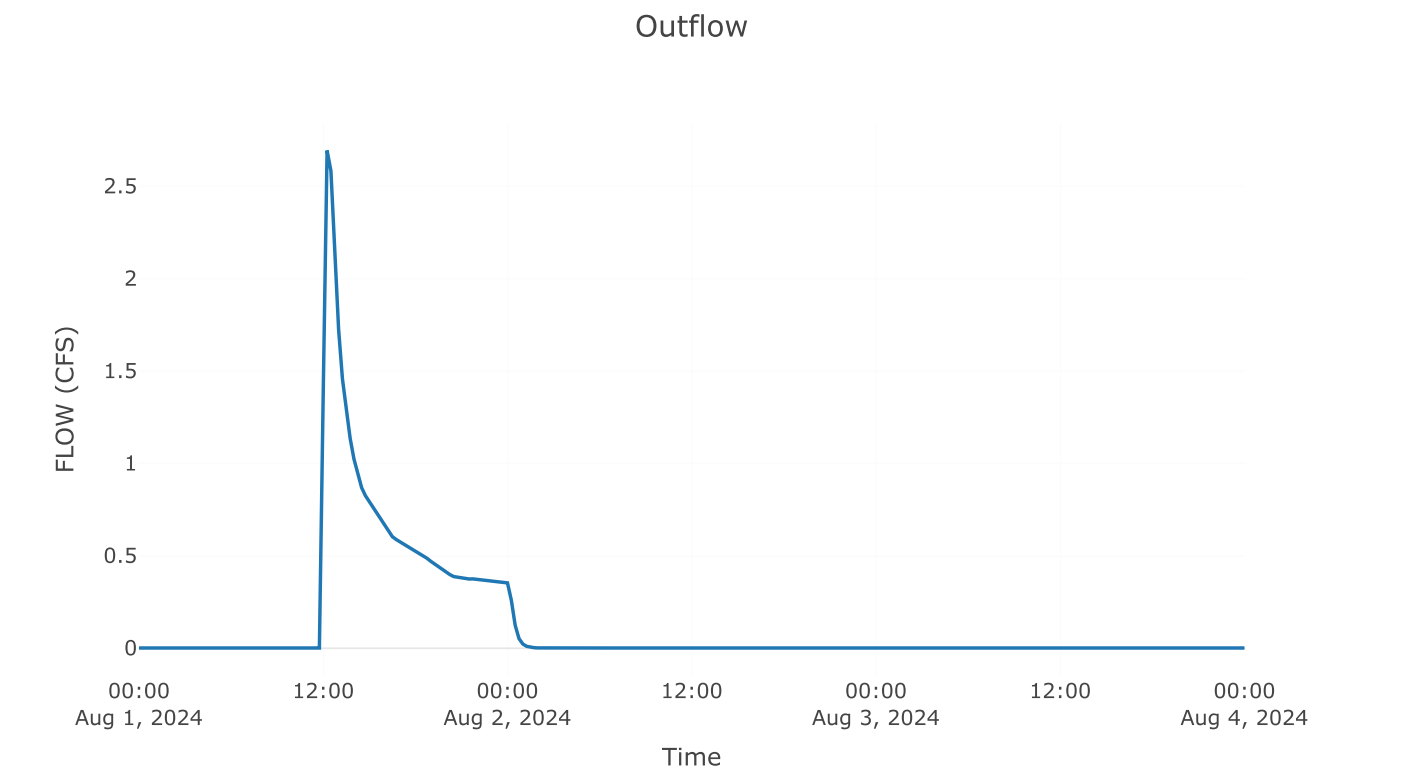


Reach: DOWNCHUTE 5.2

Downstream : Junction 5.2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 5.2	
Peak Discharge (CFS)	2.69
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	2.69
Inflow Volume (AC - FT)	0.75



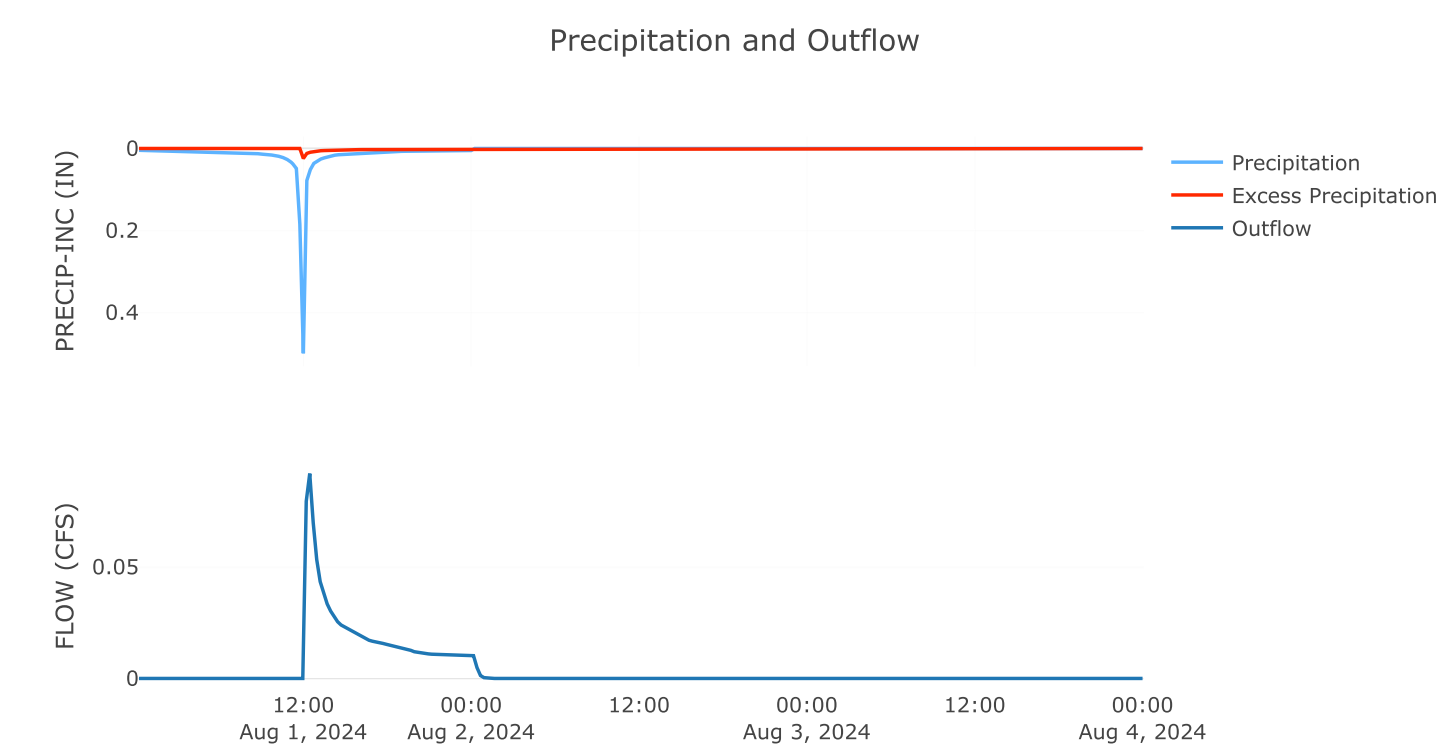
Subbasin: NW-29

Area (MI²) : 0
Downstream : Junction 5.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	11.7
Unitgraph Type	Standard

Results: NW-29	
Peak Discharge (CFS)	0.09
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.23
Loss Volume (AC - FT)	0.21
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0



Subbasin: NW-26

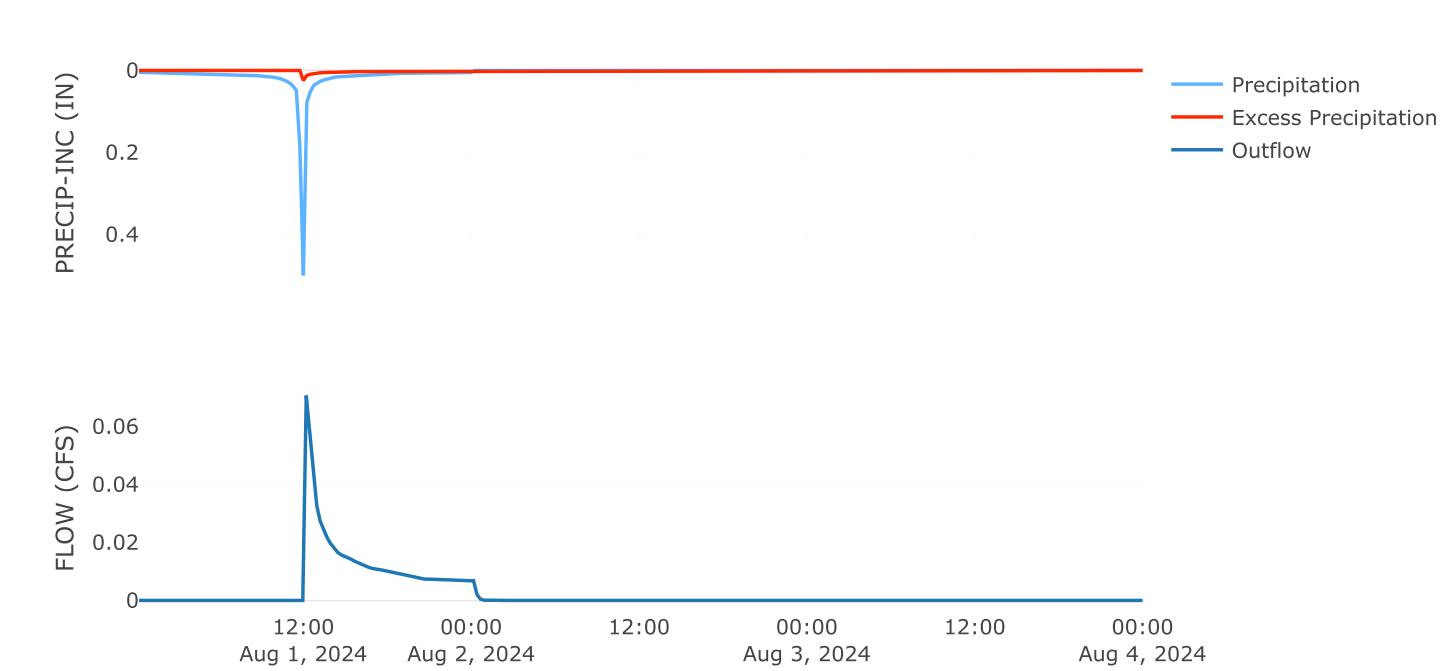
Area (MI²) : 0
Downstream : Junction 5.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	8.4
Unitgraph Type	Standard

Results: NW-26	
Peak Discharge (CFS)	0.07
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.15
Loss Volume (AC - FT)	0.14
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

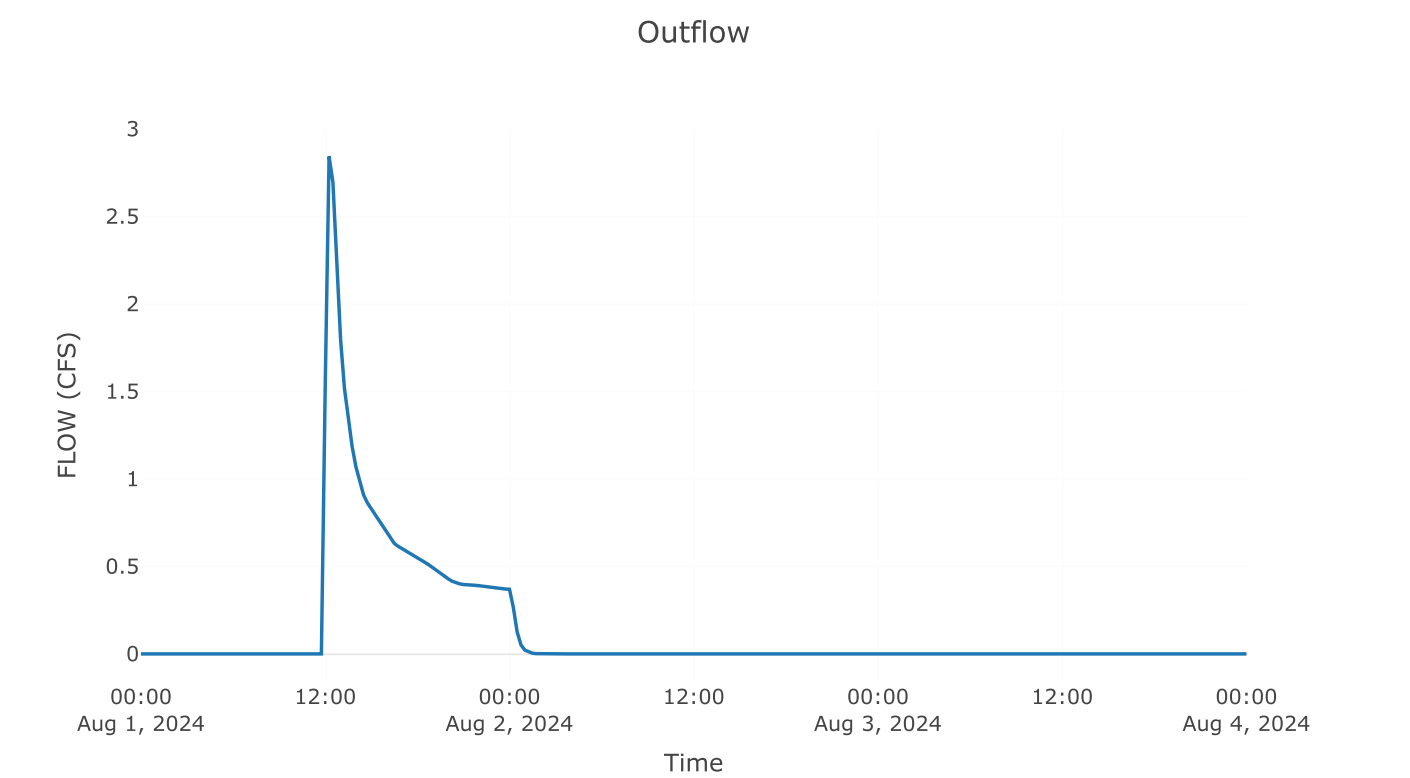
Precipitation and Outflow



Junction: JUNCTION 5.2

Downstream : Downchute 5.3

Results: JUNCTION 5.2	
Peak Discharge (CFS)	2.84
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

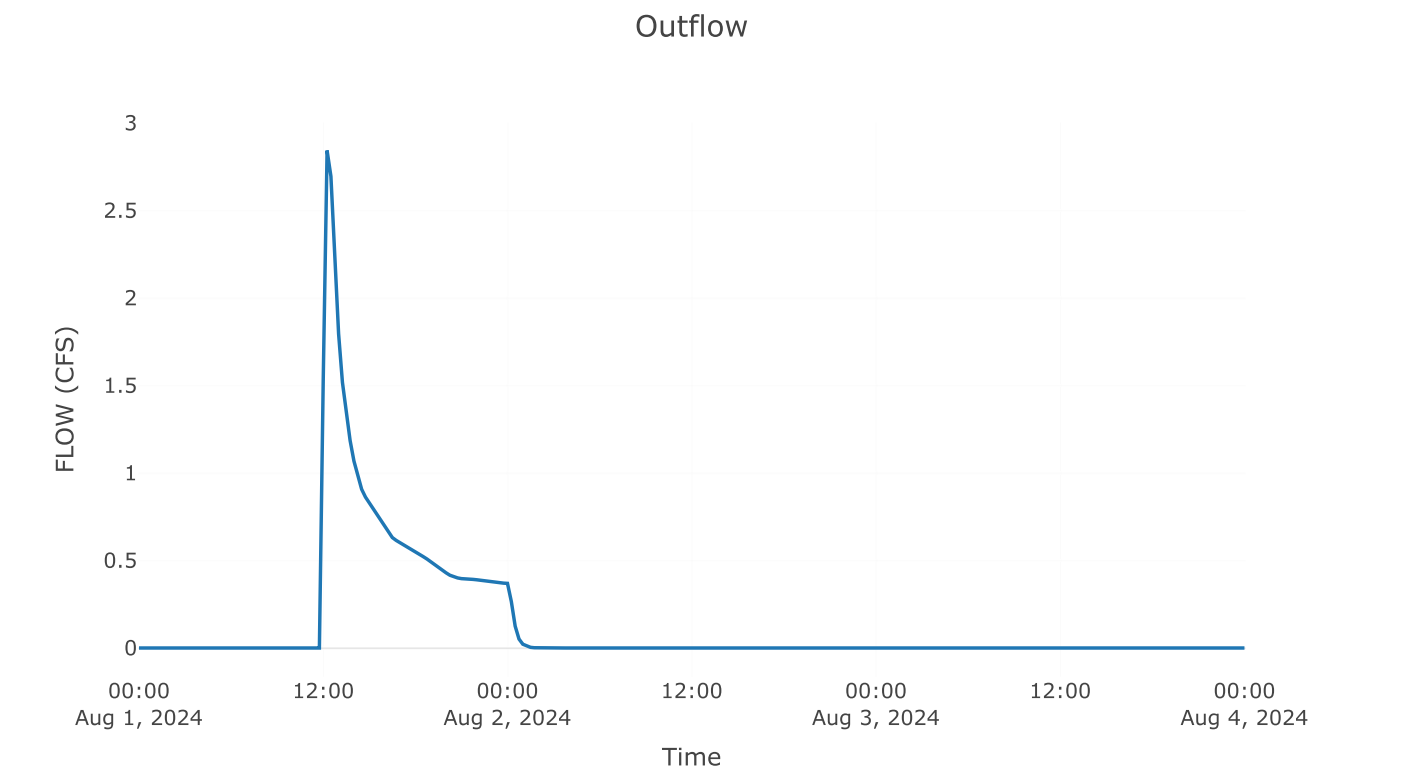


Reach: DOWNCHUTE 5.3

Downstream : Northwest pond

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 5.3	
Peak Discharge (CFS)	2.84
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	2.84
Inflow Volume (AC - FT)	0.79



Subbasin: NW-1

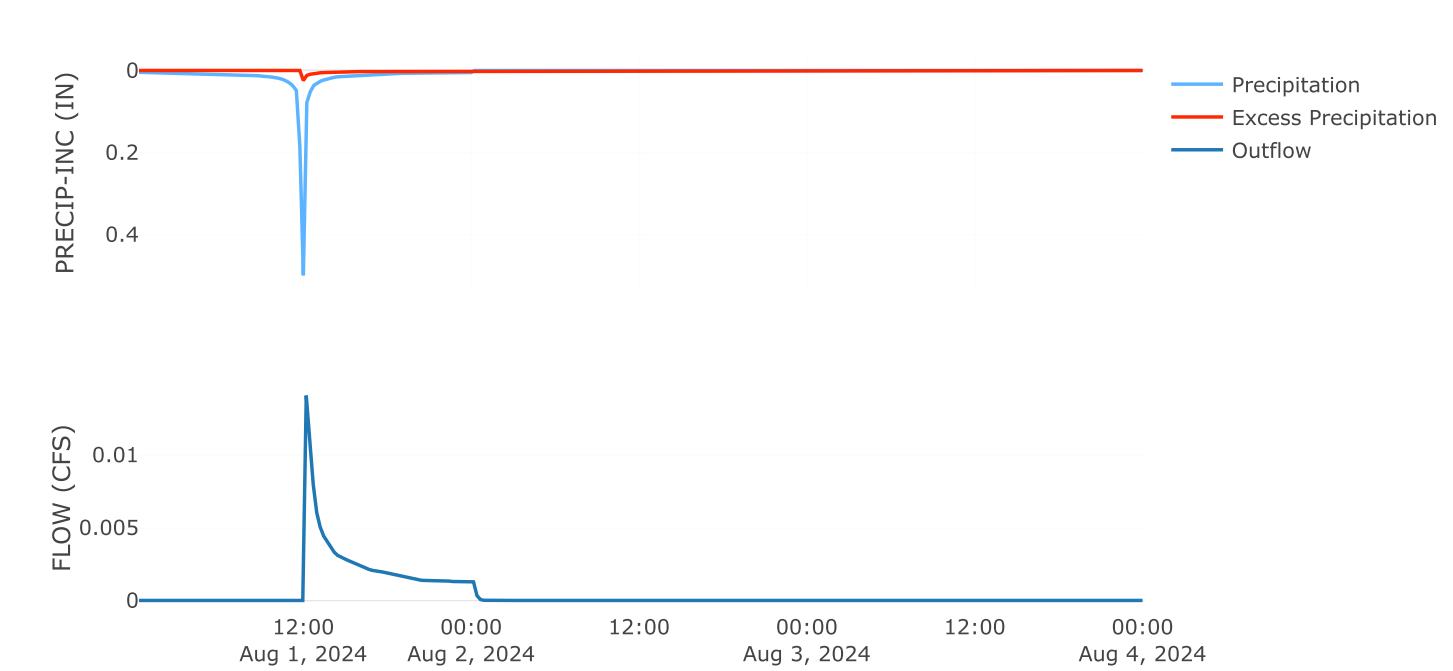
Area (MI²) : 0
Downstream : Downchute 1.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	4.1
Unitgraph Type	Standard

Results: NW-1	
Peak Discharge (CFS)	0.01
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.03
Loss Volume (AC - FT)	0.03
Excess Volume (AC - FT)	0
Direct Runoff Volume (AC - FT)	0
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: NW-2

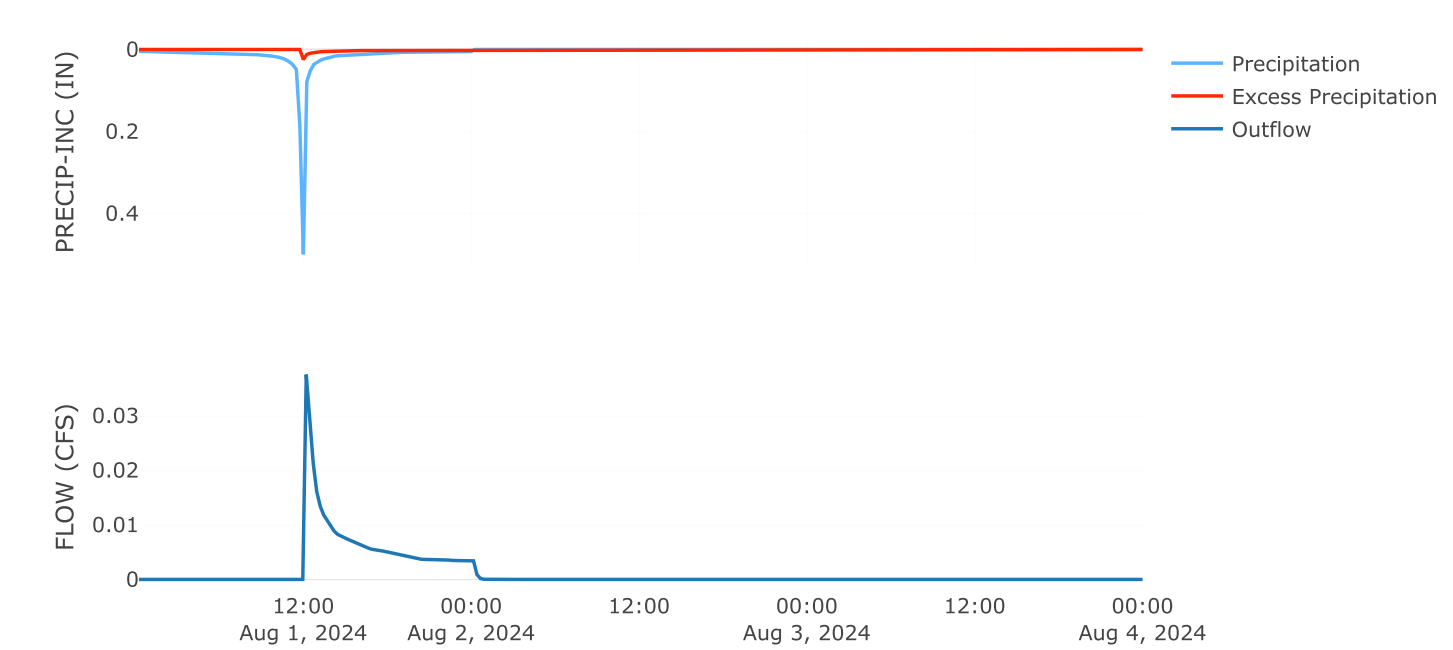
Area (MI²) : 0
Downstream : Junction I.I

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	6.7
Unitgraph Type	Standard

Results: NW-2	
Peak Discharge (CFS)	0.04
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.08
Loss Volume (AC - FT)	0.07
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



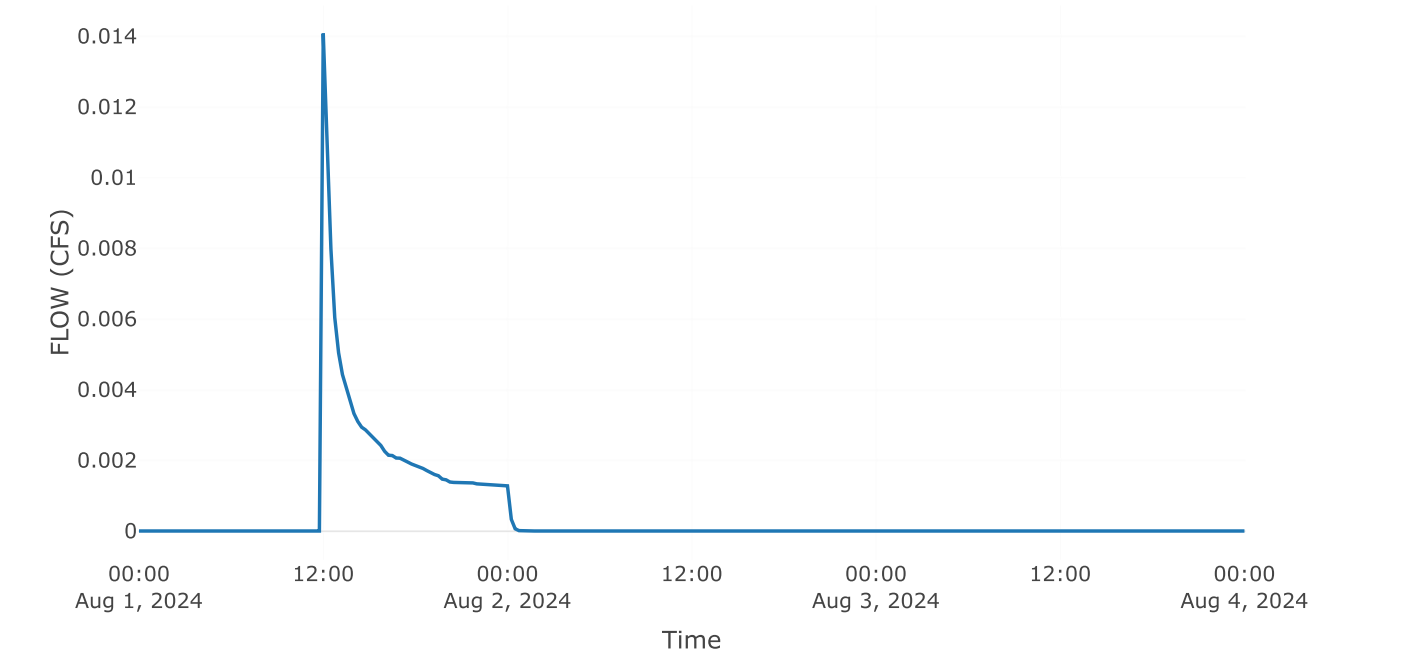
Reach: DOWNCHUTE I.I

Downstream : Junction I.I

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE I.I	
Peak Discharge (CFS)	0.01
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.01
Inflow Volume (AC - FT)	0

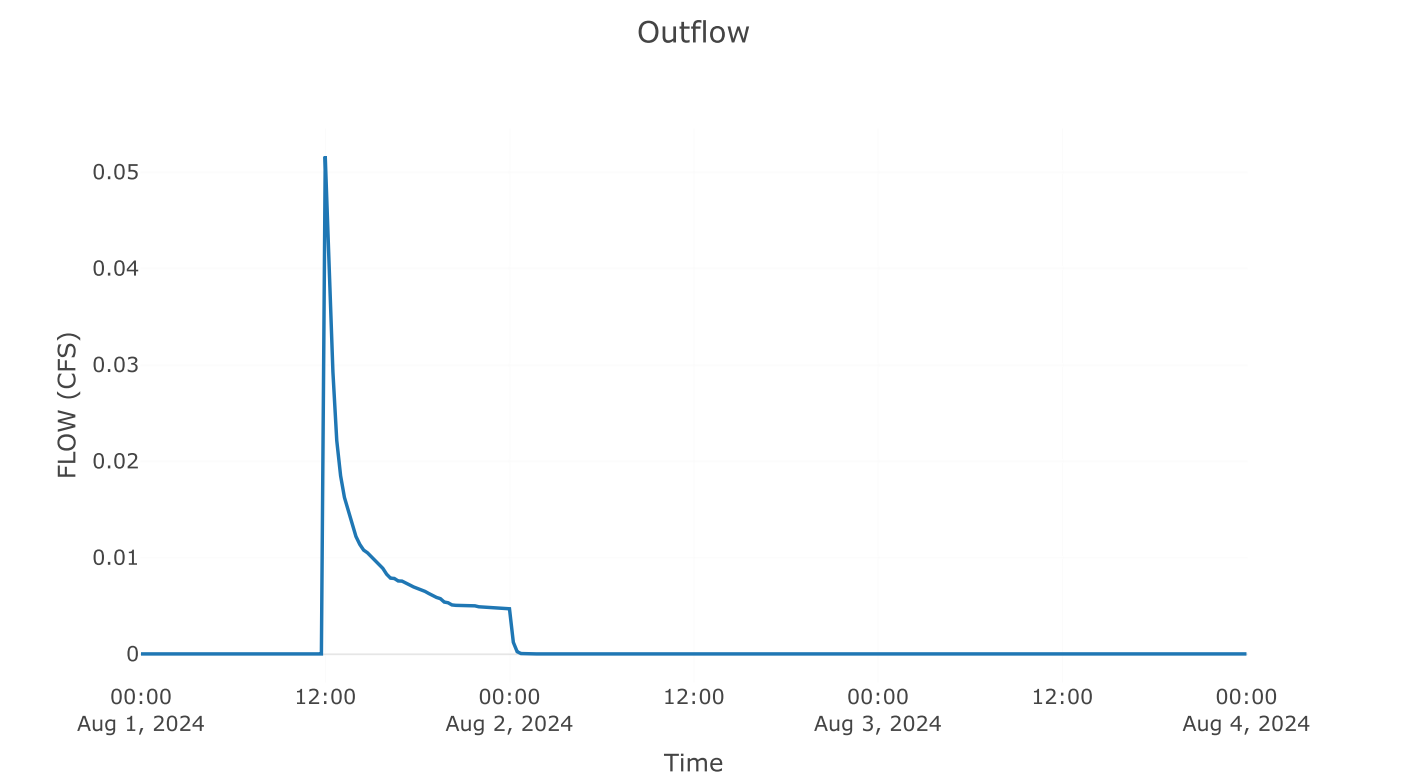
Outflow



Junction: JUNCTION 1.1

Downstream : Downchute 1.2

Results: JUNCTION 1.1	
Peak Discharge (CFS)	0.05
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17



Subbasin: NW-3

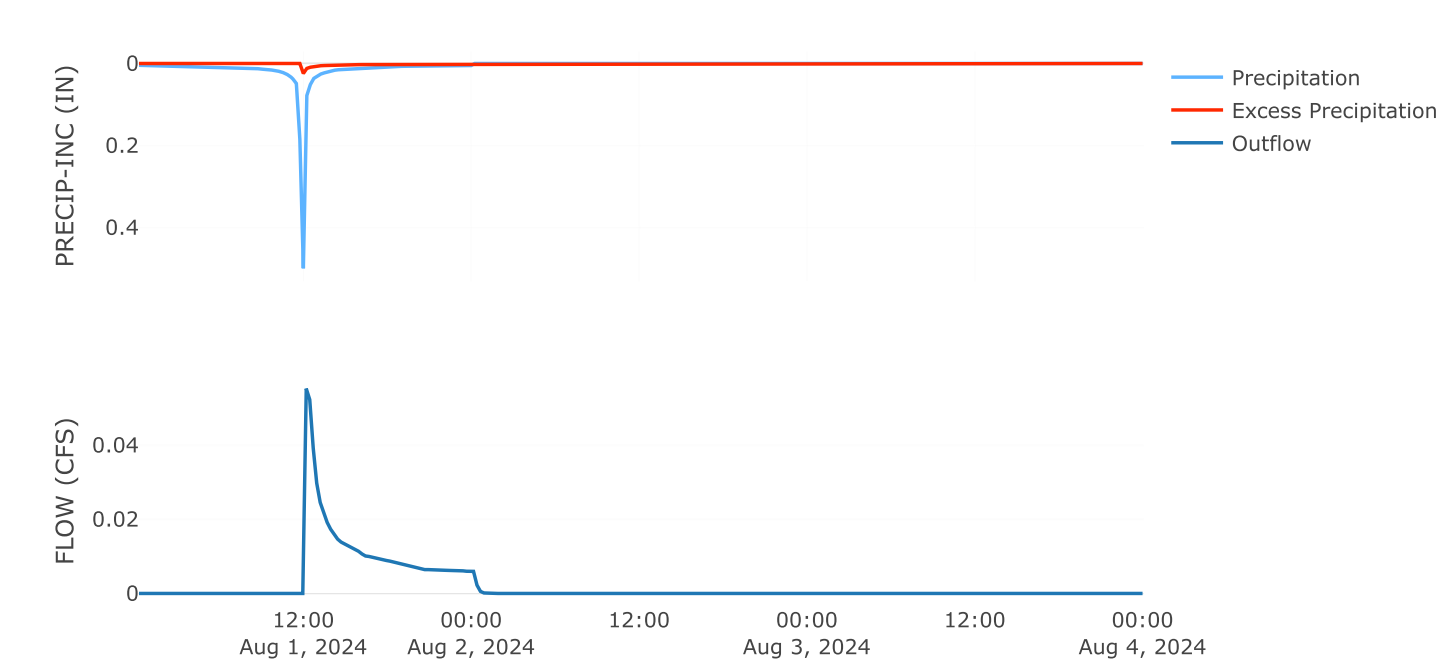
Area (MI²) : 0
Downstream : Junction I.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	9.9
Unitgraph Type	Standard

Results: NW-3	
Peak Discharge (CFS)	0.06
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.13
Loss Volume (AC - FT)	0.12
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



