

Appendix 11A-2

Symbols

<u>Symbol</u>	<u>Definition</u>	<u>Units</u>
a	Rainfall regression constant	-
A	Cross-sectional or surface area	ft <sup>2</sup>
A	Drainage area	ac
b	Rainfall regression constant	-
C	Runoff coefficient	-
C	Broad-crested weir coefficient or orifice coefficient	-
d	Change in elevation	ft
D	Depth of basin or diameter of pipe	ft
d	Orifice diameter	ft
g	Acceleration due to gravity	ft/s <sup>2</sup>
H	Depth of water	ft
h	Head	ft
h <sub>avg</sub>	Average head	ft
h <sub>max</sub>	Maximum head	ft
I	Inflow rate	cfs
I <sub>1</sub>	Inflow rate at time 1	cfs
I <sub>2</sub>	Inflow rate at time 2	cfs
L	Broad-crested weir length	ft
O <sub>1</sub>	Outflow rate at time 1	cfs
O <sub>2</sub>	Outflow rate at time 2	cfs
Q <sub>avg</sub>	Average flow rate	cfs
Q <sub>i</sub>	Peak inflow rate	cfs
q <sub>o</sub>	Allowable outflow rate	cfs
Q <sub>o</sub>	Peak outflow rate	cfs
Q	Discharge or flow rate	cfs
S	Storage volume	ft <sup>3</sup> , ac.ft
S <sub>1</sub>	Storage volume at time 1	ft <sup>3</sup>
S <sub>2</sub>	Storage volume at time 2	ft <sup>3</sup>
SP	Storage parameter (Pagan Method)	-
STO	Maximum storage volume (Pagan Method)	-
Δt	Routing time period (timestep)	sec
t <sub>b</sub>	Time base on hydrograph	hrs or min
t <sub>c</sub>	Time of concentration	min
T <sub>d</sub>	Critical storm duration	min
T <sub>i</sub>	Duration of basin inflow	hrs or min
t <sub>p</sub>	Time to peak	hrs or min
V <sub>ce</sub>	Channel erosion control volume	ft <sup>3</sup> , ac.ft
V	Storage volume	ft <sup>3</sup> , ac.ft
V <sub>s</sub>	Storage volume estimate	ft <sup>3</sup> , ac.ft
WQV	Water quality volume	ft <sup>3</sup>