

TR55-EB Tic-Tac-Toe WORKSHEET

Use the information given below to complete the blanks for pre-development and post-development conditions for Sites A1, A2, and A3. Assume drainage areas equal site areas.

A1		
	Pre	Post
Tc (min)	30	5
Tc (hr)		
CN	74	79
S		
Ia		
P, in	2.6	
Ia/P		
qu (csm/in)*		

\*Use Type II rainfall distribution

Q, in		
Vr, ac-ft		
Fp	1	1

DA (acres)	5.4	5.4
DA (sq mi)		

q(peak), cfs		
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q(allowable), cfs		
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A2		
	Pre	Post
Tc (min)	30	5
Tc (hr)		
CN	78	79
S		
Ia		
P, in	2.6	
Ia/P		
qu (csm/in)*		

\*Use Type II rainfall distribution

Q, in		
Vr, ac-ft		
Fp	1	1

DA (acres)	5.4	5.4
DA (sq mi)		

q(peak), cfs		
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q(allowable), cfs		
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A3		
	Pre	Post
Tc (min)	15	5
Tc (hr)		
CN	74	79
S		
Ia		
P, in	2.6	
Ia/P		
qu (csm/in)*		

\*Use Type II rainfall distribution

Q, in		
Vr, ac-ft		
Fp	1	1

DA (acres)	5.4	5.4
DA (sq mi)		

q(peak), cfs		
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q(allowable), cfs		
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**Pre** = Pre-development condition  
**Post** = Post-development condition  
**Tc** = time of concentration  
**CN** = Curve Number  
**S** = Maximum Potential Retention  
**Ia** = Initial Abstraction  
**P** = Precipitation

**qu** = Unit Peak Discharge  
**csm/in** = cubic feet per second per square mile per inch  
**Q, in** = Runoff depth in inches  
**Vr, ac-ft** = Runoff volume in ac-ft (total runoff across drainage area)  
**Vr (ac-ft) = Q(in) x DA(ac) x 1ft/12in**  
**Fp** = Pond and Swamp Adjustment Factor  
**DA, ac or sq mi** = Drainage Area in acres or square miles  
**q(peak), cfs** = Peak Discharge Rate in cubic feet per second  
**q(allowable), cfs** = Allowable Peak Discharge Rate in cubic feet per second