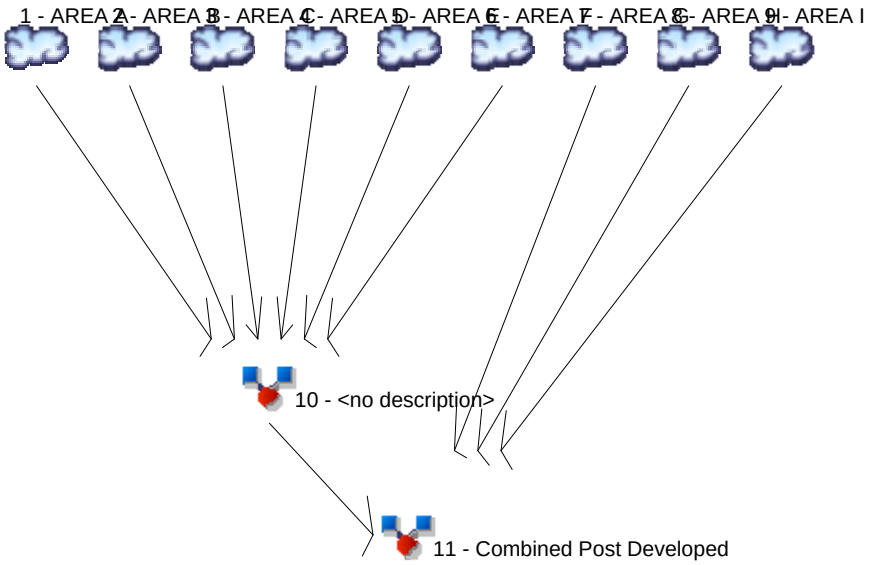
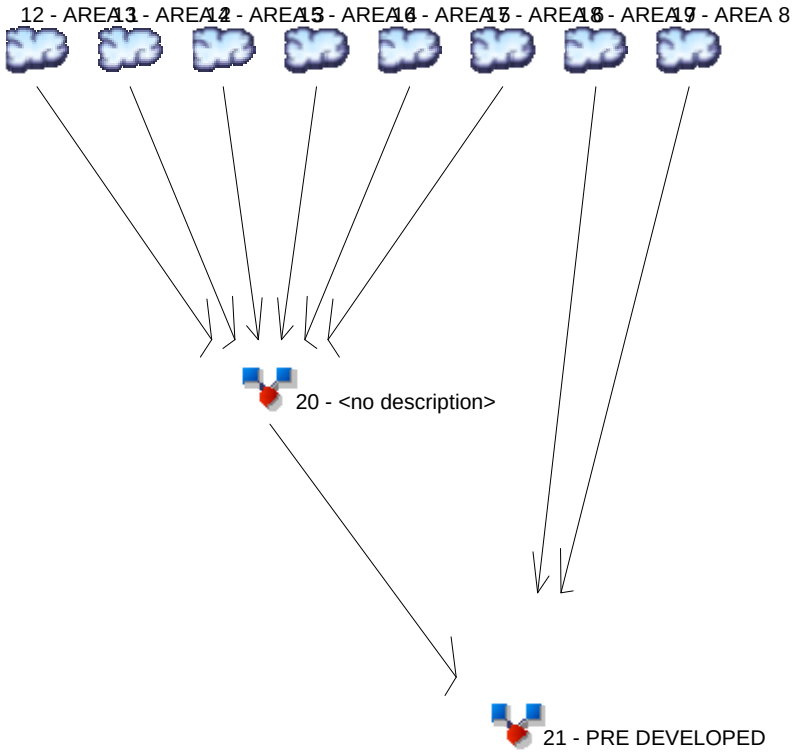
Watershed Model Schematic





Legend

Hyd.	Origin	Description
1	SCS Runoff	AREA A
2	SCS Runoff	AREA B
3	SCS Runoff	AREA C
4	SCS Runoff	AREA D
5	SCS Runoff	AREA E
6	SCS Runoff	AREA F
7	SCS Runoff	AREA G
8	SCS Runoff	AREA H
9	SCS Runoff	AREA I
10	Combine	<no description>
11	Combine	Combined Post Developed
12	SCS Runoff	AREA 1
13	SCS Runoff	AREA 2
14	SCS Runoff	AREA 3
15	SCS Runoff	AREA 4
16	SCS Runoff	AREA 5
17	SCS Runoff	AREA 6
18	SCS Runoff	AREA 7
19	SCS Runoff	AREA 8
20	Combine	<no description>
21	Combine	PRE DEVELOPED

Hydrograph Return Period Recap

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	------	0.504	0.633	-------	0.817	0.945	1.110	1.256	1.421	AREA A
2	SCS Runoff	------	1.553	1.951	-------	2.518	2.913	3.422	3.873	4.381	AREA B
3	SCS Runoff	------	0.504	0.633	-------	0.817	0.945	1.110	1.256	1.421	AREA C
4	SCS Runoff	------	1.469	1.846	-------	2.381	2.756	3.237	3.664	4.144	AREA D
5	SCS Runoff	------	0.336	0.422	-------	0.544	0.630	0.740	0.837	0.947	AREA E
6	SCS Runoff	------	1.049	1.318	-------	1.701	1.969	2.312	2.617	2.960	AREA F
7	SCS Runoff	------	1.049	1.318	-------	1.701	1.969	2.312	2.617	2.960	AREA G
8	SCS Runoff	------	0.798	1.002	-------	1.293	1.496	1.757	1.989	2.250	AREA H
9	SCS Runoff	------	0.714	0.896	-------	1.157	1.339	1.572	1.780	2.013	AREA I
10	Combine	1, 2, 3,	5.415	6.802	-------	8.777	10.16	11.93	13.50	15.27	<no description>
11	Combine	4, 5, 6, 7, 8, 9, 10	7.975	10.02	-------	12.93	14.96	17.57	19.89	22.50	Combined Post Developed
12	SCS Runoff	------	7.472	9.386	-------	12.11	14.02	16.46	18.63	21.08	AREA 1
13	SCS Runoff	------	0.336	0.422	-------	0.544	0.630	0.740	0.837	0.947	AREA 2
14	SCS Runoff	------	0.168	0.211	-------	0.272	0.315	0.370	0.419	0.474	AREA 3
15	SCS Runoff	------	1.049	1.318	-------	1.701	1.969	2.312	2.617	2.960	AREA 4
16	SCS Runoff	------	0.462	0.580	-------	0.748	0.866	1.017	1.152	1.302	AREA 5
17	SCS Runoff	------	0.378	0.475	-------	0.612	0.709	0.832	0.942	1.066	AREA 6
18	SCS Runoff	------	0.672	0.844	-------	1.089	1.260	1.480	1.675	1.895	AREA 7
19	SCS Runoff	------	0.546	0.685	-------	0.885	1.024	1.202	1.361	1.539	AREA 8
20	Combine	12, 13, 14,	9.864	12.39	-------	15.99	18.50	21.73	24.60	27.83	<no description>
21	Combine	15, 16, 17, 18, 19, 20	11.08	13.92	-------	17.96	20.79	24.42	27.64	31.26	PRE DEVELOPED

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

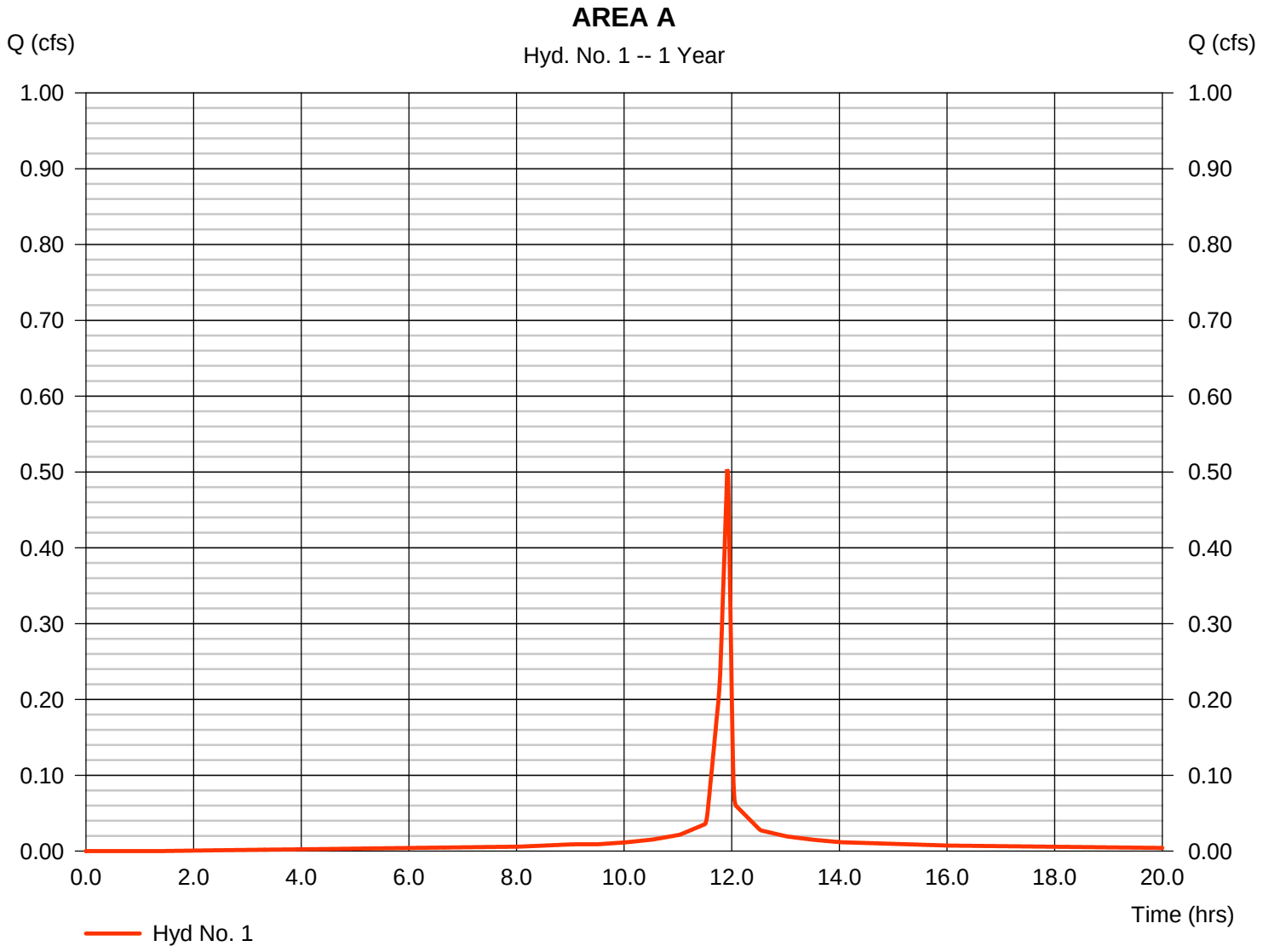
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	0.504	1	715	0.024	------	------	------	AREA A
2	SCS Runoff	1.553	1	715	0.074	------	------	------	AREA B
3	SCS Runoff	0.504	1	715	0.024	------	------	------	AREA C
4	SCS Runoff	1.469	1	715	0.070	------	------	------	AREA D
5	SCS Runoff	0.336	1	715	0.016	------	------	------	AREA E
6	SCS Runoff	1.049	1	715	0.050	------	------	------	AREA F
7	SCS Runoff	1.049	1	715	0.050	------	------	------	AREA G
8	SCS Runoff	0.798	1	715	0.038	------	------	------	AREA H
9	SCS Runoff	0.714	1	715	0.034	------	------	------	AREA I
10	Combine	5.415	1	715	0.259	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	------	------	<no description>
11	Combine	7.975	1	715	0.381	------	------	------	Combined Post Developed
12	SCS Runoff	7.472	1	715	0.357	------	------	------	AREA 1
13	SCS Runoff	0.336	1	715	0.016	------	------	------	AREA 2
14	SCS Runoff	0.168	1	715	0.008	------	------	------	AREA 3
15	SCS Runoff	1.049	1	715	0.050	------	------	------	AREA 4
16	SCS Runoff	0.462	1	715	0.022	------	------	------	AREA 5
17	SCS Runoff	0.378	1	715	0.018	------	------	------	AREA 6
18	SCS Runoff	0.672	1	715	0.032	------	------	------	AREA 7
19	SCS Runoff	0.546	1	715	0.026	------	------	------	AREA 8
20	Combine	9.864	1	715	0.472	12, 13, 14, 15, 16, 17, 18, 19, 20	------	------	<no description>
21	Combine	11.08	1	715	0.530	------	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.504 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.024 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

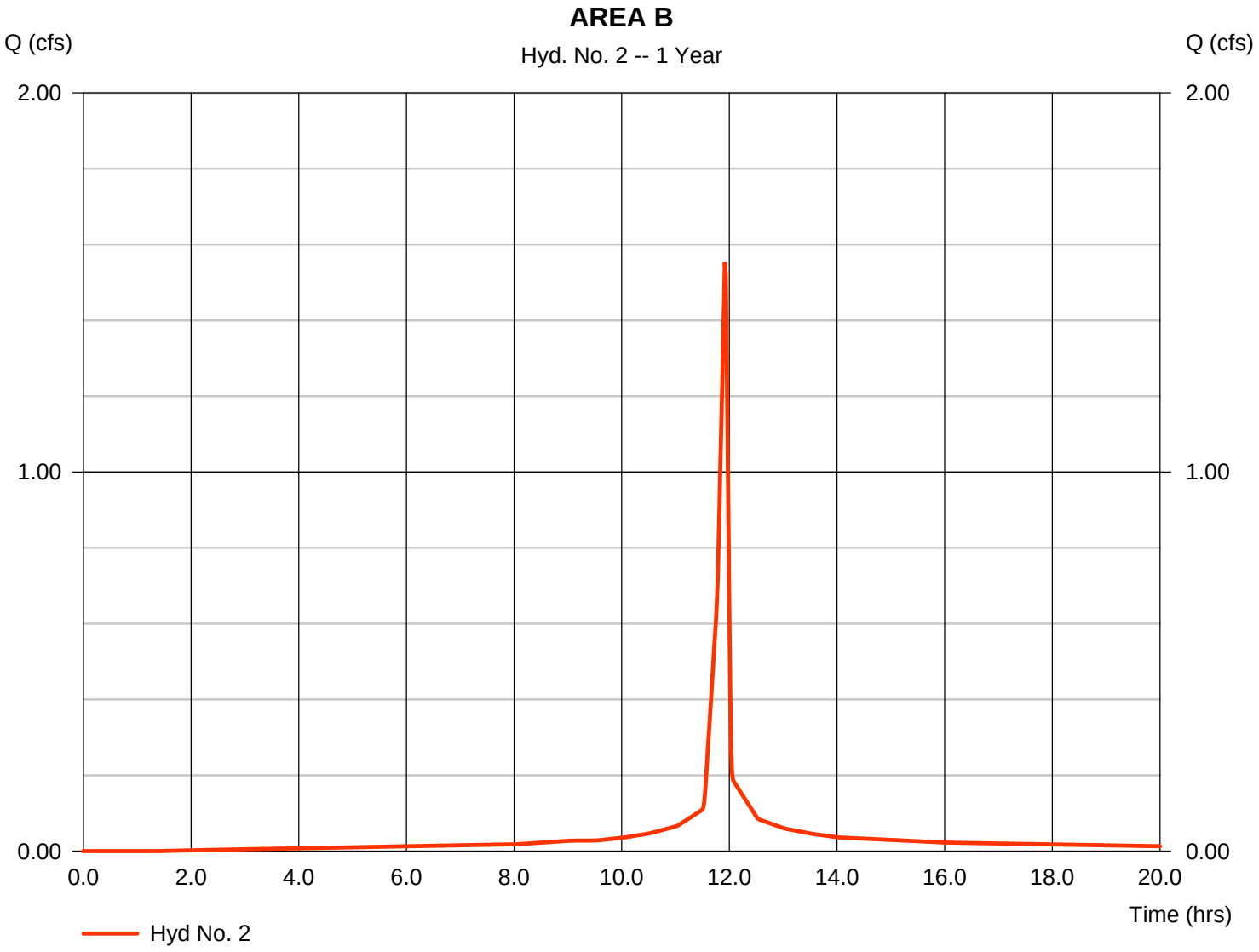


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 1.553 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.074 acft
Drainage area	= 0.370 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

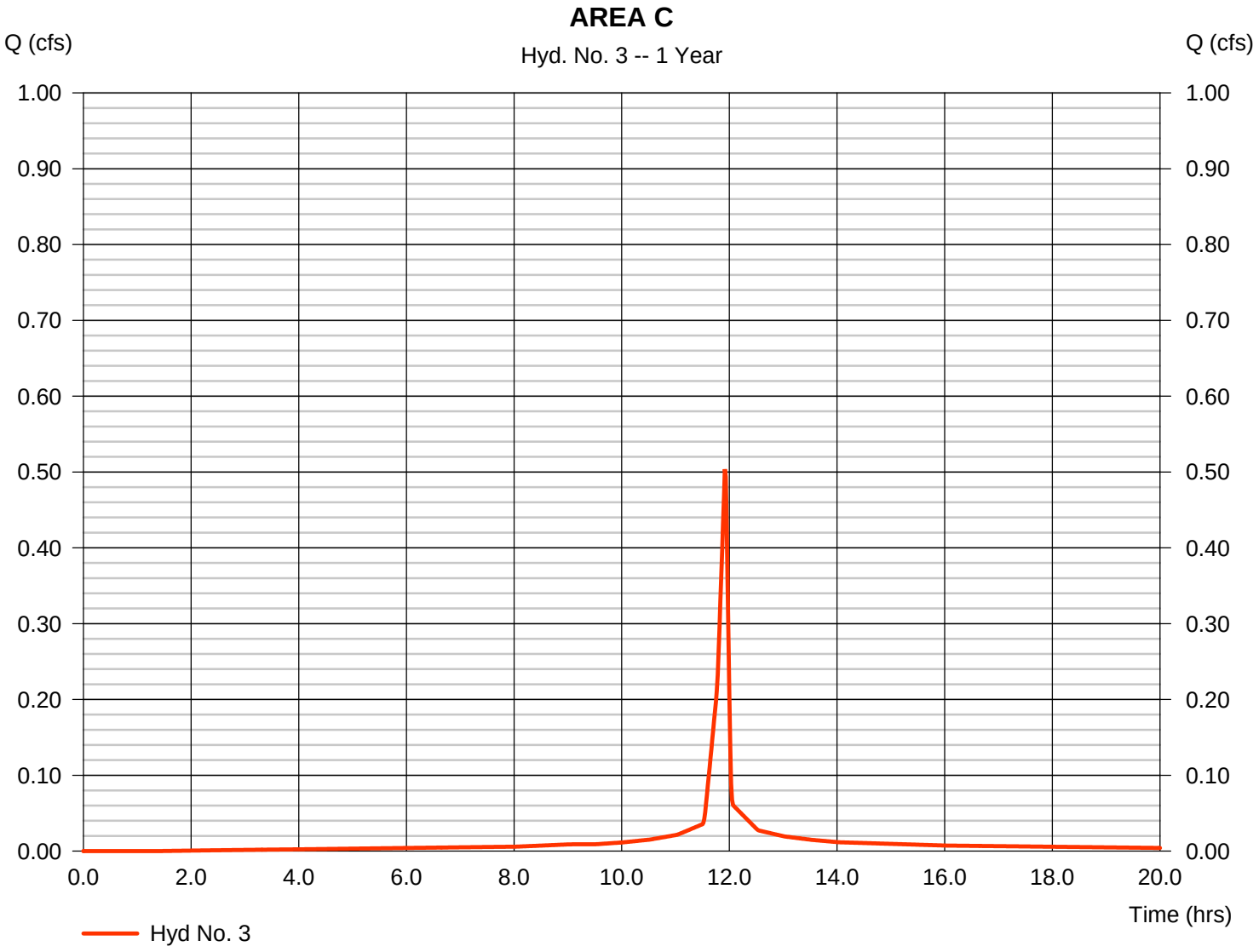


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.504 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.024 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

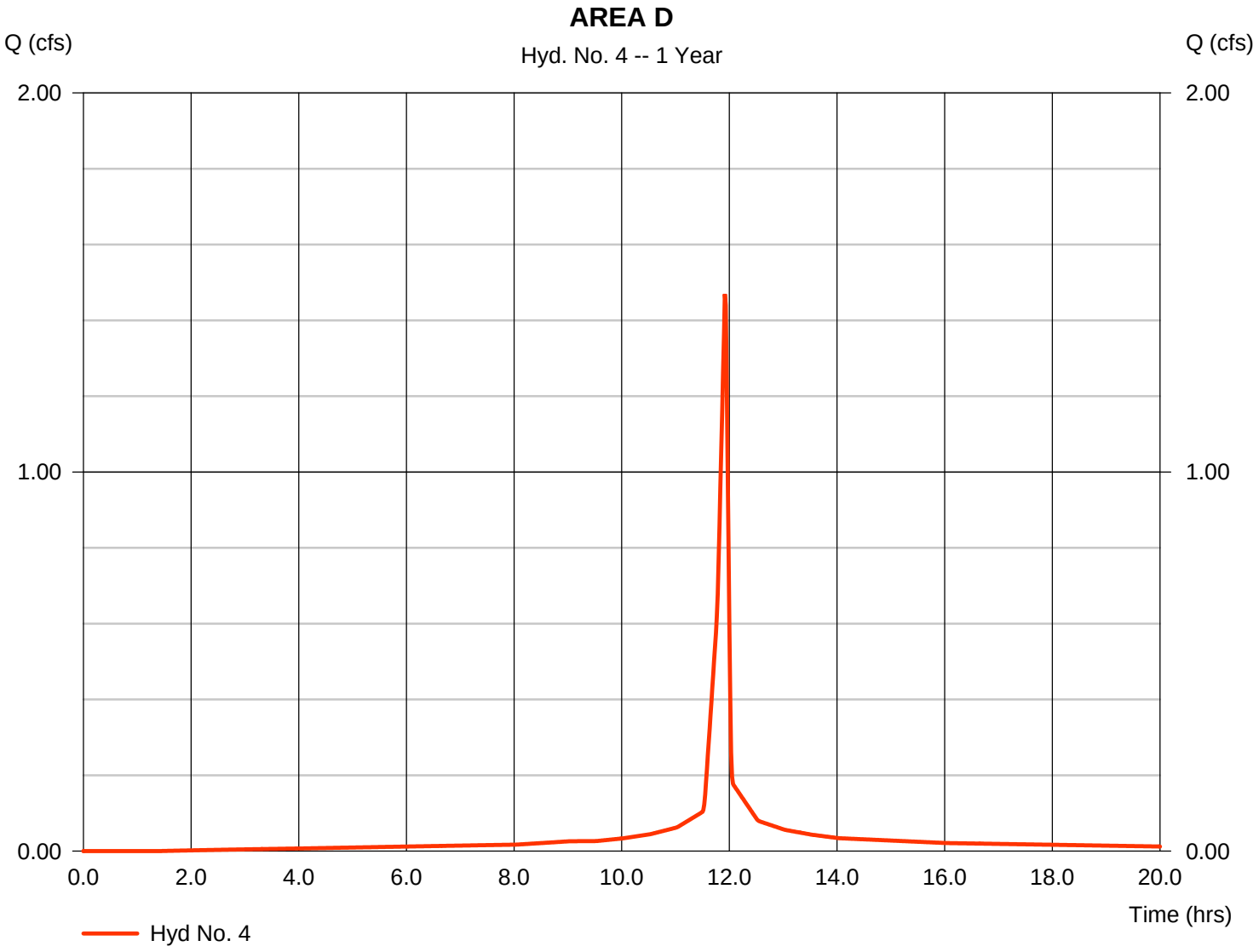


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.469 cfs
Storm frequency	=	1 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.070 acft
Drainage area	=	0.350 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	1.70 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

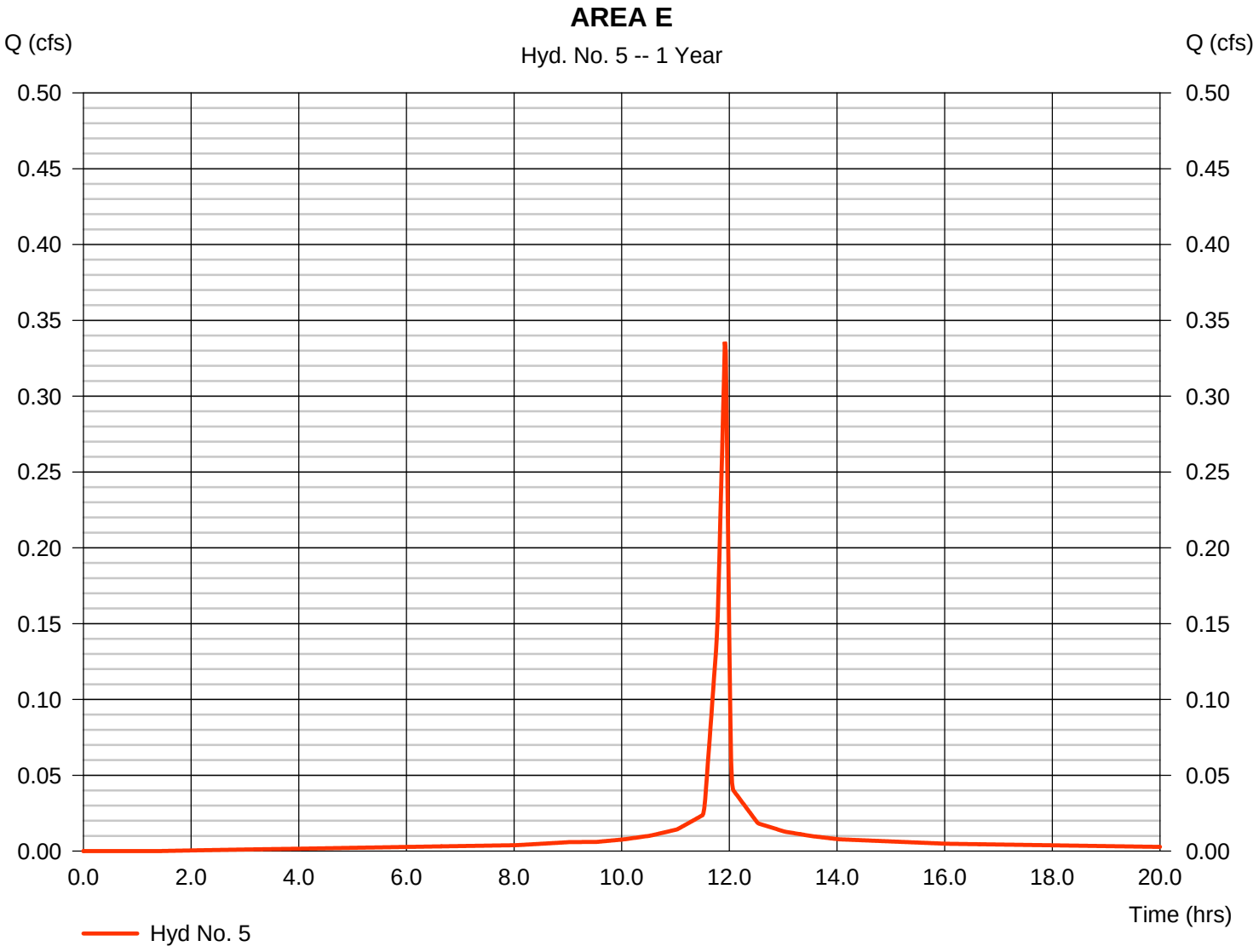


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 0.336 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.016 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

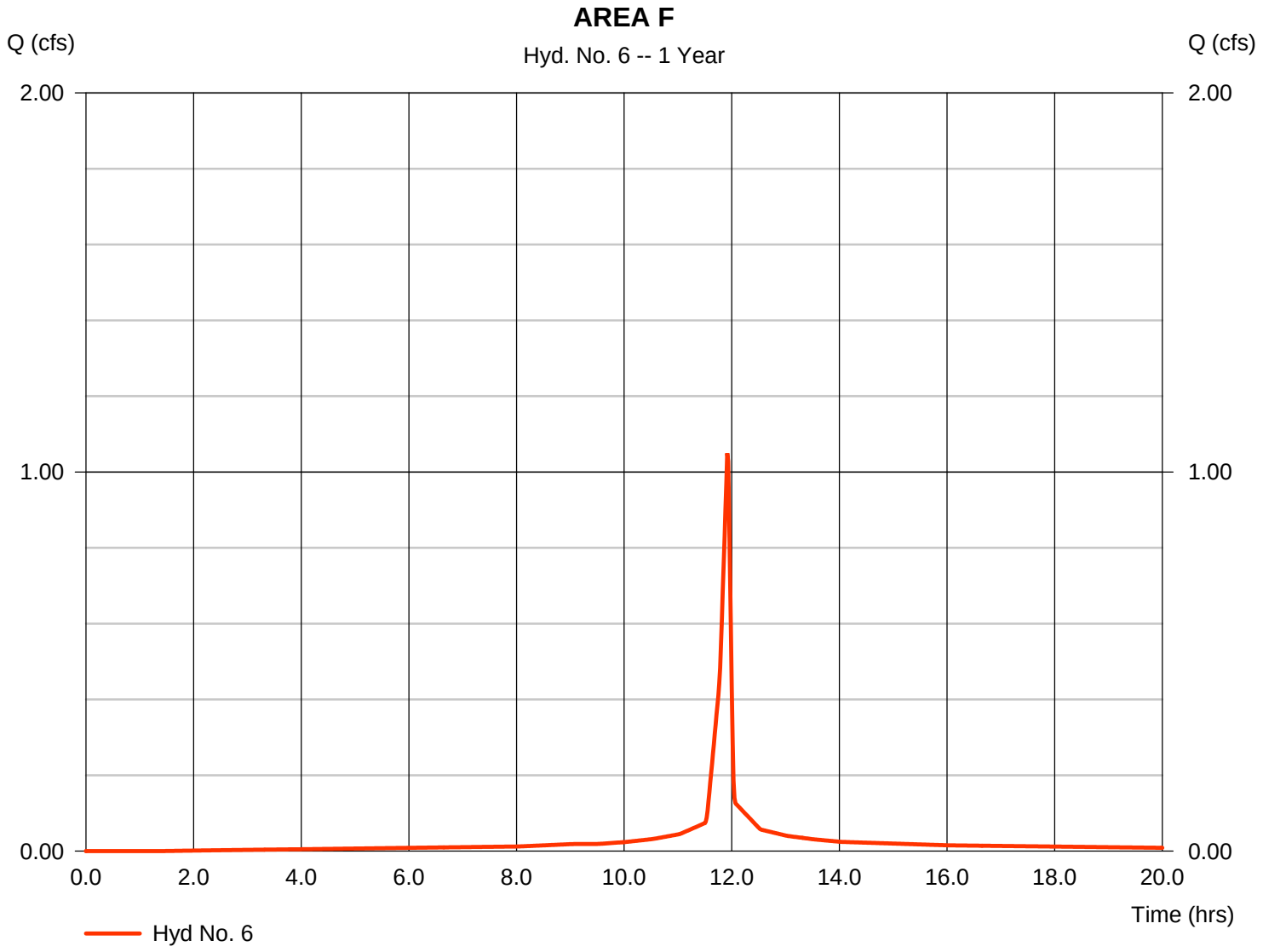


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.049 cfs
Storm frequency	=	1 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.050 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

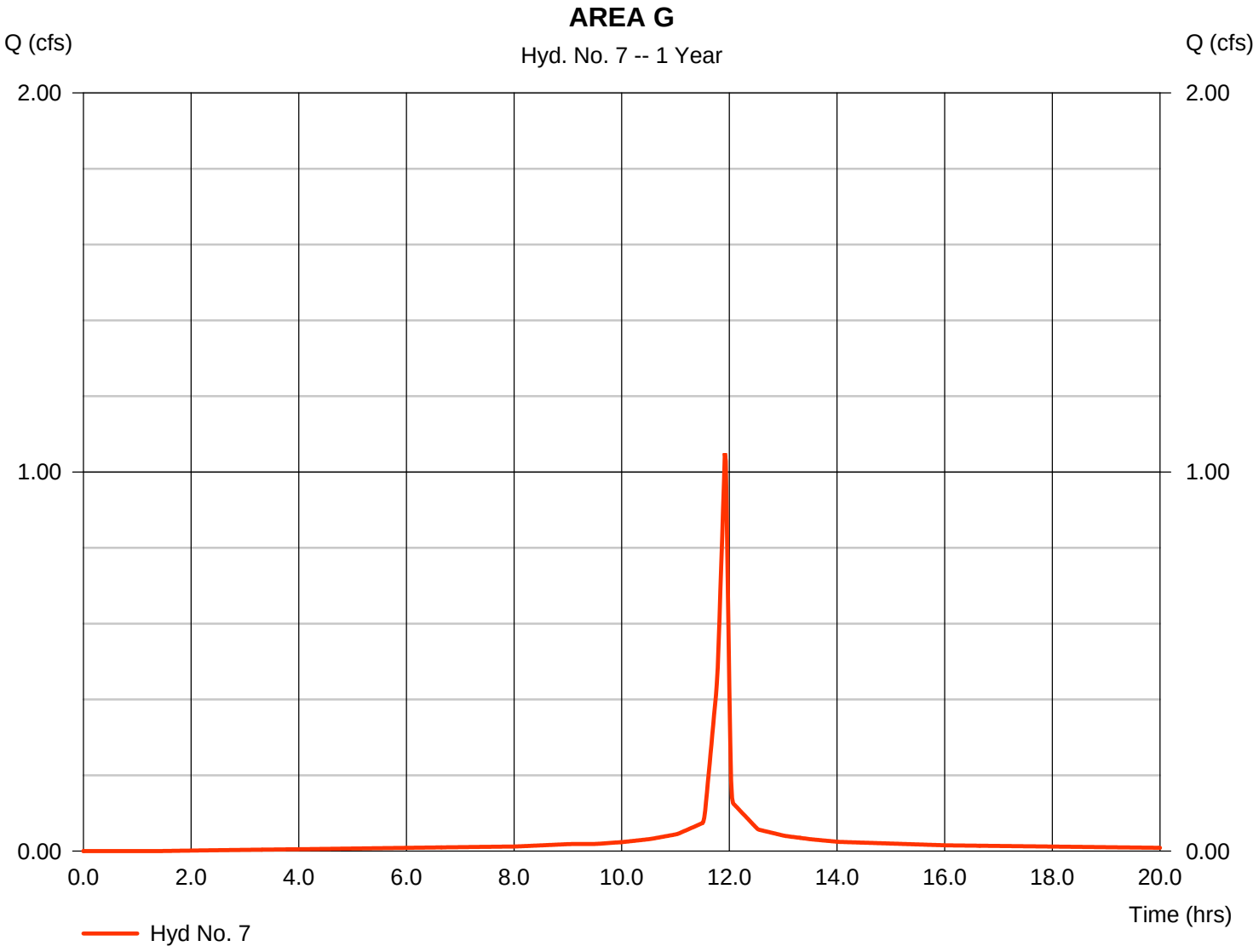


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.049 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.050 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

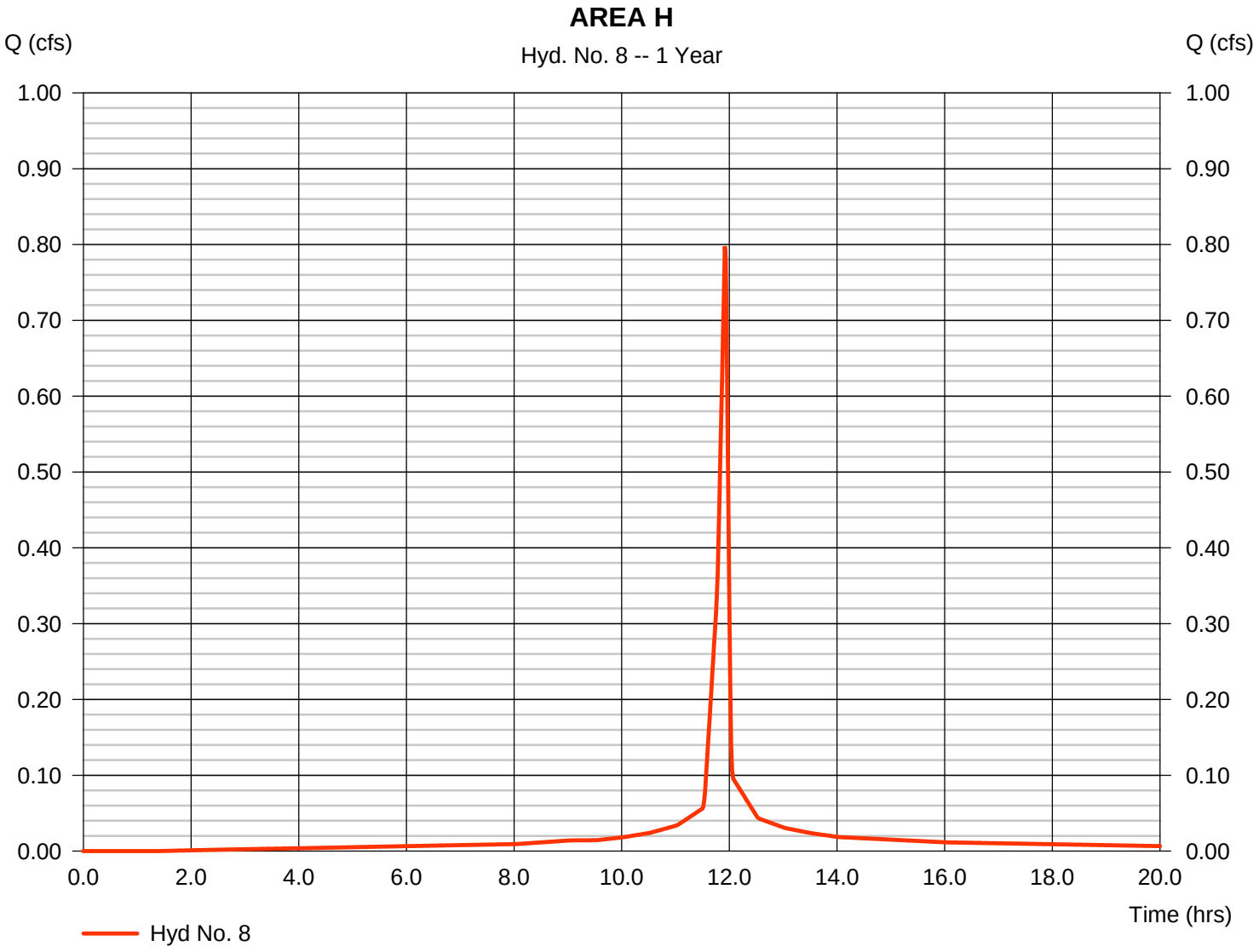


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 0.798 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.038 acft
Drainage area	= 0.190 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

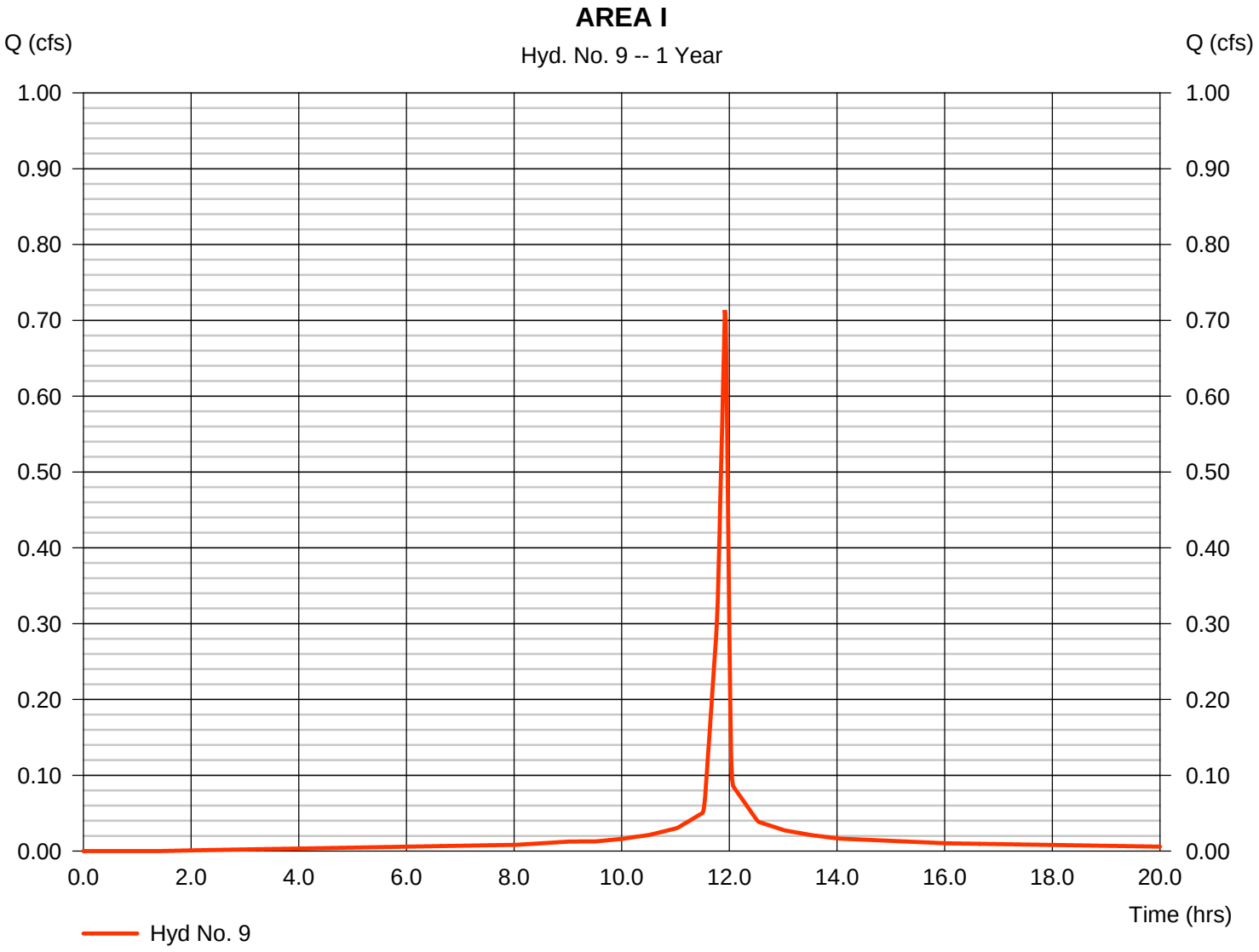


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	= SCS Runoff	Peak discharge	= 0.714 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.034 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

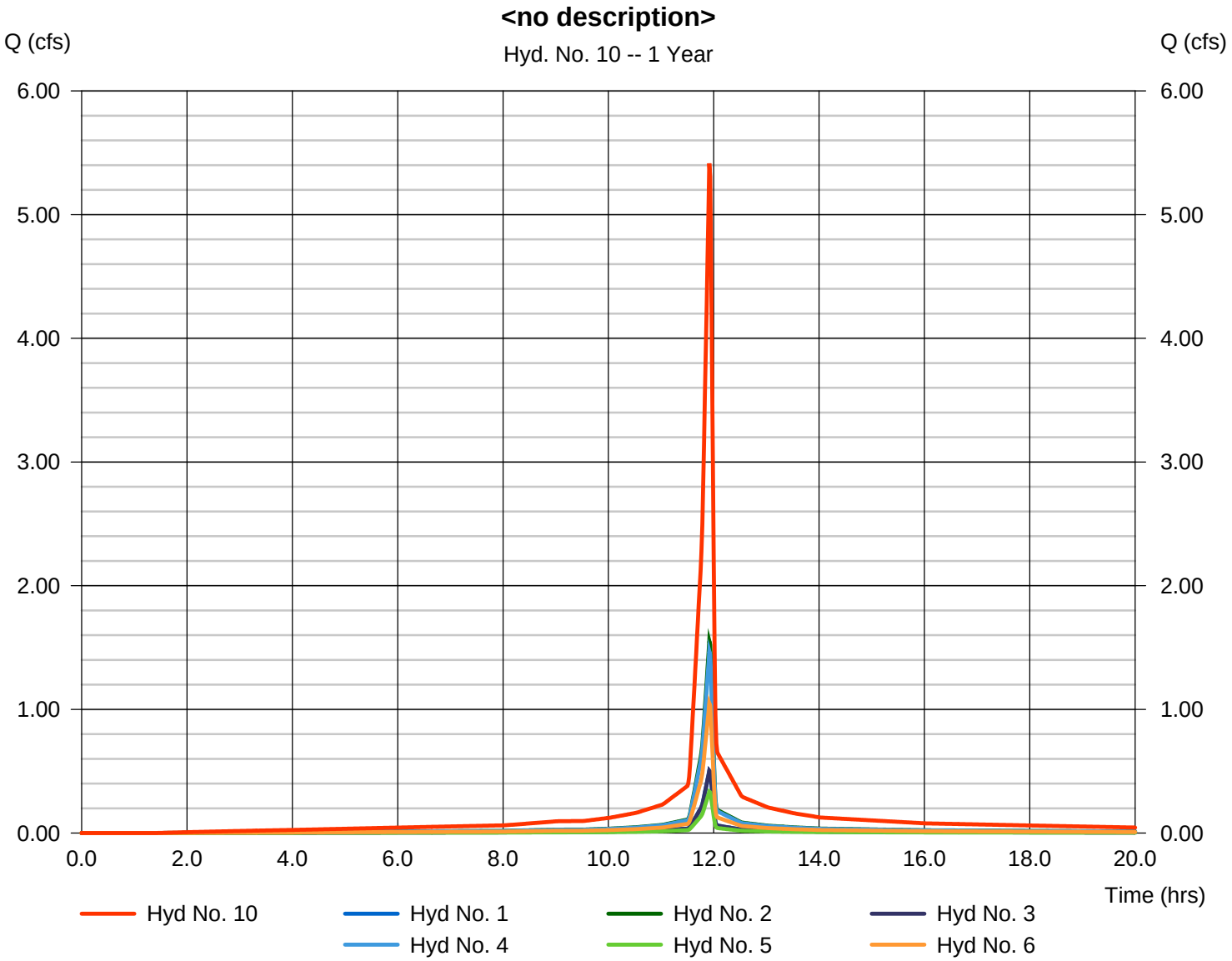


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	= Combine	Peak discharge	= 5.415 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.259 acft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 1.290 ac

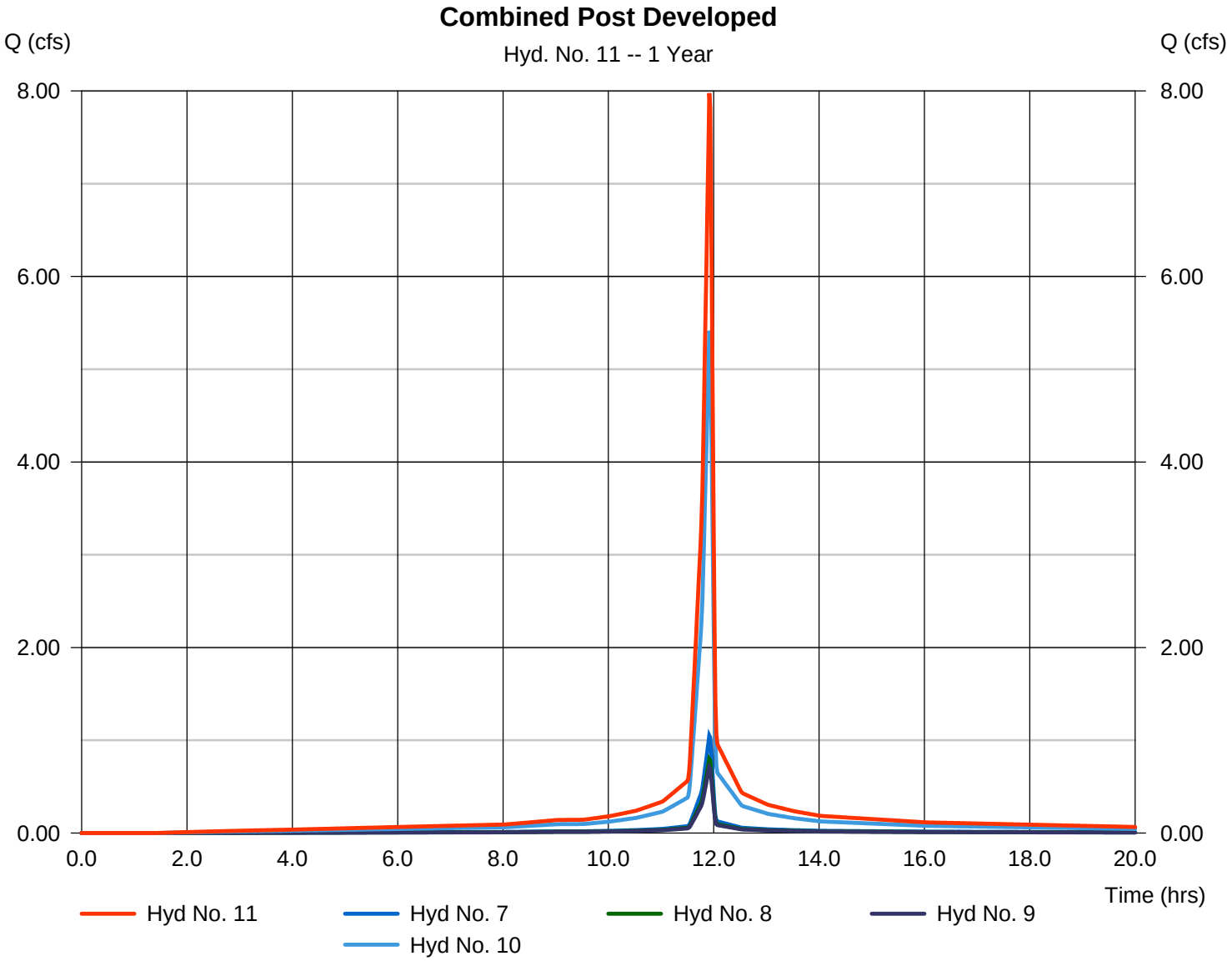


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	=	Combine	Peak discharge	=	7.975 cfs
Storm frequency	=	1 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.381 acft
Inflow hyds.	=	7, 8, 9, 10	Contrib. drain. area	=	0.610 ac

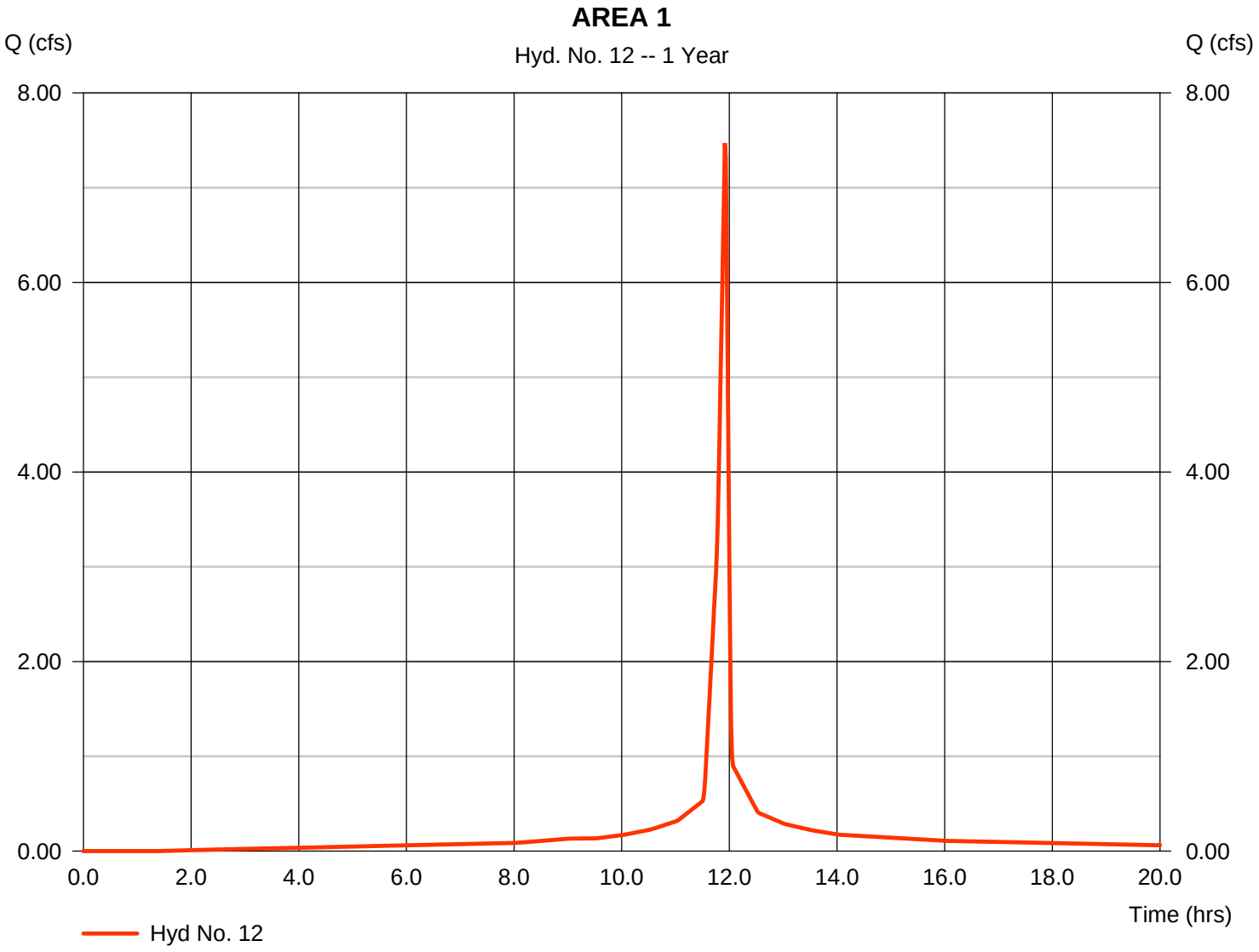


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	=	SCS Runoff	Peak discharge	=	7.472 cfs
Storm frequency	=	1 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.357 acft
Drainage area	=	1.780 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	3.00 min
Total precip.	=	2.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

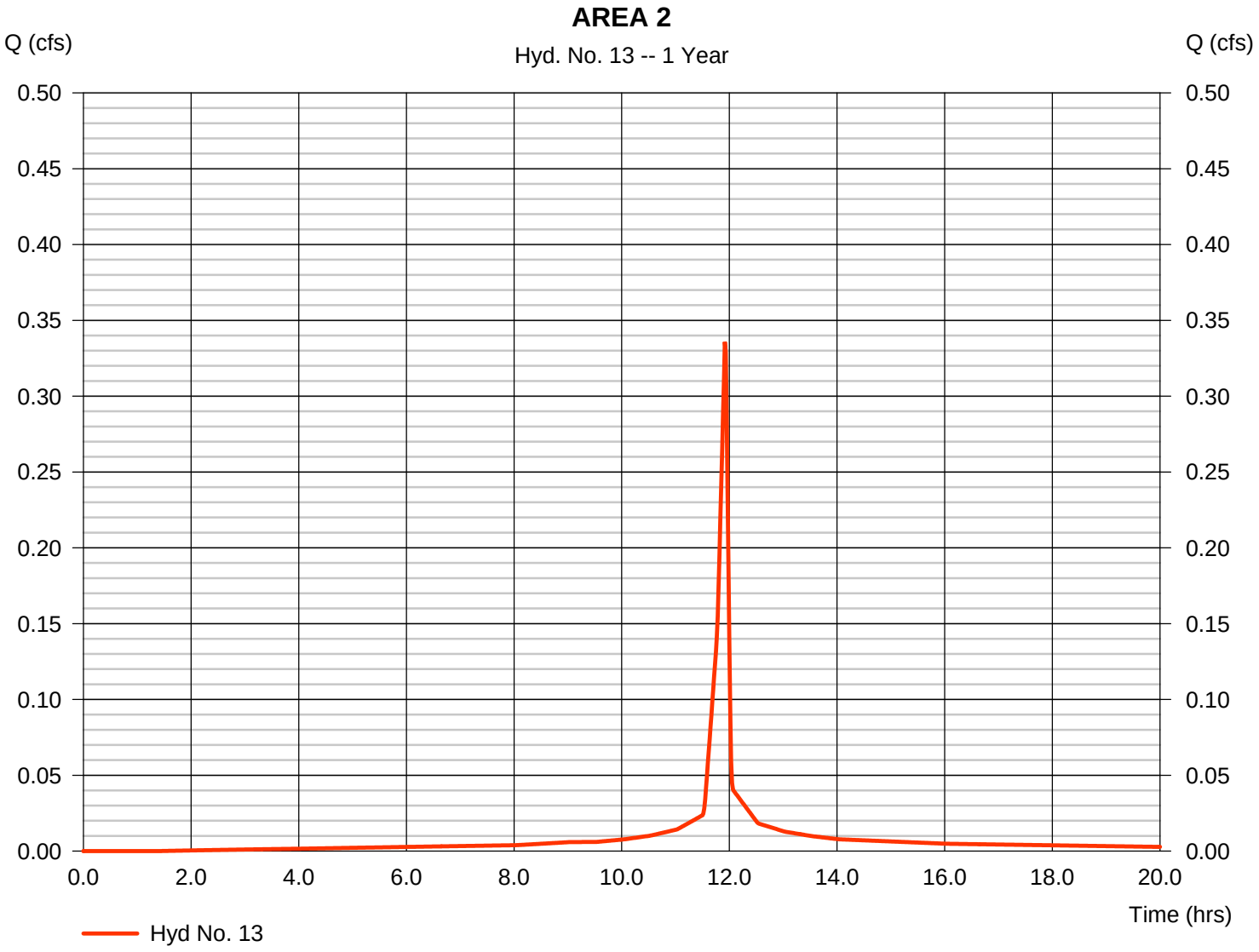


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.336 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.016 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

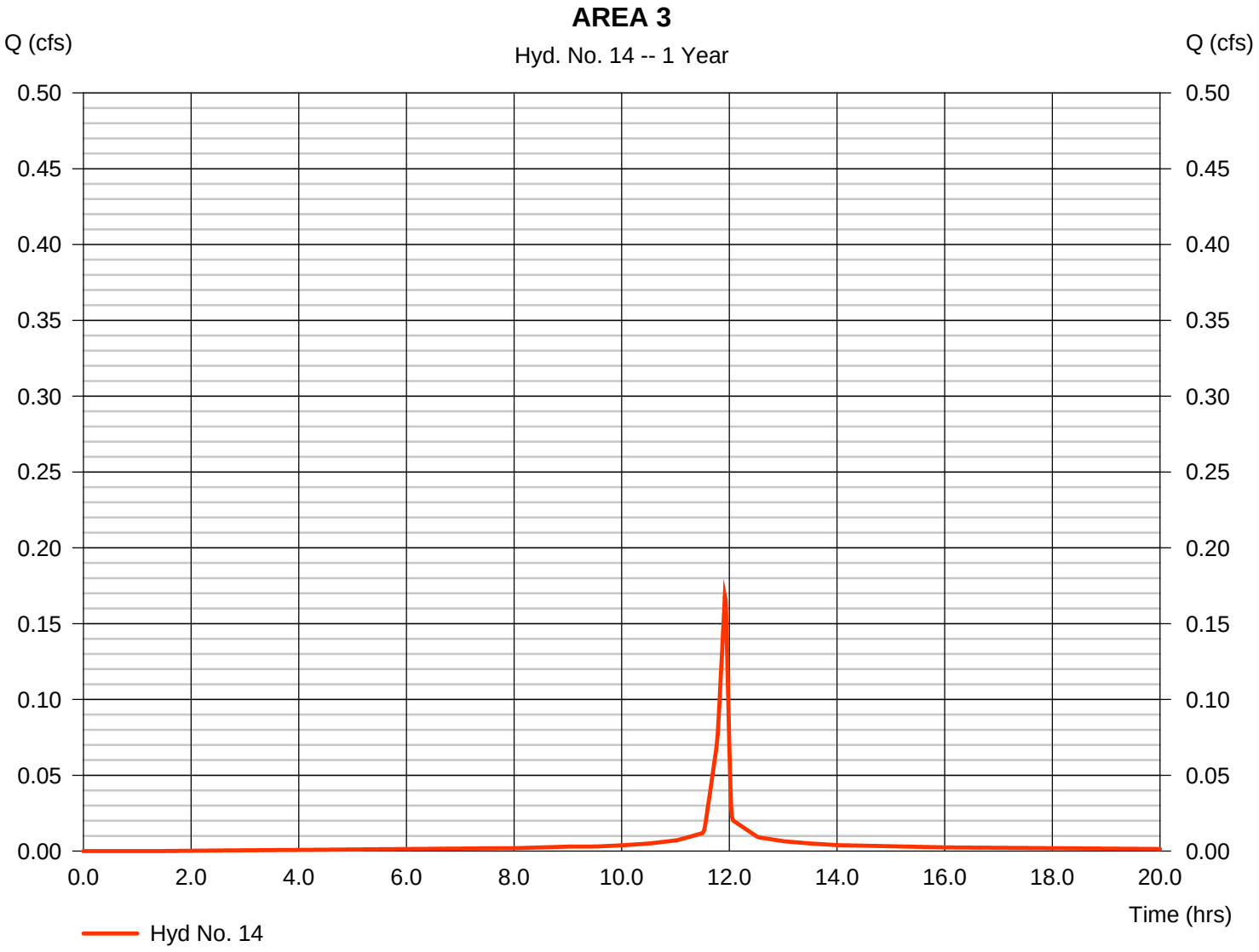


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.168 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.008 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

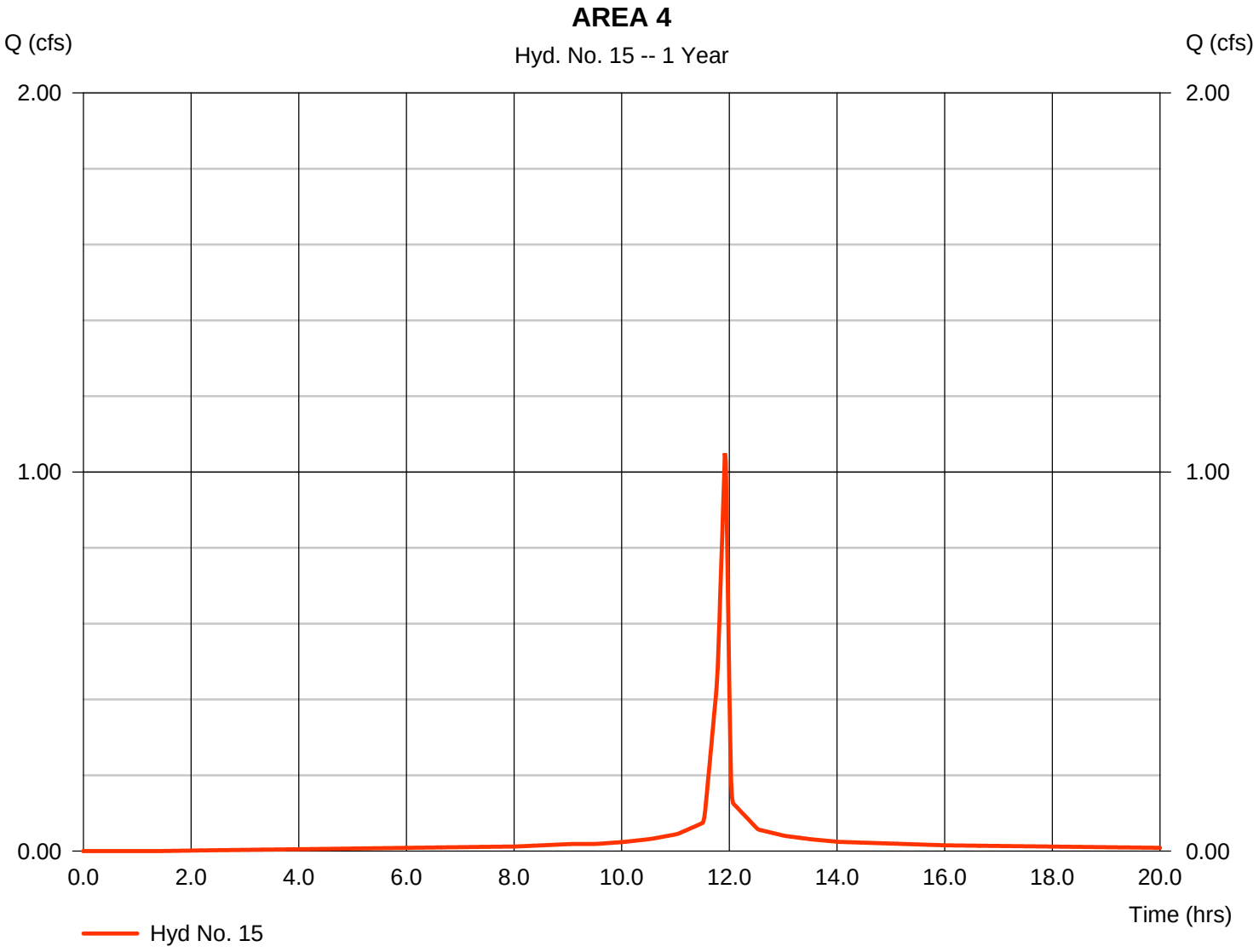


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 1.049 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.050 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

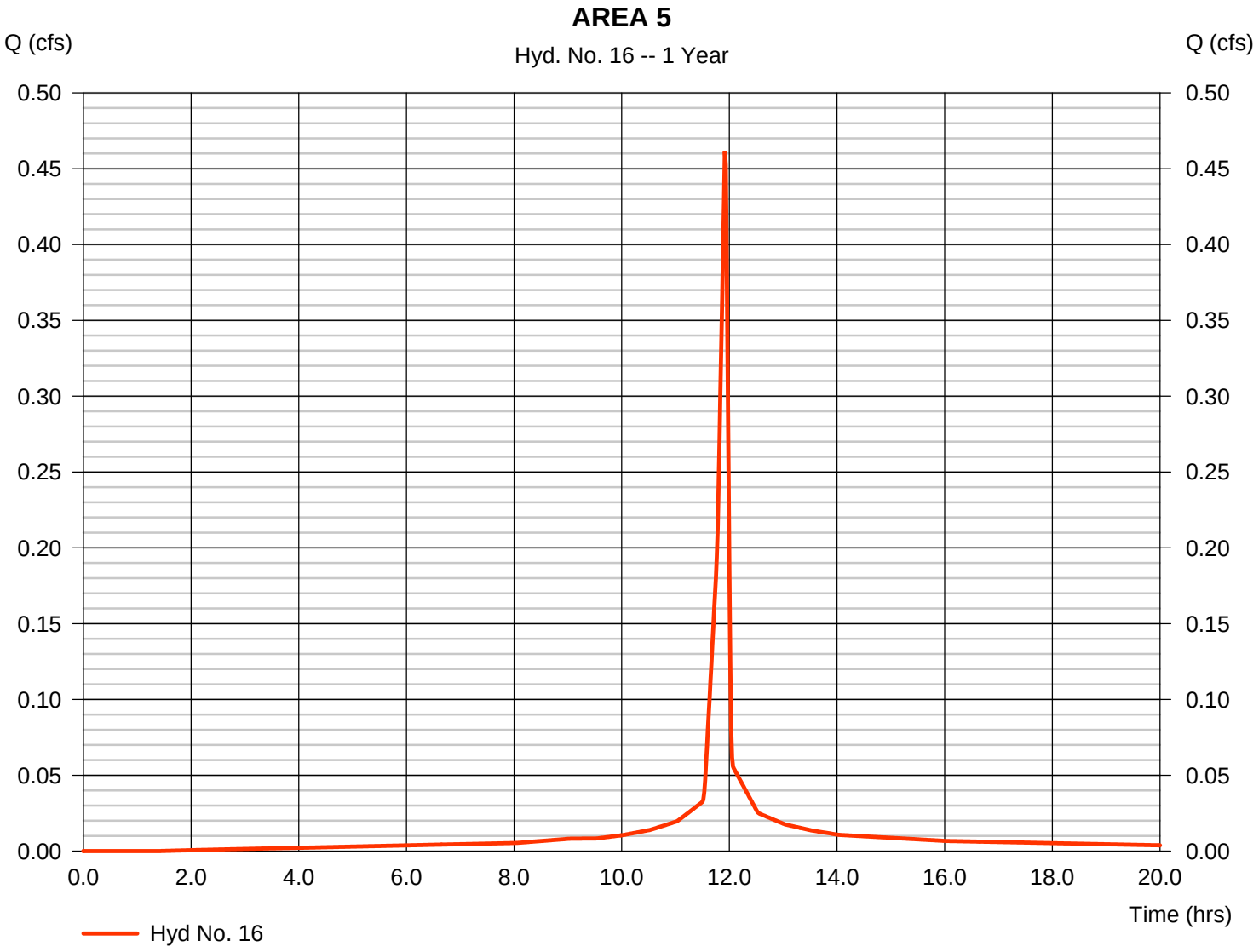


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 0.462 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.022 acft
Drainage area	= 0.110 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

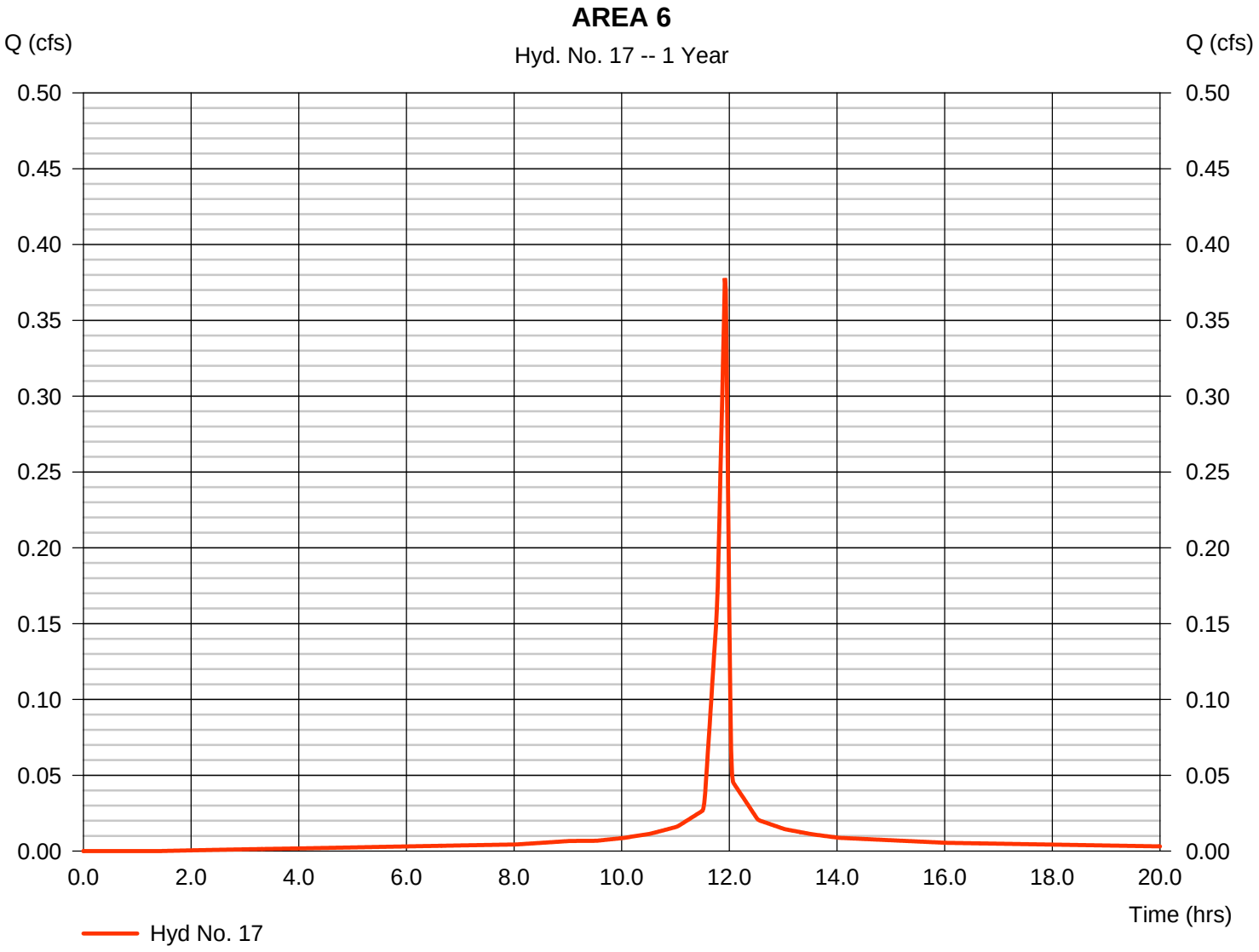


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.378 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.018 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

