

APPENDIX J

Rainfall Precipitation Data

Precipitation Frequency Data: Washtenaw County, Michigan

The following table indicates the expected design precipitation for a particular duration and return period. The data was obtained from the *U.S. Weather Bureau Technical Paper No. 40, Rainfall Frequency Atlas of the United States, 1961*. The 24-hour data for return periods greater than one year was obtained from *Computing Flood Discharges for Small Ungaged Watersheds, Sorrell and Hamilton, Michigan Department of Natural Resources, 1991*.

Duration	Return Period						
	1 yr.	2 yr.	5 yr.	10 yr.	25 yr.	50 yr.	100 yr.
30 min.	0.8	1.0	1.2	1.4	1.6	1.8	1.9
1 hour	1.0	1.2	1.5	1.7	2.0	2.3	2.5
2 hours	1.2	1.4	1.8	2.1	2.3	2.7	2.9
3 hours	1.3	1.6	1.9	2.3	2.6	2.8	3.2
6 hours	1.6	1.8	2.3	2.7	3.0	3.2	3.7
12 hours	1.7	2.2	2.7	3.1	3.5	3.8	4.3
24 hours	2.1	2.5	3.0	3.4	4.0	4.4	4.9

U.S. Soil Conservation Service Type II Storms

The data in the following table was obtained from the *"Engineering Field Manual for Conservation Practices", U.S. Dept. of Agriculture, Soil Conservation Service*.

Storm Frequency	24 Hour Rainfall (inches)
1 yr.	2.2"
2 yr.	2.4"
5 yr.	3.1"
10 yr.	3.6"
25 yr.	4.1"
50 yr.	4.5"
100 yr.	4.8"