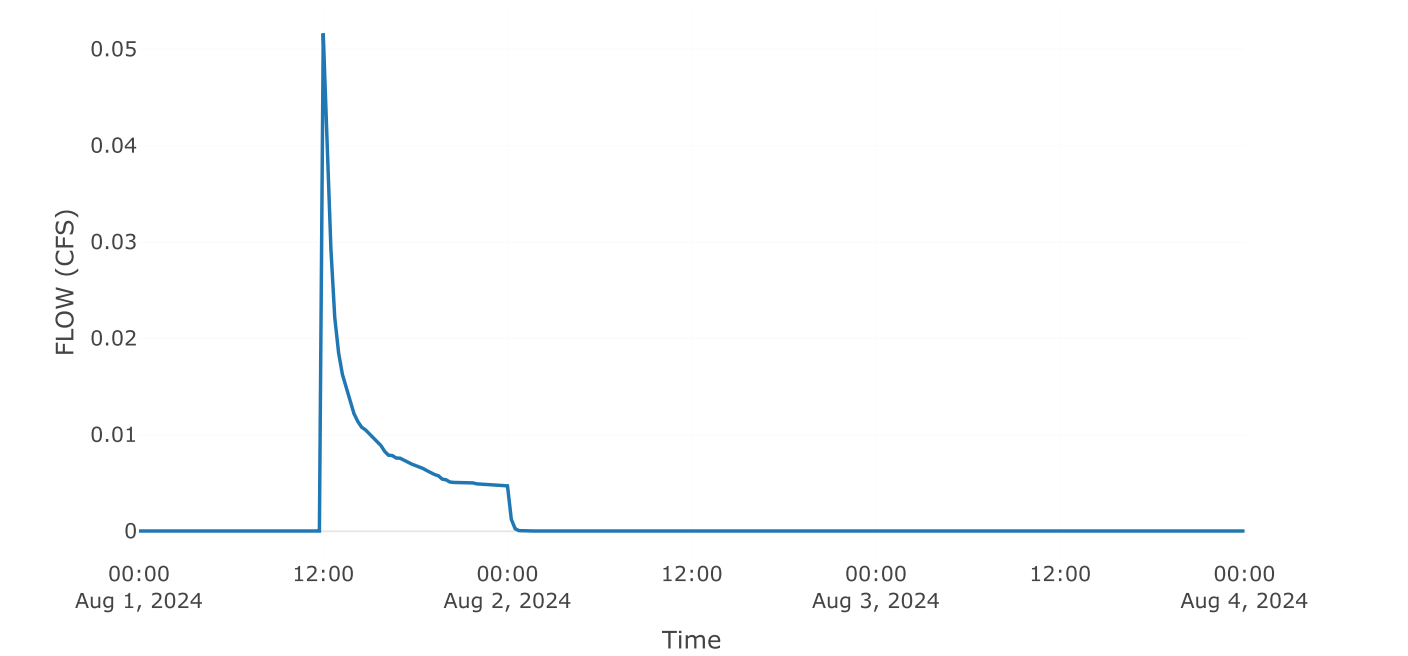
Reach: DOWNCHUTE 1.2

Downstream : Junction 1.2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 1.2	
Peak Discharge (CFS)	0.05
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.05
Inflow Volume (AC - FT)	0.01

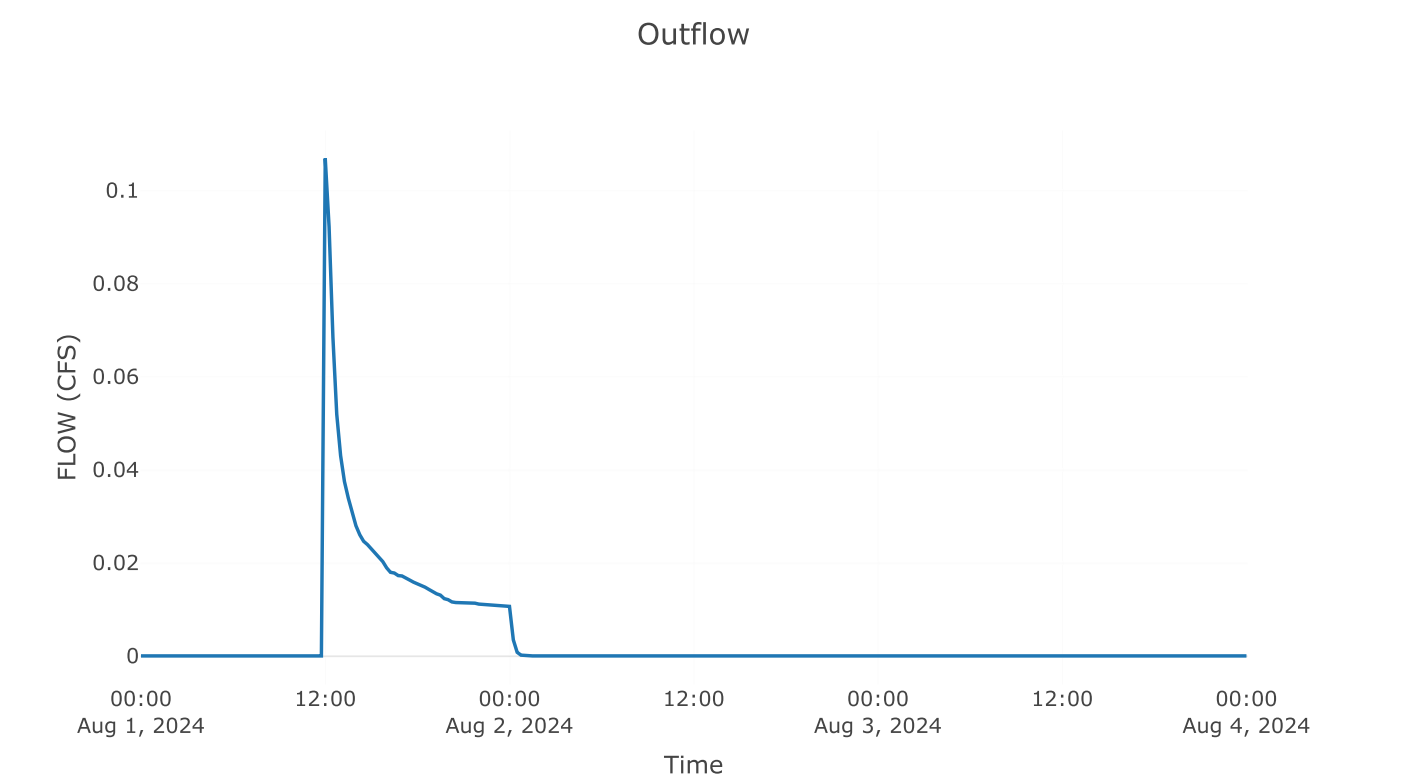
Outflow



Junction: JUNCTION 1.2

Downstream : Downchute 1.3

Results: JUNCTION 1.2	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17

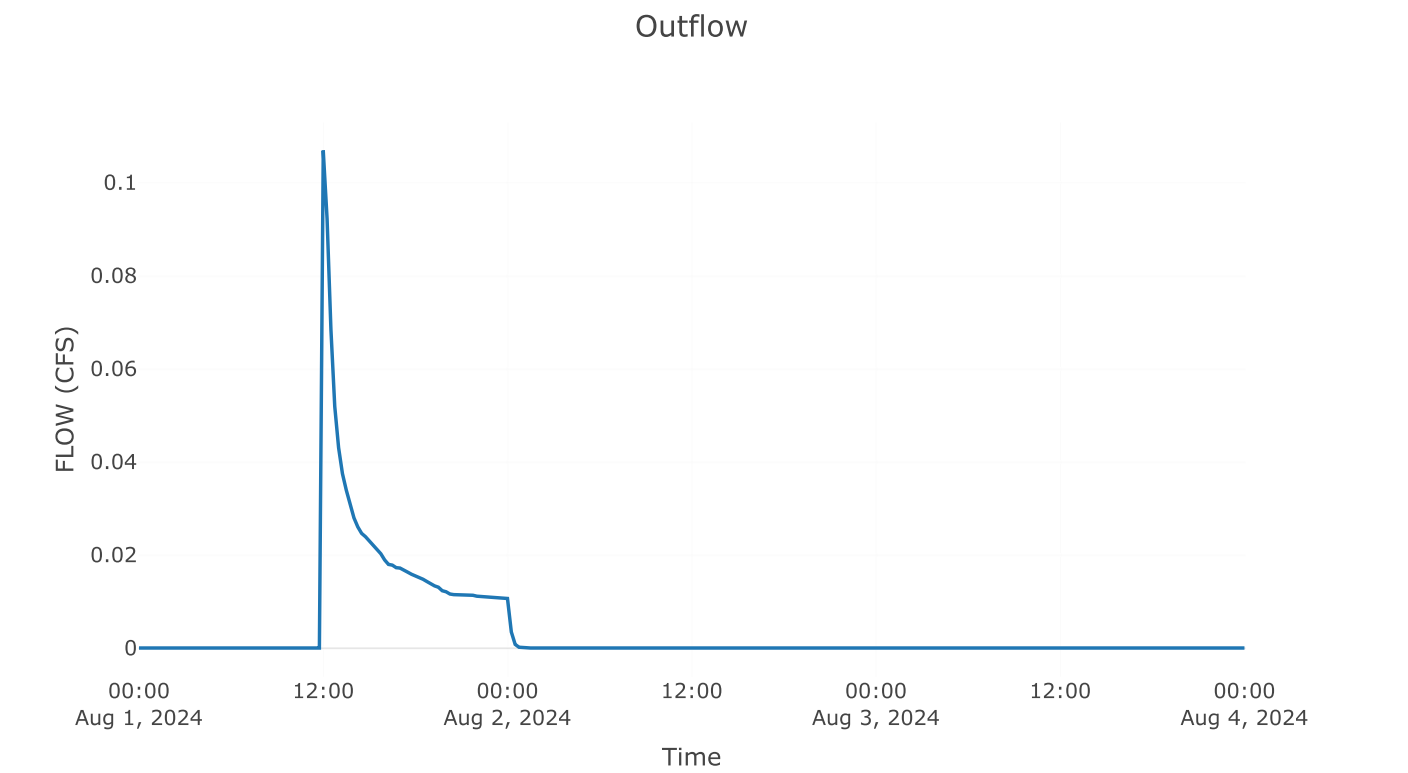


Reach: DOWNCHUTE 1.3

Downstream : Junction 1.3

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 1.3	
Peak Discharge (CFS)	0.11
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.11
Inflow Volume (AC - FT)	0.02



Subbasin: NW-4

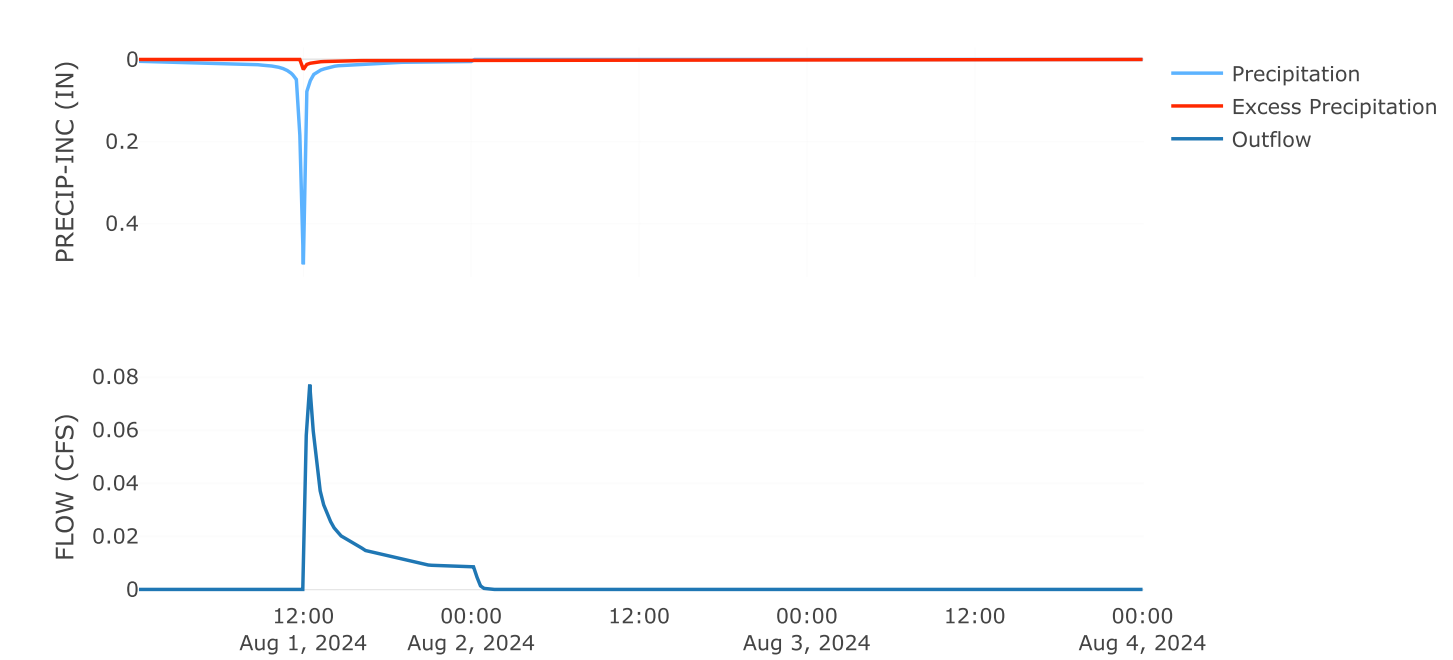
Area (MI²) : 0
Downstream : Junction I.3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	13
Unitgraph Type	Standard

Results: NW-4	
Peak Discharge (CFS)	0.08
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.19
Loss Volume (AC - FT)	0.17
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

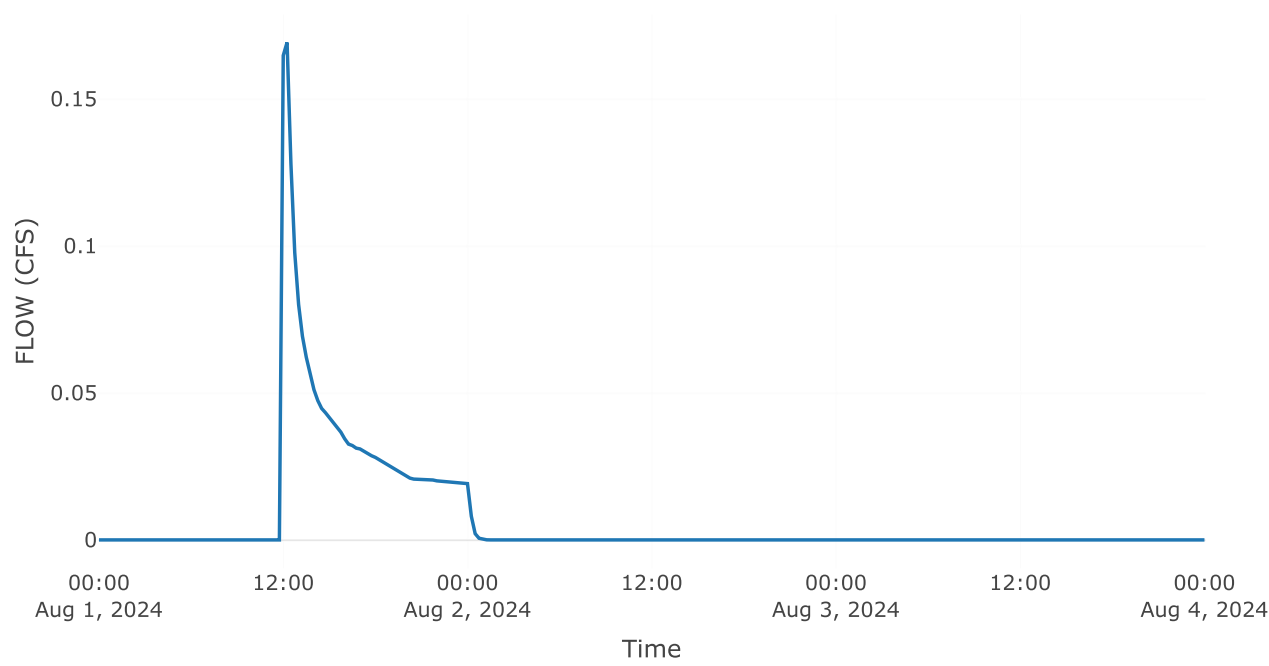


Junction: JUNCTION 1.3

Downstream : Downchute 1.4

Results: JUNCTION 1.3	
Peak Discharge (CFS)	0.17
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow

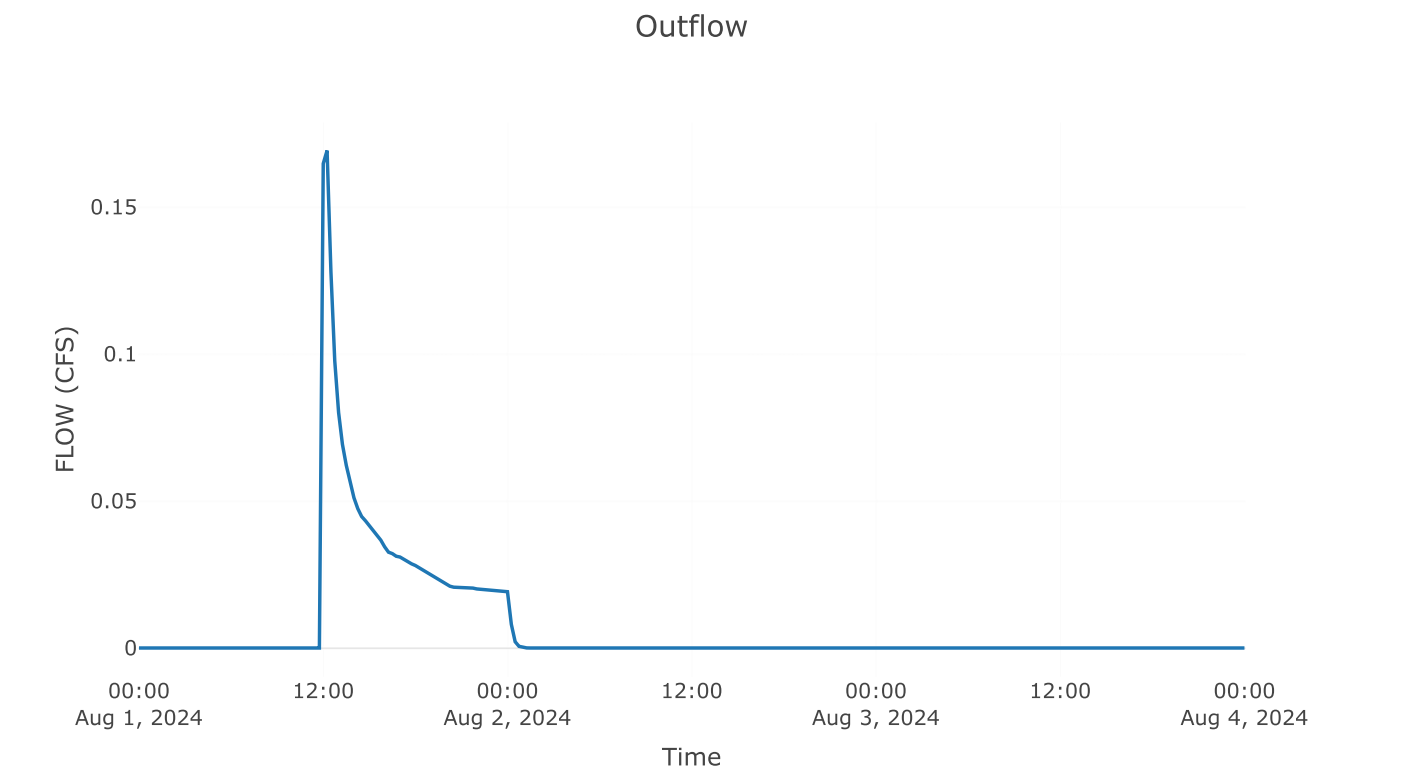


Reach: DOWNCHUTE 1.4

Downstream : Junction 1.4

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 1.4	
Peak Discharge (CFS)	0.17
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.17
Inflow Volume (AC - FT)	0.04



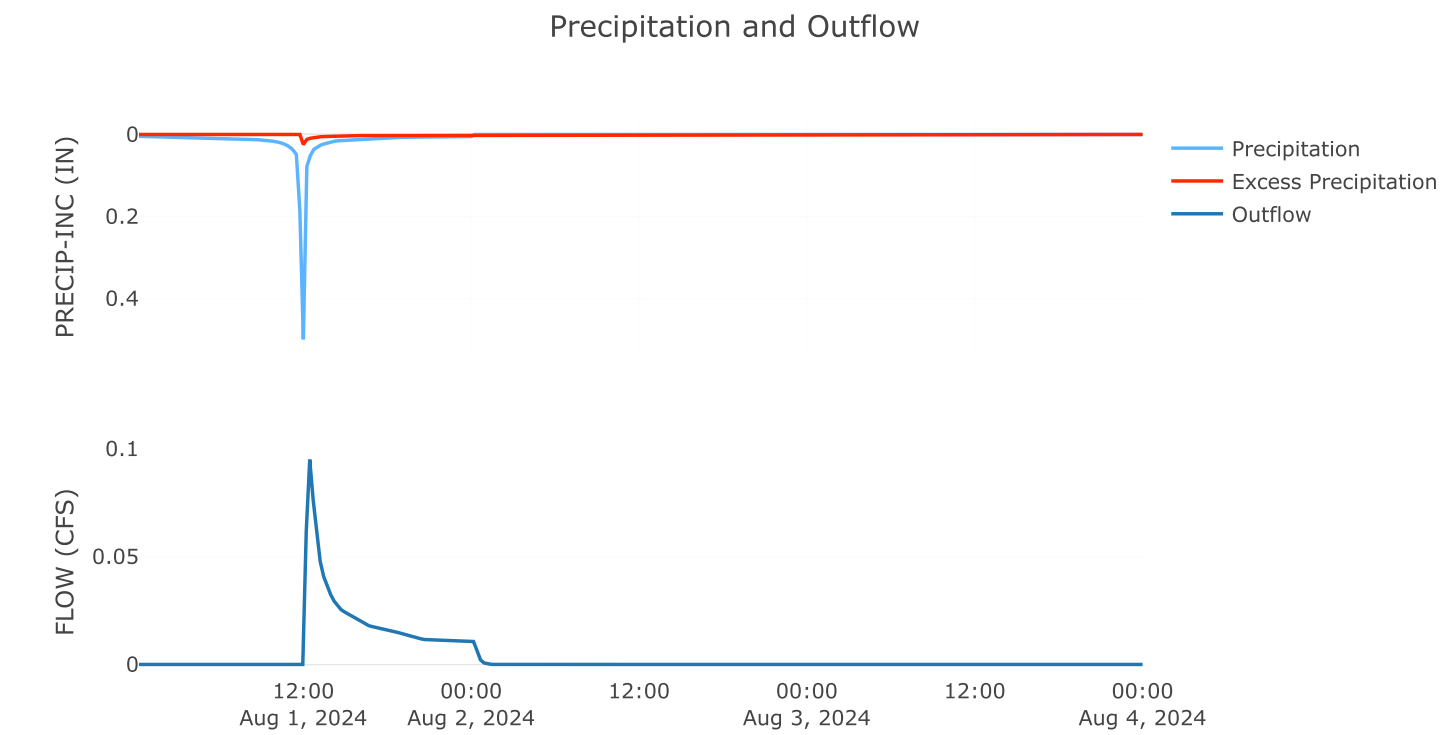
Subbasin: NW-5

Area (MI²) : 0
Downstream : Junction I.4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	14.7
Unitgraph Type	Standard

Results: NW-5	
Peak Discharge (CFS)	0.09
Time of Peak Discharge	01 Aug 2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.24
Loss Volume (AC - FT)	0.22
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

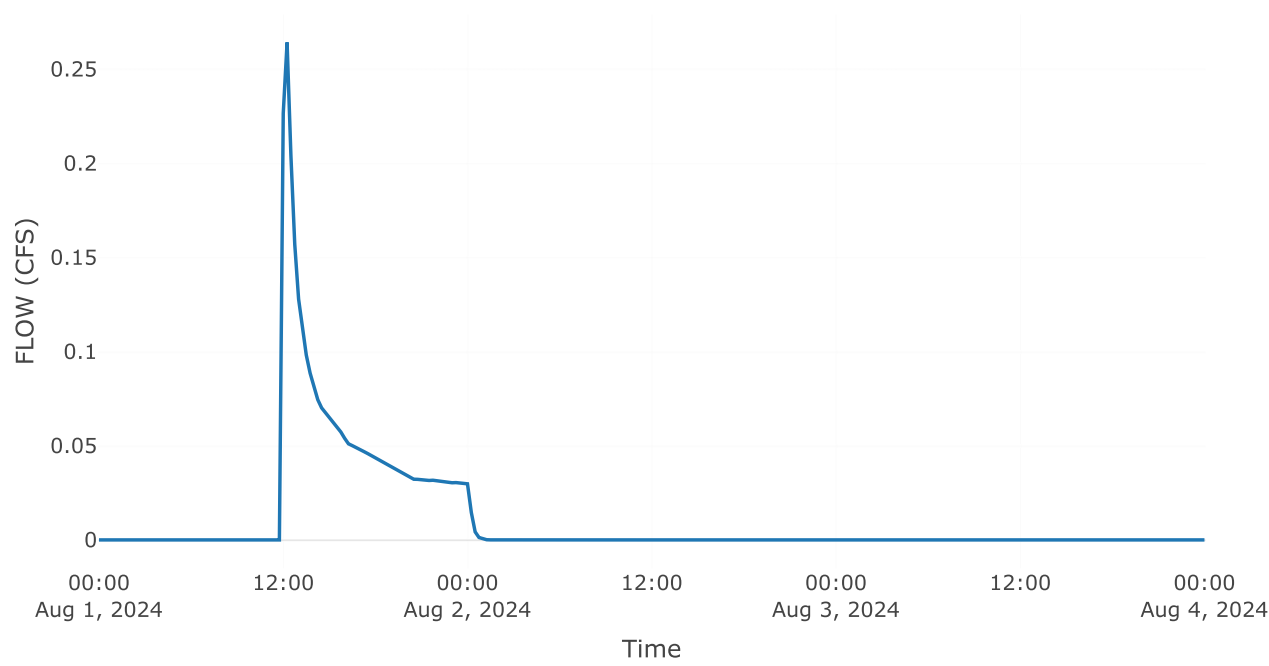


Junction: JUNCTION 1.4

Downstream : Downchute 4.1

Results: JUNCTION 1.4	
Peak Discharge (CFS)	0.26
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow



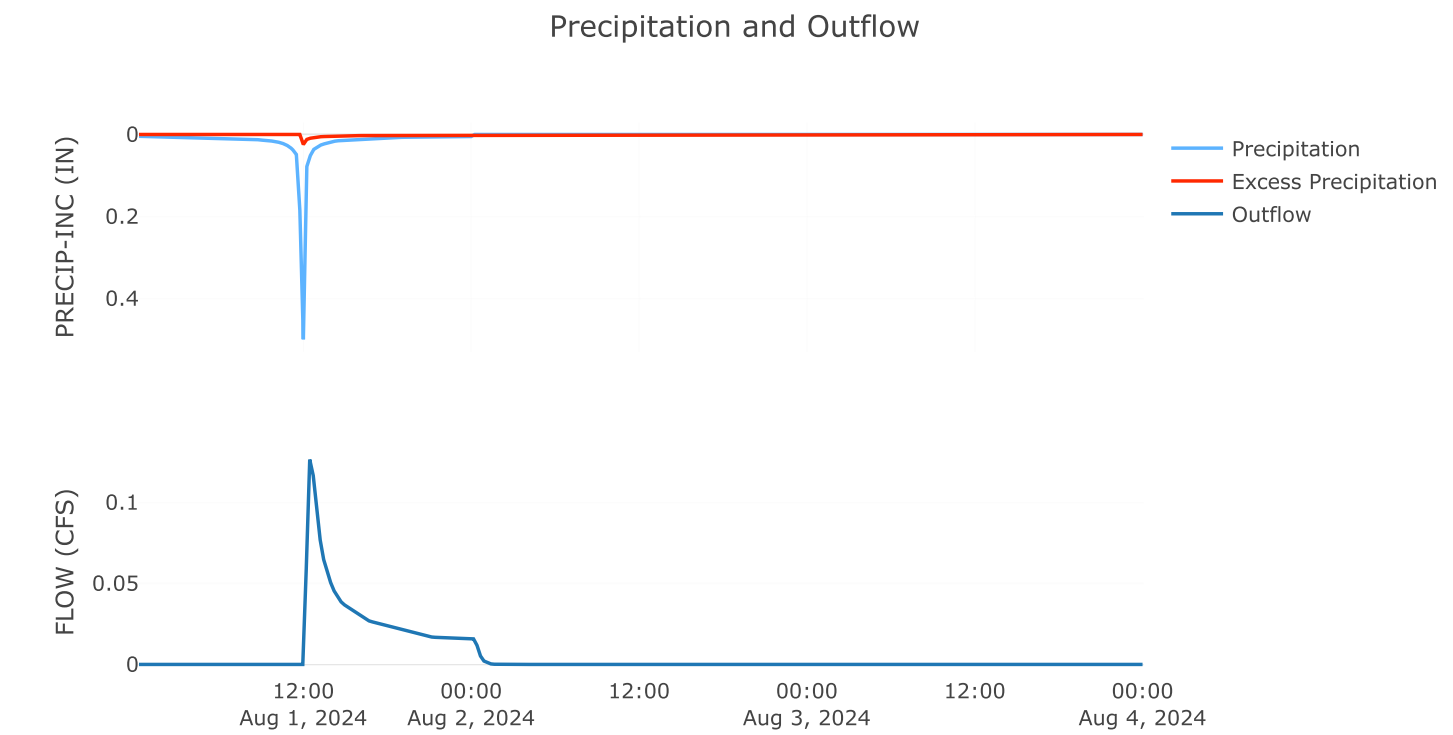
Subbasin: NW-2I

Area (MI²) : 0
Downstream : Downchute 4.I

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	19.I
Unitgraph Type	Standard

Results: NW-2I	
Peak Discharge (CFS)	0.13
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.36
Loss Volume (AC - FT)	0.32
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0

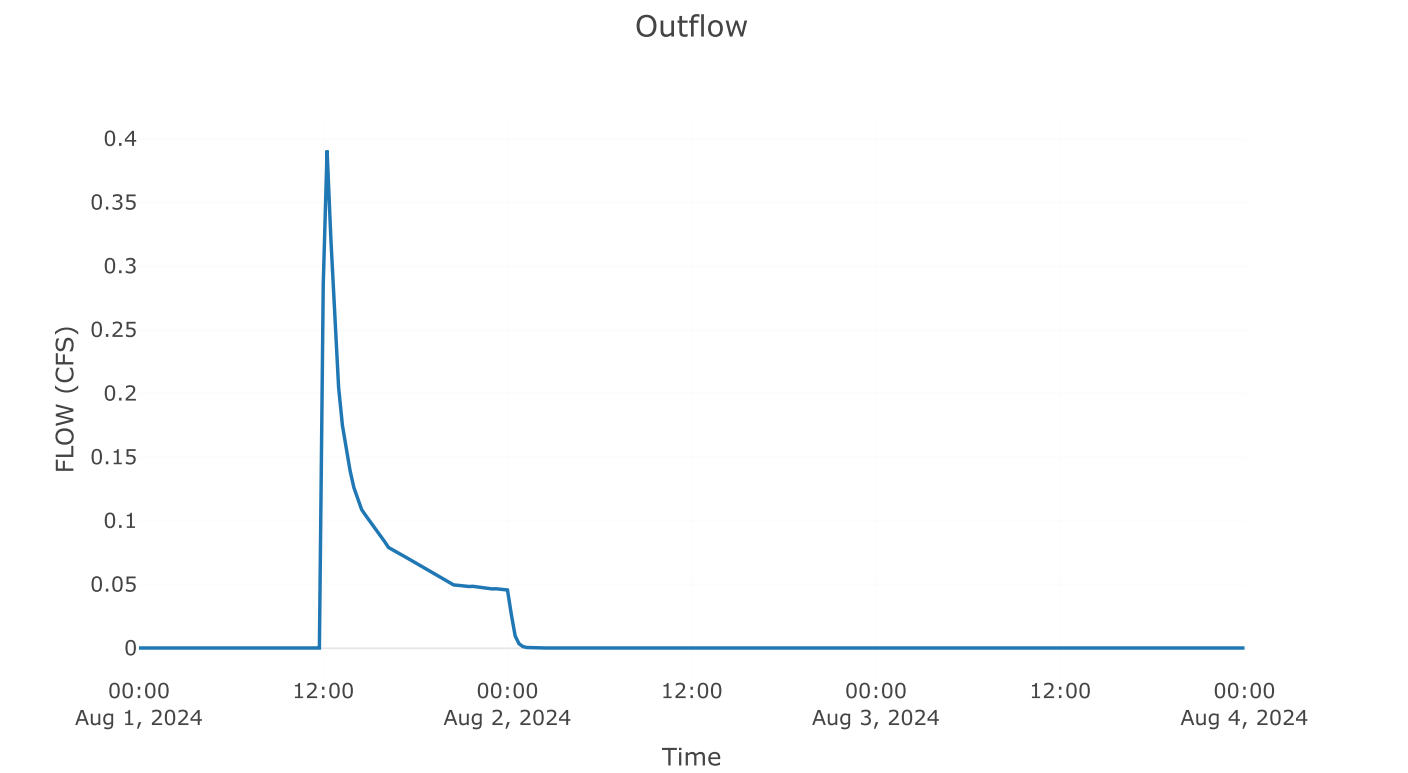


Reach: DOWNCHUTE 4.I

Downstream : Junction - I

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 4.I	
Peak Discharge (CFS)	0.39
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.39
Inflow Volume (AC - FT)	0.1



