

## CE 44200 Introduction to Hydrology

### Assignment 13

Develop a unit hydrograph for the following event using the adjustment factor method for a watershed with an area of 7.73 Square miles. Assume a constant baseflow of 5 cfs.

Time (hr)	1	2	3	4	5	6	7	8	9	10
Q (cfs)	5	1066	1788	1115	457	288	187	134	102	84
DRH (cfs)										
UH (cfs/in)										
Time (hr)	11	12	13	14	15	16	17	18	19	20
Q (cfs)	71	61	55	50	44	38	35	31	29	26
DRH (cfs)										
UH (cfs/in)										
Time (hr)	21	22	23	24	25	26	27	28	29	30
Q (cfs)	24	23	22	20	19	18	18	17	16	16
DRH (cfs)										
UH (cfs/in)										
Time (hr)	31	32								
Q (cfs)	14	14								
DRH (cfs)										
UH (cfs/in)										

Time (hr)	0.5	1	1.5	2
P (in)	0.1	0.6	0.6	0.1
Pe (in)				