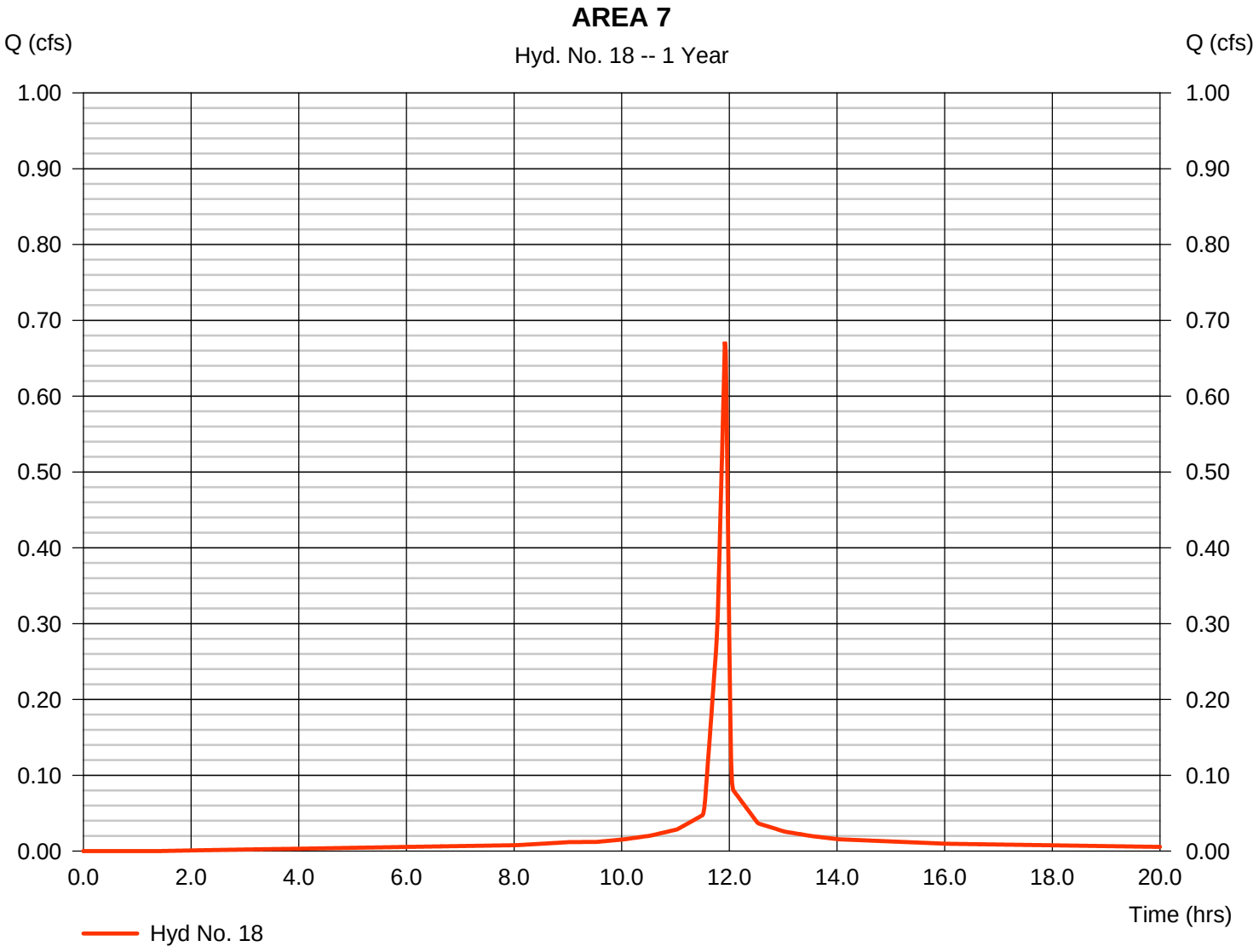


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 0.672 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.032 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

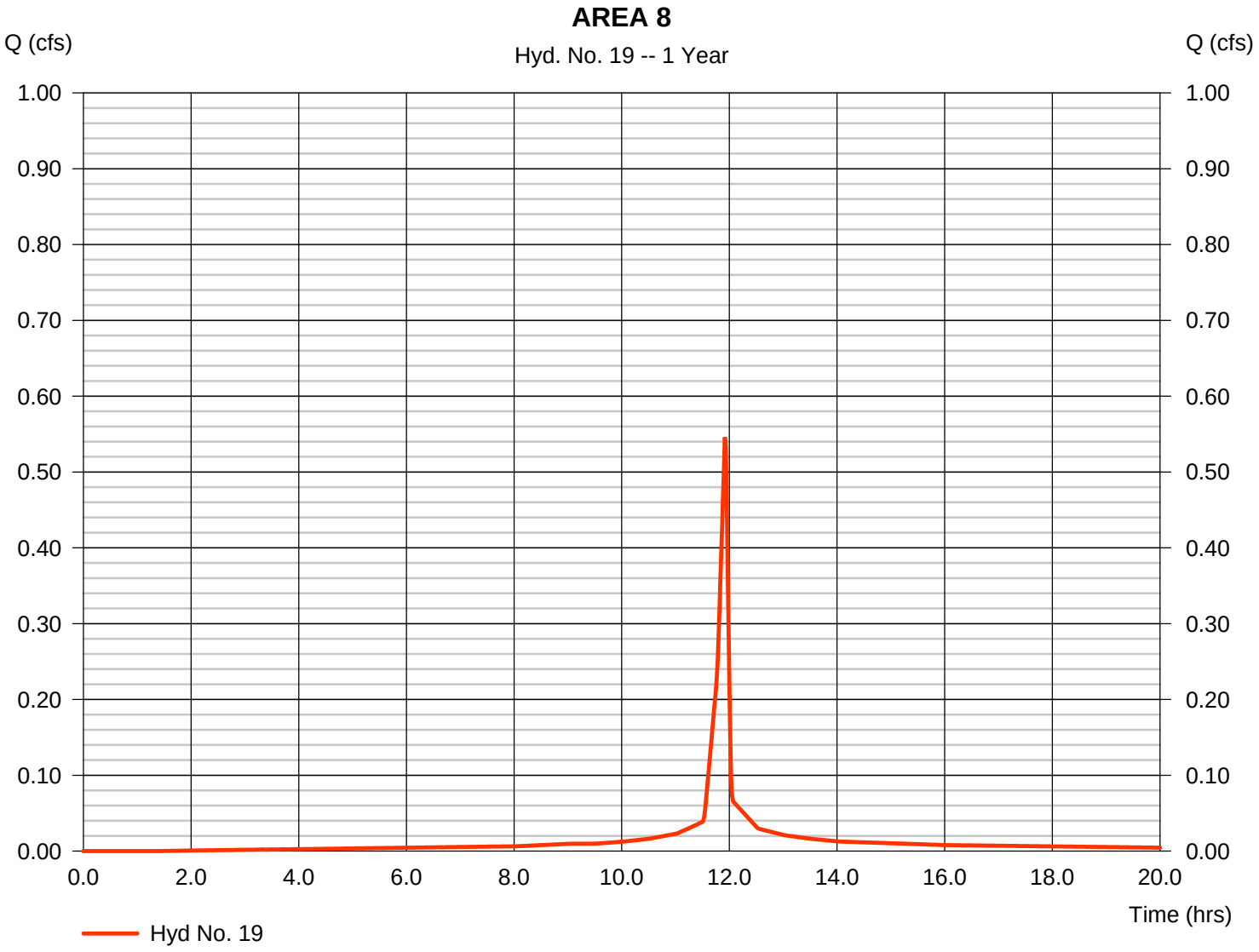


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 0.546 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.026 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 2.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

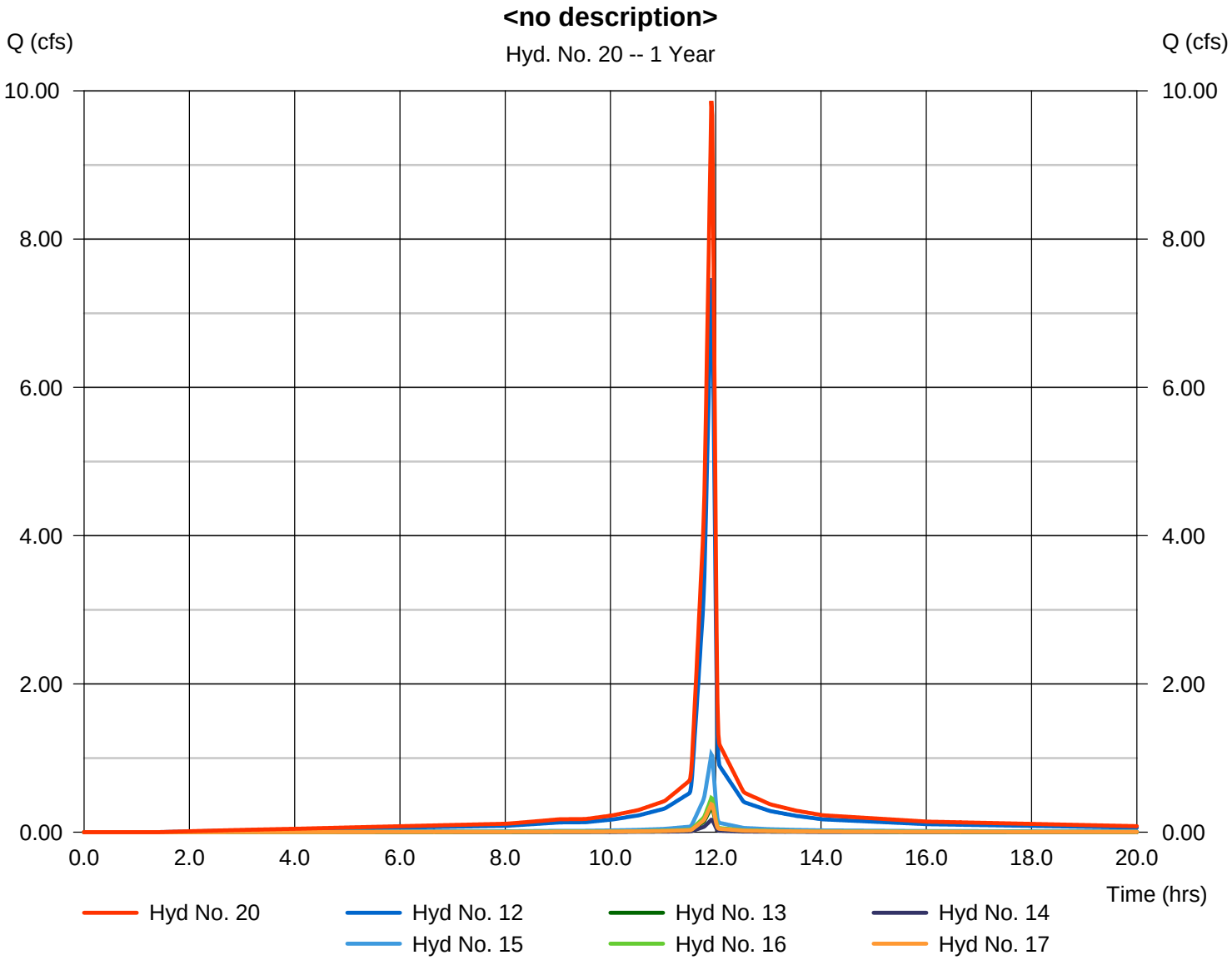


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	= Combine	Peak discharge	= 9.864 cfs
Storm frequency	= 1 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.472 acft
Inflow hyds.	= 12, 13, 14, 15, 16, 17	Contrib. drain. area	= 2.350 ac

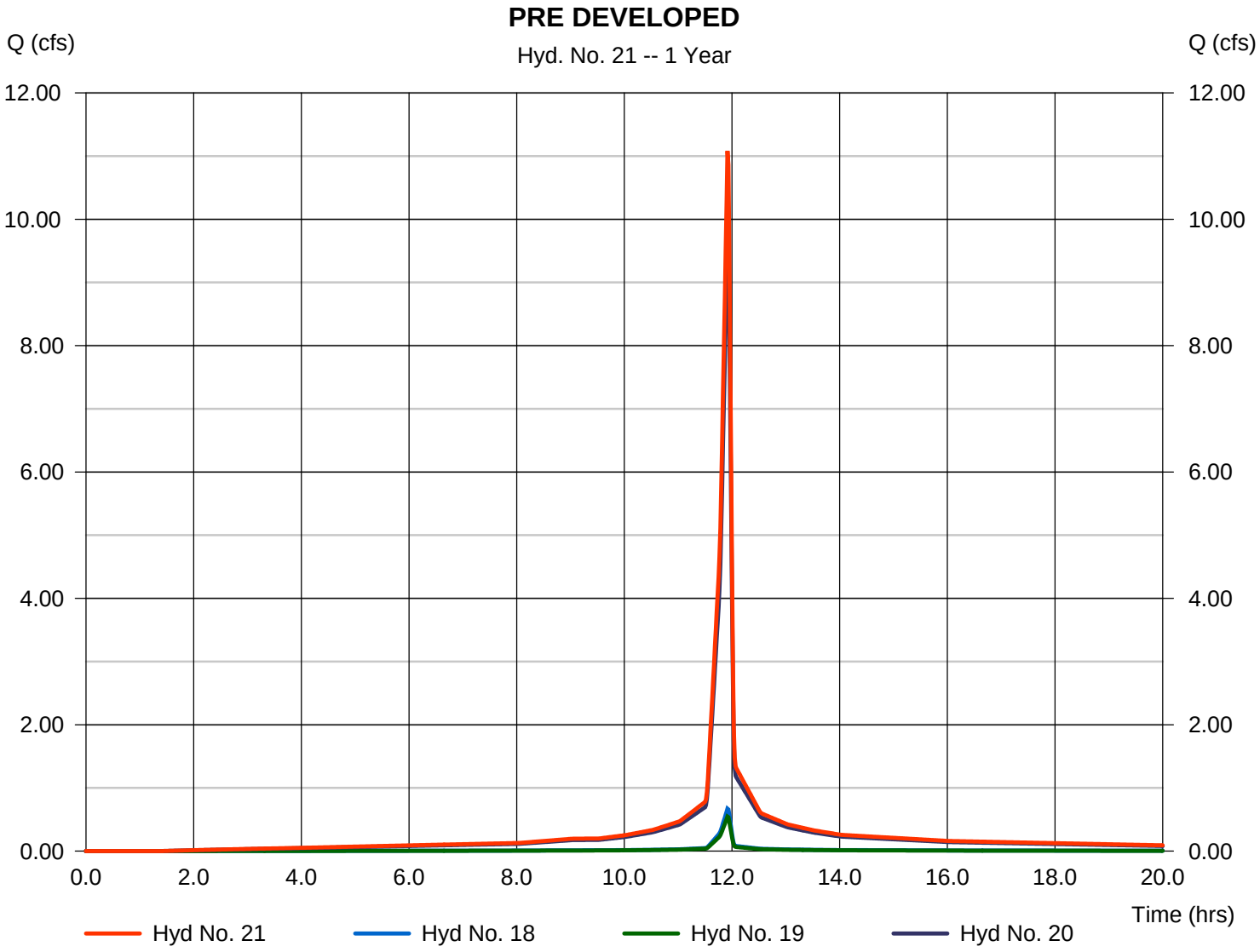


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	11.08 cfs
Storm frequency	=	1 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.530 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

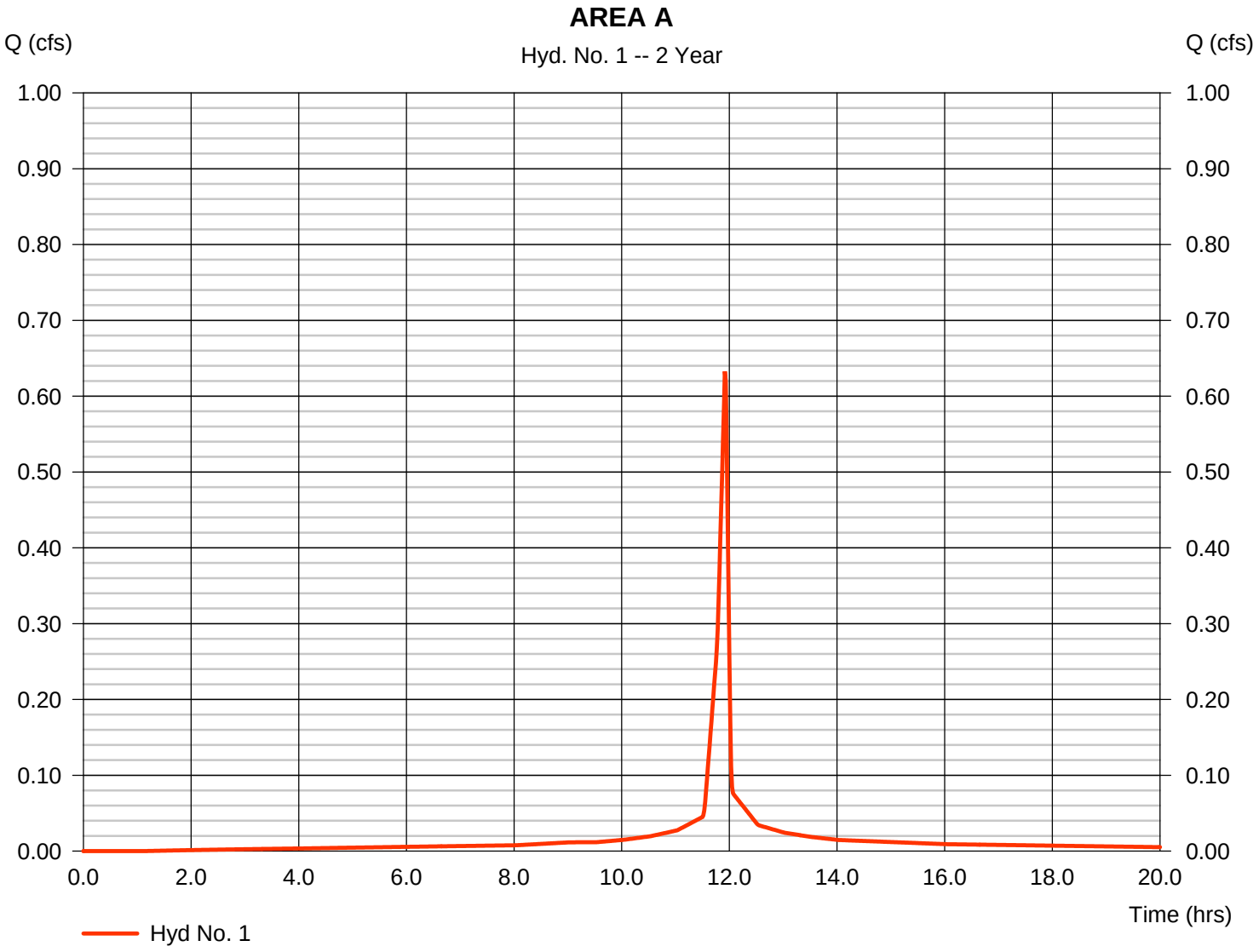
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	0.633	1	715	0.031	------	------	------	AREA A
2	SCS Runoff	1.951	1	715	0.094	------	------	------	AREA B
3	SCS Runoff	0.633	1	715	0.031	------	------	------	AREA C
4	SCS Runoff	1.846	1	715	0.089	------	------	------	AREA D
5	SCS Runoff	0.422	1	715	0.020	------	------	------	AREA E
6	SCS Runoff	1.318	1	715	0.064	------	------	------	AREA F
7	SCS Runoff	1.318	1	715	0.064	------	------	------	AREA G
8	SCS Runoff	1.002	1	715	0.048	------	------	------	AREA H
9	SCS Runoff	0.896	1	715	0.043	------	------	------	AREA I
10	Combine	6.802	1	715	0.329	1, 2, 3,	------	------	<no description>
11	Combine	10.02	1	715	0.485	4, 5, 6, 7, 8, 9, 10	------	------	Combined Post Developed
12	SCS Runoff	9.386	1	715	0.454	------	------	------	AREA 1
13	SCS Runoff	0.422	1	715	0.020	------	------	------	AREA 2
14	SCS Runoff	0.211	1	715	0.010	------	------	------	AREA 3
15	SCS Runoff	1.318	1	715	0.064	------	------	------	AREA 4
16	SCS Runoff	0.580	1	715	0.028	------	------	------	AREA 5
17	SCS Runoff	0.475	1	715	0.023	------	------	------	AREA 6
18	SCS Runoff	0.844	1	715	0.041	------	------	------	AREA 7
19	SCS Runoff	0.685	1	715	0.033	------	------	------	AREA 8
20	Combine	12.39	1	715	0.600	12, 13, 14,	------	------	<no description>
21	Combine	13.92	1	715	0.674	15, 16, 17, 18, 19, 20	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.633 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.031 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

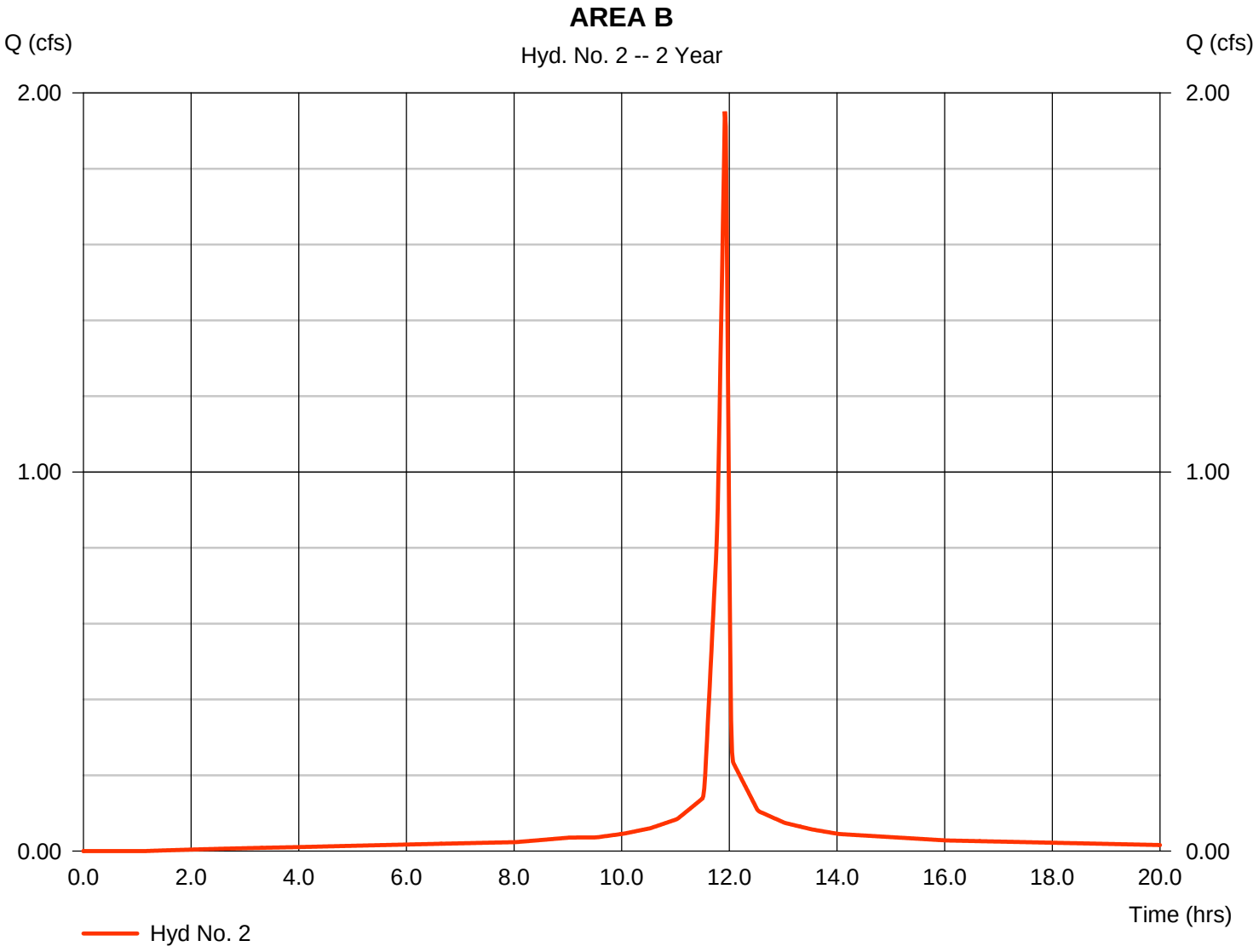


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.951 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.094 acft
Drainage area	=	0.370 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	3.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

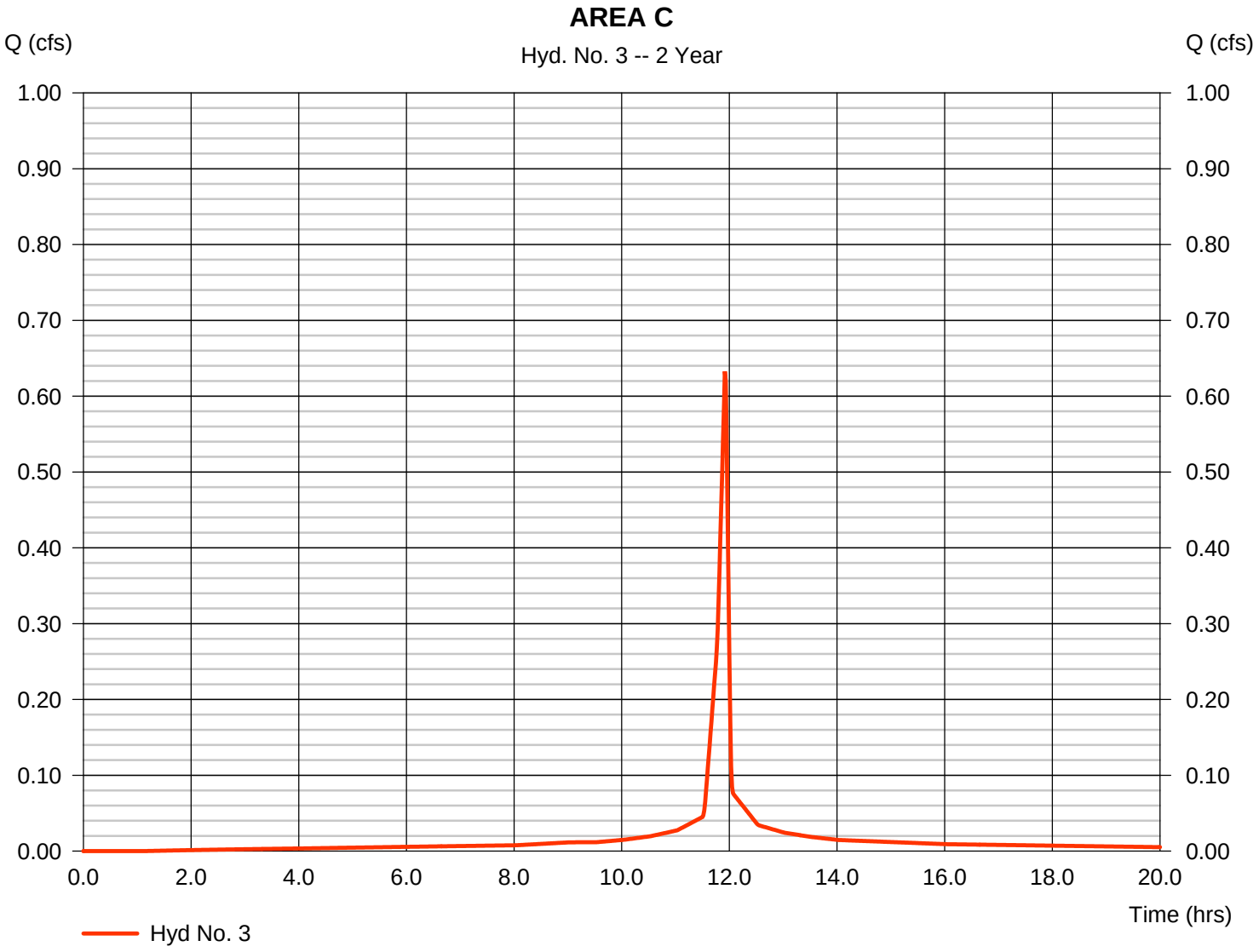


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.633 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.031 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

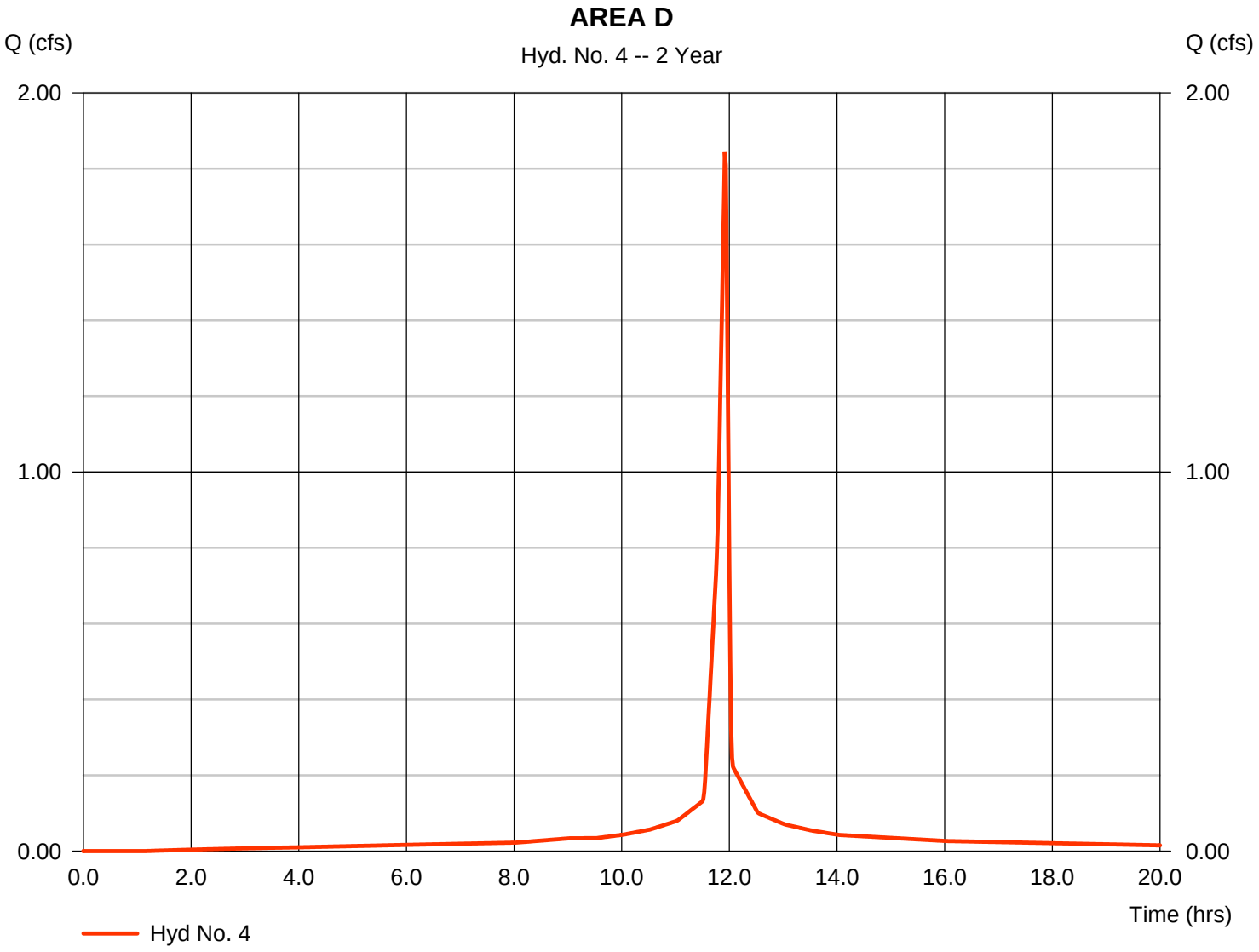


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 1.846 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.089 acft
Drainage area	= 0.350 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 1.70 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

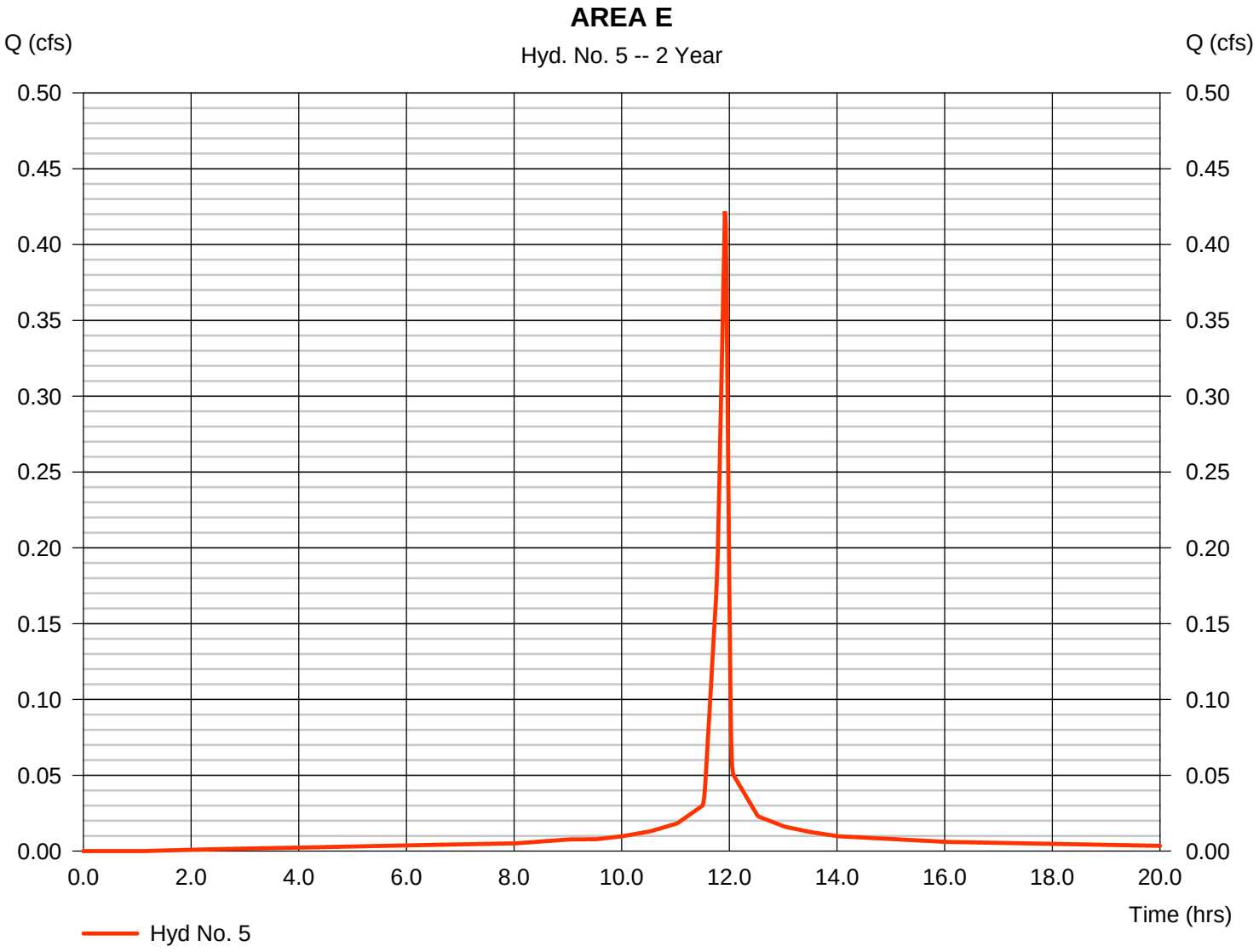


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 0.422 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.020 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

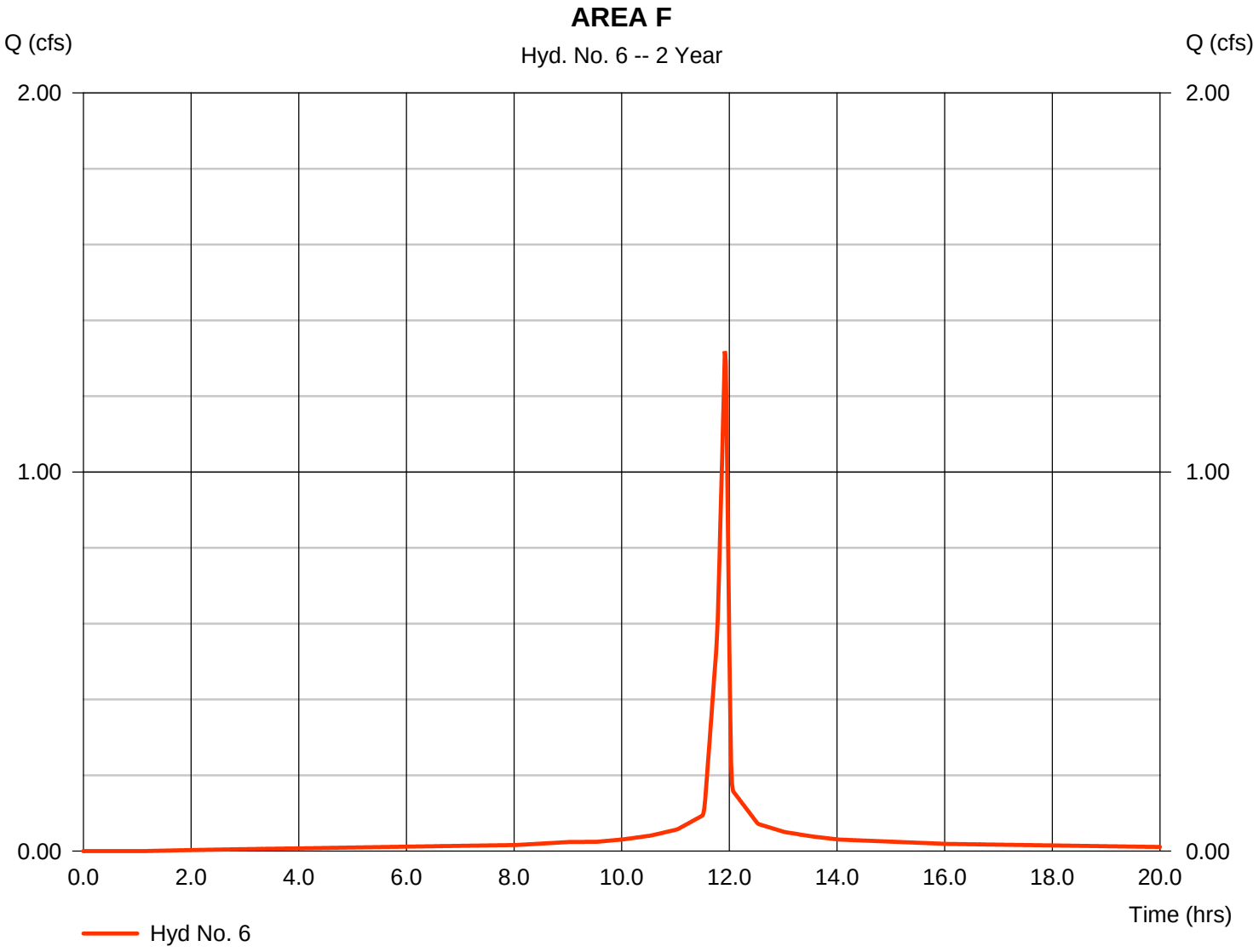


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.318 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.064 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	3.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

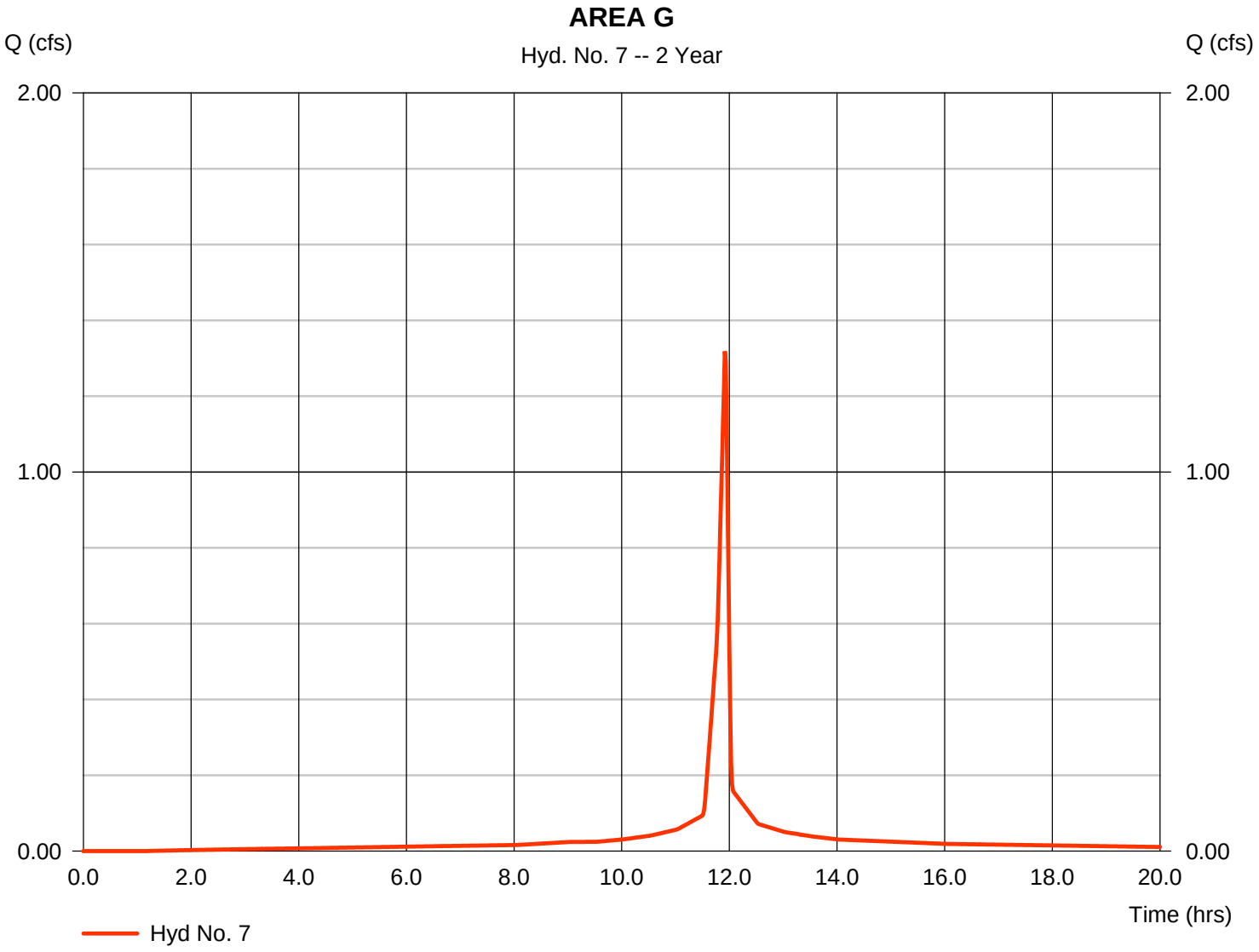


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.318 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.064 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	3.50 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

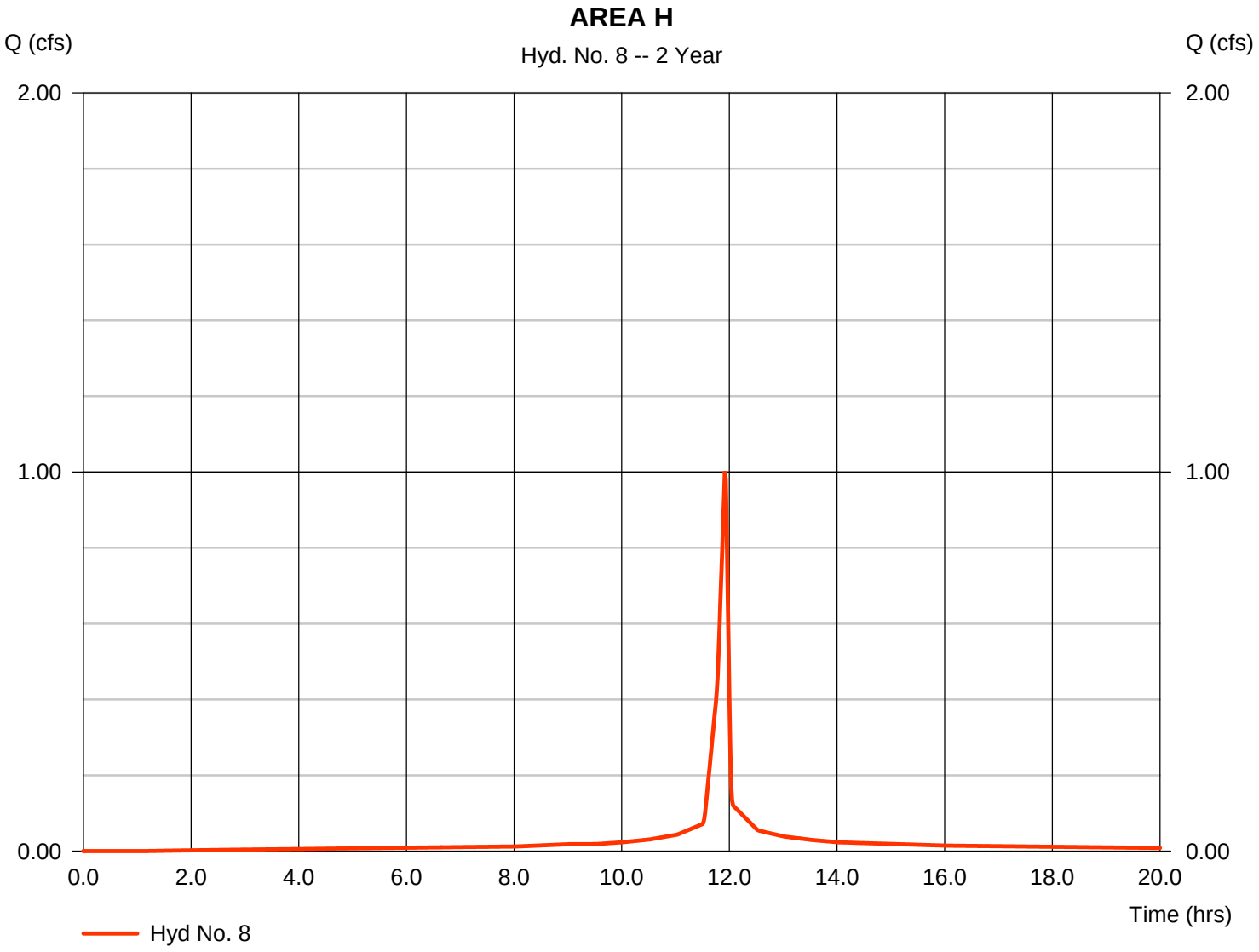


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 1.002 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.048 acft
Drainage area	= 0.190 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

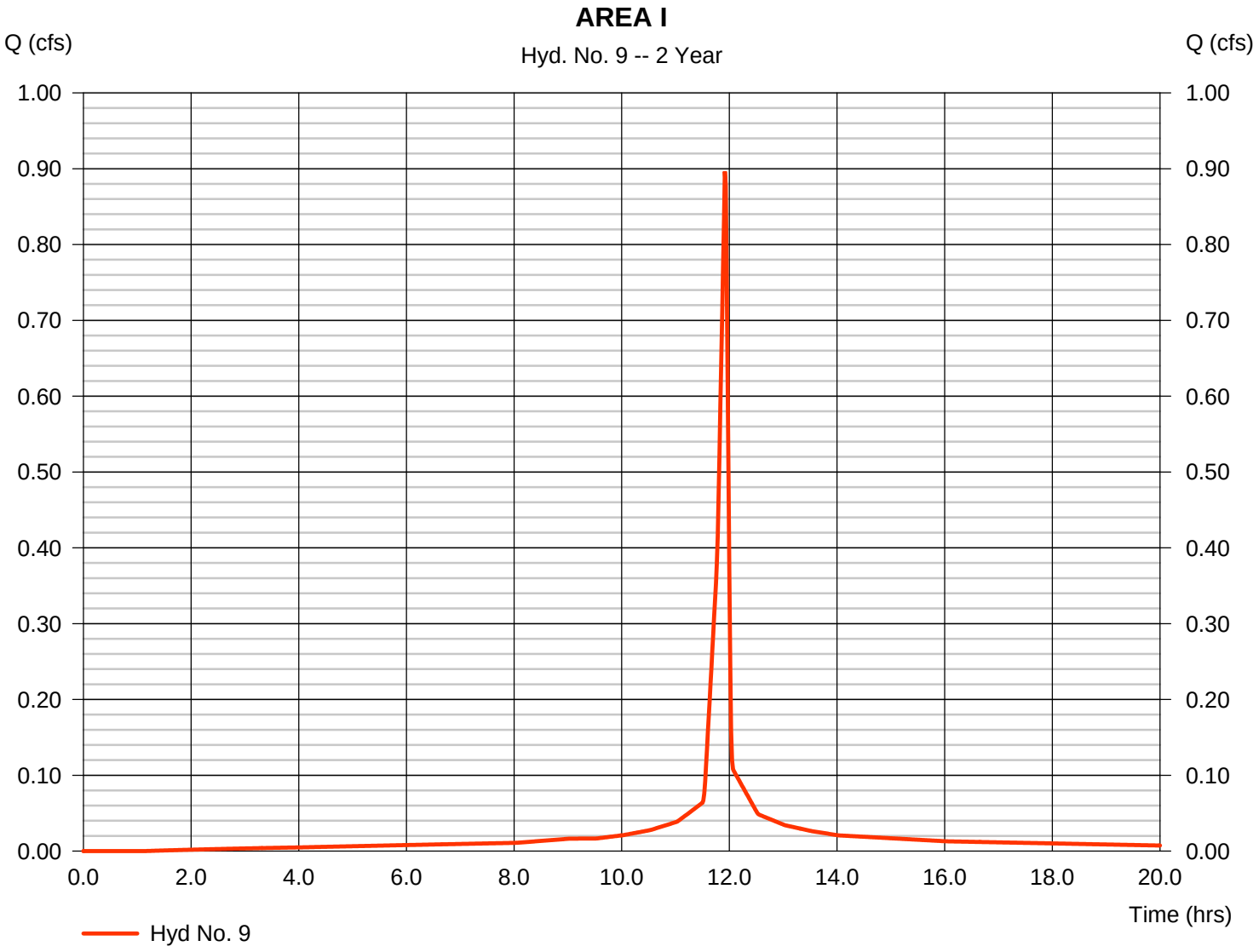


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	= SCS Runoff	Peak discharge	= 0.896 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.043 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

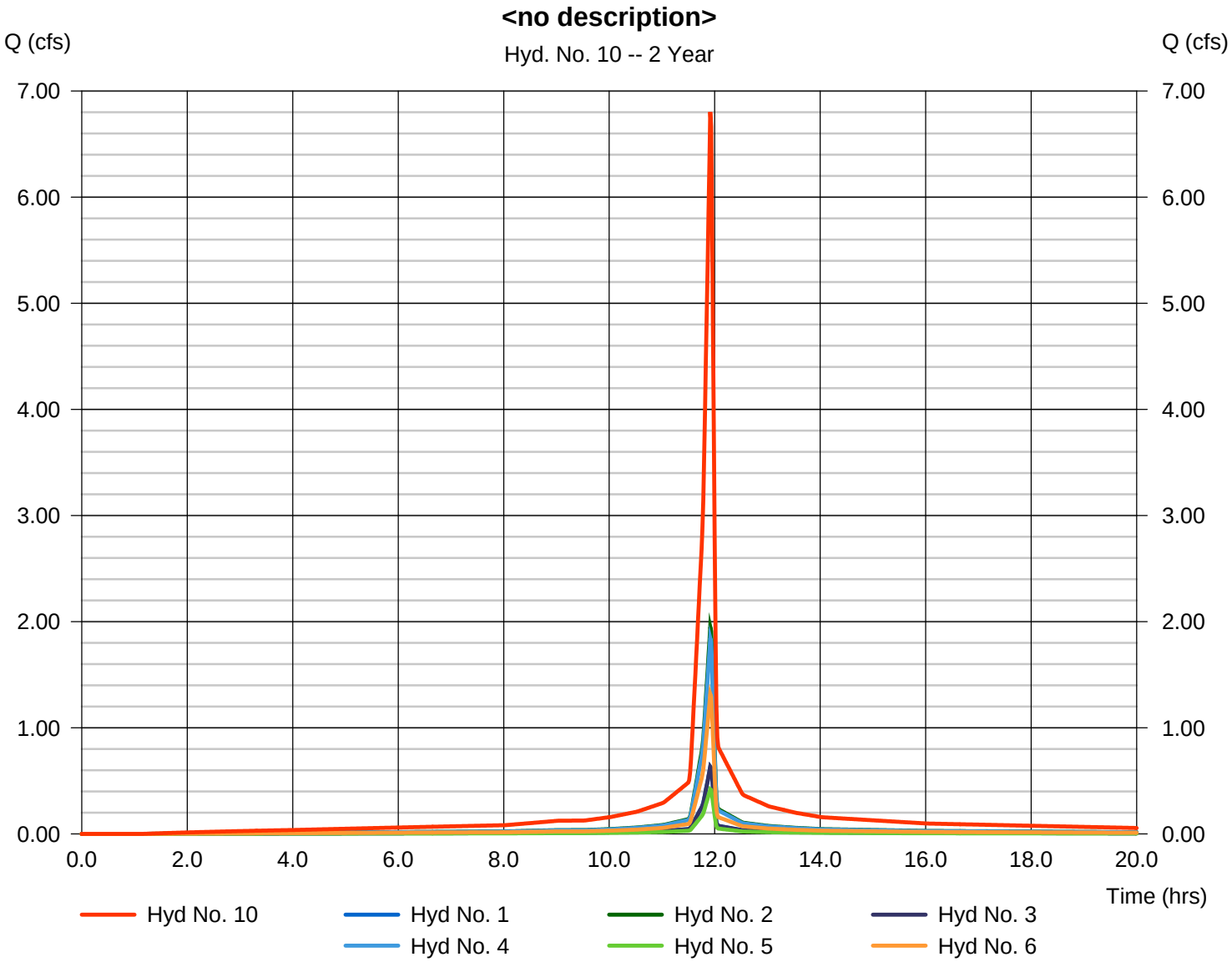


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	=	Combine	Peak discharge	=	6.802 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.329 acft
Inflow hyds.	=	1, 2, 3, 4, 5, 6	Contrib. drain. area	=	1.290 ac

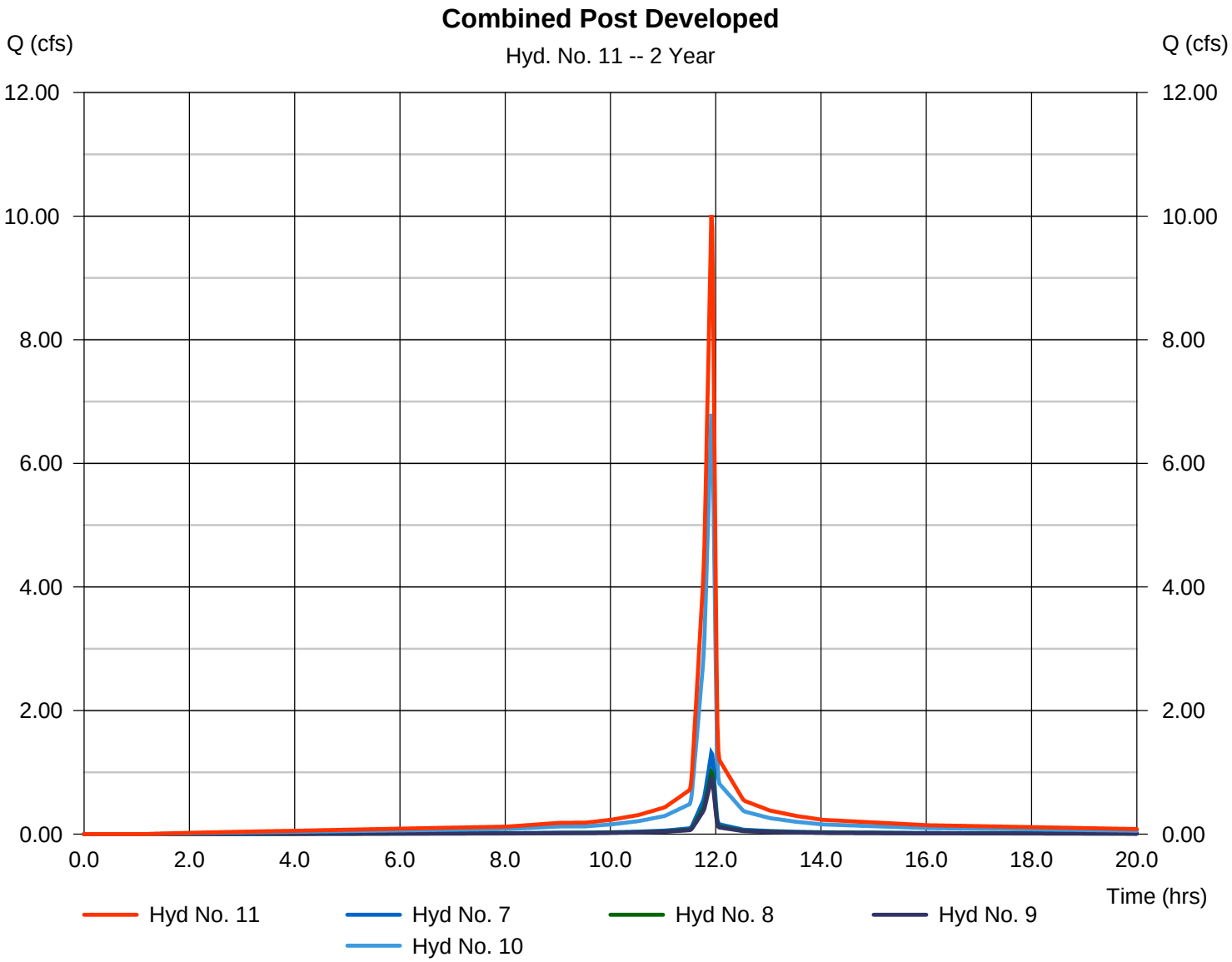


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	= Combine	Peak discharge	= 10.02 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.485 acft
Inflow hyds.	= 7, 8, 9, 10	Contrib. drain. area	= 0.610 ac

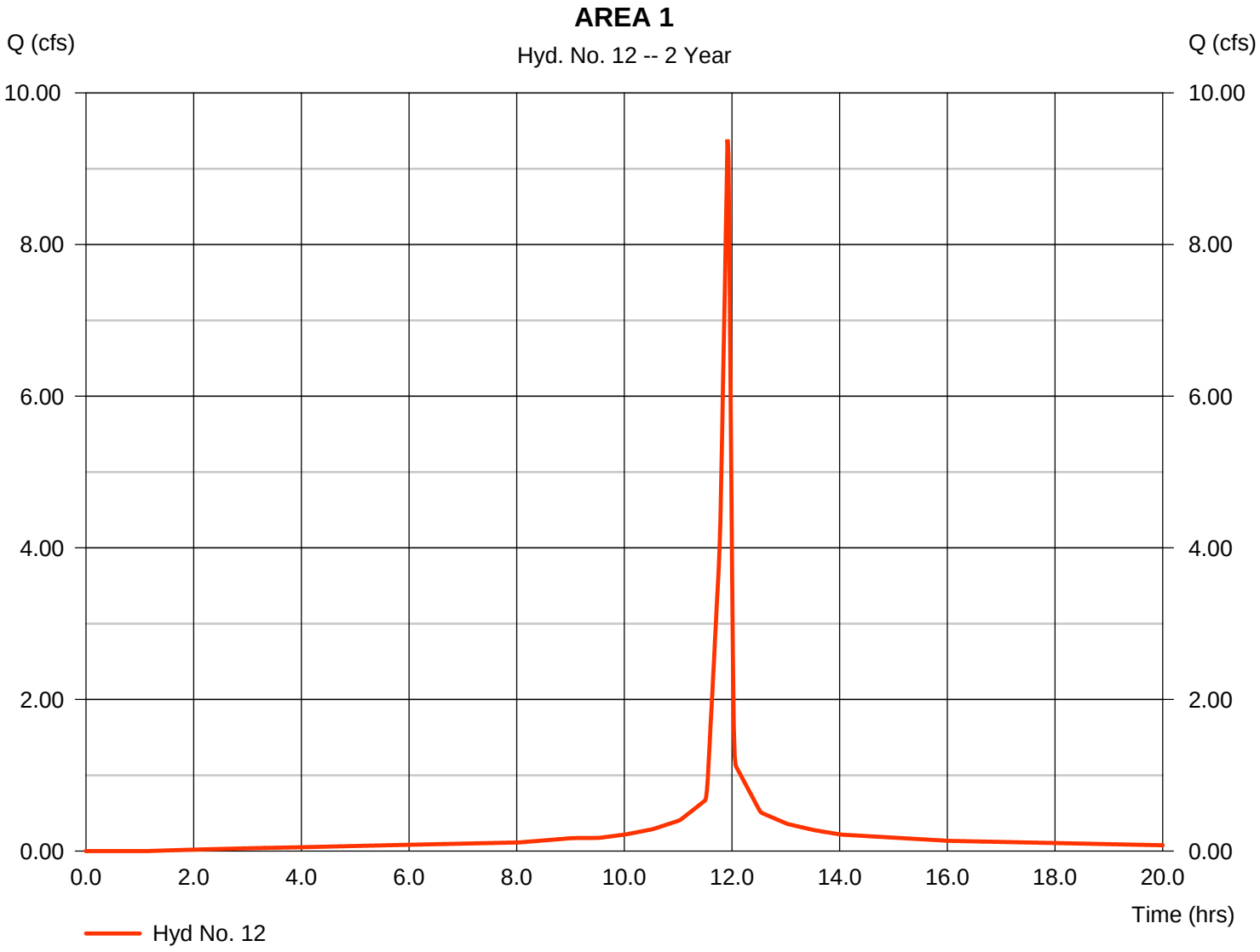


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 9.386 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.454 acft
Drainage area	= 1.780 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

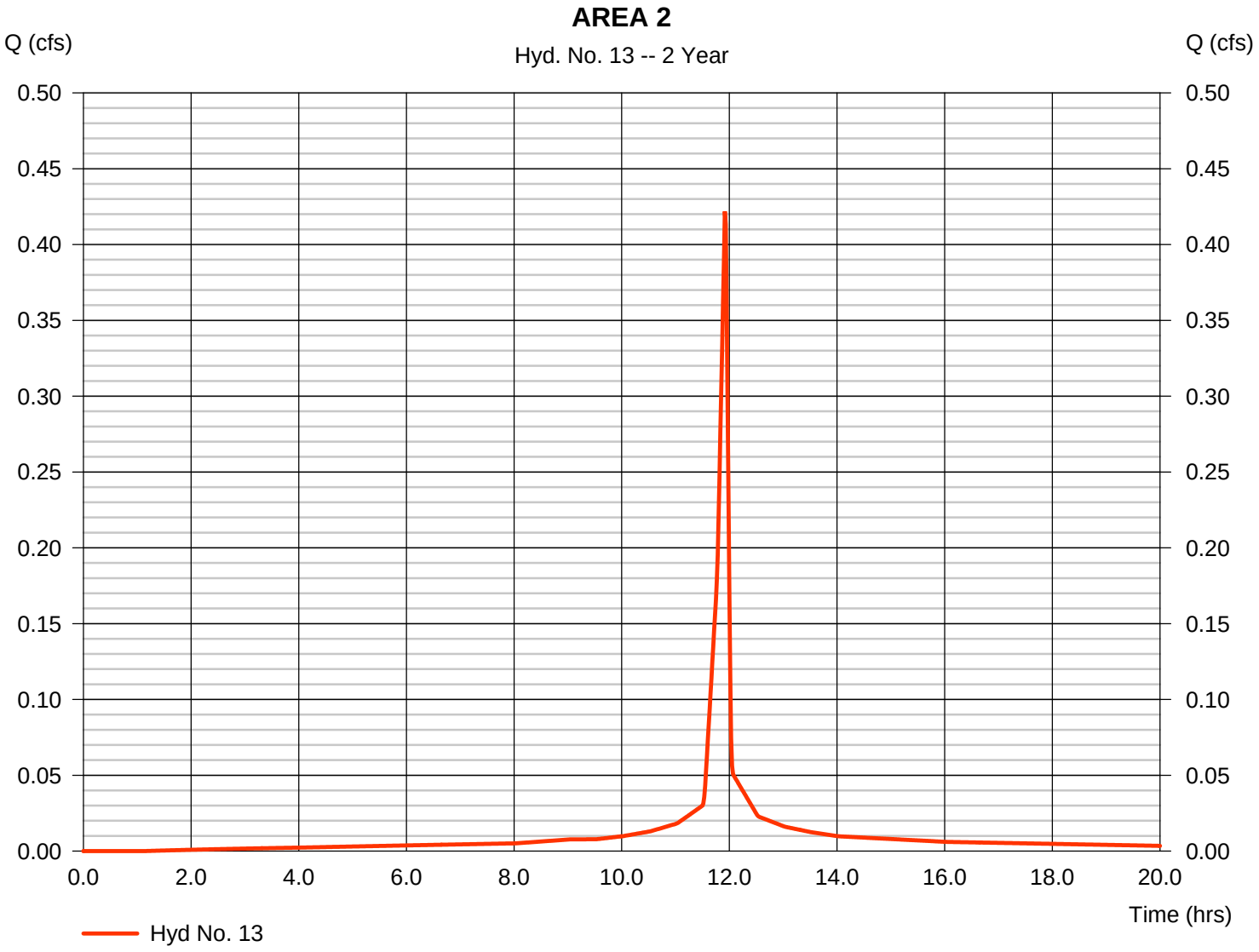


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.422 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.020 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

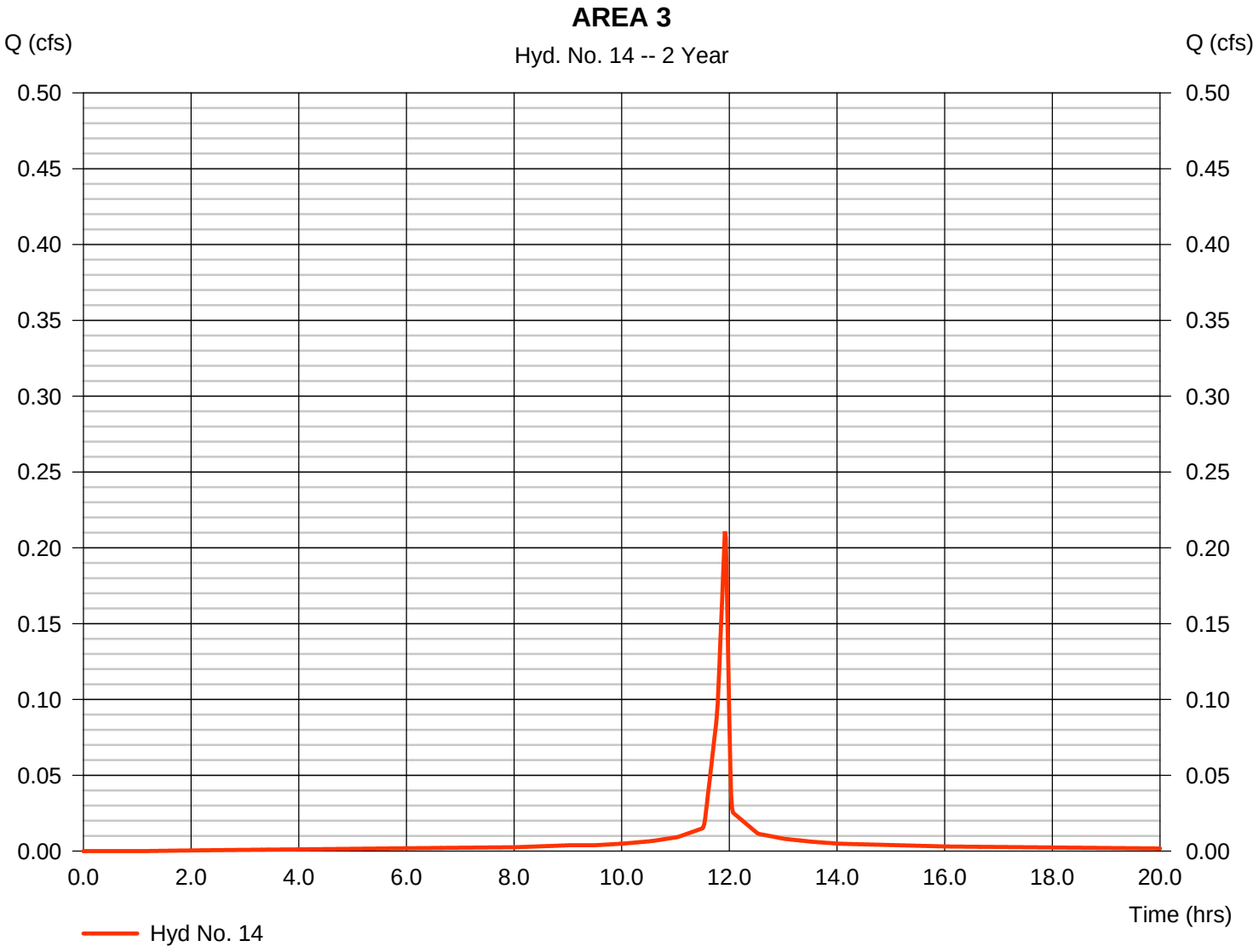


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.211 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.010 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

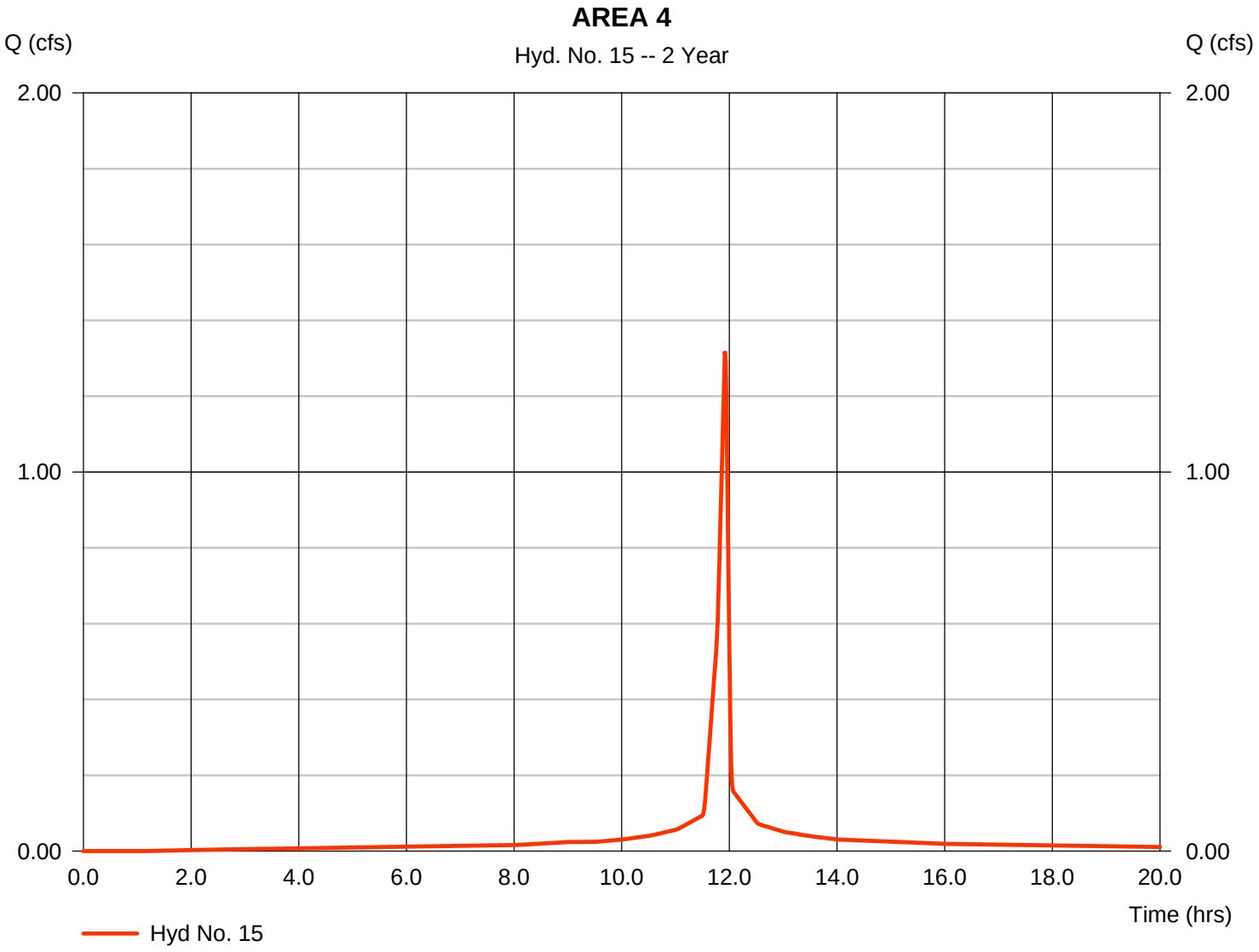


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 1.318 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.064 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