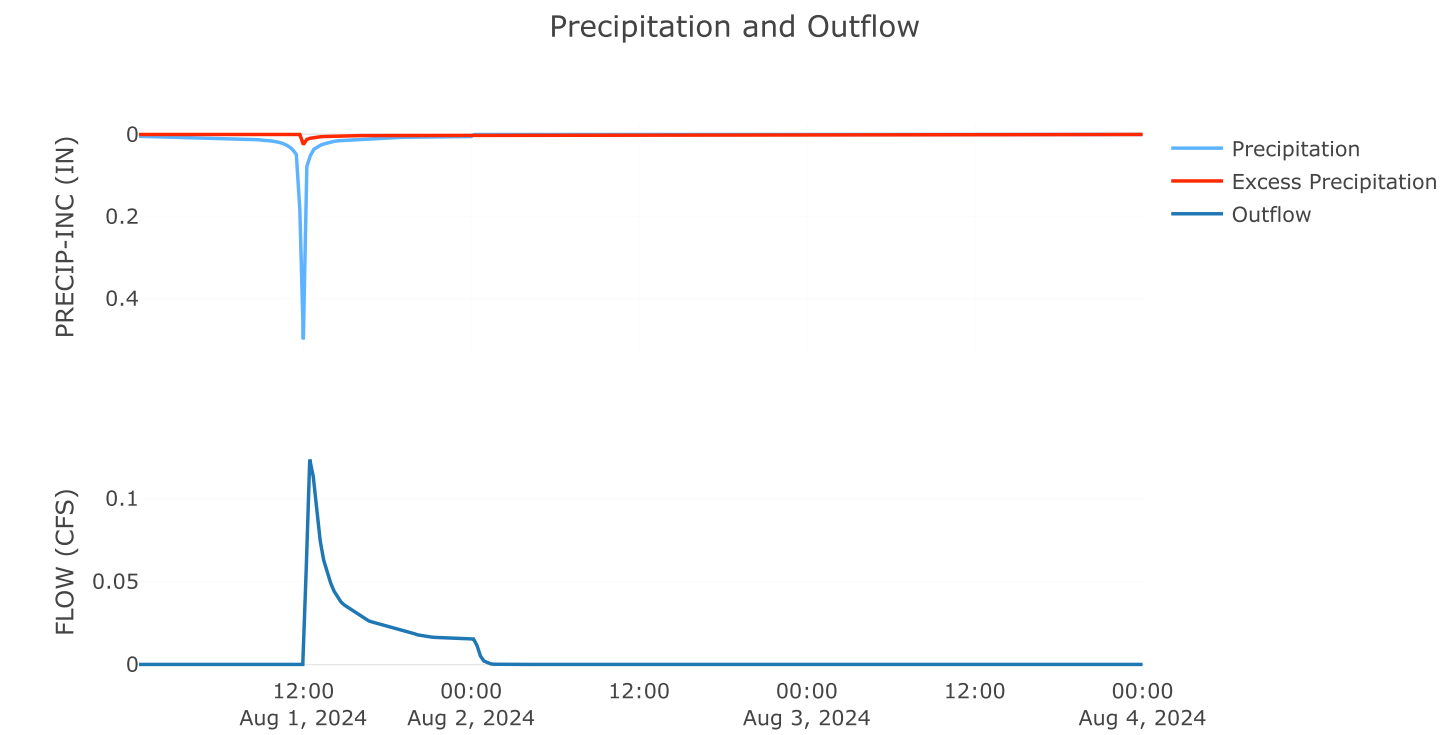
Subbasin: NW-22

Area (MI²) : 0
Downstream : Junction - I

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	19
Unitgraph Type	Standard

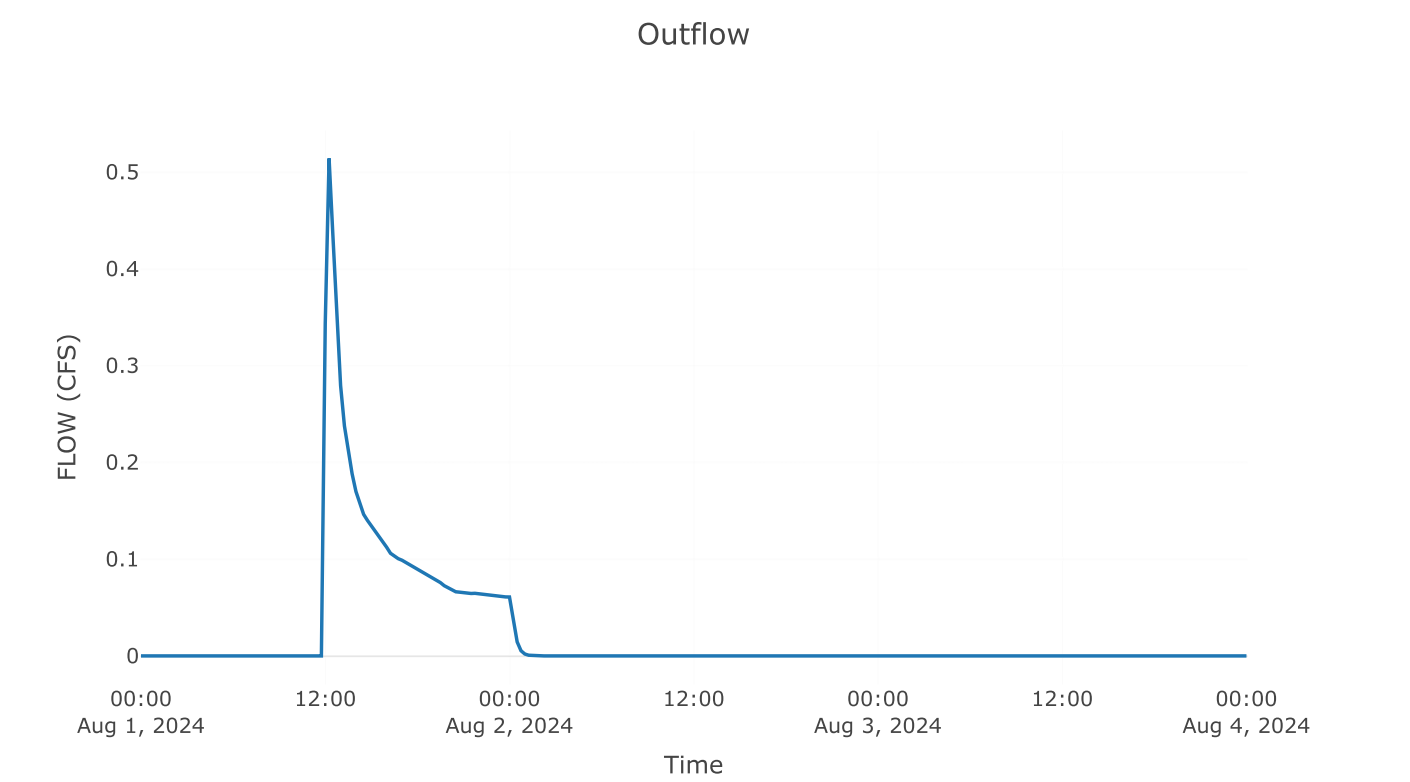
Results: NW-22	
Peak Discharge (CFS)	0.12
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.35
Loss Volume (AC - FT)	0.31
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0



Junction: Junction-1

Downstream : Downchute 4.2

Results: Junction-1	
Peak Discharge (CFS)	0.51
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

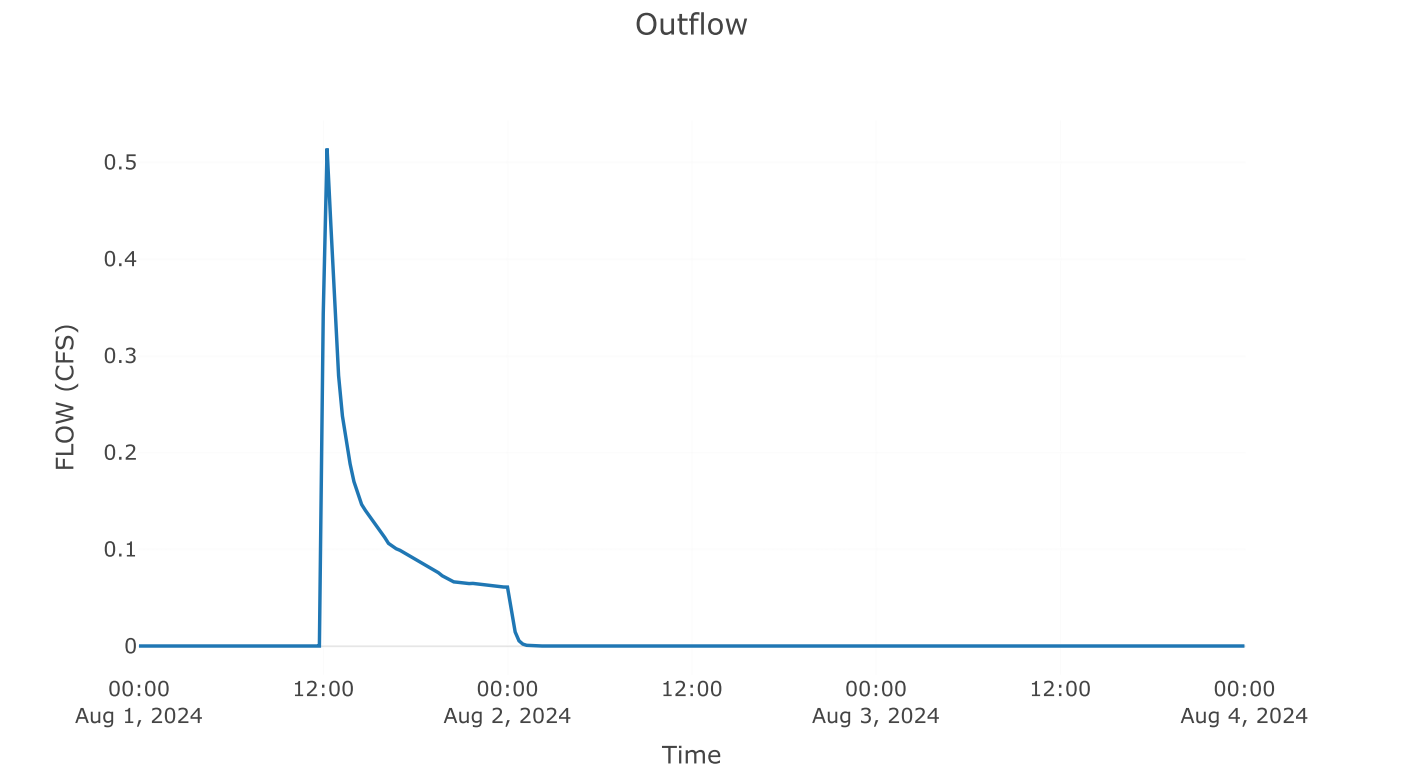


Reach: DOWNCHUTE 4.2

Downstream : Junction 4.2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 4.2	
Peak Discharge (CFS)	0.51
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.51
Inflow Volume (AC - FT)	0.13



Subbasin: NW-23

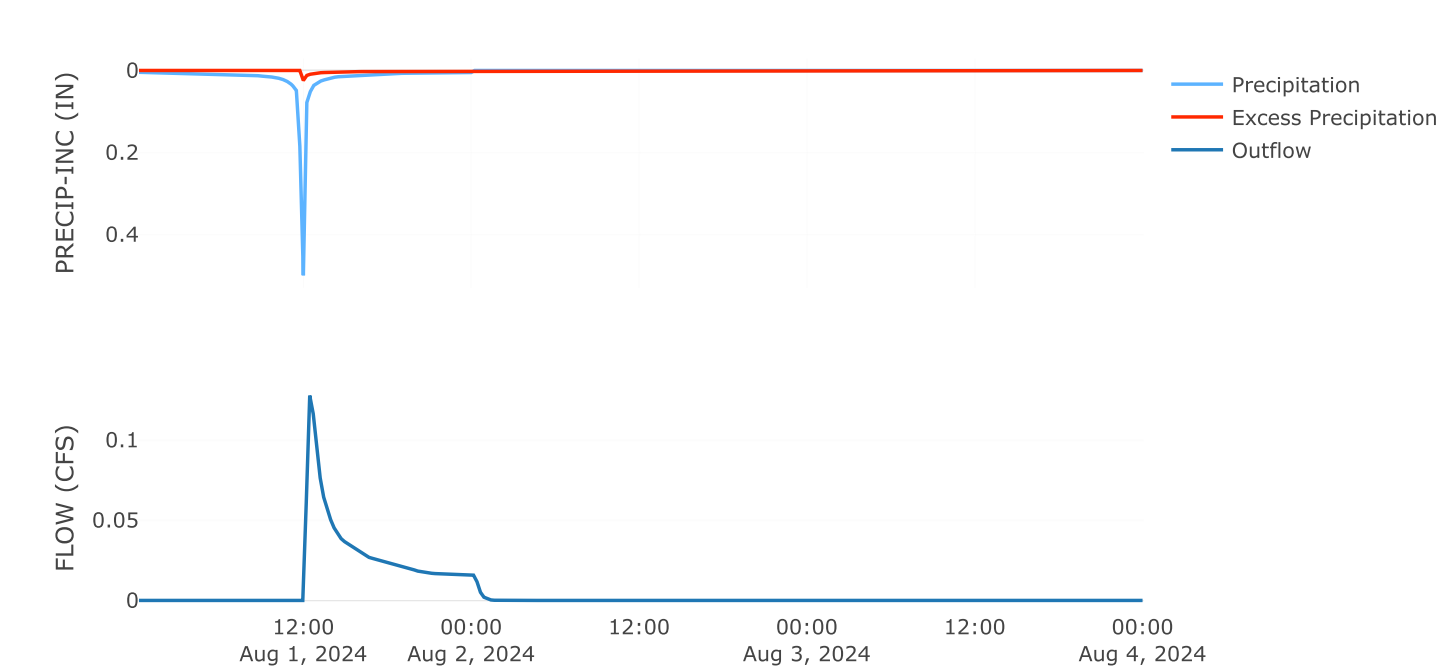
Area (MI²) : 0
Downstream : Junction 4.2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	18.8
Unitgraph Type	Standard

Results: NW-23	
Peak Discharge (CFS)	0.13
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.36
Loss Volume (AC - FT)	0.32
Excess Volume (AC - FT)	0.03
Direct Runoff Volume (AC - FT)	0.03
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



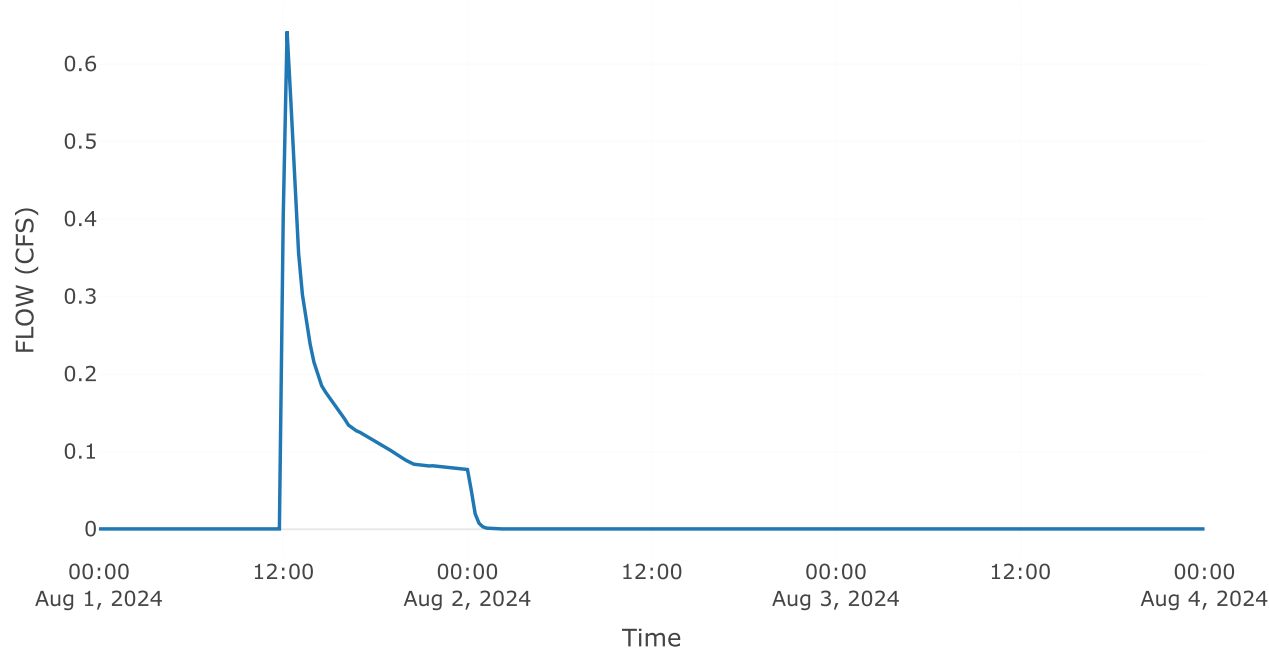
Junction: JUNCTION 4.2

Downstream : Downchute 4.3

Results: JUNCTION 4.2

Peak Discharge (CFS)	0.64
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow

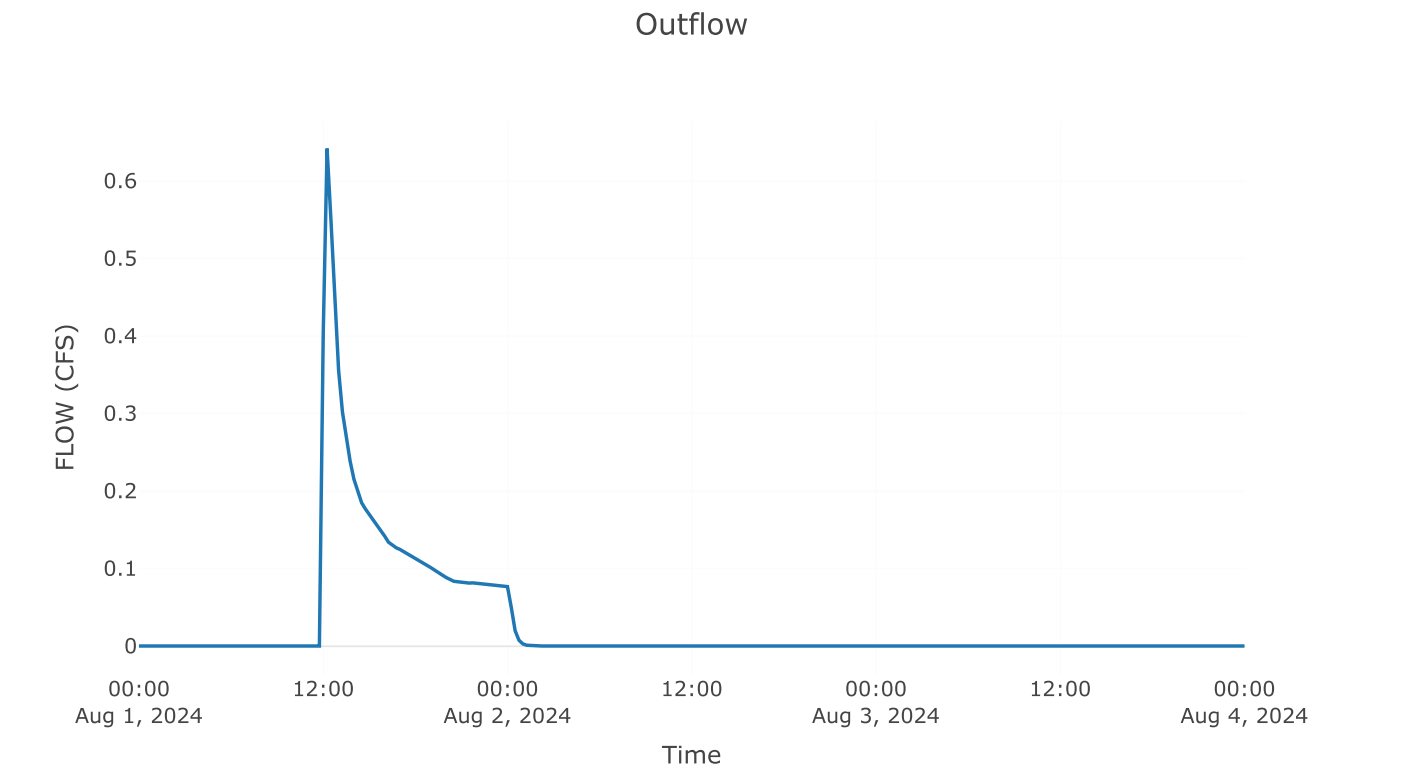


Reach: DOWNCHUTE 4.3

Downstream : Northwest pond

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 4.3	
Peak Discharge (CFS)	0.64
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.64
Inflow Volume (AC - FT)	0.16



Subbasin: NW-30

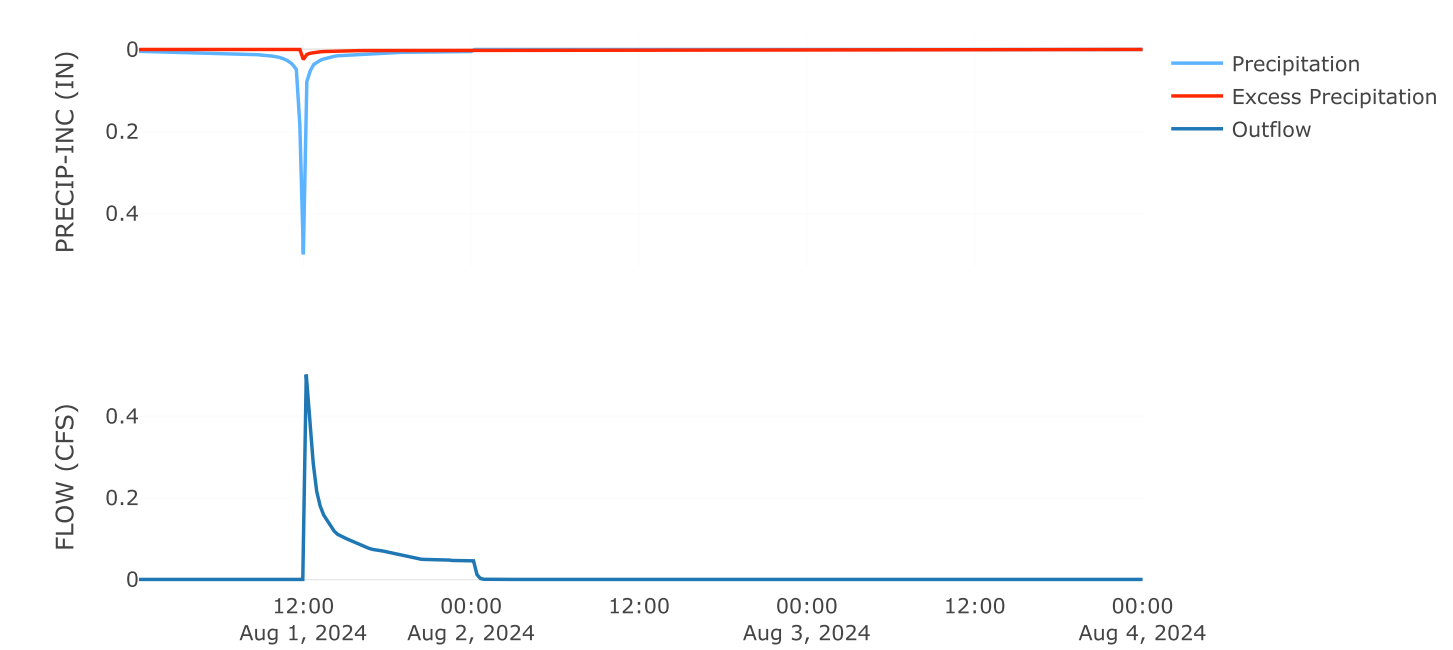
Area (MI²) : 0.01
Downstream : Northwest pond

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	1.9
Unitgraph Type	Standard

Results: NW-30	
Peak Discharge (CFS)	0.5
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	1.03
Loss Volume (AC - FT)	0.93
Excess Volume (AC - FT)	0.1
Direct Runoff Volume (AC - FT)	0.1
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



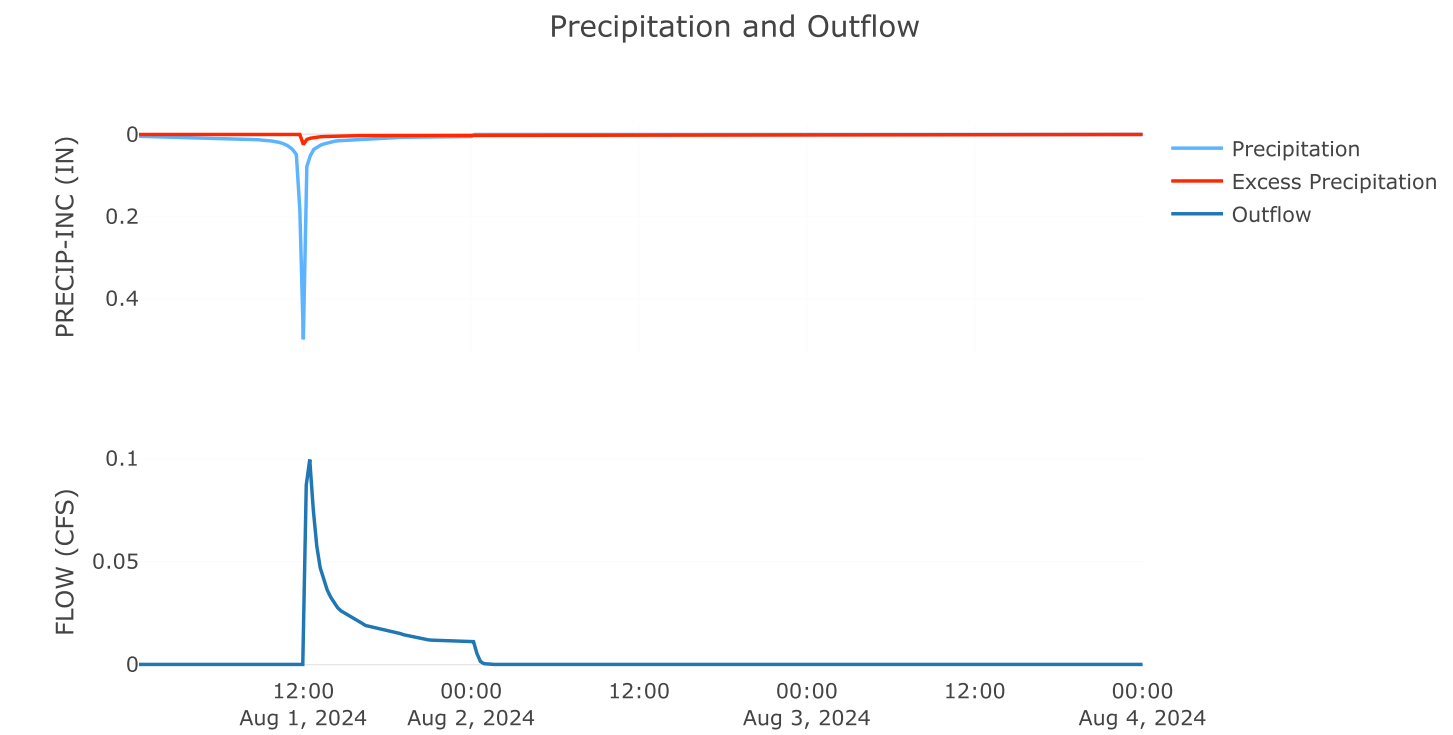
Subbasin: N-6

Area (MI²) : 0
Downstream : N junction 3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	11.6
Unitgraph Type	Standard

Results: N-6	
Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.25
Loss Volume (AC - FT)	0.23
Excess Volume (AC - FT)	0.02
Direct Runoff Volume (AC - FT)	0.02
Baseflow Volume (AC - FT)	0

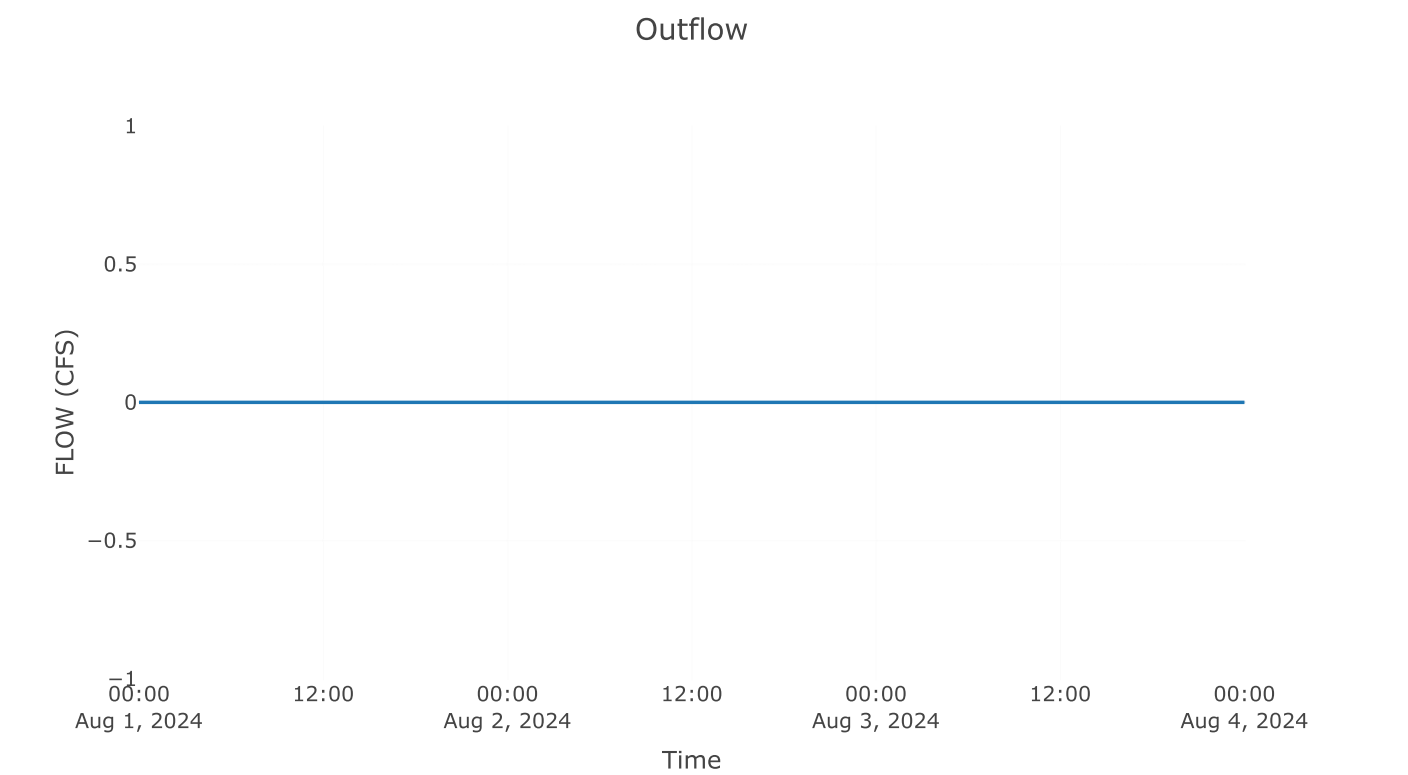


Reach: N CHANNEL 1.3

Downstream : N junction 3

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.3	
Peak Discharge (CFS)	0
Time of Peak Discharge	31Jul2024, 24:00
Peak Inflow (CFS)	0
Inflow Volume (AC - FT)	0



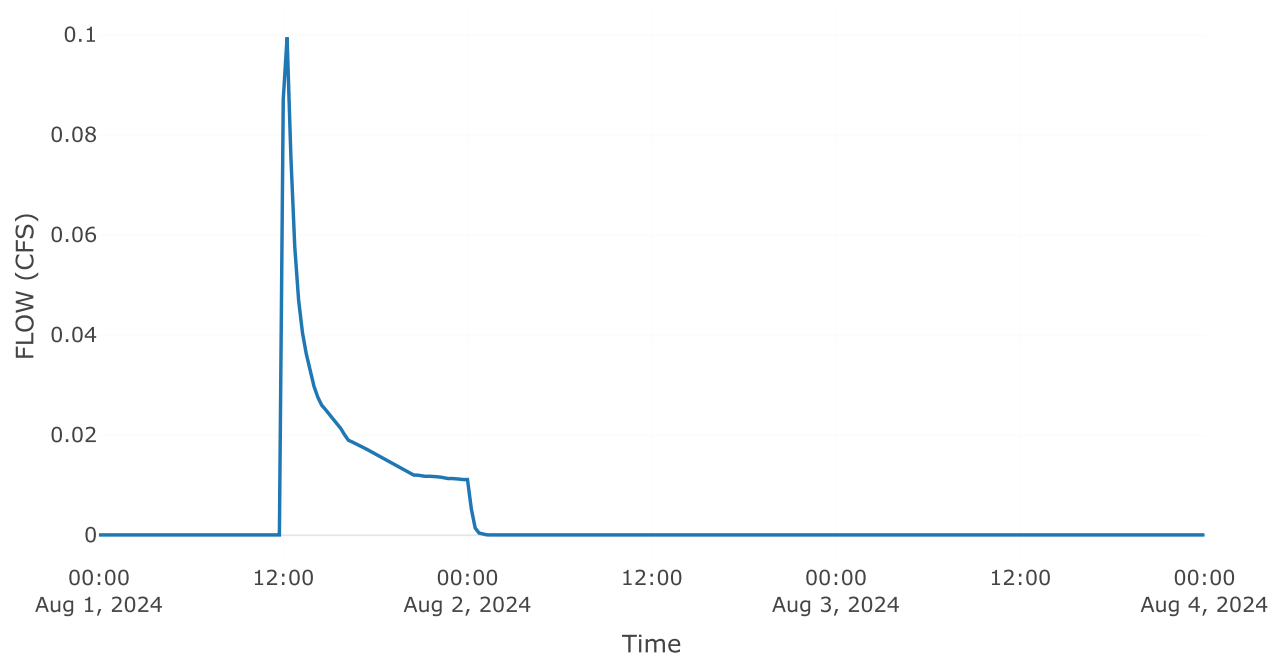
Junction: N JUNCTION 3

Downstream : N channel 1.4

Results: N JUNCTION 3

Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow

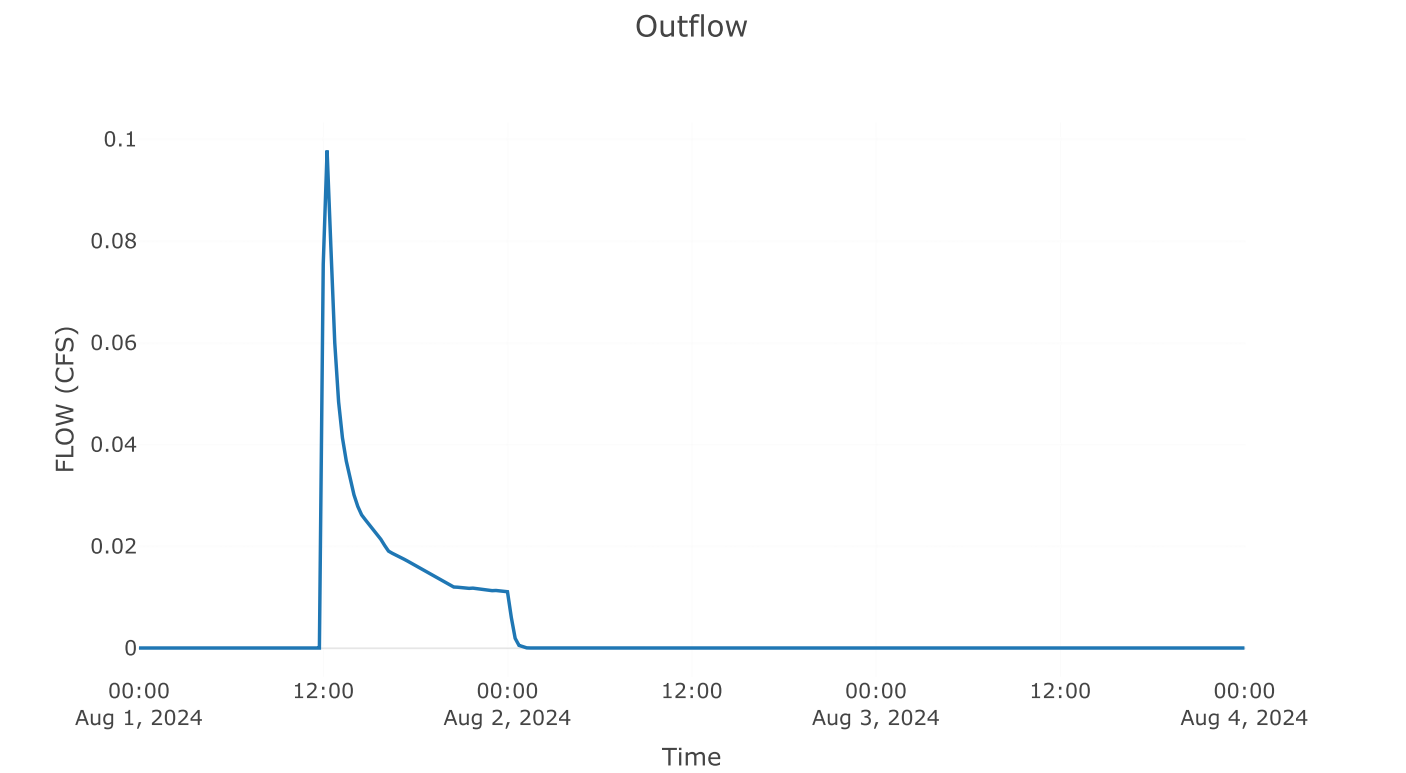


Reach: N CHANNEL 1.4

Downstream : N junction 4

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.4	
Peak Discharge (CFS)	0.1
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.1
Inflow Volume (AC - FT)	0.02



