

Symbol	Definition	Units
A	Drainage area	acres (or mi ²)
A _f or A _s	Sedimentation surface area	ft ²
B _f	Baseflow	cfs
C	Runoff coefficient	-
C _f	Frequency factor	-
CN	SCS-runoff curve number	-
CP _v	Channel protection volume	acre-feet
d	Time interval	hours
D	Depth	ft
D	Diameter	in
d _f	Filter bed depth	ft
D _{wq}	Water quality runoff depth	in
E	Evaporation	ft
E	Trap efficiency	-
E _l	Elevation	ft
E _t	Evapotranspiration	ft
F _p	Pond and swamp adjustment factor	-
G _h	Hydraulic gradient	ft/ft
H or h	Hydraulic Head	ft
h _f	Average height of water above filter bed	ft
I or i	Runoff intensity	in/hr
I _A	Percent of impervious cover	%
I	Infiltration	ft
I	Percent of Impervious Area	%
I _a	Initial abstraction from total rainfall	in
k	Coefficient of permeability	ft/day
k _h	Infiltration rate	ft/day
L	Length	ft
L	Flow length	ft
n	Manning roughness coefficient (Manning's "n")	-
N	Porosity	-
O _f	Overflow	acre-feet
O	Outflows	cfs
P	Accumulated rainfall	in
P ₂	2-year, 24-hour rainfall	in
P _w	Wetted perimeter	ft
PF	Peaking factor	-
Q	Rate of runoff or depth of runoff	cfs or inches
Q _p	Peak rate of discharge	cfs
Q _{p2}	2-year event peak discharge	cfs
Q _{p10}	10-year event peak discharge	cfs
Q _{p25}	25-year event peak discharge	cfs
Q _{p100}	100-year event peak discharge	cfs
Q _{wq}	Water quality peak discharge	cfs
q	Storm runoff during a time interval	in
q _i	Peak inflow	cfs

Symbol	Definition	Units
q_o	Peak outflow	cfs
q_u	Unit peak discharge	cfs (or cfs/mi ² /inch)
R	Clark watershed storage constant	hours
R	Hydraulic radius	ft
R_o	Runoff	acre-feet
Rv	Runoff coefficient	-
S	Ground slope	ft/ft or %
S	Potential maximum retention	in
S	Slope of hydraulic grade line	ft/ft
Tc	Time of concentrations	min or hrs
t	Time	minutes or hours
t_f	Drain time	days
T_L	Lag time	hours
T_p	Time to peak	hours
TSS	Percent TSS removal	%
T_t or t_t	Travel time	min or hours
t	Time	min
Tc	Time of concentration	min
t_f	Filter bed drain time	day
TIA	Total impervious area	%
V	Velocity	ft/s
V or Vol	Volume	acre-feet
V_{pre}	Pretreatment Volume	acre-feet
V_s	Required storage volume	acre-feet
V_r	Runoff volume	acre-feet
V_f or V_r	Volume in filter bed	cf
W	Width	ft
WQv	Water quality volume	acre-feet
W_s	Average ground surface slope as a percentage	%
WSEL	Water surface elevation	ft

Abbreviation	Definition
ARAP	Aquatic Resource Alteration Permit
BMP	Best Management Practice
ED	Extended Detention
EPA	Environmental Protection Agency
EPSC	Erosion Prevention and Sediment Control
ESA	Endangered Species Act
FFE	Finished Floor Elevation
MEP	Maximum Extent Practicable
NPDES	National Pollutant Discharge Elimination System
MS4	Municipal Separate Storm Sewer System
SPAP	Special Pollutant Abatement Permit
TDEC	Tennessee Department of Environment and Conservation
TDOT	Tennessee Department of Transportation
TMDL	Total Maximum Daily Load
TNGCP	Tennessee Construction General Permit
TSS	Total Suspended Solids
TVA	Tennessee Valley Authority
US	United States
USFWS	United States Fish and Wildlife Service
WQMP	Water Quality Management Plan
WQv	Water Quality Volume