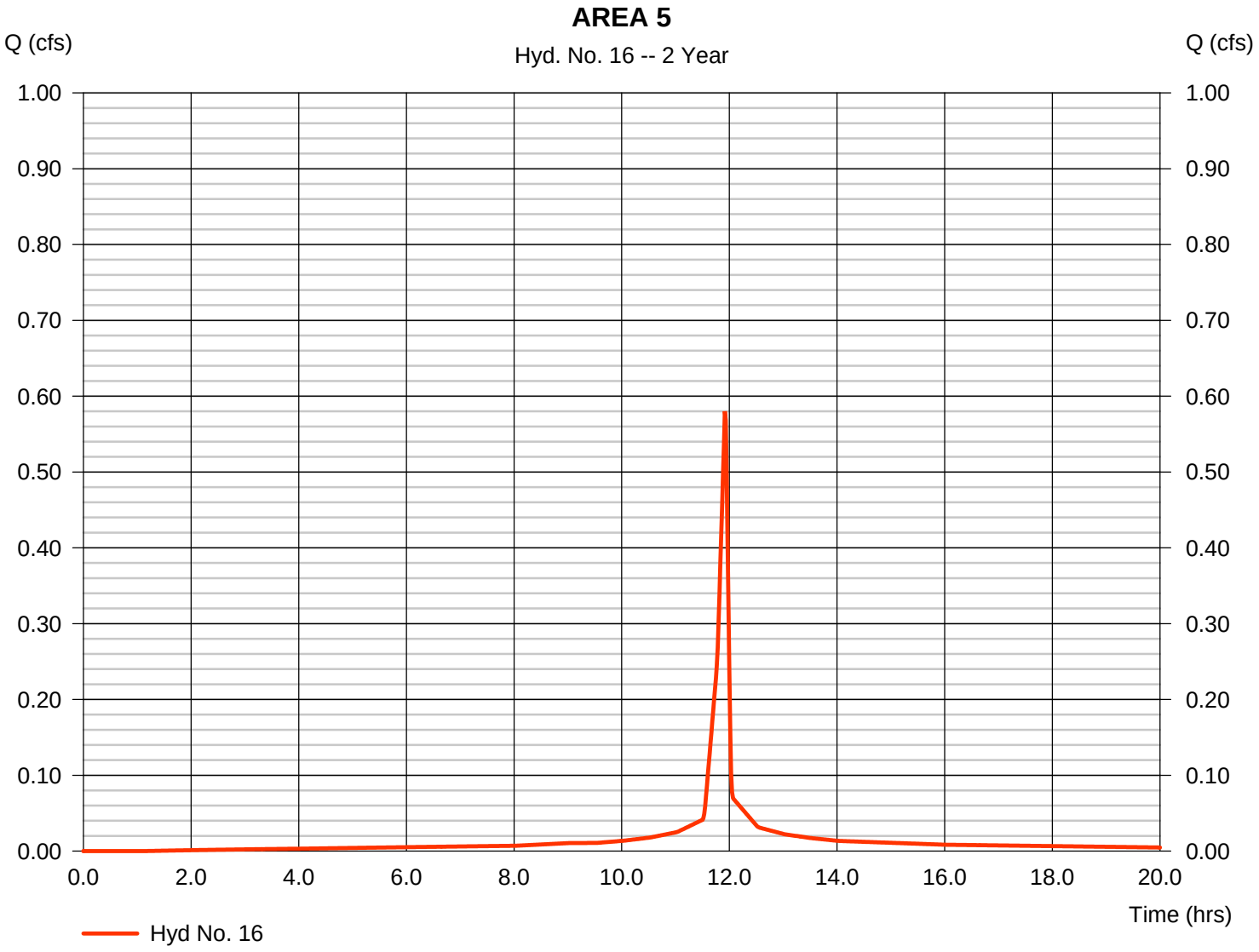


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 0.580 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.028 acft
Drainage area	= 0.110 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

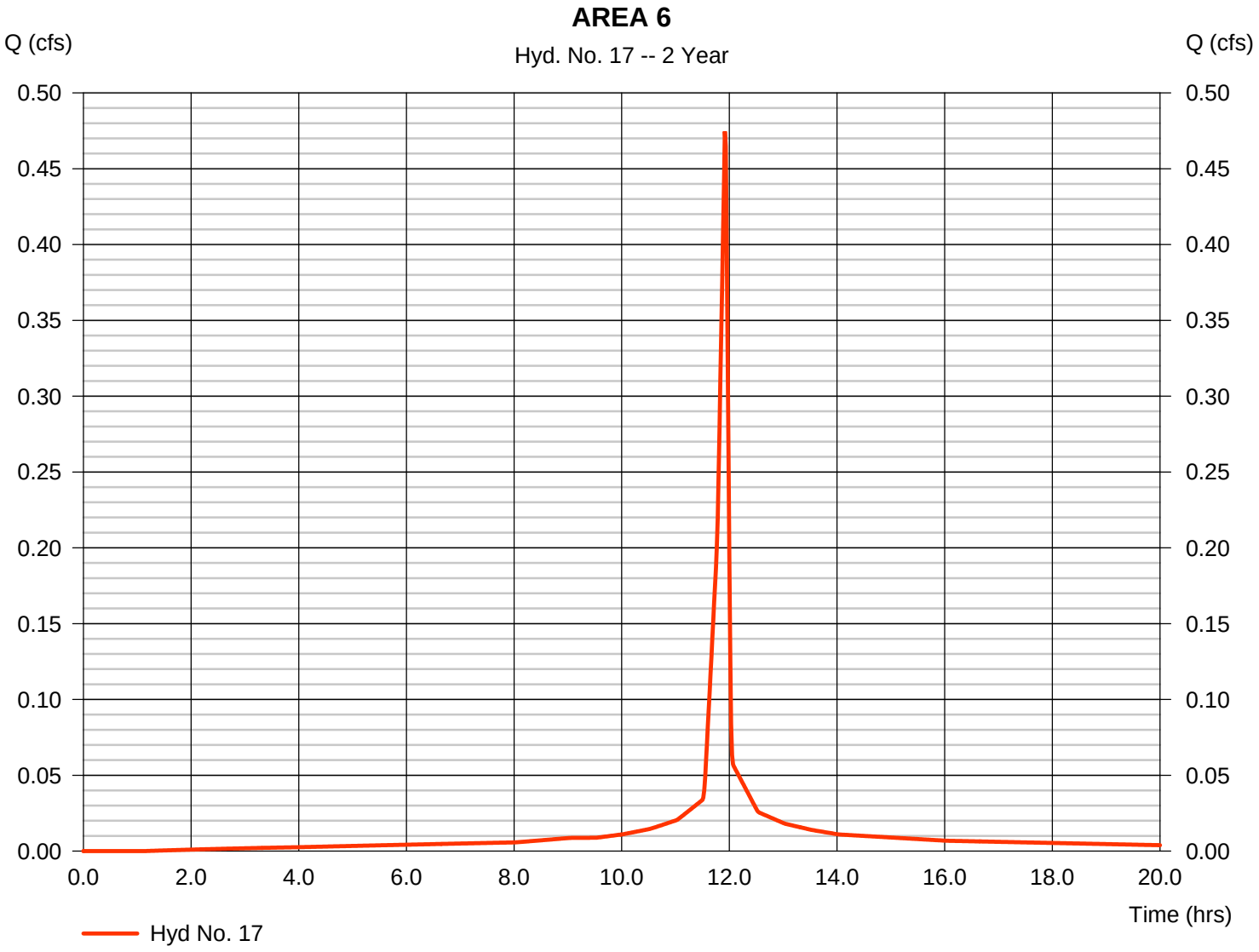


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.475 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.023 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

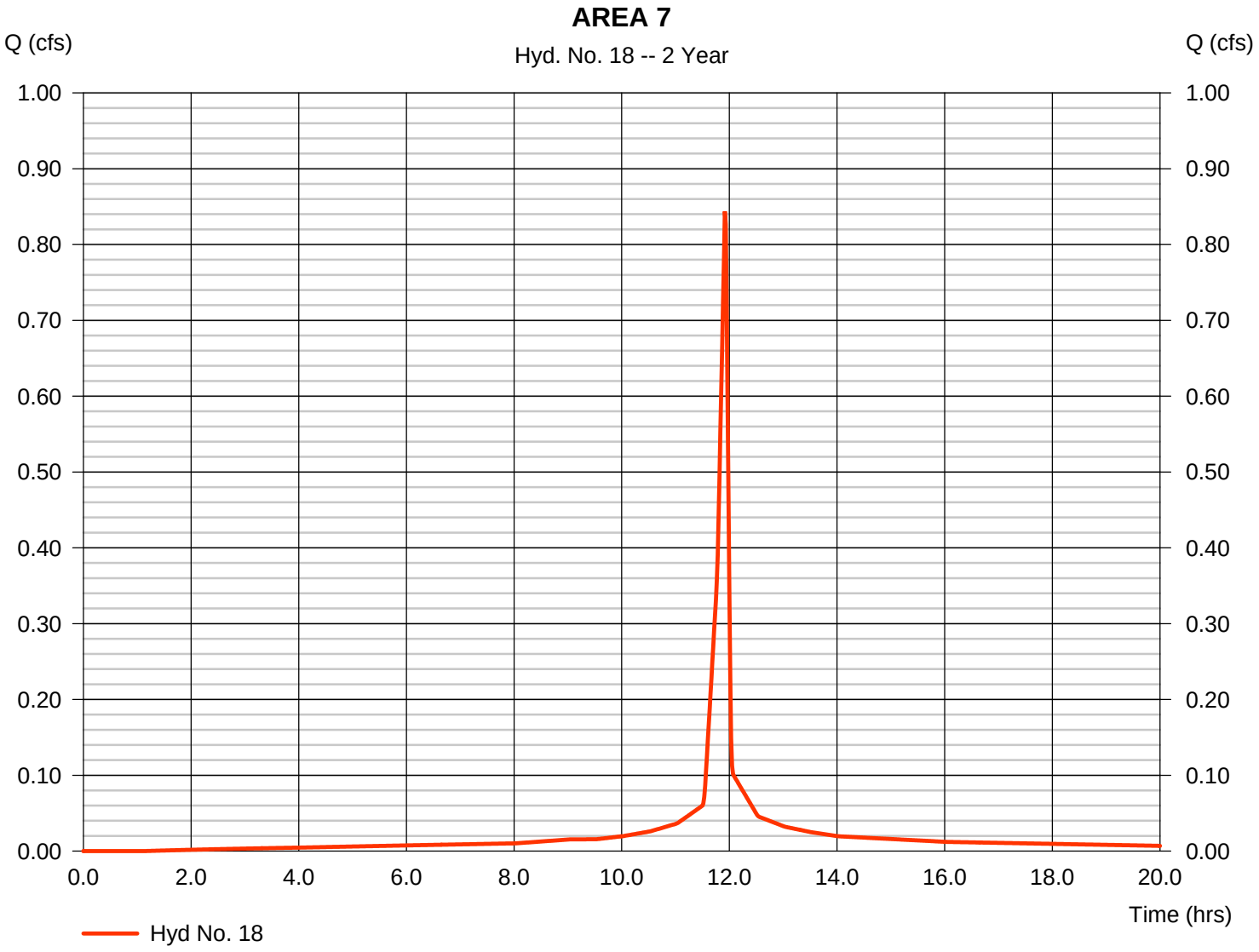


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 0.844 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.041 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

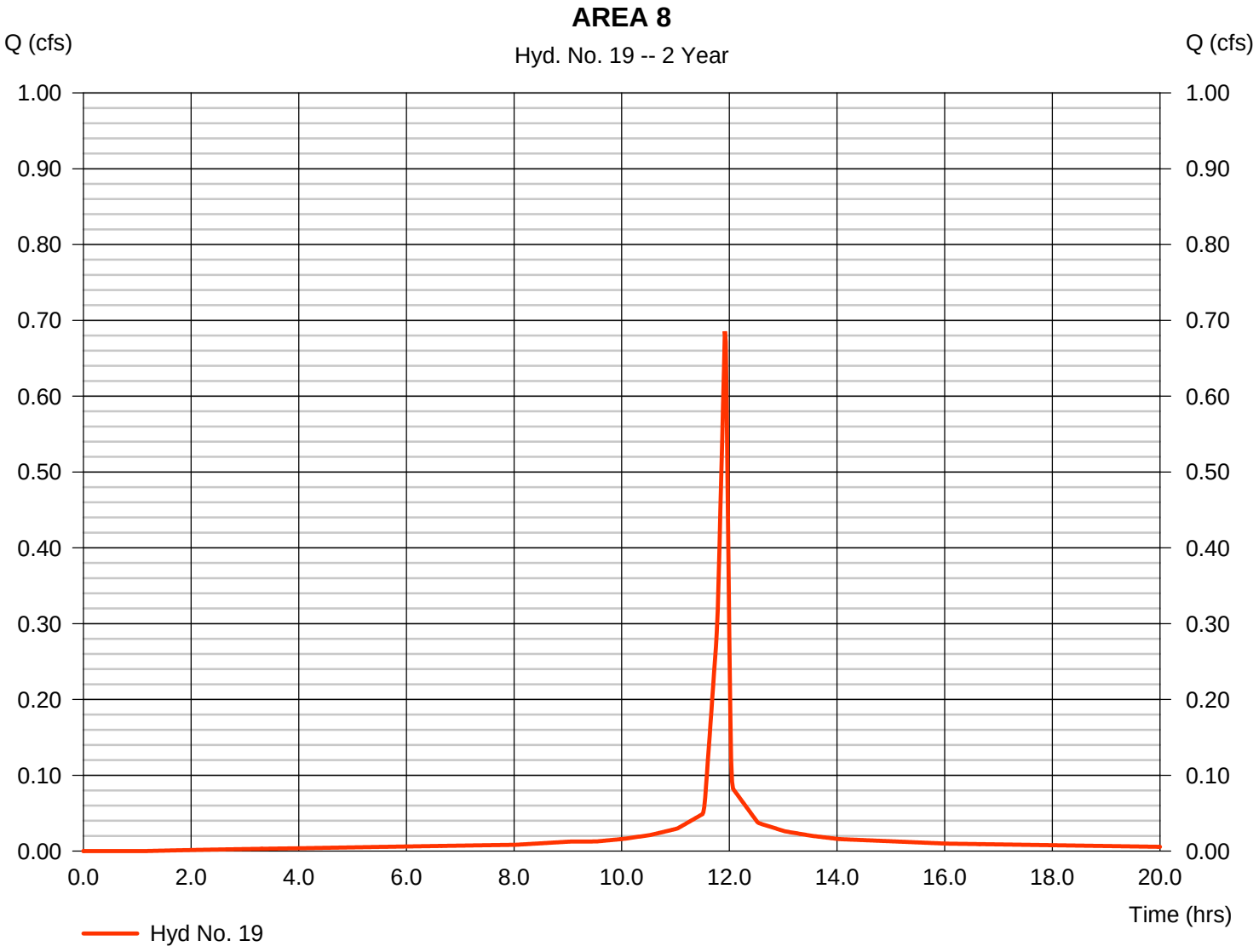


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 0.685 cfs
Storm frequency	= 2 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.033 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 3.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

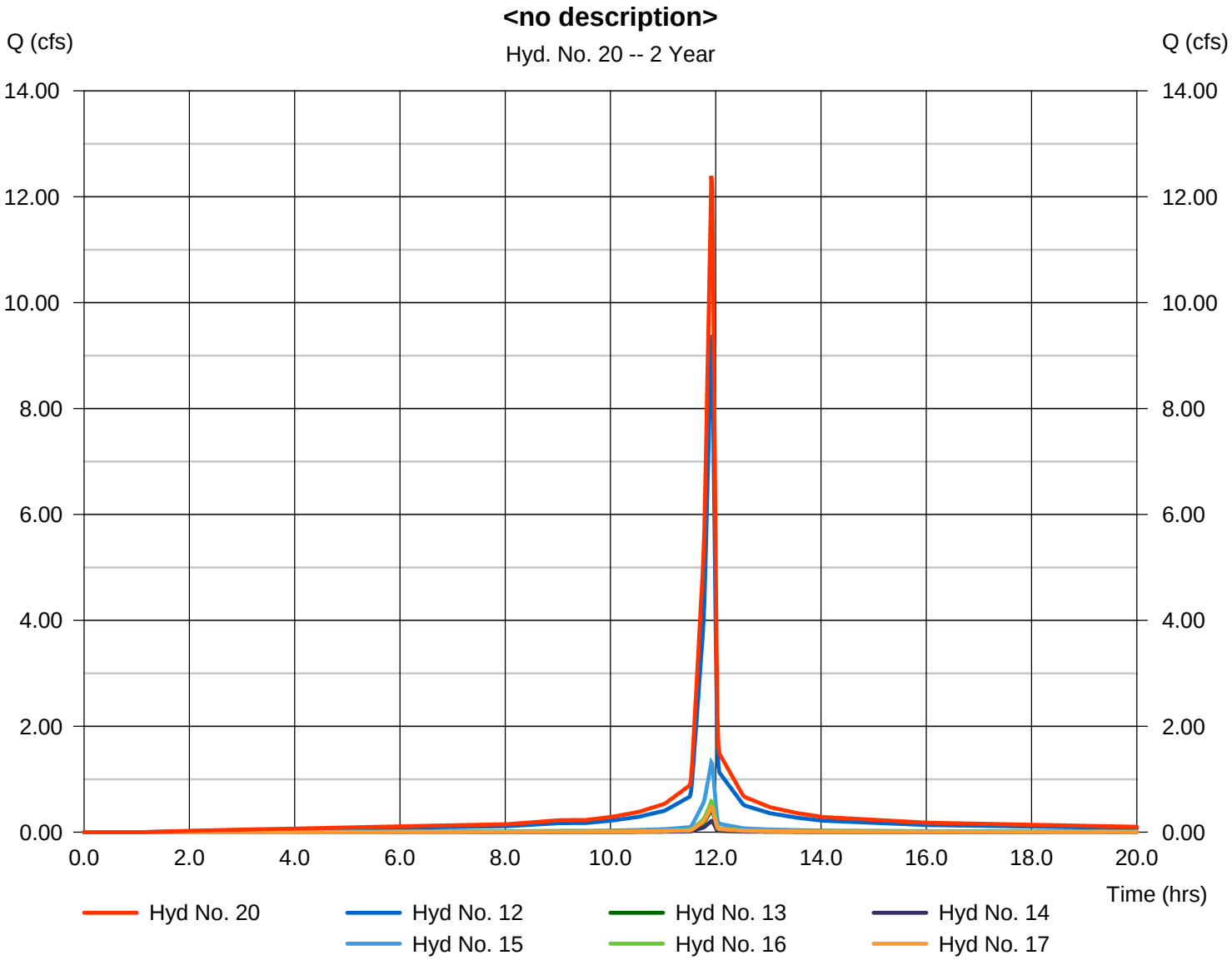


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	=	Combine	Peak discharge	=	12.39 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.600 acft
Inflow hyds.	=	12, 13, 14, 15, 16, 17	Contrib. drain. area	=	2.350 ac

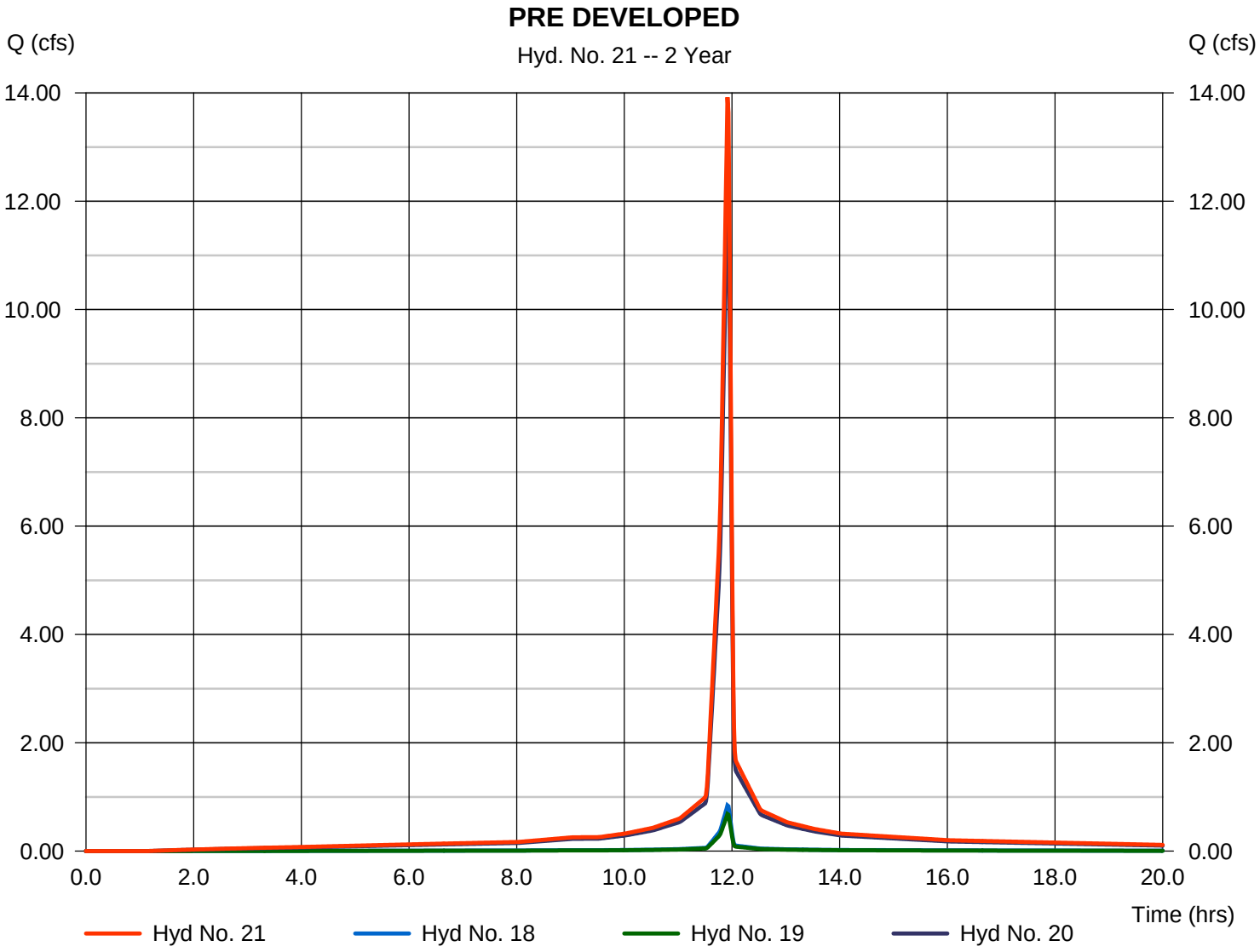


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	13.92 cfs
Storm frequency	=	2 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.674 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

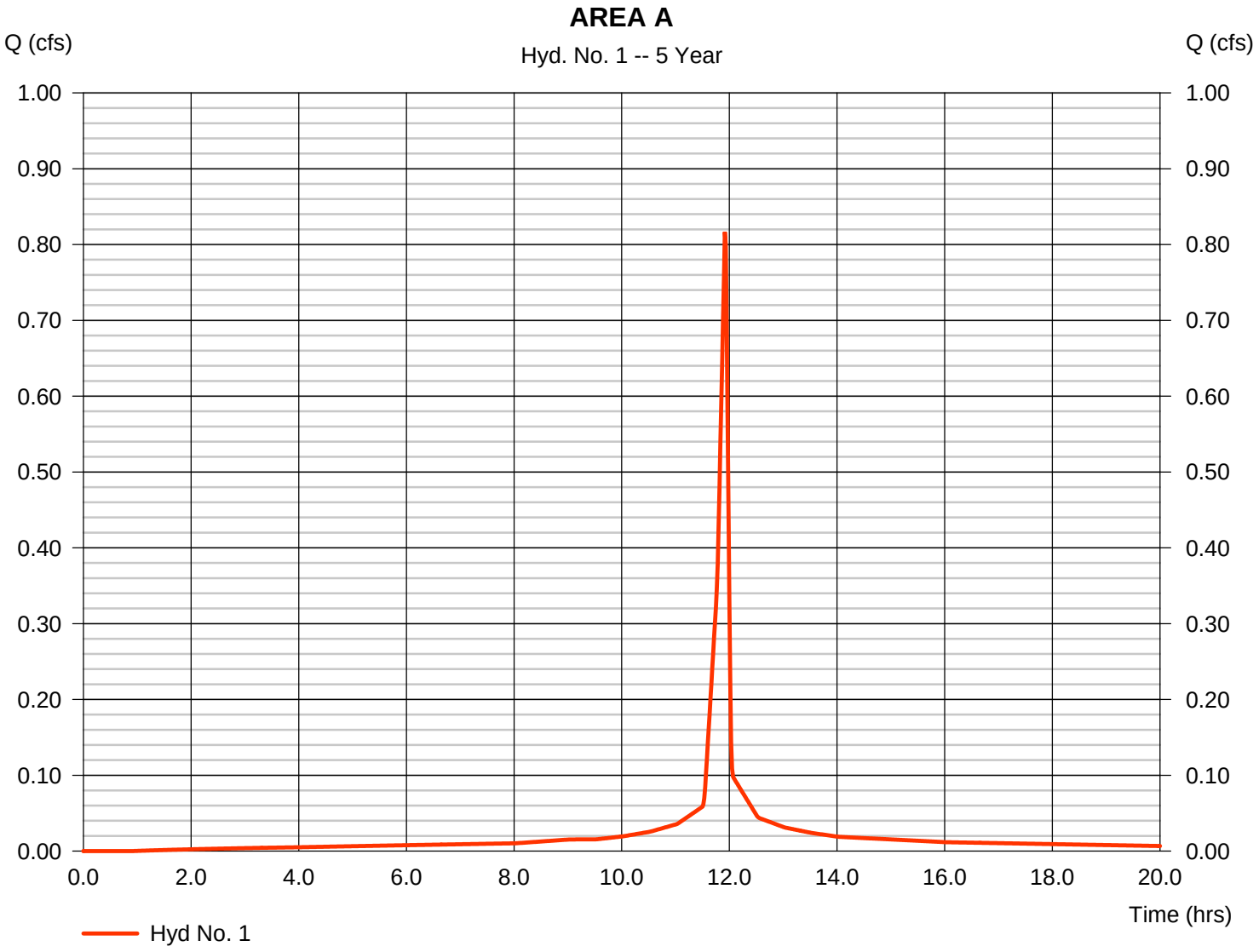
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	0.817	1	715	0.040	------	------	------	AREA A
2	SCS Runoff	2.518	1	715	0.123	------	------	------	AREA B
3	SCS Runoff	0.817	1	715	0.040	------	------	------	AREA C
4	SCS Runoff	2.381	1	715	0.117	------	------	------	AREA D
5	SCS Runoff	0.544	1	715	0.027	------	------	------	AREA E
6	SCS Runoff	1.701	1	715	0.083	------	------	------	AREA F
7	SCS Runoff	1.701	1	715	0.083	------	------	------	AREA G
8	SCS Runoff	1.293	1	715	0.063	------	------	------	AREA H
9	SCS Runoff	1.157	1	715	0.057	------	------	------	AREA I
10	Combine	8.777	1	715	0.430	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	------	------	<no description>
11	Combine	12.93	1	715	0.633	------	------	------	Combined Post Developed
12	SCS Runoff	12.11	1	715	0.593	------	------	------	AREA 1
13	SCS Runoff	0.544	1	715	0.027	------	------	------	AREA 2
14	SCS Runoff	0.272	1	715	0.013	------	------	------	AREA 3
15	SCS Runoff	1.701	1	715	0.083	------	------	------	AREA 4
16	SCS Runoff	0.748	1	715	0.037	------	------	------	AREA 5
17	SCS Runoff	0.612	1	715	0.030	------	------	------	AREA 6
18	SCS Runoff	1.089	1	715	0.053	------	------	------	AREA 7
19	SCS Runoff	0.885	1	715	0.043	------	------	------	AREA 8
20	Combine	15.99	1	715	0.783	12, 13, 14, 15, 16, 17, 18, 19, 20	------	------	<no description>
21	Combine	17.96	1	715	0.879	------	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.817 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.040 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

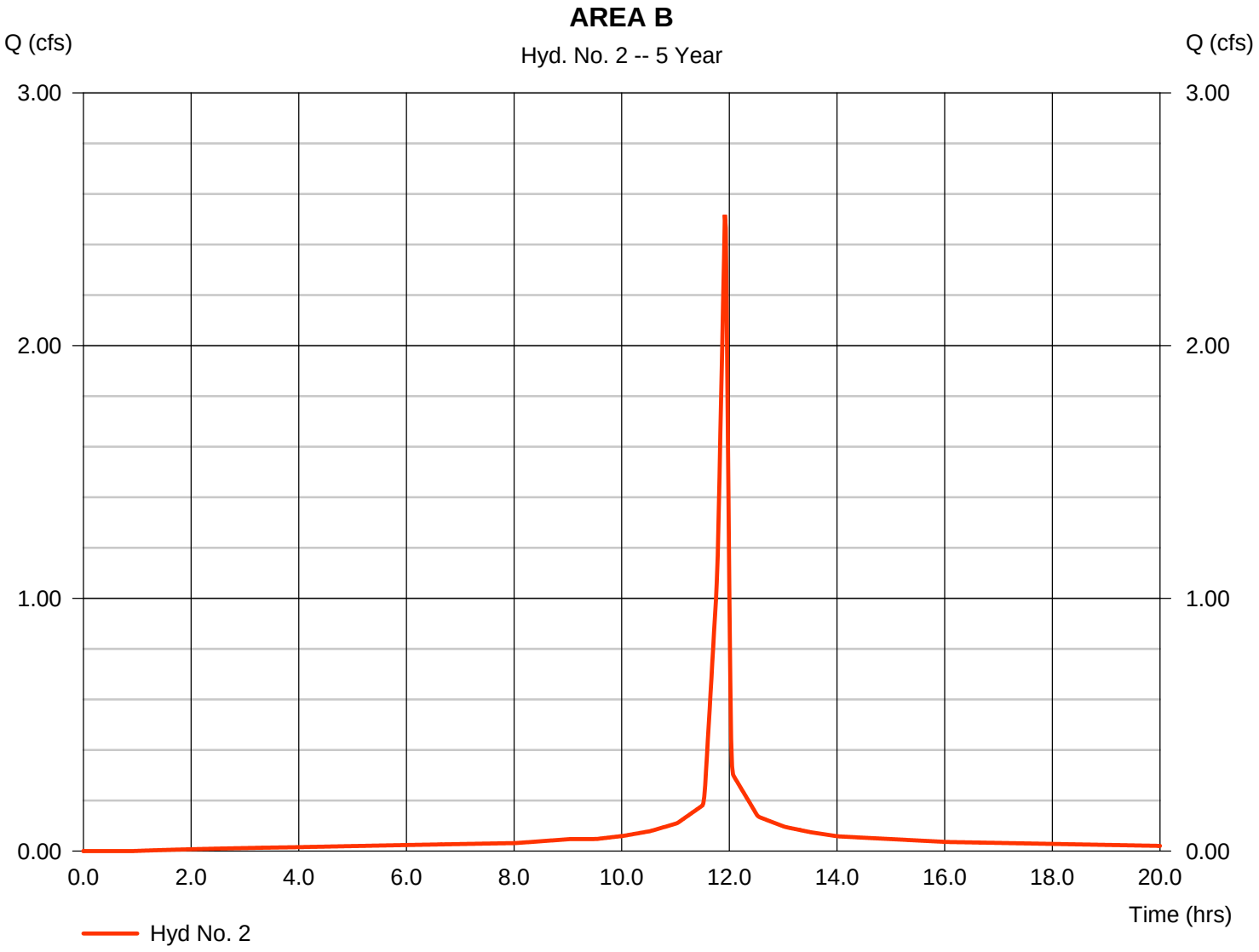


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 2.518 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.123 acft
Drainage area	= 0.370 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

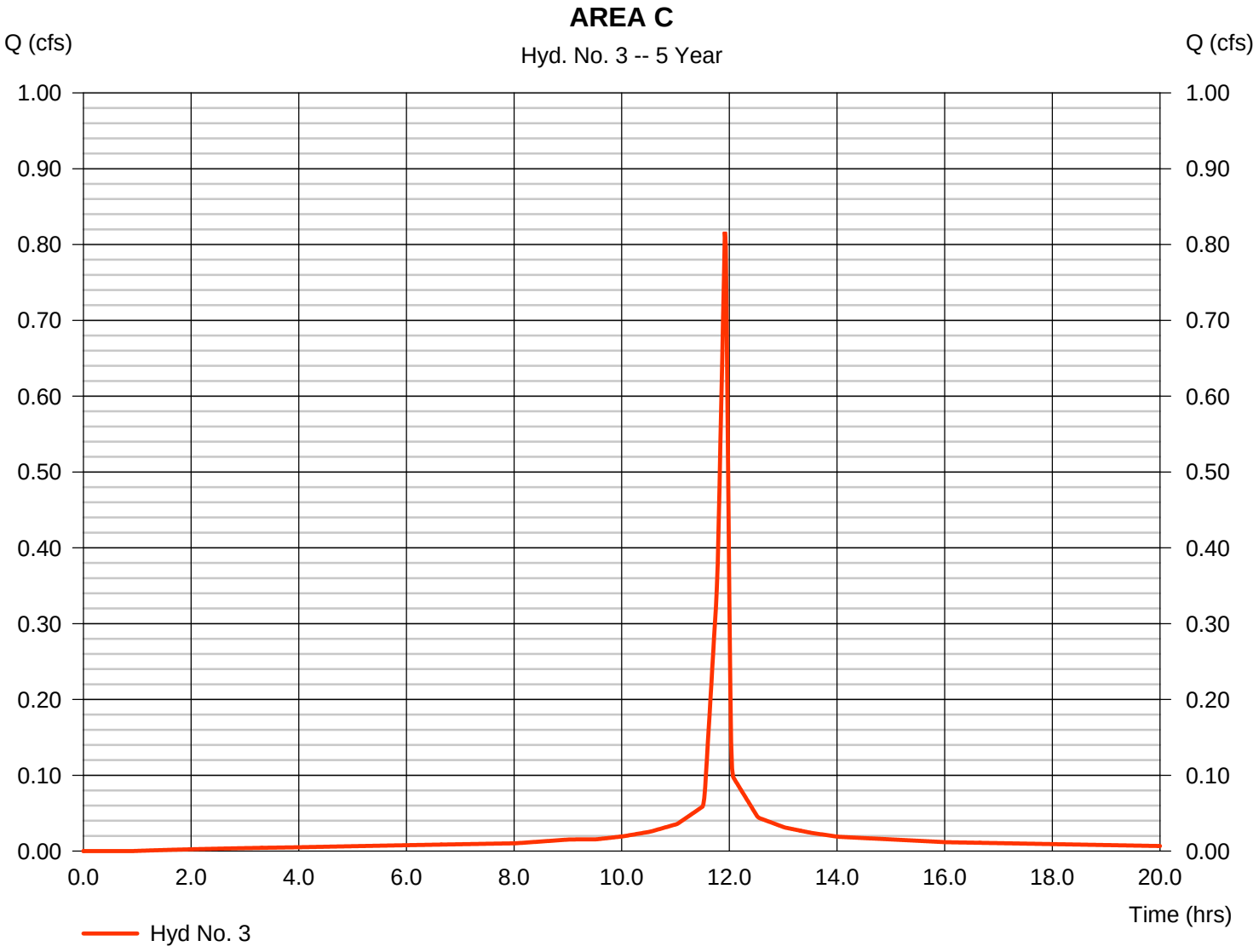


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	= SCS Runoff	Peak discharge	= 0.817 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.040 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

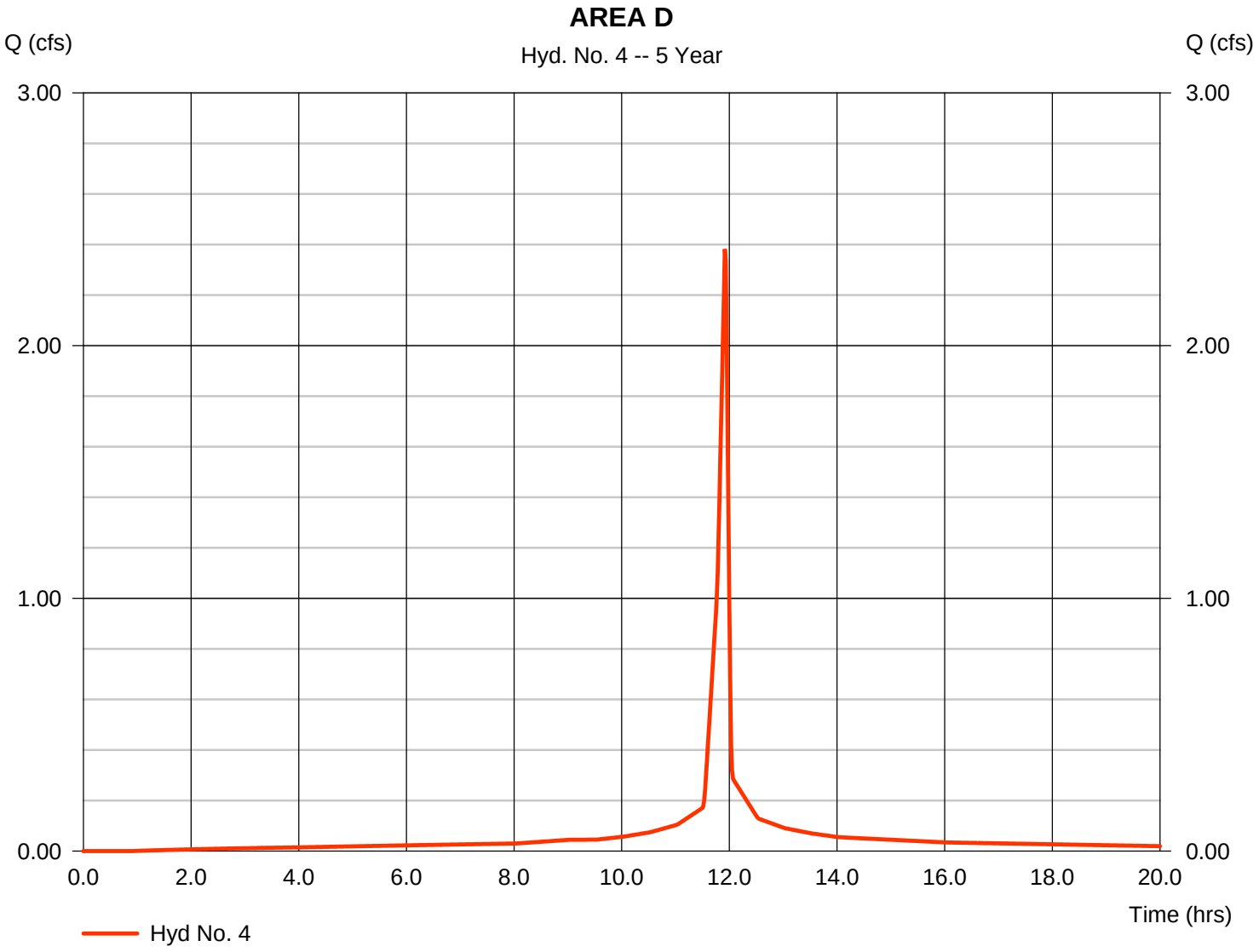


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	= SCS Runoff	Peak discharge	= 2.381 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.117 acft
Drainage area	= 0.350 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 1.70 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

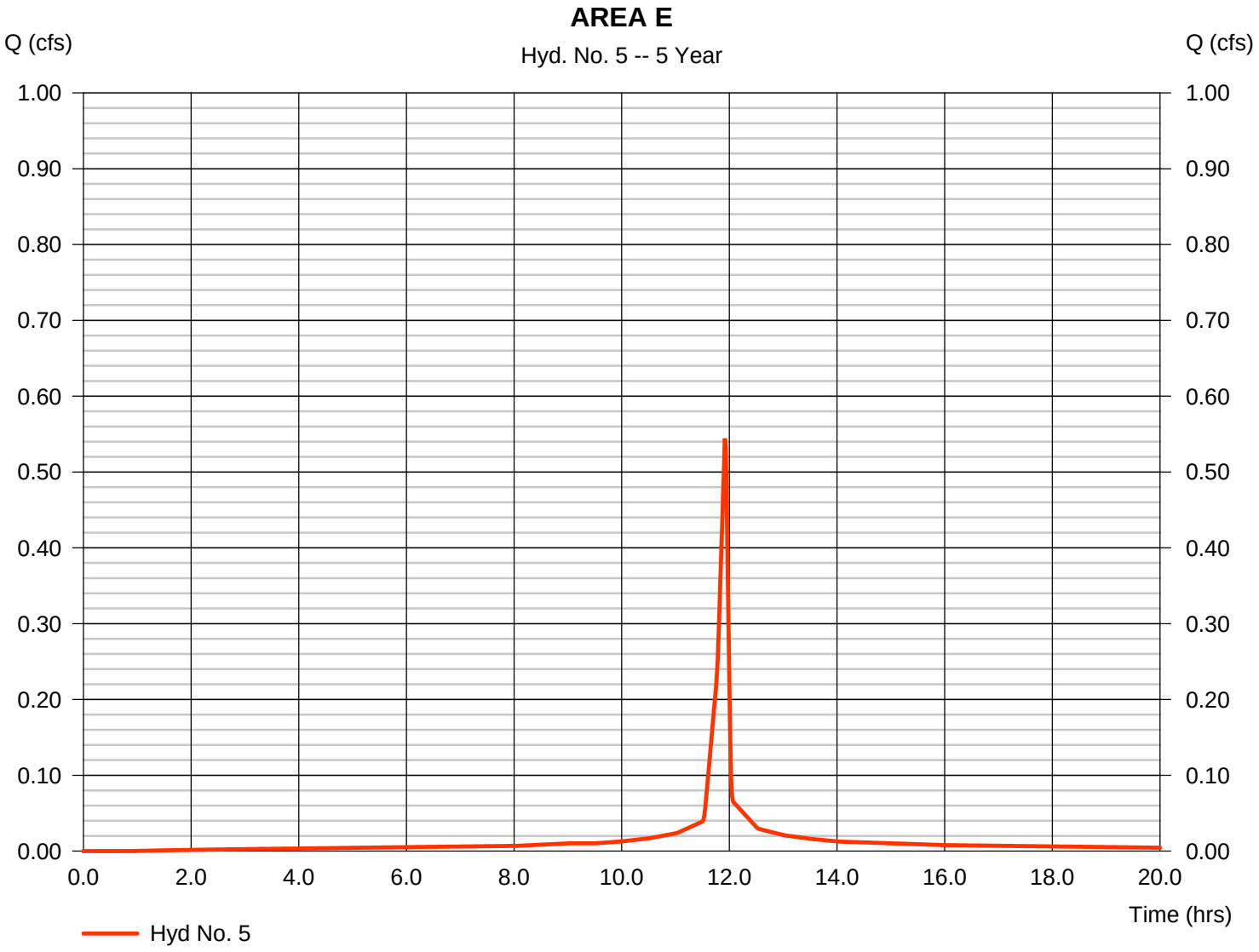


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 0.544 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.027 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

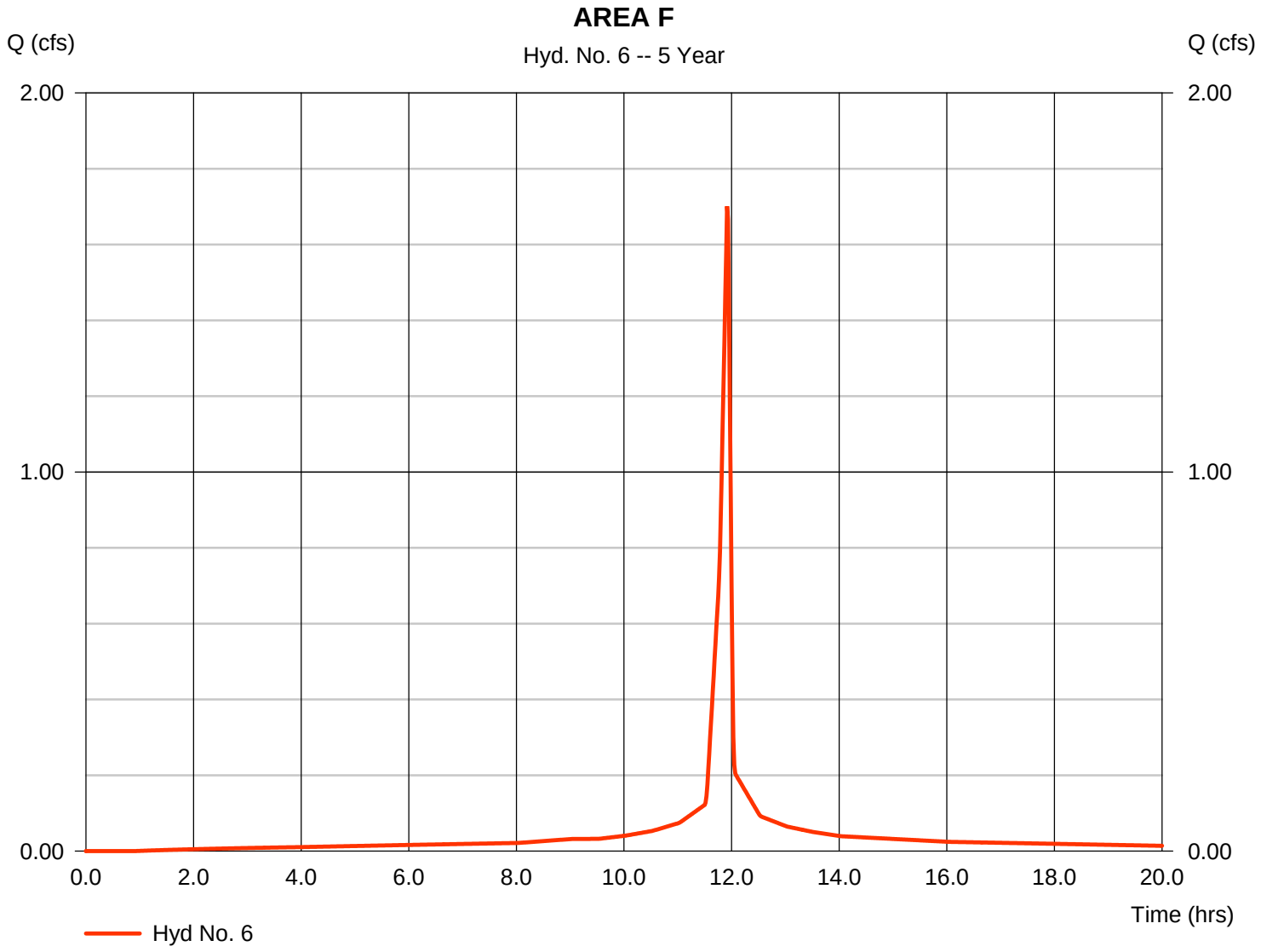


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	= SCS Runoff	Peak discharge	= 1.701 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.083 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

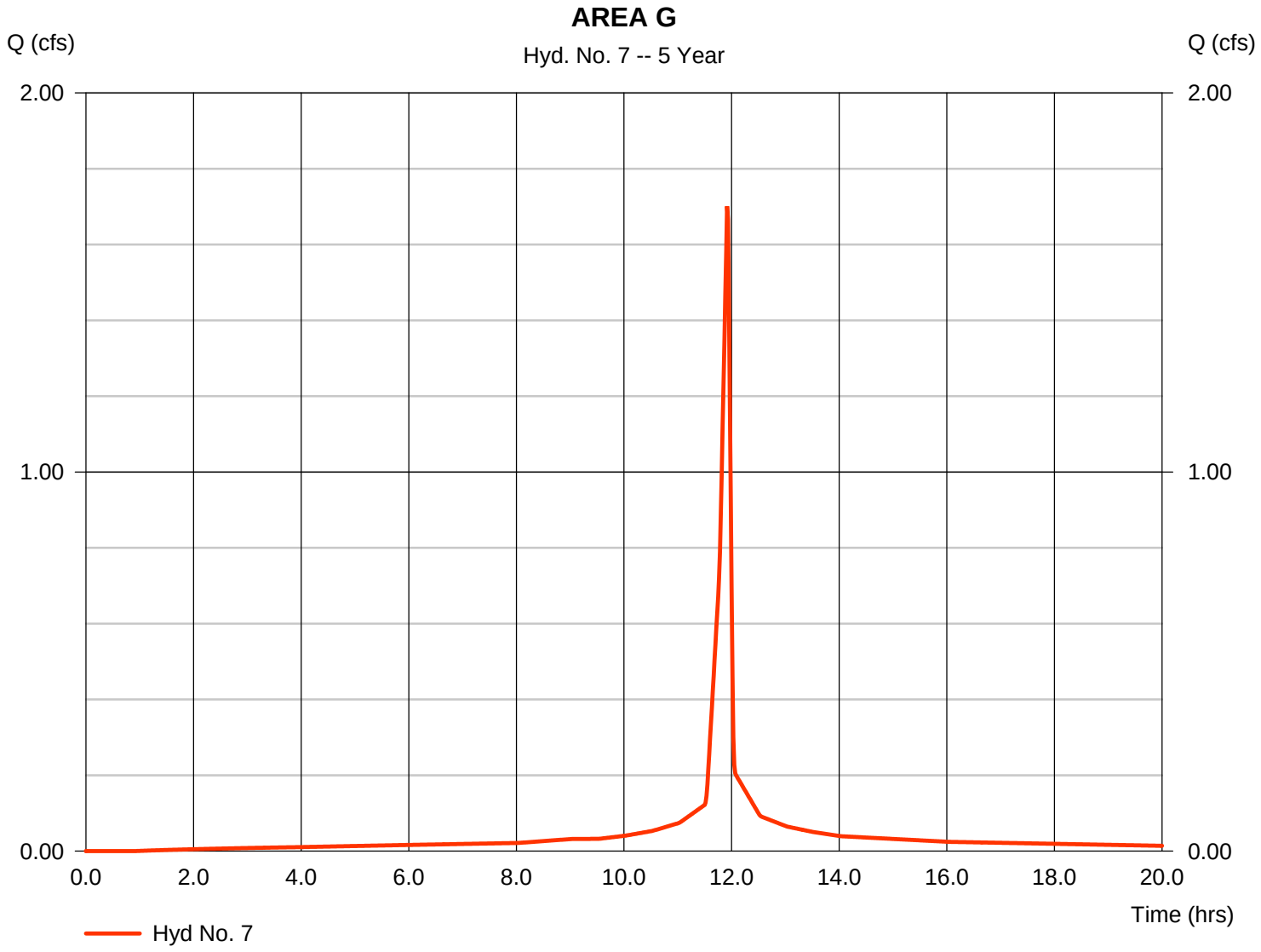


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 1.701 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.083 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

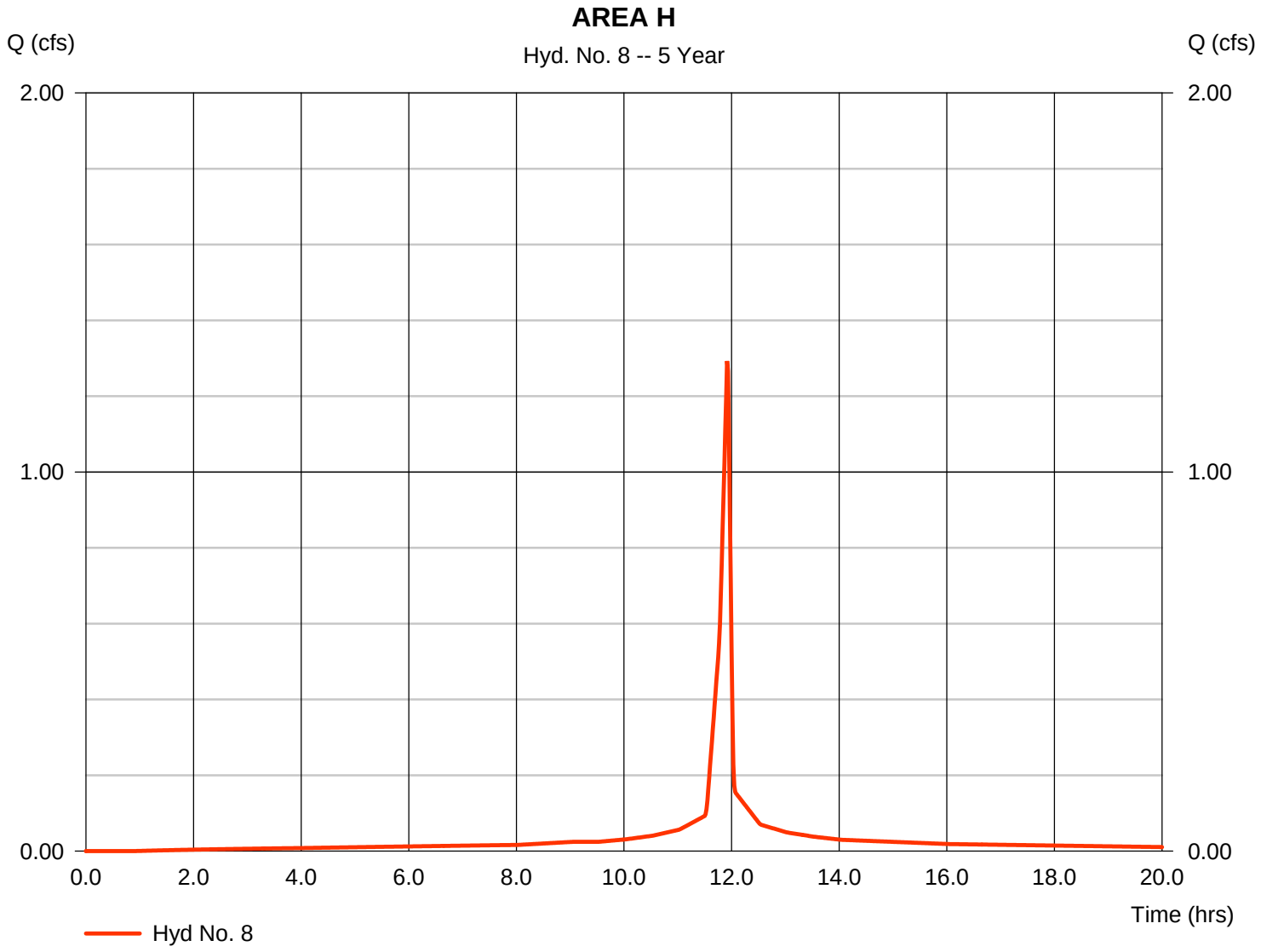


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	= SCS Runoff	Peak discharge	= 1.293 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.063 acft
Drainage area	= 0.190 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

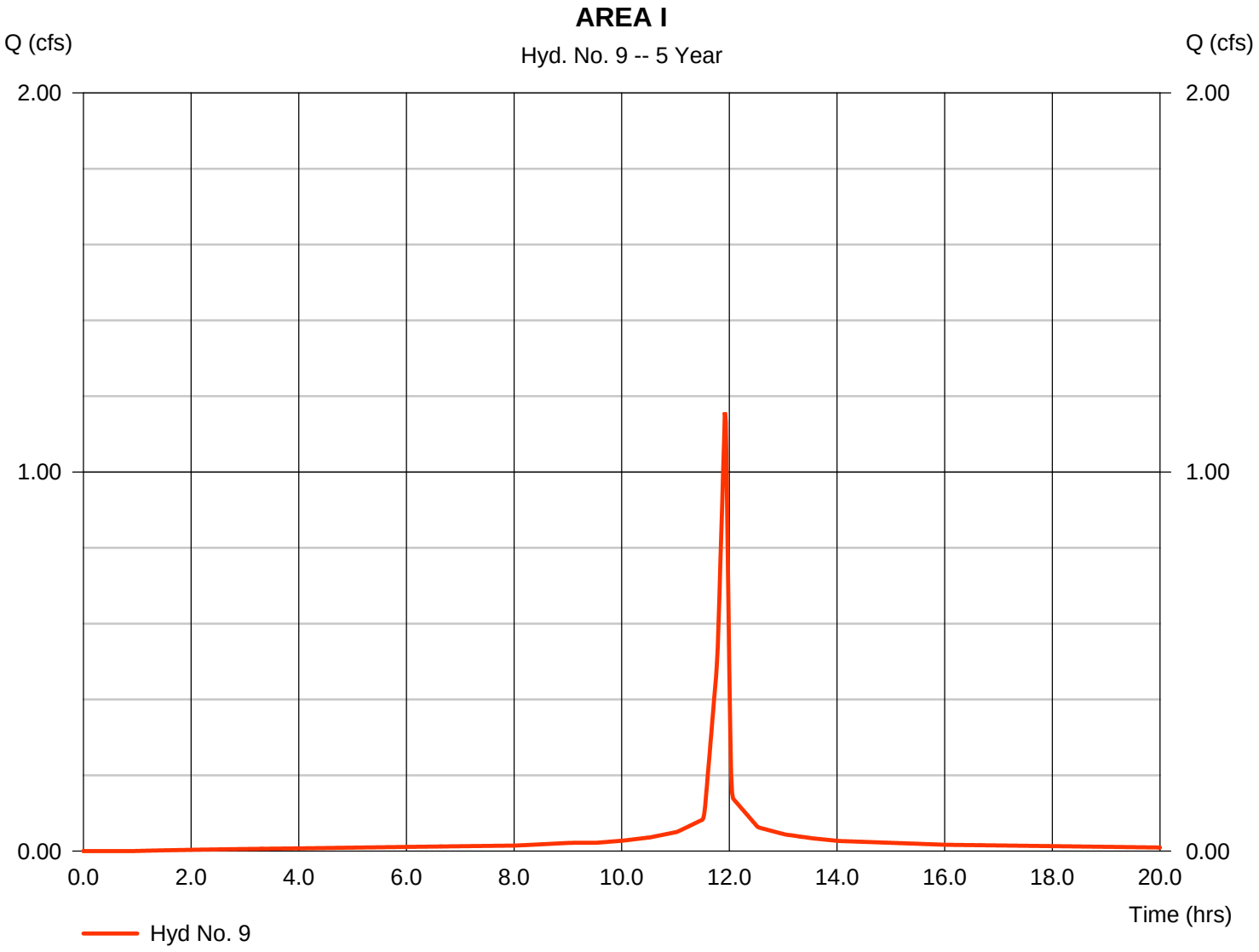


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	= SCS Runoff	Peak discharge	= 1.157 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.057 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

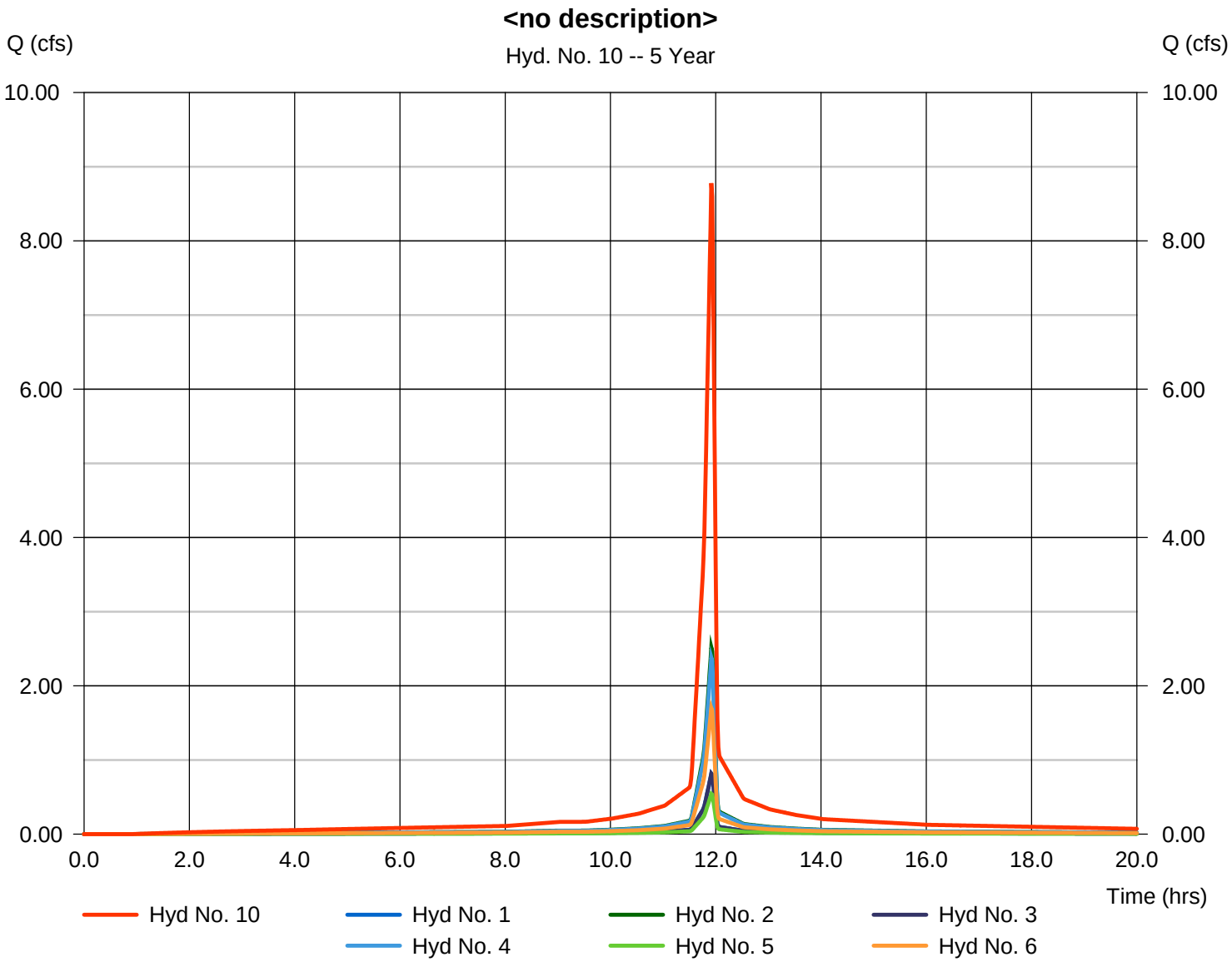


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	=	Combine	Peak discharge	=	8.777 cfs
Storm frequency	=	5 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.430 acft
Inflow hyds.	=	1, 2, 3, 4, 5, 6	Contrib. drain. area	=	1.290 ac

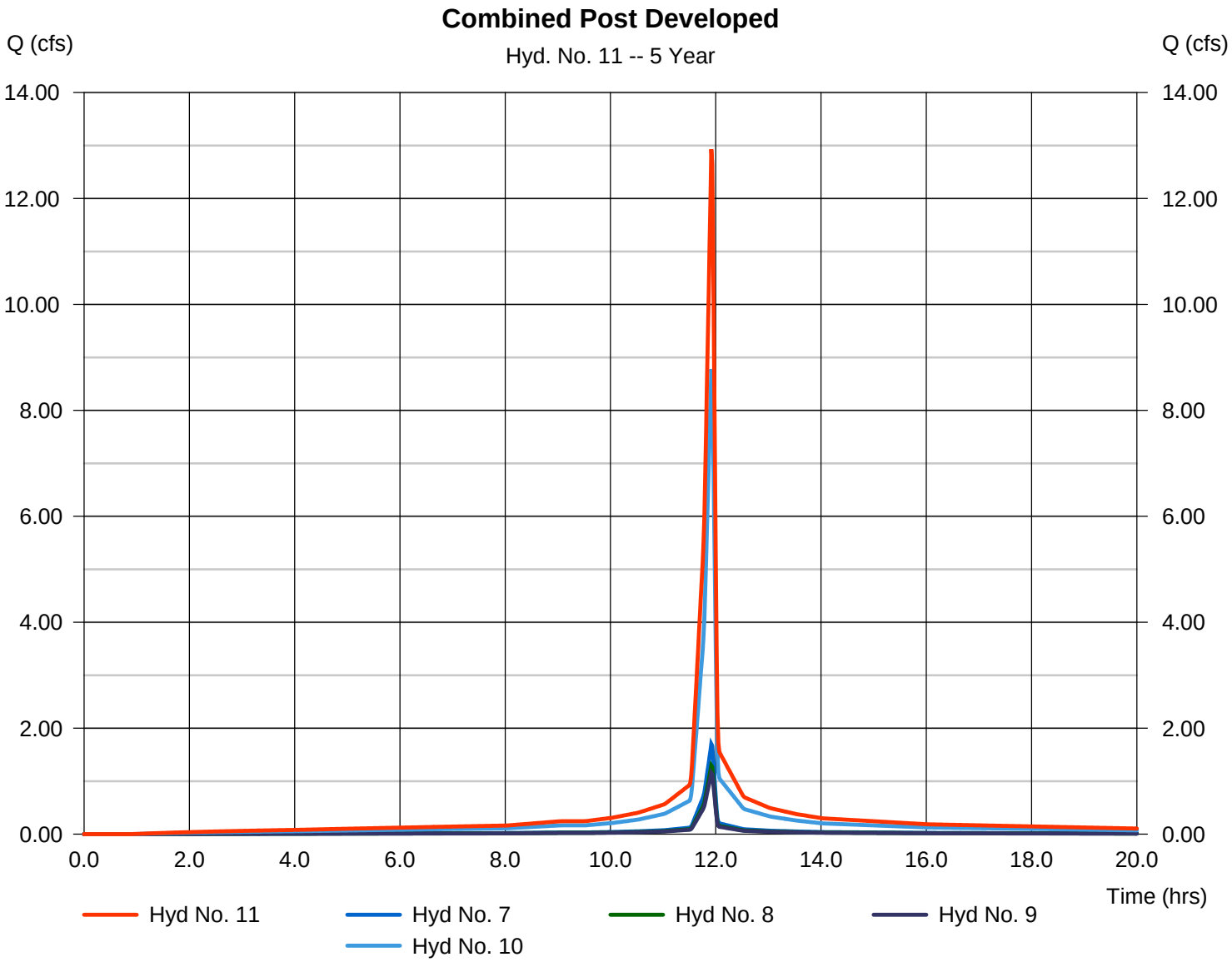


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	= Combine	Peak discharge	= 12.93 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.633 acft
Inflow hyds.	= 7, 8, 9, 10	Contrib. drain. area	= 0.610 ac

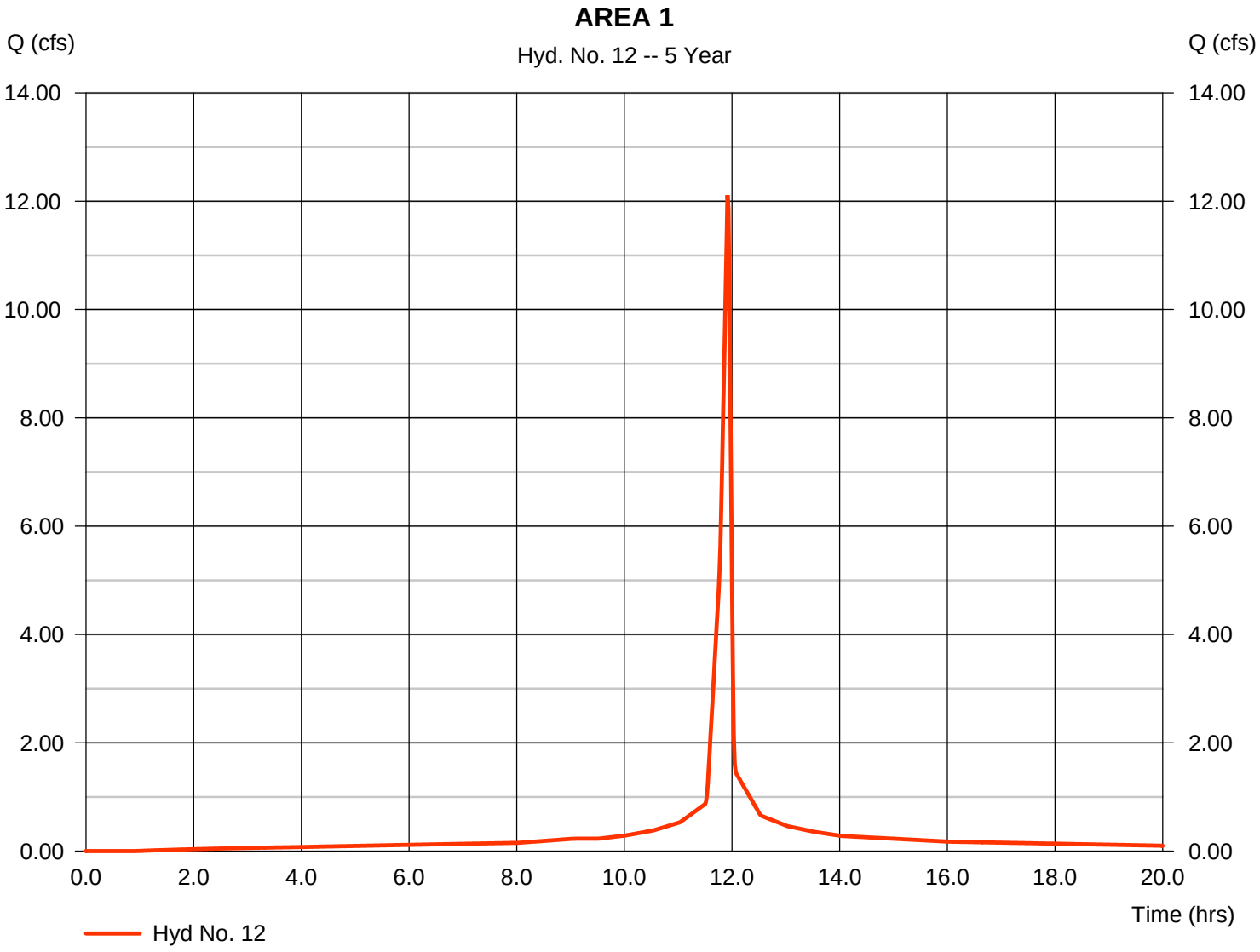


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 12.11 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.593 acft
Drainage area	= 1.780 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

