

APPENDIX C**VOLUME GROUPS AND PRECISION LEVELS****Table C-1. Standard Sample Volume Groups and Precision Levels**

RURAL AREAS				
AADT Volume Group	Interstate	Other Principal Arterial	Minor Arterial	Major Collector
	(90-5)	(90-5)	(90-10)	(80-10)
01	0- 9,999	0- 4,999	0- 2,499	0- 2,499
02	10,000- 19,999	5,000- 9,999	2,500- 4,999	2,500- 4,999
03	20,000- 29,999	10,000- 14,999	5,000- 9,999	5,000- 9,999
04	30,000- 39,999	15,000- 19,999	10,000-19,999	10,000-19,999
05	40,000- 49,999	20,000- 29,999	20,000-29,999	20,000-29,999
06	50,000- 59,999	30,000- 39,999	30,000-39,999	30,000-39,999
07	60,000- 69,999	40,000- 49,999	40,000-49,999	40,000-49,999
08	70,000- 79,999	50,000- 59,999	50,000-59,999	50,000-59,999
09	80,000- 89,999	60,000- 69,999	60,000-69,999	60,000-69,999
10	90,000-104,999	70,000- 84,999	70,000-79,999	70,000-79,999
11	105,000-119,999	85,000- 99,999	80,000-89,999	80,000-89,999
12	120,000-134,999	100,000-114,999	90,000-99,999	90,000-99,999
13	> or = 135,000	> or = 115,000	> or = 100,000	> or = 100,000

Table C-2. Standard Sample Volume Groups and Precision Levels

SMALL URBAN AREAS					
AADT Volume Group	Interstate	Other Freeways and Expressways	Other Principal Arterial	Minor Arterial	Collector
	(90-5)	(90-5)	(90-5)	(90-10)	(80-10)
01	0- 9,999	0- 9,999	0- 4,999	0- 2,499	0- 999
02	10,000- 19,999	10,000- 19,999	5,000- 9,999	2,500- 4,999	1,000- 1,999
03	20,000- 29,999	20,000- 29,999	10,000-14,999	5,000- 9,999	2,000- 4,999
04	30,000- 39,999	30,000- 39,999	15,000-19,999	10,000-14,999	5,000- 9,999
05	40,000- 49,999	40,000- 49,999	20,000-24,999	15,000-19,999	10,000-14,999
06	50,000- 59,999	50,000- 59,999	25,000-29,999	20,000-24,999	15,000-19,999
07	60,000- 69,999	60,000- 69,999	30,000-34,999	25,000-29,999	20,000-24,999
08	70,000- 79,999	70,000- 79,999	35,000-39,999	30,000-34,999	25,000-29,999
09	80,000- 89,999	80,000- 89,999	40,000-44,999	35,000-39,999	30,000-34,999
10	90,000-104,999	90,000-104,999	45,000-54,999	40,000-49,999	35,000-44,999
11	105,000-119,999	105,000-119,999	55,000-64,999	50,000-59,999	45,000-54,999
12	120,000-134,999	120,000-134,999	65,000-74,999	60,000-69,999	55,000-64,999
13	> or = 135,000	> or = 135,000	> or = 75,000	> or = 70,000	> or = 65,000

Table C-3. Standard Sample Volume Groups and Precision Levels

For URBANIZED AREAS <200,000 Population that are NOT in NAAQS Nonattainment Areas					
AADT Volume Group	Interstate	Other Freeways and Expressways	Other Principal Arterial	Minor Arterial	Collector
	(80-10) ¹ (90-5) ²	(80-10) ¹ (90-5) ²	(80-10) ¹ (90-5) ²	Varies ³ (90-10) ²	Varies ³ (80-10) ²
01	0- 24,999	0- 24,999	0- 2,499	0- 2,499	0- 999
02	25,000- 49,999	25,000- 49,999	2,500- 4,999	2,500- 4,999	1,000- 1,999
03	50,000- 74,999	50,000- 74,999	5,000- 9,999	5,000- 9,999	2,000- 4,999
04	75,000- 99,999	75,000- 99,999	10,000-14,999	10,000-14,999	5,000- 9,999
05	100,000-124,999	100,000-124,999	15,000-19,999	15,000-19,999	10,000-14,999
06	125,000-149,999	125,000-149,999	20,000-24,999	20,000-24,999	15,000-24,999
07	150,000-174,999	150,000-174,999	25,000-34,999	25,000-34,999	25,000-34,999
08	175,000-199,999	175,000-199,999	35,000-44,999	35,000-44,999	35,000-44,999
09	200,000-224,999	200,000-224,999	45,000-54,999	45,000-54,999	45,000-54,999
10	225,000-249,999	225,000-249,999	55,000-69,999	55,000-69,999	55,000-69,999
11	250,000-274,999	250,000-274,999	70,000-84,999	70,000-84,999	70,000-84,999
12	275,000-299,999	275,000-299,999	85,000-99,999	85,000-99,999	85,000-99,999
13	> or = 300,000	> or = 300,000	> or = 100,000	> or = 100,000	> or = 100,000

1 ? Precision levels for **individual** urbanized areas.

2 ? Precision levels for **collective** urbanized areas.

3 ? For **individual** urbanized areas, use (70-15) precision level for States with 3 or more individual urbanized areas. Use (80-10) precision level for States with less than 3 individual urbanized areas.

Table C-4. Standard Sample Volume Groups and Precision Levels

For URBANIZED AREAS \geq200,000 Population and Smaller Urbanized Areas that ARE in NAAQS Nonattainment Areas					
AADT Volume Group	Interstate	Other Freeways and Expressways	Other Principal Arterial	Minor Arterial	Collector
	(90-10)	(90-10)	(90-10)	(90-10)	(80-10)
01	0- 24,999	0- 24,999	0- 2,499	0- 2,499	0- 999
02	25,000- 49,999	25,000- 49,999	2,500- 4,999	2,500- 4,999	1,000- 1,999
03	50,000- 74,999	50,000- 74,999	5,000- 9,999	5,000- 9,999	2,000- 4,999
04	75,000- 99,999	75,000- 99,999	10,000-14,999	10,000-14,999	5,000- 9,999
05	100,000-124,999	100,000-124,999	15,000-19,999	15,000-19,999	10,000-14,999
06	125,000-149,999	125,000-149,999	20,000-24,999	20,000-24,999	15,000-24,999
07	150,000-174,999	150,000-174,999	25,000-34,999	25,000-34,999	25,000-34,999
08	175,000-199,999	175,000-199,999	35,000-44,999	35,000-44,999	35,000-44,999
09	200,000-224,999	200,000-224,999	45,000-54,999	45,000-54,999	45,000-54,999
10	225,000-249,999	225,000-249,999	55,000-69,999	55,000-69,999	55,000-69,999
11	250,000-274,999	250,000-274,999	70,000-84,999	70,000-84,999	70,000-84,999
12	275,000-299,999	275,000-299,999	85,000-99,999	85,000-99,999	85,000-99,999
13	> or = 300,000	> or = 300,000	> or = 100,000	> or = 100,000	> or = 100,000

Table C-5. Donut Area Sample Volume Groups and Precision Levels

For DONUT AREAS of NAAQS Nonattainment Areas (Small Urban and Rural Systems, Combined)		
AADT Volume Group	Minor Arterial	Major Collector, Collector
	(90-10)	(90-10)
1	0- 2,499	0- 2,499
2	2,500- 4,999	2,500- 4,999
3	5,000- 9,999	5,000- 9,999
4	10,000-14,999	10,000-14,999
5	> or = 15,000	> or = 15,000