Subbasin: N-7

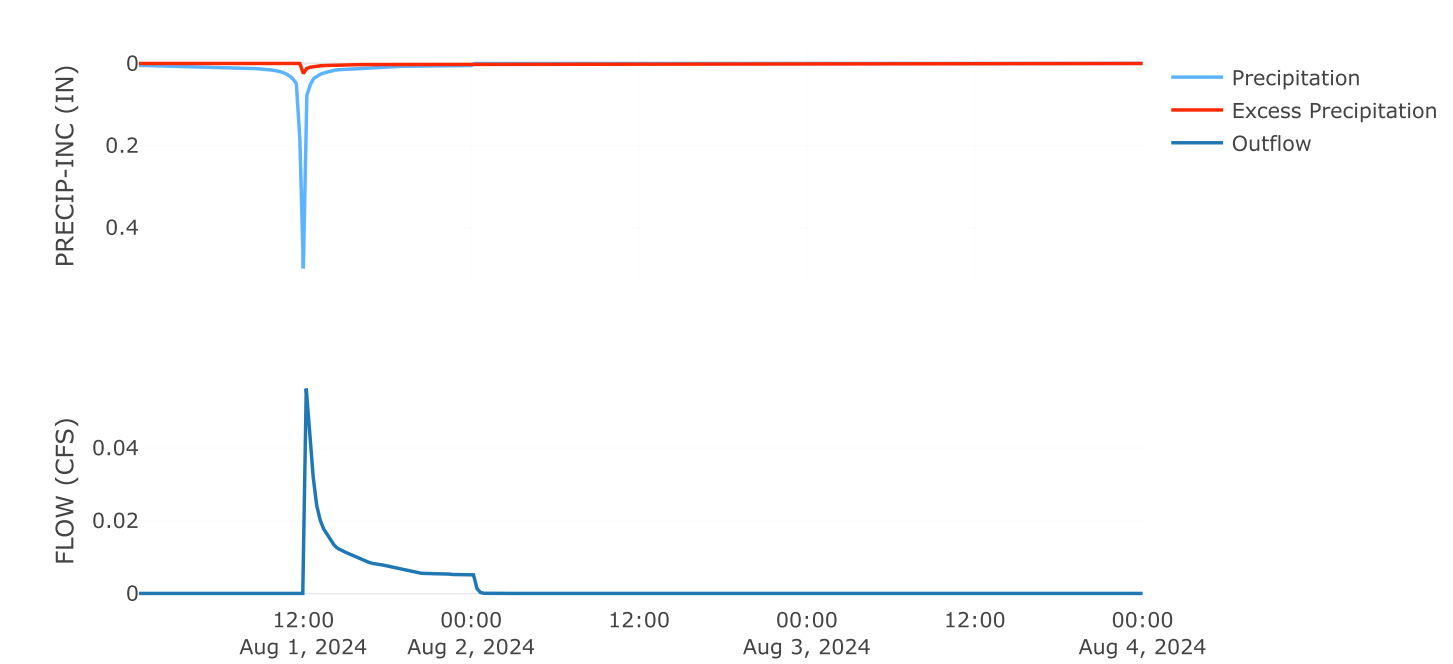
Area (MI²) : 0
Downstream : N junction 4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	6.5
Unitgraph Type	Standard

Results: N-7	
Peak Discharge (CFS)	0.06
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.12
Loss Volume (AC - FT)	0.1
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



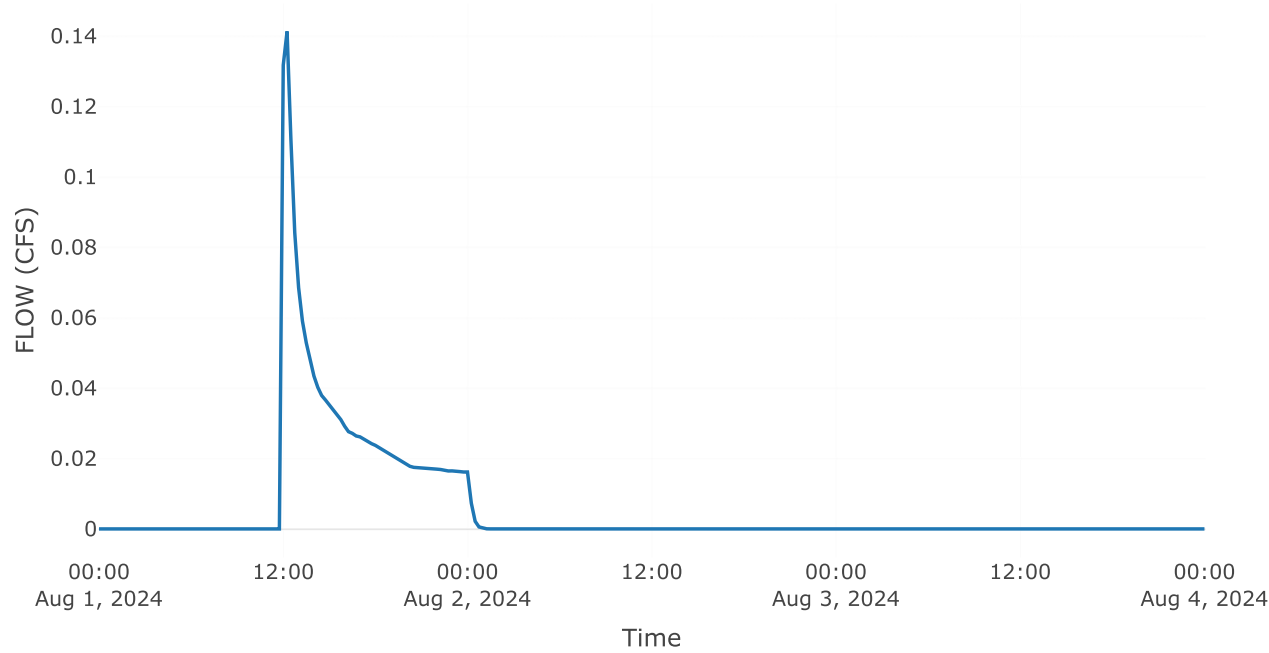
Junction: N JUNCTION 4

Downstream : N channel 1.5

Results: N JUNCTION 4

Peak Discharge (CFS)	0.14
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow



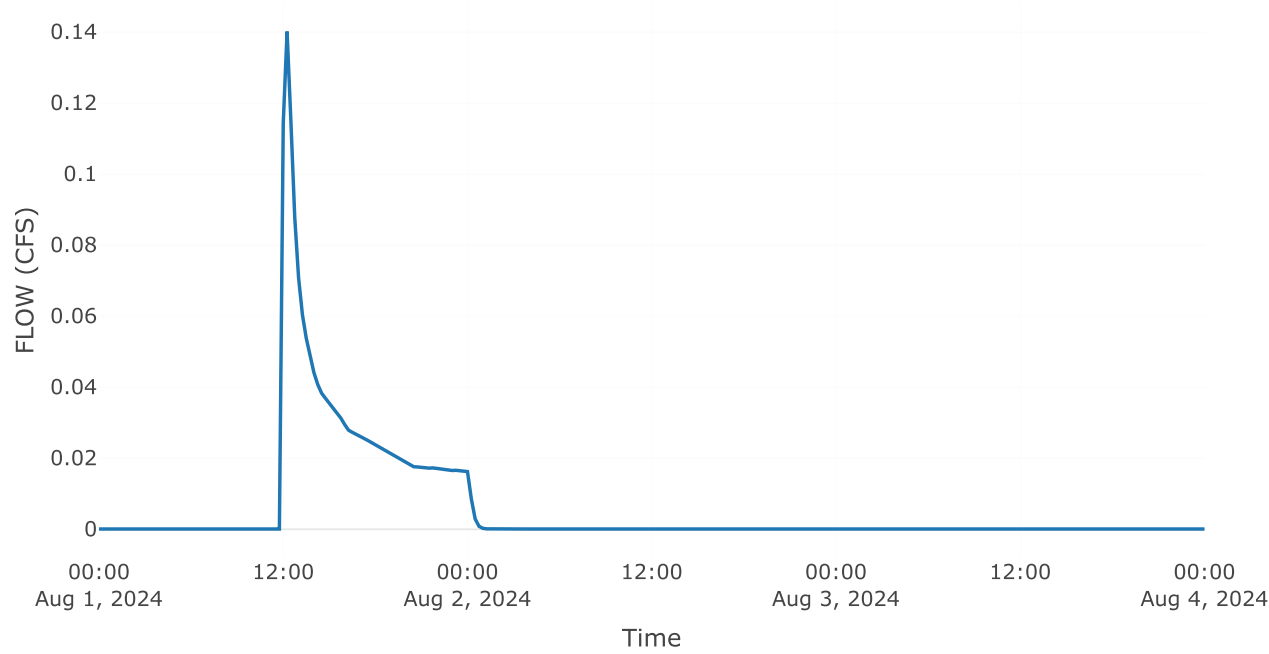
Reach: N CHANNEL 1.5

Downstream : N junction 5

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.5	
Peak Discharge (CFS)	0.14
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.14
Inflow Volume (AC - FT)	0.03

Outflow



Subbasin: N-8

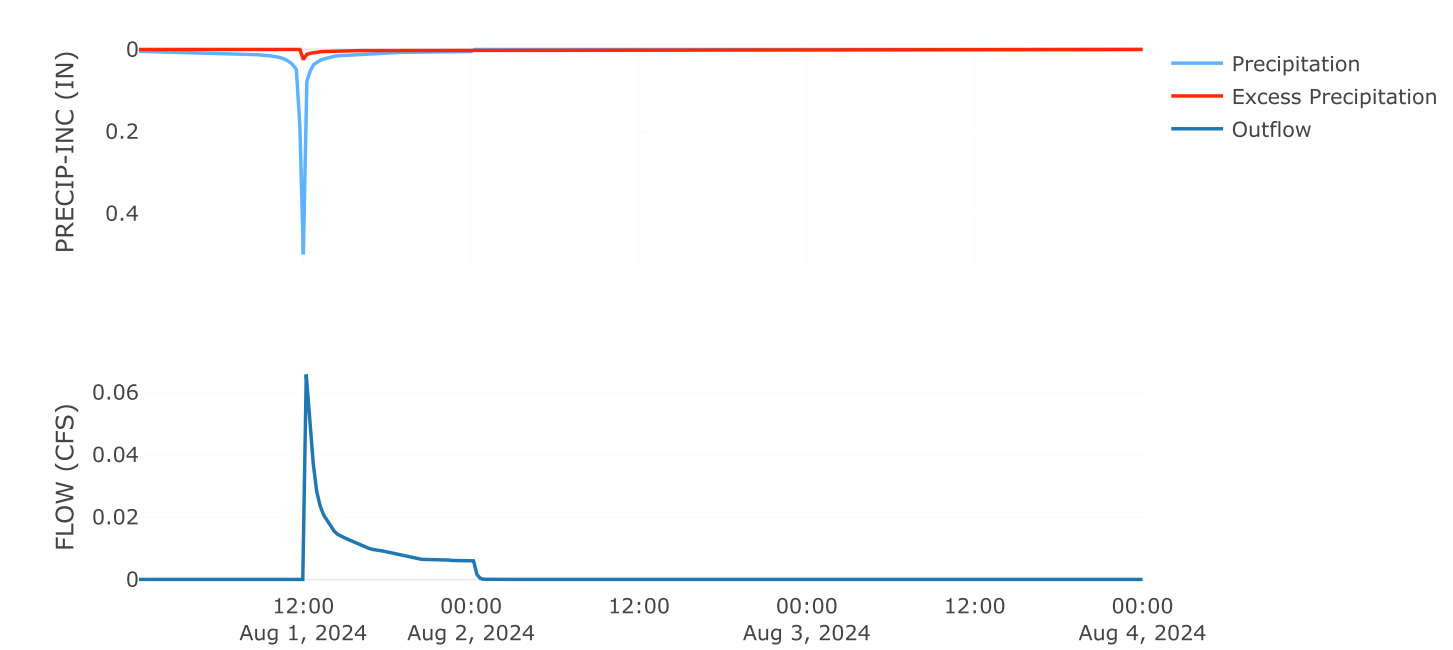
Area (MI²) : 0
Downstream : N junction 5

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	7.4
Unitgraph Type	Standard

Results: N-8	
Peak Discharge (CFS)	0.07
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.13
Loss Volume (AC - FT)	0.12
Excess Volume (AC - FT)	0.01
Direct Runoff Volume (AC - FT)	0.01
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



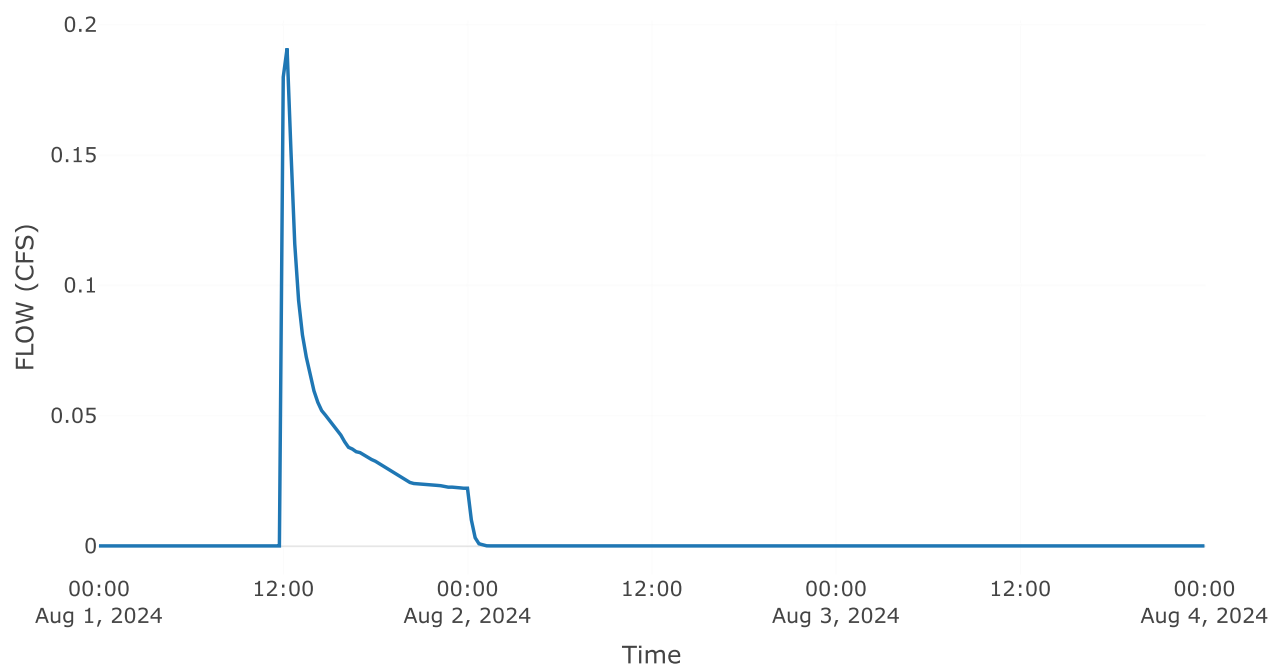
Junction: N JUNCTION 5

Downstream : N channel 1.6

Results: N JUNCTION 5

Peak Discharge (CFS)	0.19
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17

Outflow

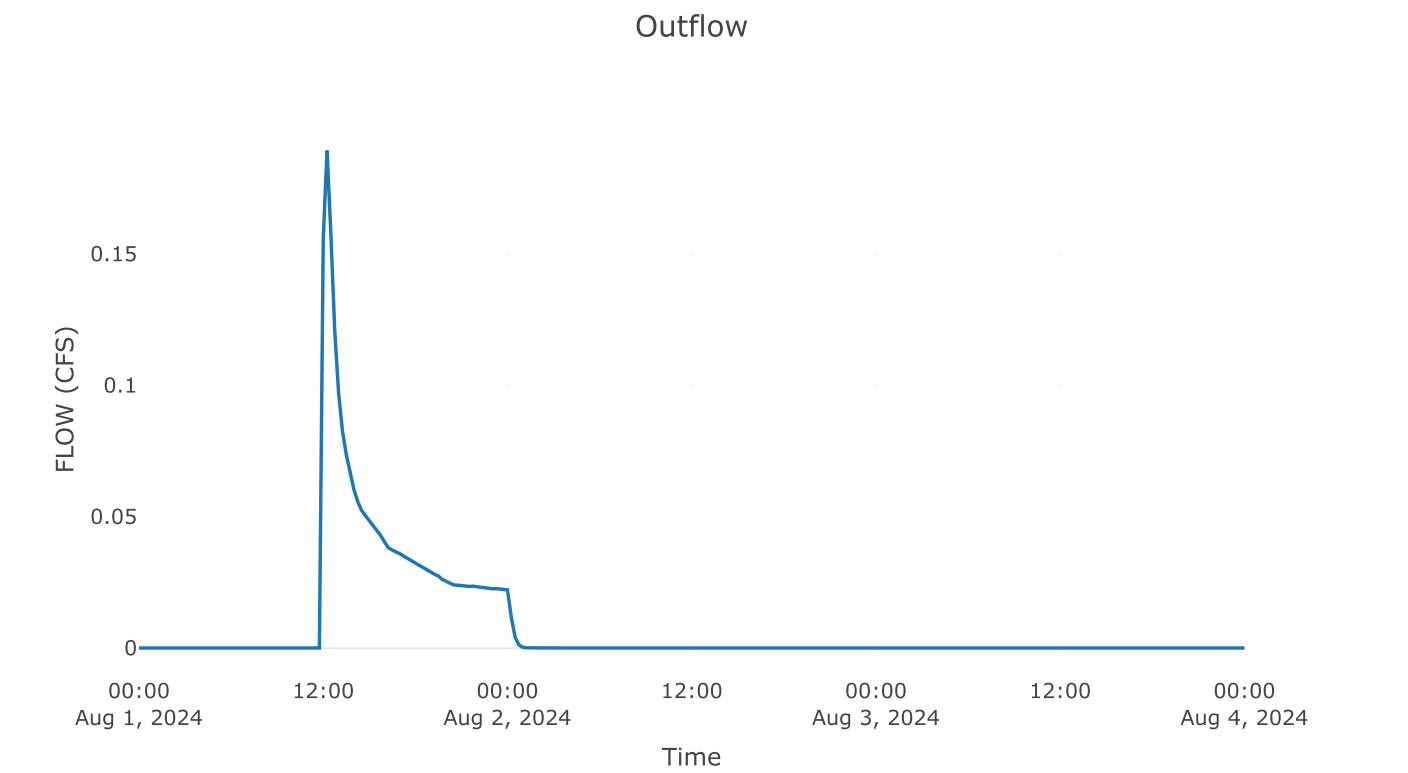


Reach: N CHANNEL 1.6

Downstream : Northwest pond

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.6	
Peak Discharge (CFS)	0.19
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Peak Inflow (CFS)	0.19
Inflow Volume (AC - FT)	0.05

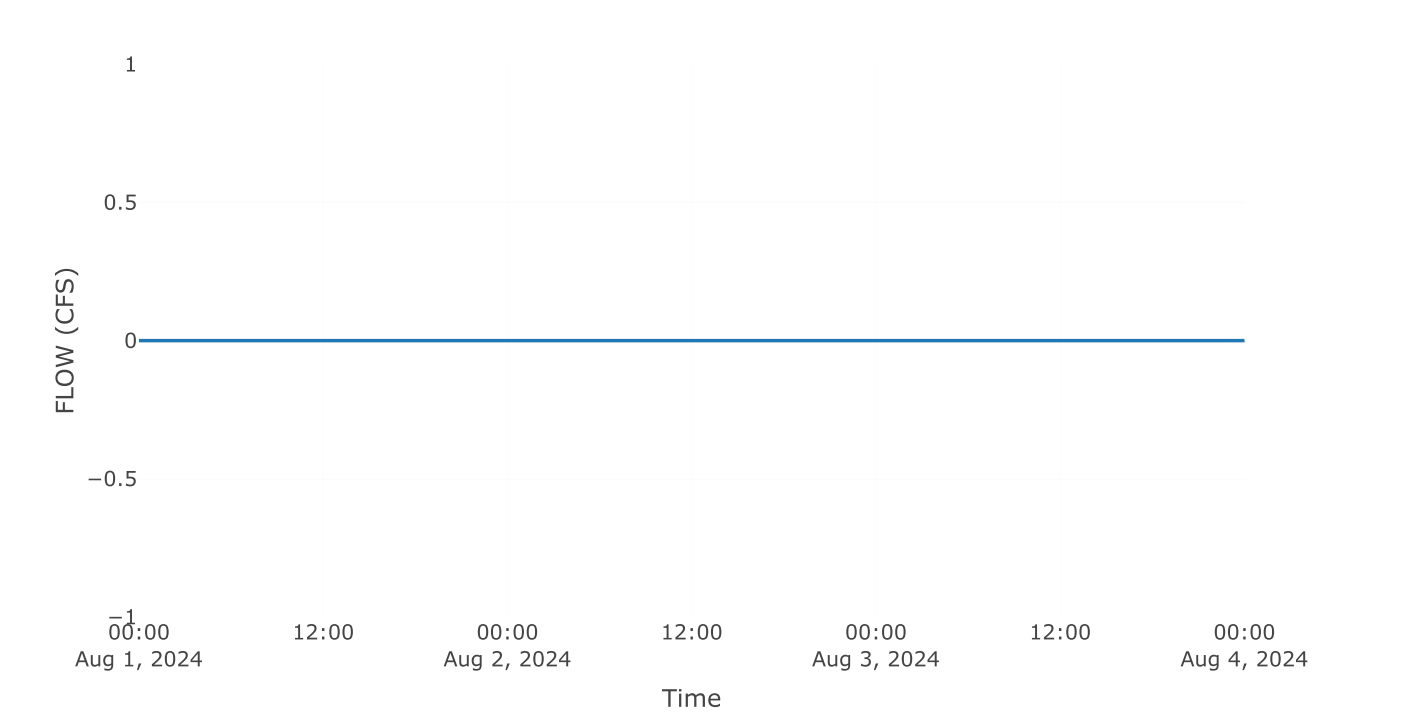


Reservoir: NORTHWEST POND

Results: NORTHWEST POND

Peak Discharge (CFS)	0
Time of Peak Discharge	31Jul2024, 24:00
Volume (IN)	0
Peak Inflow (CFS)	4.06
Time of Peak Inflow	01Aug2024, 12:15
Inflow Volume (AC - FT)	1.09
Maximum Storage (AC - FT)	1.09
Peak Elevation (FT)	2617.07
Discharge Volume (AC - FT)	0

Outflow



Subbasin: E-1

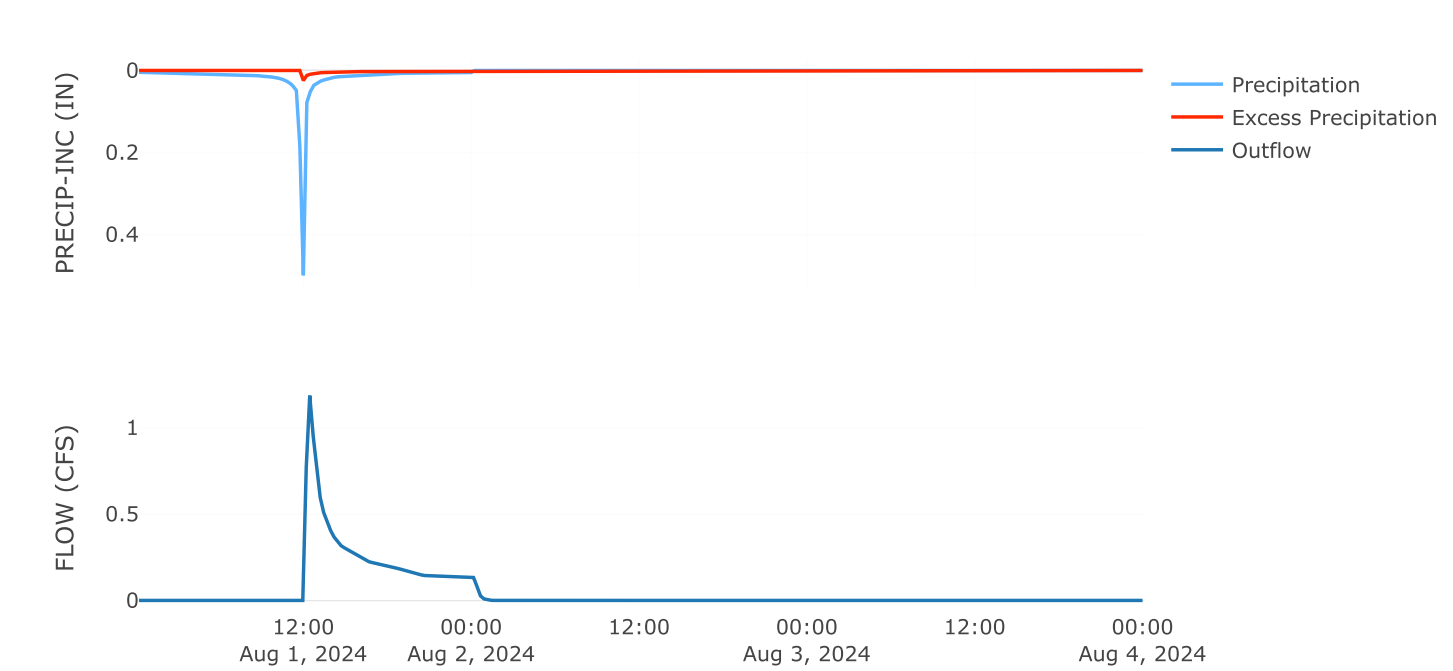
Area (MI²) : 0.03
Downstream : East channel

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	14.7
Unitgraph Type	Standard

Results: E-1	
Peak Discharge (CFS)	1.19
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	3
Loss Volume (AC - FT)	2.71
Excess Volume (AC - FT)	0.28
Direct Runoff Volume (AC - FT)	0.28
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



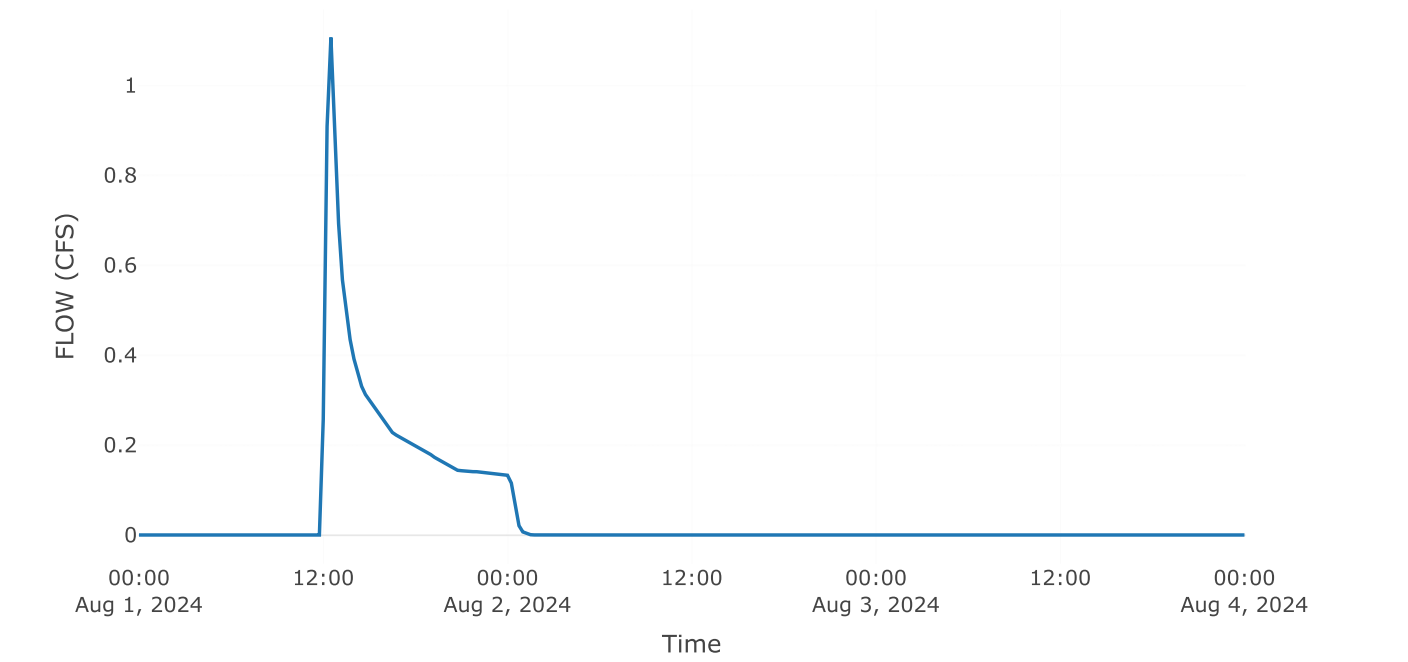
Reach: EAST CHANNEL

Downstream : East pond

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	10.1

Results: EAST CHANNEL	
Peak Discharge (CFS)	1.11
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	1.19
Inflow Volume (AC - FT)	0.28

Outflow



Subbasin: SW-1

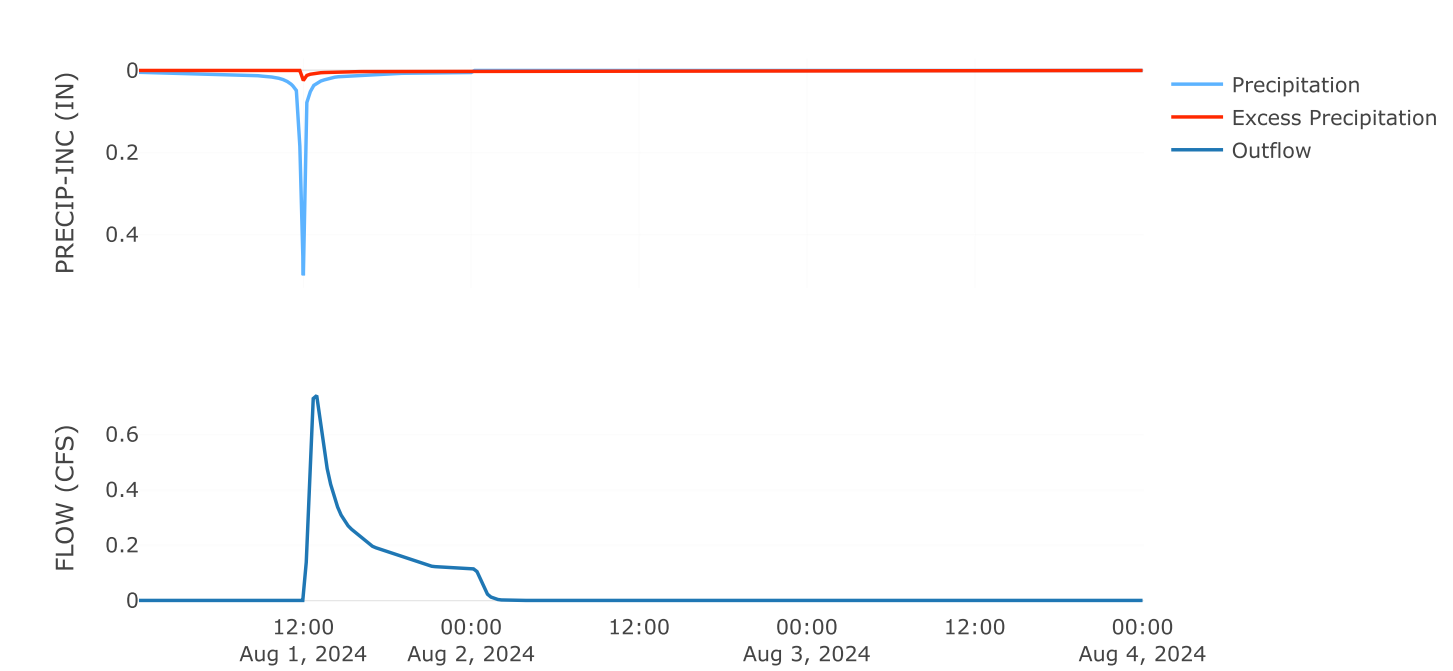
Area (MI²) : 0.03
Downstream : Sw channel 1.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	31.7
Unitgraph Type	Standard

Results: SW-1	
Peak Discharge (CFS)	0.74
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Precipitation Volume (AC - FT)	2.55
Loss Volume (AC - FT)	2.31
Excess Volume (AC - FT)	0.24
Direct Runoff Volume (AC - FT)	0.24
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

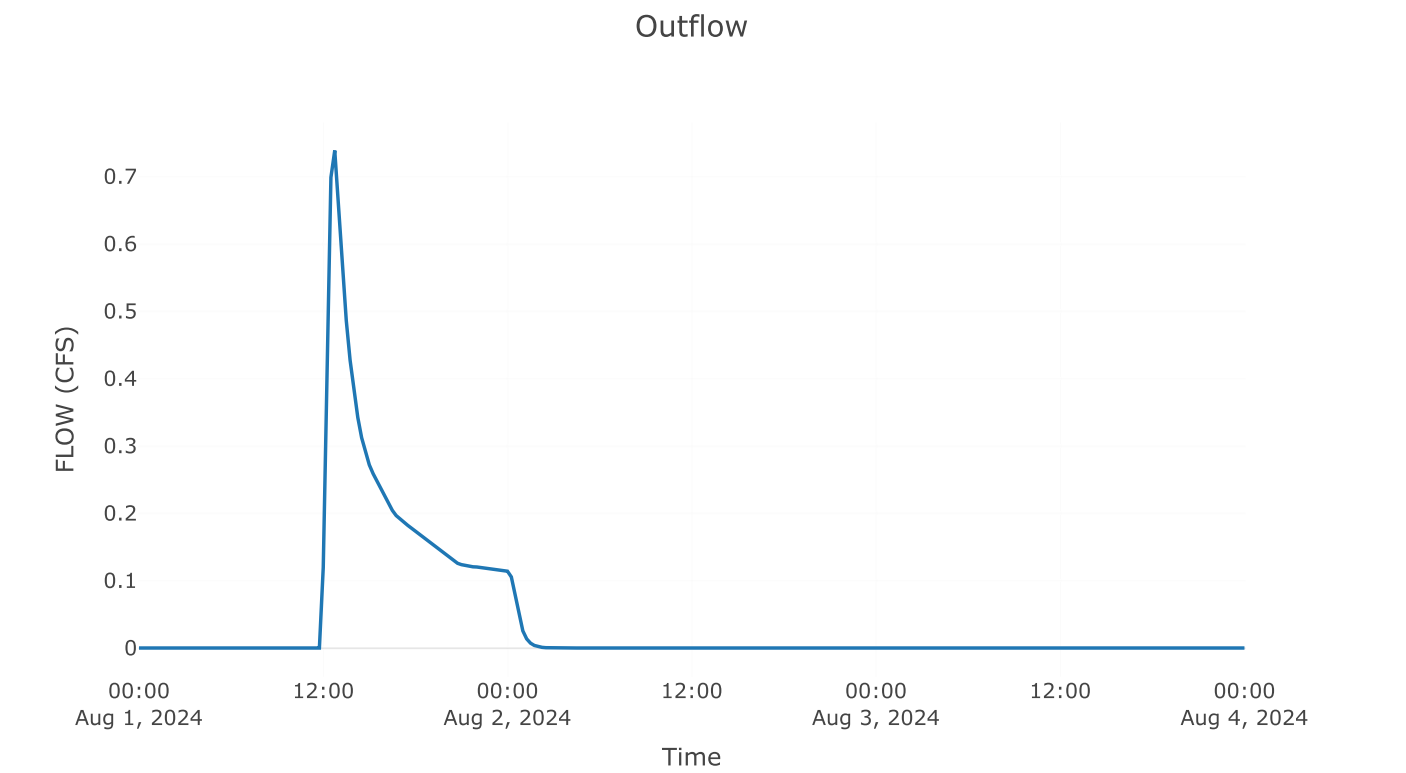


Reach: SW CHANNEL 1.1

Downstream : Sw junction 1

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.1	
Peak Discharge (CFS)	0.74
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	0.74
Inflow Volume (AC - FT)	0.24