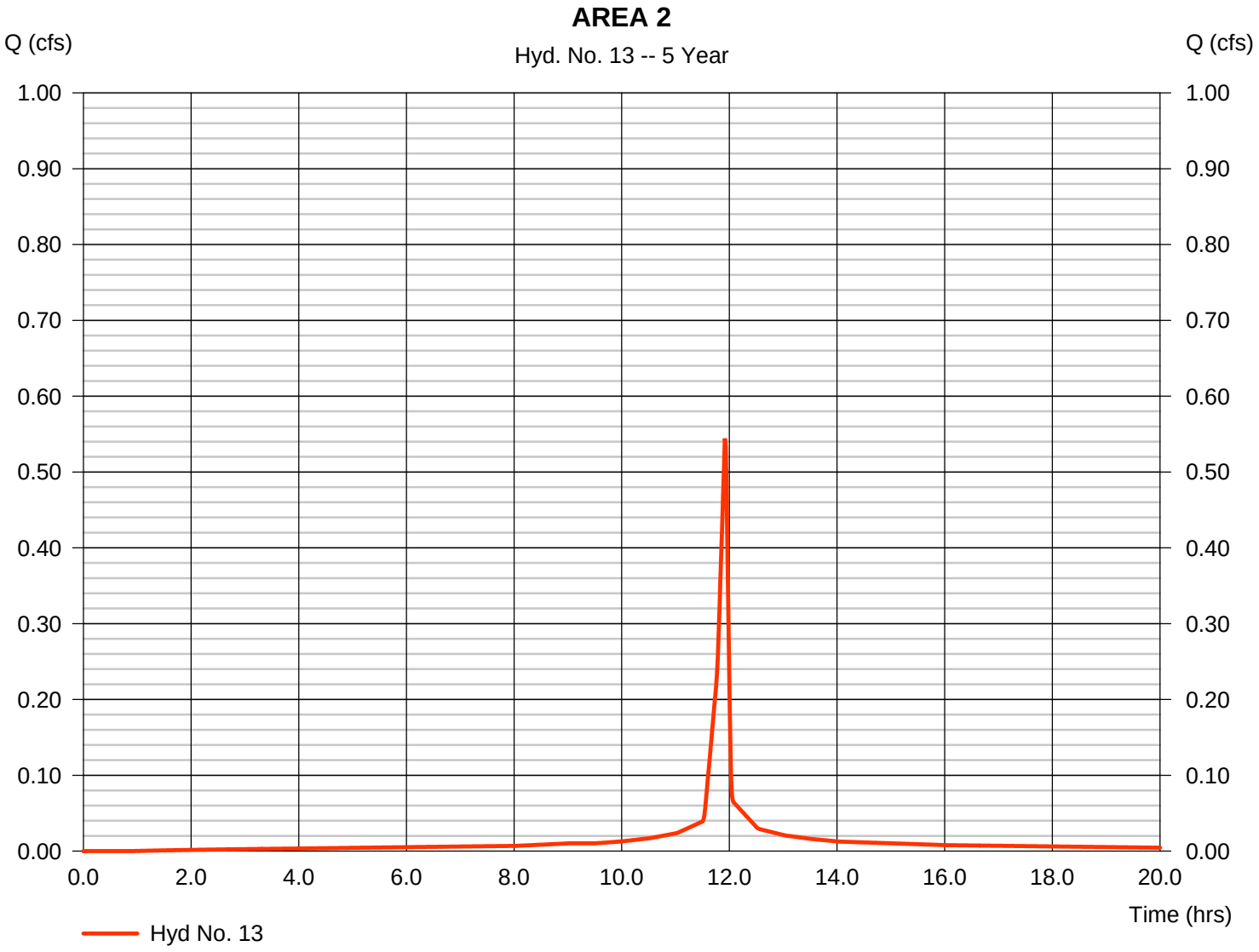


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.544 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.027 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

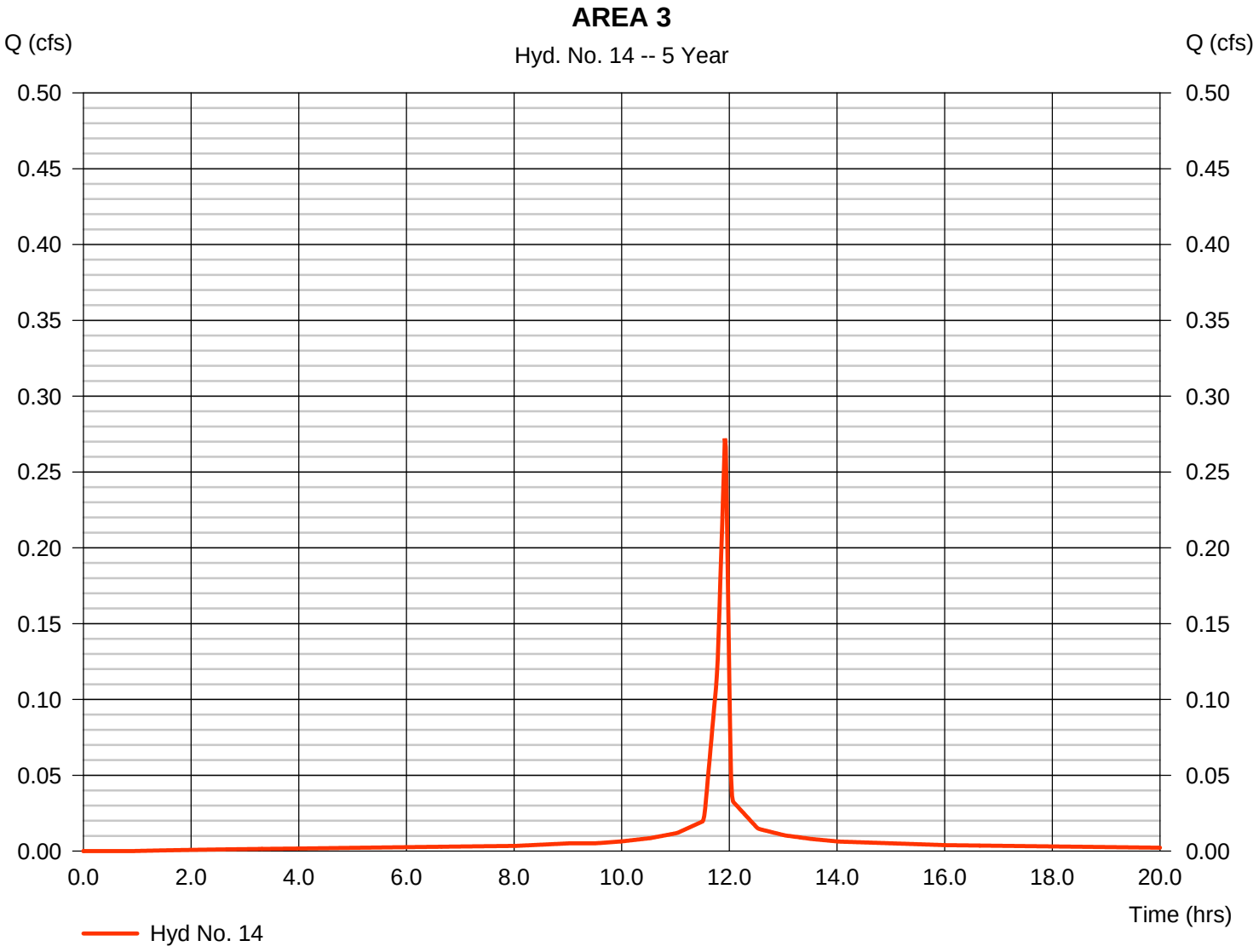


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.272 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.013 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

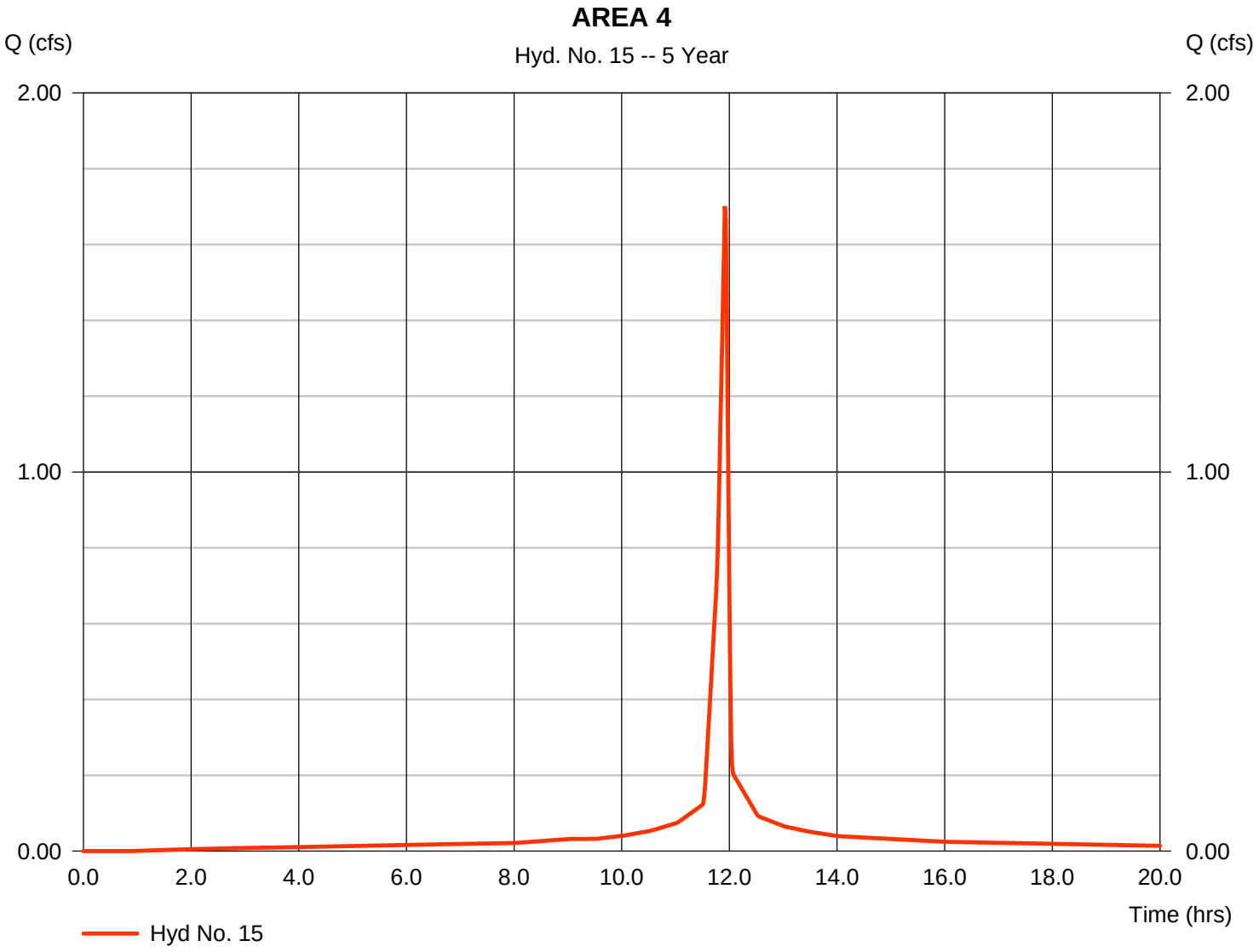


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	= SCS Runoff	Peak discharge	= 1.701 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.083 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

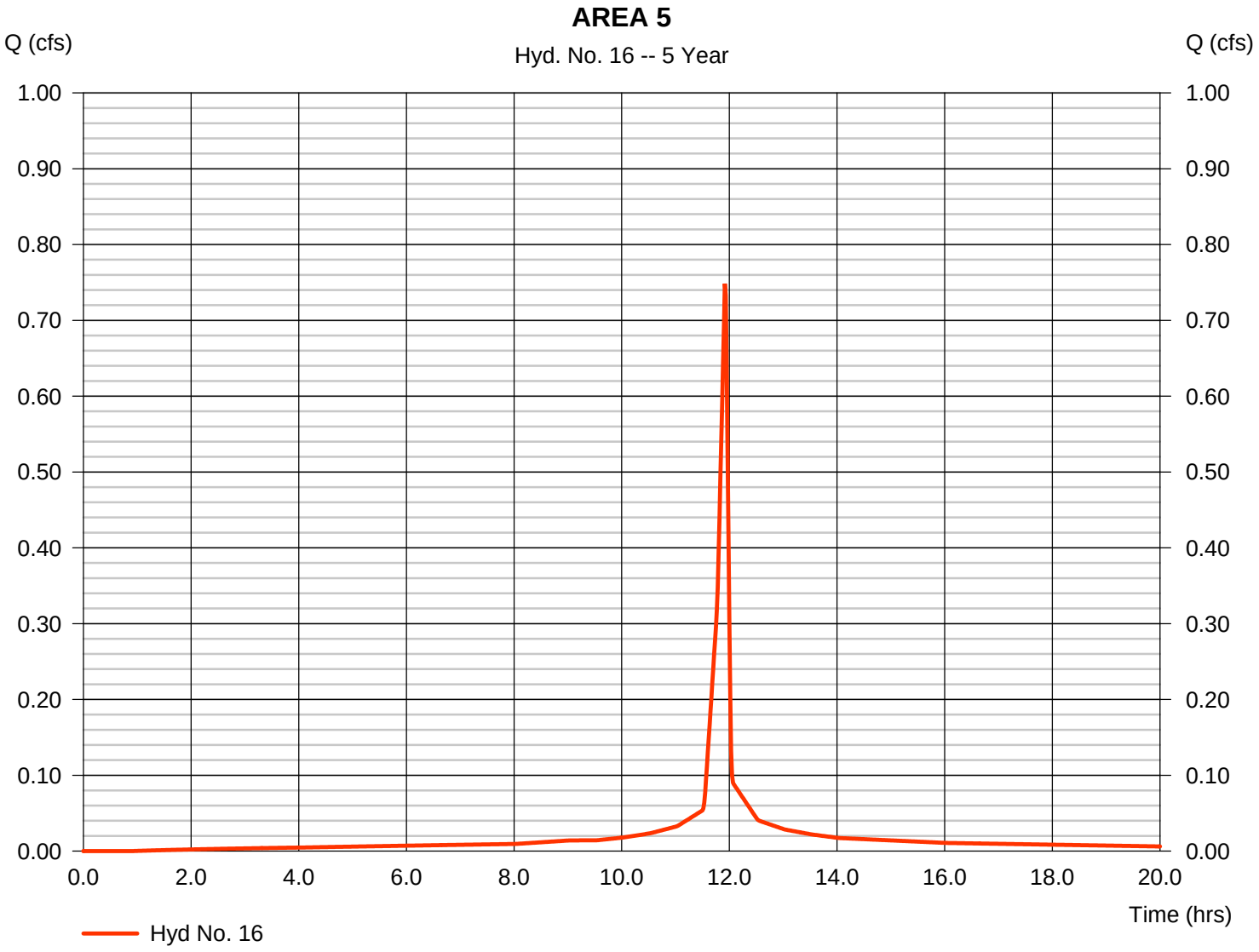


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 0.748 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.037 acft
Drainage area	= 0.110 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

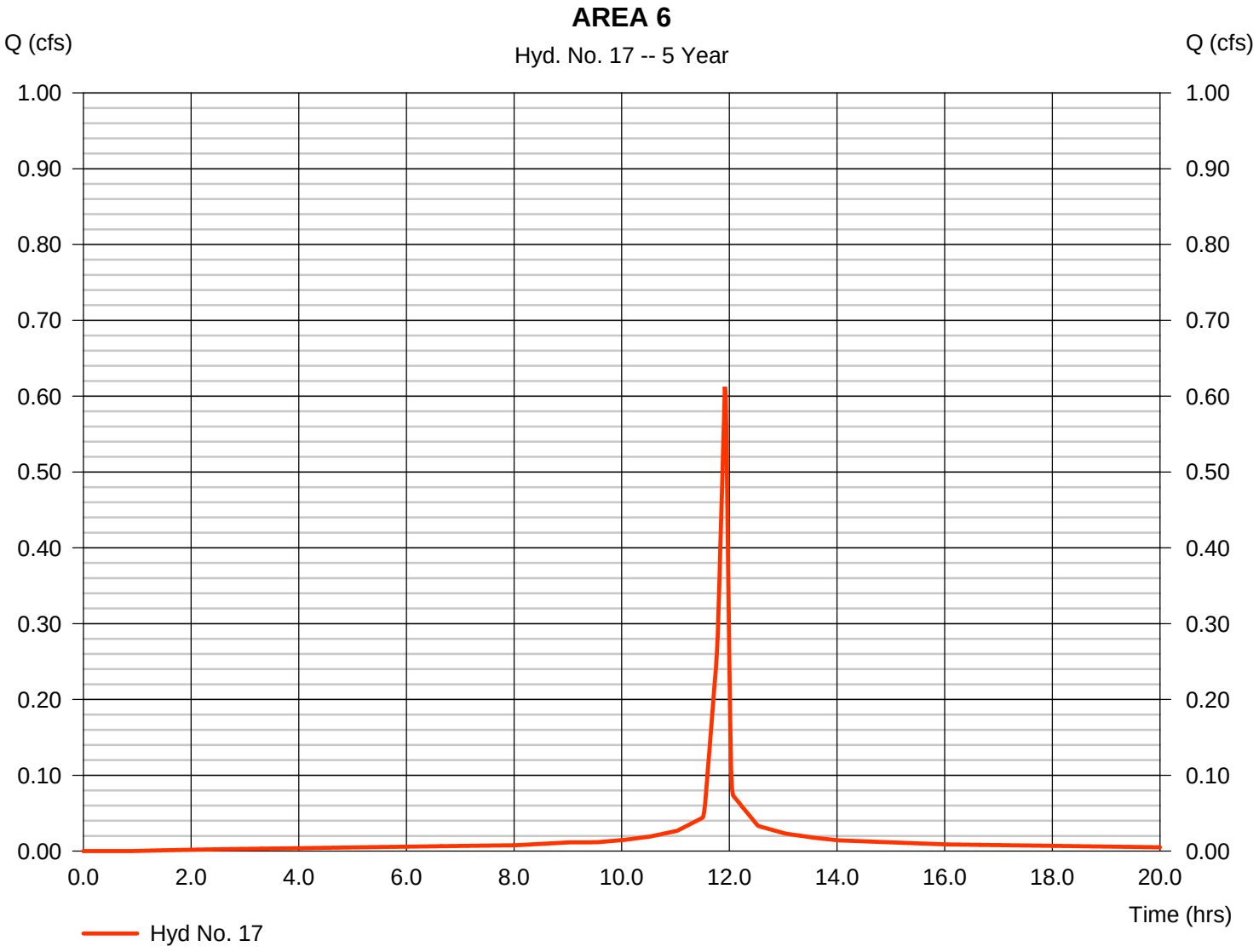


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.612 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.030 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

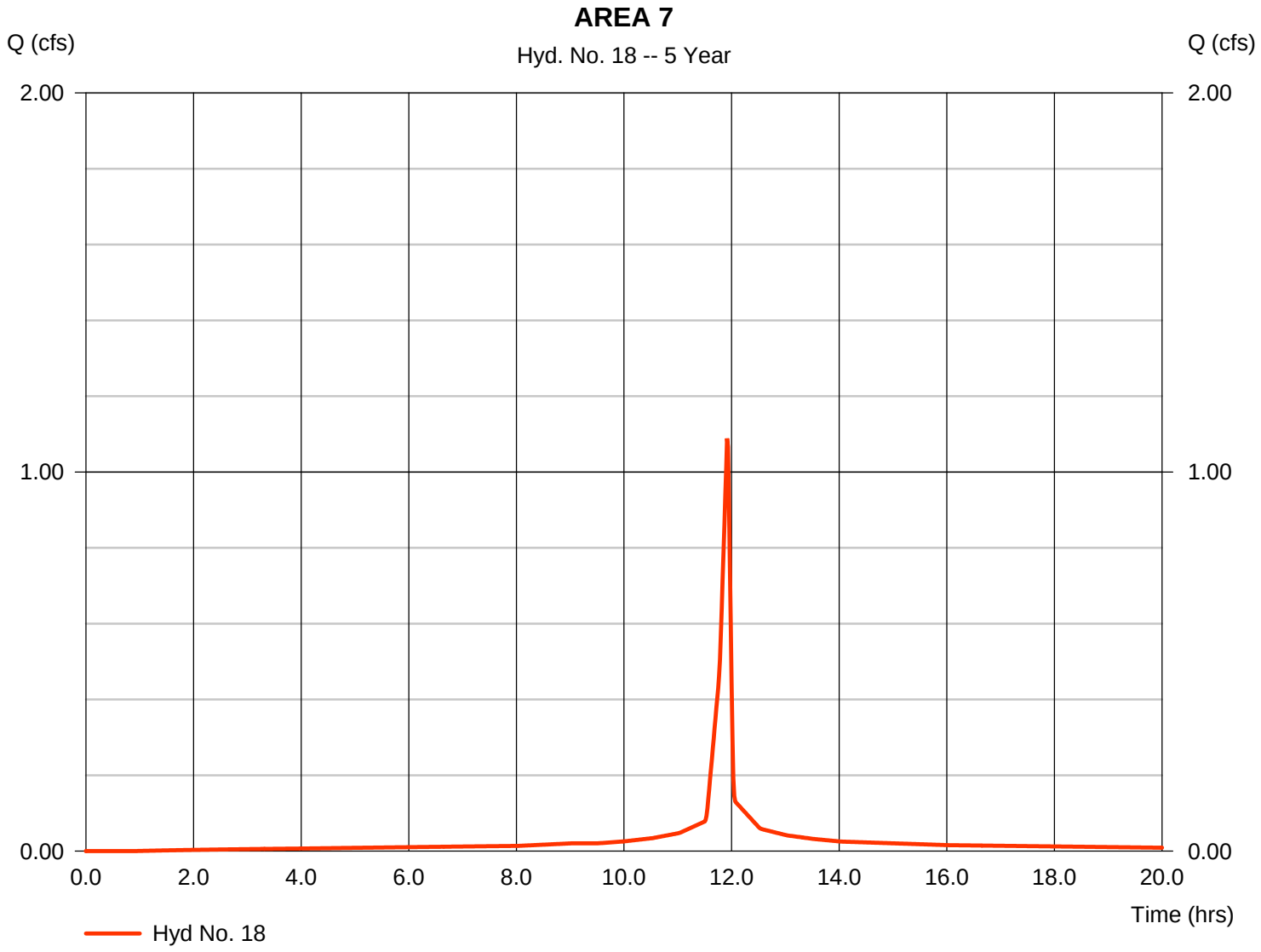


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.089 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.053 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

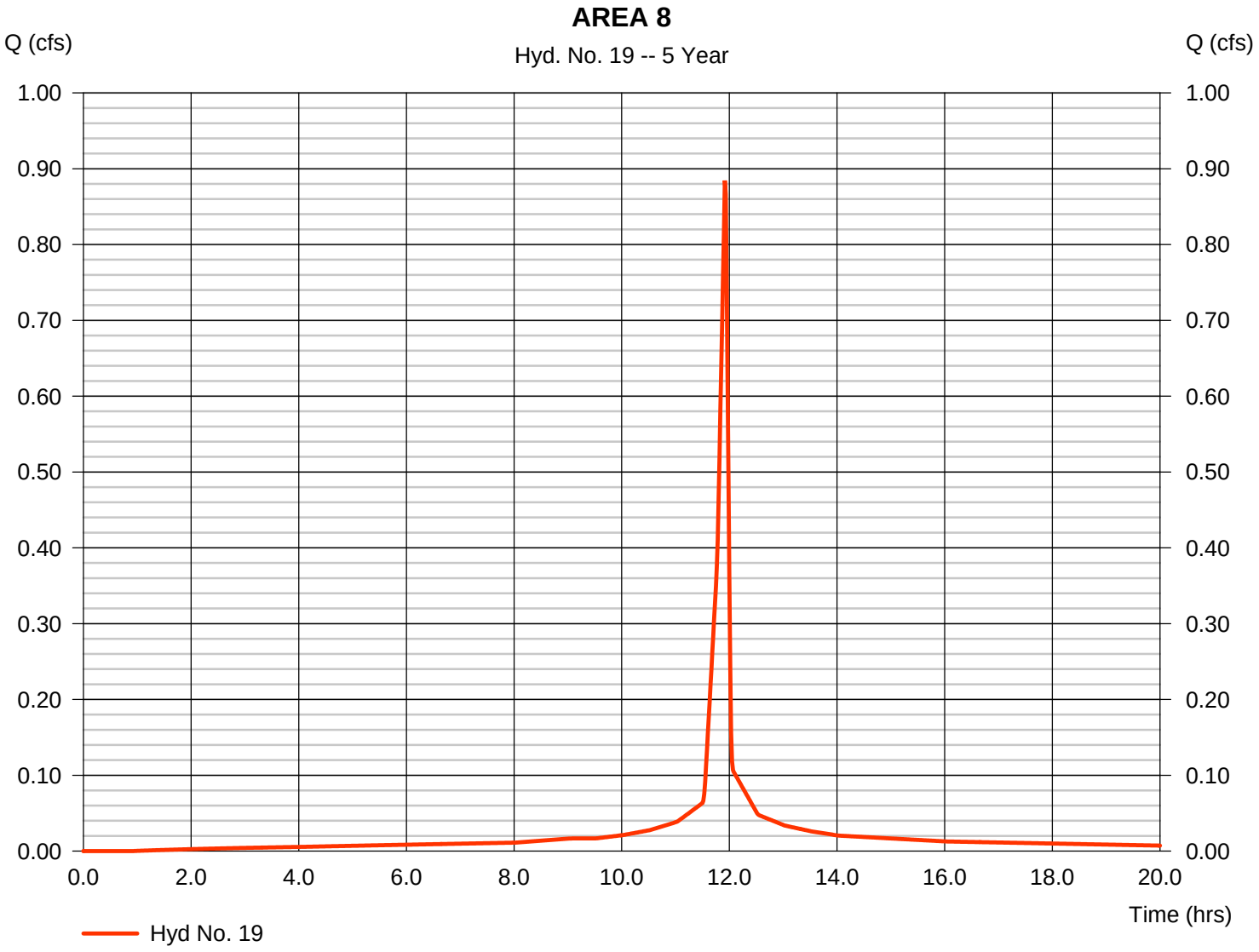


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 0.885 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.043 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 4.50 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

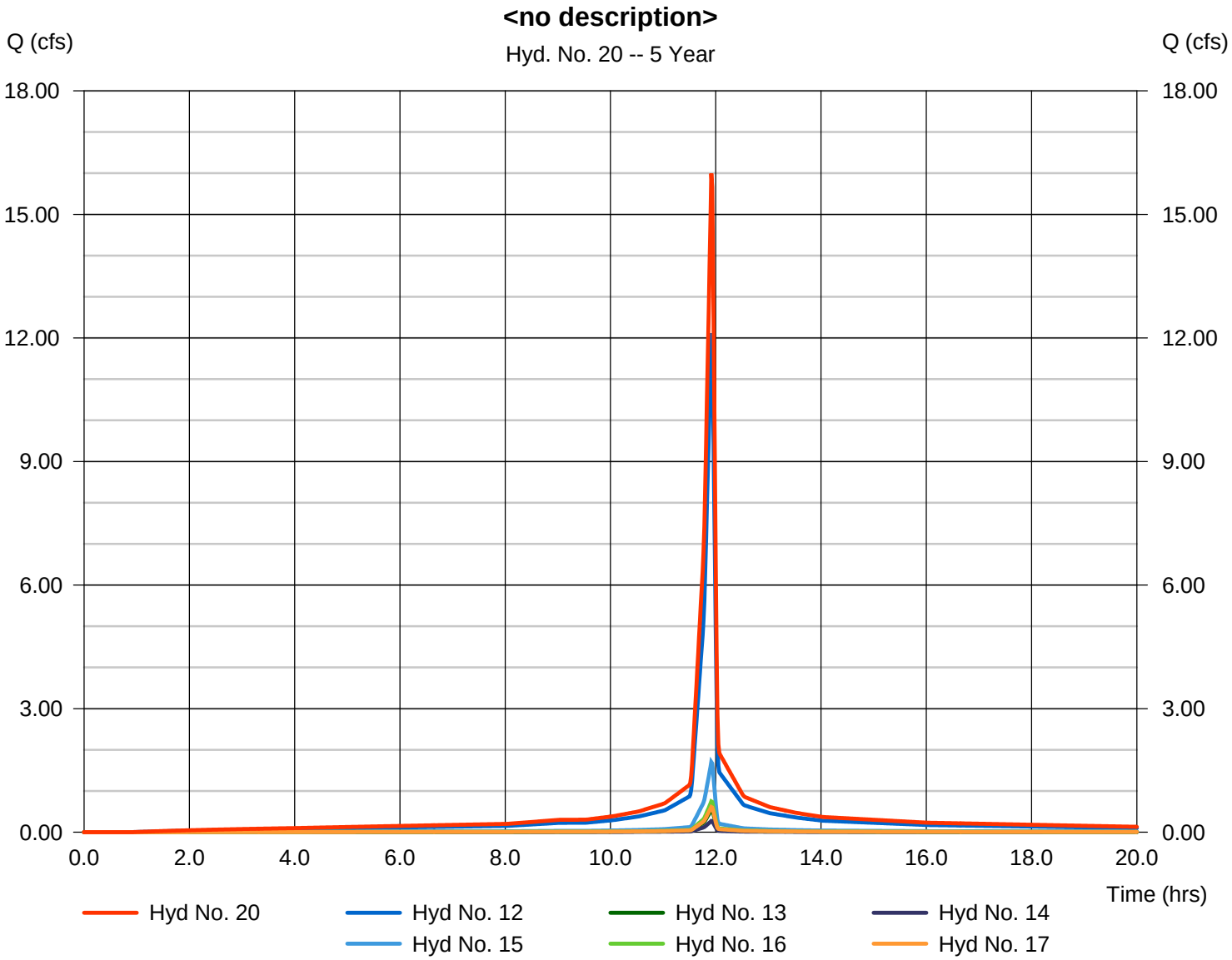


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	= Combine	Peak discharge	= 15.99 cfs
Storm frequency	= 5 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.783 acft
Inflow hyds.	= 12, 13, 14, 15, 16, 17	Contrib. drain. area	= 2.350 ac

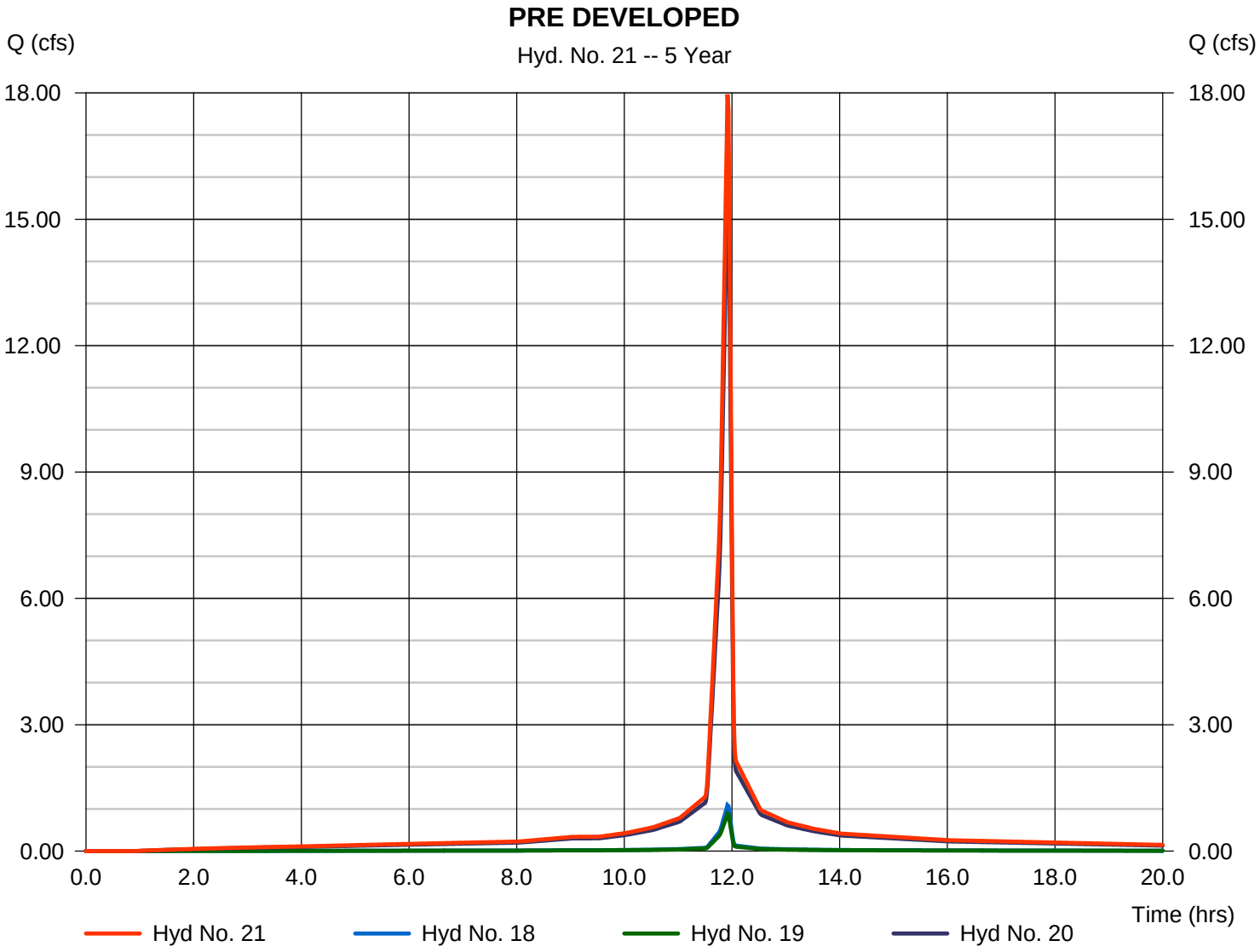


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	17.96 cfs
Storm frequency	=	5 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.879 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

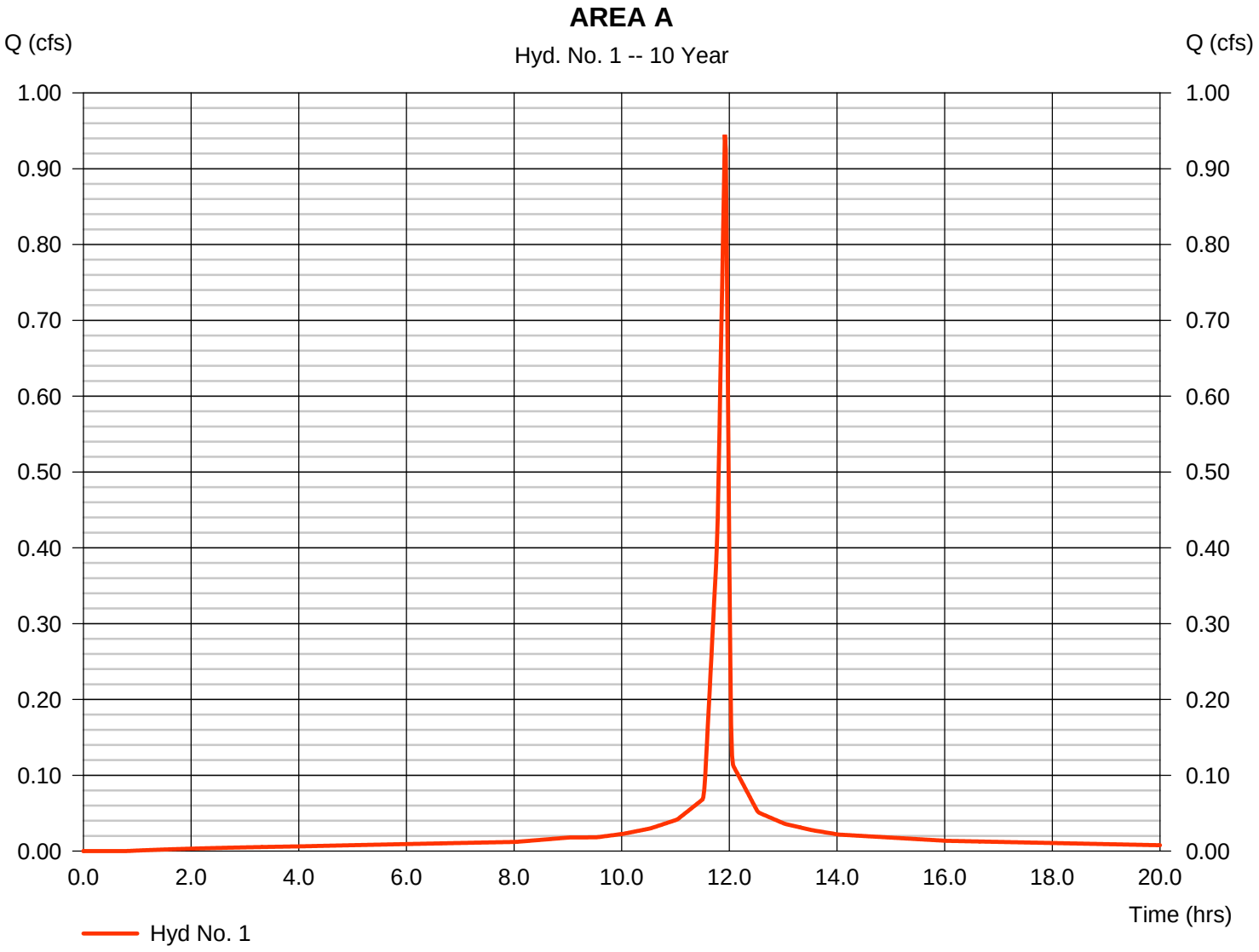
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	0.945	1	715	0.047	------	------	------	AREA A
2	SCS Runoff	2.913	1	715	0.143	------	------	------	AREA B
3	SCS Runoff	0.945	1	715	0.047	------	------	------	AREA C
4	SCS Runoff	2.756	1	715	0.136	------	------	------	AREA D
5	SCS Runoff	0.630	1	715	0.031	------	------	------	AREA E
6	SCS Runoff	1.969	1	715	0.097	------	------	------	AREA F
7	SCS Runoff	1.969	1	715	0.097	------	------	------	AREA G
8	SCS Runoff	1.496	1	715	0.074	------	------	------	AREA H
9	SCS Runoff	1.339	1	715	0.066	------	------	------	AREA I
10	Combine	10.16	1	715	0.500	1, 2, 3,	------	------	<no description>
11	Combine	14.96	1	715	0.737	4, 5, 6, 7, 8, 9, 10	------	------	Combined Post Developed
12	SCS Runoff	14.02	1	715	0.690	------	------	------	AREA 1
13	SCS Runoff	0.630	1	715	0.031	------	------	------	AREA 2
14	SCS Runoff	0.315	1	715	0.016	------	------	------	AREA 3
15	SCS Runoff	1.969	1	715	0.097	------	------	------	AREA 4
16	SCS Runoff	0.866	1	715	0.043	------	------	------	AREA 5
17	SCS Runoff	0.709	1	715	0.035	------	------	------	AREA 6
18	SCS Runoff	1.260	1	715	0.062	------	------	------	AREA 7
19	SCS Runoff	1.024	1	715	0.050	------	------	------	AREA 8
20	Combine	18.50	1	715	0.911	12, 13, 14,	------	------	<no description>
21	Combine	20.79	1	715	1.024	15, 16, 17, 18, 19, 20	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.945 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.047 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

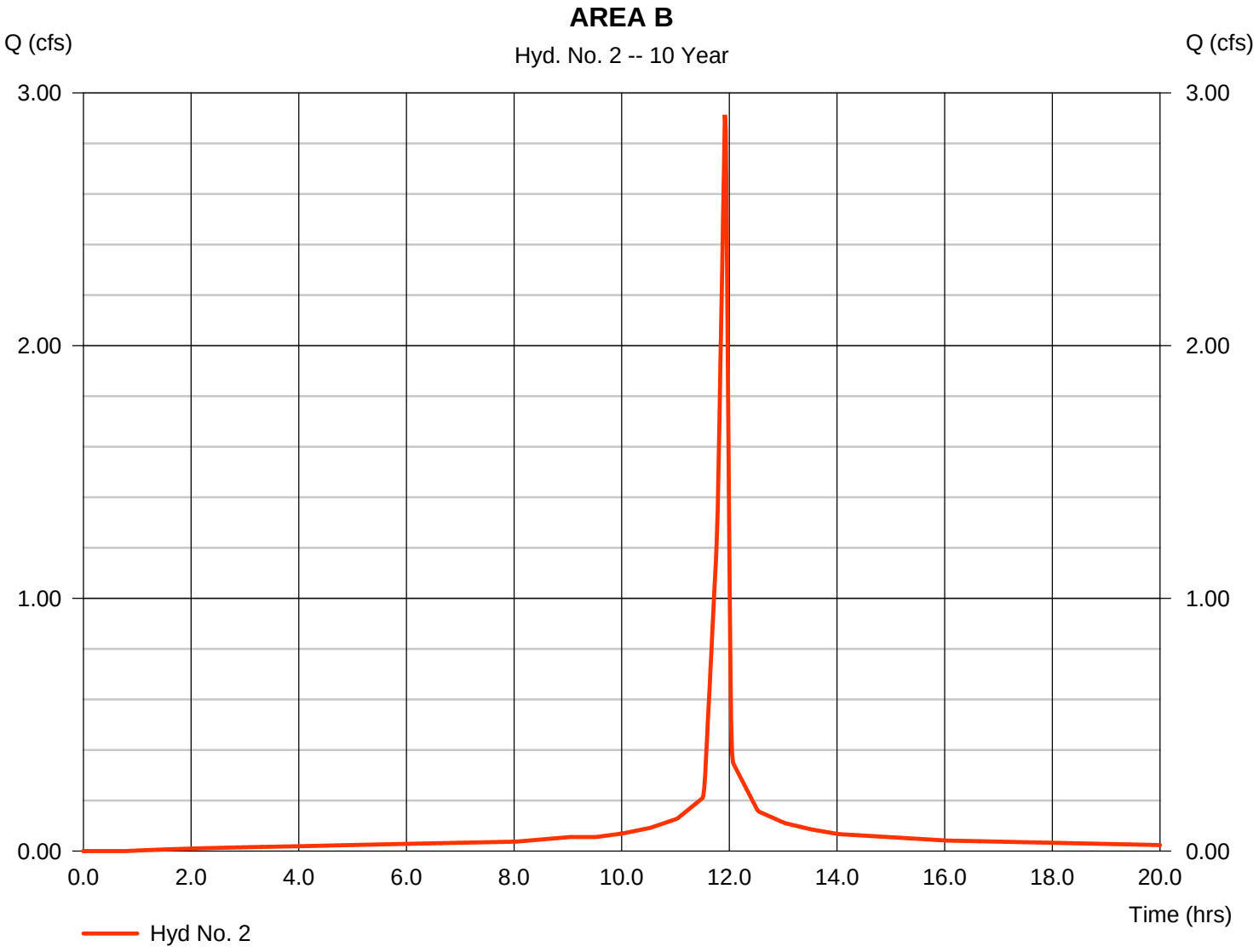


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.913 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.143 acft
Drainage area	=	0.370 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

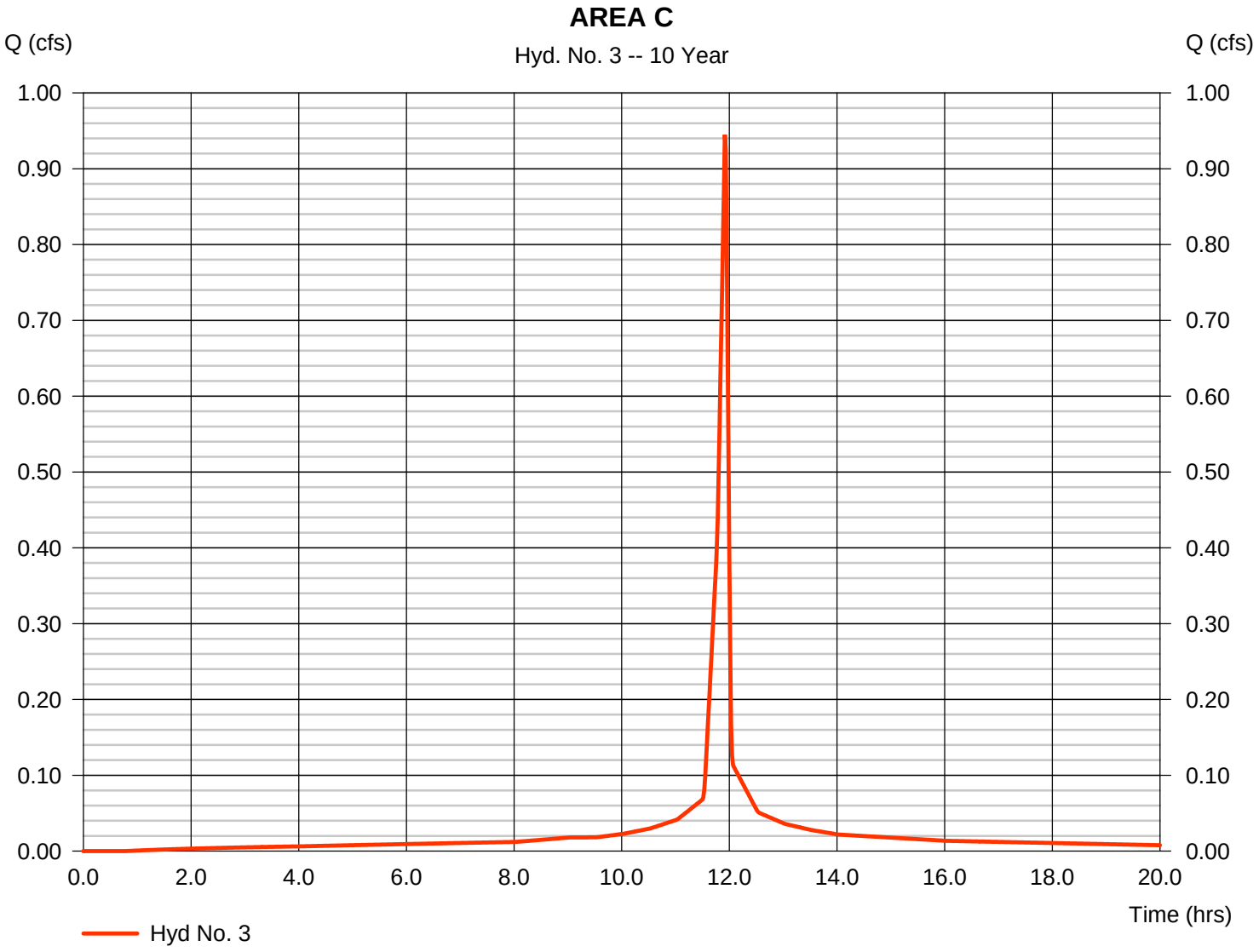


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.945 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.047 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

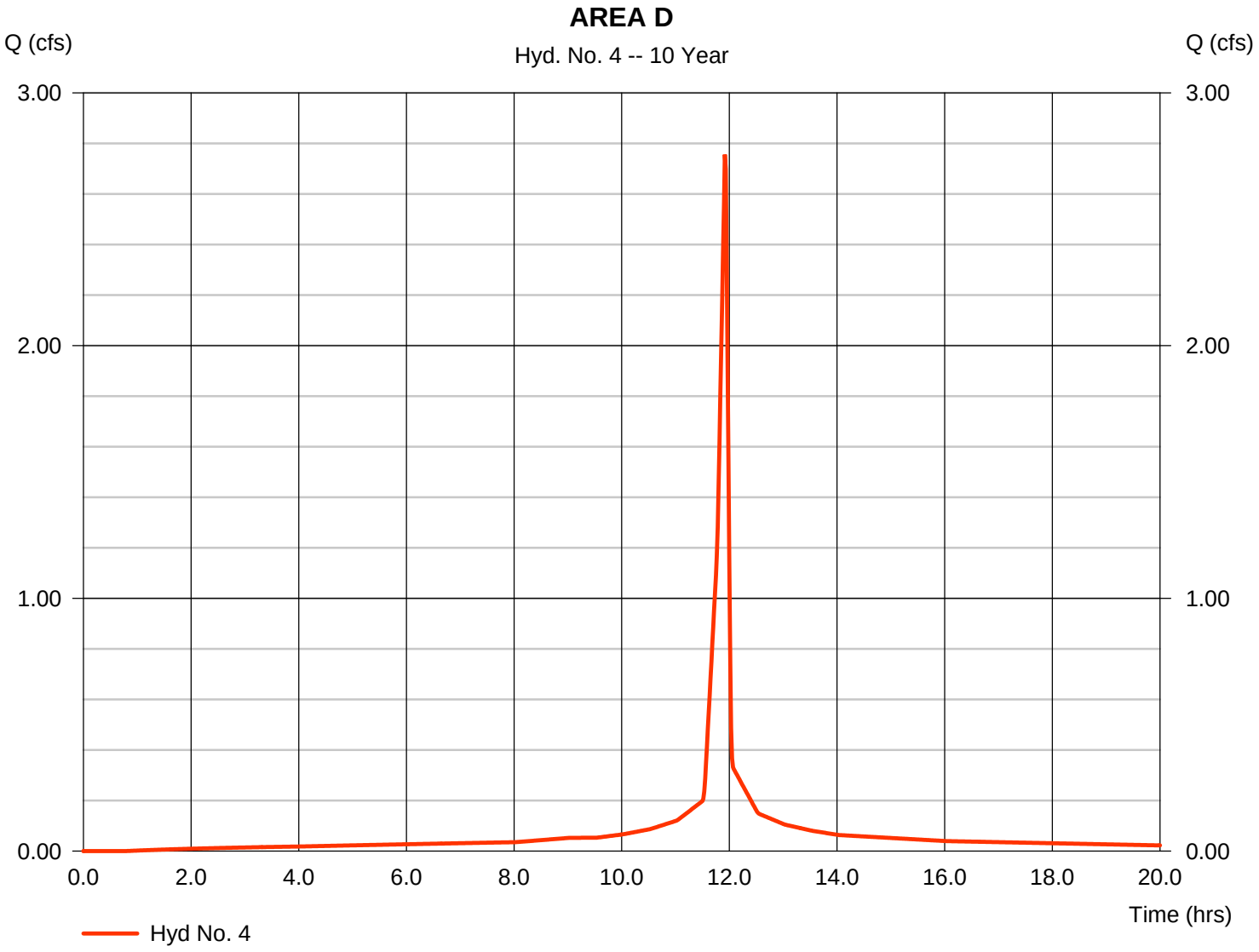


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.756 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.136 acft
Drainage area	=	0.350 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	1.70 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

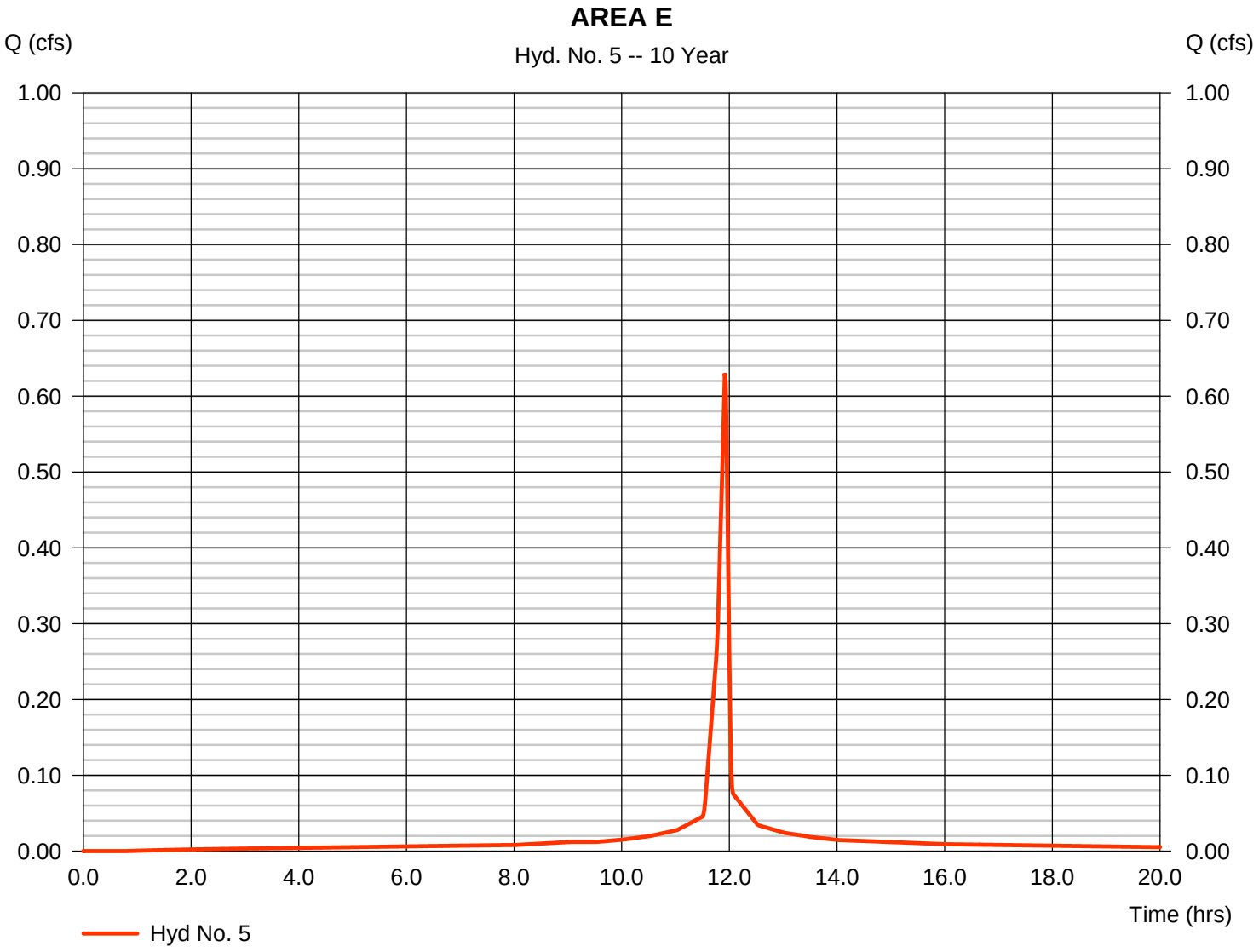


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.630 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.031 acft
Drainage area	=	0.080 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

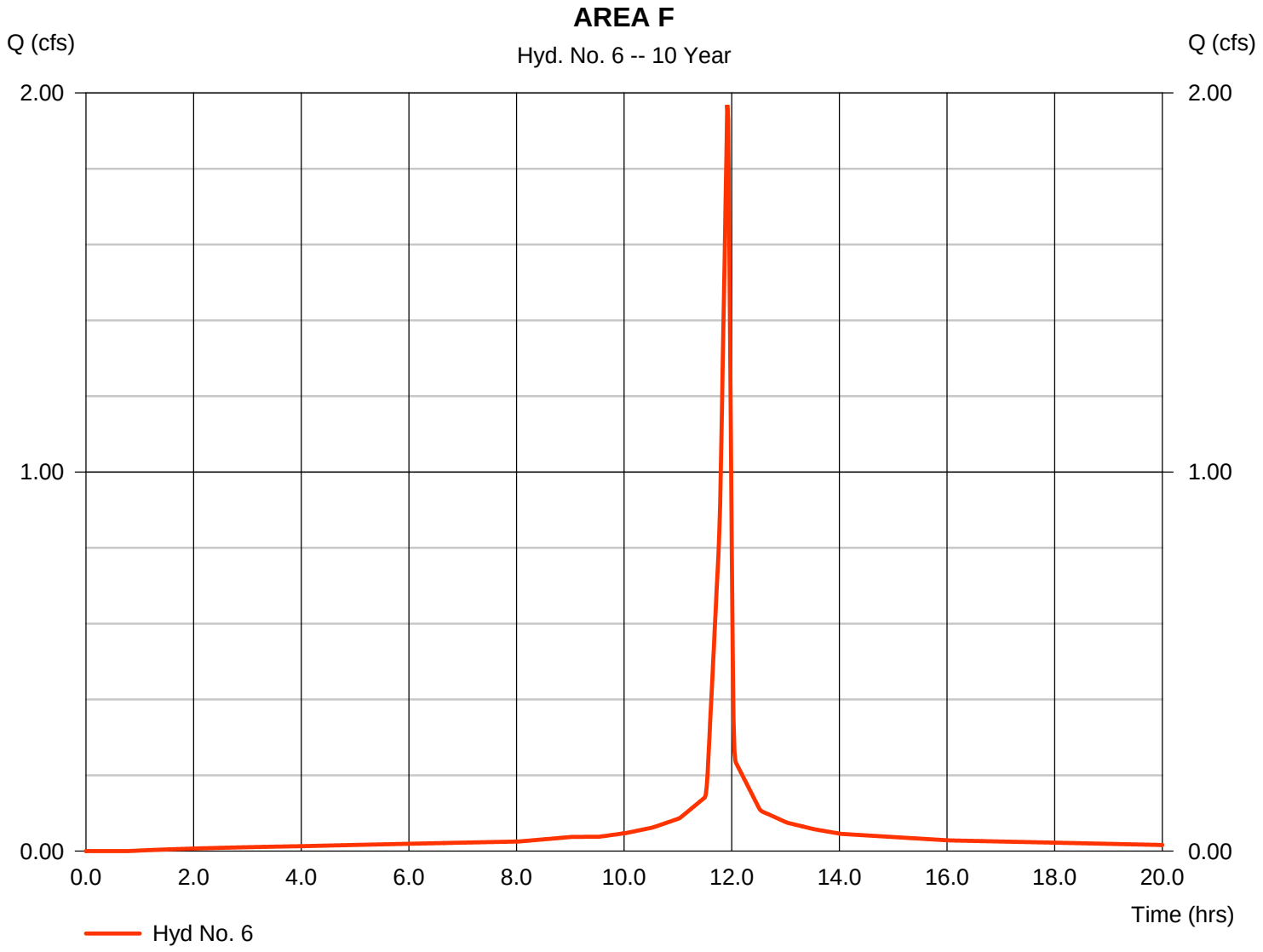


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.969 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.097 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

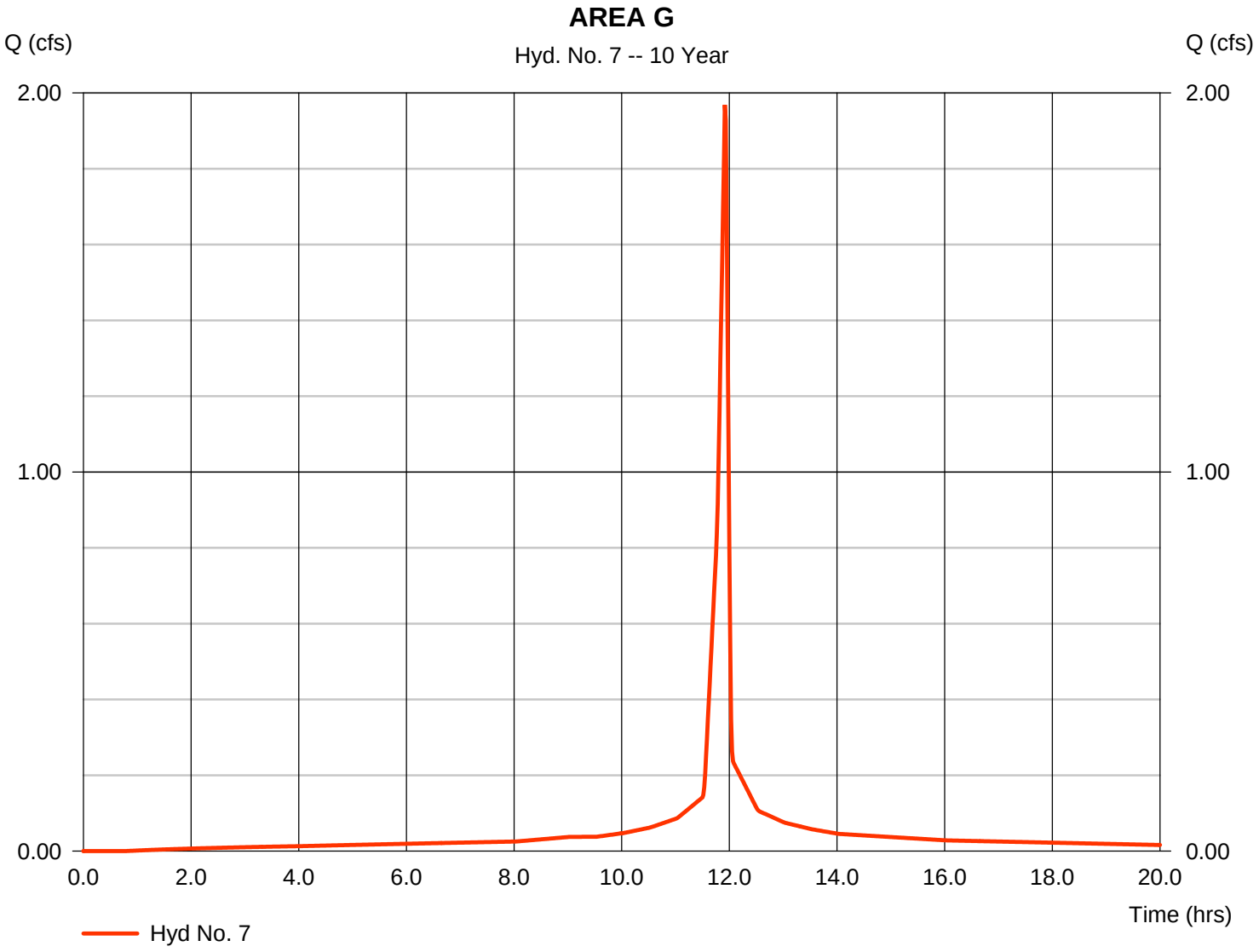


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.969 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.097 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

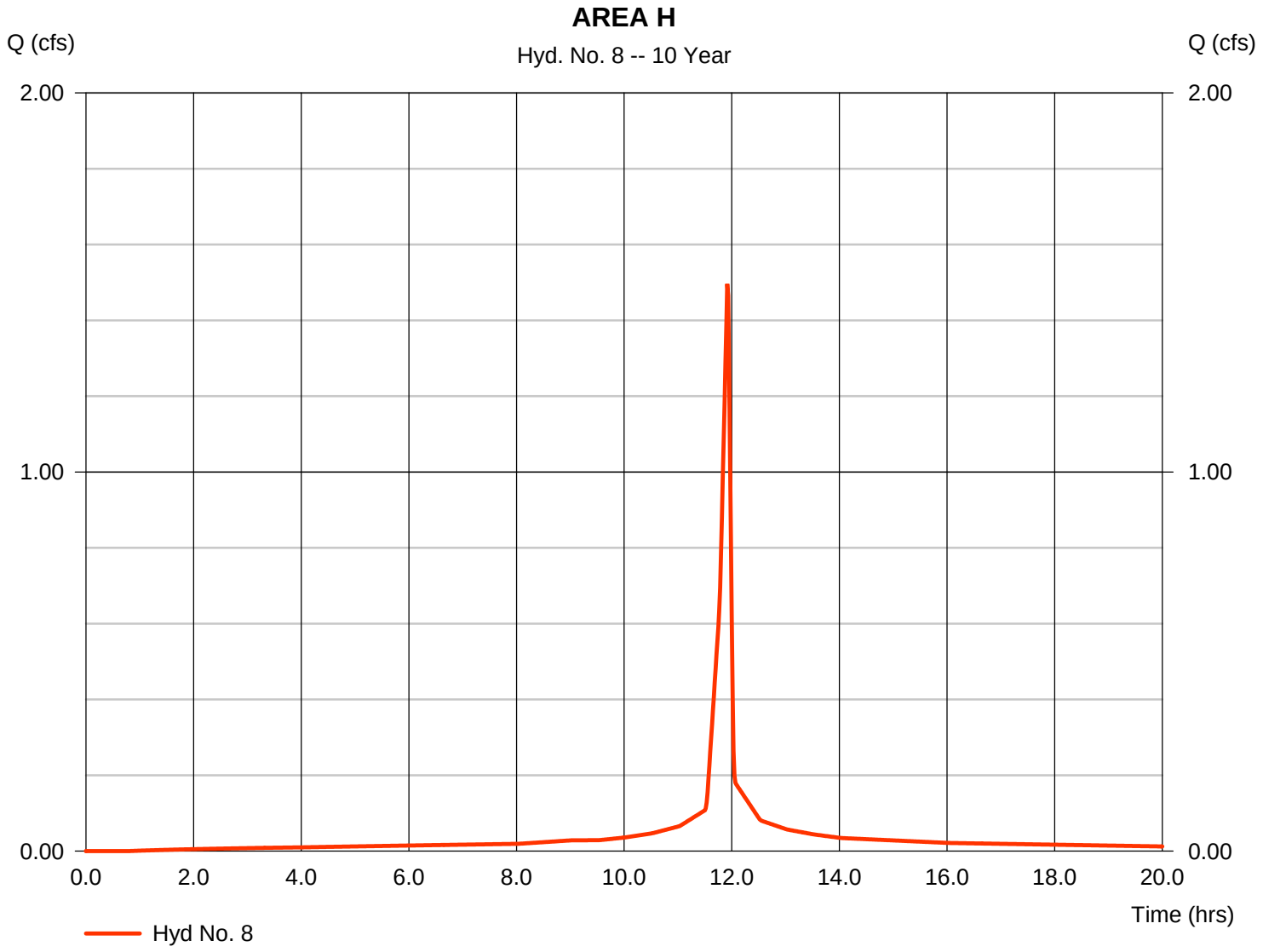


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.496 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.074 acft
Drainage area	=	0.190 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

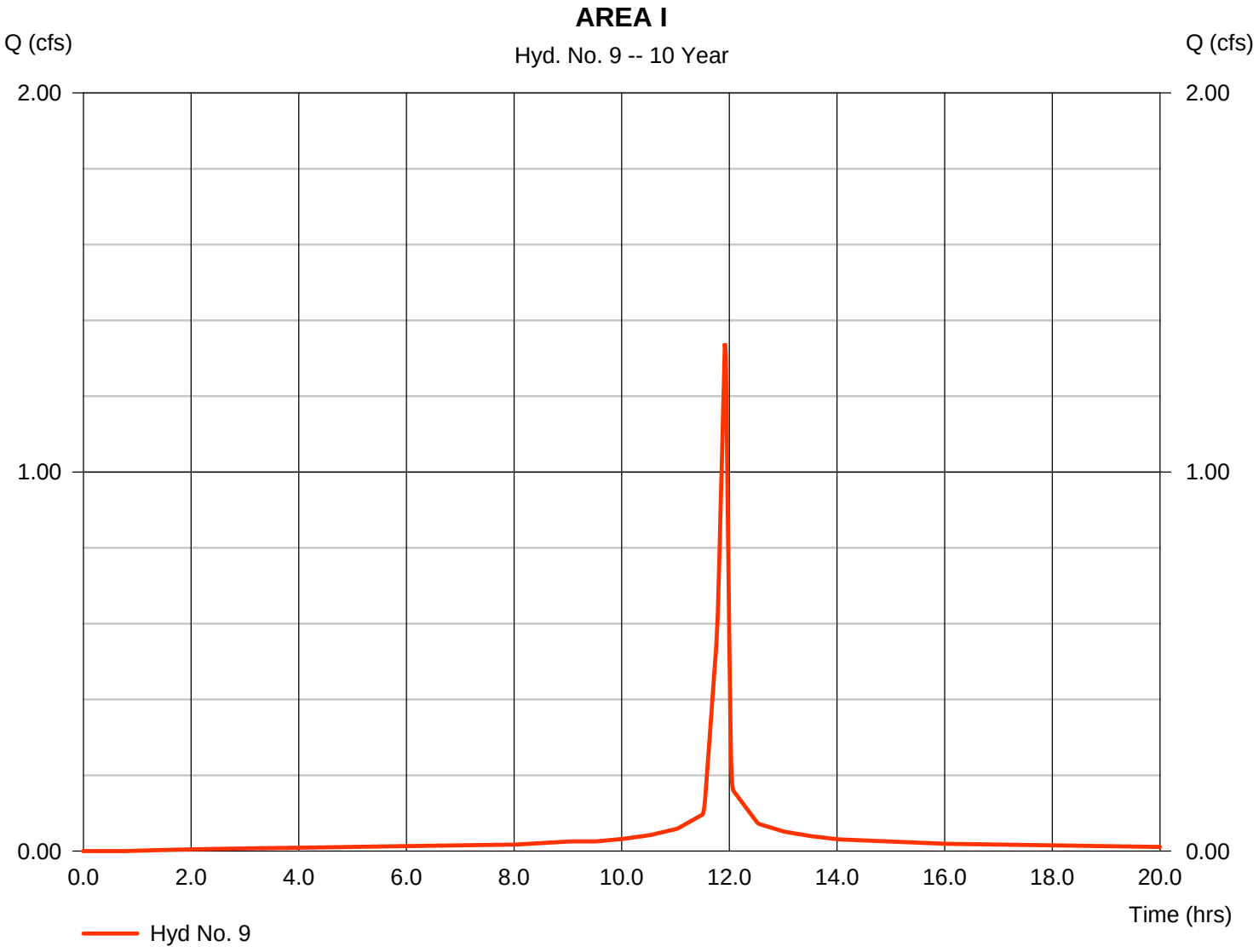


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.339 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.066 acft
Drainage area	=	0.170 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

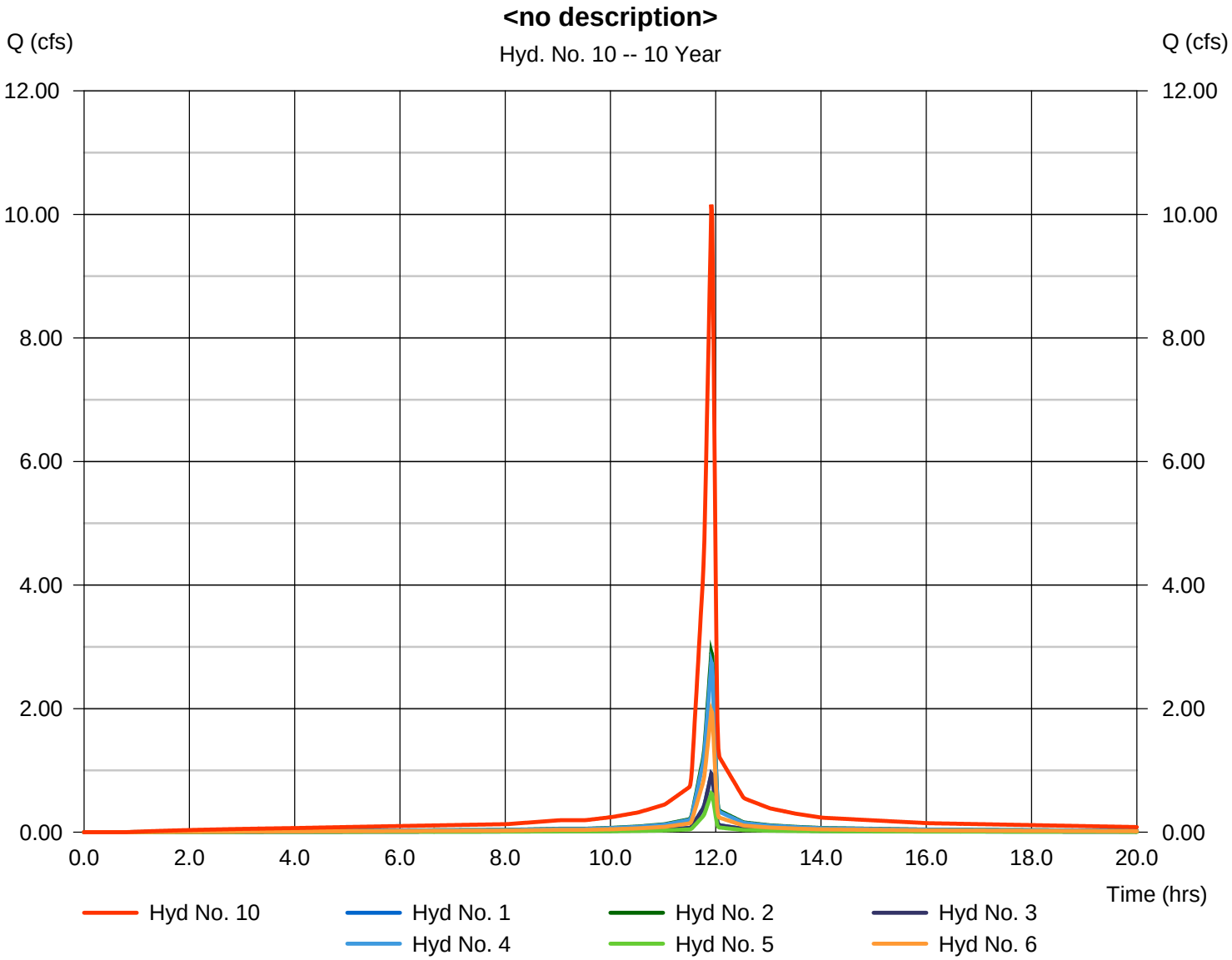


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	= Combine	Peak discharge	= 10.16 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.500 acft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 1.290 ac

