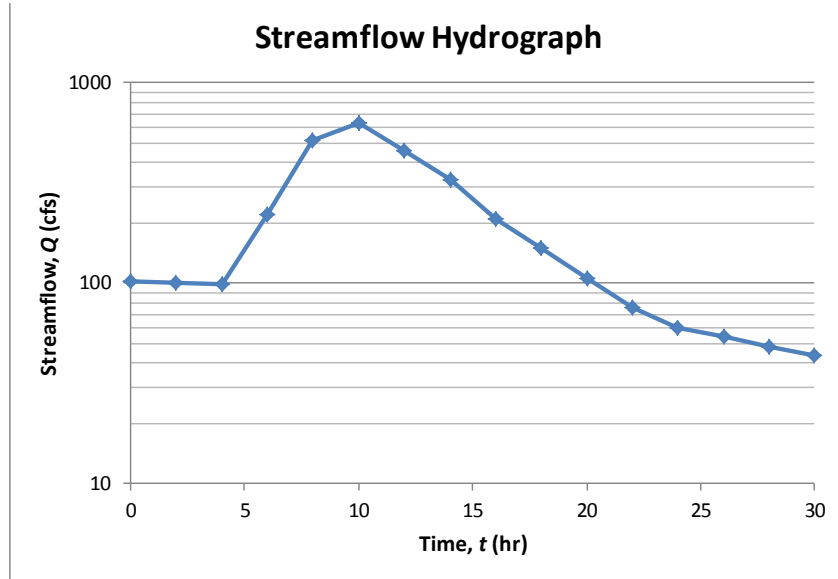


Lesson 17: Baseflow Separation Baseflow Separation Example

Baseflow Separation Examples

<i>Time</i> (hr)	<i>Q</i> (cfs)
0	102.0
2	100.0
4	98.0
6	220.0
8	512.0
10	630.0
12	460.0
14	330.0
16	210.0
18	150.0
20	105.0
22	75.0
24	60.0
26	54.0
28	48.5
30	43.5



Straight-Line Method A

<i>Time</i> (hr)	<i>Q</i> (cfs)	<i>Q_b</i> (cfs)	<i>DRH</i> (cfs)
0	102.0	102.0	0.0
2	100.0	100.0	0.0
4	98.0	98.0	0.0
6	220.0	98.0	122.0
8	512.0	98.0	414.0
10	630.0	98.0	532.0
12	460.0	98.0	362.0
14	330.0	98.0	232.0
16	210.0	98.0	112.0
18	150.0	98.0	52.0
20	105.0	98.0	7.0
22	75.0	75.0	0.0
24	60.0	60.0	0.0
26	54.0	54.0	0.0
28	48.5	48.5	0.0
30	43.5	43.5	0.0

Straight-Line Method B

<i>Time</i> (hr)	<i>Q</i> (cfs)	<i>Q_b</i> (cfs)	<i>DRH</i> (cfs)
0	102.0	102.0	0.0
2	100.0	100.0	0.0
4	98.0	98.0	0.0
6	220.0	94.2	125.8
8	512.0	90.4	421.6
10	630.0	86.6	543.4
12	460.0	82.8	377.2
14	330.0	79.0	251.0
16	210.0	75.2	134.8
18	150.0	71.4	78.6
20	105.0	67.6	37.4
22	75.0	63.8	11.2
24	60.0	60.0	0.0
26	54.0	54.0	0.0
28	48.5	48.5	0.0
30	43.5	43.5	0.0

Lesson 17: Baseflow Separation

Single Parameter Digital Filter

			α
			0.99
<i>Time</i>	<i>Q</i>	<i>Q_b</i>	<i>DRH</i>
(hr)	(cfs)	(cfs)	(cfs)
0	102.0	102.0	0.0
2	100.0	100.0	0.0
4	98.0	98.0	0.0
6	220.0	98.6	121.4
8	512.0	101.3	410.7
10	630.0	106.0	524.0
12	460.0	110.4	349.6
14	330.0	113.2	216.8
16	210.0	114.8	95.2
18	150.0	115.4	34.6
20	105.0	105.0	0.0
22	75.0	75.0	0.0
24	60.0	60.0	0.0
26	54.0	54.0	0.0
28	48.5	48.5	0.0
30	43.5	43.5	0.0
		<i>B_k</i>	<i>R_k</i>

