

6.3 Symbols And Definitions

To provide consistency within this chapter as well as throughout this manual the following symbols will be used. These symbols were selected because of their wide use in hydrologic publications.

Table 6-1 Symbols And Definitions

<u>Symbol</u>	<u>Definition</u>	<u>Units</u>
A	Drainage area	ha, km ² (acres, mi ²)
BDF	Basin development factor	-
C	Runoff coefficient	-
C _f	Frequency factor	-
CN	NRCS-runoff curve number	-
C _t , C _p	Physiographic coefficients	-
d	Time interval	h
DH	Difference in elevation	m (ft)
I	Rainfall intensity	mm/h (in/hr)
IA	Percentage of impervious area	%
I _a	Initial abstraction from total rainfall	mm (in)
K	Frequency factor for a particular return period and skew	-
L	Lag	h
l	Length of mainstream to furthest divide	m (ft)
L _{ca}	Length along main channel to a point opposite the watershed centroid	km (mi)
M	Rank of a flood within a long record	-
n	Manning roughness coefficient	-
N	Number of years of flood record	years
NRCS	Natural Resources Conservation Service (formerly Soil Conservation Service)	-
P	Accumulated rainfall	mm (in)
Q	Rate of runoff	m ³ /s (cfs)
q	Storm runoff during a time interval	mm (in)
R	Hydraulic radius	m (ft)
RC	Regression constant	-
RQ	Equivalent rural peak runoff rate	m ³ /s (cfs)
S or Y	Ground slope	m/m, m/km (ft/ft, ft/mi) or %
S	Potential maximum retention storage	mm (in)
SL	Main channel slope	m/m (ft/ft)
S _L	Standard deviation of the logarithms of the peak annual floods	-
ST	Basin storage factor	%
T _B	Time base of unit hydrograph	h
t _c or T _c	Time of concentration	min or h
T _L	Lag time	h
T _r	Snyder's duration of excess rainfall	h
UQ	Urban peak runoff rate	m ³ /s (cfs)
V	Velocity	m/s (ft/s)
X	Logarithm of the annual peak	-