

# Highways in the River Environment

## Floodplains, Extreme Events, Risk, and Resilience

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### Errata Sheet

February 24, 2020 – version 4.0

#	Page	Object	Description
1	4-15	Last equation in implementation box	<i>The last term in equation is “Ks” where it should be “K<sub>x</sub> S” as shown:</i> $\log_{10}(Q_x) = \overline{LQ} + 0.00658 \left( t - \frac{n+1}{2} \right) + K_x S$ <i>(February 6, 2017)</i>
2	3-10	Equation 3.3	Changed coefficient “2404” to “2080” as shown: $Q_{100} = 2080A^{0.5094}$ <i>(July 18, 2017)</i>
3	3-10	Paragraph following Equation 3.3	Changed sentence that says: “For example, the logarithm of the standard error in Equation 3.2 is 0.37.” to read “For example, the logarithm of the standard error in Equation 3.3 is 0.37.” <i>(July 18, 2017)</i>
4	-	EO 13690 & FFRMS	Section 6 of Executive Order (EO) 13807 “Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure Projects” revoked EO 13690. Within this manual, no requirements of EO 13690 or the Federal Flood Risk Management Standard (FFRMS) apply or otherwise represent any guidance, recommendation, or practice. <i>(August 15, 2017)</i>
5	3-6	Equation 3.1	Equation 3.1 had $\alpha$ conversion variable, allowing for both CU and SI units. HEC-17 only uses CU in equations. Edited equation to solely reflect CU convention (i.e., removed $\alpha$ conversion variable in equation and in description) as shown: $Q = ciA$ . <i>(December 29, 2017)</i>
6	4-13	Last Paragraph	Change “(67 percent increase)” to “(59 percent increase)” Change “(16 percent increase)” to “(31 percent increase)” <i>(February 24, 2020)</i>
7	4-14	Table 4-1	Revise values on last column “Estimate Adjusting for Nonstationarity” to from 120 to <b>111</b> for 0.50 AEP; 220 to <b>219</b> for 0.10 AEP; and 370 to <b>420</b> for 0.01 AEP. <i>(February 24, 2020)</i>
8	4-15	Variable descriptions in last equation of implementation box	Change descriptions to: $K_x$ = frequency factor for the x-percent AEP <i>for</i> skew of $\log_{10}(Q)$ ( <b>0.465</b> in this example) $S$ = <b>standard deviation</b> from the logarithmic residuals (0.2106 in this example) <i>(February 24, 2020)</i>

#### Notes:

- No update to the publication is planned at this time.
- FHWA does not have any printed copies of this document.
- The electronic file does not contain or reflect some of these errata.