Subbasin: SW-2

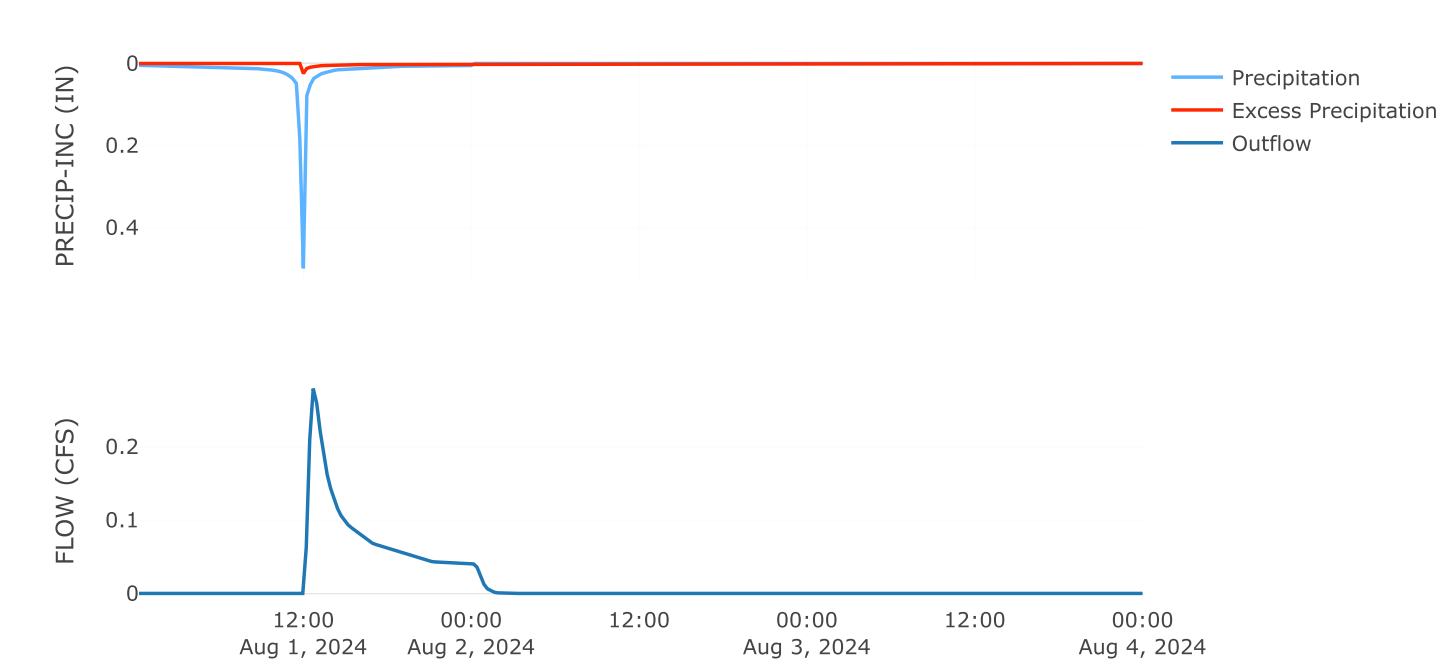
Area (MI²) : 0.01
Downstream : Sw junction 1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	28.5
Unitgraph Type	Standard

Results: SW-2	
Peak Discharge (CFS)	0.28
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.9
Loss Volume (AC - FT)	0.82
Excess Volume (AC - FT)	0.09
Direct Runoff Volume (AC - FT)	0.09
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



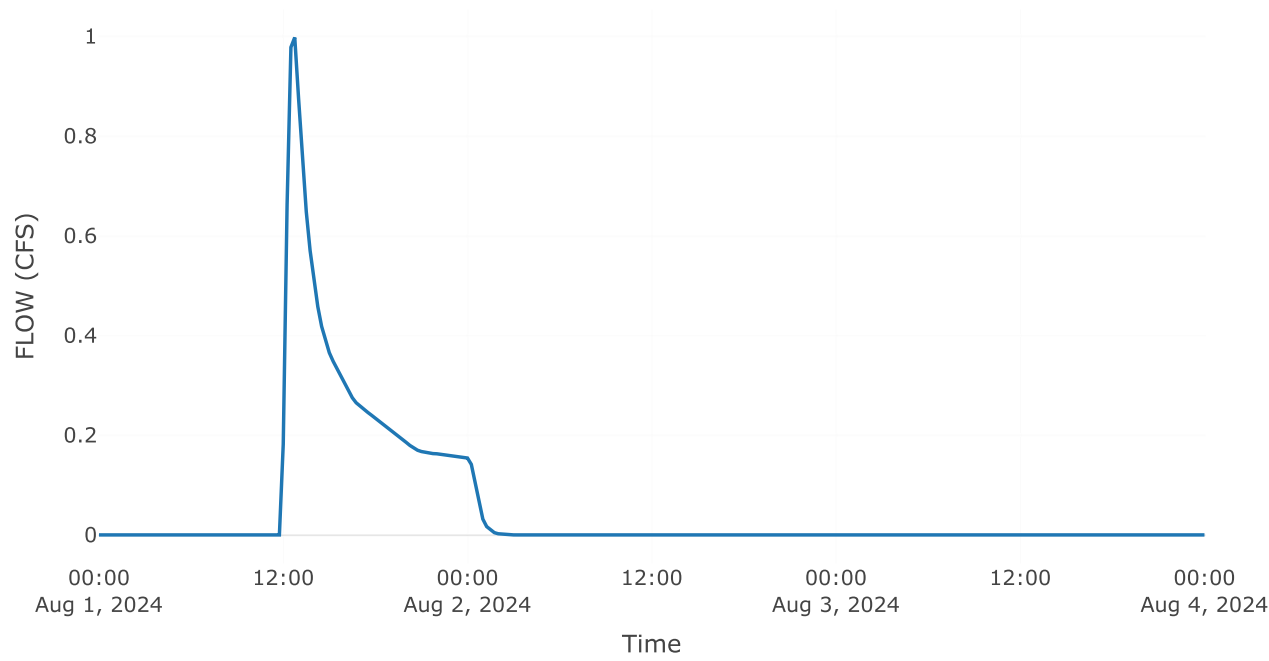
Junction: SW JUNCTION 1

Downstream : Sw channel 1.2

Results: SW JUNCTION 1

Peak Discharge (CFS)	1
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17

Outflow

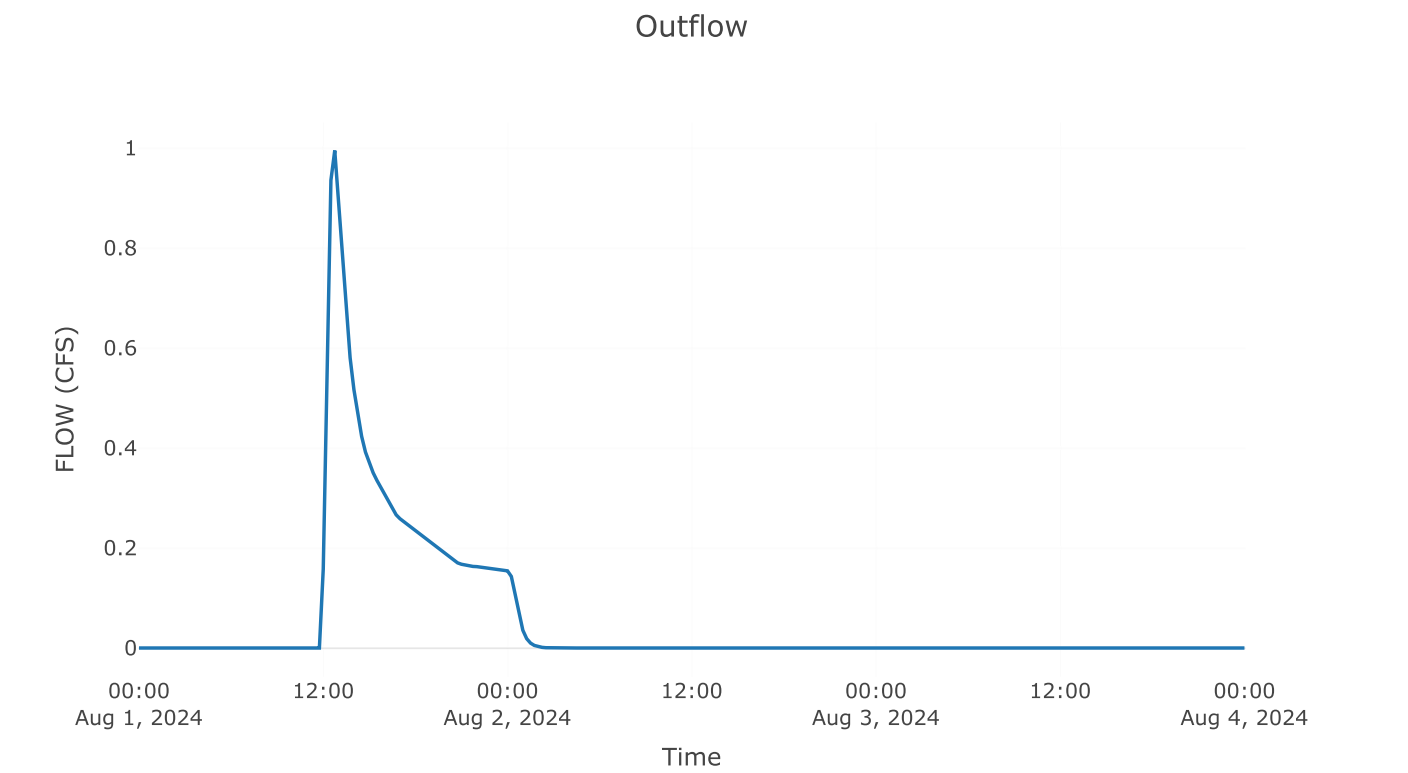


Reach: SW CHANNEL 1.2

Downstream : Sw junction 2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.2	
Peak Discharge (CFS)	1
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	1
Inflow Volume (AC - FT)	0.33



Subbasin: SW-3

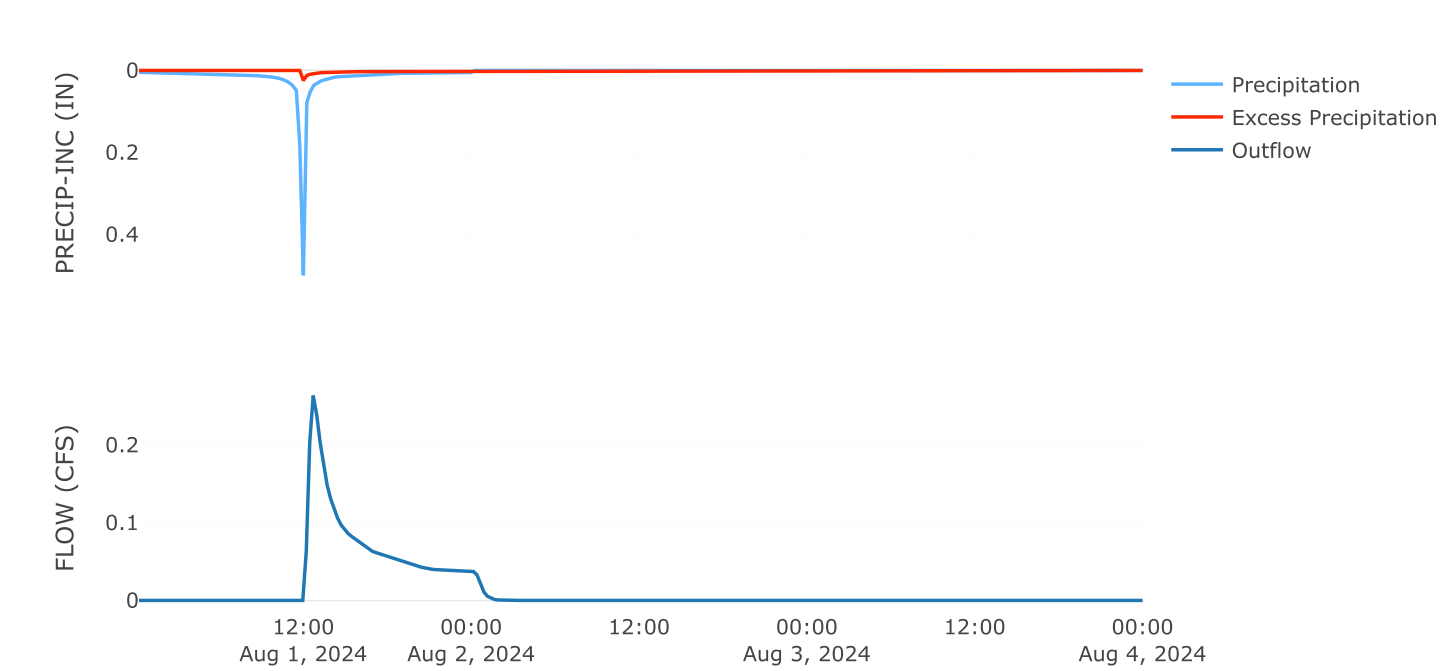
Area (MI²) : 0.01
Downstream : Sw junction 2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	27.5
Unitgraph Type	Standard

Results: SW-3	
Peak Discharge (CFS)	0.26
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.84
Loss Volume (AC - FT)	0.76
Excess Volume (AC - FT)	0.08
Direct Runoff Volume (AC - FT)	0.08
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



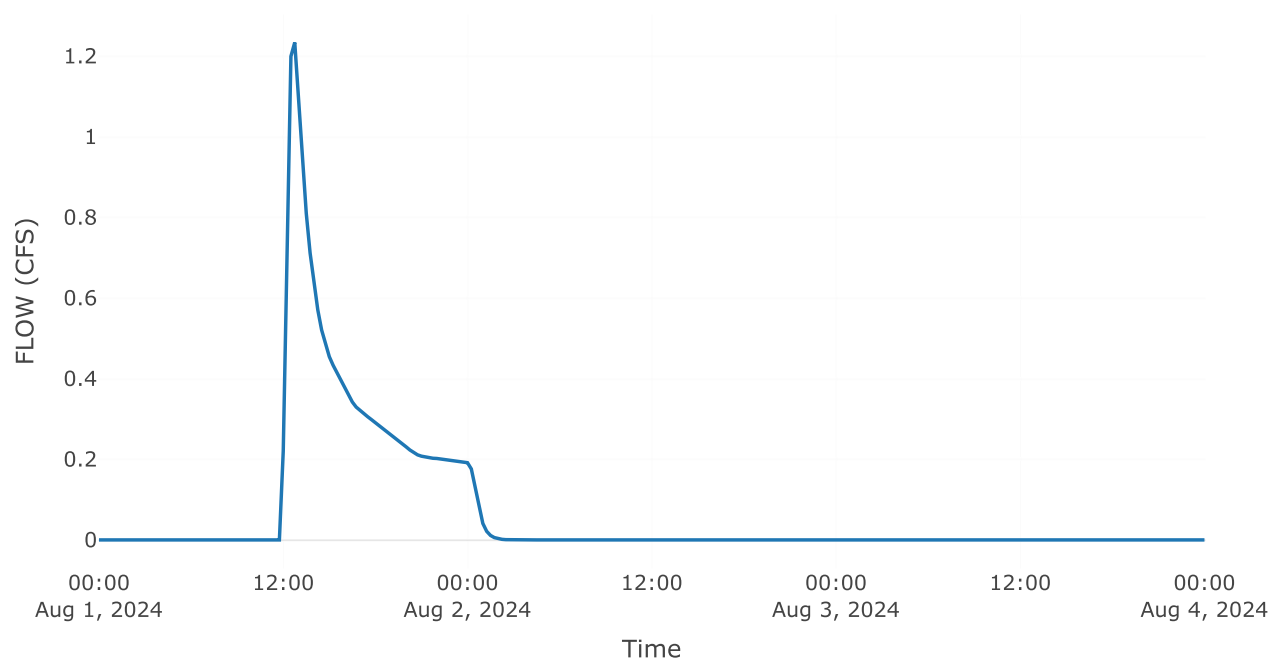
Junction: SW JUNCTION 2

Downstream : Sw channel 1.3

Results: SW JUNCTION 2

Peak Discharge (CFS)	1.23
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17

Outflow

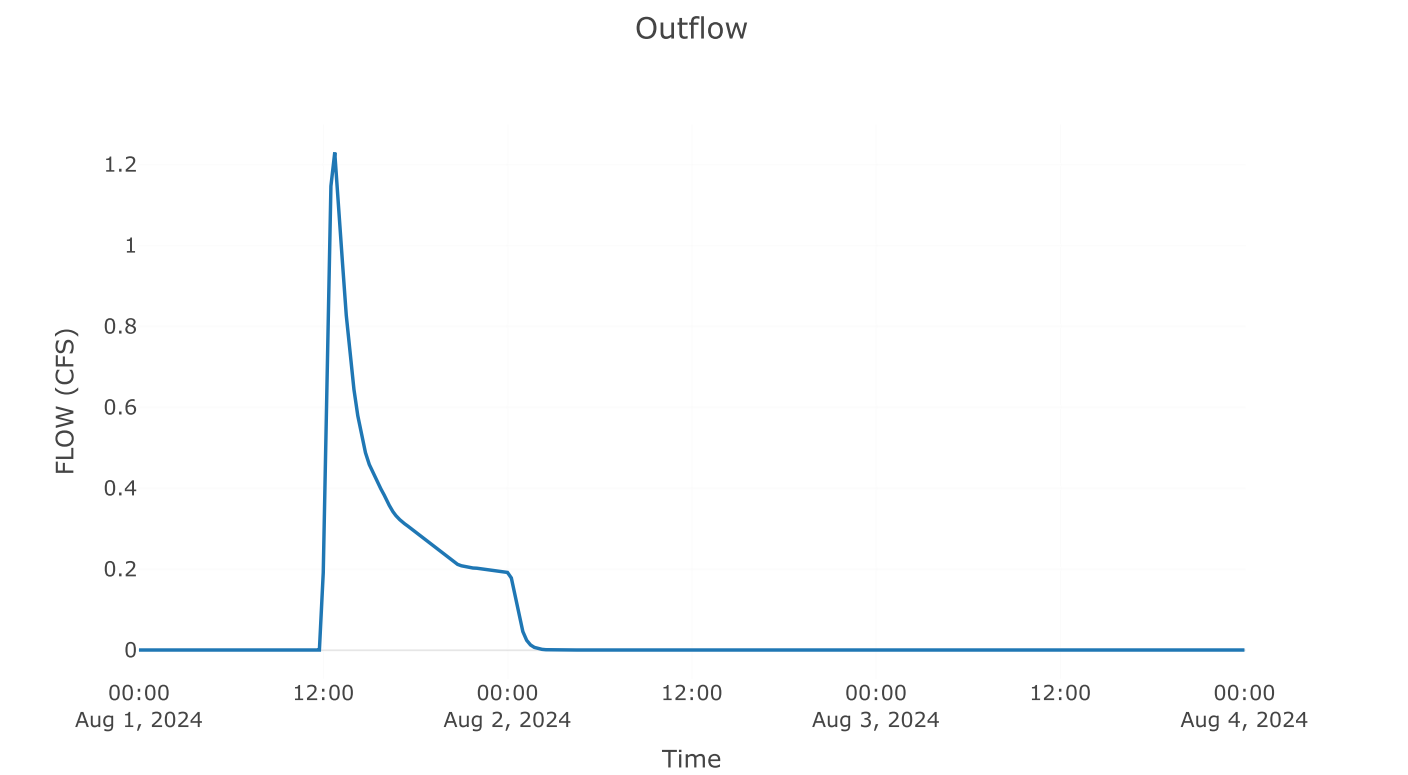


Reach: SW CHANNEL 1.3

Downstream : Sw junction 3

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.3	
Peak Discharge (CFS)	1.23
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	1.23
Inflow Volume (AC - FT)	0.41



Subbasin: SW-4

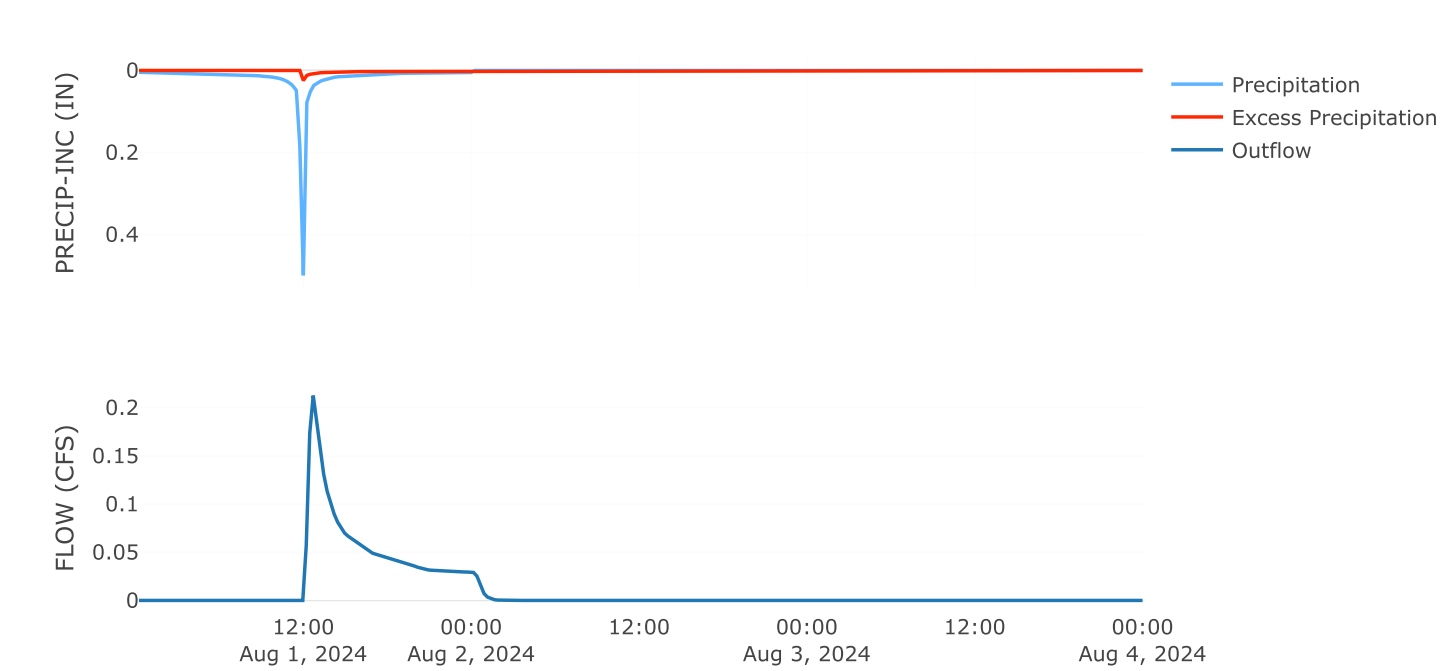
Area (MI²) : 0.01
Downstream : Sw junction 3

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	25.6
Unitgraph Type	Standard

Results: SW-4	
Peak Discharge (CFS)	0.21
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.65
Loss Volume (AC - FT)	0.59
Excess Volume (AC - FT)	0.06
Direct Runoff Volume (AC - FT)	0.06
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



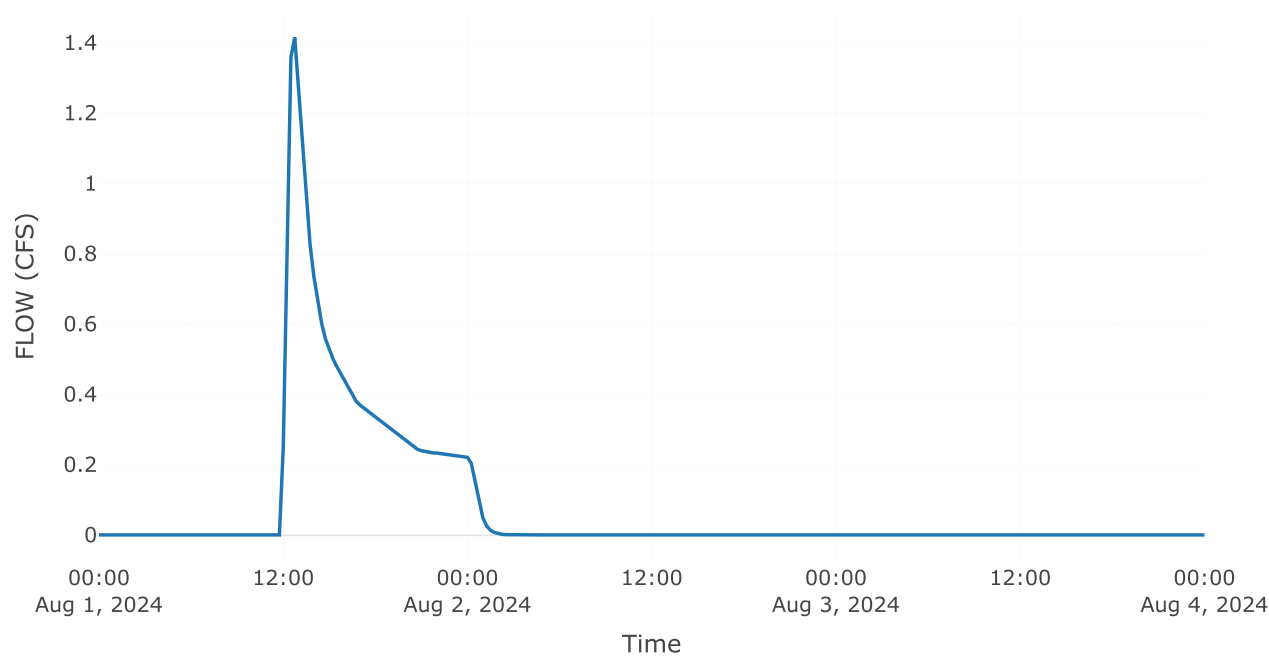
Junction: SW JUNCTION 3

Downstream : Sw channel 1.4

Results: SW JUNCTION 3

Peak Discharge (CFS)	1.41
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17

Outflow

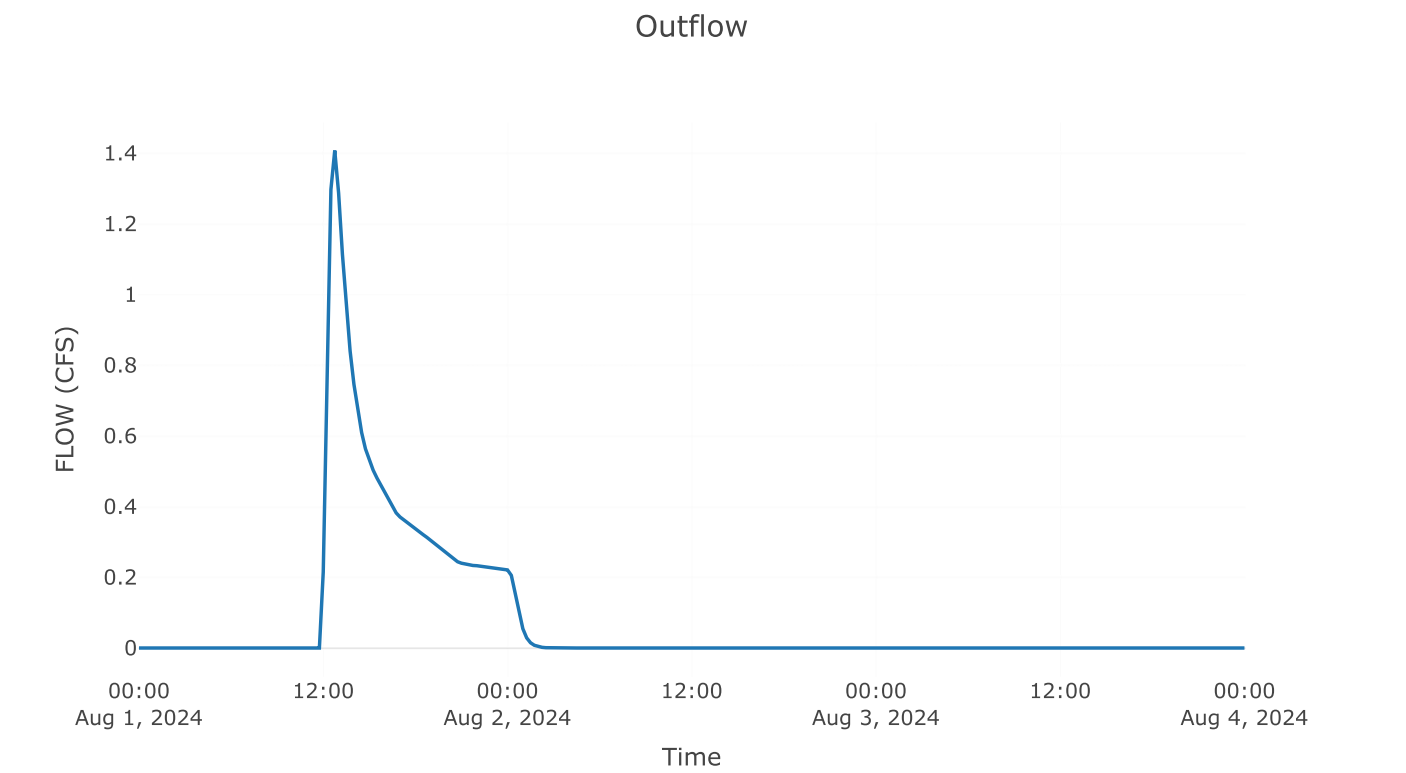


Reach: SW CHANNEL 1.4

Downstream : Sw junction 4

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.4	
Peak Discharge (CFS)	1.41
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	1.41
Inflow Volume (AC - FT)	0.47



Subbasin: SW-5

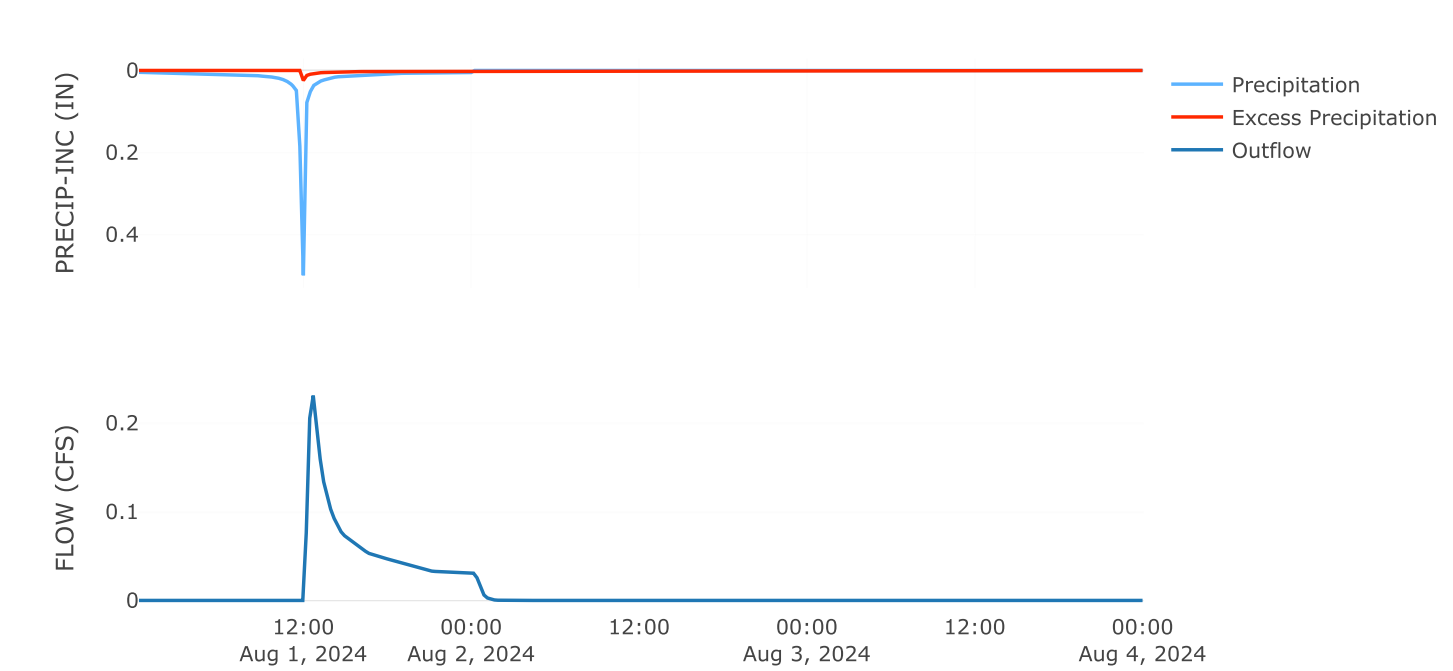
Area (MI²) : 0.01
Downstream : Sw junction 4

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	23.1
Unitgraph Type	Standard

Results: SW-5	
Peak Discharge (CFS)	0.23
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.69
Loss Volume (AC - FT)	0.63
Excess Volume (AC - FT)	0.07
Direct Runoff Volume (AC - FT)	0.07
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