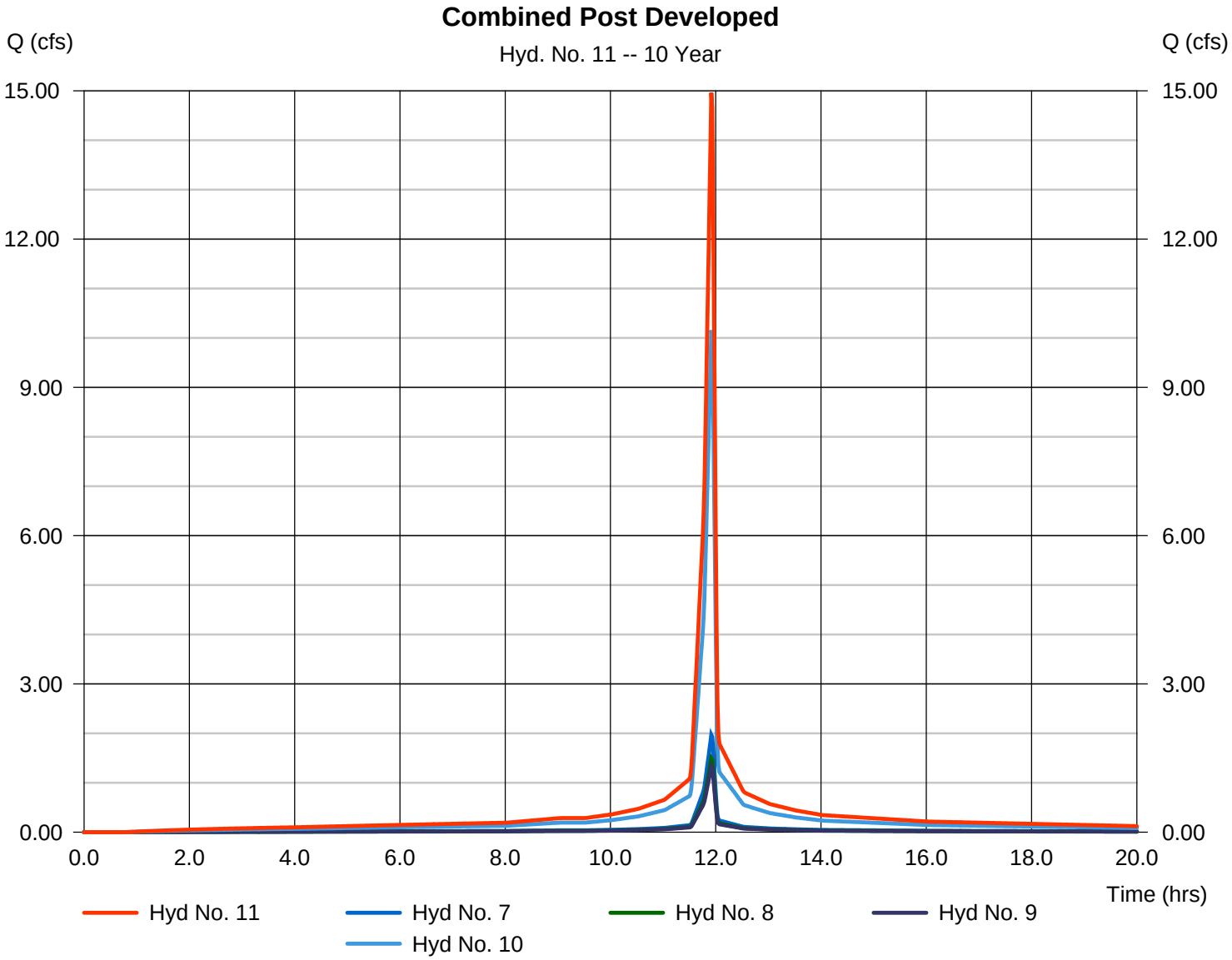


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	= Combine	Peak discharge	= 14.96 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.737 acft
Inflow hyds.	= 7, 8, 9, 10	Contrib. drain. area	= 0.610 ac

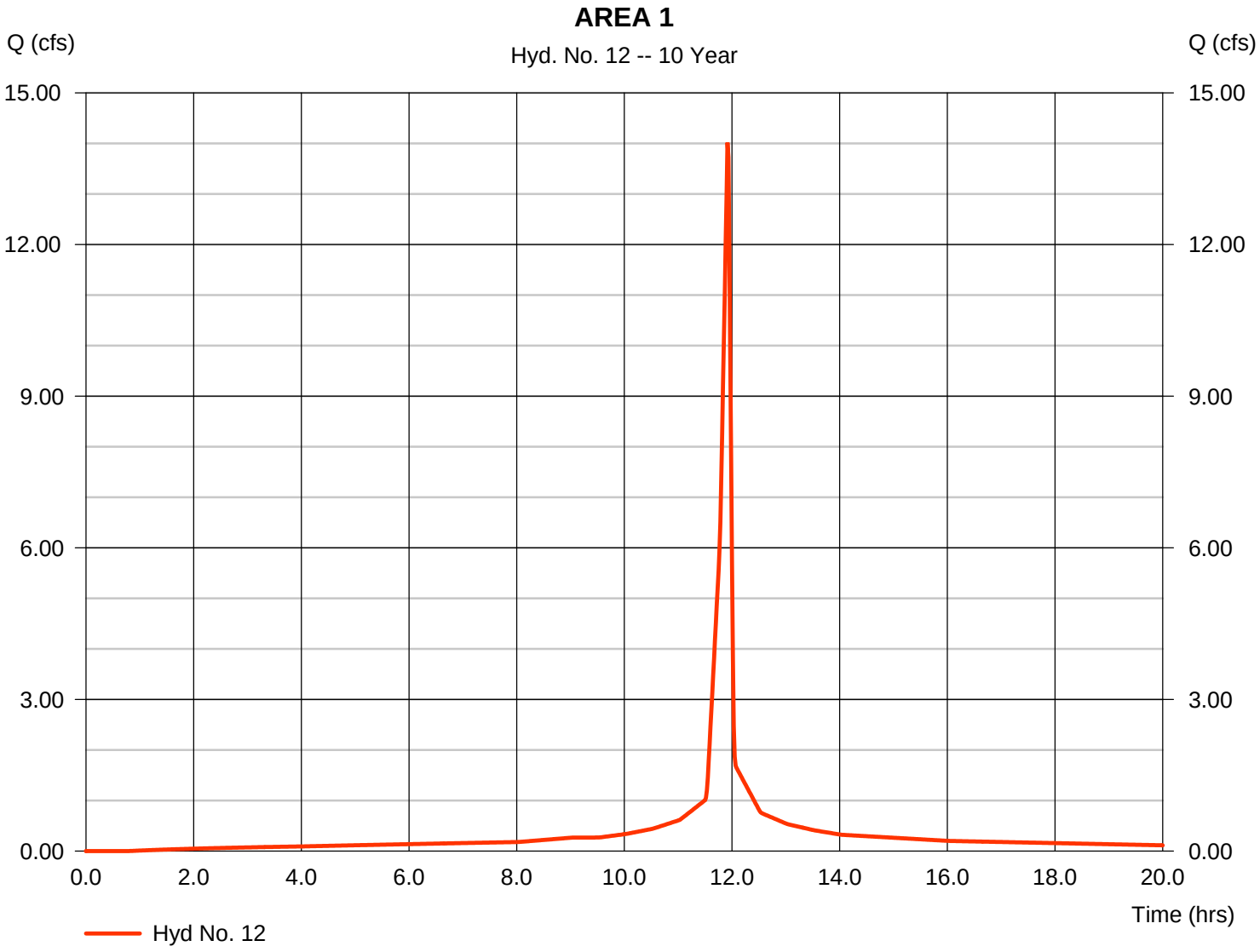


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 14.02 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.690 acft
Drainage area	= 1.780 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

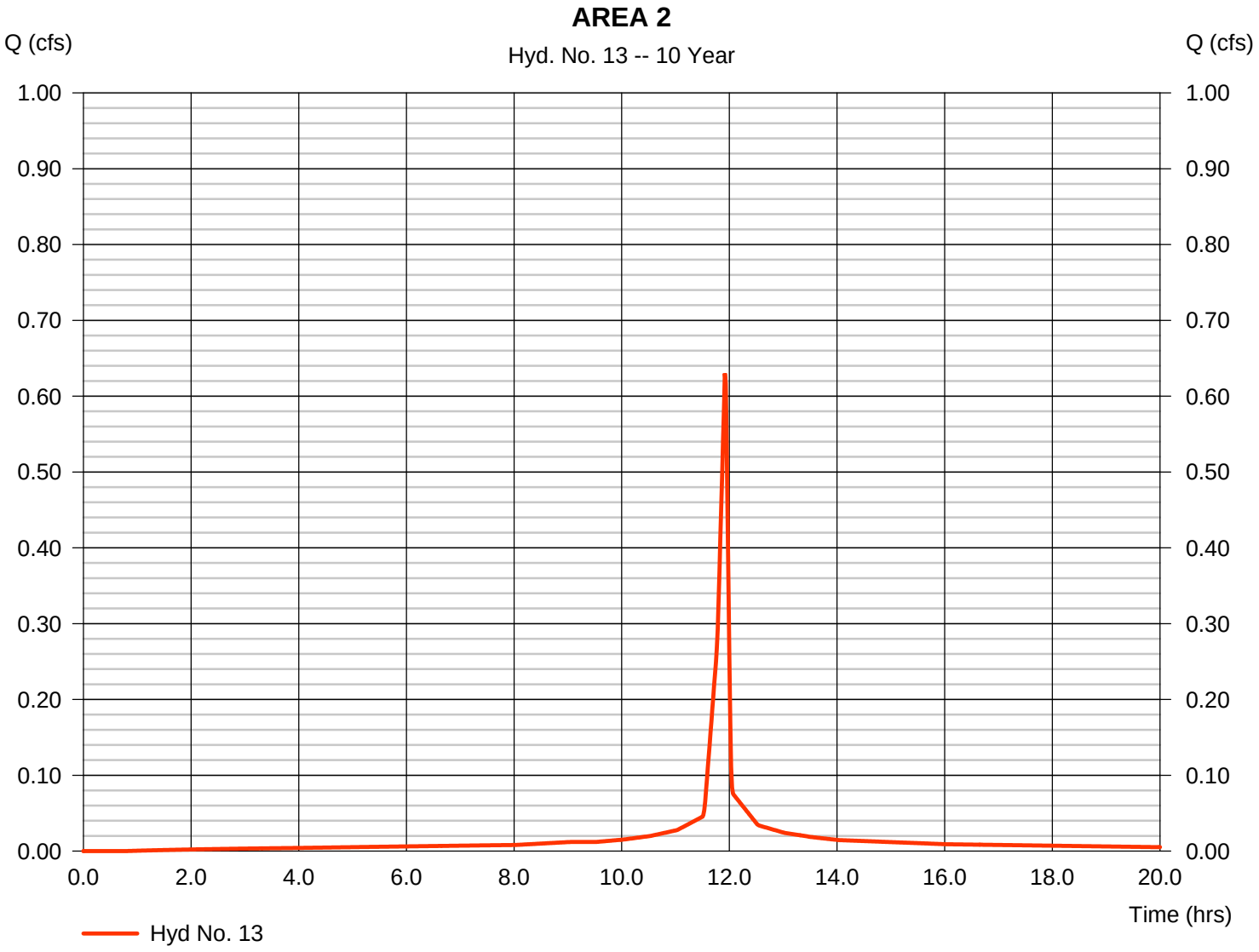


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.630 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.031 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

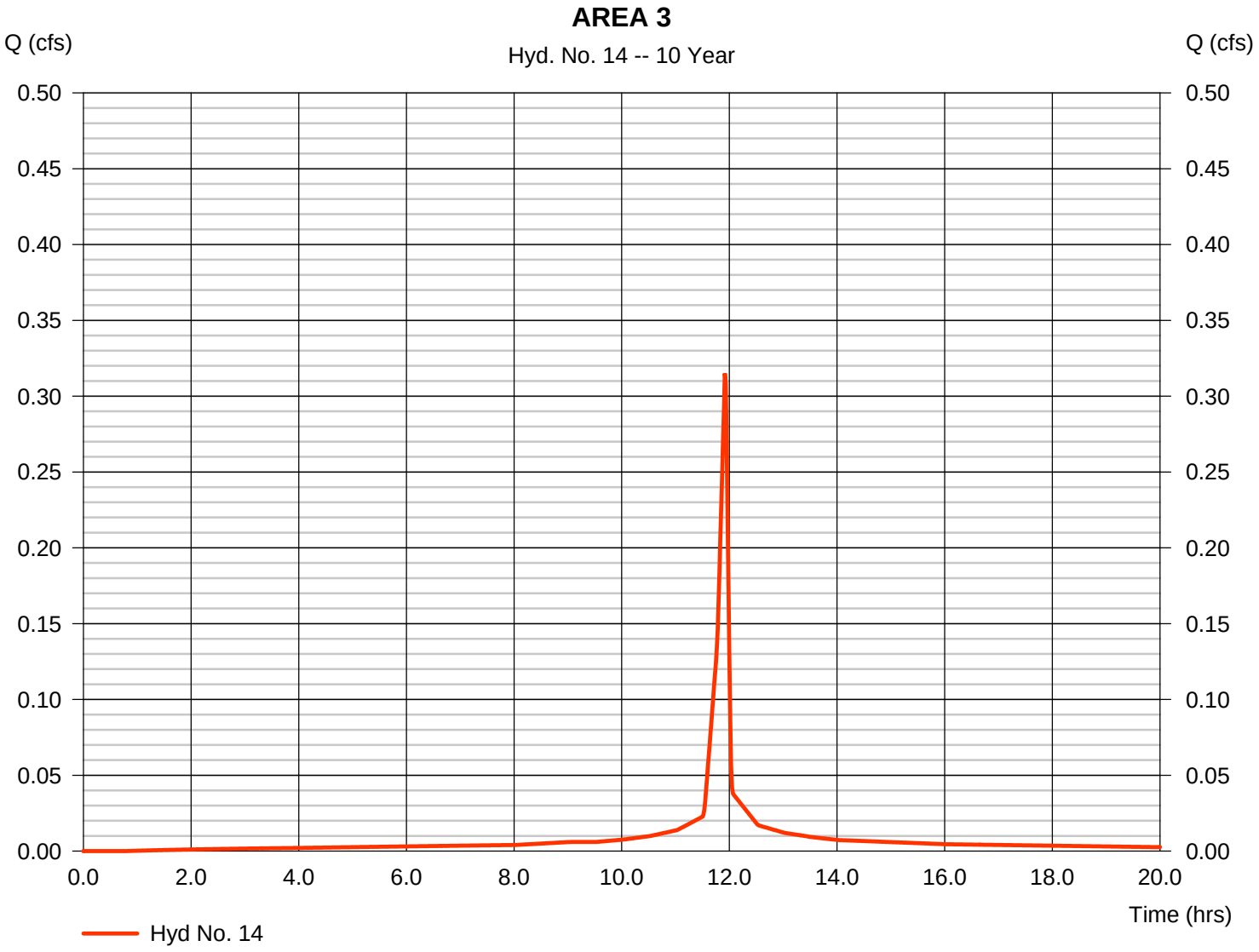


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.315 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.016 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

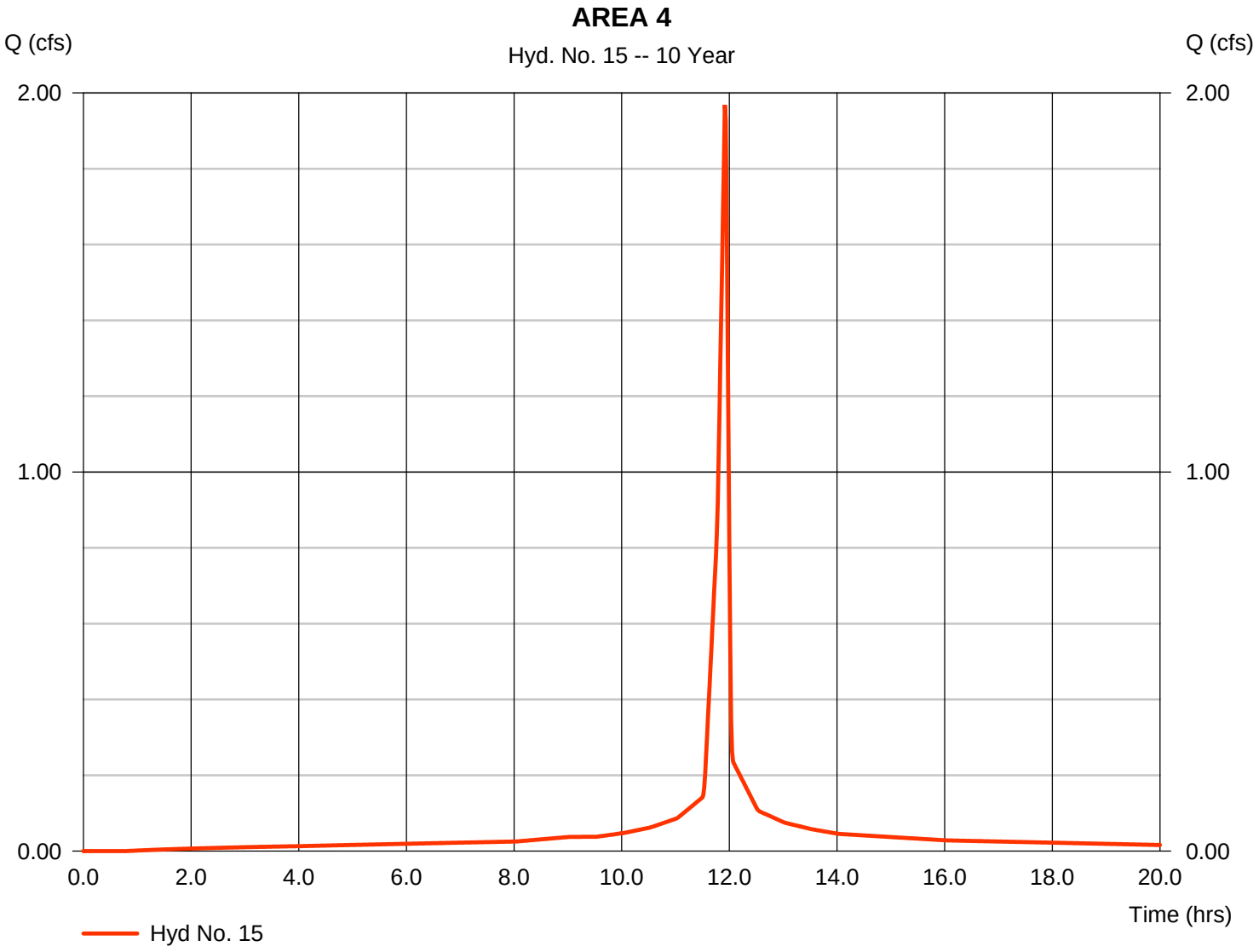


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.969 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.097 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	5.20 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

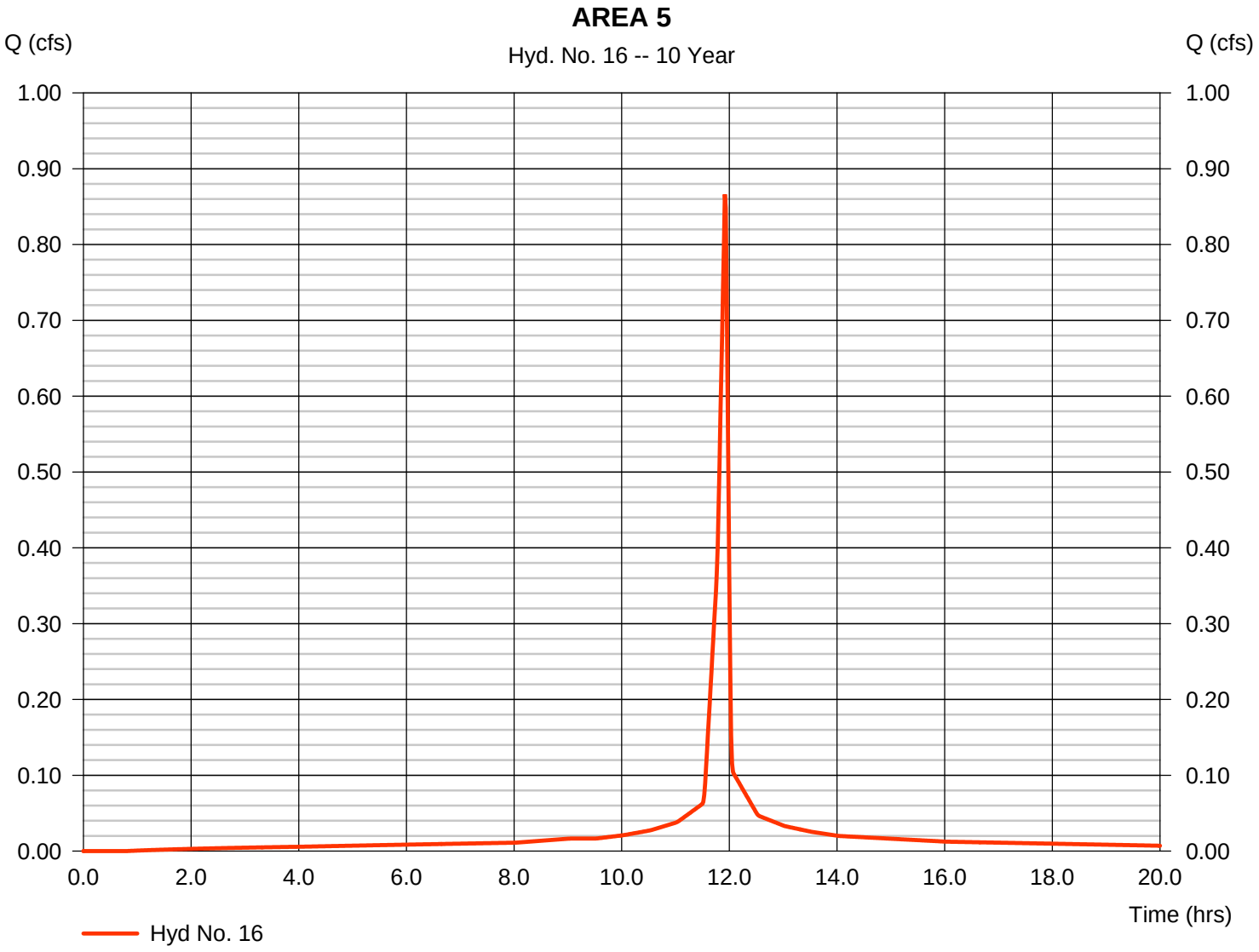


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	= SCS Runoff	Peak discharge	= 0.866 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.043 acft
Drainage area	= 0.110 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

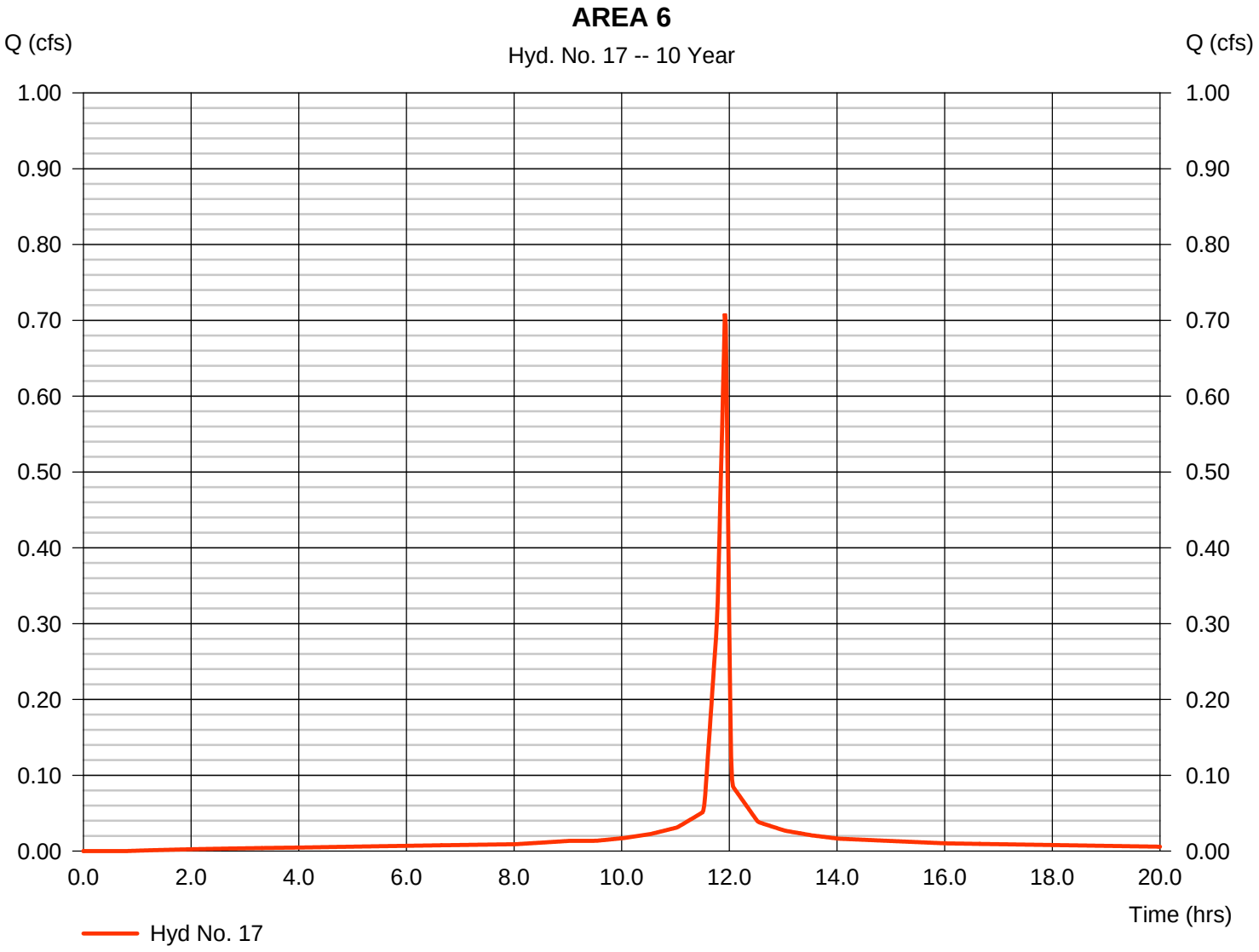


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.709 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.035 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

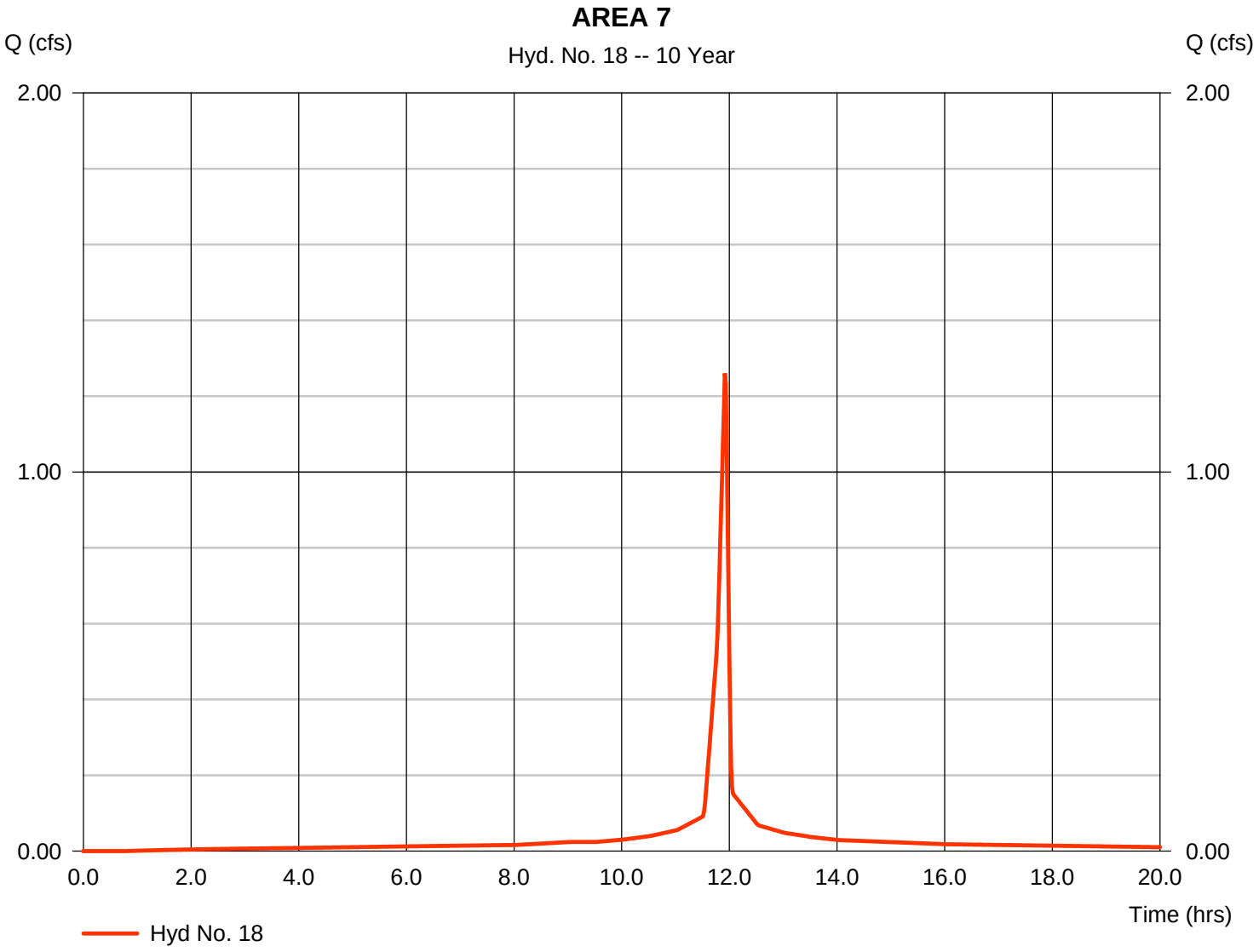


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.260 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.062 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

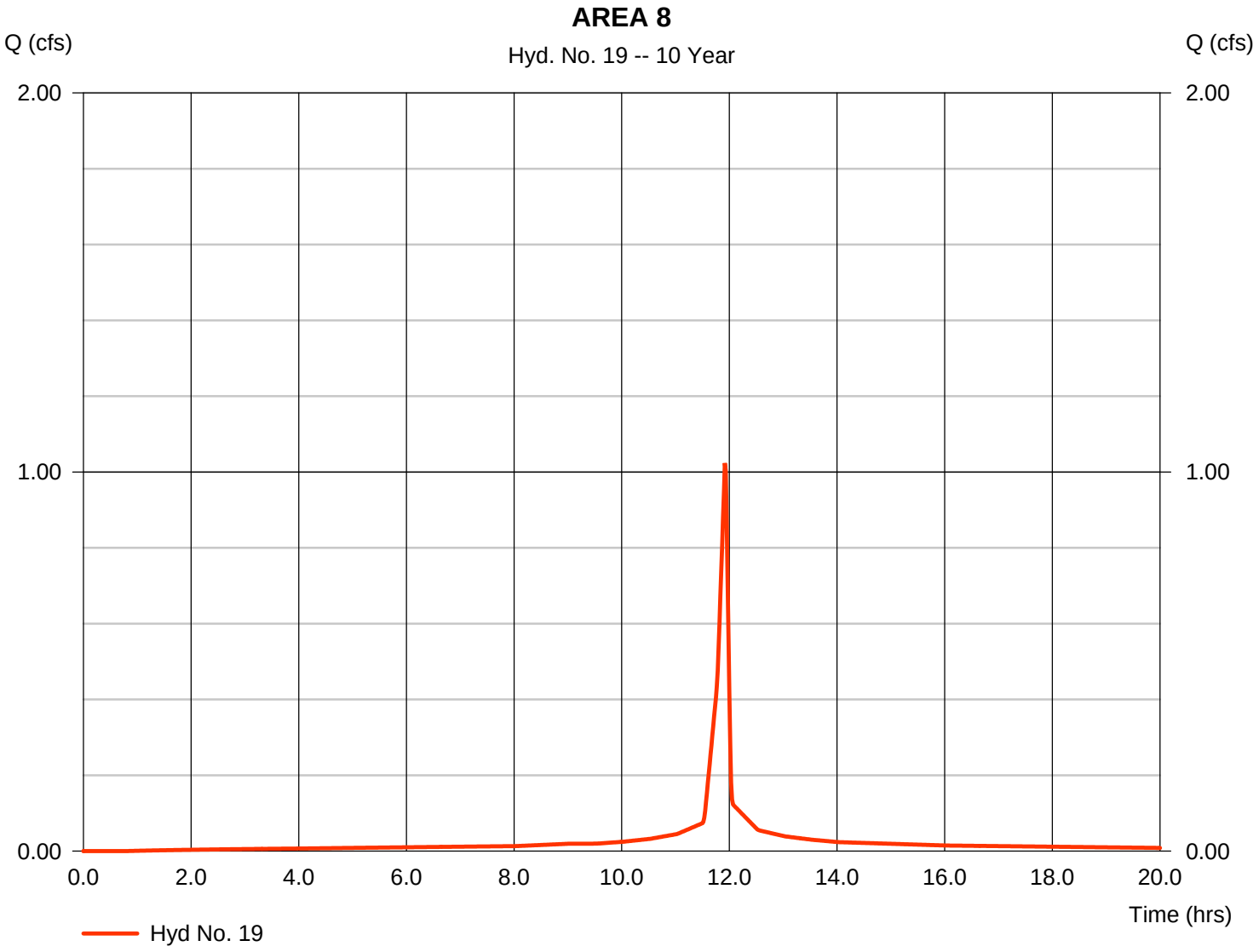


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 1.024 cfs
Storm frequency	= 10 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.050 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 5.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

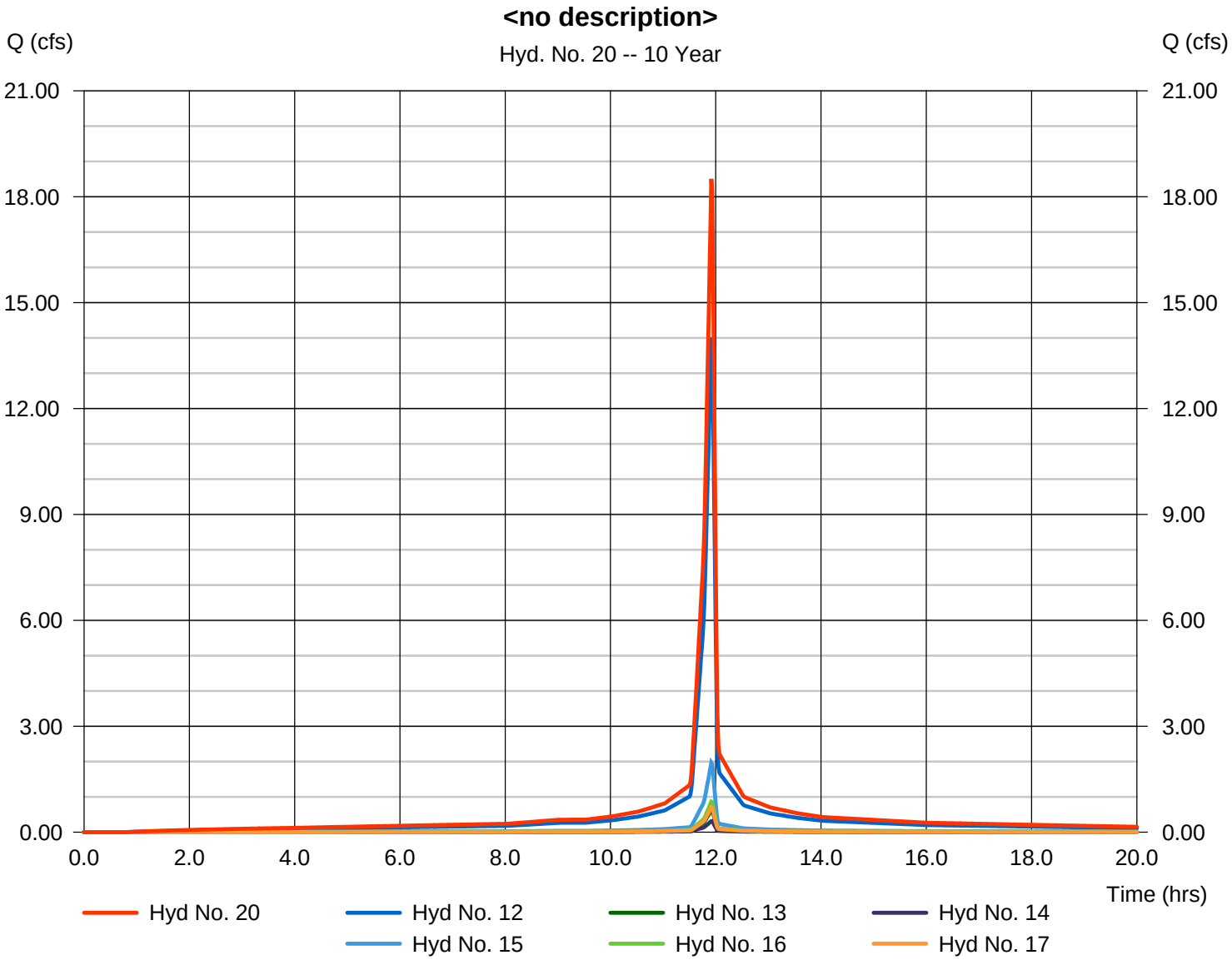


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	=	Combine	Peak discharge	=	18.50 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.911 acft
Inflow hyds.	=	12, 13, 14, 15, 16, 17	Contrib. drain. area	=	2.350 ac

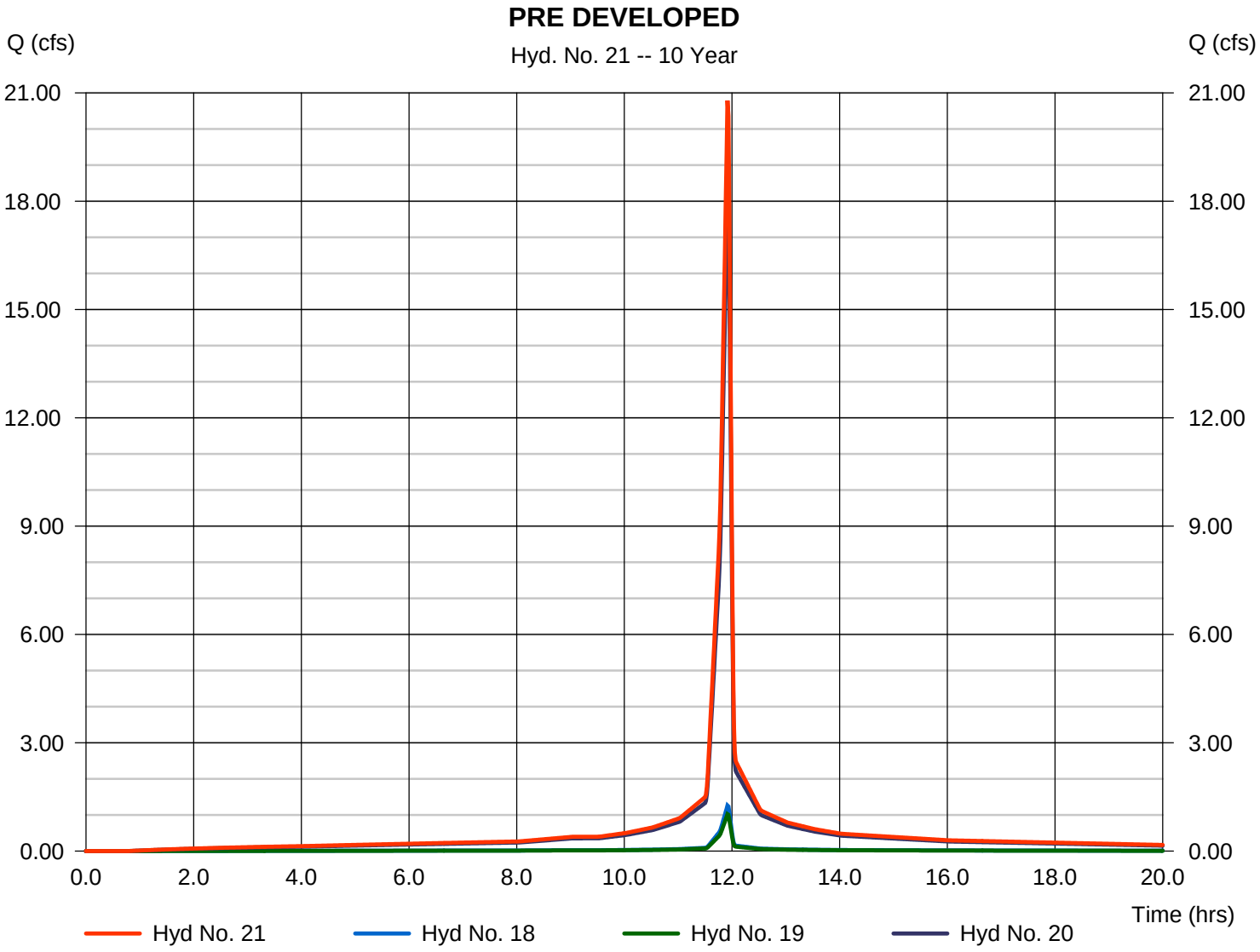


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	20.79 cfs
Storm frequency	=	10 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.024 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

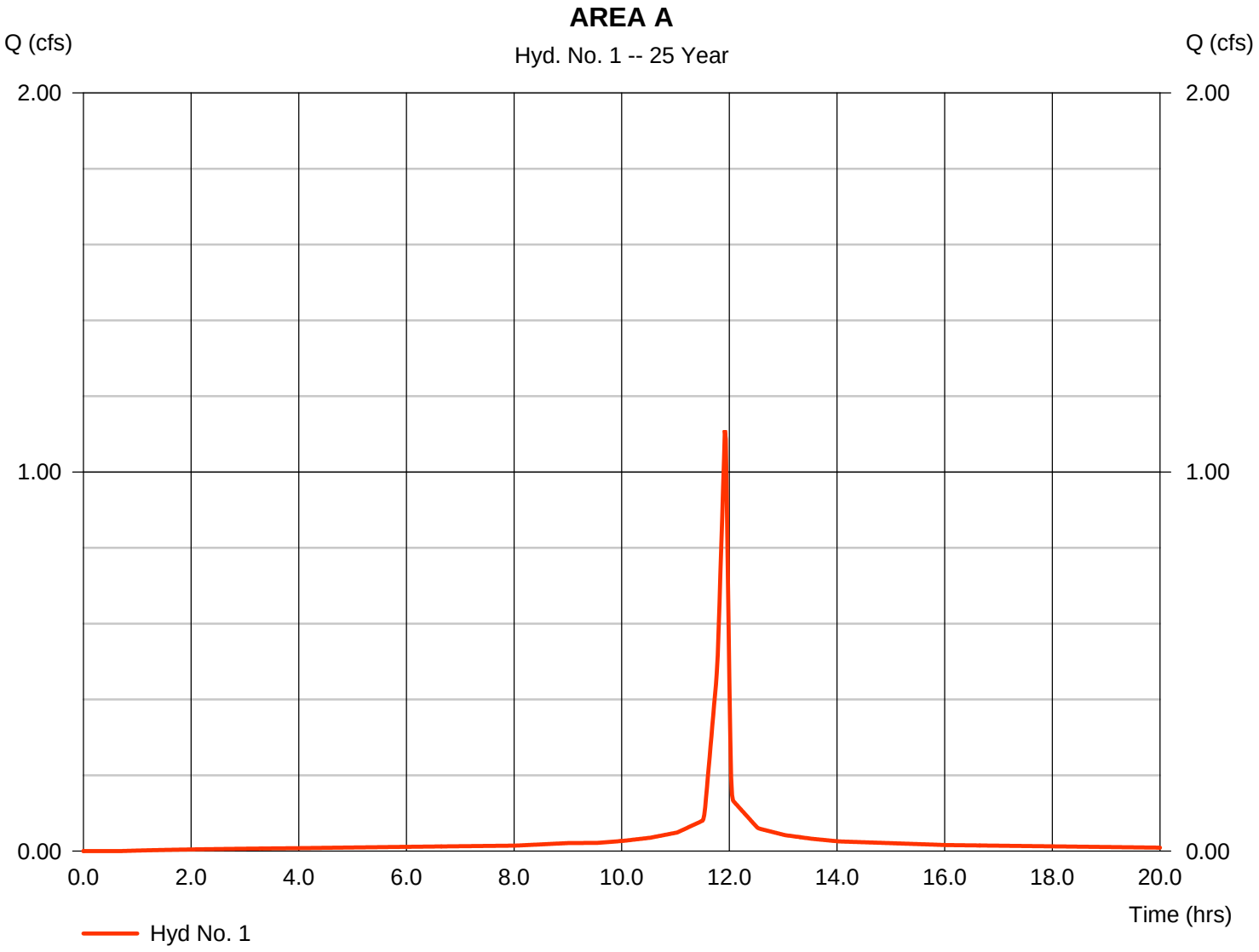
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	1.110	1	715	0.055	------	------	------	AREA A
2	SCS Runoff	3.422	1	715	0.169	------	------	------	AREA B
3	SCS Runoff	1.110	1	715	0.055	------	------	------	AREA C
4	SCS Runoff	3.237	1	715	0.160	------	------	------	AREA D
5	SCS Runoff	0.740	1	715	0.037	------	------	------	AREA E
6	SCS Runoff	2.312	1	715	0.114	------	------	------	AREA F
7	SCS Runoff	2.312	1	715	0.114	------	------	------	AREA G
8	SCS Runoff	1.757	1	715	0.087	------	------	------	AREA H
9	SCS Runoff	1.572	1	715	0.078	------	------	------	AREA I
10	Combine	11.93	1	715	0.591	1, 2, 3, 4, 5, 6,	------	------	<no description>
11	Combine	17.57	1	715	0.870	7, 8, 9, 10	------	------	Combined Post Developed
12	SCS Runoff	16.46	1	715	0.815	------	------	------	AREA 1
13	SCS Runoff	0.740	1	715	0.037	------	------	------	AREA 2
14	SCS Runoff	0.370	1	715	0.018	------	------	------	AREA 3
15	SCS Runoff	2.312	1	715	0.114	------	------	------	AREA 4
16	SCS Runoff	1.017	1	715	0.050	------	------	------	AREA 5
17	SCS Runoff	0.832	1	715	0.041	------	------	------	AREA 6
18	SCS Runoff	1.480	1	715	0.073	------	------	------	AREA 7
19	SCS Runoff	1.202	1	715	0.060	------	------	------	AREA 8
20	Combine	21.73	1	715	1.076	12, 13, 14, 15, 16, 17,	------	------	<no description>
21	Combine	24.42	1	715	1.209	18, 19, 20	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.110 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.055 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

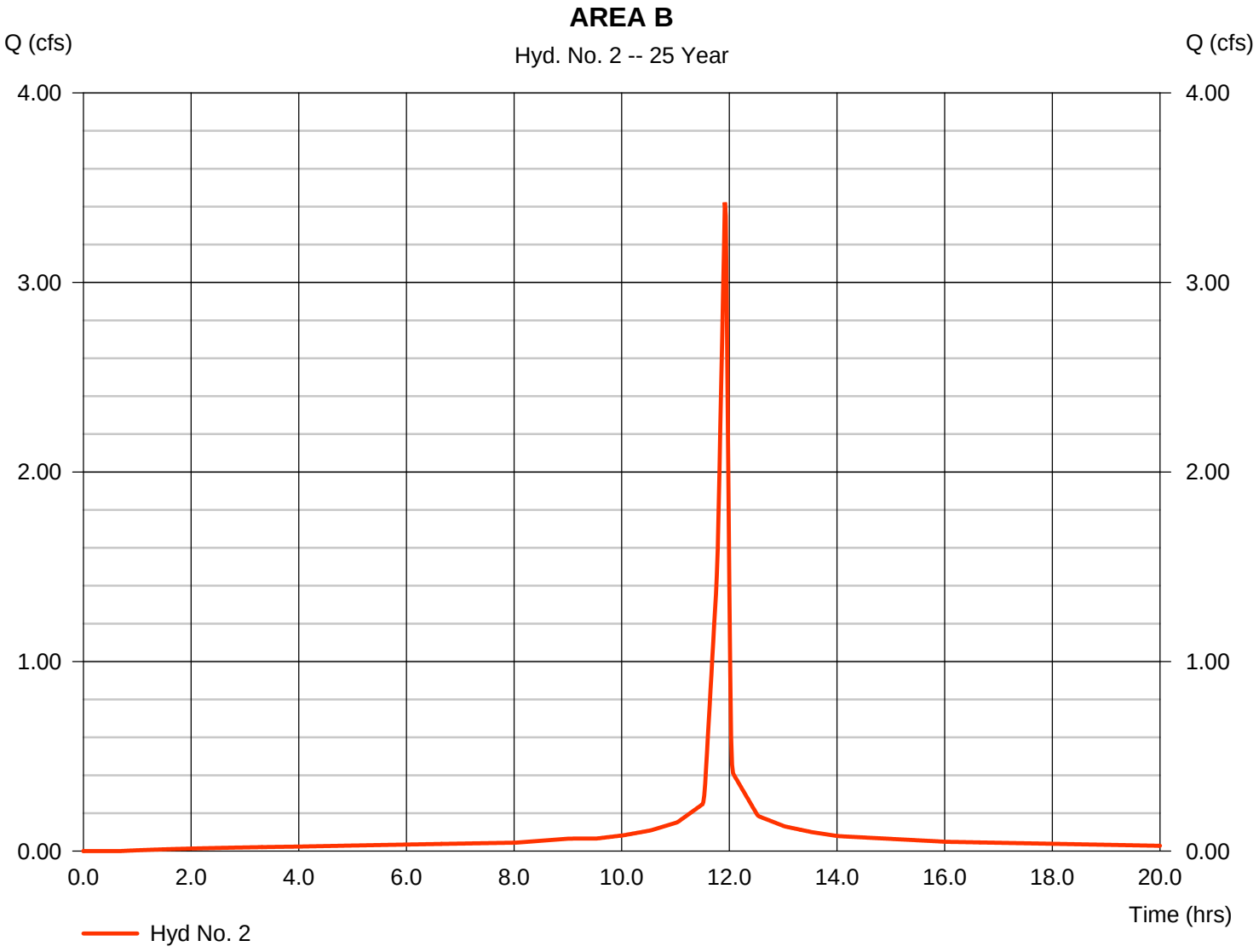


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	=	SCS Runoff	Peak discharge	=	3.422 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.169 acft
Drainage area	=	0.370 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

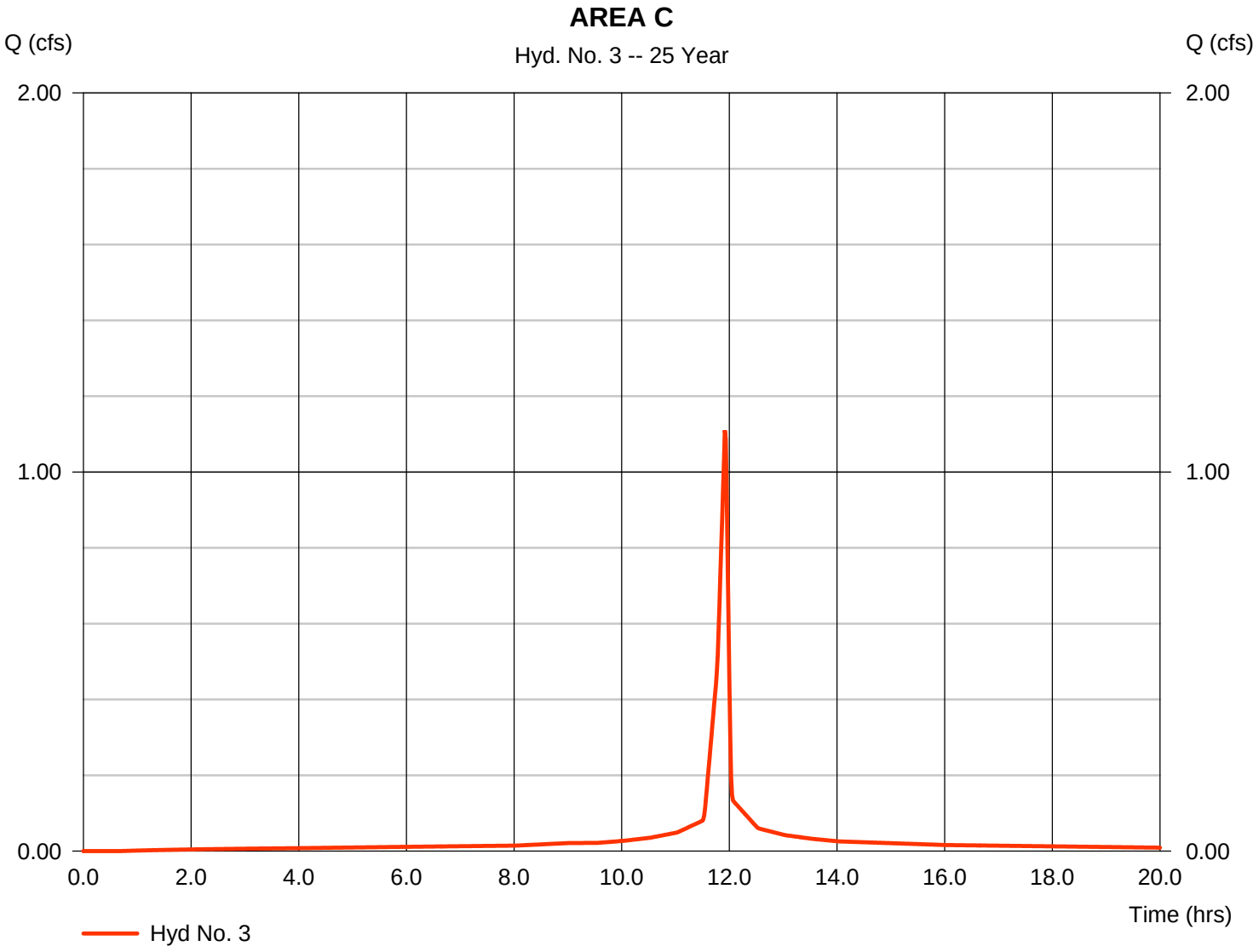


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.110 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.055 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

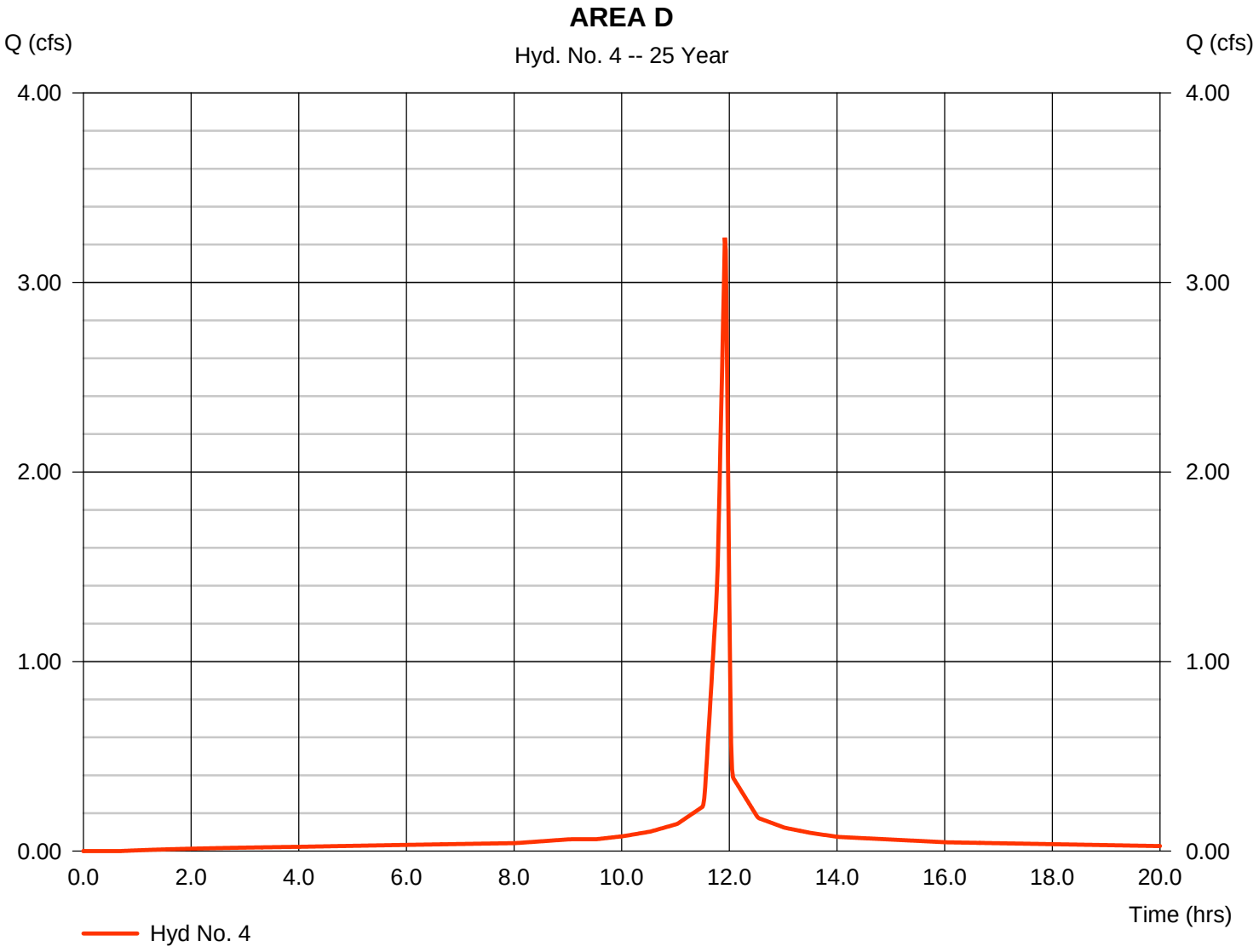


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	=	SCS Runoff	Peak discharge	=	3.237 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.160 acft
Drainage area	=	0.350 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	1.70 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

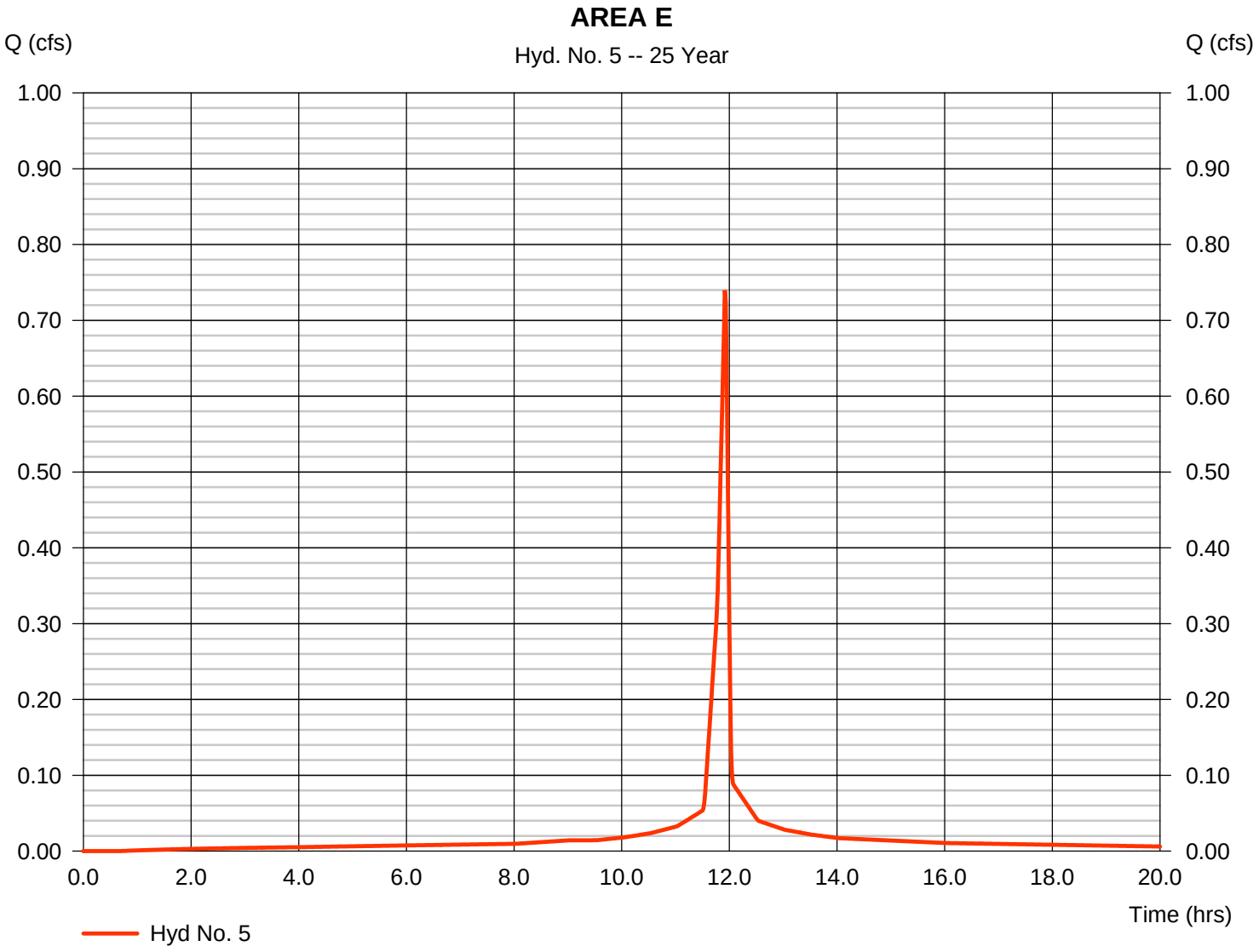


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.740 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.037 acft
Drainage area	=	0.080 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

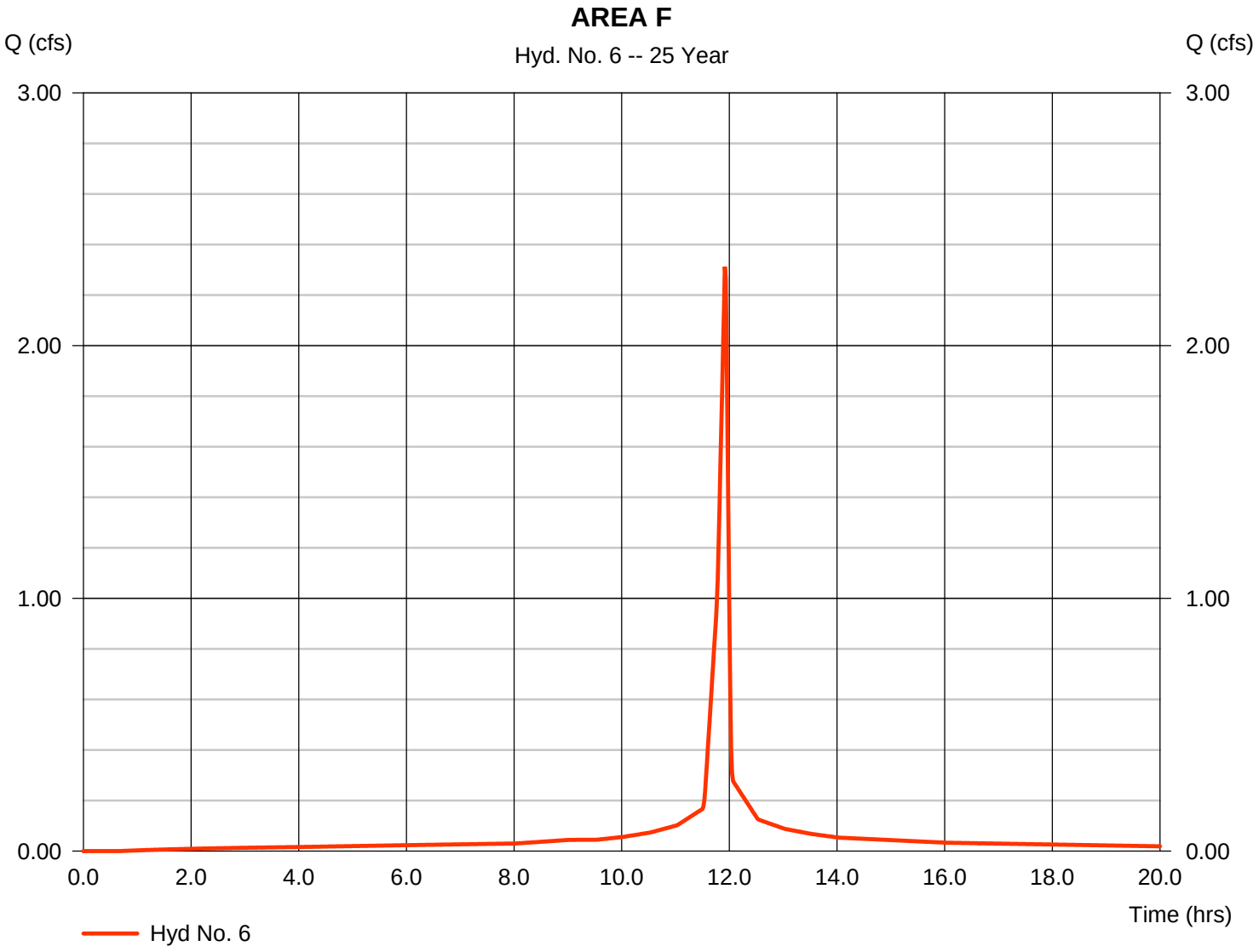


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.312 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.114 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

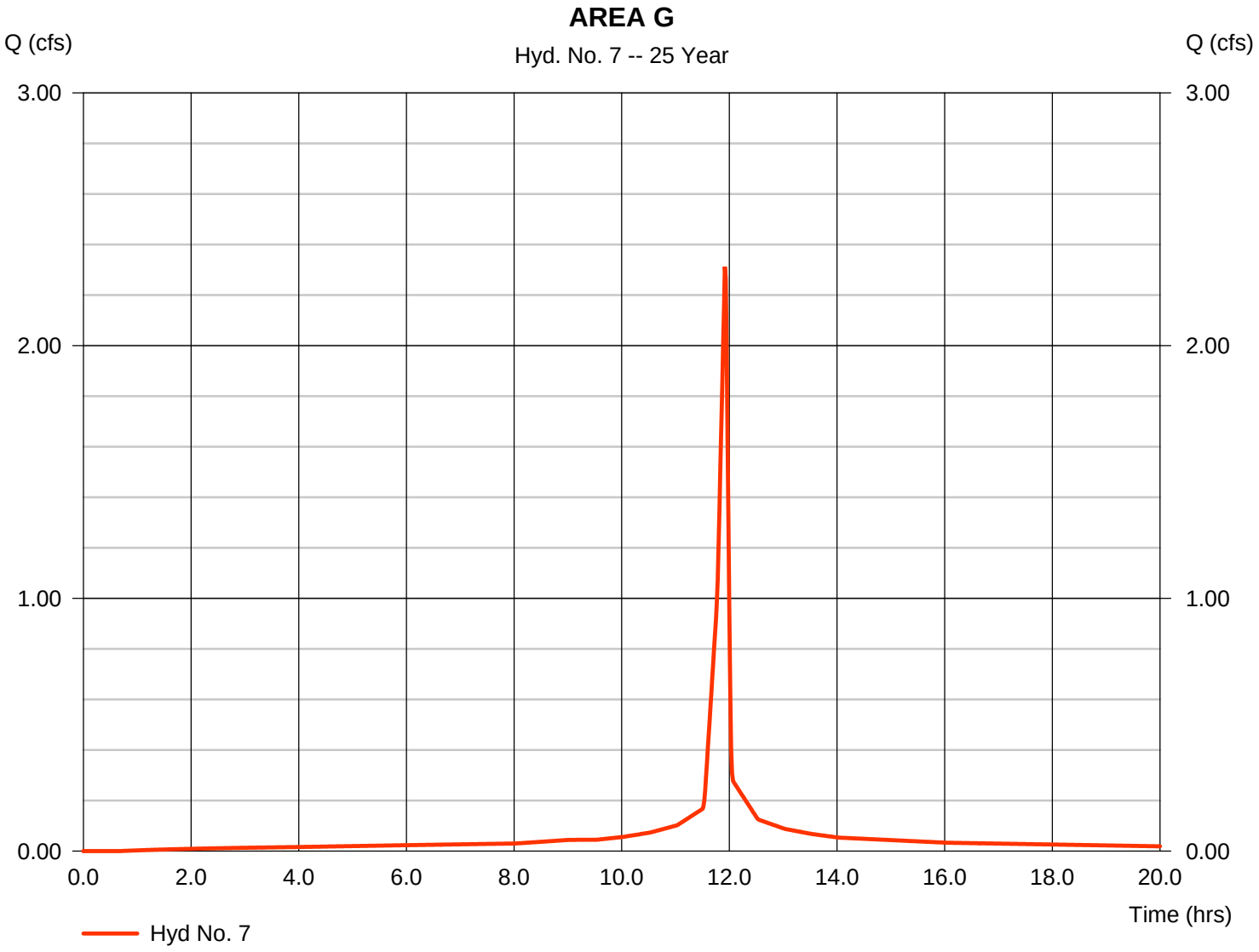


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 2.312 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.114 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

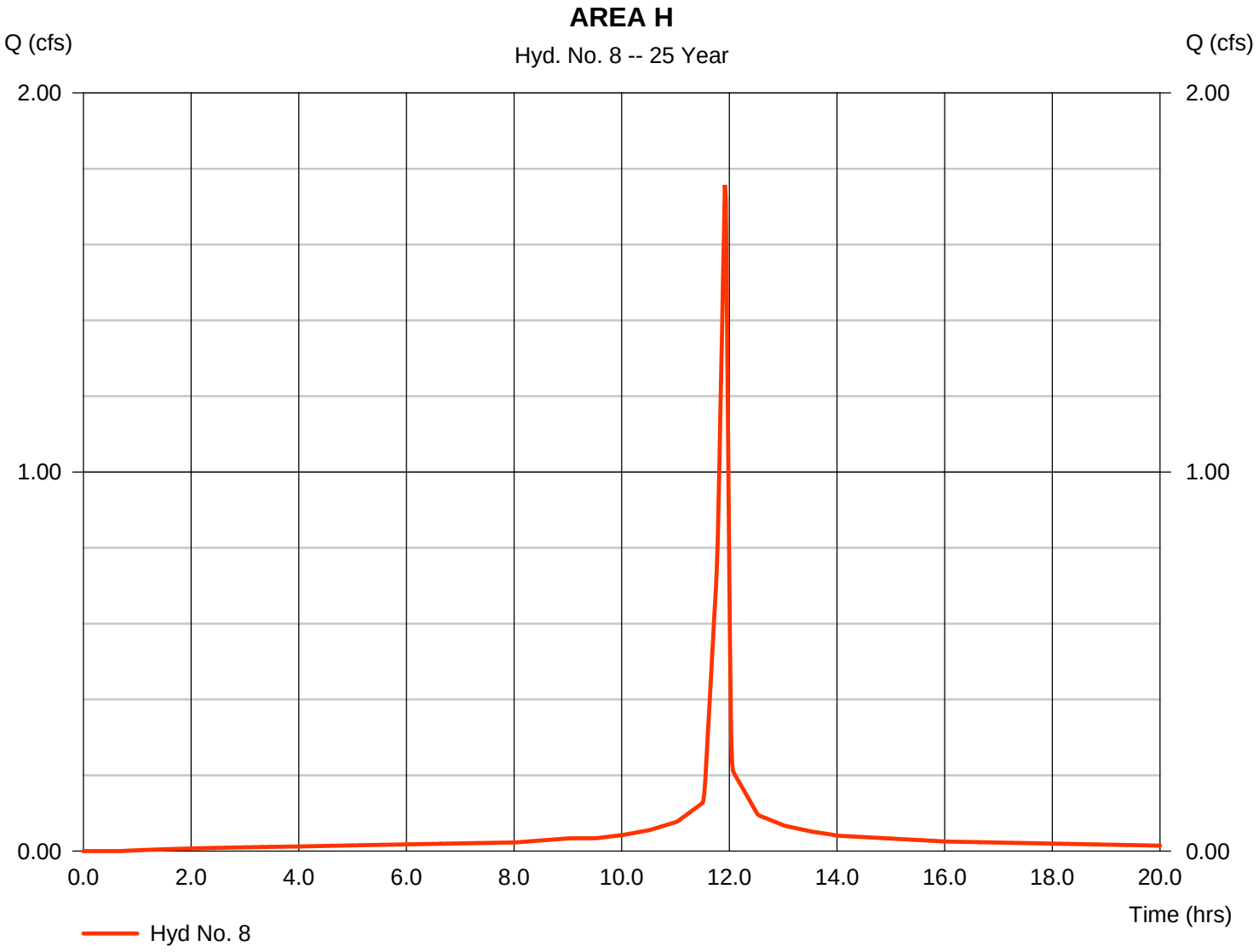


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.757 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.087 acft
Drainage area	=	0.190 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

