

Table D8-9 Evaluation of Sample Adequacy

Transect Number	Upland Big Sagebrush		Lowland Big Sagebrush	
	Total Vegetation Cover (percent)	Total Cover (percent)	Total Vegetation Cover (percent)	Total Cover (percent)
1	20	38	42	74
2	24	36	40	70
3	22	48	44	74
4	28	44	38	98
5	24	52	54	86
6	18	46	52	84
7	24	50	36	54
8	34	60	38	64
9	30	48	20	32
10	26	54	44	88
11	28	42	56	88
12	28	56	44	94
13	24	38	44	82
14	20	42	32	62
15	36	56	42	66
16	26	44	46	98
17	34	58	42	78
18	20	50	58	80
19	28	46	38	82
20	28	54	52	84
Mean (\bar{x})	26.1	48.1	43.1	76.9
Variance (s^2)	24.621	48.621	77.673	251.989
z^2	1.638	1.638	1.638	1.638
$2s^2z^2$	80.678	159.321	254.521	825.719
$(d\bar{x})^2$	6.812	23.136	18.576	59.136
Adequate Sample (n_{\min}^1)	11.8	6.9	13.7	14.0
Number Sampled	20	20	20	20

$$^1 n_{\min} = \frac{2(sz)^2}{(d\bar{x})^2}$$

Where n_{\min} = the number of samples needed to adequately sample the type
 s = sample standard deviation
 z = the z statistic (for this application $z = 1.28$)
 d = acceptable amount of inherent variability to be identified between the sample mean and the true population mean (for this application $d = 0.1$)
 \bar{x} = sample mean