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I ρ_{cs}

$$\left(\frac{C_1}{C_2}\right)$$

$$M = \sqrt{\frac{C_1}{C_2} \times \frac{1-\rho}{\rho}}$$

$$Deff = 1 + n_{cs}[M - 1]$$

$$N_{cs} = N_{srs} \times Deff_{cs}$$

Deff_{cs}

Single-stage Cluster Sampling

Stratified random sampling

$$N_i = N_{srs} \times D_i$$

N_i

D_i

(M)

Design Effect (Deff)

$$I = \frac{S_i}{N_i}$$

N_i

S_i

Interclass

Correlation Coefficient (ρ_{cs})

I

()
(I)
(α)

$$N_{srs} = \frac{Z^2_{1-\alpha/2} [P \times (1-P)]}{d^2}$$

α+I

$$n = \frac{N}{M} = 34$$

α+(n-1)I

% (α)
%

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% %
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I

$$I = \frac{Si}{Ni}$$

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Construction)

Factorial)

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Reliability test

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