Figure 1: Simple Random Sampling
95% Confidence Intervals $p = .2$
Figure 2: Simple Random Sampling
95% Confidence Intervals  n = 500
Figure 3: Simple Random Sampling
95% Confidence Intervals \( n = 100 \)
Figure 4: Repeated Simple Random Sampling
Variability Plots  P = .2

Proportion

Sample Size
Figure 5: Repeated Simple Random Sampling from Finite Population Variability Plots n = 500  P = .2
Figure 6: Repeated Weighted Sampling
Variability Plots 50% Sample Fraction  P = .2
Figure 7a: Population Distribution N = 100 for sampling proportional to degree
Figure 7b: Population Distribution N = 200
for sampling proportional to degree
Figure 7c: Population Distribution N = 400
for sampling proportional to degree
Figure 7d: Population Distribution N = 600
for sampling proportional to degree
Figure 7e: Population Distribution N = 800
for sampling proportional to degree
Figure 7f: Population Distribution $N = 1000$
for sampling proportional to degree
Figure 8

Weighted Sampling 95% CI Plots
100 Samples
50% Sample Fraction  P = .2

Proportion

0.30

0.25

0.20

0.15

0.10

0.05

0.00
Figure 9a: Cluster Sampling 95% CI Plots
100 Samples  25% Sample Fraction  P = .2
Cluster probabilities 0.10, 0.11, ..., 0.19, 0.21, 0.22, ..., 0.30
Figure 9b: Cluster Sampling 95% CI Plots
100 Samples  25% Sample Fraction  P = .2
Cluster probabilities 10 with .10, 10 with .30

Proportion vs. 95% Confidence Interval

Proportion
Figure 10: Sampling Method Comparison
Variability Plots N=2000 n = 500 P = .2

Type of Sampling
- simple
- weighted
- clustered1
- clustered2

Proportion

0.00 0.10 0.20 0.30

0.10 0.15 0.20 0.25 0.30

Type of Sampling