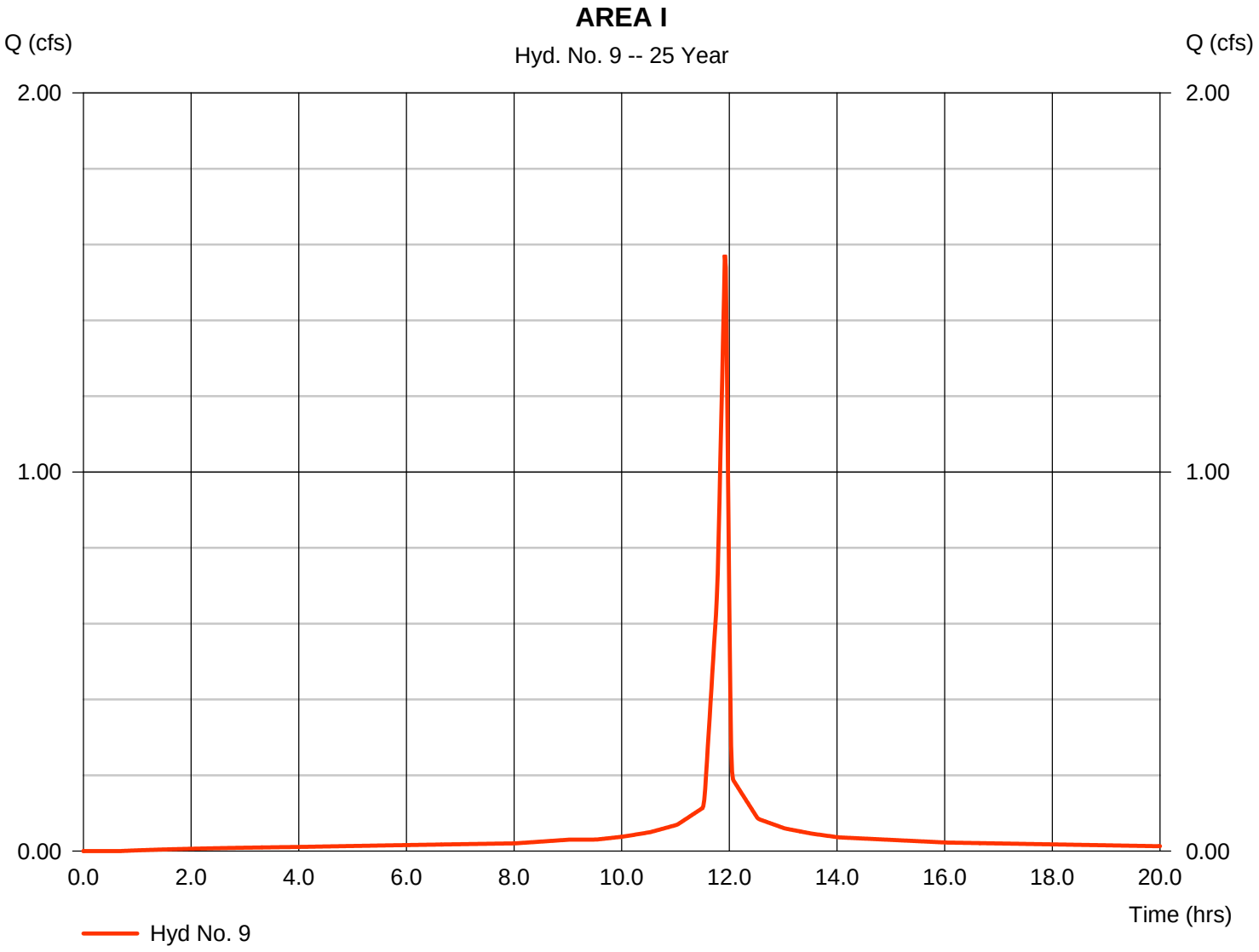


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.572 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.078 acft
Drainage area	=	0.170 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

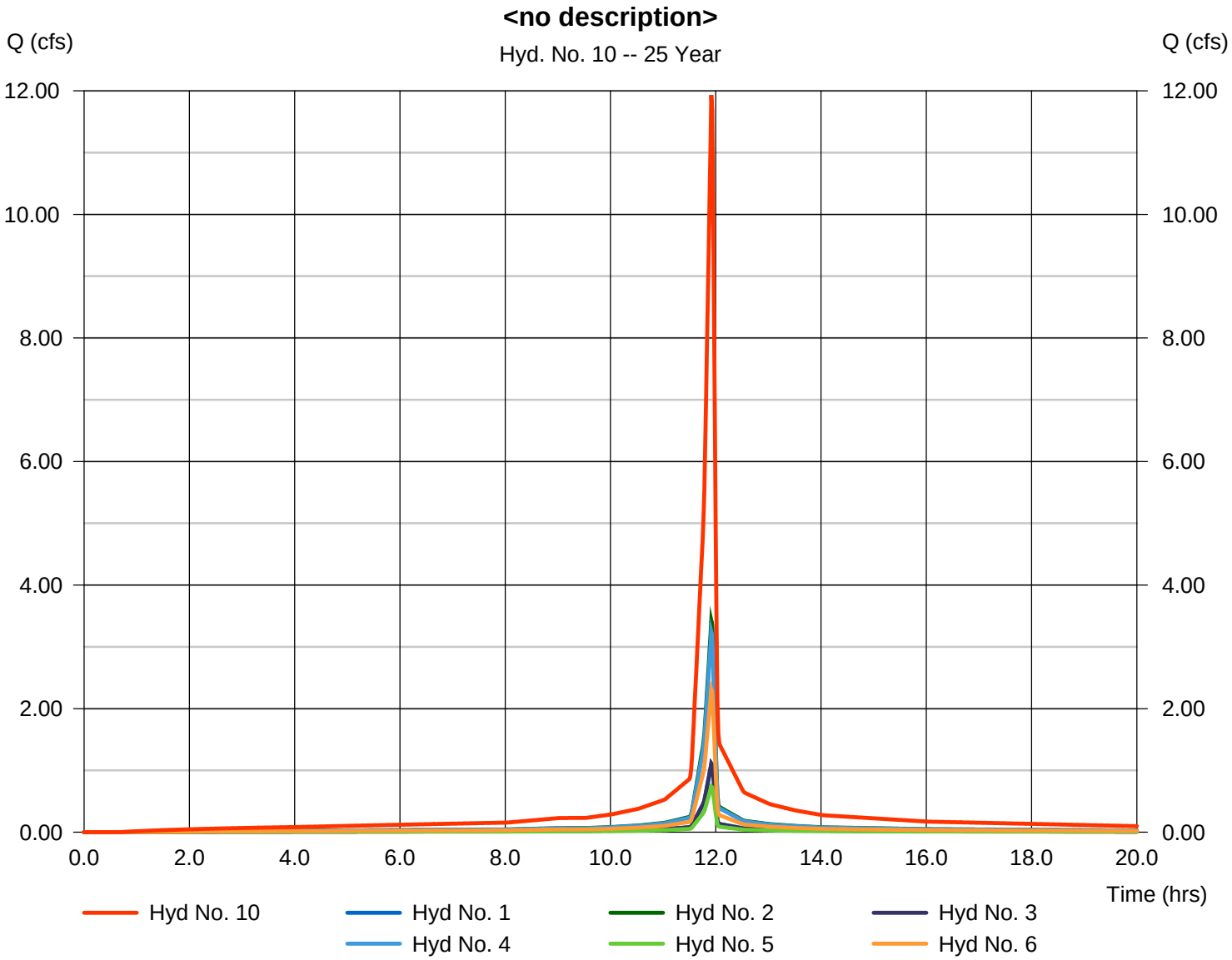


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	= Combine	Peak discharge	= 11.93 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.591 acft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 1.290 ac

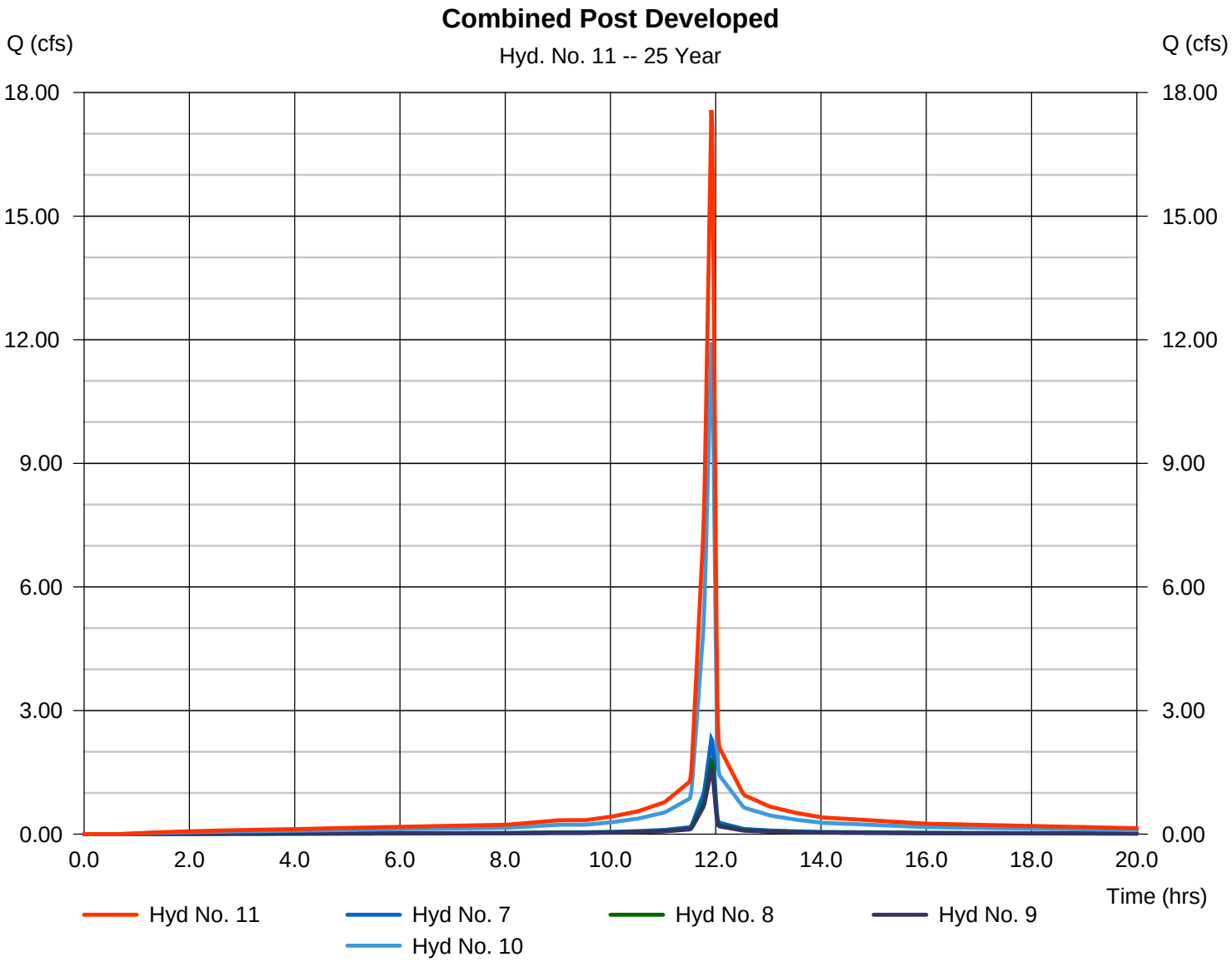


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	=	Combine	Peak discharge	=	17.57 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.870 acft
Inflow hyds.	=	7, 8, 9, 10	Contrib. drain. area	=	0.610 ac

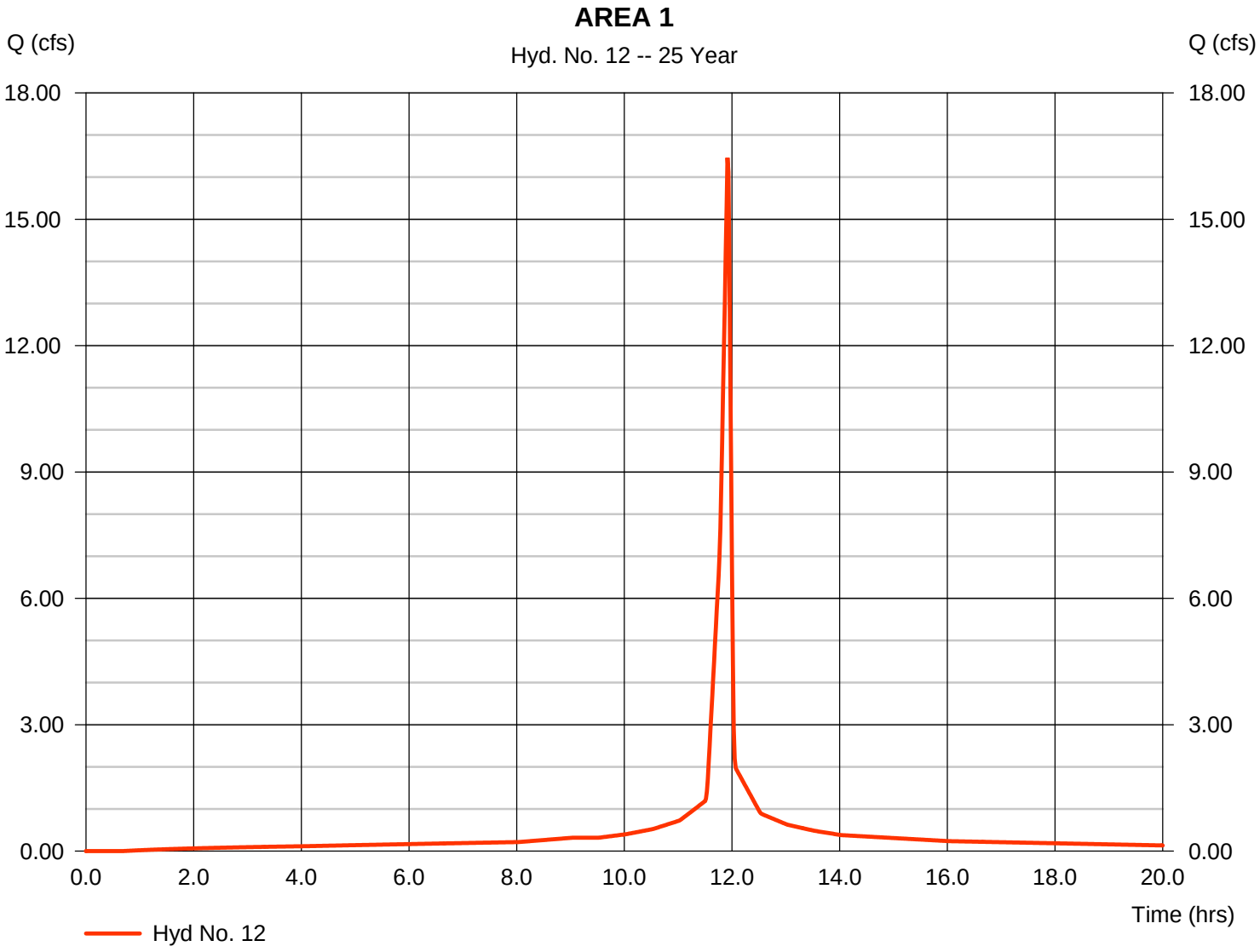


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 16.46 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.815 acft
Drainage area	= 1.780 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

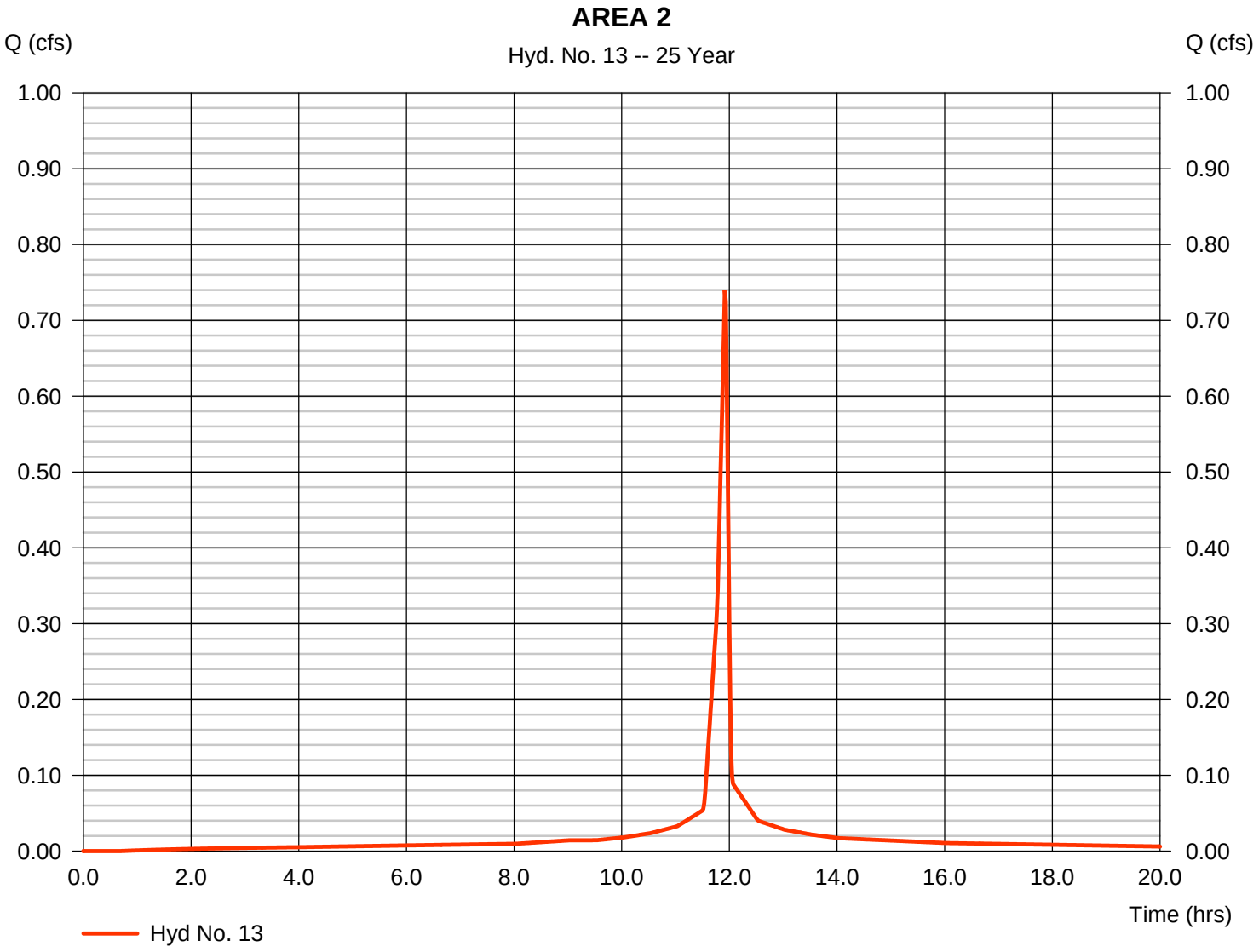


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.740 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.037 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

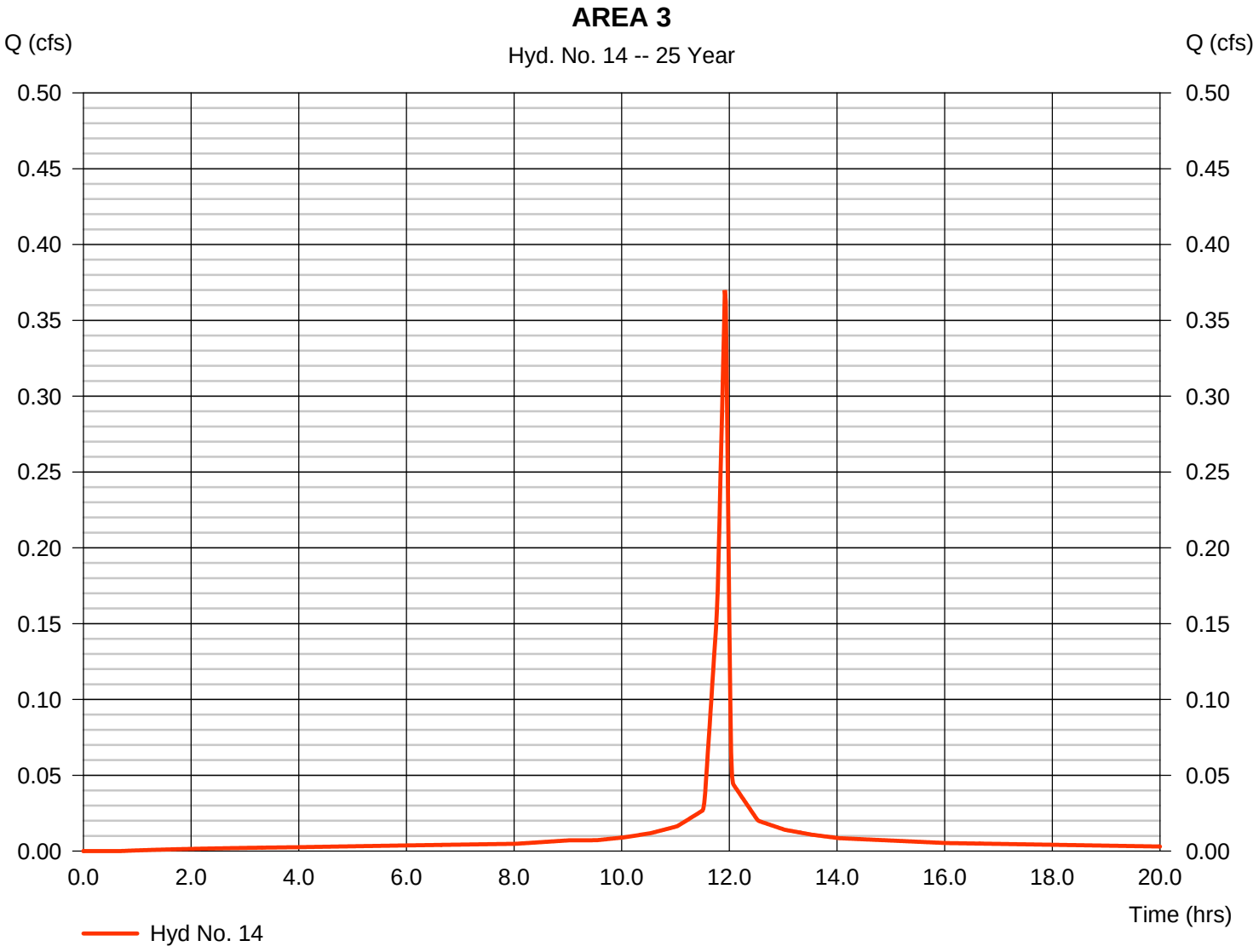


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.370 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.018 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

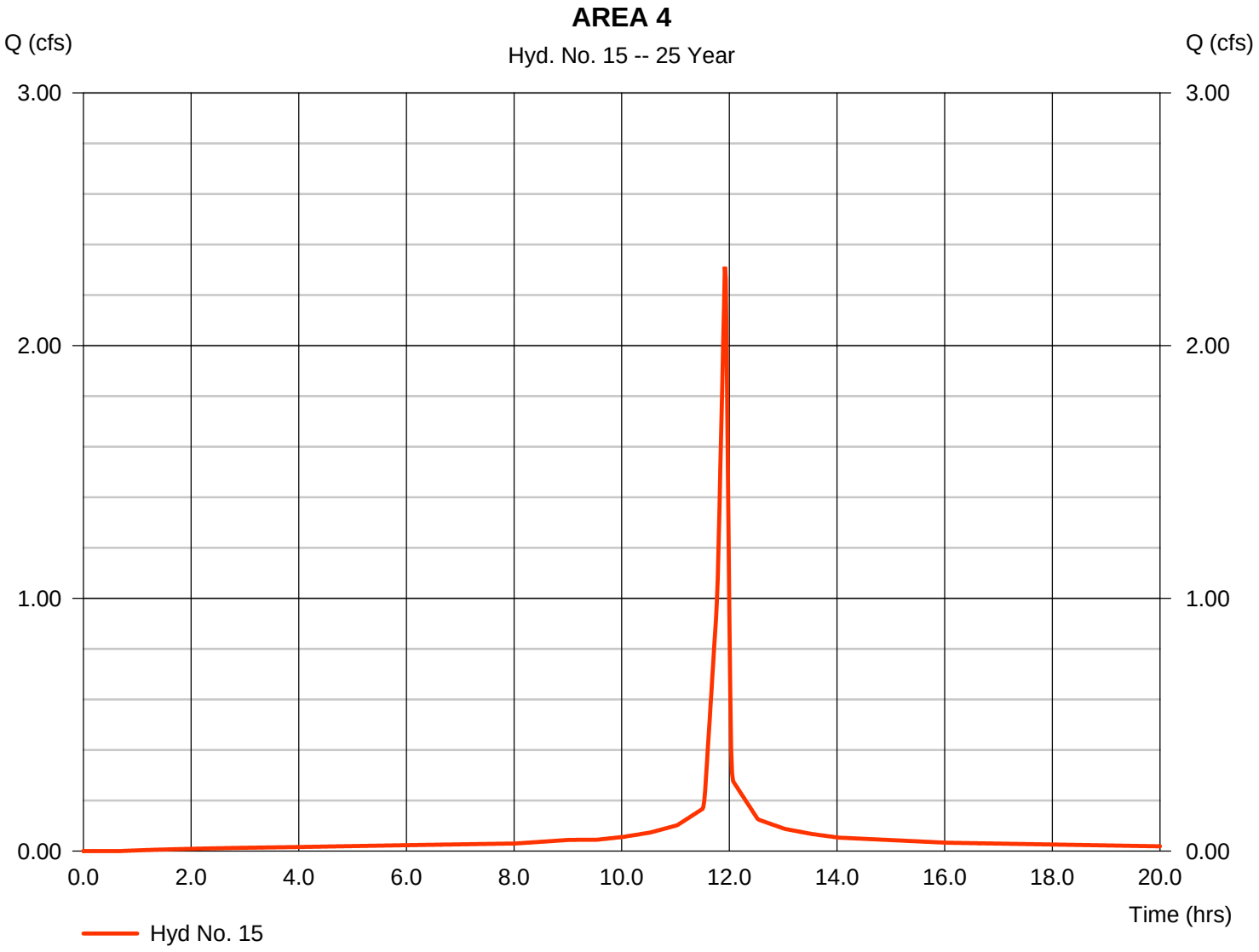


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.312 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.114 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

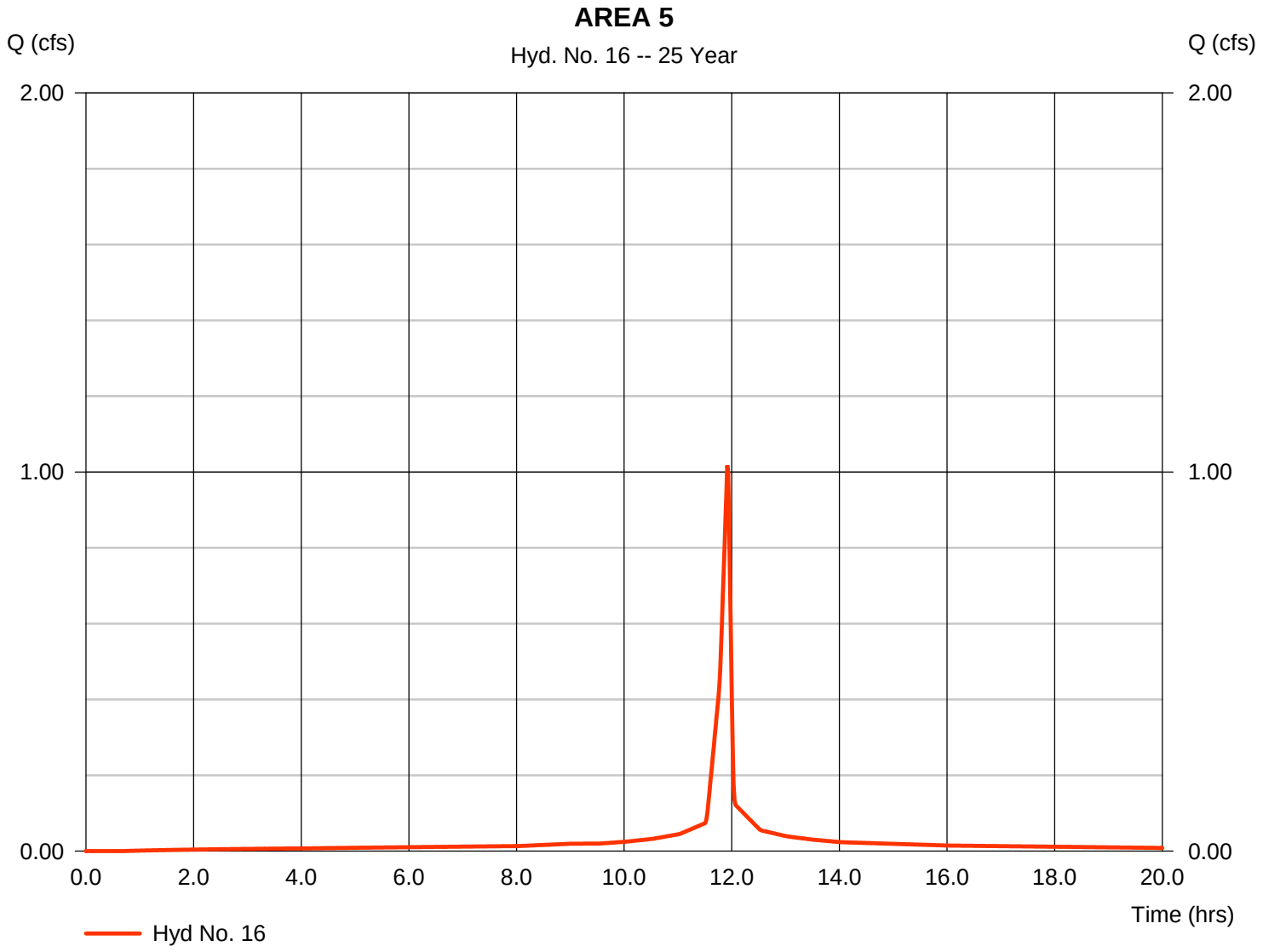


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.017 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.050 acft
Drainage area	=	0.110 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.10 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

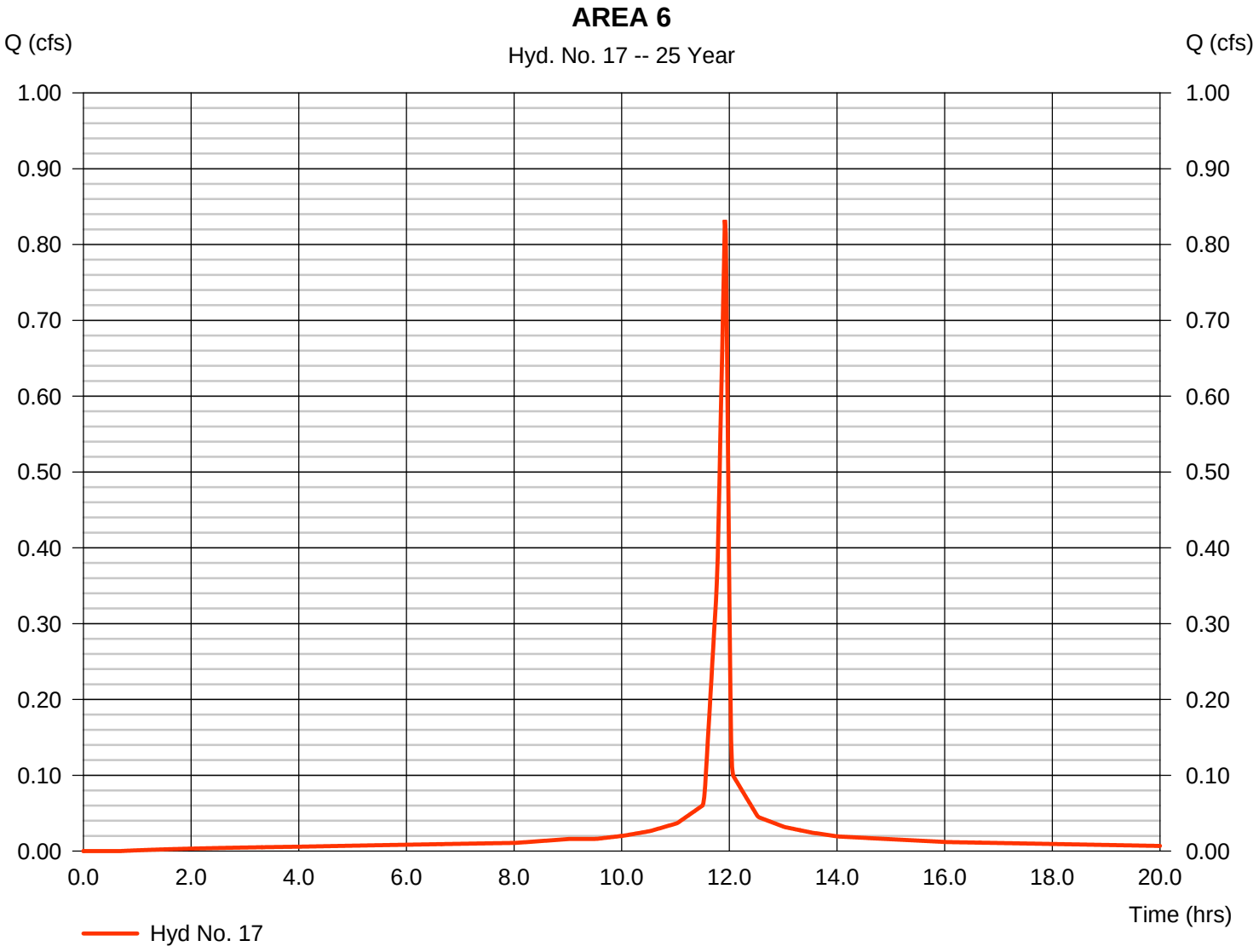


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.832 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.041 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

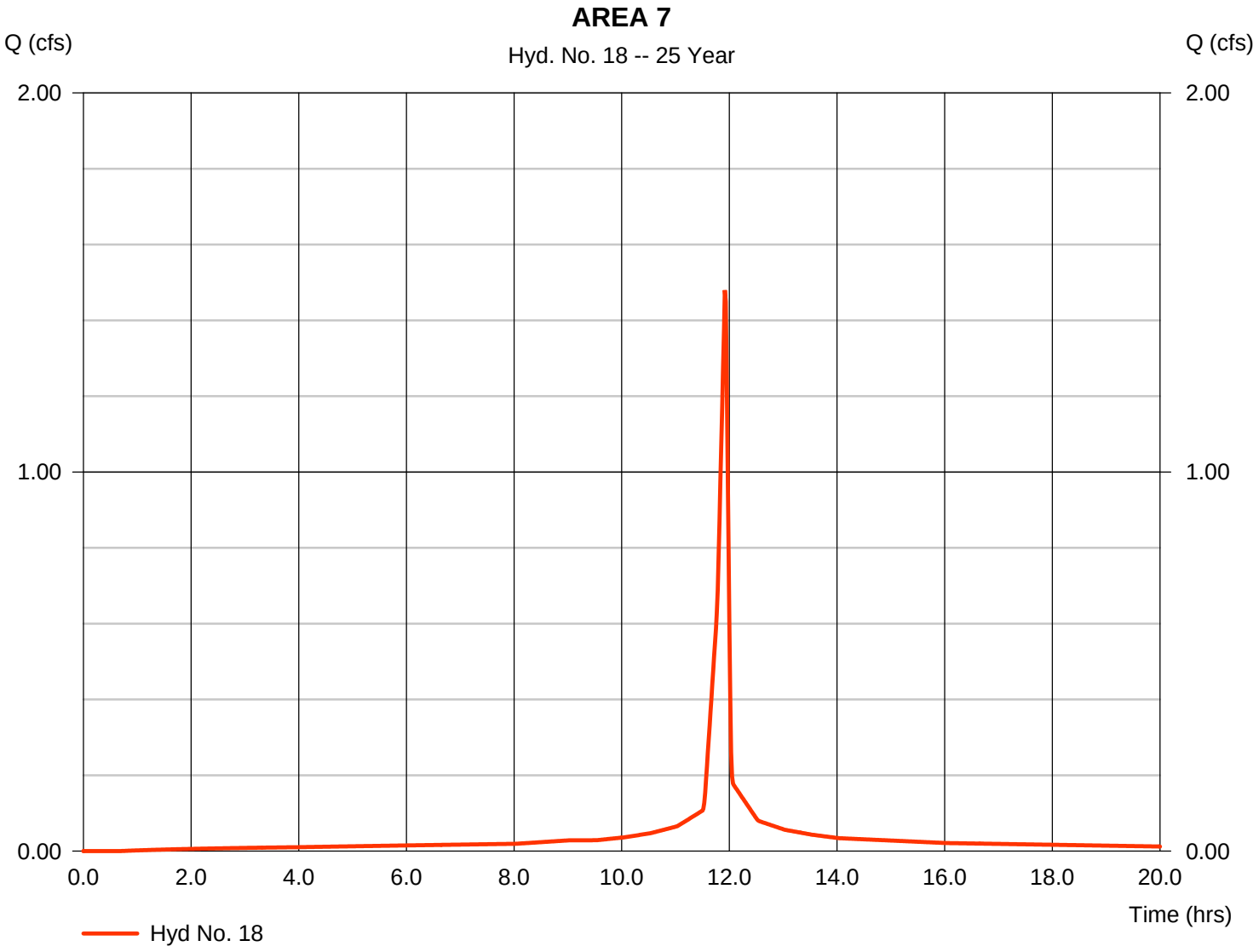


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.480 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.073 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

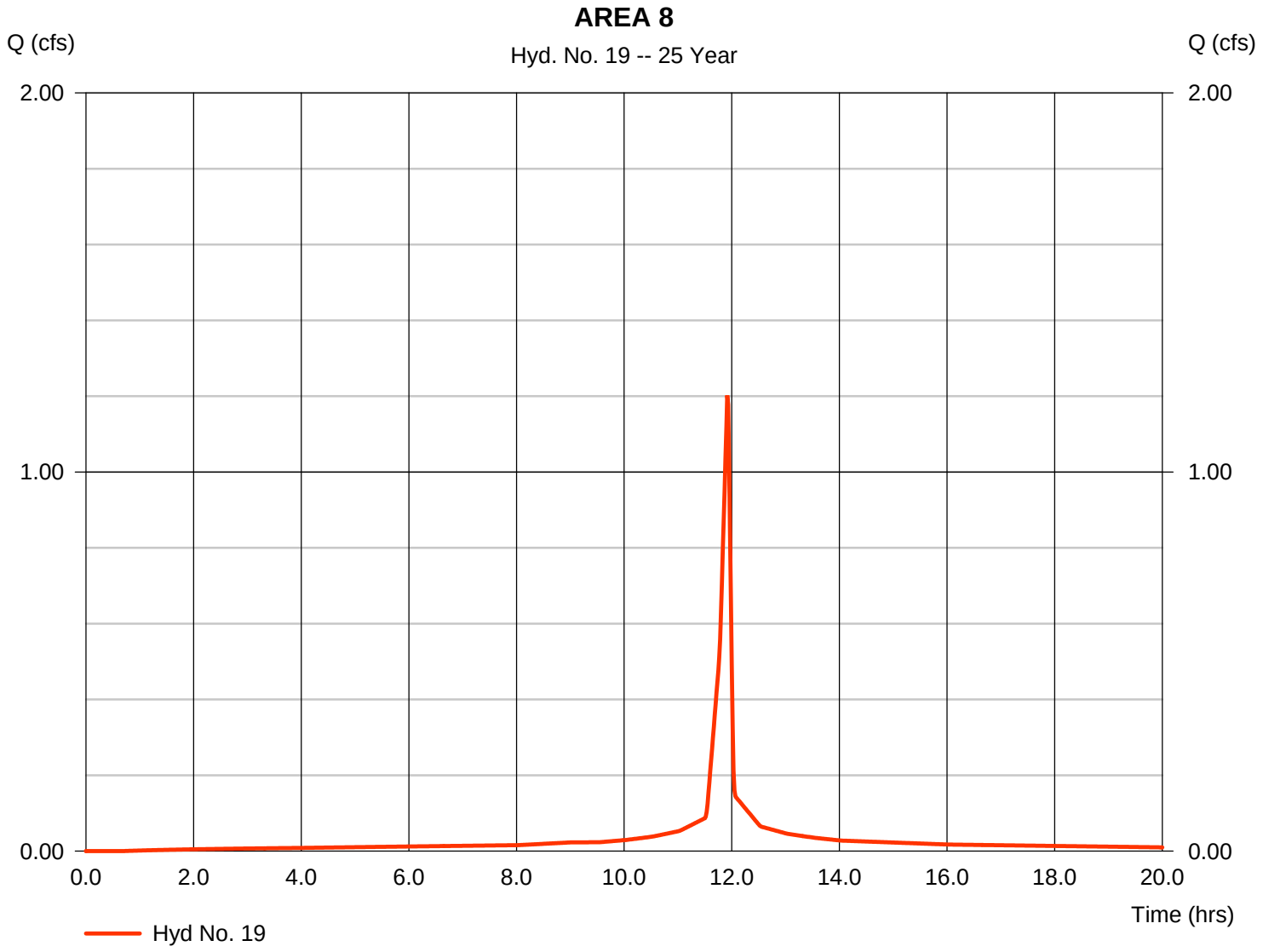


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 1.202 cfs
Storm frequency	= 25 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.060 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.10 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

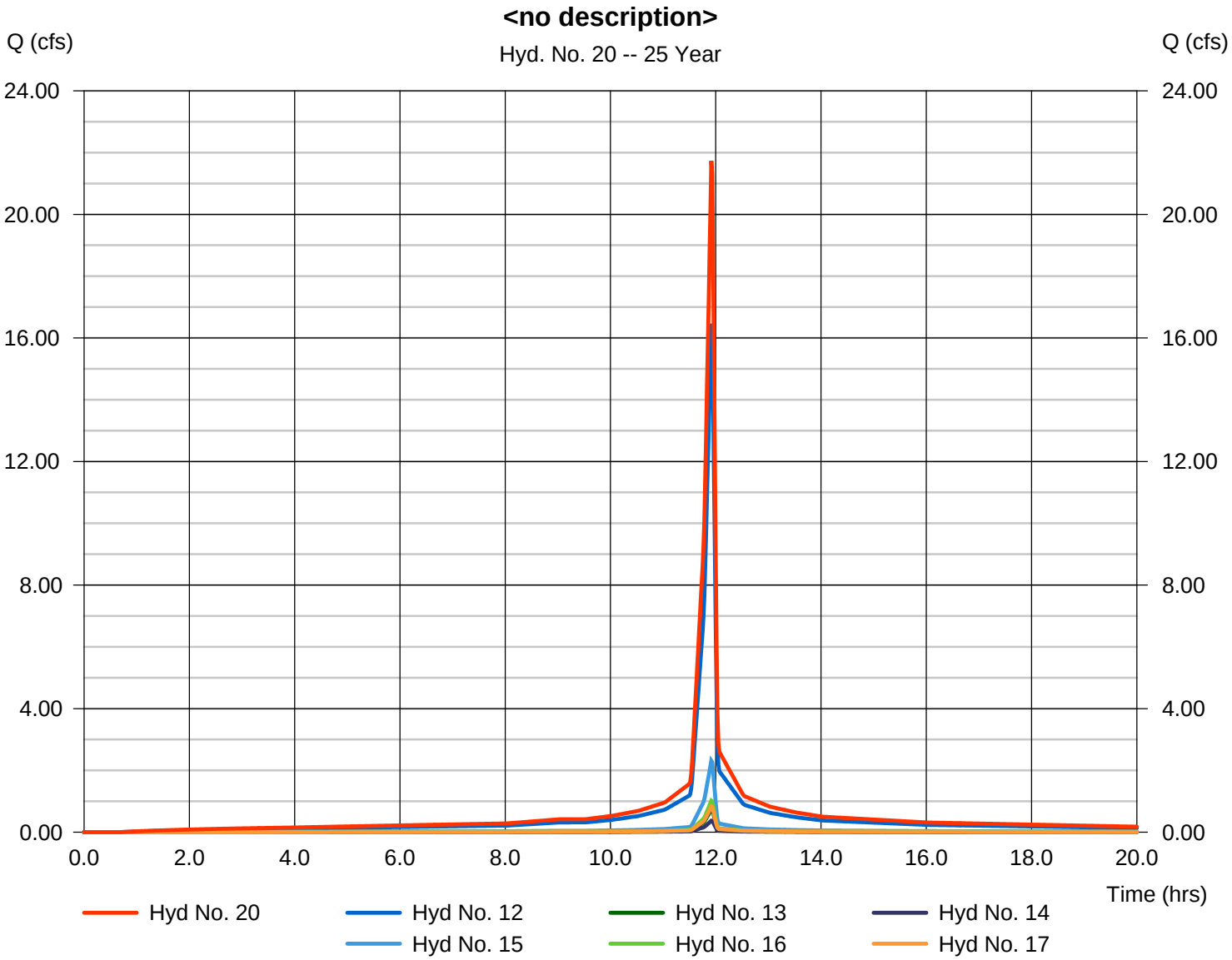


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	=	Combine	Peak discharge	=	21.73 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.076 acft
Inflow hyds.	=	12, 13, 14, 15, 16, 17	Contrib. drain. area	=	2.350 ac

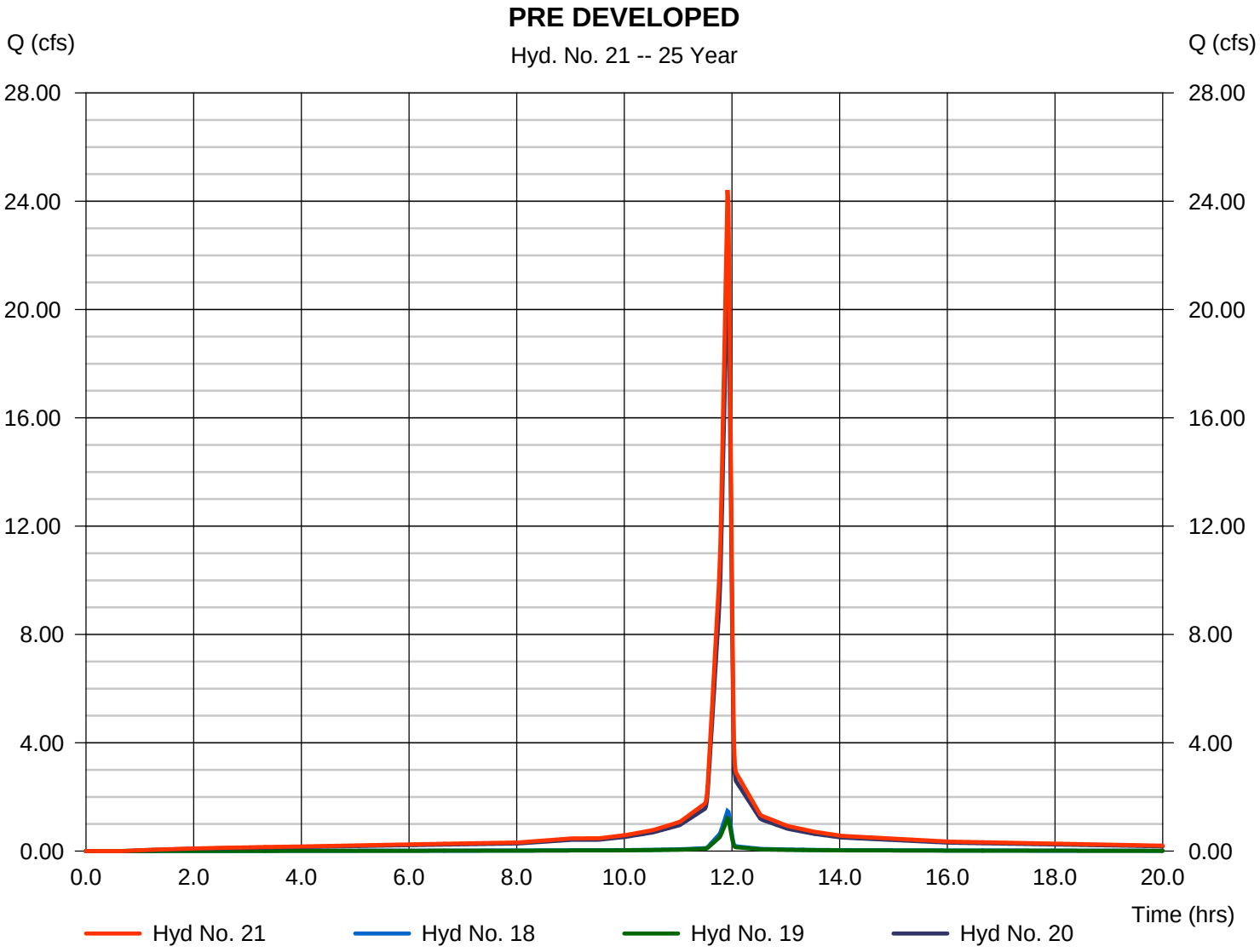


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	24.42 cfs
Storm frequency	=	25 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.209 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

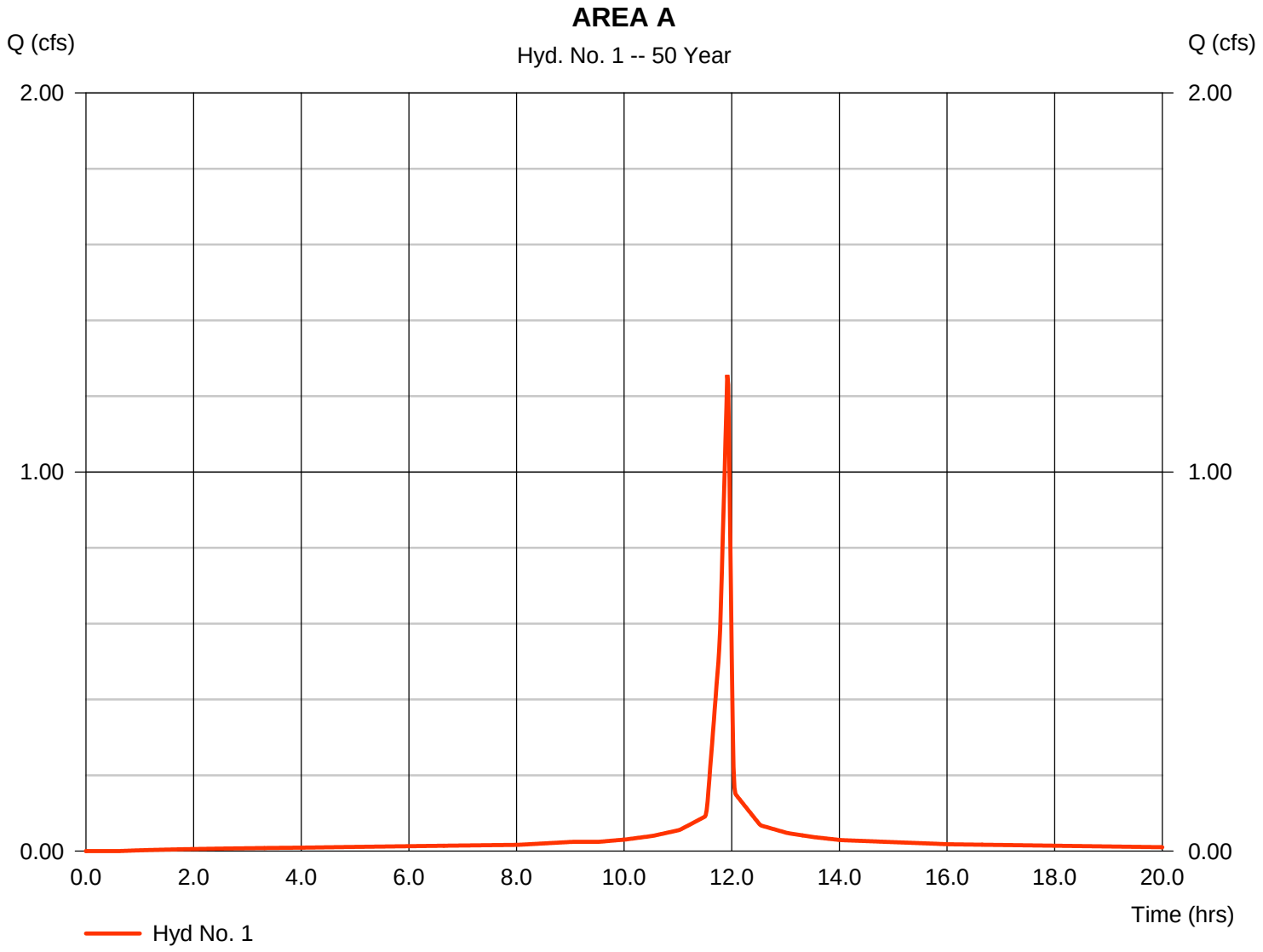
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	1.256	1	715	0.062	------	------	------	AREA A
2	SCS Runoff	3.873	1	715	0.193	------	------	------	AREA B
3	SCS Runoff	1.256	1	715	0.062	------	------	------	AREA C
4	SCS Runoff	3.664	1	715	0.182	------	------	------	AREA D
5	SCS Runoff	0.837	1	715	0.042	------	------	------	AREA E
6	SCS Runoff	2.617	1	715	0.130	------	------	------	AREA F
7	SCS Runoff	2.617	1	715	0.130	------	------	------	AREA G
8	SCS Runoff	1.989	1	715	0.099	------	------	------	AREA H
9	SCS Runoff	1.780	1	715	0.088	------	------	------	AREA I
10	Combine	13.50	1	715	0.671	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	------	------	<no description>
11	Combine	19.89	1	715	0.989	------	------	------	Combined Post Developed
12	SCS Runoff	18.63	1	715	0.926	------	------	------	AREA 1
13	SCS Runoff	0.837	1	715	0.042	------	------	------	AREA 2
14	SCS Runoff	0.419	1	715	0.021	------	------	------	AREA 3
15	SCS Runoff	2.617	1	715	0.130	------	------	------	AREA 4
16	SCS Runoff	1.152	1	715	0.057	------	------	------	AREA 5
17	SCS Runoff	0.942	1	715	0.047	------	------	------	AREA 6
18	SCS Runoff	1.675	1	715	0.083	------	------	------	AREA 7
19	SCS Runoff	1.361	1	715	0.068	------	------	------	AREA 8
20	Combine	24.60	1	715	1.223	12, 13, 14, 15, 16, 17, 18, 19, 20	------	------	<no description>
21	Combine	27.64	1	715	1.374	------	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	= SCS Runoff	Peak discharge	= 1.256 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.062 acft
Drainage area	= 0.120 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

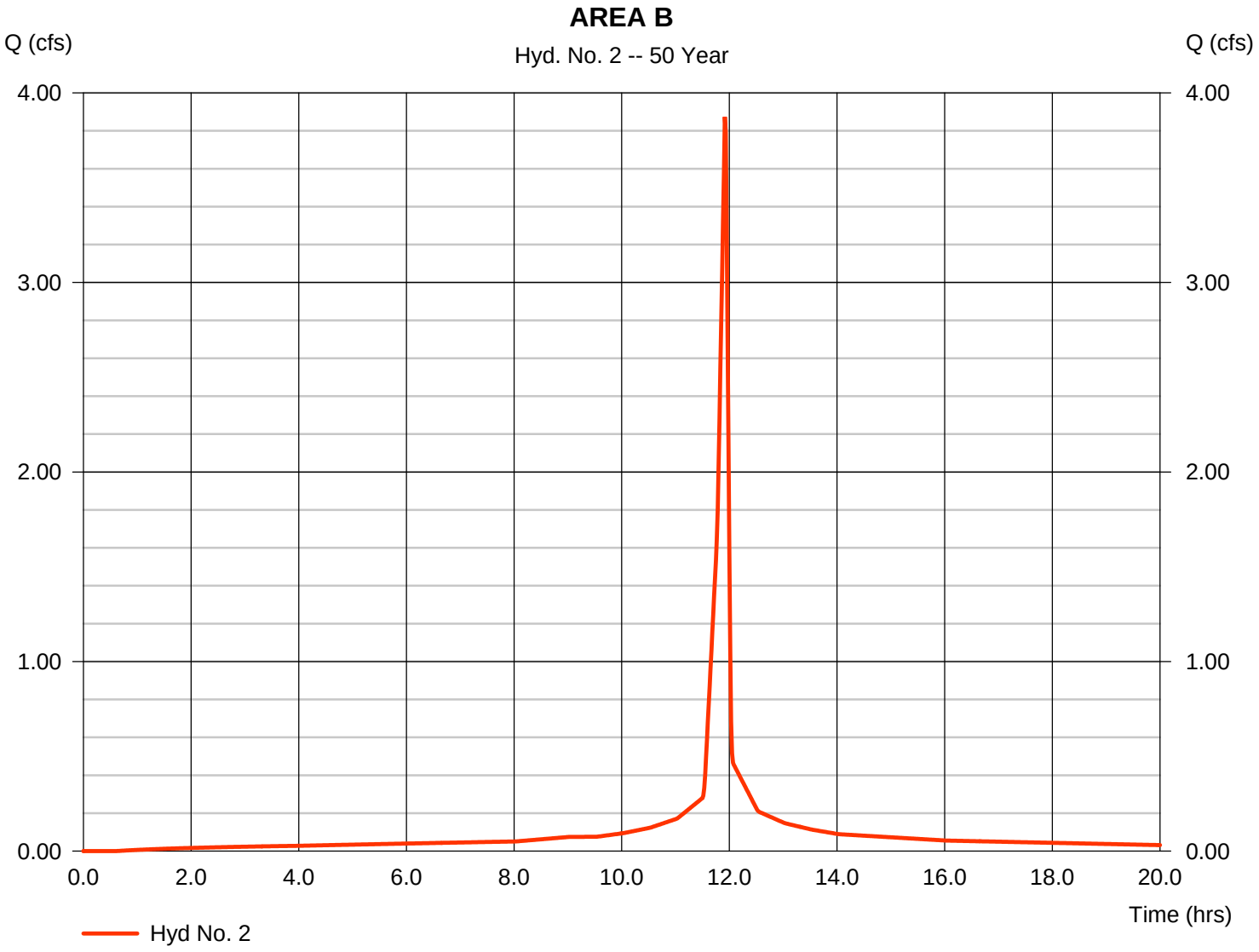


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	= SCS Runoff	Peak discharge	= 3.873 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.193 acft
Drainage area	= 0.370 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

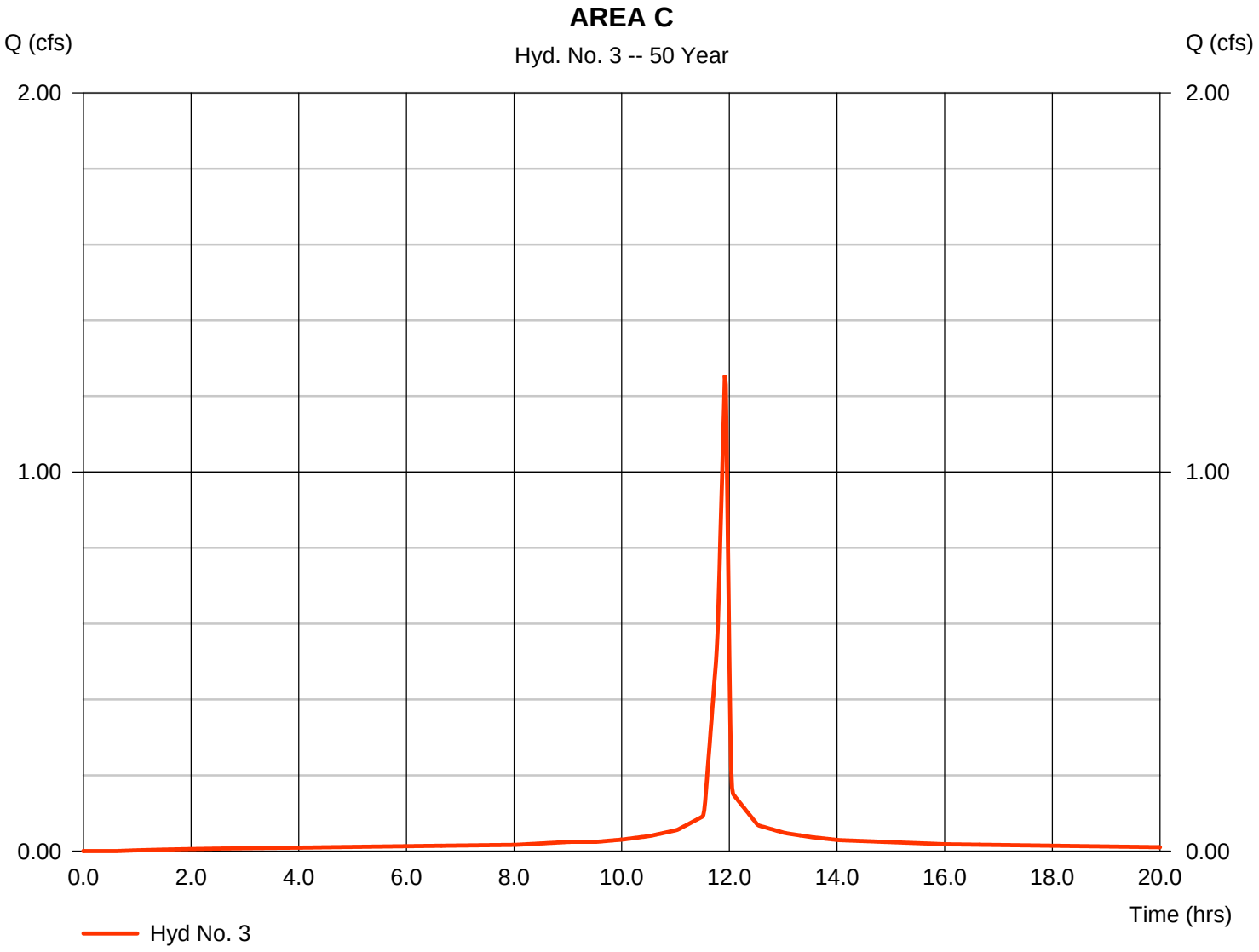


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.256 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.062 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

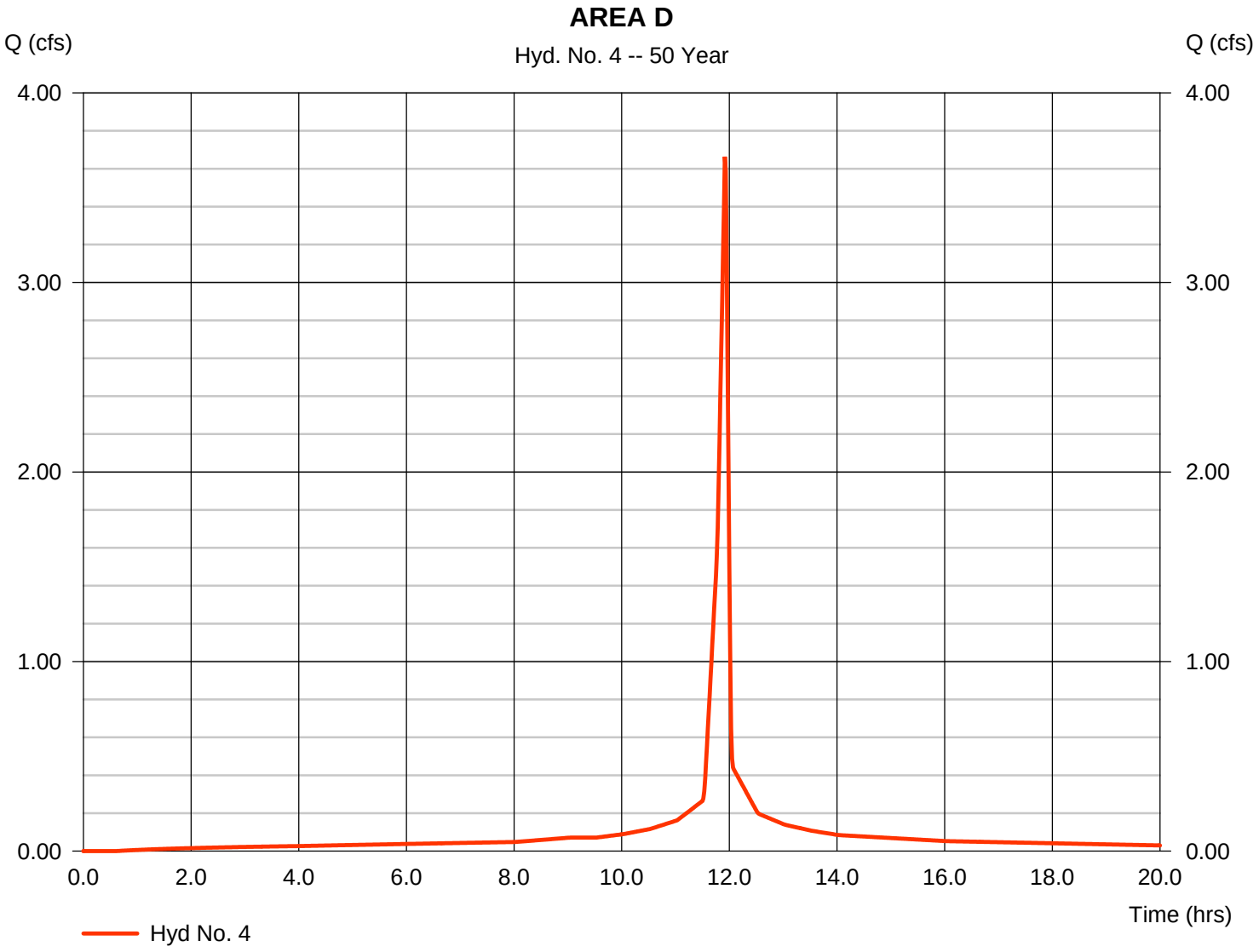


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	=	SCS Runoff	Peak discharge	=	3.664 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.182 acft
Drainage area	=	0.350 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	1.70 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

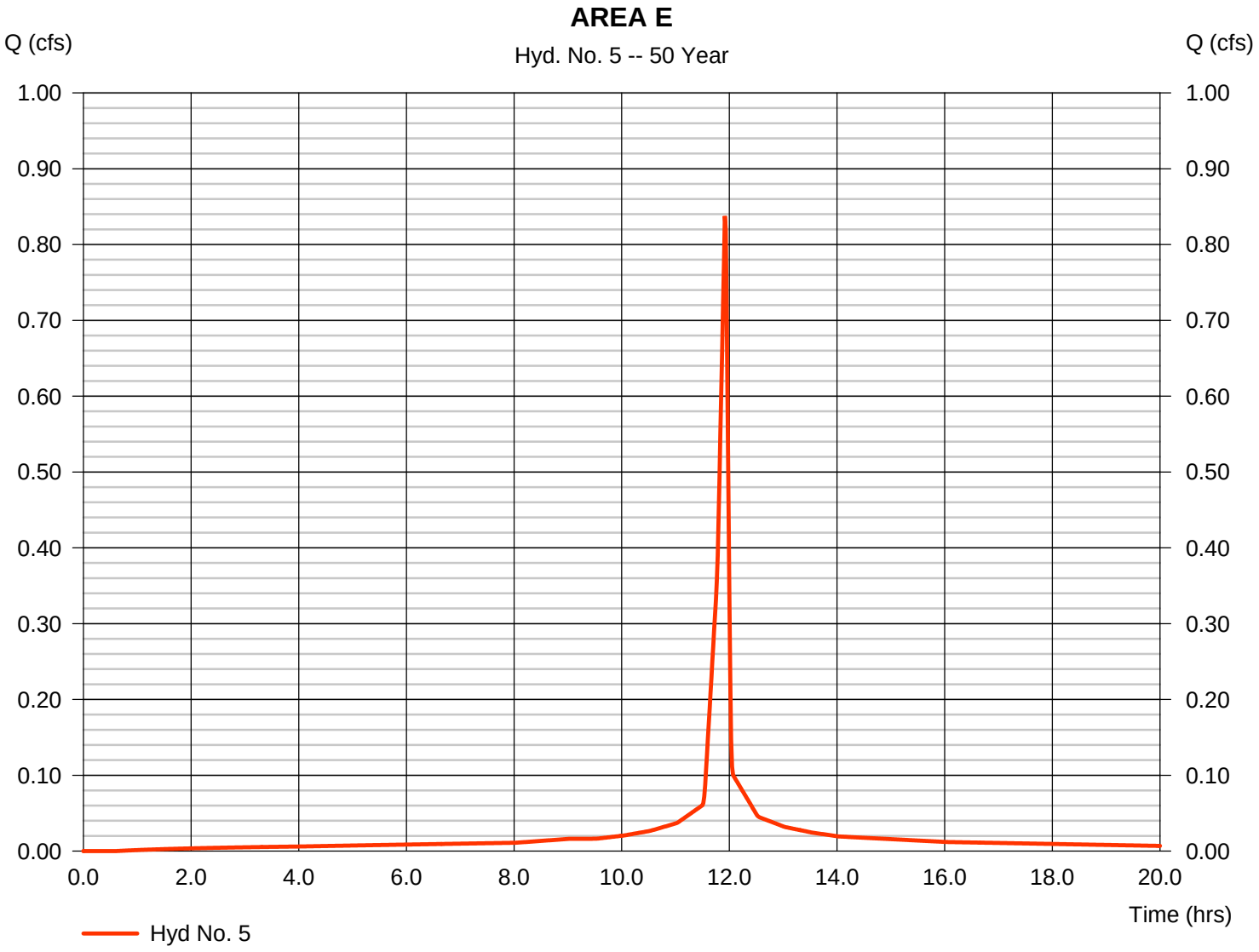


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	= SCS Runoff	Peak discharge	= 0.837 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.042 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