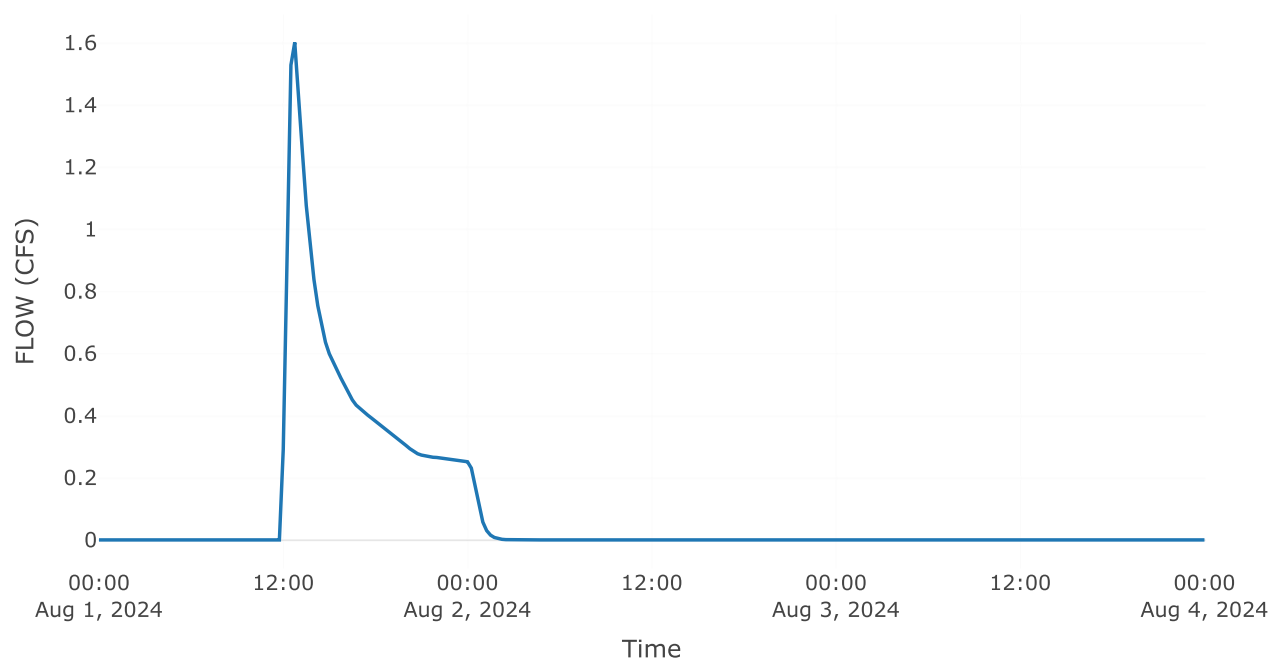


Junction: SW JUNCTION 4

Downstream : Sw channel 1.5

Results: SW JUNCTION 4	
Peak Discharge (CFS)	1.6
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17

Outflow

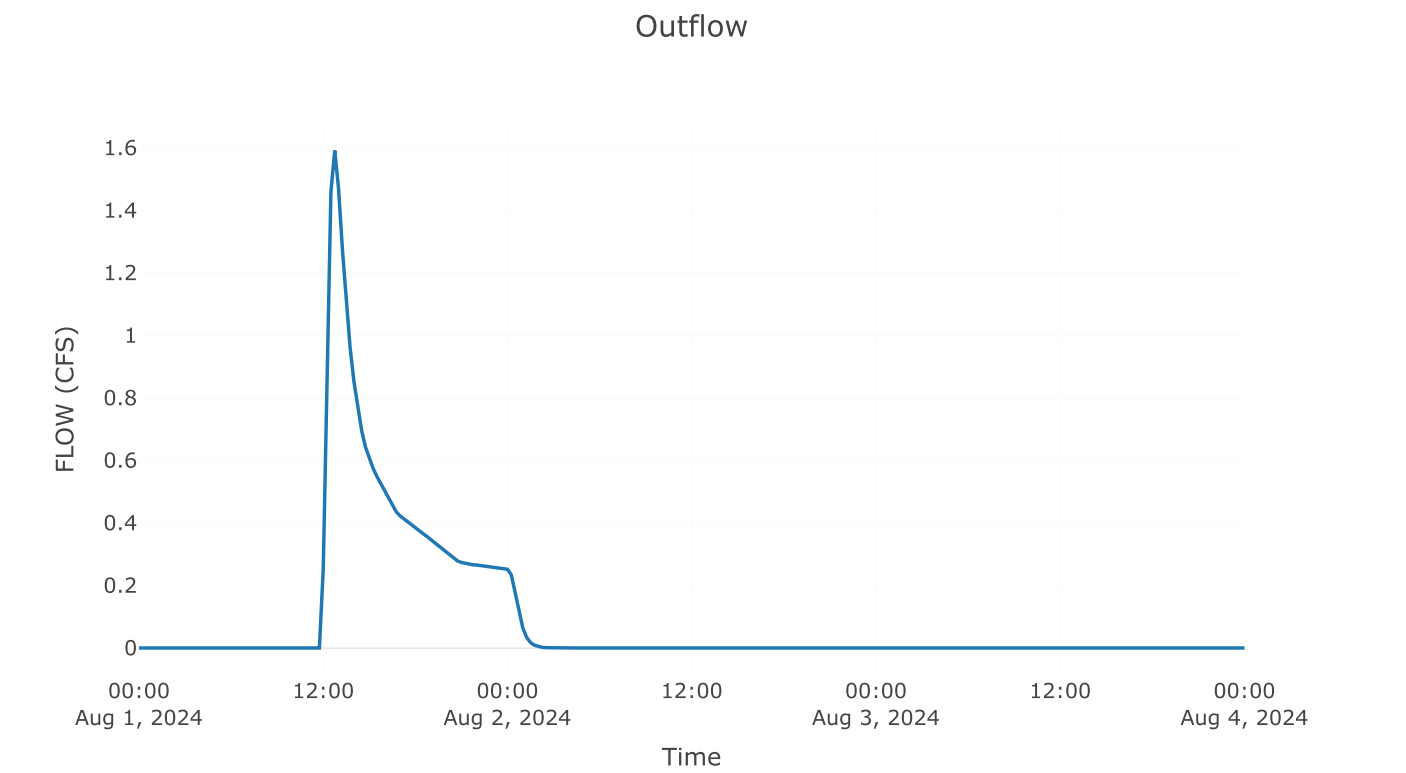


Reach: SW CHANNEL 1.5

Downstream : Sw junction 5

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.5	
Peak Discharge (CFS)	1.59
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	1.6
Inflow Volume (AC - FT)	0.53



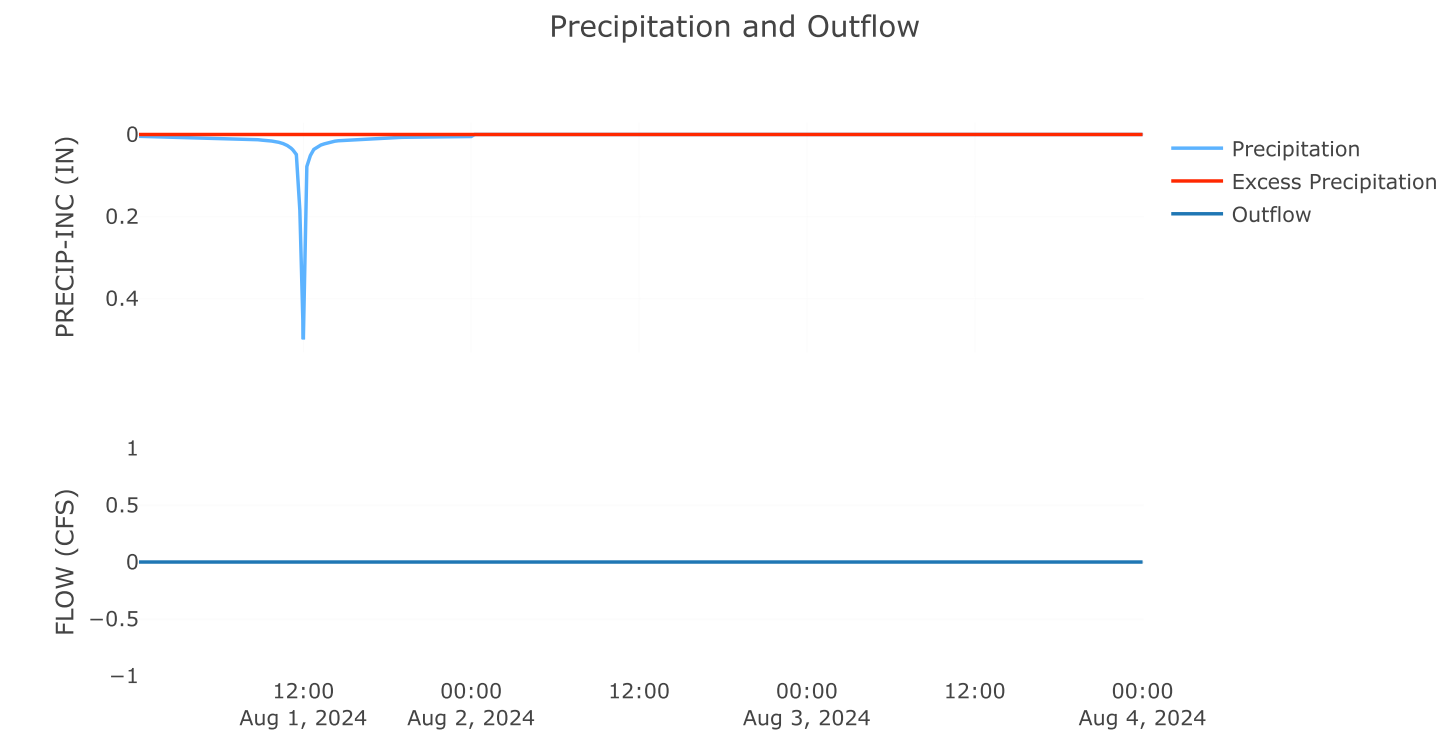
Subbasin: SW-6

Area (MI²) : 0.04
Downstream : Sw junction 5

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	51

Transform: SCS	
Lag	7.4
Unitgraph Type	Standard

Results: SW-6	
Peak Discharge (CFS)	0
Time of Peak Discharge	31Jul2024, 24:00
Volume (IN)	0
Precipitation Volume (AC - FT)	4.29
Loss Volume (AC - FT)	4.29
Excess Volume (AC - FT)	0
Direct Runoff Volume (AC - FT)	0
Baseflow Volume (AC - FT)	0



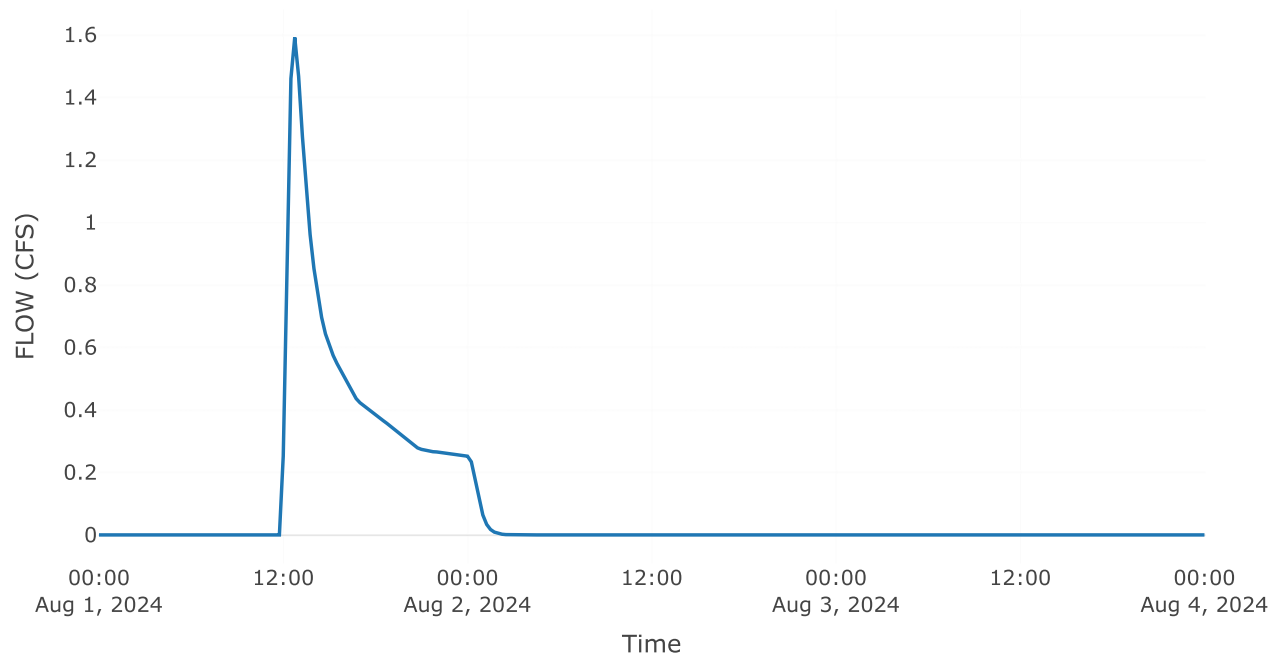
Junction: SW JUNCTION 5

Downstream : Sw channel 1.6

Results: SW JUNCTION 5

Peak Discharge (CFS)	1.59
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.1

Outflow

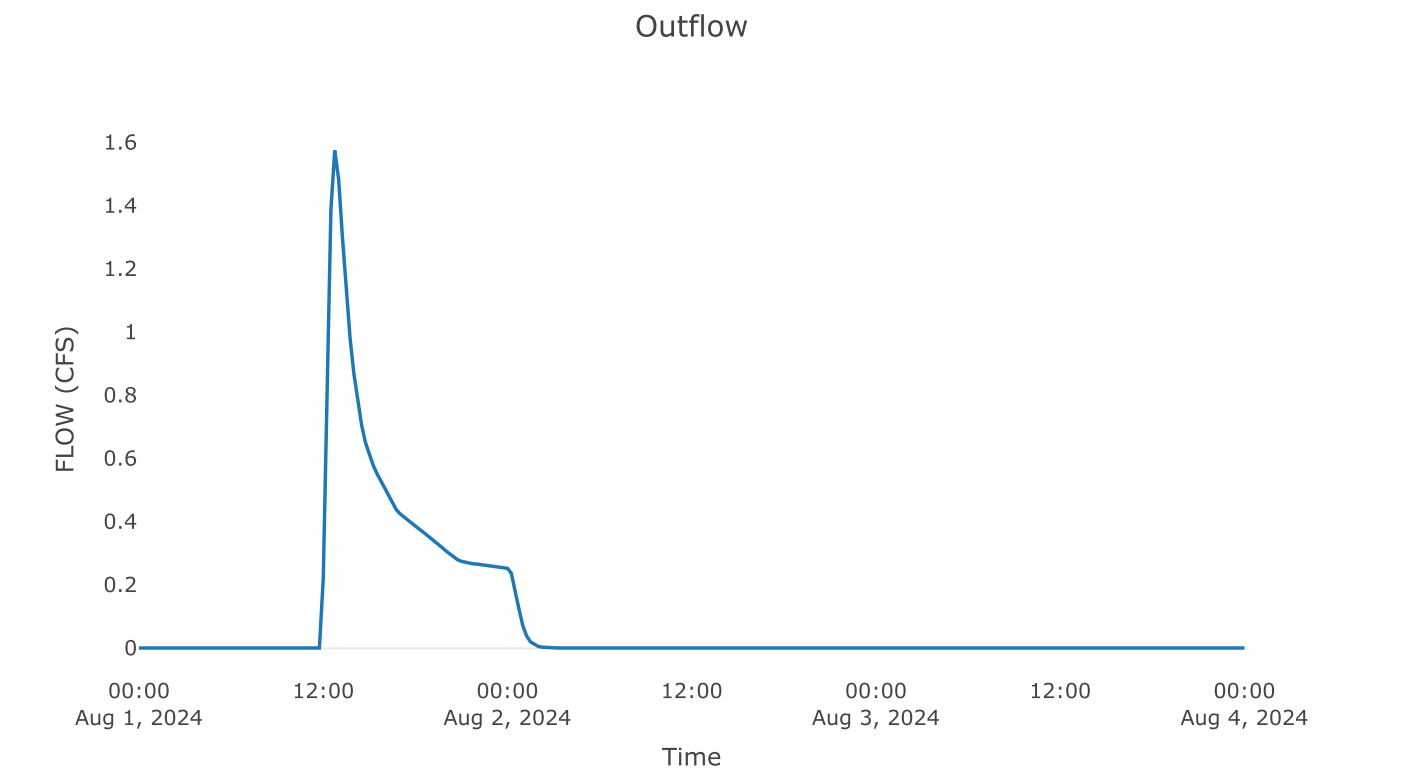


Reach: SW CHANNEL 1.6

Downstream : West channel 1 sink

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: SW CHANNEL 1.6	
Peak Discharge (CFS)	1.57
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.1
Peak Inflow (CFS)	1.59
Inflow Volume (AC - FT)	0.53



Subbasin: SE-1

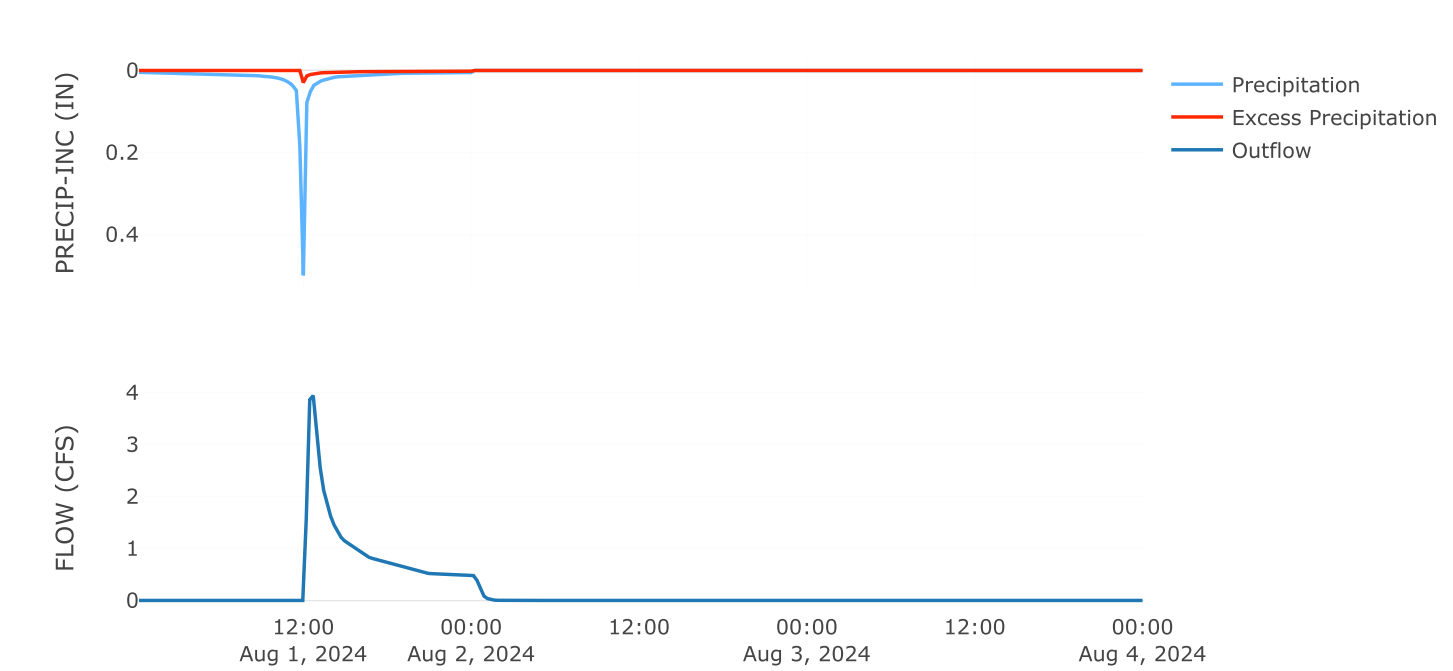
Area (MI²) : 0.11
Downstream : Se pond

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70.7

Transform: SCS	
Lag	21.7
Unitgraph Type	Standard

Results: SE-1	
Peak Discharge (CFS)	3.94
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.18
Precipitation Volume (AC - FT)	10.28
Loss Volume (AC - FT)	9.23
Excess Volume (AC - FT)	1.05
Direct Runoff Volume (AC - FT)	1.05
Baseflow Volume (AC - FT)	0

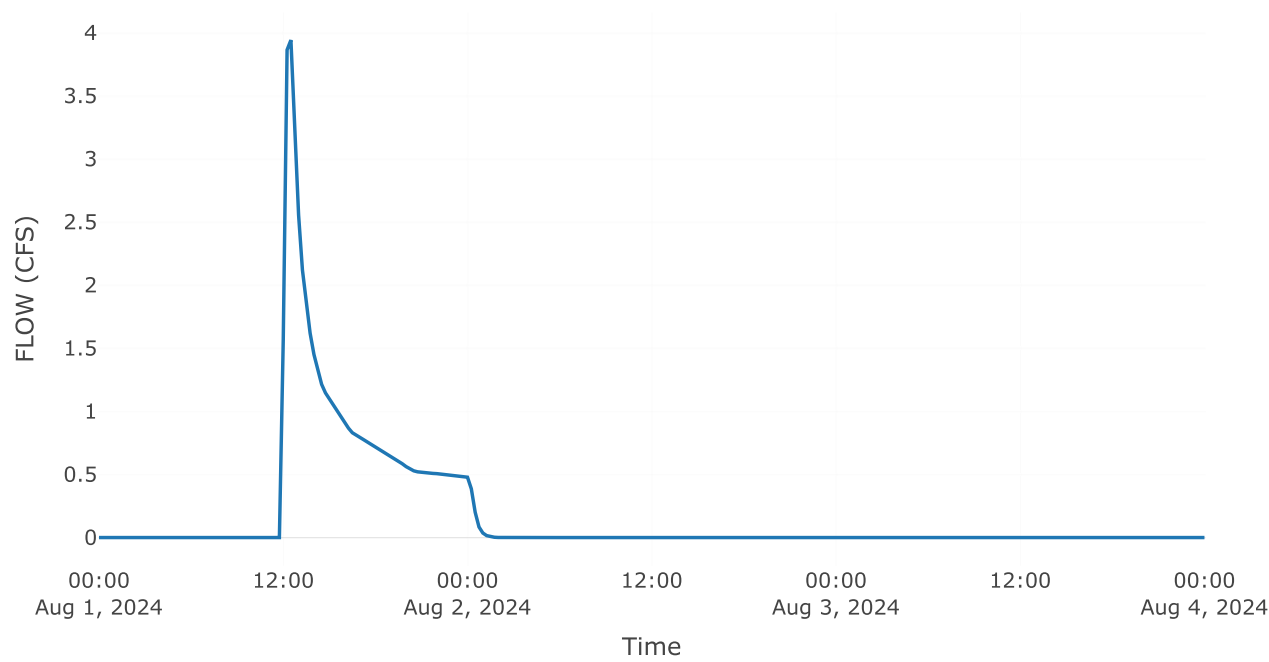
Precipitation and Outflow



Reservoir: SE POND

Results: SE POND	
Peak Discharge (CFS)	3.94
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.18
Peak Inflow (CFS)	3.94
Time of Peak Inflow	01Aug2024, 12:30
Inflow Volume (AC - FT)	1.05
Discharge Volume (AC - FT)	1.05

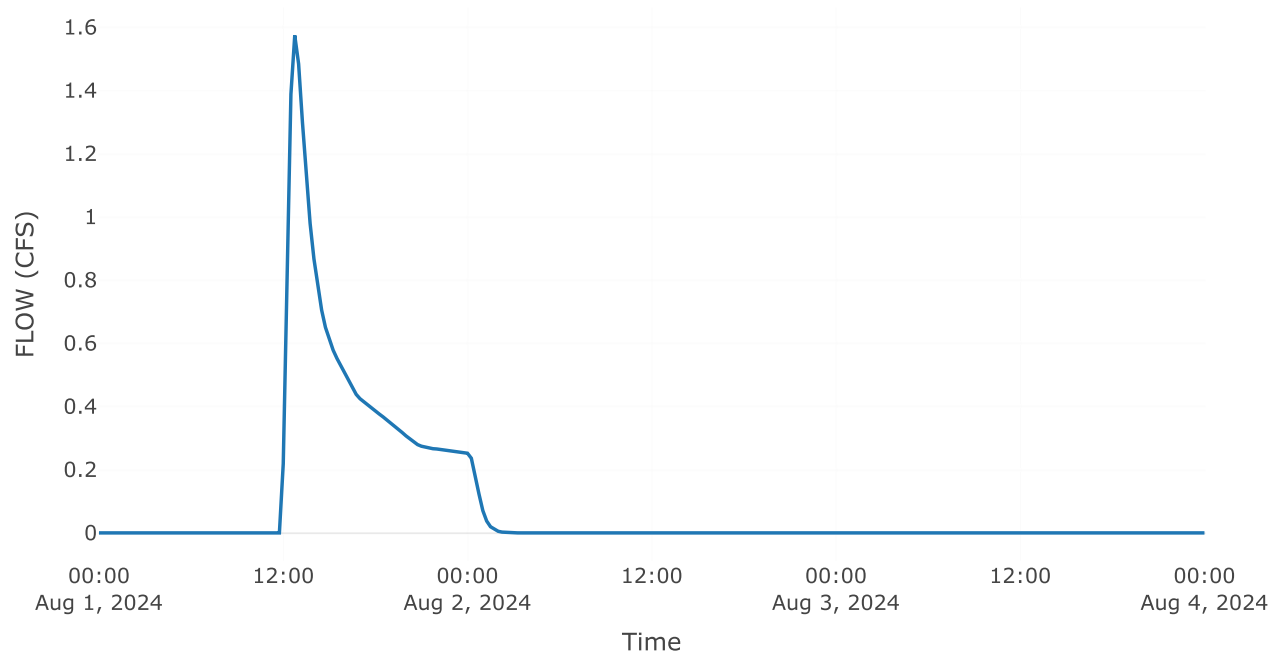
Outflow



Sink: WEST CHANNEL 1 SINK

Results: WEST CHANNEL 1 SINK	
Peak Discharge (CFS)	1.57
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.1

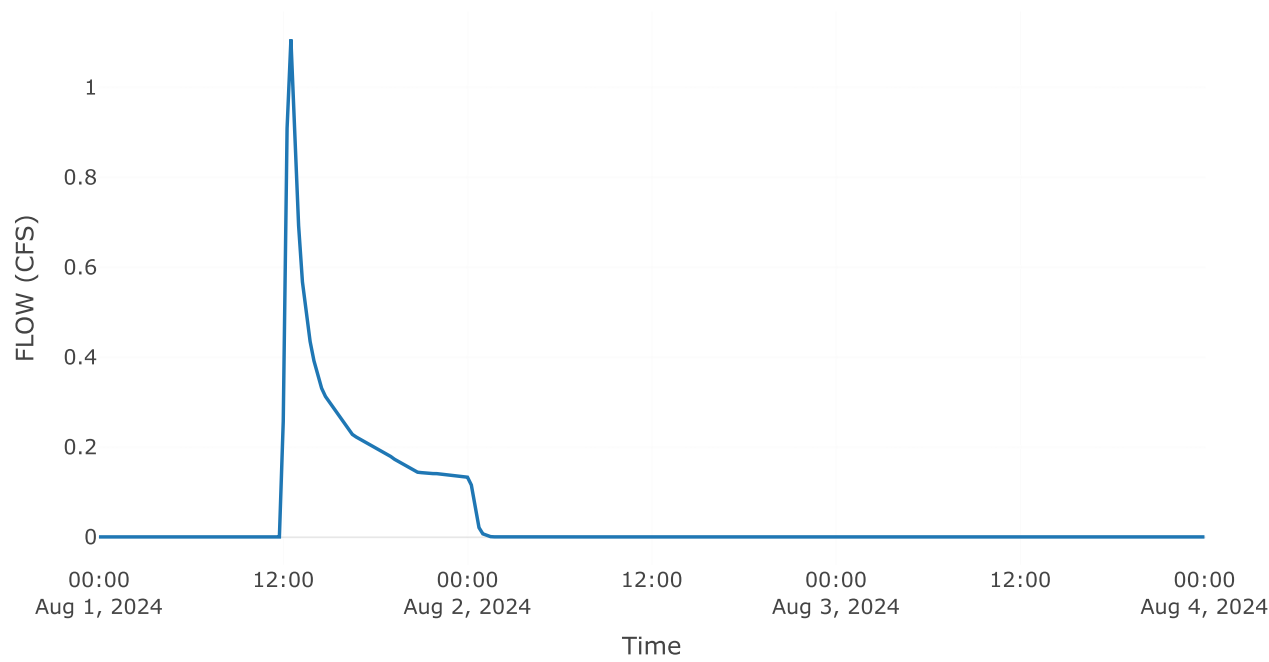
Outflow



Sink: EAST POND

Results: EAST POND	
Peak Discharge (CFS)	1.11
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

Outflow



Subbasin: N-1

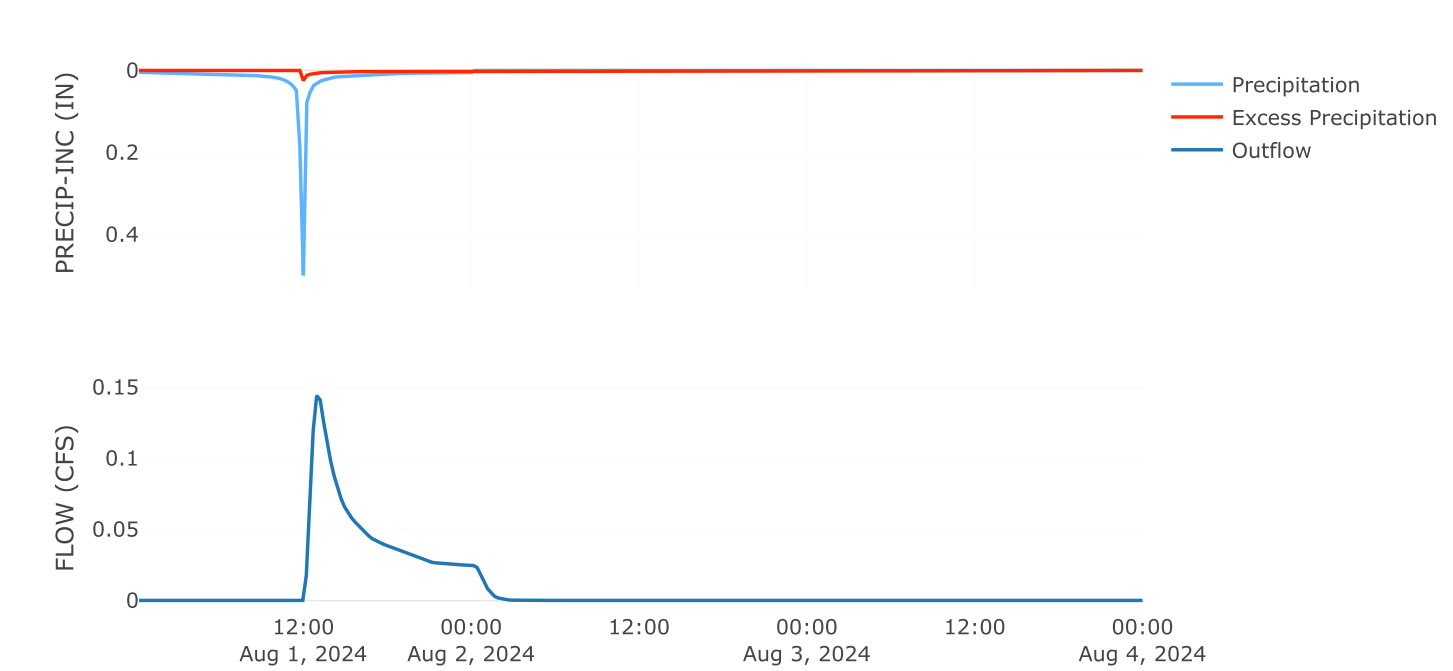
Area (MI²) : 0.01
Downstream : Downchute 6

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	40.5
Unitgraph Type	Standard

Results: N-1	
Peak Discharge (CFS)	0.14
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.55
Loss Volume (AC - FT)	0.5
Excess Volume (AC - FT)	0.05
Direct Runoff Volume (AC - FT)	0.05
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



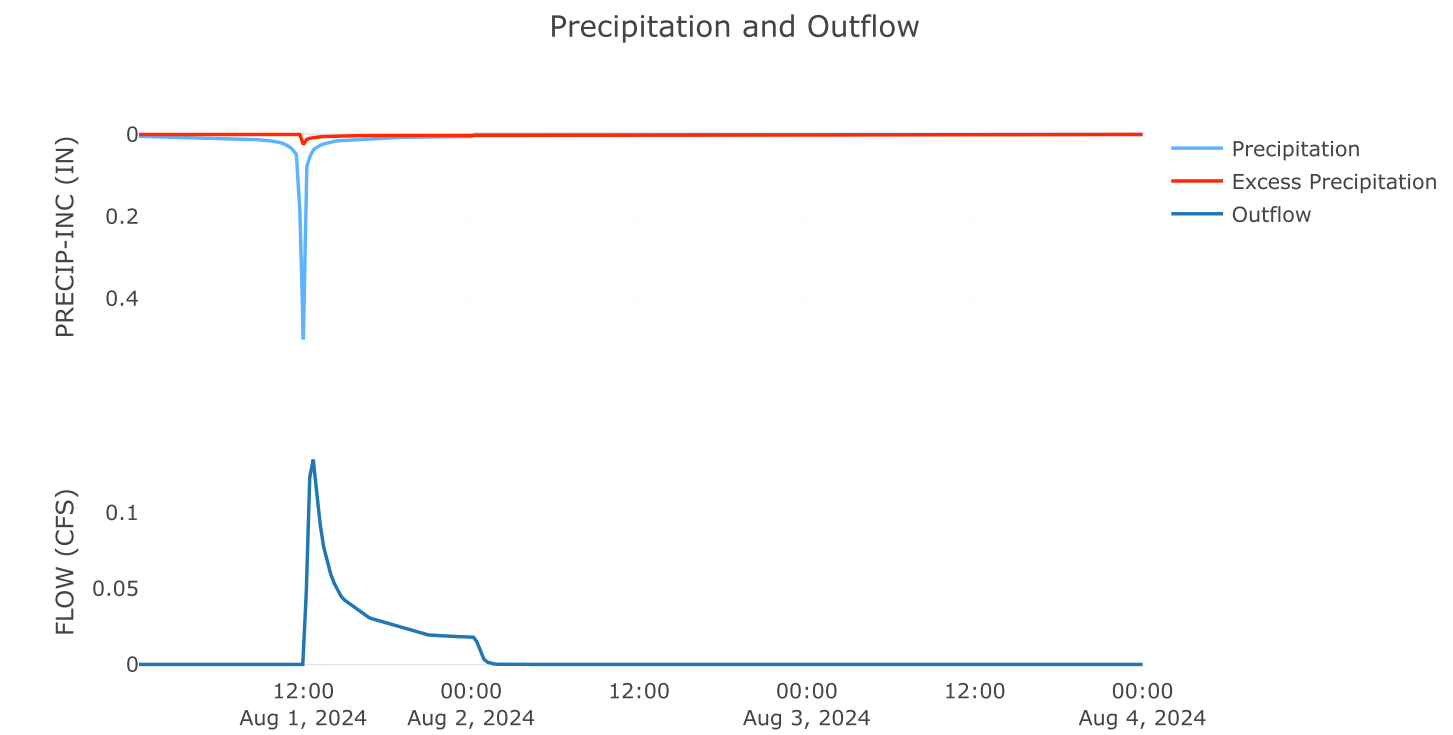
Subbasin: N-2

Area (MI²) : 0
Downstream : Downchute 6

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	22.5
Unitgraph Type	Standard

