



3.2.2 Symbols and Definitions

To provide consistency within this section, the symbols listed in Table 3-20 will be used. These symbols were selected because of their wide use in technical publications. In some cases, the same symbol is used in existing publications for more than one definition. Where this occurs in this section, the symbol will be defined where it occurs in the text or equations.



Figure 3-13. Example Stage-Discharge Curve

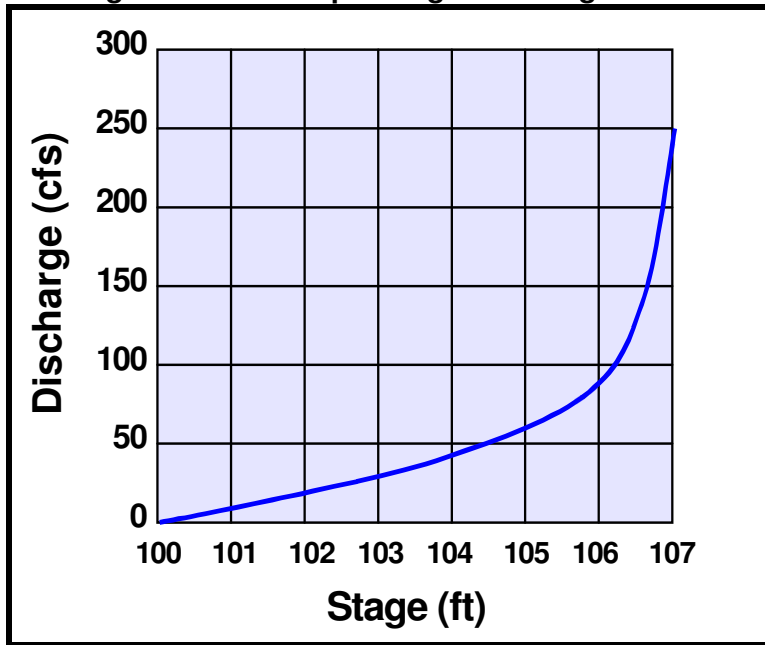


Table 3-20. Symbols and Definitions for Storage Design

Symbol	Definition	Units
a,b	Rainfall factors for Modified Rational Method	-
A	Cross sectional or surface area	ft ²
A	Drainage area	acres (or mi ²)
C _w	Weir coefficient	-
C	Rational Method Runoff Coefficient	-
CN	Curve number	-
CP _v	Channel protection volume	acre-ft
d	Change in elevation	ft
D	Depth of basin or diameter of pipe	ft
g	Acceleration due to gravity	ft/s ²
H	Head on structure	ft
H _C	Height of weir crest above channel bottom	ft
i	Rainfall intensity	in/hr
L	Length	ft
P _x	Storm depth for x duration storm	in
q _i , q _o	Peak inflow or outflow rate	cfs, in
R	Surface Radii	ft
R _v	Runoff coefficient	-
t	Routing time period	sec
t _b	Time base of hydrograph	sec, hr
t _c	Time of concentration	min
T _d	Critical storm duration	min
T _i	Duration of basin inflow	hr, min, sec
t _p	Time to peak of hydrograph	hr
T _t	Travel time	min
V, V _s	Storage volume	ft ³ , acre-ft
V _r	Runoff volume	ft ³ , acre-ft
W	Width of basin	ft
WQ _v	Water quality volume	acre-ft



Symbol	Definition	Units
Z	Side slope factor	-