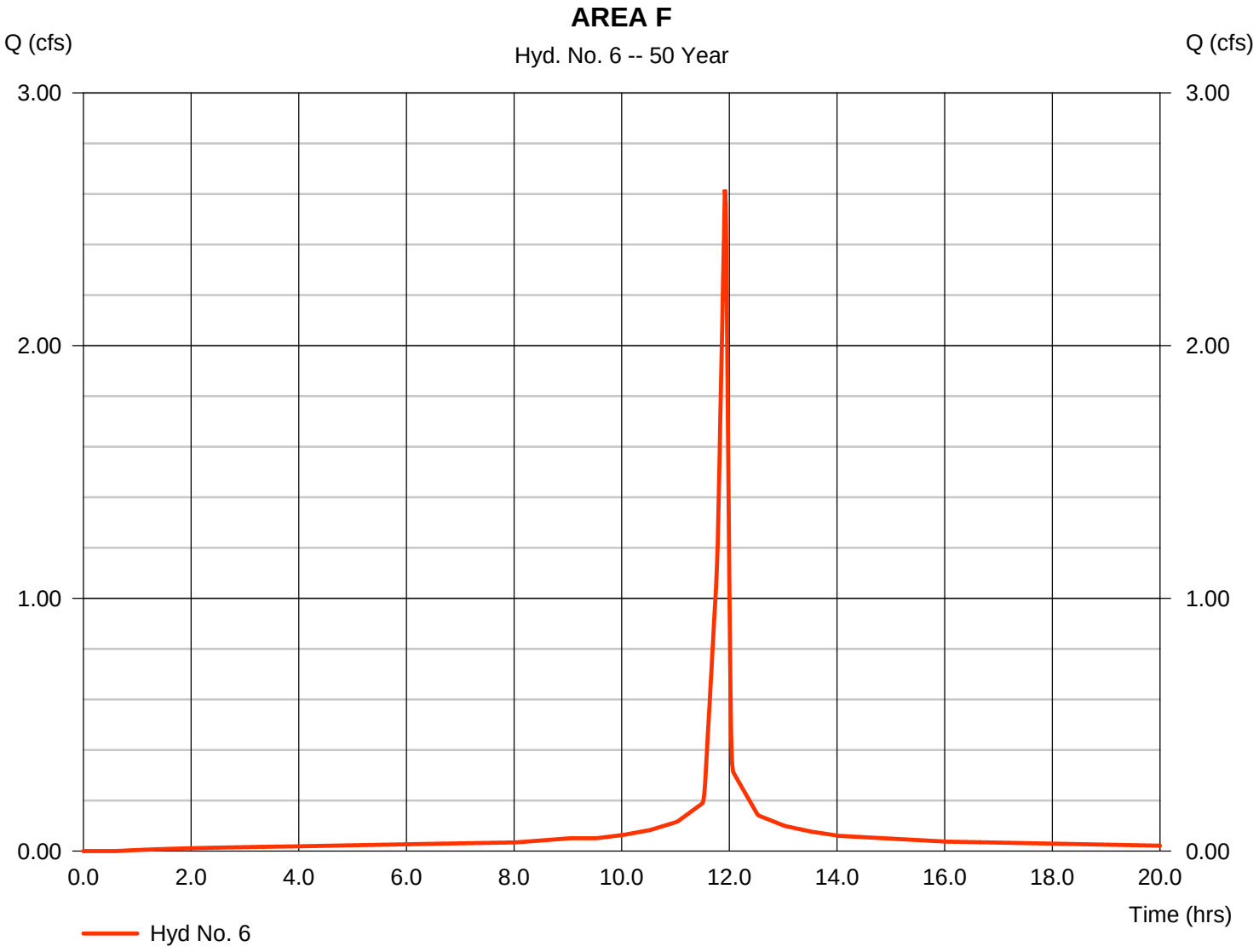


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.617 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.130 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

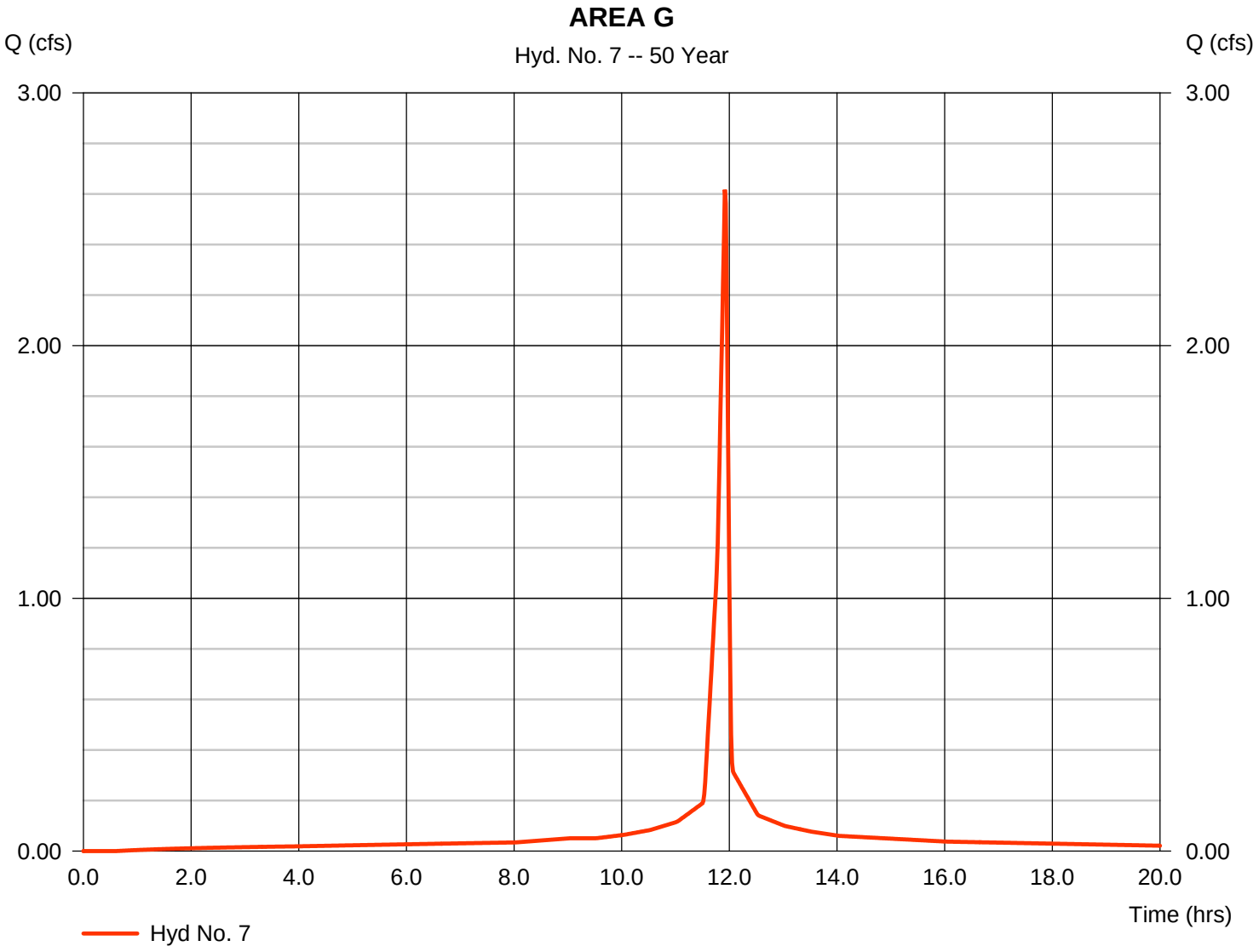


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	= SCS Runoff	Peak discharge	= 2.617 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.130 acft
Drainage area	= 0.250 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

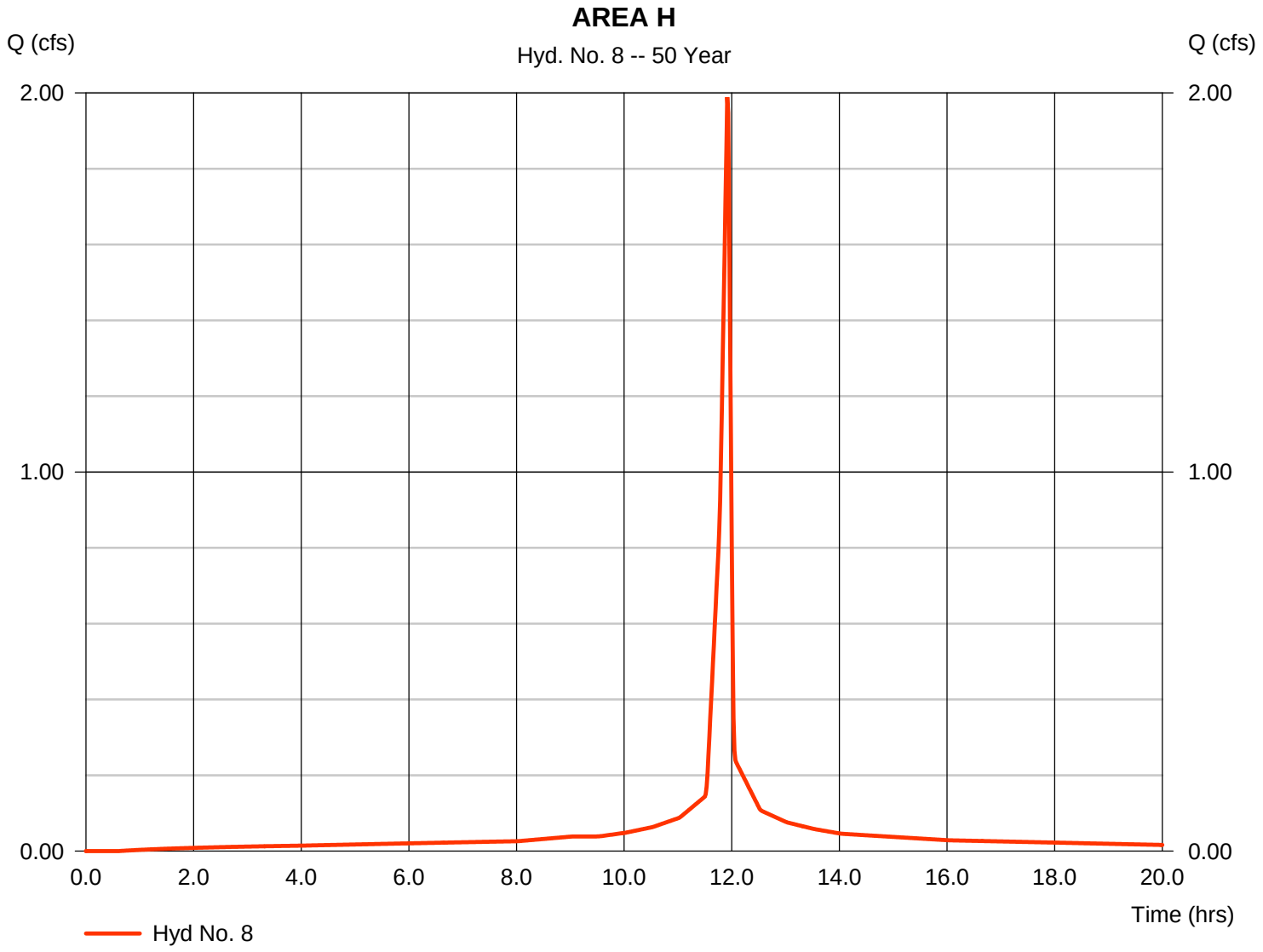


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.989 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.099 acft
Drainage area	=	0.190 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

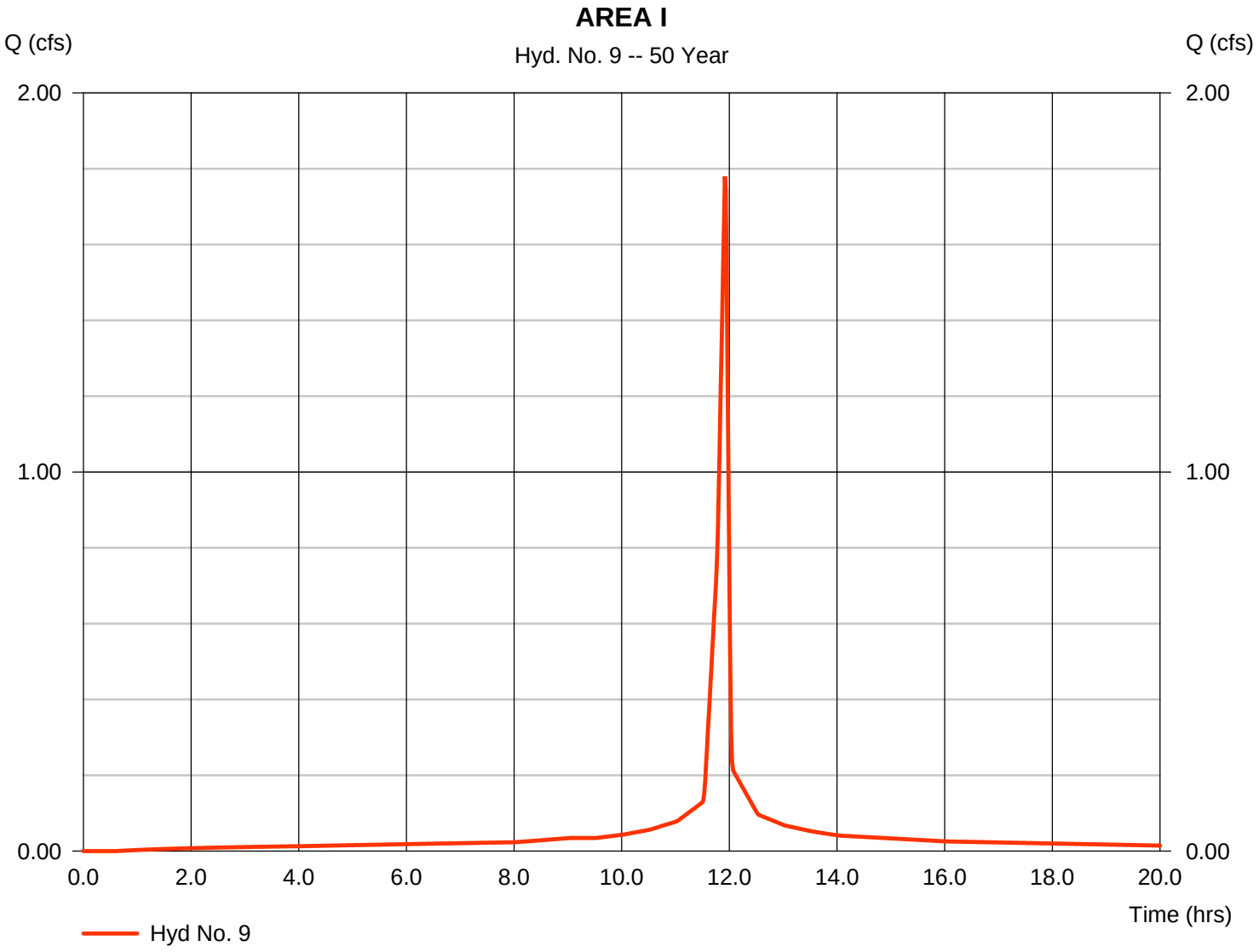


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	= SCS Runoff	Peak discharge	= 1.780 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.088 acft
Drainage area	= 0.170 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

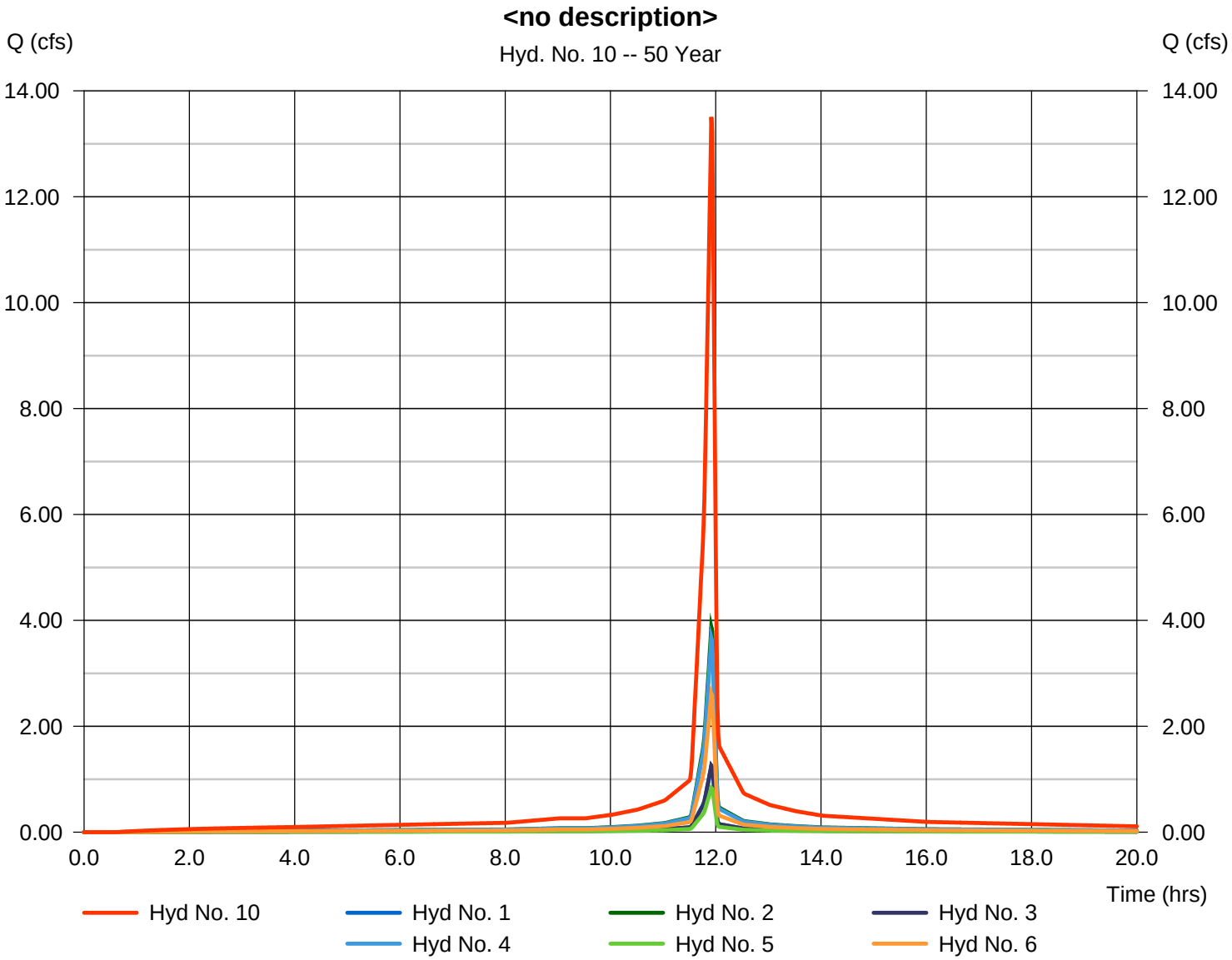


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	= Combine	Peak discharge	= 13.50 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.671 acft
Inflow hyds.	= 1, 2, 3, 4, 5, 6	Contrib. drain. area	= 1.290 ac

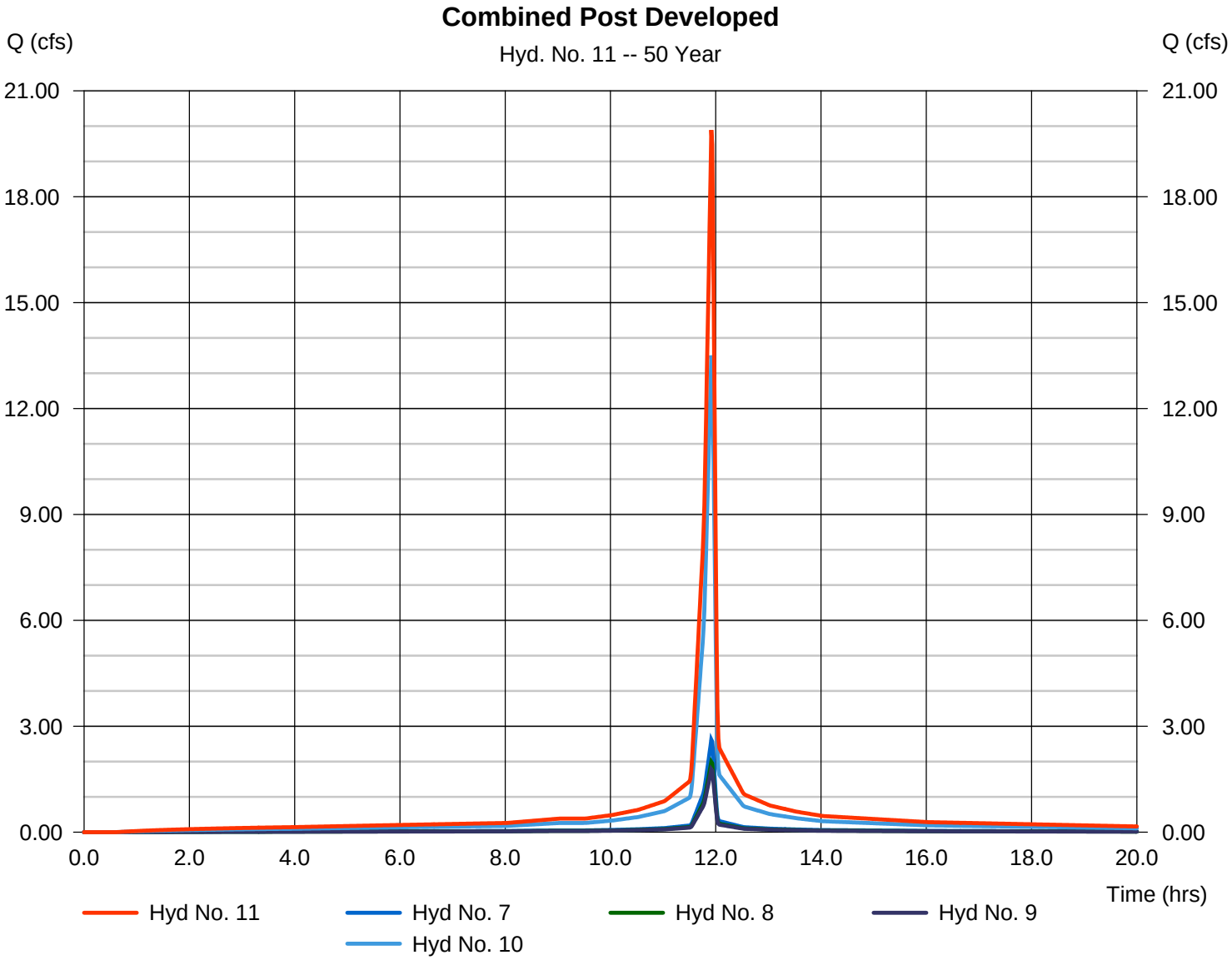


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	=	Combine	Peak discharge	=	19.89 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.989 acft
Inflow hyds.	=	7, 8, 9, 10	Contrib. drain. area	=	0.610 ac

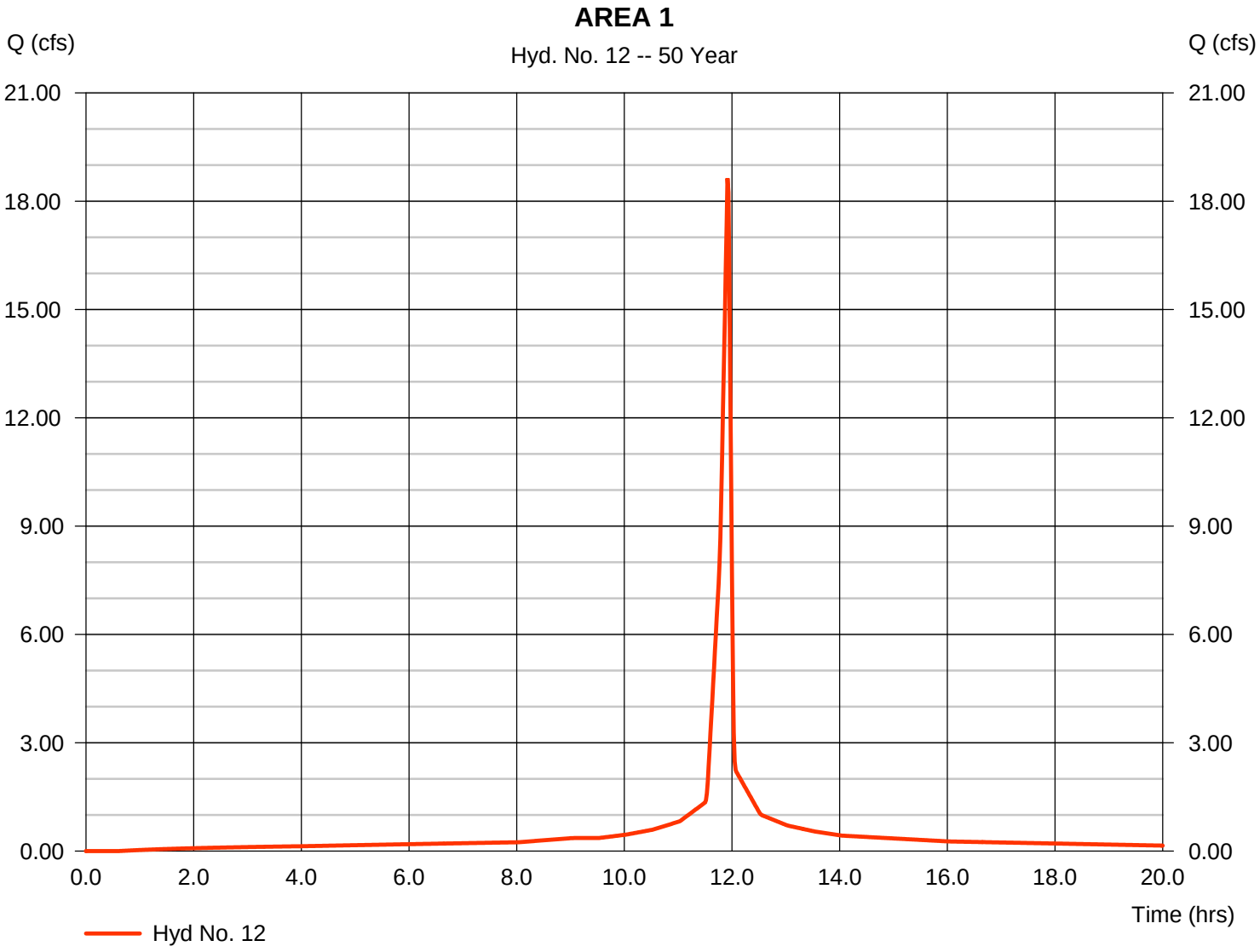


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	=	SCS Runoff	Peak discharge	=	18.63 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.926 acft
Drainage area	=	1.780 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	3.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

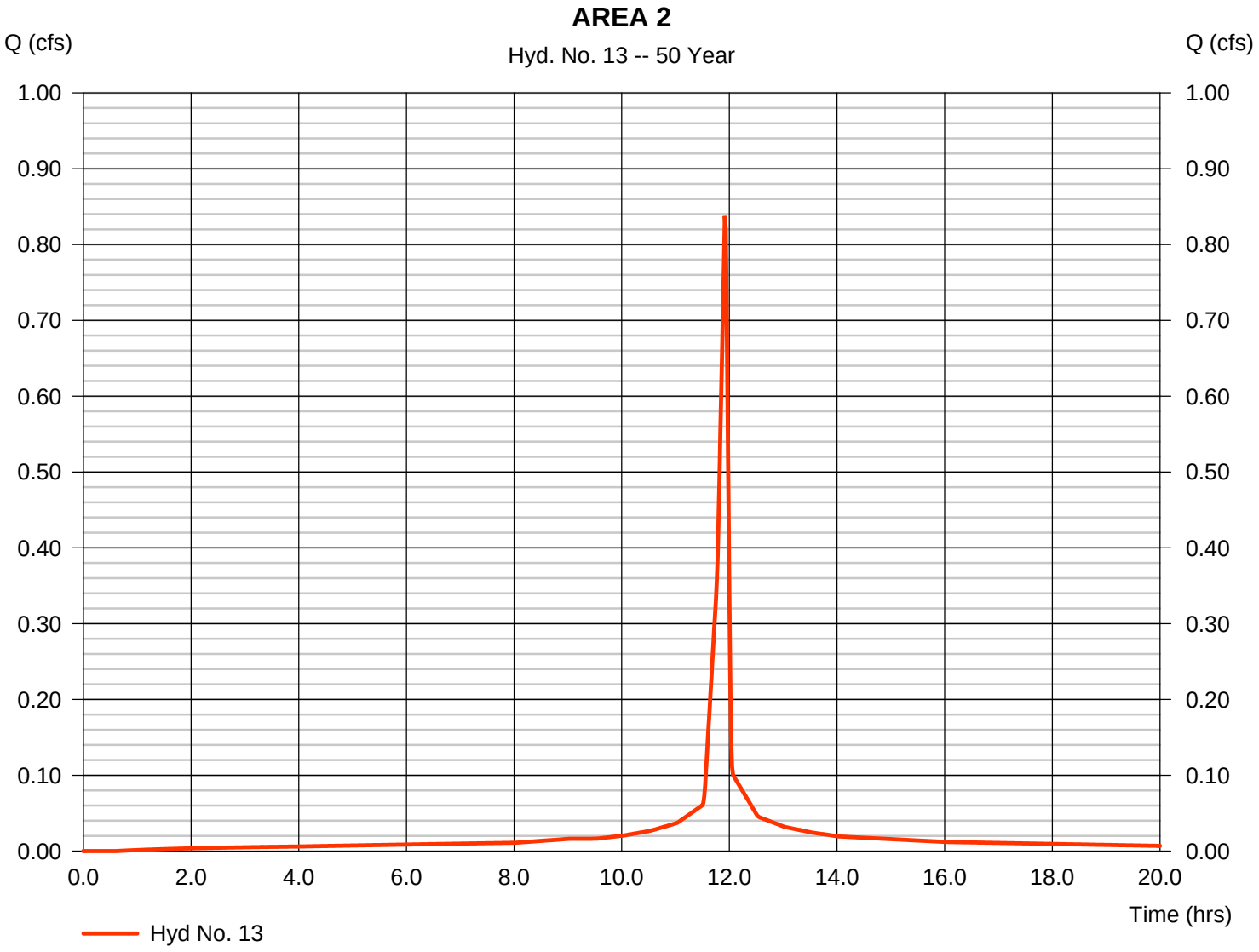


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.837 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.042 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

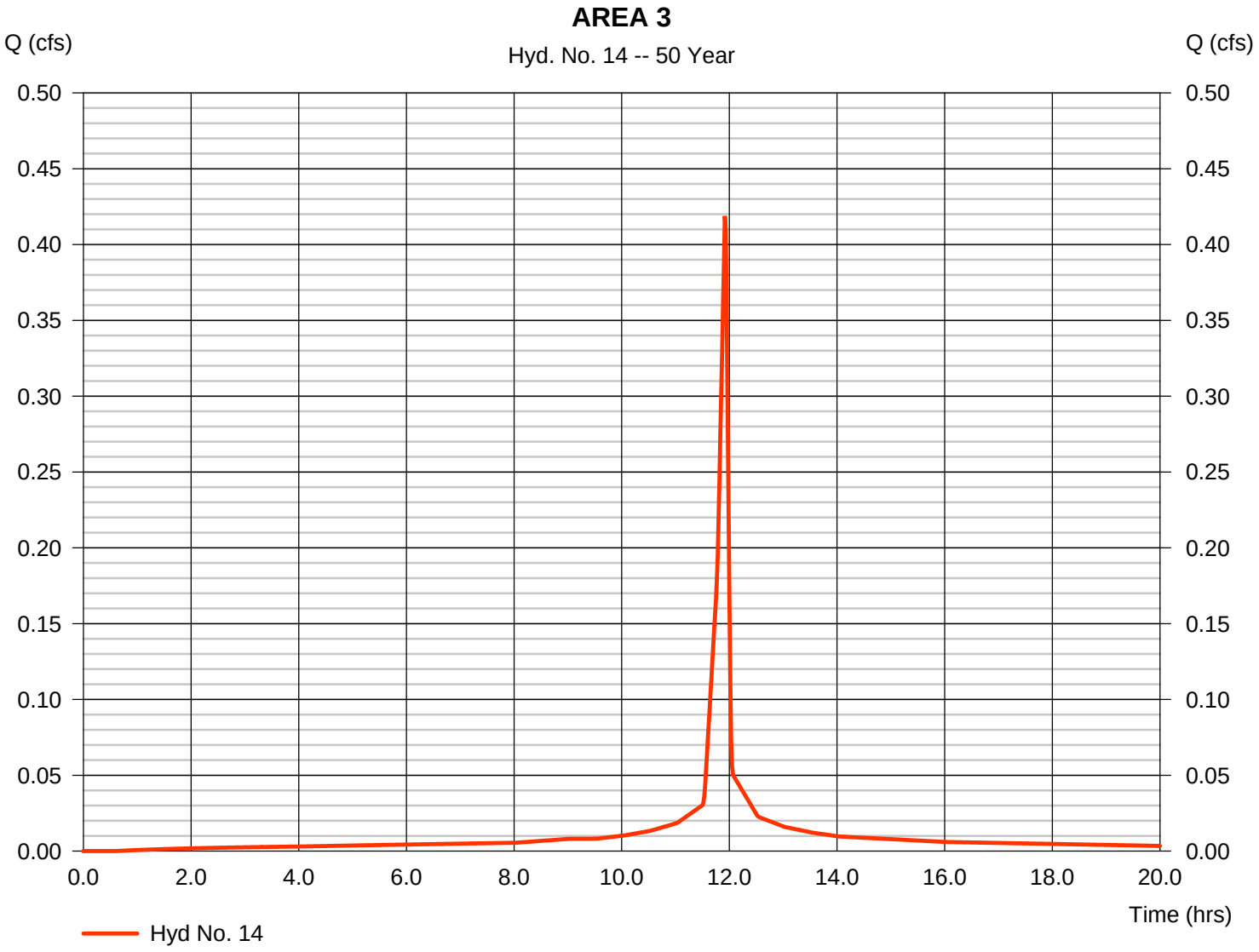


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.419 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.021 acft
Drainage area	= 0.040 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

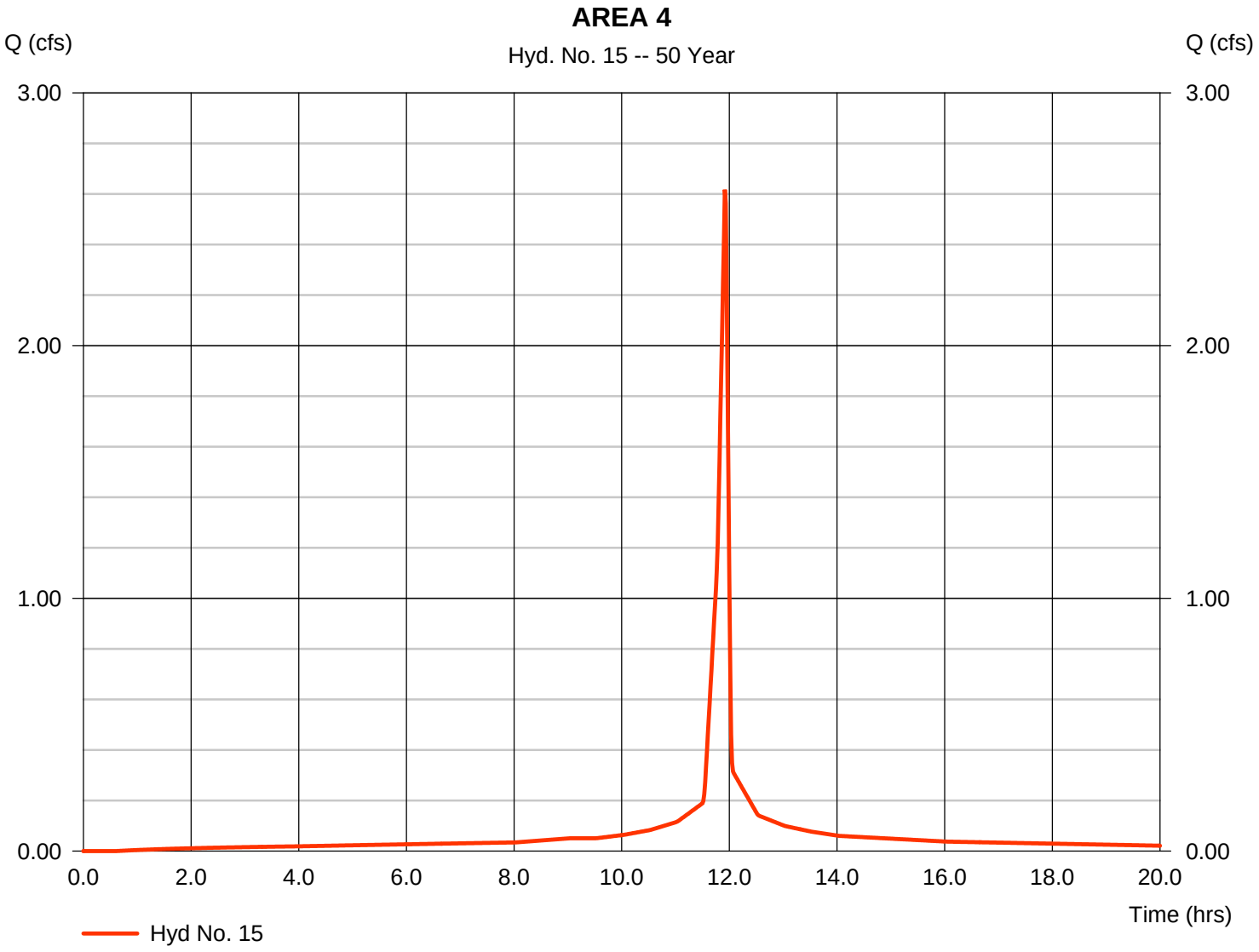


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.617 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.130 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

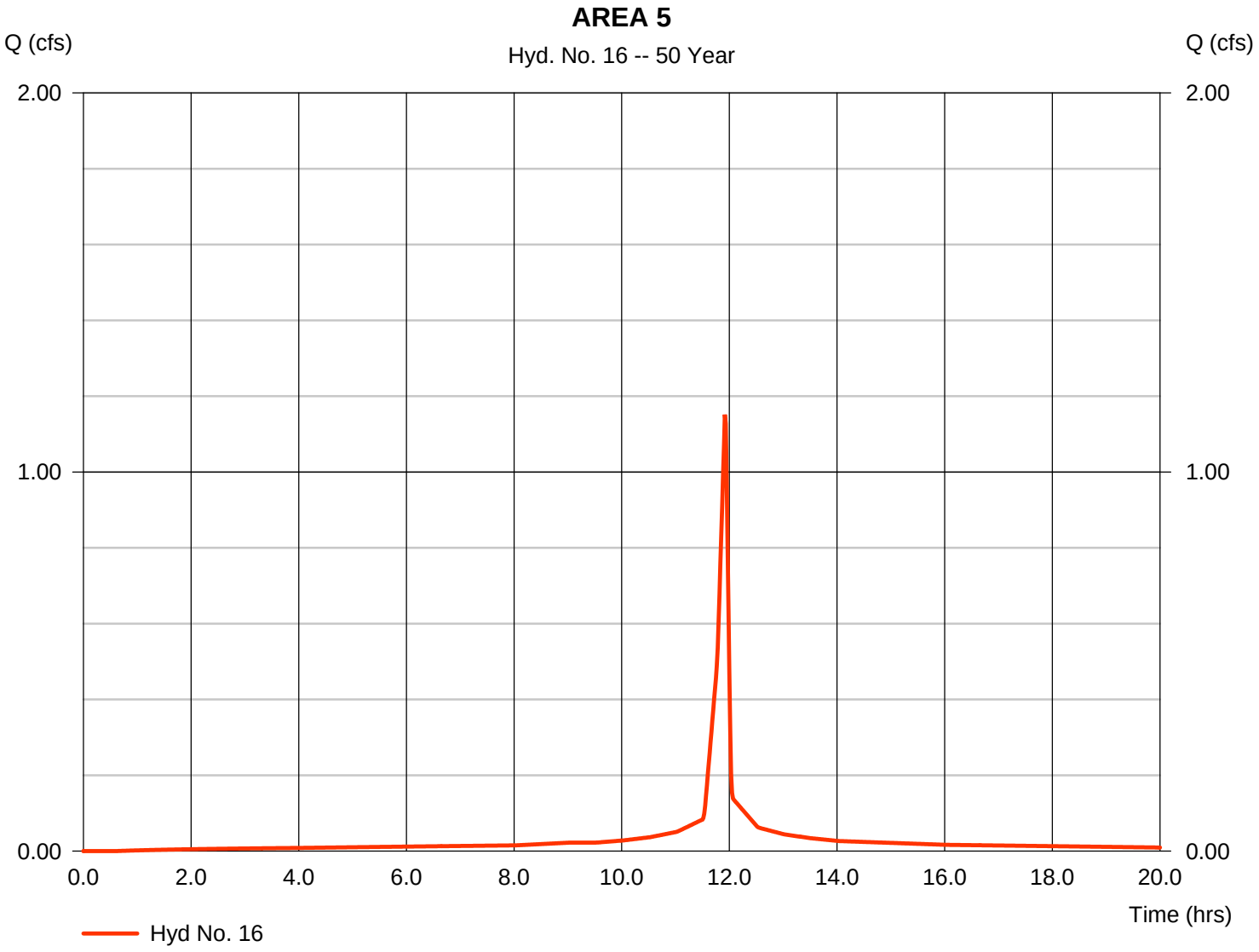


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.152 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.057 acft
Drainage area	=	0.110 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	6.90 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

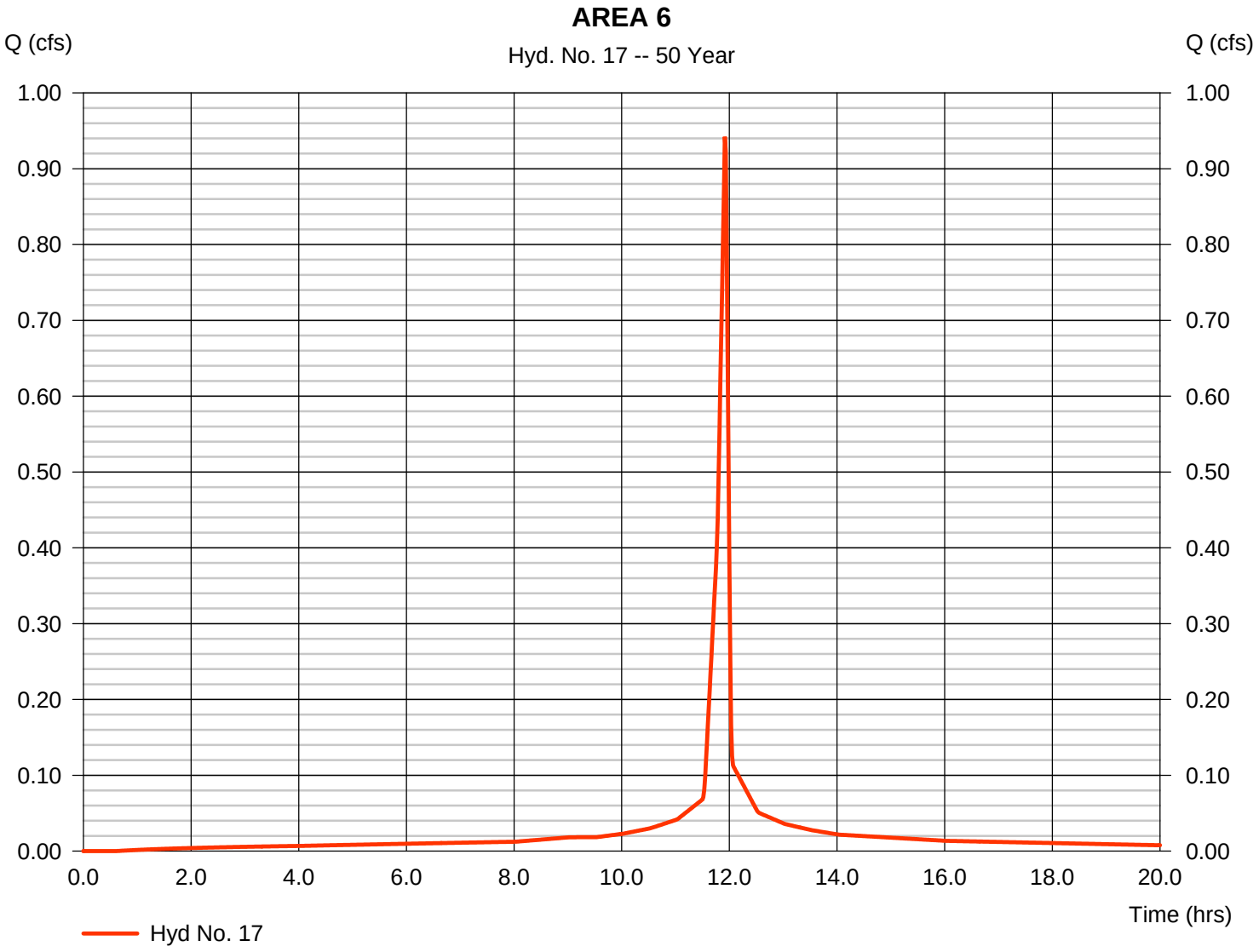


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	= SCS Runoff	Peak discharge	= 0.942 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.047 acft
Drainage area	= 0.090 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

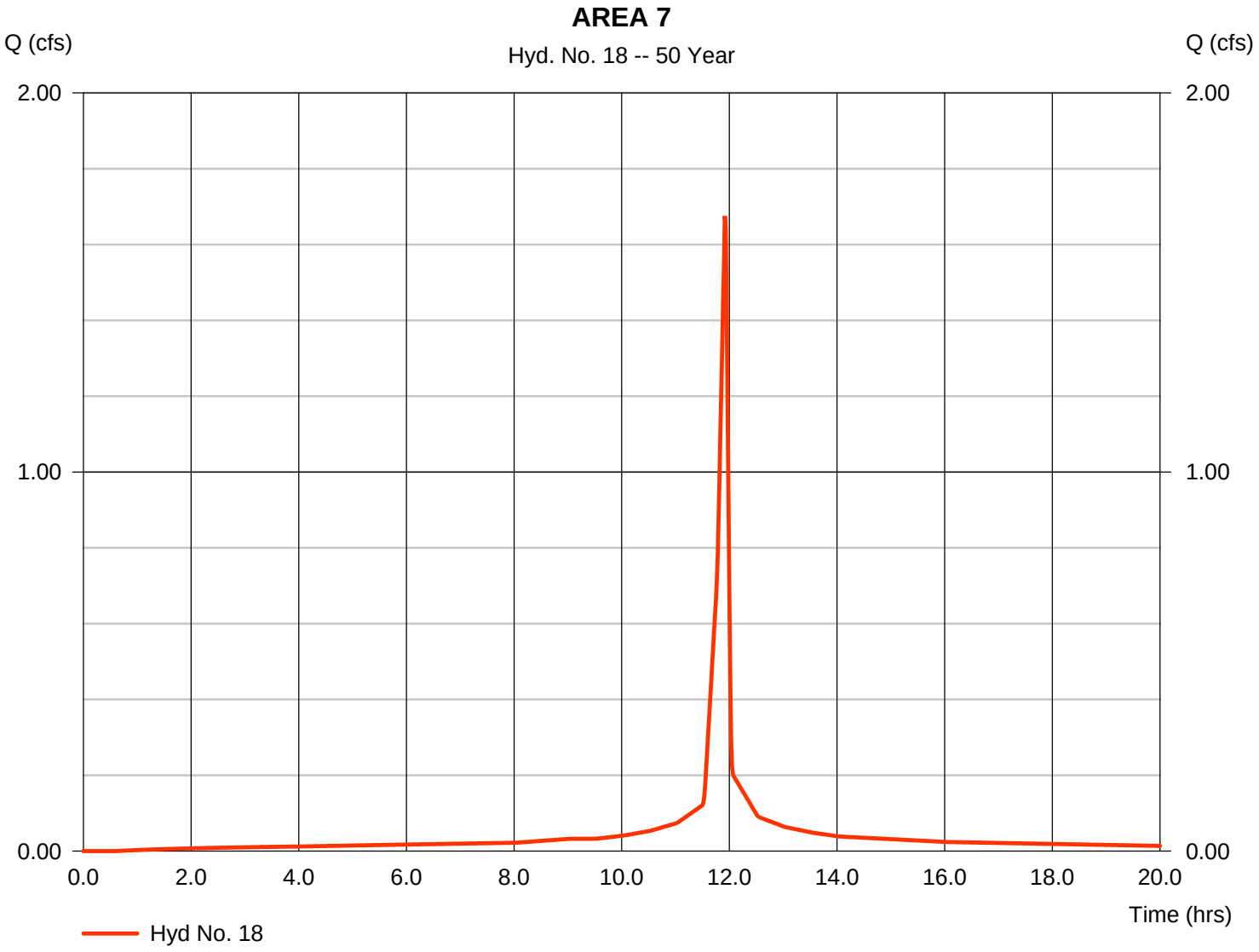


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	= SCS Runoff	Peak discharge	= 1.675 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.083 acft
Drainage area	= 0.160 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

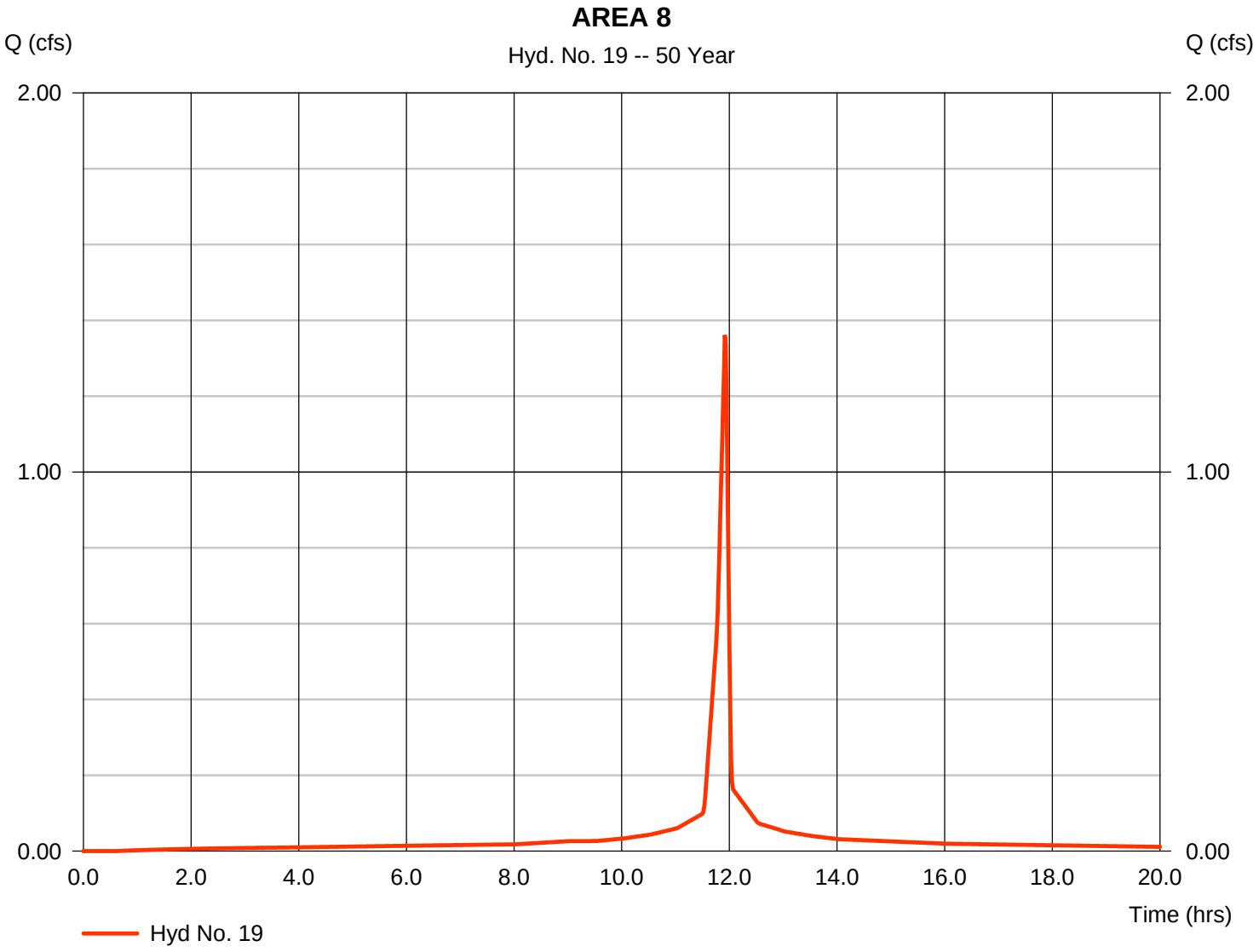


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	= SCS Runoff	Peak discharge	= 1.361 cfs
Storm frequency	= 50 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.068 acft
Drainage area	= 0.130 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 6.90 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

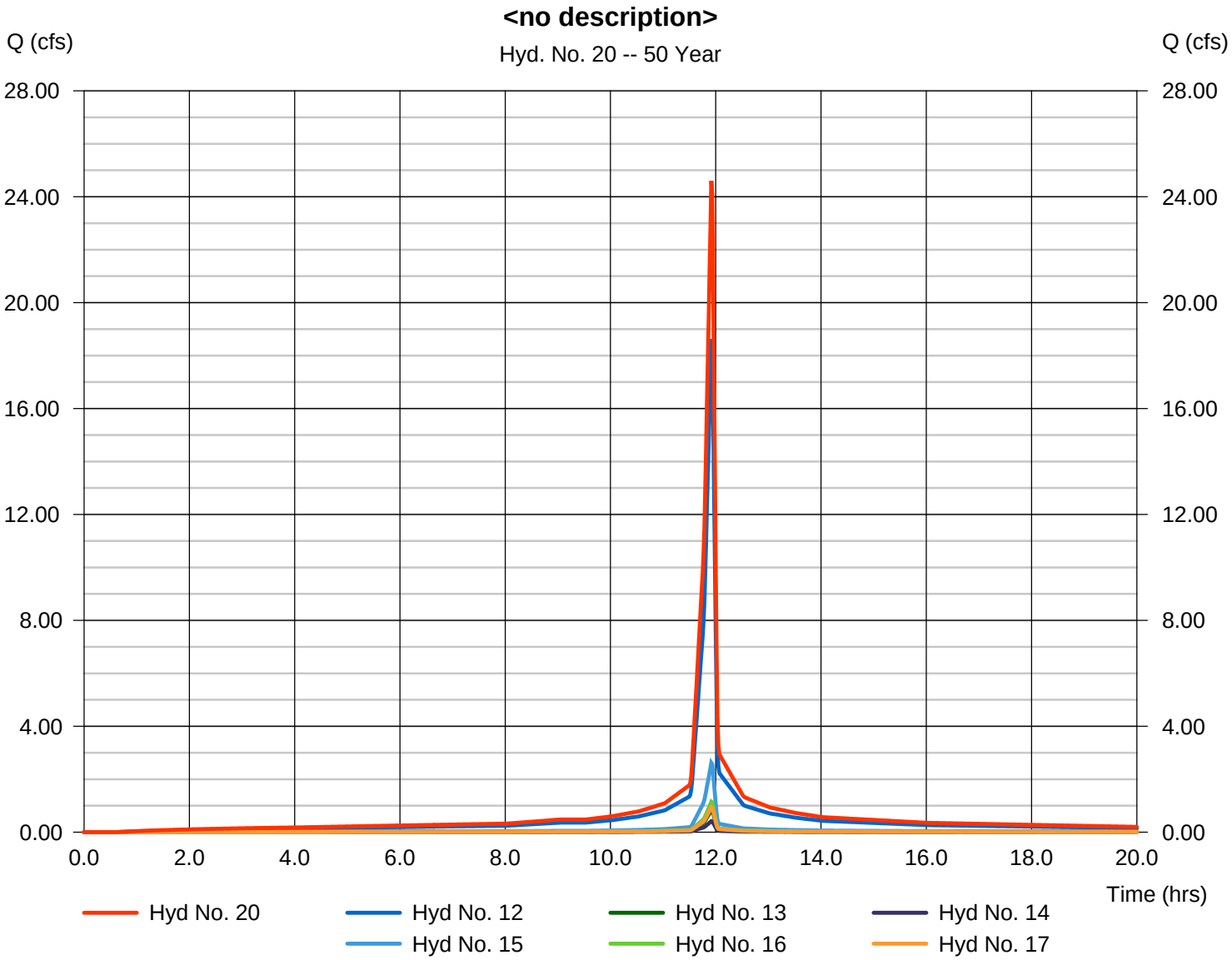


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	=	Combine	Peak discharge	=	24.60 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.223 acft
Inflow hyds.	=	12, 13, 14, 15, 16, 17	Contrib. drain. area	=	2.350 ac

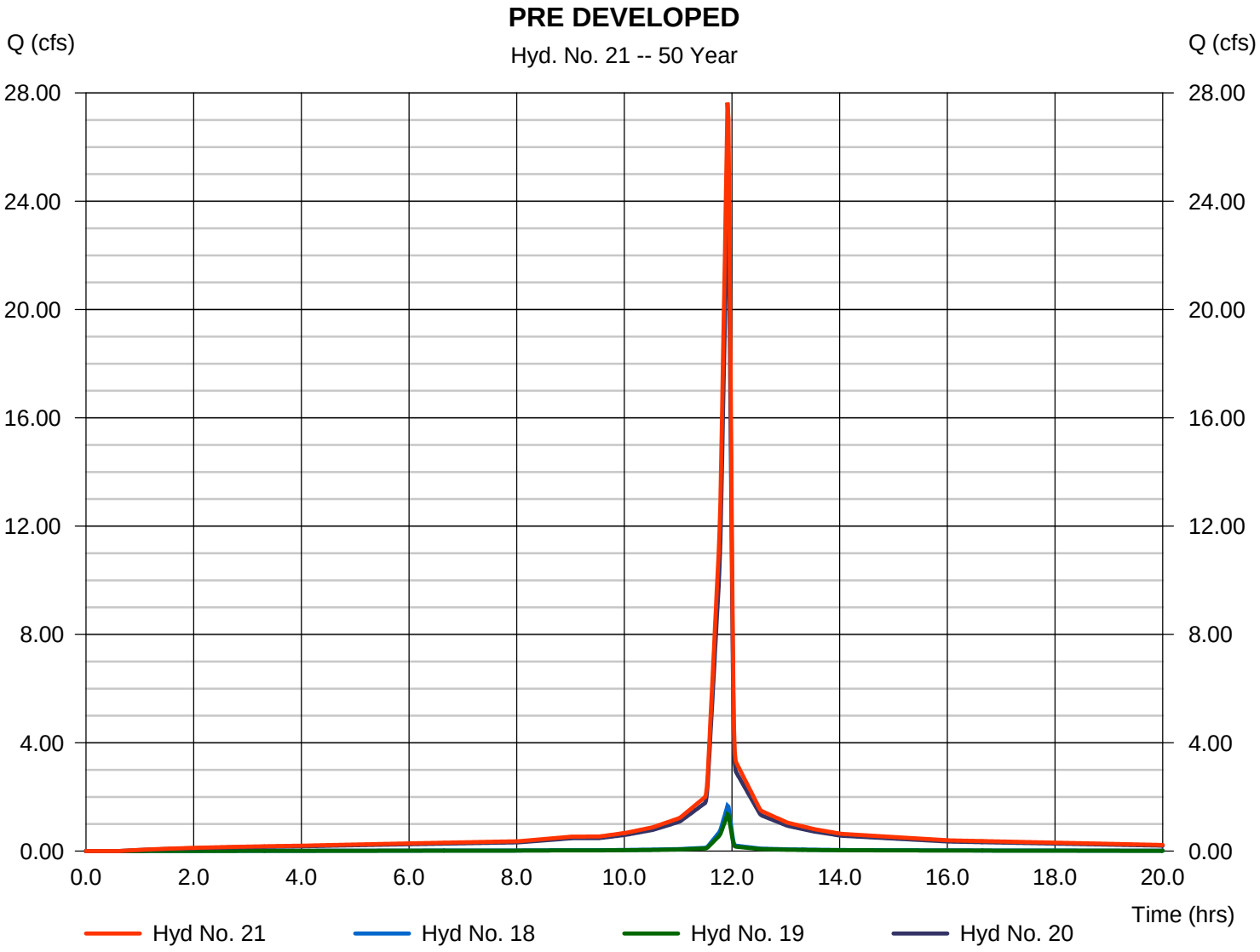


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	27.64 cfs
Storm frequency	=	50 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.374 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2012 by Autodesk, Inc. v9

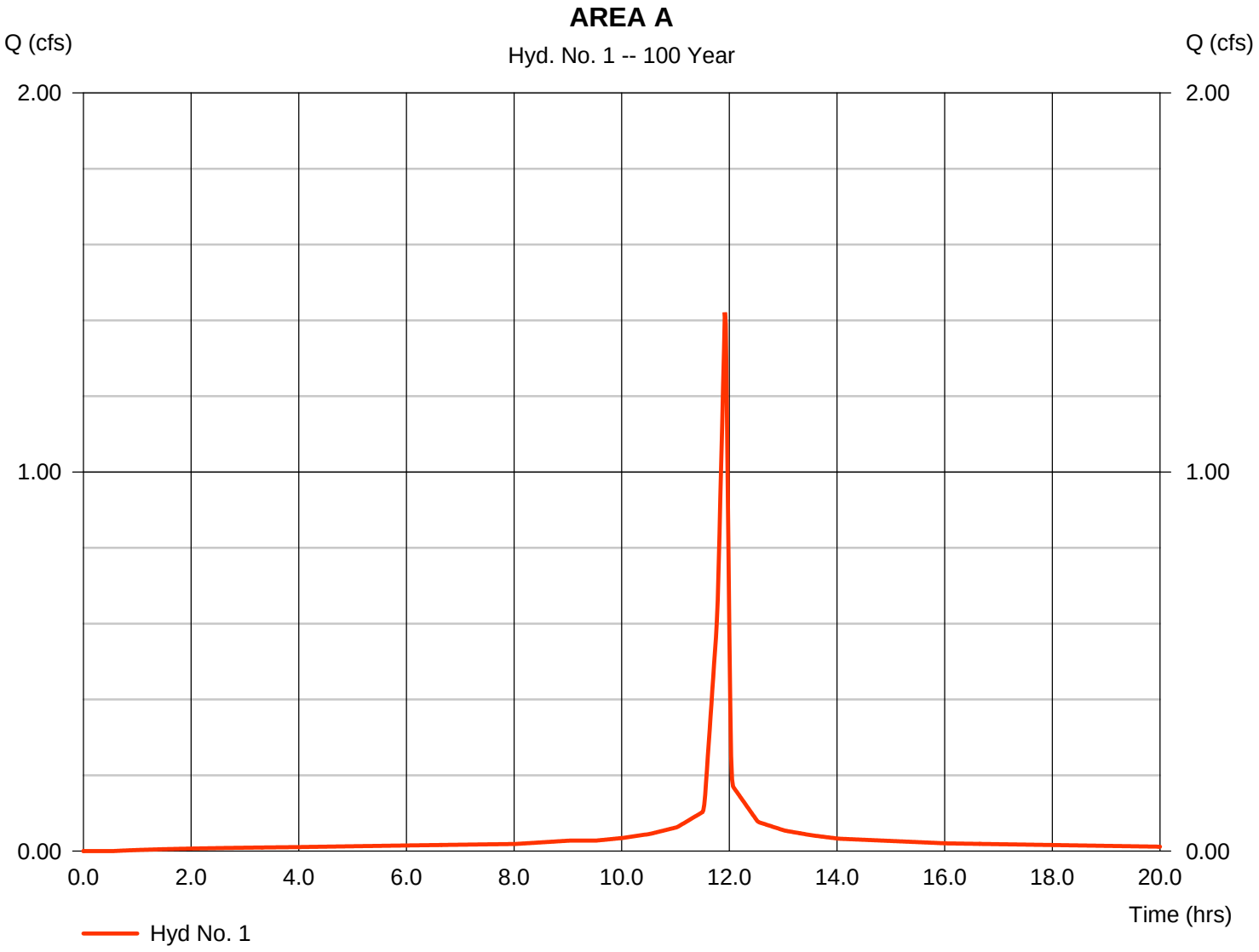
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (acft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (acft)	Hydrograph Description
1	SCS Runoff	1.421	1	715	0.071	------	------	------	AREA A
2	SCS Runoff	4.381	1	715	0.219	------	------	------	AREA B
3	SCS Runoff	1.421	1	715	0.071	------	------	------	AREA C
4	SCS Runoff	4.144	1	715	0.207	------	------	------	AREA D
5	SCS Runoff	0.947	1	715	0.047	------	------	------	AREA E
6	SCS Runoff	2.960	1	715	0.148	------	------	------	AREA F
7	SCS Runoff	2.960	1	715	0.148	------	------	------	AREA G
8	SCS Runoff	2.250	1	715	0.112	------	------	------	AREA H
9	SCS Runoff	2.013	1	715	0.100	------	------	------	AREA I
10	Combine	15.27	1	715	0.762	1, 2, 3, 4, 5, 6,	------	------	<no description>
11	Combine	22.50	1	715	1.122	7, 8, 9, 10	------	------	Combined Post Developed
12	SCS Runoff	21.08	1	715	1.051	------	------	------	AREA 1
13	SCS Runoff	0.947	1	715	0.047	------	------	------	AREA 2
14	SCS Runoff	0.474	1	715	0.024	------	------	------	AREA 3
15	SCS Runoff	2.960	1	715	0.148	------	------	------	AREA 4
16	SCS Runoff	1.302	1	715	0.065	------	------	------	AREA 5
17	SCS Runoff	1.066	1	715	0.053	------	------	------	AREA 6
18	SCS Runoff	1.895	1	715	0.095	------	------	------	AREA 7
19	SCS Runoff	1.539	1	715	0.077	------	------	------	AREA 8
20	Combine	27.83	1	715	1.388	12, 13, 14, 15, 16, 17,	------	------	<no description>
21	Combine	31.26	1	715	1.559	18, 19, 20	------	------	PRE DEVELOPED

Hydrograph Report

Hyd. No. 1

AREA A

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.421 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.071 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

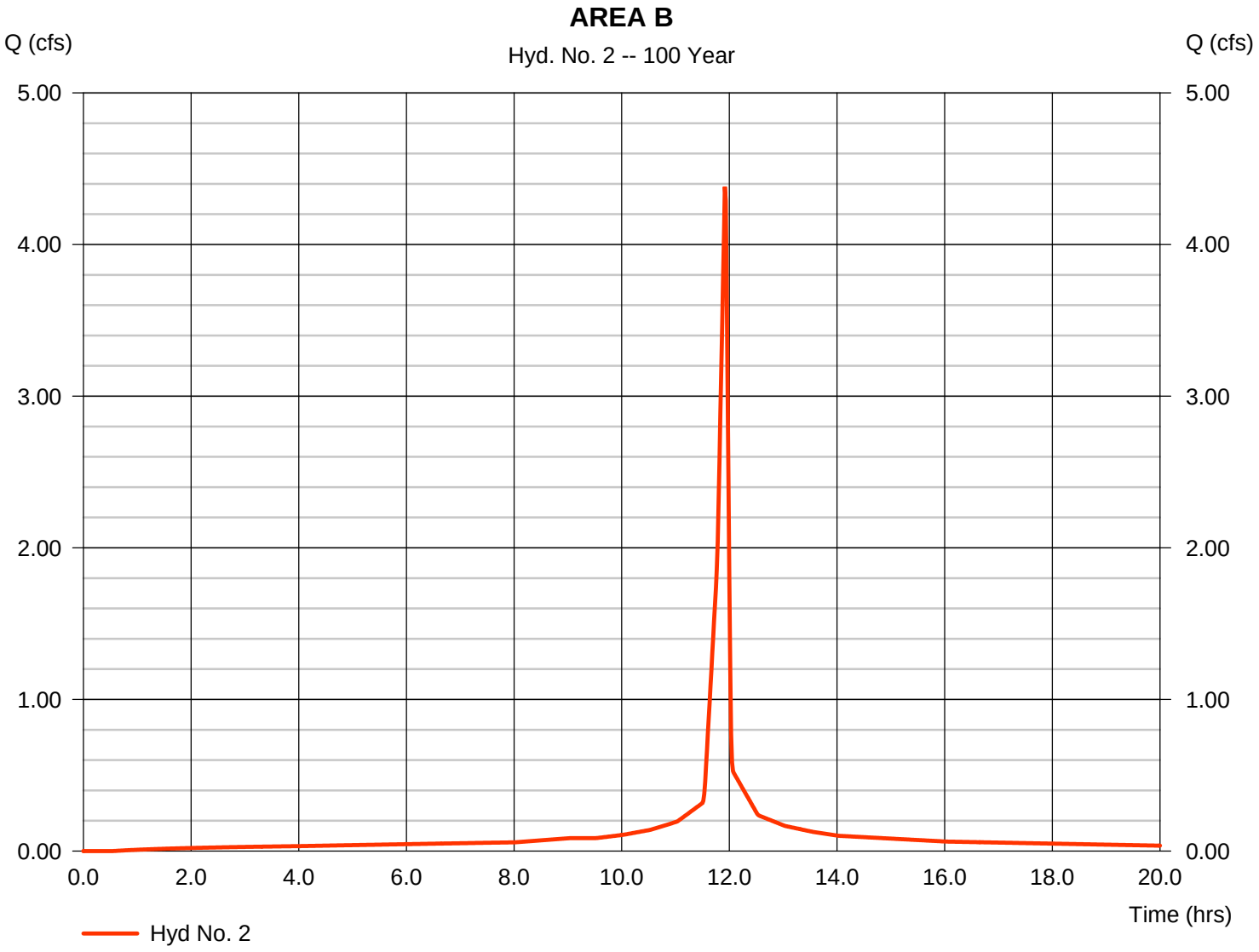


Hydrograph Report

Hyd. No. 2

AREA B

Hydrograph type	=	SCS Runoff	Peak discharge	=	4.381 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.219 acft
Drainage area	=	0.370 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

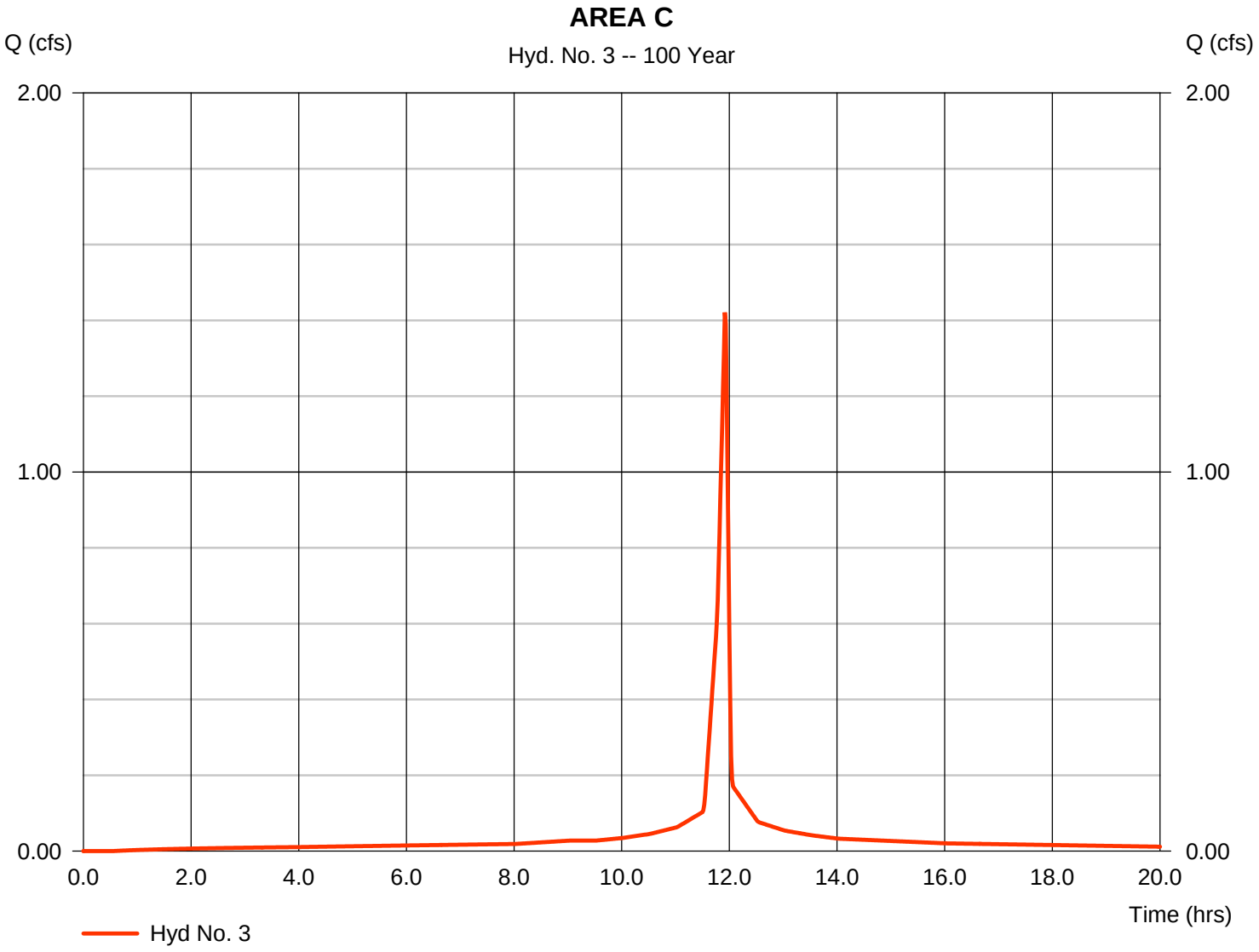


Hydrograph Report

Hyd. No. 3

AREA C

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.421 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.071 acft
Drainage area	=	0.120 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

