

Stratified Sampling

<https://fc51c6ea5ac04d00a5d4c3862112b730.app.posit.cloud/p/3b3a14f6/> | [Open in Browser](#) | [Publish](#)

[Calculator](#) [Results](#) [Help](#)

Global Parameters

Desired Precision (d):	Z-value (95% CI = 1.96):
5	1.96

Stratum 1

Population (N):	1000
Variance (σ^2):	100
Cost per unit:	10
Time per unit:	5

Stratum 2

Population (N):	1500
Variance (σ^2):	200
Cost per unit:	15
Time per unit:	8

Stratum 3

Population (N):	2000
Variance (σ^2):	150
Cost per unit:	12
Time per unit:	6

[Calculate Sample Allocations](#)

Stratified Sampling

[Calculator](#) [Results](#) [Help](#)

9

Proportional Total

25

Neyman Total

25

Optimised Total

Proportional Allocation

Stratum	Allocation
1 Stratum 1	2
2 Stratum 2	3
3 Stratum 3	4

Neyman Allocation

Stratum	Allocation
1 Stratum 1	5
2 Stratum 2	9
3 Stratum 3	11

Optimised Allocation

Stratum	Allocation
1 Stratum 1	5
2 Stratum 2	9
3 Stratum 3	11

Cost & Time Comparison

Method	Total_Samples	Total_Cost	Total_Time
Proportional	9	113	58
Neyman	25	317	163
Optimised	25	317	163