Results: N-2	
Peak Discharge (CFS)	0.13
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.4
Loss Volume (AC - FT)	0.37
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0

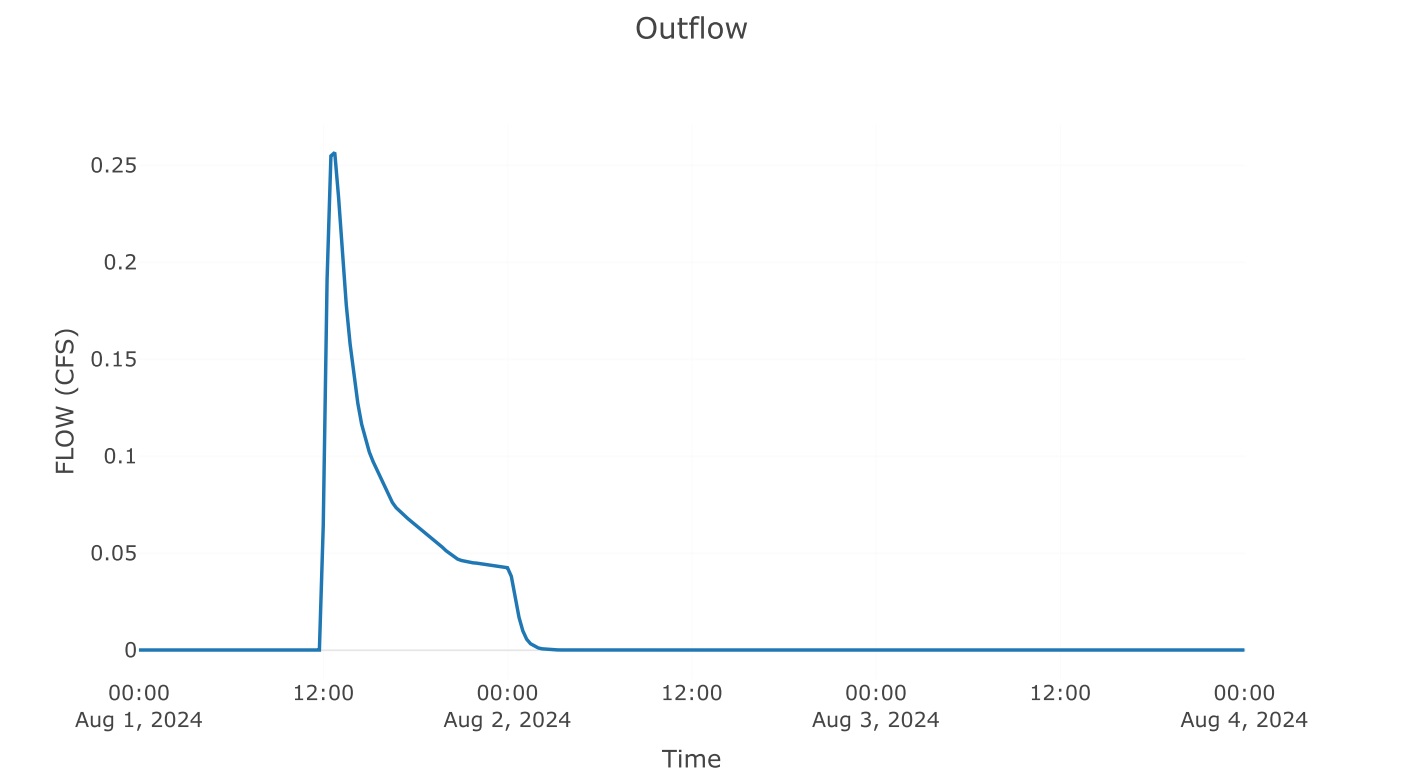


Reach: DOWNCHUTE 6

Downstream : N channel start

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 6	
Peak Discharge (CFS)	0.26
Time of Peak Discharge	01Aug2024, 12:45
Volume (IN)	0.17
Peak Inflow (CFS)	0.26
Inflow Volume (AC - FT)	0.09



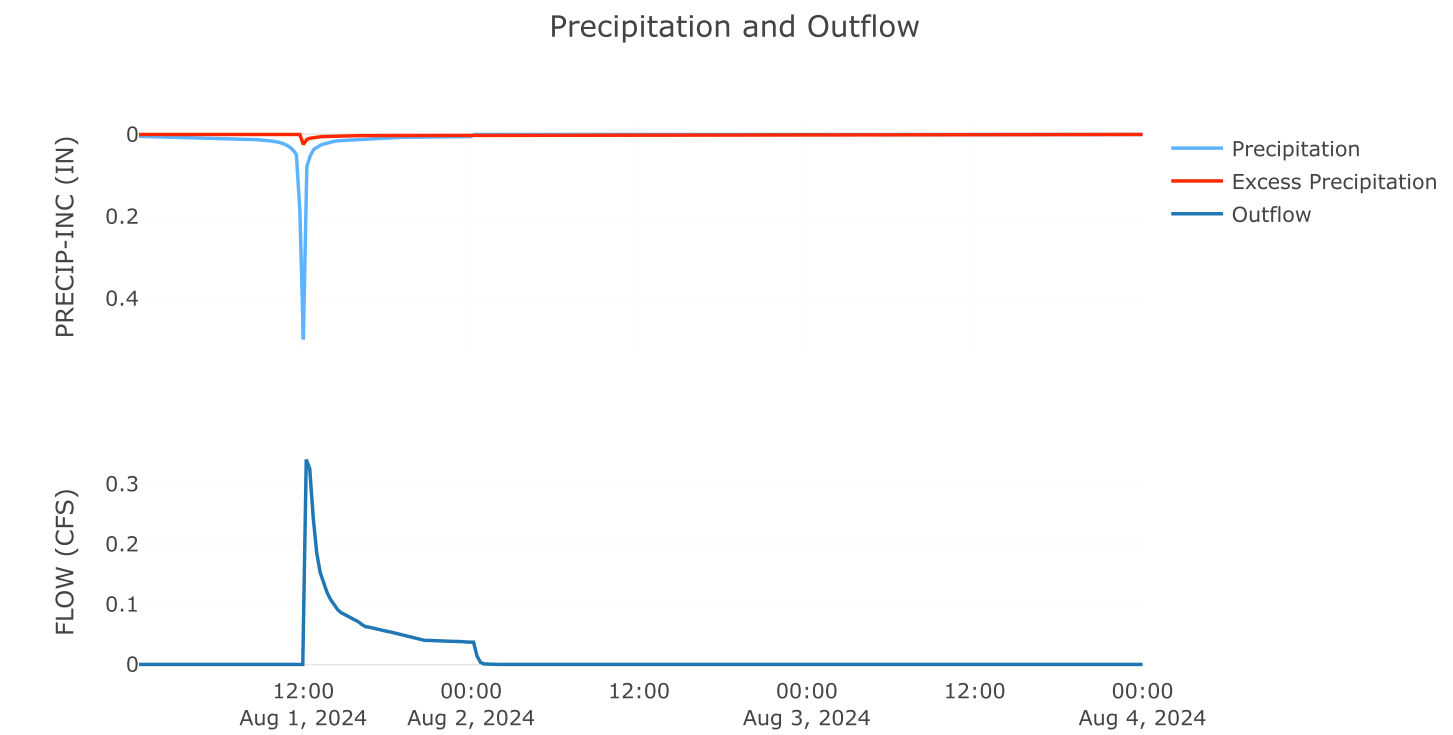
Subbasin: N-9

Area (MI²) : 0.01
Downstream : N channel start

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	10
Unitgraph Type	Standard

Results: N-9	
Peak Discharge (CFS)	0.34
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.84
Loss Volume (AC - FT)	0.76
Excess Volume (AC - FT)	0.08
Direct Runoff Volume (AC - FT)	0.08
Baseflow Volume (AC - FT)	0



Subbasin: N-3

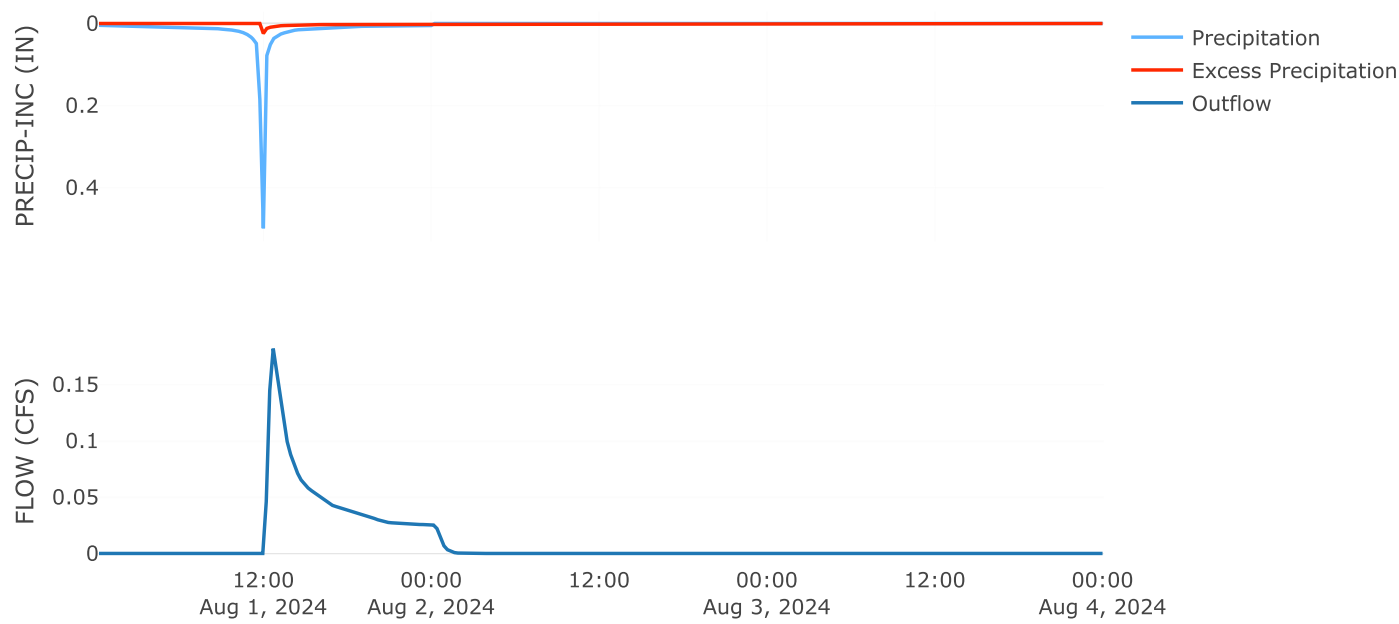
Area (MI²) : 0.01
Downstream : N channel start

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	26.5
Unitgraph Type	Standard

Results: N-3	
Peak Discharge (CFS)	0.18
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.57
Loss Volume (AC - FT)	0.51
Excess Volume (AC - FT)	0.05
Direct Runoff Volume (AC - FT)	0.05
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



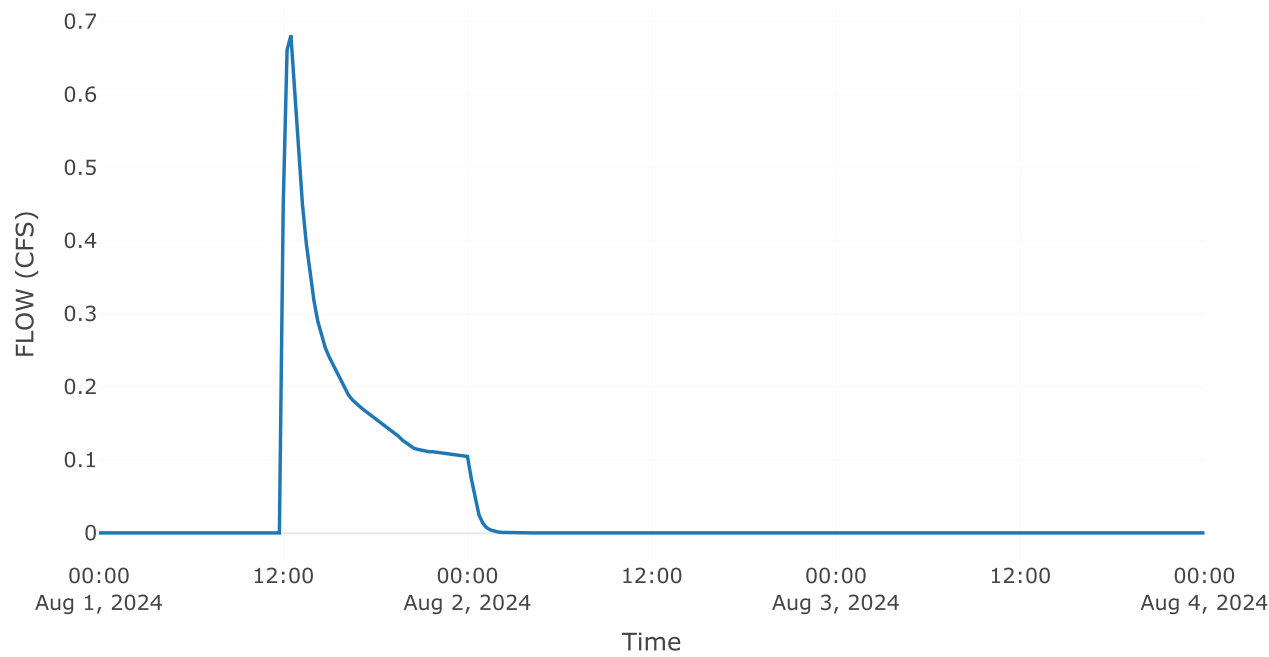
Junction: N CHANNEL START

Downstream : N channel 1.1

Results: N CHANNEL START

Peak Discharge (CFS)	0.68
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

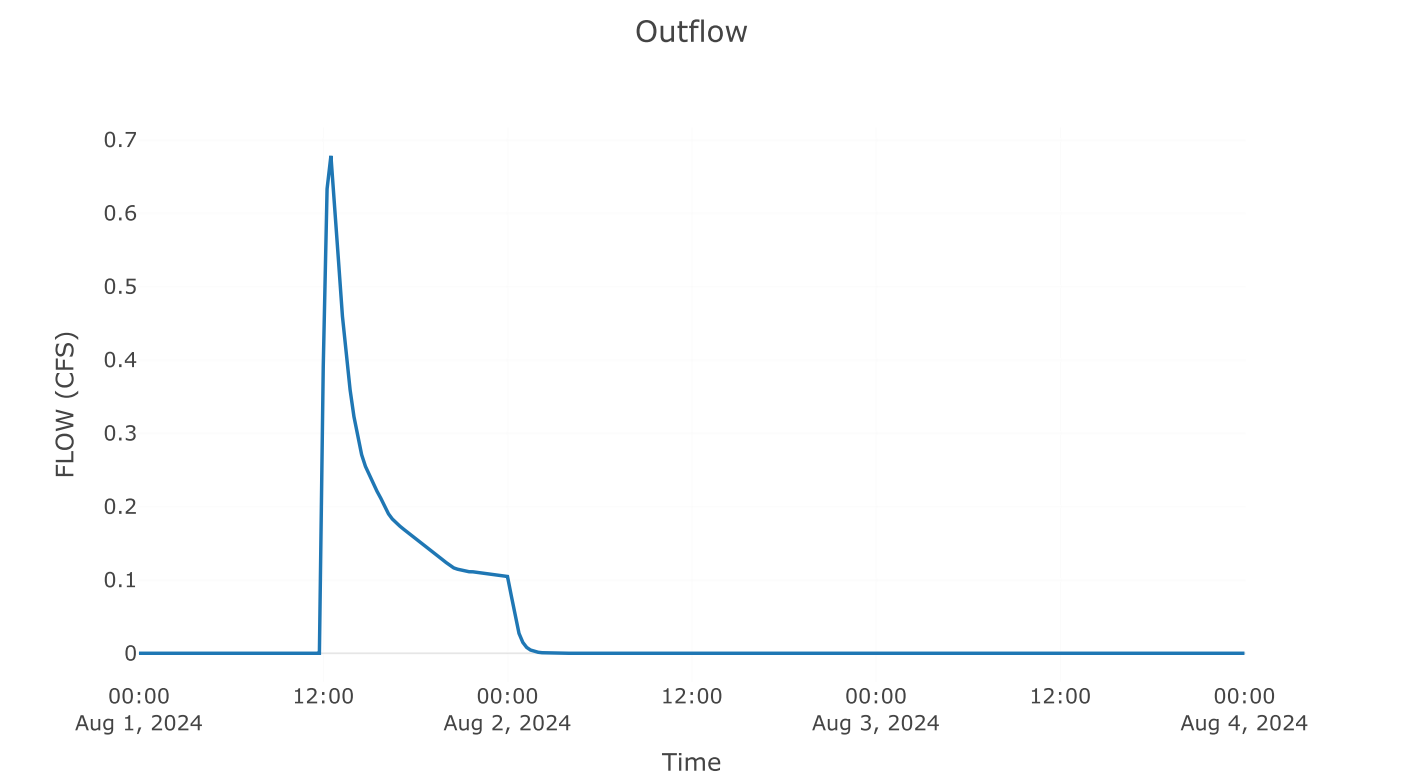
Outflow



Reach: N CHANNEL 1.1

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.1	
Peak Discharge (CFS)	0.68
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	0.68
Inflow Volume (AC - FT)	0.22



Subbasin: N-4

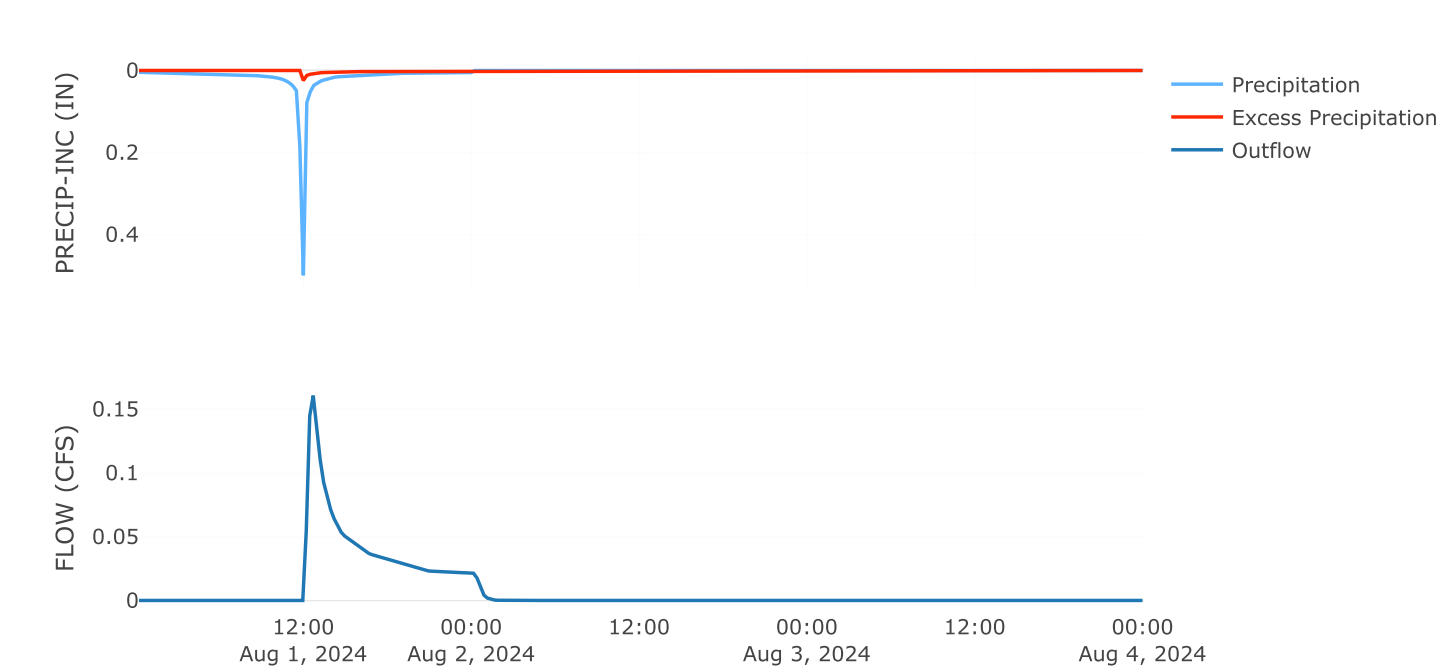
Area (MI²) : 0.01
Downstream : N junction I

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	22.8
Unitgraph Type	Standard

Results: N-4	
Peak Discharge (CFS)	0.16
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.48
Loss Volume (AC - FT)	0.43
Excess Volume (AC - FT)	0.05
Direct Runoff Volume (AC - FT)	0.05
Baseflow Volume (AC - FT)	0

Precipitation and Outflow

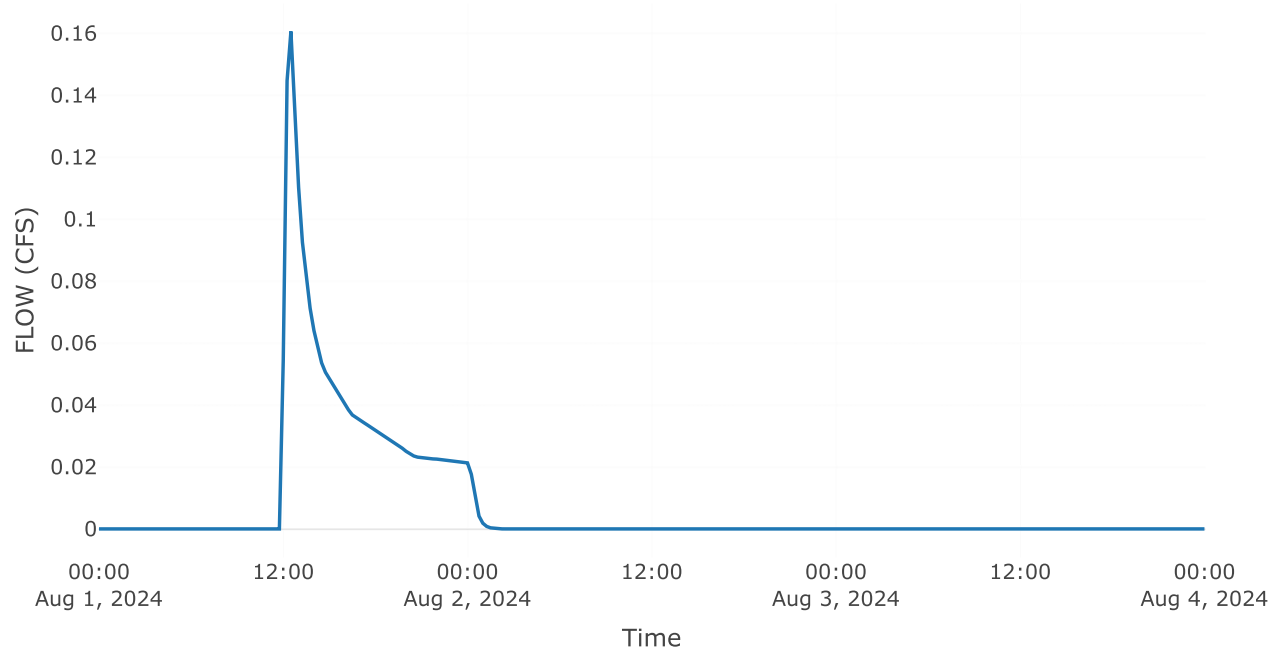


Junction: N JUNCTION 1

Downstream : N channel 1.2

Results: N JUNCTION 1	
Peak Discharge (CFS)	0.16
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

Outflow



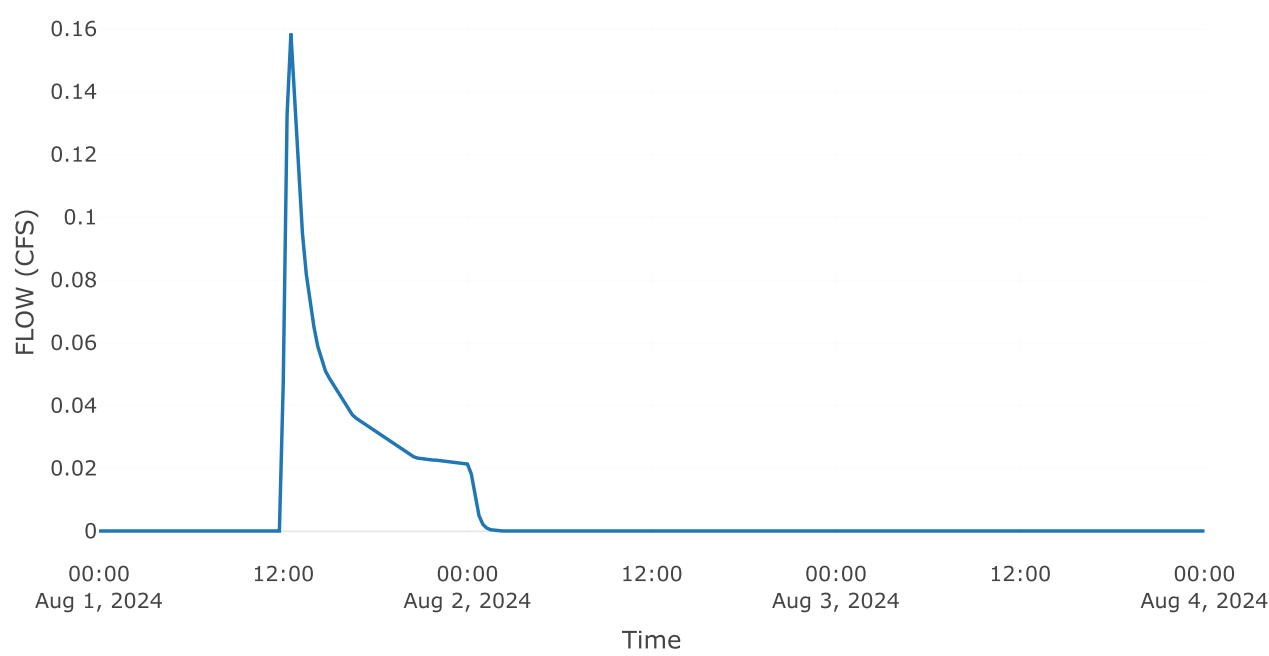
Reach: N CHANNEL 1.2

Downstream : N junction 2

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	2.4

Results: N CHANNEL 1.2	
Peak Discharge (CFS)	0.16
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17
Peak Inflow (CFS)	0.16
Inflow Volume (AC - FT)	0.05

Outflow



Subbasin: N-5

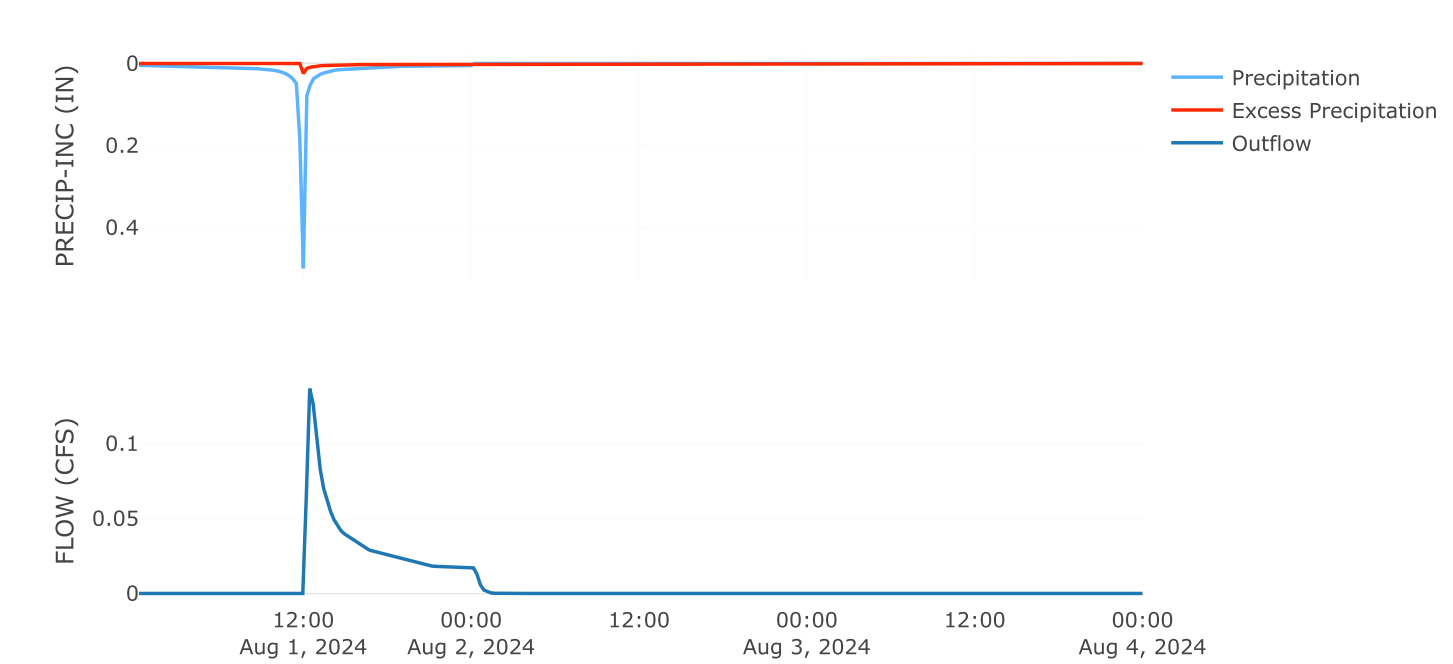
Area (MI²) : 0
Downstream : N junction 2

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	19.1
Unitgraph Type	Standard

Results: N-5	
Peak Discharge (CFS)	0.14
Time of Peak Discharge	01Aug2024, 12:15
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.38
Loss Volume (AC - FT)	0.35
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0

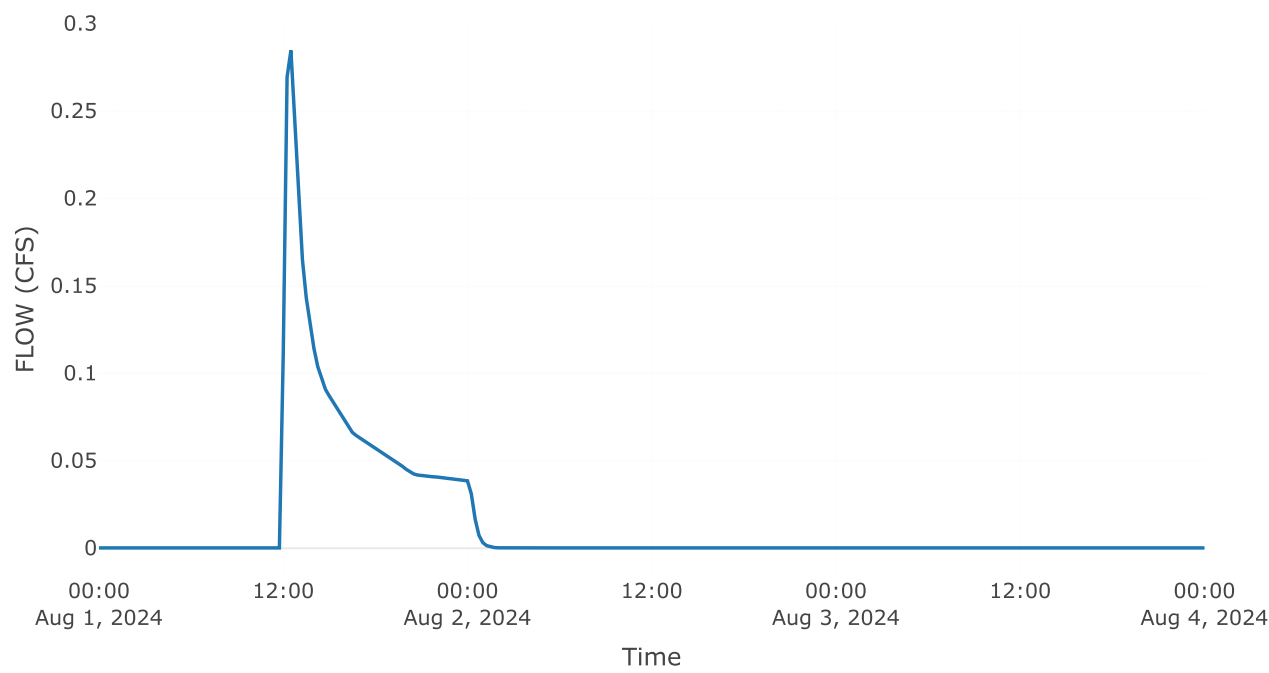
Precipitation and Outflow



Junction: N JUNCTION 2

Results: N JUNCTION 2	
Peak Discharge (CFS)	0.28
Time of Peak Discharge	01Aug2024, 12:30
Volume (IN)	0.17

Outflow



Subbasin: NW-16

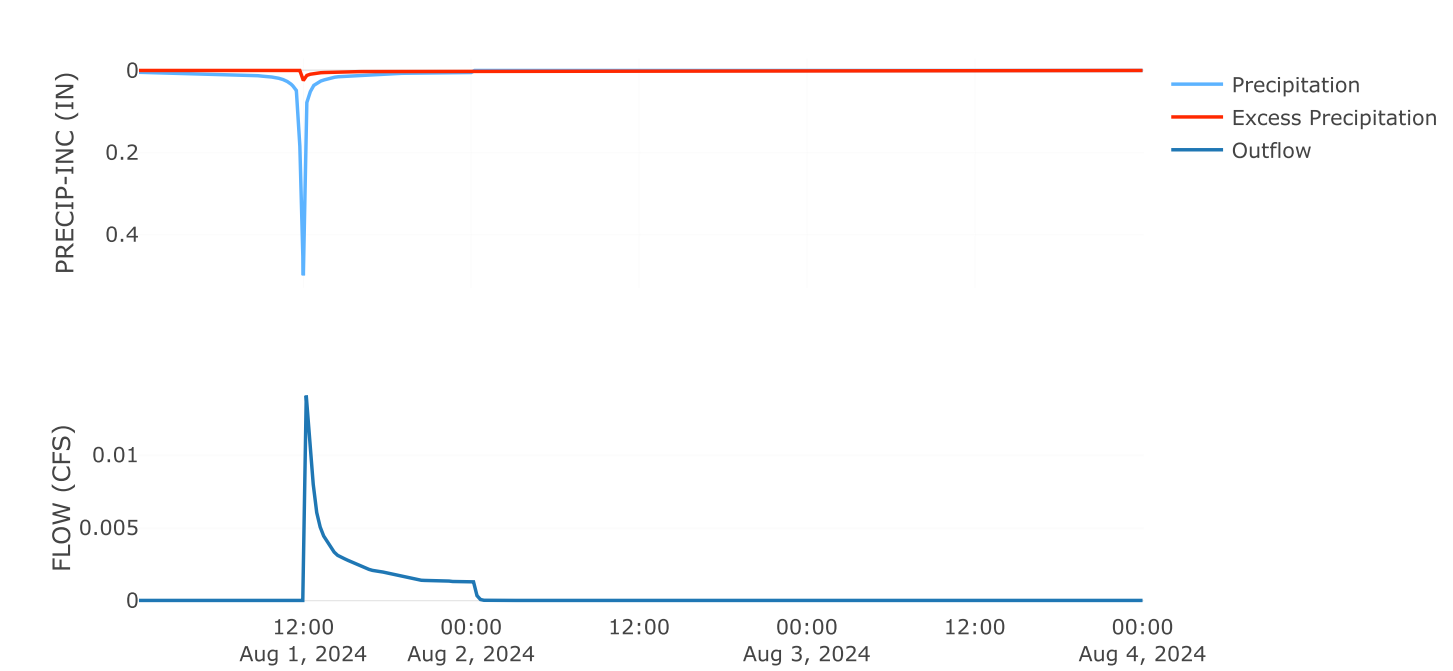
Area (MI²) : 0
Downstream : Downchute 3.1