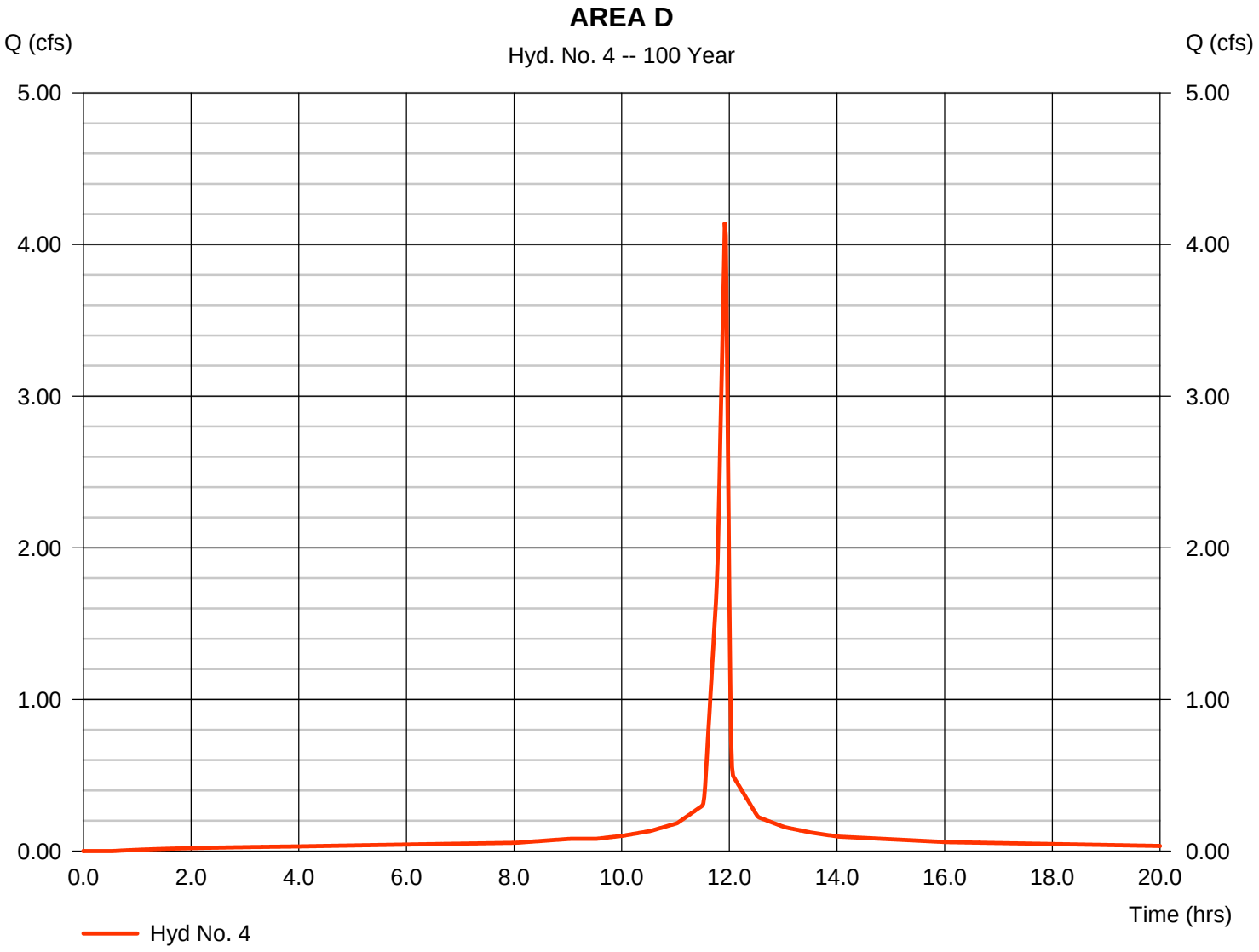


Hydrograph Report

Hyd. No. 4

AREA D

Hydrograph type	=	SCS Runoff	Peak discharge	=	4.144 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.207 acft
Drainage area	=	0.350 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	1.70 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

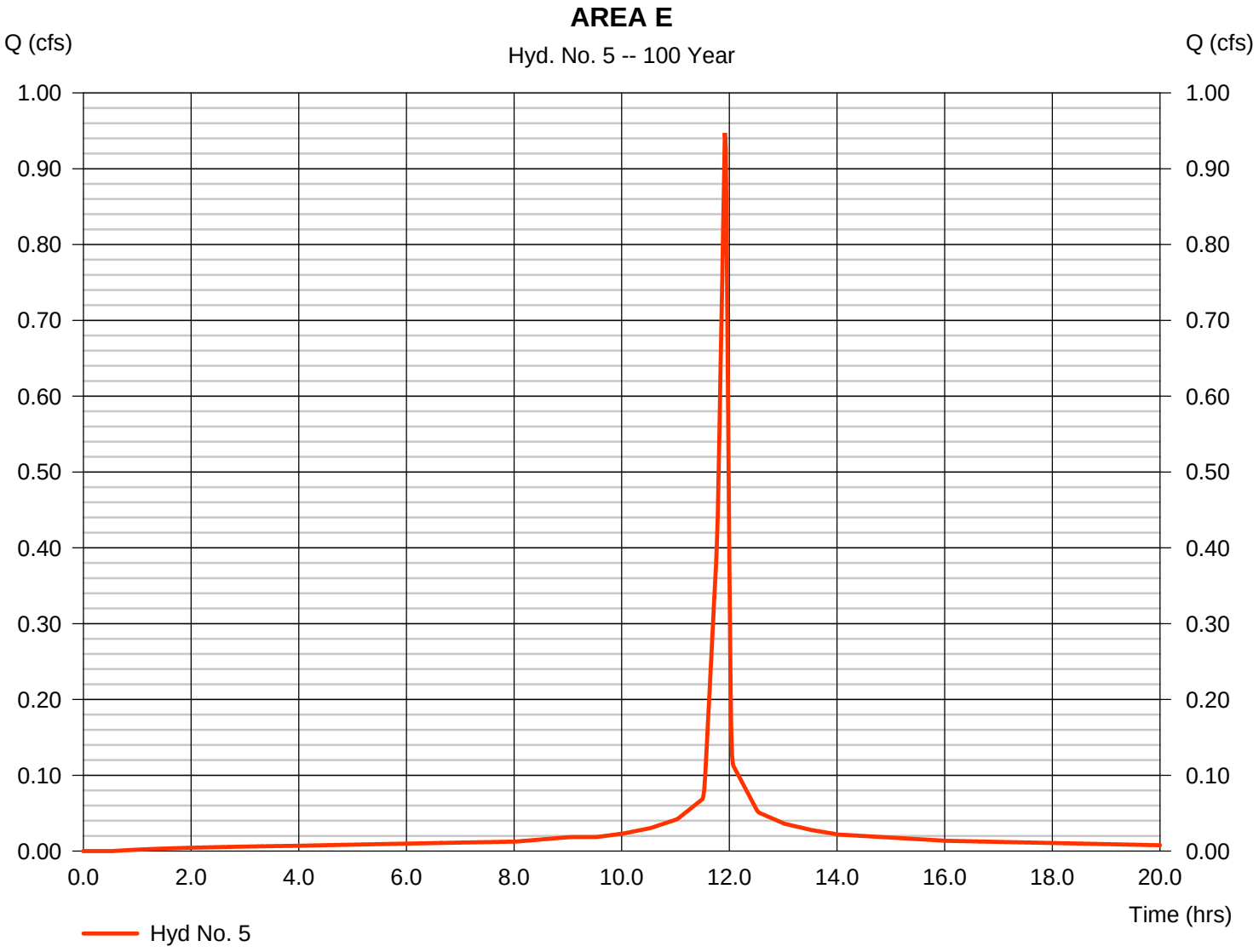


Hydrograph Report

Hyd. No. 5

AREA E

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.947 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.047 acft
Drainage area	=	0.080 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

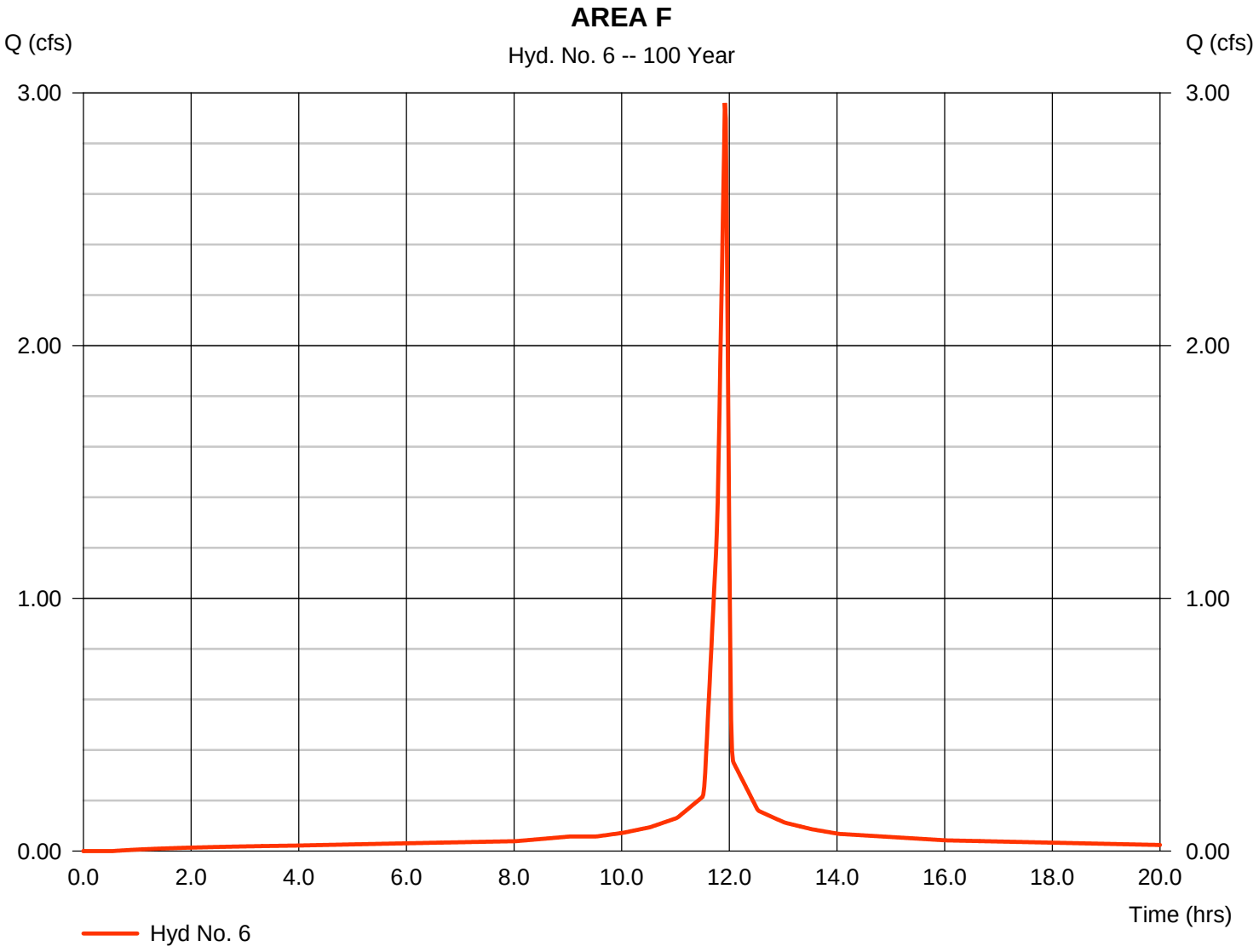


Hydrograph Report

Hyd. No. 6

AREA F

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.960 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.148 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

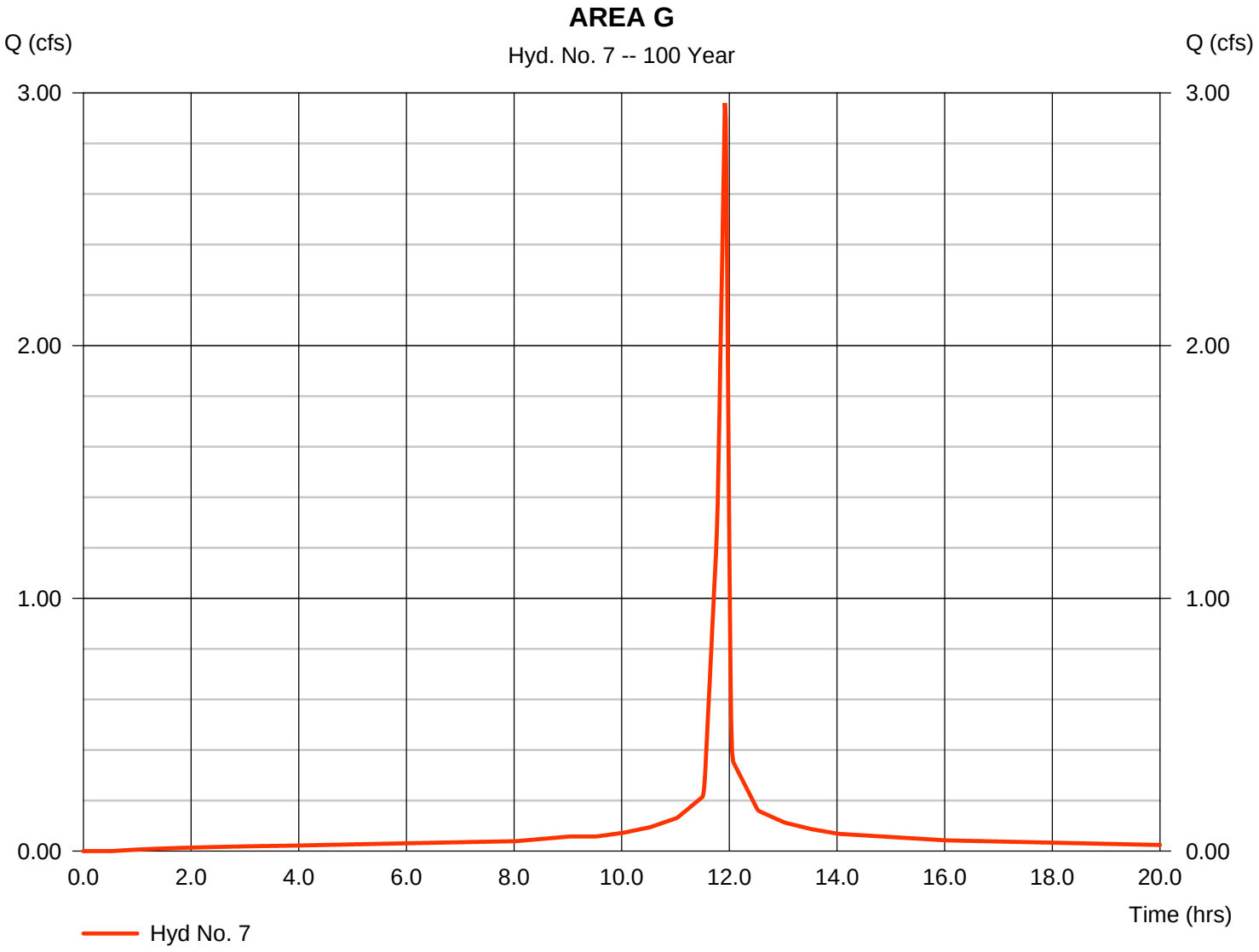


Hydrograph Report

Hyd. No. 7

AREA G

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.960 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.148 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

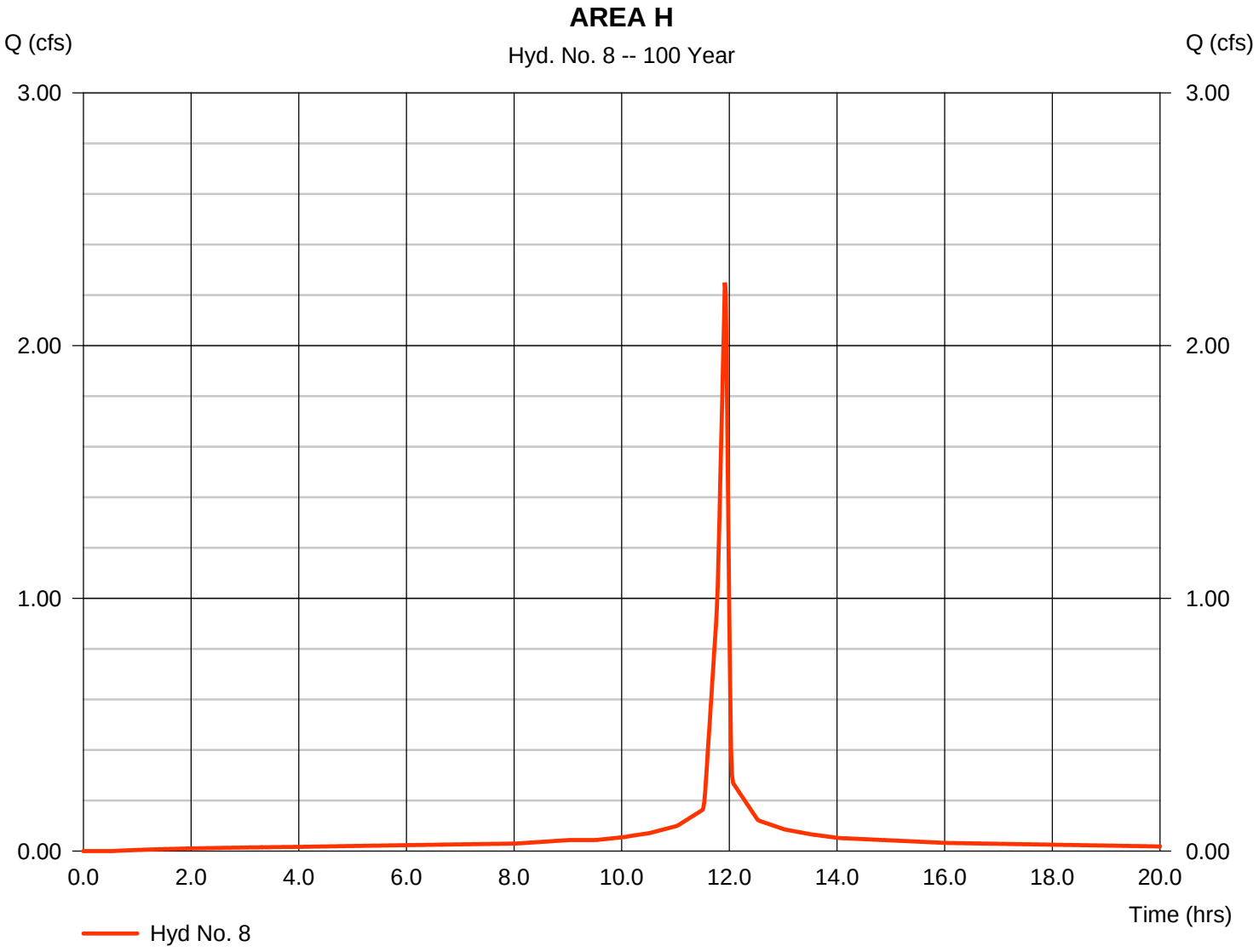


Hydrograph Report

Hyd. No. 8

AREA H

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.250 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.112 acft
Drainage area	=	0.190 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

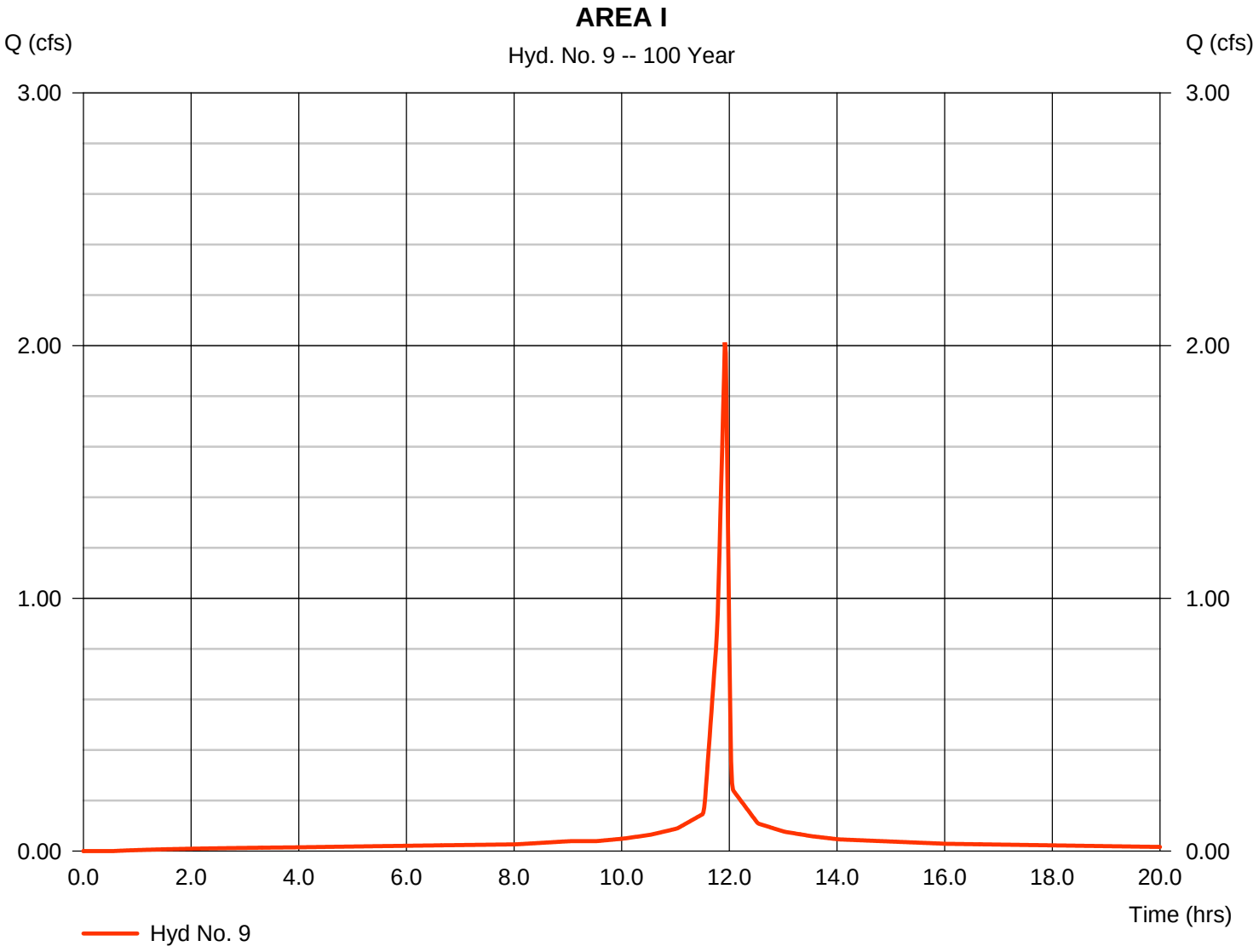


Hydrograph Report

Hyd. No. 9

AREA I

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.013 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.100 acft
Drainage area	=	0.170 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

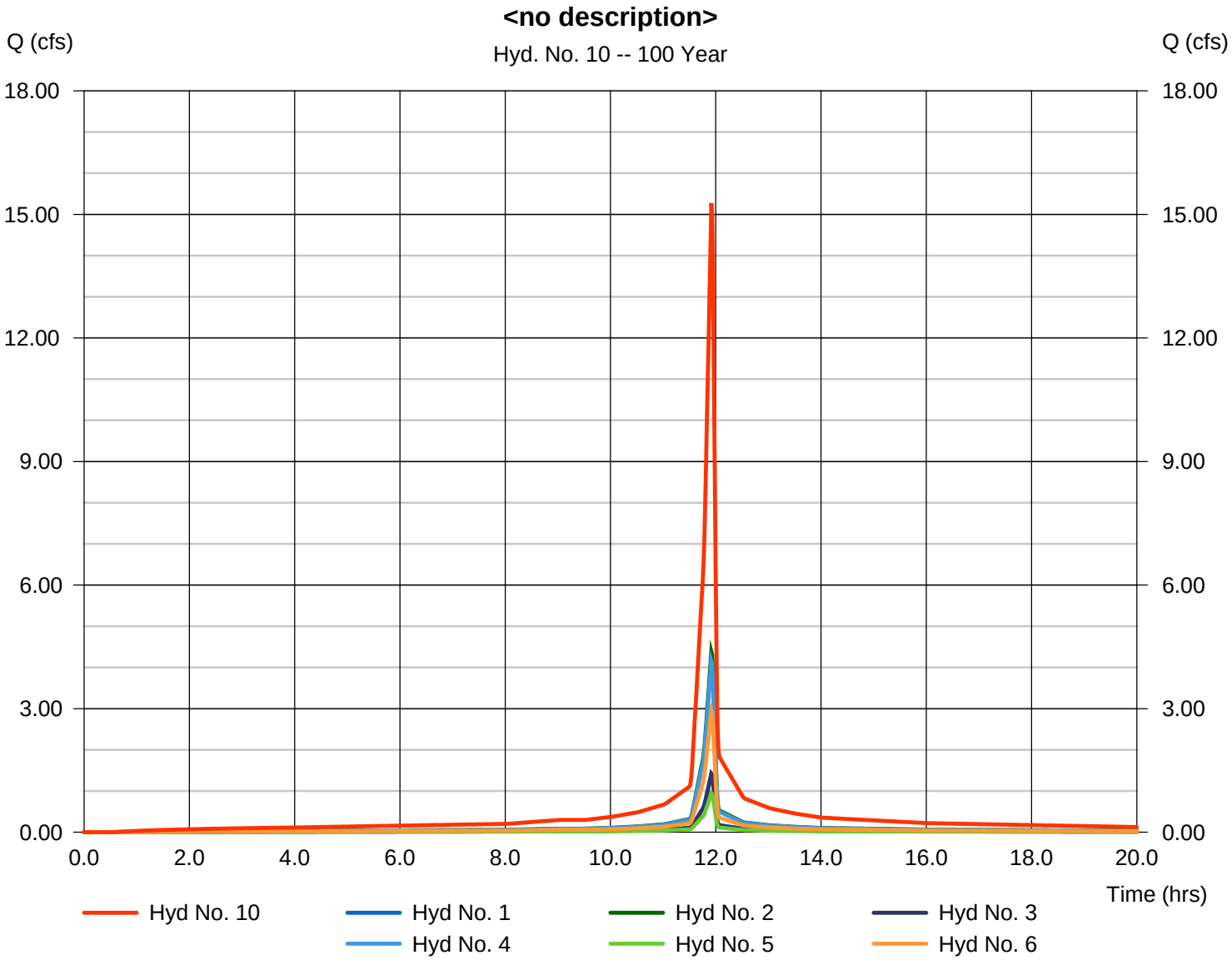


Hydrograph Report

Hyd. No. 10

<no description>

Hydrograph type	=	Combine	Peak discharge	=	15.27 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.762 acft
Inflow hyds.	=	1, 2, 3, 4, 5, 6	Contrib. drain. area	=	1.290 ac

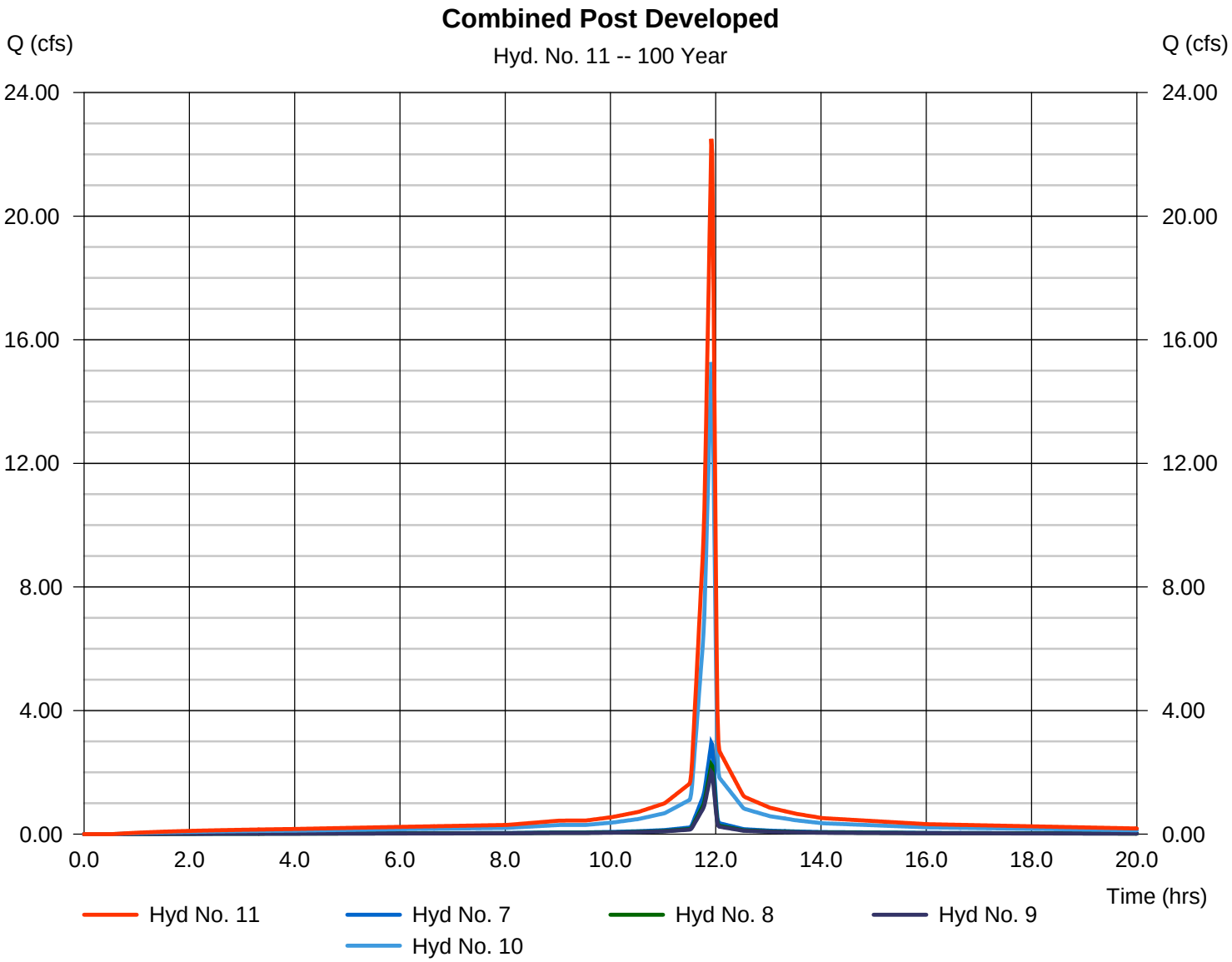


Hydrograph Report

Hyd. No. 11

Combined Post Developed

Hydrograph type	= Combine	Peak discharge	= 22.50 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 1.122 acft
Inflow hyds.	= 7, 8, 9, 10	Contrib. drain. area	= 0.610 ac

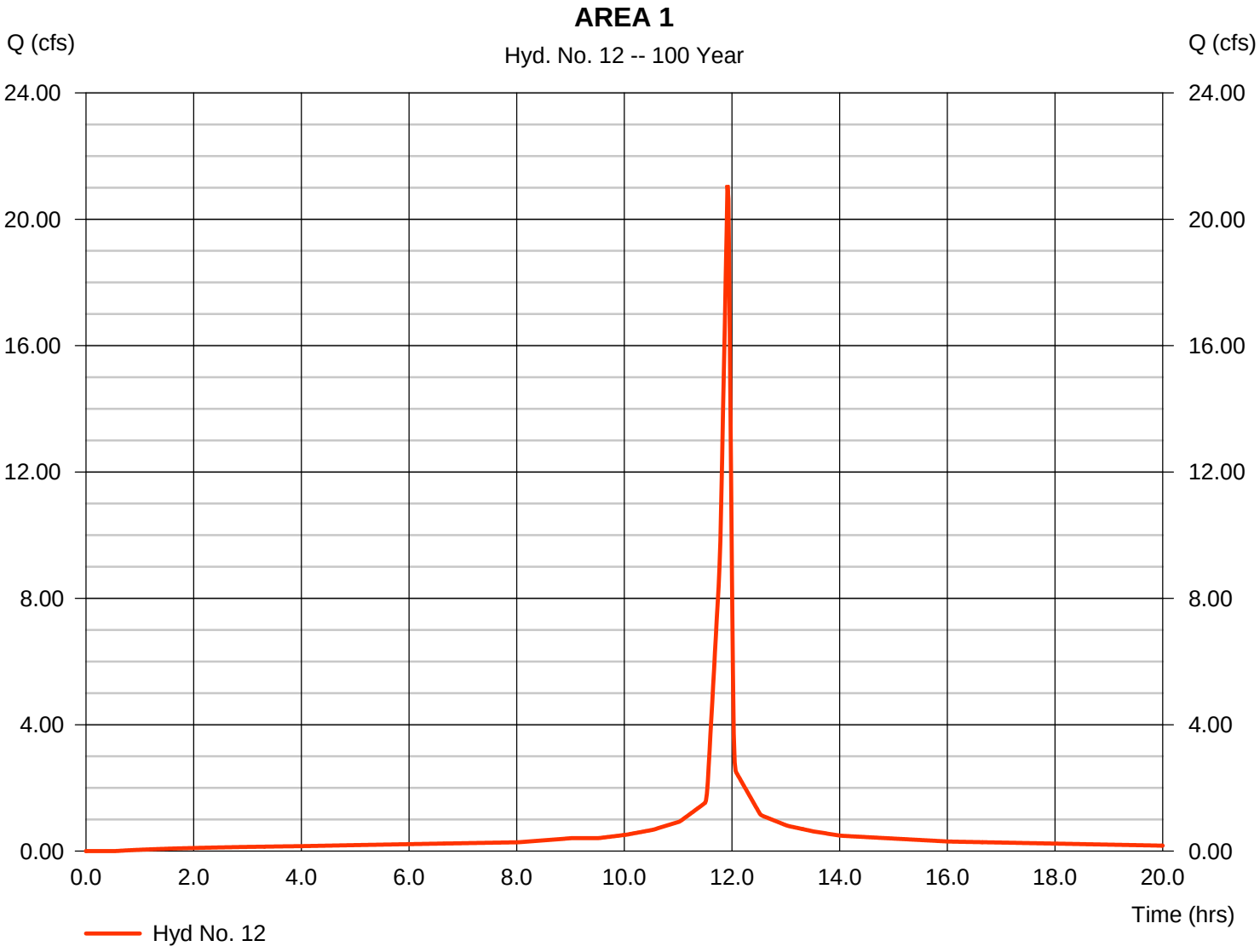


Hydrograph Report

Hyd. No. 12

AREA 1

Hydrograph type	=	SCS Runoff	Peak discharge	=	21.08 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.051 acft
Drainage area	=	1.780 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	3.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

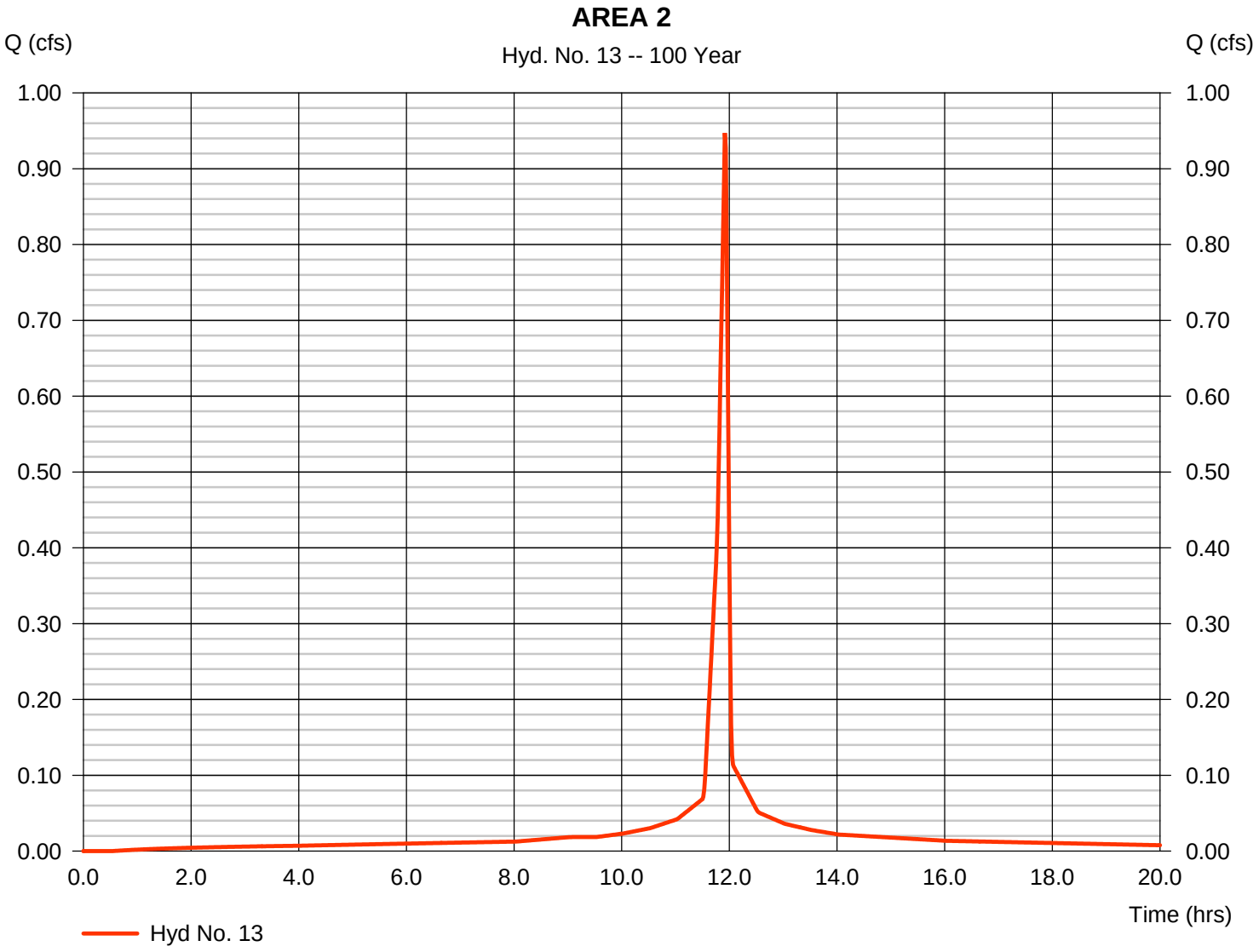


Hydrograph Report

Hyd. No. 13

AREA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.947 cfs
Storm frequency	= 100 yrs	Time to peak	= 11.92 hrs
Time interval	= 1 min	Hyd. volume	= 0.047 acft
Drainage area	= 0.080 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 2.00 min
Total precip.	= 7.80 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

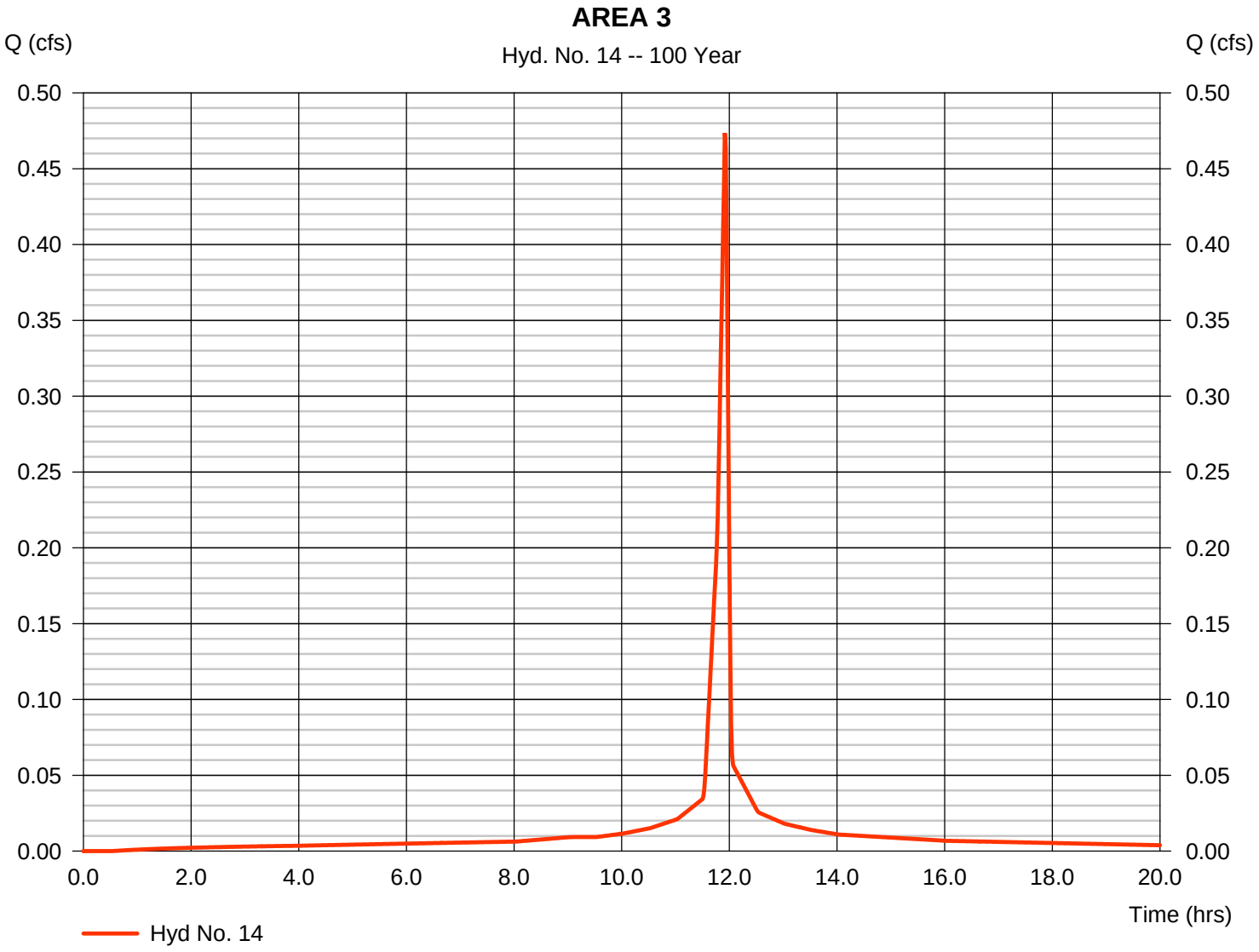


Hydrograph Report

Hyd. No. 14

AREA 3

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.474 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.024 acft
Drainage area	=	0.040 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

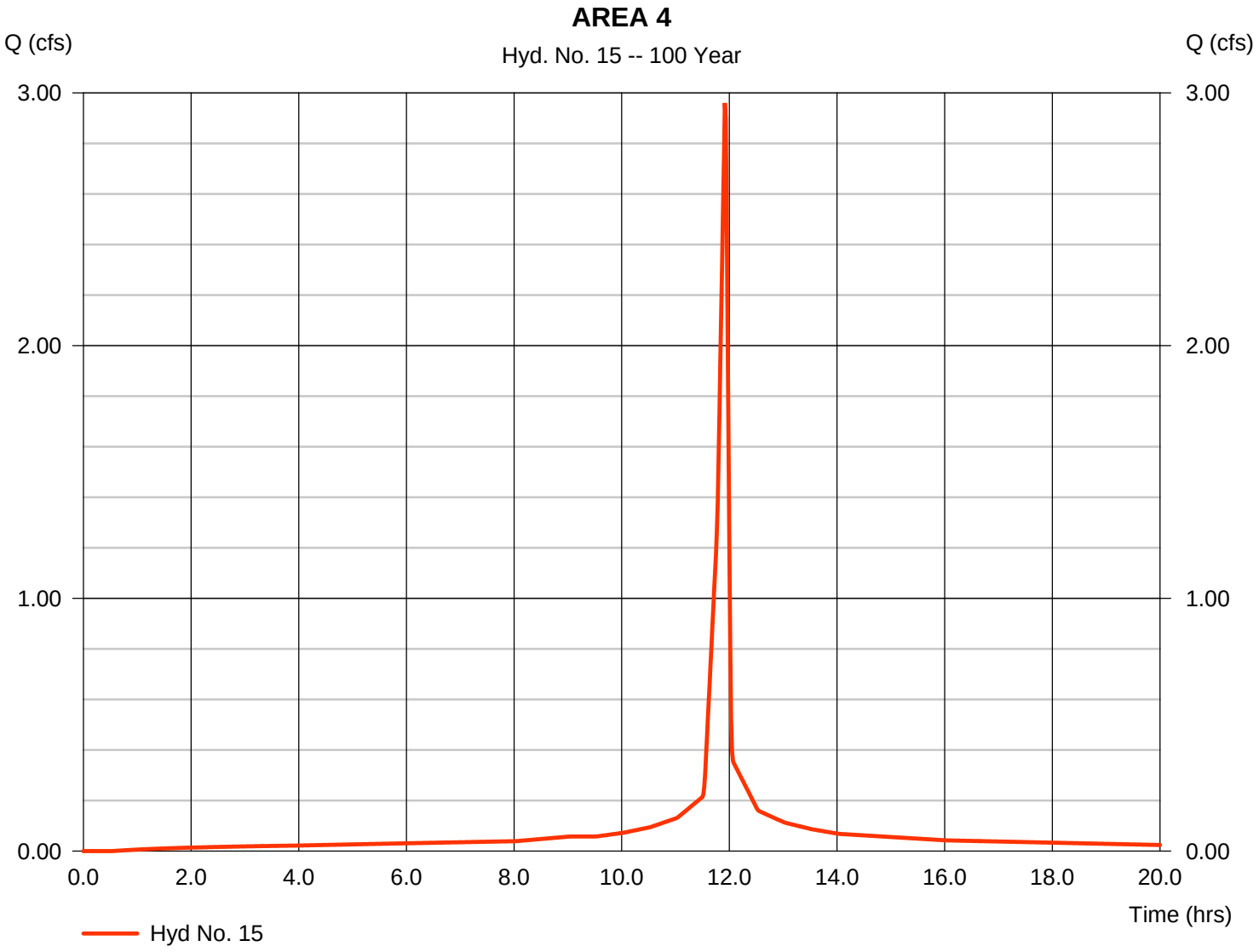


Hydrograph Report

Hyd. No. 15

AREA 4

Hydrograph type	=	SCS Runoff	Peak discharge	=	2.960 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.148 acft
Drainage area	=	0.250 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

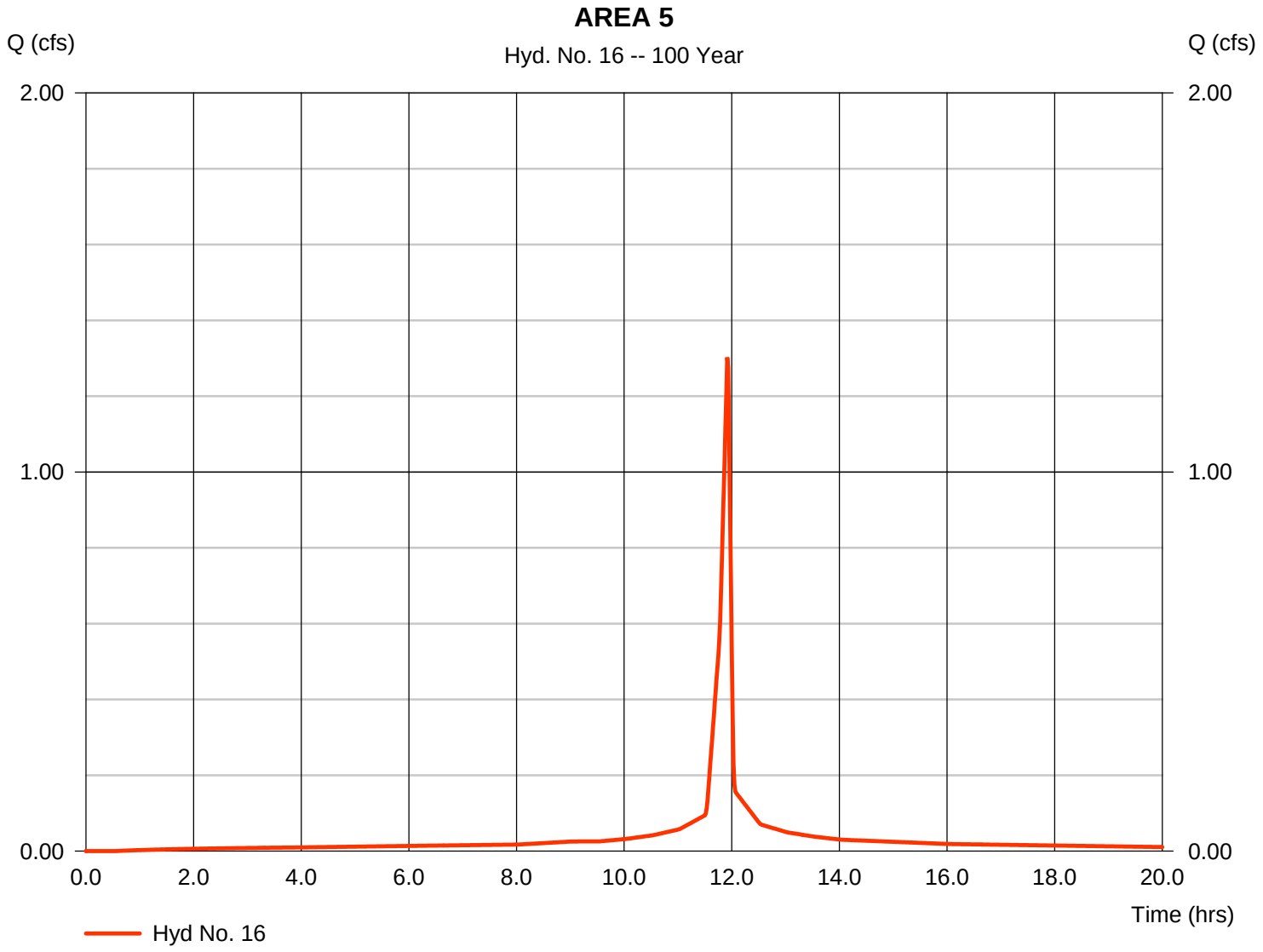


Hydrograph Report

Hyd. No. 16

AREA 5

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.302 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.065 acft
Drainage area	=	0.110 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

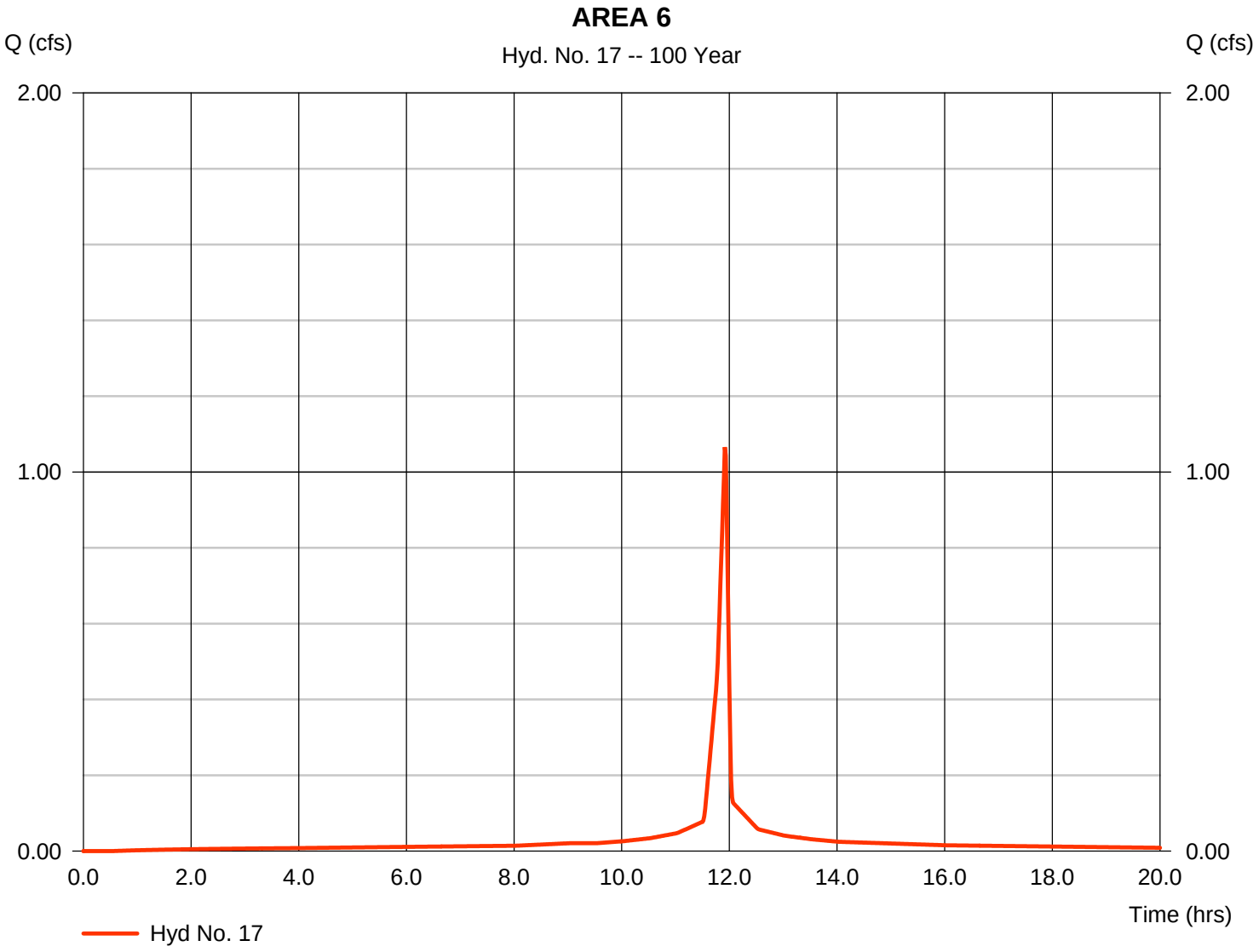


Hydrograph Report

Hyd. No. 17

AREA 6

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.066 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.053 acft
Drainage area	=	0.090 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

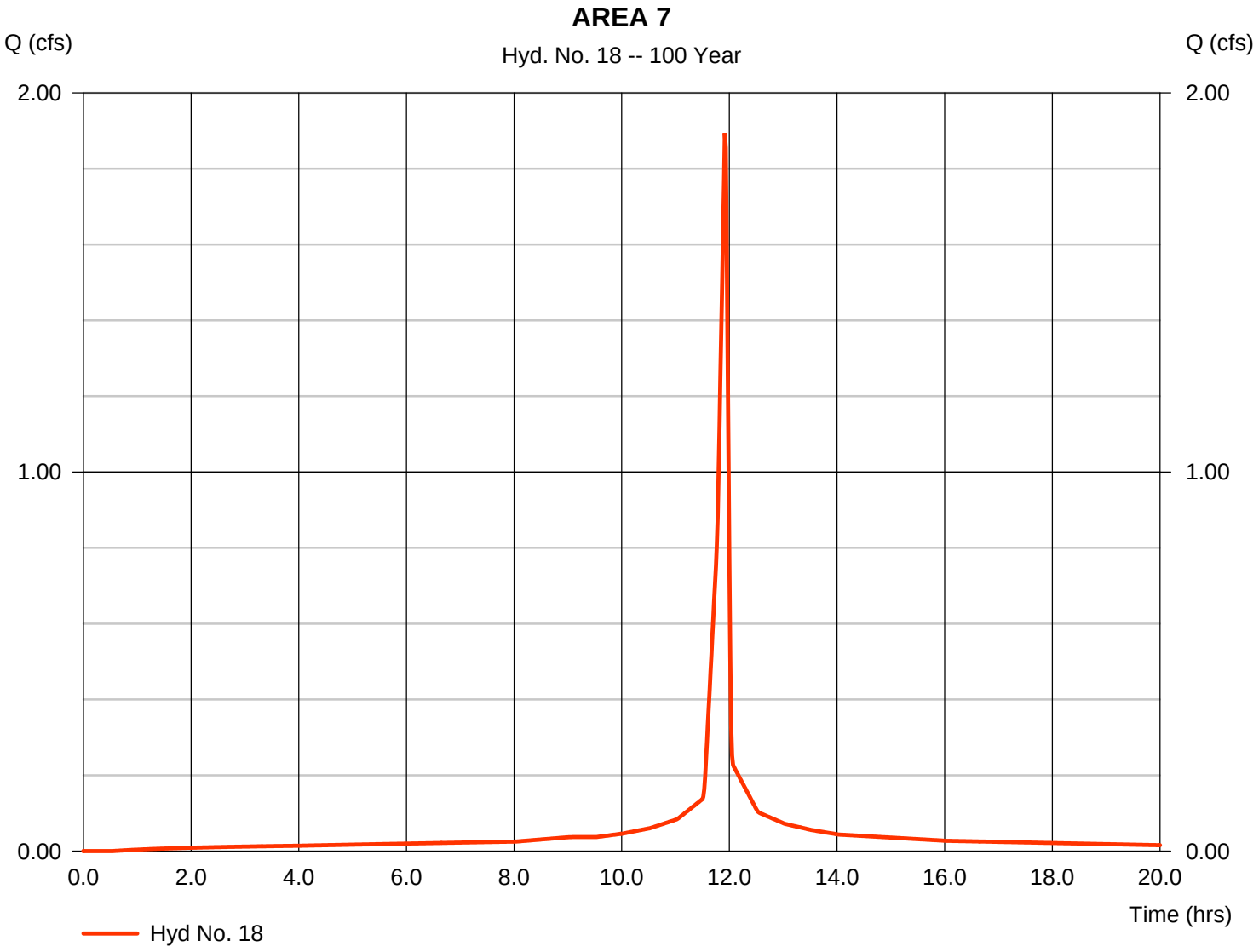


Hydrograph Report

Hyd. No. 18

AREA 7

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.895 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.095 acft
Drainage area	=	0.160 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

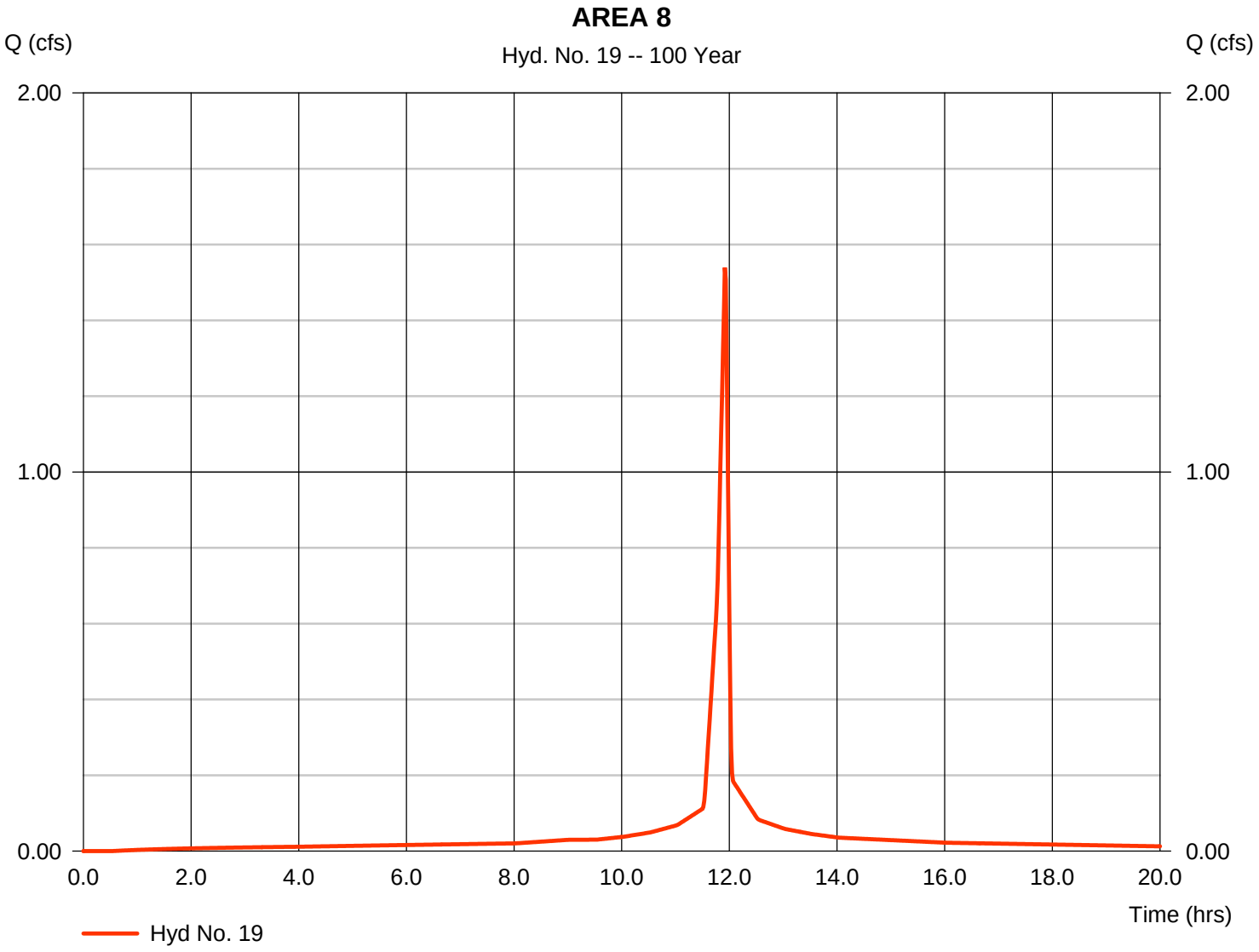


Hydrograph Report

Hyd. No. 19

AREA 8

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.539 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	0.077 acft
Drainage area	=	0.130 ac	Curve number	=	98
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	User	Time of conc. (Tc)	=	2.00 min
Total precip.	=	7.80 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

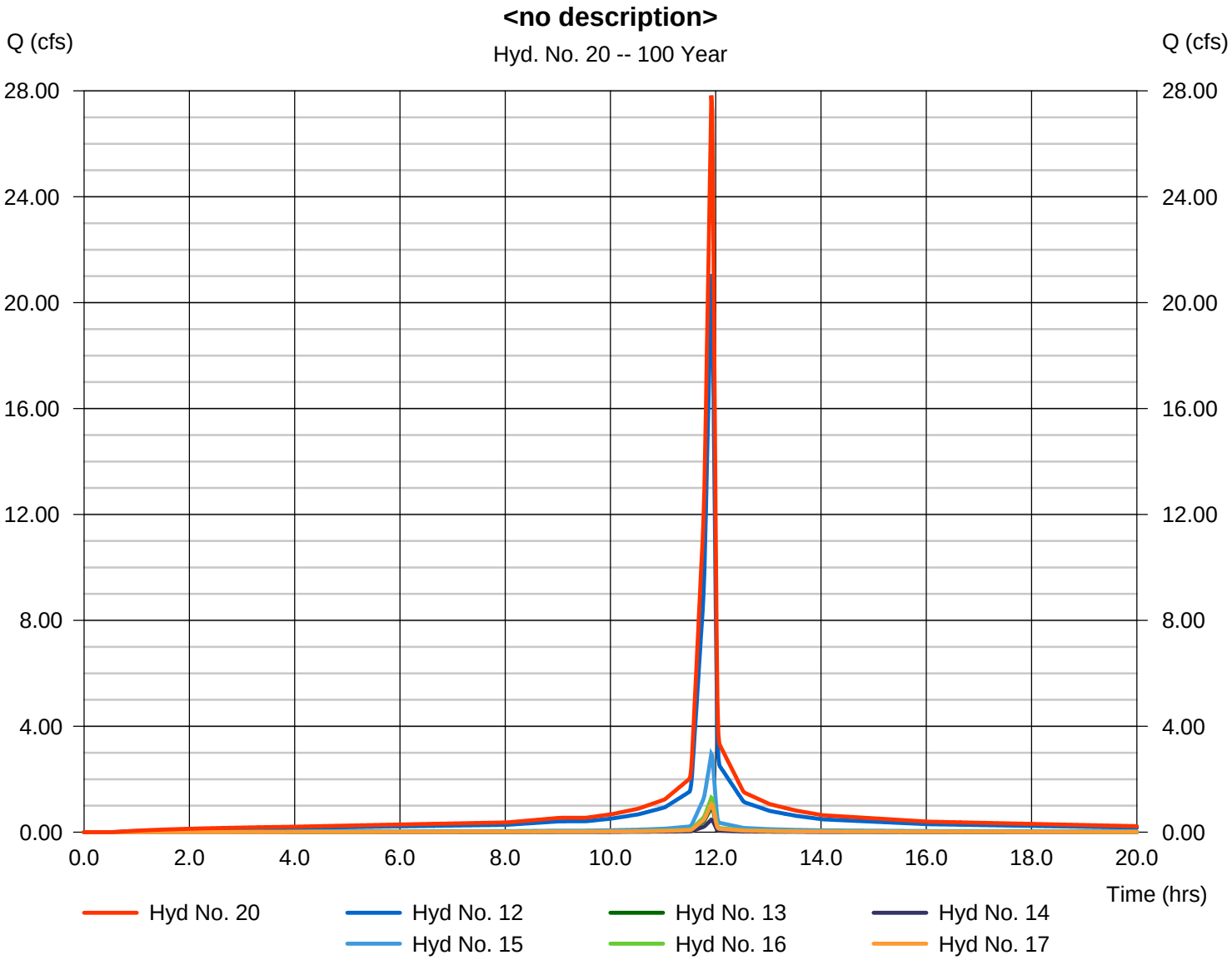


Hydrograph Report

Hyd. No. 20

<no description>

Hydrograph type	=	Combine	Peak discharge	=	27.83 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.388 acft
Inflow hyds.	=	12, 13, 14, 15, 16, 17	Contrib. drain. area	=	2.350 ac

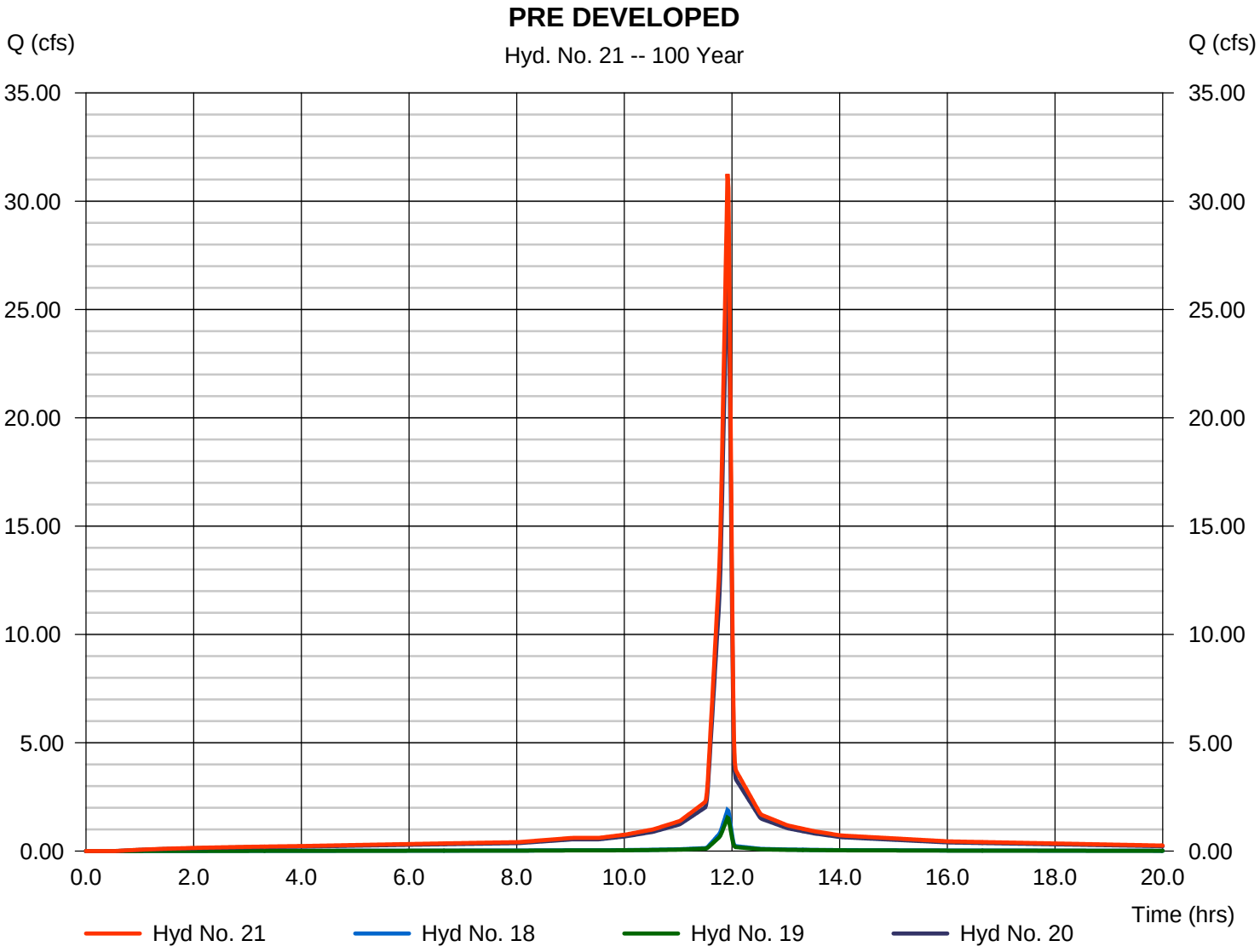


Hydrograph Report

Hyd. No. 21

PRE DEVELOPED

Hydrograph type	=	Combine	Peak discharge	=	31.26 cfs
Storm frequency	=	100 yrs	Time to peak	=	11.92 hrs
Time interval	=	1 min	Hyd. volume	=	1.559 acft
Inflow hyds.	=	18, 19, 20	Contrib. drain. area	=	0.290 ac



Hydraflow Rainfall Report

Return Period (Yrs)	Intensity-Duration-Frequency Equation Coefficients (FHA)			
	B	D	E	(N/A)
1	27.8967	9.8000	0.7047	--------
2	76.3137	14.3000	0.8844	--------
3	0.0000	0.0000	0.0000	--------
5	52.6224	11.2000	0.7497	--------
10	55.1841	11.1000	0.7229	--------
25	60.7012	11.1000	0.7068	--------
50	66.9222	11.3000	0.7004	--------
100	62.2794	10.1000	0.6624	--------

File name: WICHITA IDF.IDF

Intensity = B / (Tc + D)^E

Return Period (Yrs)	Intensity Values (in/hr)											
	5 min	10	15	20	25	30	35	40	45	50	55	60
1	4.18	3.40	2.90	2.55	2.29	2.08	1.91	1.78	1.66	1.56	1.48	1.40
2	5.57	4.54	3.85	3.35	2.97	2.67	2.43	2.23	2.06	1.92	1.80	1.69
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	6.52	5.33	4.55	3.99	3.57	3.24	2.97	2.75	2.57	2.41	2.27	2.15
10	7.40	6.09	5.22	4.60	4.13	3.76	3.46	3.21	3.00	2.82	2.67	2.53
25	8.51	7.03	6.05	5.35	4.81	4.39	4.05	3.76	3.52	3.32	3.14	2.98
50	9.47	7.86	6.78	6.00	5.41	4.94	4.56	4.24	3.98	3.75	3.55	3.37
100	10.31	8.53	7.37	6.53	5.90	5.40	5.00	4.66	4.37	4.13	3.92	3.73

Tc = time in minutes. Values may exceed 60.

. file name: C:\Users\user\Desktop\WICHITA STORMWATER\Wichita Point Rainfall Depths 24 Hour Design Storm.pcp

Storm Distribution	Rainfall Precipitation Table (in)							
	1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
SCS 24-hour	2.80	3.50	0.00	4.50	5.20	6.10	6.90	7.80
SCS 6-Hr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-1st	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-2nd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-3rd	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-4th	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Huff-Indy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Custom	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hydraflow Table of Contents