

Project No:	20141930.0001
Location:	Oneonta, NY
Date:	7/24/2015
By:	MJN
Sheet	1 of 4

Runoff curve number

<input checked="" type="checkbox"/> Present Conditions <input type="checkbox"/> Proposed Conditions		Existing Area 1 (West)				
Runoff curve number						
Soil name and hydrologic group (appendix A)	Cover description (cover type & hydrologic condition)	CN			Area	Product of CN x Area
		Table 2-2	Figure 2-3	Figure 2-4	<input checked="" type="checkbox"/> acre <input type="checkbox"/> mi2 <input type="checkbox"/> %	
ChD (Chenango gravelly silt loam, 15-25% slopes) A	Woods - Good Condition	30			1.26	37.80
ChD (Chenango gravelly silt loam, 15-25% slopes) A	Newly Graded Areas - Pervious, No Vegetation	77			0.60	46.51
BfC (Bath channery silt loam, 8-15% slopes) C	Woods - Good Condition	70			0.32	22.68
Totals =					2.19	106.99

CN (Weighted) = $\frac{\text{Total product}}{\text{Total area}}$ = $\frac{106.988}{2.188}$ = 48.90 **Use CN** **48.9**

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Runoff curve number

<input checked="" type="checkbox"/> Present Conditions		<input type="checkbox"/> Proposed Conditions		Existing Area 2 (East)			
Runoff curve number							
Soil name and hydrologic group (appendix A)		Cover description (cover type & hydrologic condition)	CN			Area	Product of CN x Area
			Table 2-2	Figure 2-3	Figure 2-4	<input checked="" type="checkbox"/> acre <input type="checkbox"/> mi2 <input type="checkbox"/> %	
ChD (Chenango gravelly silt loam, 15-25% slopes)	A	Woods - Good Condition	30			0.10	3.00
ChD (Chenango gravelly silt loam, 15-25% slopes)	A	Newly Graded Areas - Pervious, No Vegetation	77			0.16	12.32
BfC (Bath channery silt loam, 8-15% slopes)	C	Woods - Good Condition	70			0.74	51.80
BfC (Bath channery silt loam, 8-15% slopes)	C	Impervious Pavement	98			0.09	8.82
Totals =						1.09	75.94

$$\text{CN (Weighted)} = \frac{\text{Total product}}{\text{Total area}} = \frac{75.94}{1.09} = 69.67 \quad \text{Use CN } \boxed{69.7}$$

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Runoff curve number

<input type="checkbox"/> Present Conditions		<input checked="" type="checkbox"/> Proposed Conditions		Proposed Area 1 West		
Runoff curve number						
Soil name and hydrologic group (appendix A)	Cover description (cover type & hydrologic condition)	CN			Area	Product of CN x Area
		Table 2-2	Figure 2-3	Figure 2-4	<input checked="" type="checkbox"/> acre <input type="checkbox"/> mi2 <input type="checkbox"/> %	
ChD (Chenango gravelly silt loam, 15-25% slopes) A	Open Space - Good	39			0.89	34.71
ChD (Chenango gravelly silt loam, 15-25% slopes) BfC (Bath channery silt loam, 8-15% slopes)	Impervious	98			1.16	113.68
BfC (Bath channery silt loam, 8-15% slopes) C	Open Space - Good	74			0.20	14.80
BfC (Bath channery silt loam, 8-15% slopes) C	Woods - Good Condition	70			0.26	17.92
Totals =					2.51	181.11

$$\text{CN (Weighted)} = \frac{\text{Total product}}{\text{Total area}} = \frac{181.11}{2.506} = 72.27 \quad \text{Use CN } \boxed{72.3}$$

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Runoff curve number

<input type="checkbox"/> Present Conditions		<input checked="" type="checkbox"/> Proposed Conditions		Proposed Area 2 East		
Runoff curve number						
Soil name and hydrologic group (appendix A)	Cover description (cover type & hydrologic condition)	CN			Area	Product of CN x Area
		Table 2-2	Figure 2-3	Figure 2-4	<input checked="" type="checkbox"/> acre <input type="checkbox"/> mi2 <input type="checkbox"/> %	
ChD (Chenango gravelly silt loam, 15-25% slopes) A	Open Space - Good	39			0.16	6.24
ChD (Chenango gravelly silt loam, 15-25% slopes) BfC (Bath channery silt loam, 8-15% slopes)	Impervious	98			0.16	15.68
BfC (Bath channery silt loam, 8-15% slopes) C	Open Space - Good	74			0.45	33.15
Totals =					0.77	55.07

CN (Weighted) = $\frac{\text{Total product}}{\text{Total area}}$ = $\frac{55.072}{0.768}$ = 71.71 **Use CN** **71.8**