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	4.5
Unitgraph Type	Standard

Results: NW-16	
Peak Discharge (CFS)	0.01
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.03
Loss Volume (AC - FT)	0.03
Excess Volume (AC - FT)	0
Direct Runoff Volume (AC - FT)	0
Baseflow Volume (AC - FT)	0

Precipitation and Outflow



Subbasin: SW-7

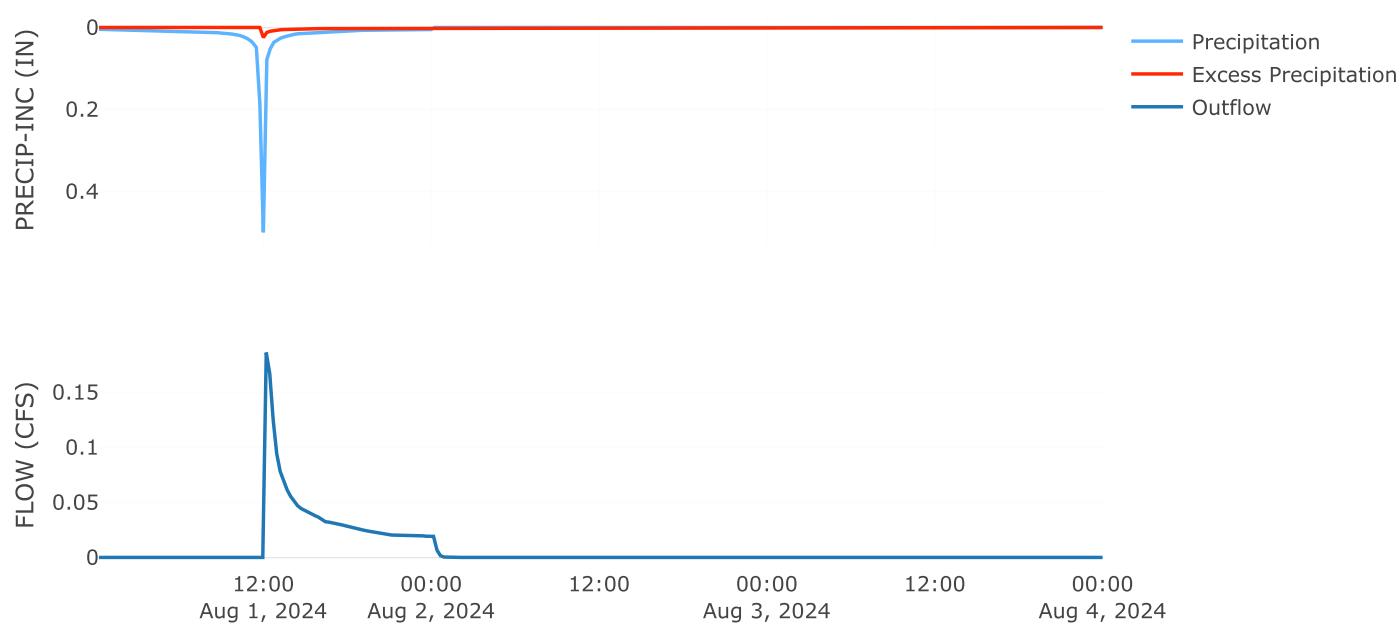
Area (MI²) : 0

Loss Rate: SCS	
Percent Impervious Area	0
Curve Number	70

Transform: SCS	
Lag	9.3
Unitgraph Type	Standard

Results: SW-7	
Peak Discharge (CFS)	0.19
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Precipitation Volume (AC - FT)	0.43
Loss Volume (AC - FT)	0.39
Excess Volume (AC - FT)	0.04
Direct Runoff Volume (AC - FT)	0.04
Baseflow Volume (AC - FT)	0

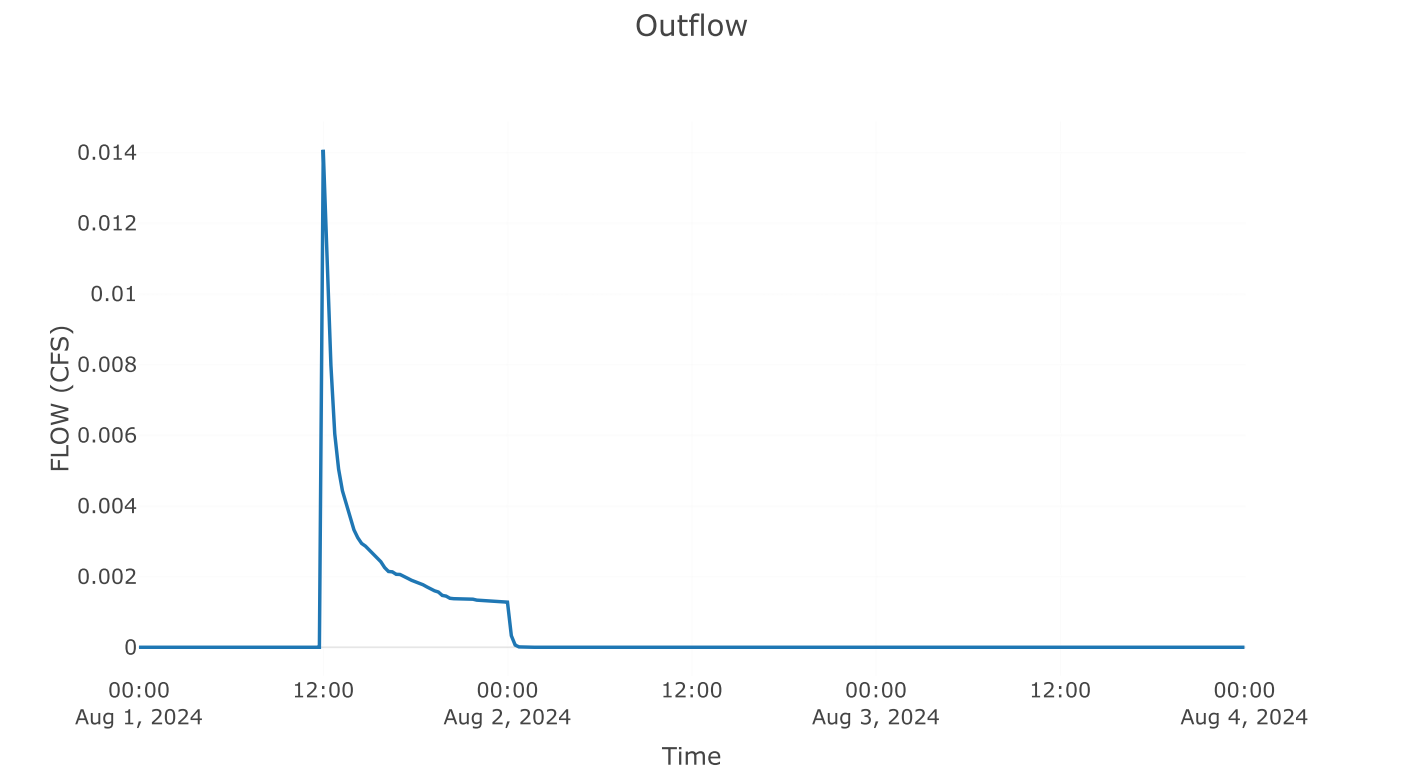
Precipitation and Outflow



Reach: DOWNCHUTE 3.1

Route: Lag	
Method	Lag
Initial Variable	Combined Inflow
Lag	0.5

Results: DOWNCHUTE 3.1	
Peak Discharge (CFS)	0.01
Time of Peak Discharge	01Aug2024, 12:00
Volume (IN)	0.17
Peak Inflow (CFS)	0.01
Inflow Volume (AC - FT)	0



HY-8 Culvert Analysis Report

Pickles Butte Landfill Phase 5 Expansion

Table 1 - Summary of Culvert Flows at Crossing: East Channel Culvert

Headwater Elevation (ft)	Total Discharge (cfs)	East Channel Culvert Discharge (cfs)	Roadway Discharge (cfs)	Iterations
2926.82	0.00	0.00	0.00	1
2927.05	0.12	0.12	0.00	1
2927.11	0.24	0.24	0.00	1
2927.18	0.36	0.36	0.00	1
2927.24	0.48	0.48	0.00	1
2927.29	0.60	0.60	0.00	1
2927.34	0.72	0.72	0.00	1
2927.39	0.84	0.84	0.00	1
2927.43	0.96	0.96	0.00	1
2927.48	1.08	1.08	0.00	1
2927.62	1.20	1.20	0.00	1
2929.00	3.99	3.99	0.00	Overtopping

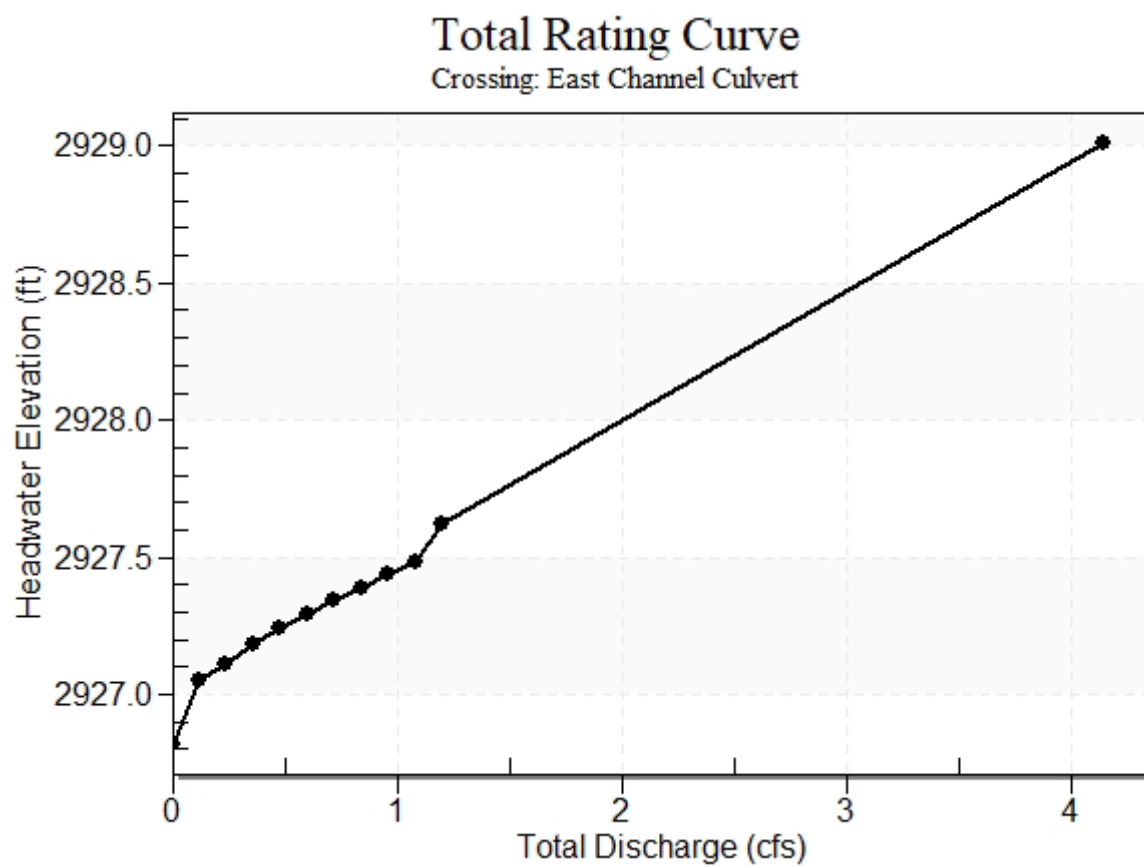
Rating Curve Plot for Crossing: East Channel Culvert

Table 2 - Culvert Summary Table: East Channel Culvert

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	2926.82	0.000	0.000	0-NF	0.000	0.000	0.000	0.000	0.000	0.000
0.12	0.12	2927.05	0.203	0.233	2-M2c	0.142	0.141	0.141	0.019	1.771	6.270
0.24	0.24	2927.11	0.291	0.0*	1-S2n	0.200	0.201	0.200	0.029	2.145	8.227
0.36	0.36	2927.18	0.359	0.0*	1-S2n	0.245	0.248	0.245	0.037	2.414	9.608
0.48	0.48	2927.24	0.418	0.0*	1-S2n	0.284	0.287	0.284	0.045	2.620	10.729
0.60	0.60	2927.29	0.471	0.0*	1-S2n	0.318	0.322	0.318	0.051	2.792	11.669
0.72	0.72	2927.34	0.521	0.0*	1-S2n	0.350	0.354	0.350	0.058	2.937	12.496
0.84	0.84	2927.39	0.569	0.019	1-S2n	0.380	0.383	0.380	0.063	3.064	13.236
0.96	0.96	2927.43	0.615	0.069	1-S2n	0.409	0.411	0.409	0.069	3.176	13.900
1.08	1.08	2927.48	0.660	0.121	1-S2n	0.437	0.437	0.437	0.074	3.277	14.510
1.20	1.20	2927.62	0.703	0.799	2-M2c	0.464	0.462	0.462	0.080	3.384	15.083

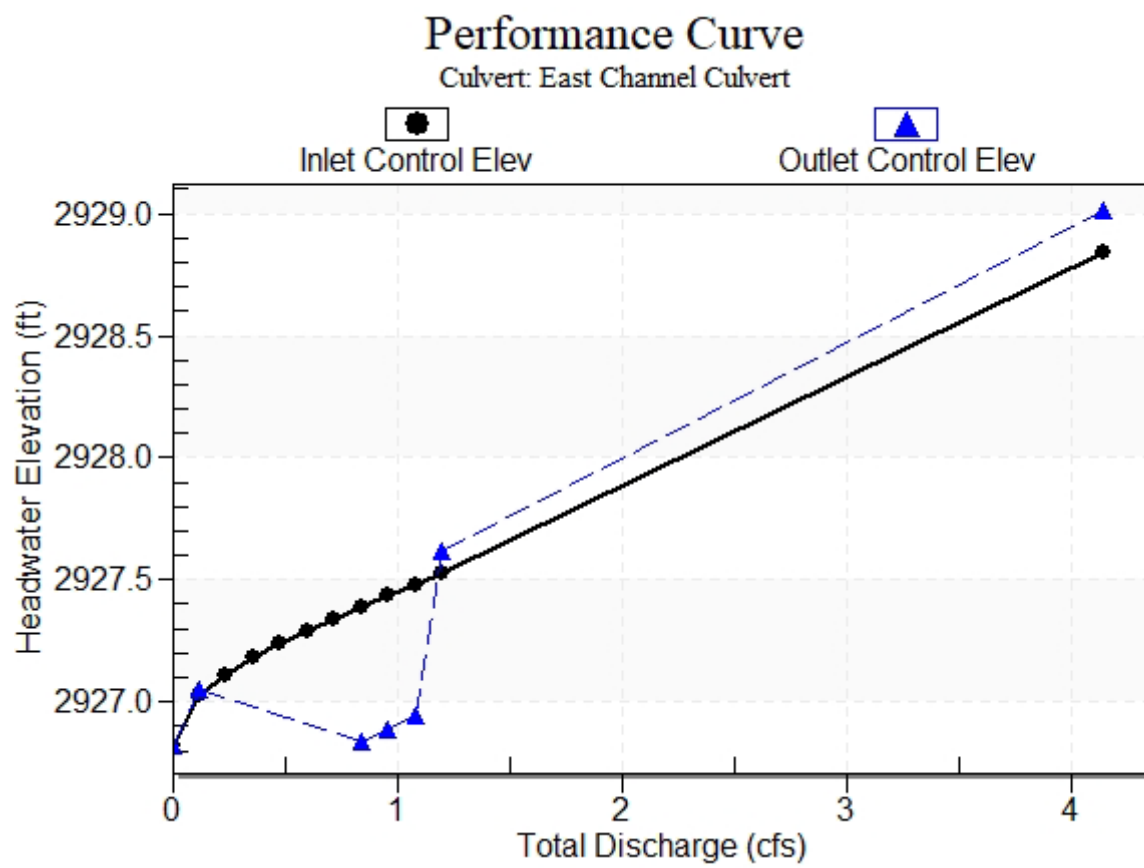
* Full Flow Headwater elevation is below inlet invert.

Straight Culvert

Inlet Elevation (invert): 2926.82 ft, Outlet Elevation (invert): 2926.38 ft

Culvert Length: 22.00 ft, Culvert Slope: 0.0200

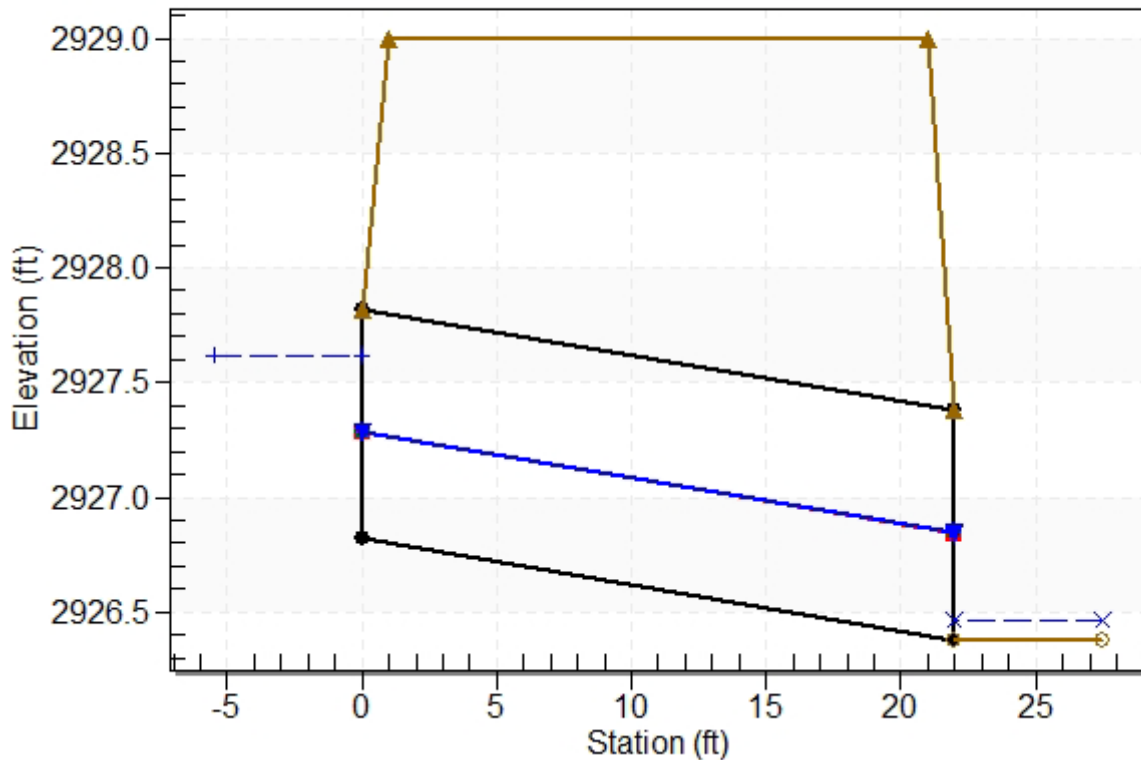
Culvert Performance Curve Plot: East Channel Culvert



Water Surface Profile Plot for Culvert: East Channel Culvert

Crossing - East Channel Culvert, Design Discharge - 1.2 cfs

Culvert - East Channel Culvert, Culvert Discharge - 1.2 cfs



Site Data - East Channel Culvert

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 2926.82 ft

Outlet Station: 22.00 ft

Outlet Elevation: 2926.38 ft

Number of Barrels: 1

Culvert Data Summary - East Channel Culvert

Barrel Shape: Circular

Barrel Diameter: 1.00 ft

Barrel Material: Corrugated Steel

Embedment: 0.00 in

Barrel Manning's n: 0.0240

Culvert Type: Straight

Inlet Configuration: Thin Edge Projecting

Inlet Depression: None

Table 3 - Downstream Channel Rating Curve (Crossing: East Channel Culvert)

Flow (cfs)	Water Surface Elev (ft)	Depth (ft)	Velocity (ft/s)	Shear (psf)	Froude Number
0.00	2926.38	0.00	0.00	0.00	0.00
0.12	2926.40	0.02	6.27	5.37	7.99
0.24	2926.41	0.03	8.23	8.19	8.49
0.36	2926.42	0.04	9.61	10.52	8.75
0.48	2926.42	0.04	10.73	12.56	8.94
0.60	2926.43	0.05	11.67	14.44	9.07
0.72	2926.44	0.06	12.50	16.18	9.17
0.84	2926.44	0.06	13.24	17.82	9.26
0.96	2926.45	0.07	13.90	19.39	9.32
1.08	2926.45	0.07	14.51	20.90	9.37
1.20	2926.46	0.08	15.08	22.34	9.42

Tailwater Channel Data - East Channel Culvert

Tailwater Channel Option: Rectangular Channel

Bottom Width: 1.00 ft

Channel Slope: 4.5000

Channel Manning's n: 0.0350

Channel Invert Elevation: 2926.38 ft

Roadway Data for Crossing: East Channel Culvert

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 30.00 ft

Crest Elevation: 2929.00 ft

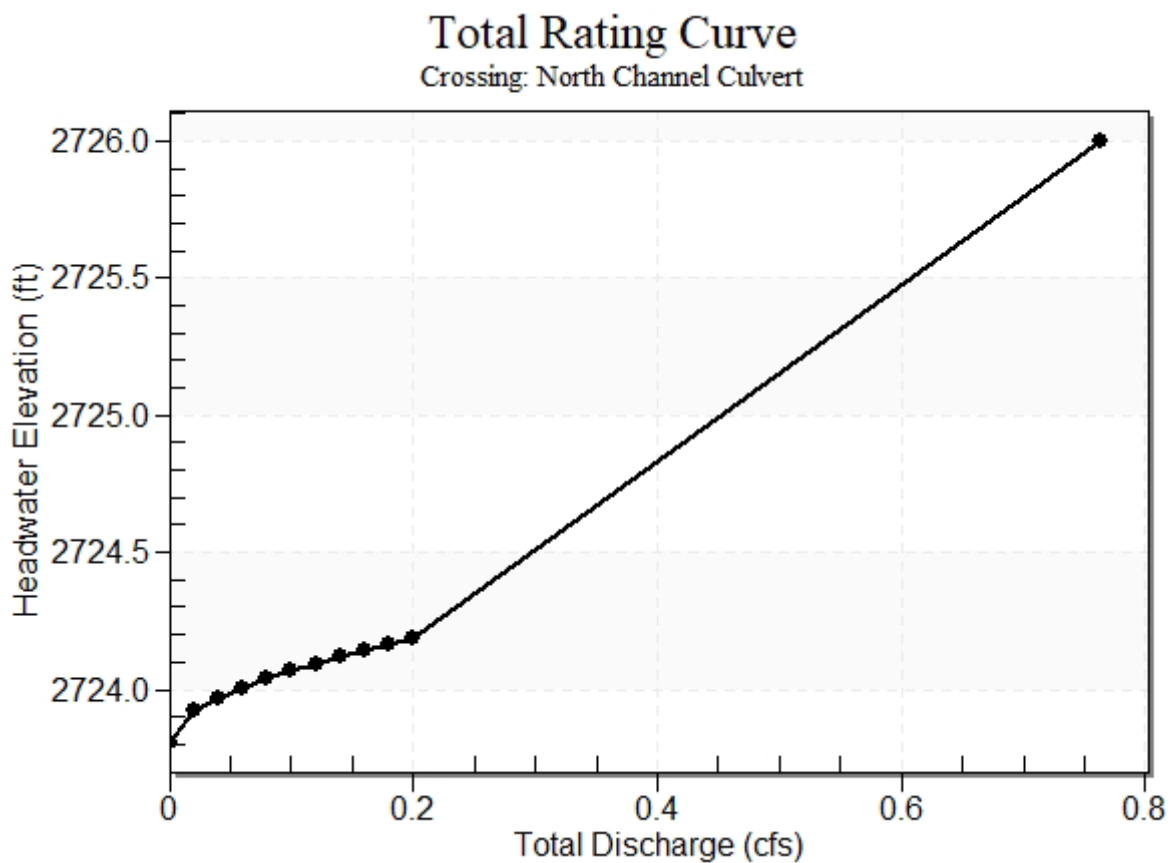
Roadway Surface: Gravel

Roadway Top Width: 20.00 ft

Table 4 - Summary of Culvert Flows at Crossing: North Channel Culvert

Headwater Elevation (ft)	Total Discharge (cfs)	North Channel Culvert Discharge (cfs)	Roadway Discharge (cfs)	Iterations
2723.81	0.00	0.00	0.00	1
2723.92	0.02	0.02	0.00	1
2723.97	0.04	0.04	0.00	1
2724.01	0.06	0.06	0.00	1
2724.04	0.08	0.08	0.00	1
2724.07	0.10	0.10	0.00	1
2724.09	0.12	0.12	0.00	1
2724.12	0.14	0.14	0.00	1
2724.14	0.16	0.16	0.00	1
2724.16	0.18	0.18	0.00	1
2724.18	0.20	0.20	0.00	1
2726.00	0.74	0.74	0.00	Overtopping

Rating Curve Plot for Crossing: North Channel Culvert



Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	2723.81	0.000	0.000	0-NF	0.000	0.000	0.000	0.000	0.000	0.000
0.02	0.02	2723.92	0.099	0.110	2-M2c	0.074	0.069	0.069	0.034	1.234	8.741
0.04	0.04	2723.97	0.141	0.158	2-M2c	0.104	0.098	0.098	0.044	1.482	10.395
0.06	0.06	2724.01	0.174	0.196	2-M2c	0.128	0.120	0.120	0.051	1.654	11.504
0.08	0.08	2724.04	0.203	0.228	2-M2c	0.148	0.139	0.139	0.057	1.792	12.362
0.10	0.10	2724.07	0.229	0.257	2-M2c	0.166	0.156	0.156	0.062	1.909	13.071
0.12	0.12	2724.09	0.252	0.284	2-M2c	0.183	0.172	0.172	0.066	2.012	13.680
0.14	0.14	2724.12	0.275	0.308	2-M2c	0.199	0.186	0.186	0.070	2.105	14.218
0.16	0.16	2724.14	0.297	0.331	2-M2c	0.214	0.199	0.199	0.074	2.192	14.700
0.18	0.18	2724.16	0.319	0.354	2-M2c	0.228	0.212	0.212	0.077	2.273	15.140
0.20	0.20	2724.18	0.339	0.375	2-M2c	0.243	0.224	0.224	0.080	2.349	15.544

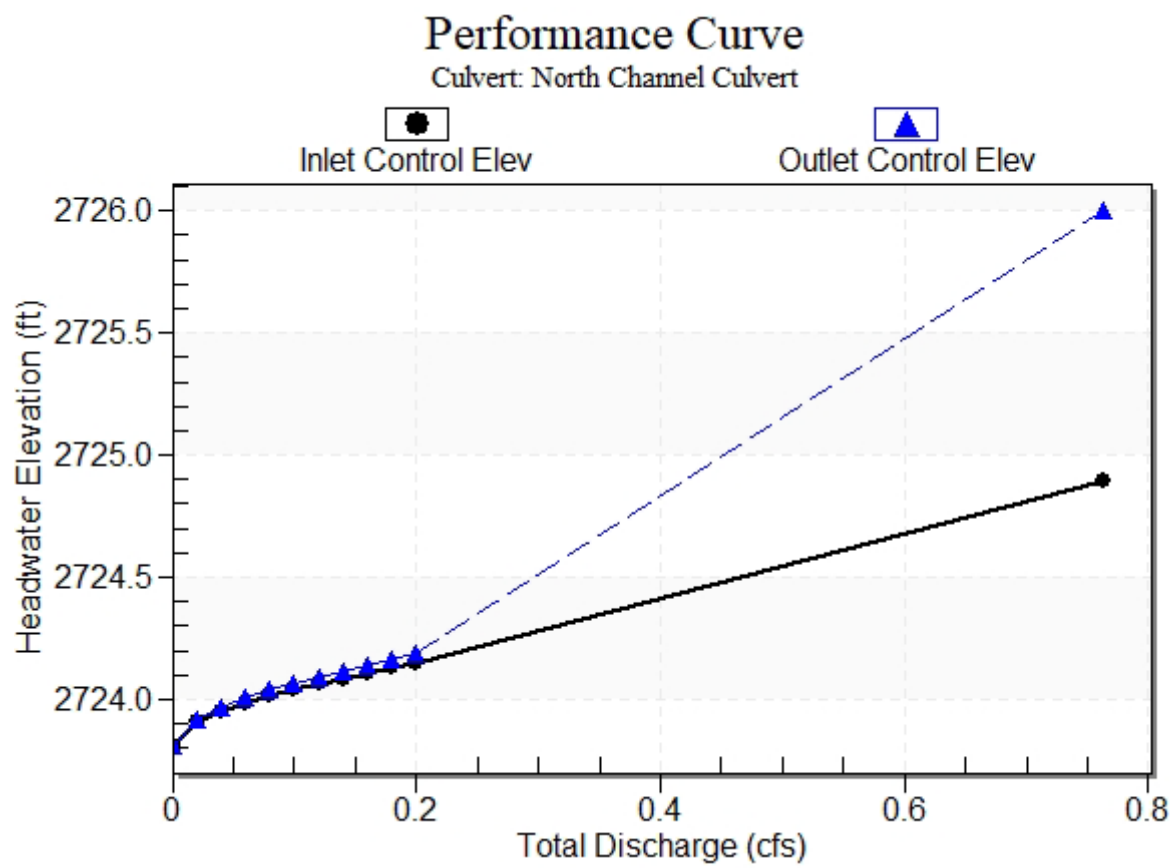
Table 5 - Culvert Summary Table: North Channel Culvert

Straight Culvert

Inlet Elevation (invert): 2723.81 ft, Outlet Elevation (invert): 2723.20 ft

Culvert Length: 32.01 ft, Culvert Slope: 0.0191

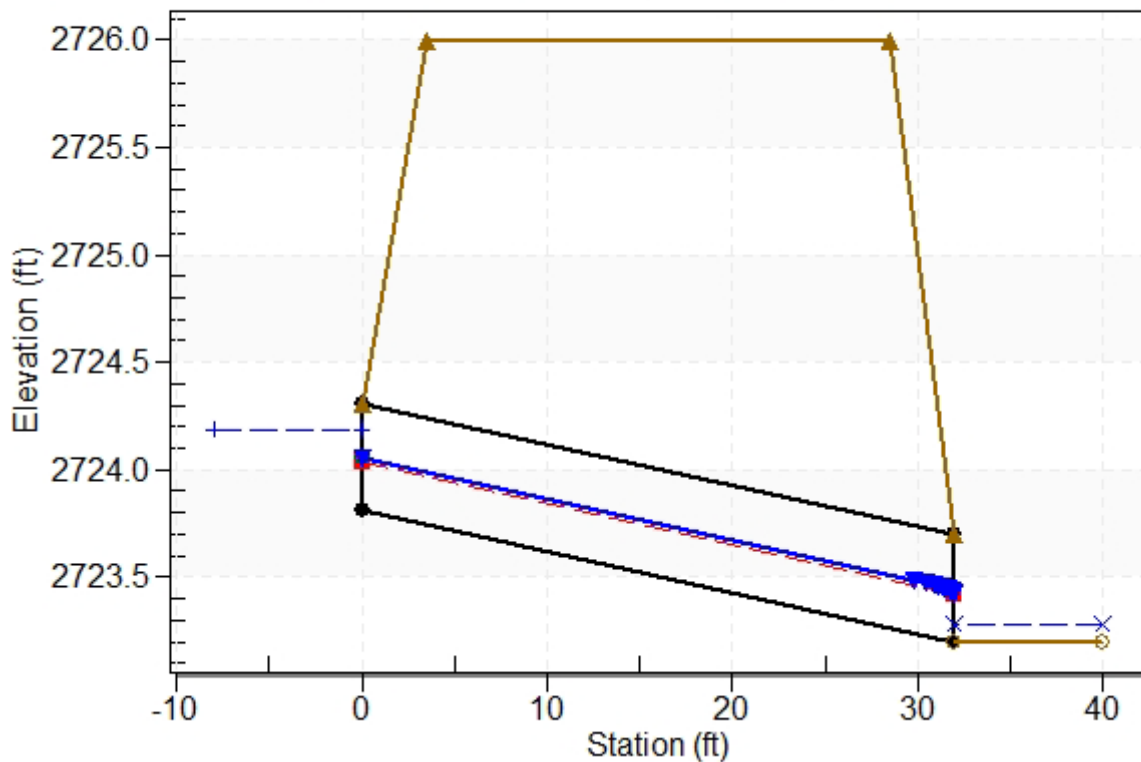
Culvert Performance Curve Plot: North Channel Culvert



Water Surface Profile Plot for Culvert: North Channel Culvert

Crossing - North Channel Culvert, Design Discharge - 0.2 cfs

Culvert - North Channel Culvert, Culvert Discharge - 0.2 cfs



Site Data - North Channel Culvert

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 2723.81 ft

Outlet Station: 32.00 ft

Outlet Elevation: 2723.20 ft

Number of Barrels: 1

Culvert Data Summary - North Channel Culvert

Barrel Shape: Circular

Barrel Diameter: 0.50 ft

Barrel Material: Corrugated Steel

Embedment: 0.00 in

Barrel Manning's n: 0.0240

Culvert Type: Straight

Inlet Configuration: Thin Edge Projecting

Inlet Depression: None

Table 6 - Downstream Channel Rating Curve (Crossing: North Channel Culvert)

Flow (cfs)	Water Surface Elev (ft)	Depth (ft)	Velocity (ft/s)	Shear (psf)	Froude Number
0.00	2723.20	0.00	0.00	0.00	0.00
0.02	2723.23	0.03	8.74	23.91	11.84
0.04	2723.24	0.04	10.39	31.01	12.37
0.06	2723.25	0.05	11.50	36.10	12.69
0.08	2723.26	0.06	12.36	40.22	12.92
0.10	2723.26	0.06	13.07	43.73	13.10
0.12	2723.27	0.07	13.68	46.82	13.25
0.14	2723.27	0.07	14.22	49.61	13.38
0.16	2723.27	0.07	14.70	52.15	13.49
0.18	2723.28	0.08	15.14	54.51	13.59
0.20	2723.28	0.08	15.54	56.71	13.68

Tailwater Channel Data - North Channel Culvert

Tailwater Channel Option: Triangular Channel

Side Slope (H:V): 2.00 (_:1)

Channel Slope: 11.3300

Channel Manning's n: 0.0350

Channel Invert Elevation: 2723.20 ft

Roadway Data for Crossing: North Channel Culvert

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 30.00 ft

Crest Elevation: 2726.00 ft

Roadway Surface: Gravel

Roadway Top Width: 25.00 ft