Revision History

Publication Series and Series Number: Scientific Investigations Report 2007-5158
Publication Title: Methods for Estimating Magnitude and Frequency of Peak Flows for Natural Streams in Utah
Publication Authorship: T.A. Kenney, C.D. Wilkowske, and S.J. Wright
First Version and Date of Release: 1.0 August 31, 2007
Current Version and Date of Current Release: 4.0 March 10, 2008

List of Changes for Revision 2.0

On Cover:
Addition of "Version 2.0, October 2007" under report series and number.

On Title page:
Addition of "Version 2.0, October 2007" under report series and number.

On page 13, Table 5, for Region 1 Equations:

Changed from:
$PK2 = 1.52\ DRNAREA^{0.677}\ (ELEV/1{,}000)^{0.144}$
$PK5 = 5.49\ DRNAREA^{0.614}\ (ELEV/1{,}000)^{0.113}$
$PK10 = 10.3\ DRNAREA^{0.581}\ (ELEV/1{,}000)^{0.098}$
$PK25 = 19.7\ DRNAREA^{0.547}\ (ELEV/1{,}000)^{0.084}$
$PK50 = 29.4\ DRNAREA^{0.524}\ (ELEV/1{,}000)^{0.075}$
$PK100 = 40.4\ DRNAREA^{0.512}\ (ELEV/1{,}000)^{0.068}$
$PK200 = 58.2\ DRNAREA^{0.483}\ (ELEV/1{,}000)^{0.061}$
$PK500 = 85.4\ DRNAREA^{0.457}\ (ELEV/1{,}000)^{0.053}$

Changed to:
$PK2 = 1.52\ DRNAREA^{0.677}\ 1.39^{(ELEV/1{,}000)}$
$PK5 = 5.49\ DRNAREA^{0.614}\ 1.30^{(ELEV/1{,}000)}$
$PK10 = 10.3\ DRNAREA^{0.581}\ 1.25^{(ELEV/1{,}000)}$
$PK25 = 19.7\ DRNAREA^{0.547}\ 1.21^{(ELEV/1{,}000)}$
$PK50 = 29.4\ DRNAREA^{0.524}\ 1.19^{(ELEV/1{,}000)}$
$PK100 = 40.4\ DRNAREA^{0.512}\ 1.17^{(ELEV/1{,}000)}$
$PK200 = 58.3\ DRNAREA^{0.483}\ 1.15^{(ELEV/1{,}000)}$
$PK500 = 85.4\ DRNAREA^{0.457}\ 1.13^{(ELEV/1{,}000)}$

List of Changes for Revision 3.0

On Cover:
Addition of "Version 3.0, January 4, 2008" under report series and number.

On Title page:
Addition of "Version 3.0, January 4, 2008" under report series and number.

On page 4:
Figure 2 has been revised.

On page 5:
Text changed from:
Streams that drain small drainage basins (less than 20 mi^2) in Utah appear to exceed the envelope curve for maximum rainfall-runoff floods in the United States (Costa, 1987), while streams that drain larger drainage basins (greater than 20 mi^2) appear well below the limit. The reason for the differences for the smaller drainage areas is not known.

Text changed to:
Maximum natural peak flows for streams in Utah are well below the envelope curve of the United States (Costa, 1987).

On page 8:
Equation 3 changed from:

$$Q_{T(u)} = \left[\frac{(Q_{T(g1)}(DA_{g2}\ DA_u) + Q_{T(g2)}(DA_u\ DA_{g1}))}{(DA_{g2}\ DA_{g1})} \right]$$

Equation 3 changed to:

$$Q_{T(u)} = \left[\frac{(Q_{T(g1)}(DA_{g2} - DA_u) + Q_{T(g2)}(DA_u - DA_{g1}))}{(DA_{g2} - DA_{g1})} \right]$$

List of Changes for Revision 4.0

On Cover:
Addition of “Version 4.0, March 10, 2008” under report series and number.

On Title page:
Addition of “Version 4.0, March 10, 2008” under report series and number.

On page 13, Table 5, for Region 2 Equations:

Changed from:
$PK200 = 8.79\ DRNAREA^{0.592}\ 1.05^{\ PRECIP}$

Changed to:
$PK200 = 8.79\ DRNAREA^{0.592}\ ^{1}\ 1.055^{\ PRECIP}$

Footnote added:
[1] Value not rounded for accuracy purposes.