

PITCHED BALL SPEED, BAT SWING SPEED, BALL EXIT VELOCITY

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Ball Exit Velocity (BEV) = Pitched Ball Speed (PBS) x Q + Bat Swing Speed (SS) x (1+Q)

at contact

Where Q is a collision factor of a well struck ball from an efficient swing

For BBCOR equipment, Q is a maximum of 0.2

$$\mathbf{BEV = 0.2 \times PBS + 1.2 \times SS}$$

For a ball hit off a tee, PBS is zero

$$\mathbf{BEV = 1.2 \times SS}$$