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Railroad-Highway Grade Crossing Handbook—Revised Second Edition 2007

Federal Highway Administration (FHWA), Office of Safety and Design

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- On page 56, the formula should read:

$$B = \frac{T_0}{T_0 + T}(a) + \frac{T}{T_0 + T} \left(\frac{N}{T} \right)$$

- On page 46, the following formula needs to be added before “Values for the second collision prediction...”:

T_0 = Formula weighting factor,

$$T_0 = \frac{1.0}{(0.05 + a)}$$

- On page 67, the formula should read:

$$d_T = \frac{V_T}{V_v} \left(AV_v t + \frac{BV_v^2}{a} + 2D + L + W \right)$$

V_T = velocity of the train, mph (for equation 7)

V_T = velocity of the train, km/hr (for equation 8)

- On page 68, the formulas should read:

$$d_T = 1.47V_T \left(\frac{V_G}{a_1} + \frac{L + 2D + W - d_a}{V_G} + J \right)$$

$$d_T = 0.278V_T \left(\frac{V_G}{a_1} + \frac{L + 2D + W - d_a}{V_G} + J \right)$$

- On page 175, the formula after “Posted speed 40 mph or less” should read:

$$\frac{L=WS^2}{60}$$



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- On page 177, the formula after “Posted speed 45 mph or more” should read:

$$L=WS$$

- In Table 9, WB-109D should not be followed by an asterisk..