

190. For a particular policy, the conditional probability of the annual number of claims given $\Theta = \theta$, and the probability distribution of Θ are as follows:

Number of claims	0	1	2
Probability	2θ	θ	$1-3\theta$

θ	0.05	0.30
Probability	0.80	0.20

Two claims are observed in Year 1.

Calculate the Bühlmann credibility estimate of the number of claims in Year 2.

- (A) Less than 1.68
- (B) At least 1.68, but less than 1.70
- (C) At least 1.70, but less than 1.72
- (D) At least 1.72, but less than 1.74
- (E) At least 1.74