

Scale	Scale Number (SN)	Representative Fraction (RF)	Scale Number Area (SNA)	Representative Fraction - Area (RFA)	Ground Distance = 1cm map	Maximum Location Accuracy (MLA) Manual (0.25mm)	MLA Auto (0.10mm)	Ground area = 1cm² map area				Minimum Legible Area (MLA) Cornell Definition = 0.4cm²				Minimum Legible Area (MLA) Vink Definition = 0.25cm²				Maximum number of field observations (1 per map cm²)	Minimum number of field observations (1 per 4 map cm²)	
	m	g	m	m	m	m	m	m	ha	km²	ha	km²	per km²	m	ha	km²	per km²	ha per	per km²	ha per	per km²	
1:2 500	2,500	4.0000E-04	6.2500E+06	1.6000E-07	25	0.625	0.250	625	0.0625	0.00	250	0.0250	0.00	4000.00	625	0.02	0.00	6400.00	0.06	1600.00	0.25	400.00
1:4 000	4,000	2.5000E-04	1.6000E+07	6.2500E-08	40	1.000	0.400	1,600	0.1600	0.00	640	0.0640	0.00	1562.50	400	0.04	0.00	2500.00	0.16	625.00	0.64	156.25
1:5 000	5,000	2.0000E-04	2.5000E+07	4.0000E-08	50	1.250	0.500	2,500	0.2500	0.00	1,000	0.1000	0.00	1000.00	625	0.06	0.00	1600.00	0.25	400.00	1.00	100.00
1:7 500	7,500	1.3333E-04	5.6250E+07	1.7778E-08	75	1.875	0.750	5,625	0.5625	0.01	2,250	0.2250	0.00	444.44	1,406	0.14	0.00	711.11	0.56	177.78	2.25	44.44
1:10 000	10,000	1.0000E-04	1.0000E+08	1.0000E-08	100	2.500	1.000	10,000	1.0000	0.01	4,000	0.4000	0.00	250.00	2,500	0.25	0.00	400.00	1.00	100.00	4.00	25.00
1:12 000	12,000	8.3333E-05	1.4400E+08	6.9444E-09	120	3.000	1.200	14,400	1.4400	0.01	5,760	0.5760	0.01	173.61	3,600	0.36	0.00	277.78	1.44	69.44	5.76	17.36
1:12 500	12,500	8.0000E-05	1.5625E+08	6.4000E-09	125	3.125	1.250	15,625	1.5625	0.02	6,250	0.6250	0.01	160.00	3,906	0.39	0.00	256.00	1.56	64.00	6.25	16.00
1:15 000	15,000	6.6667E-05	2.2500E+08	4.4444E-09	150	3.750	1.500	22,500	2.2500	0.02	9,000	0.9000	0.01	111.11	5,625	0.56	0.01	177.78	2.25	44.44	9.00	11.11
1:20 000	20,000	5.0000E-05	4.0000E+08	2.5000E-09	200	5.000	2.000	40,000	4.0000	0.04	16,000	1.6000	0.02	62.50	10,000	1.00	0.01	100.00	4.00	25.00	16.00	6.25
1:24 000	24,000	4.1667E-05	5.7600E+08	1.7361E-09	240	6.000	2.400	57,600	5.7600	0.06	23,040	2.3040	0.02	43.40	14,400	1.44	0.01	69.44	5.76	17.36	23.04	4.34
1:25 000	25,000	4.0000E-05	6.2500E+08	1.6000E-09	250	6.250	2.500	62,500	6.2500	0.06	25,000	2.5000	0.03	40.00	15,625	1.56	0.02	64.00	6.25	16.00	25.00	4.00
1:30 000	30,000	3.3333E-05	9.0000E+08	1.1111E-09	300	7.500	3.000	90,000	9.0000	0.09	36,000	3.6000	0.04	27.78	22,500	2.25	0.02	44.44	9.00	11.11	36.00	2.78
1:40 000	40,000	2.5000E-05	1.6000E+09	6.2500E-10	400	10.000	4.000	160,000	16.0000	0.16	64,000	6.4000	0.06	15.63	40,000	4.00	0.04	25.00	16.00	6.25	64.00	1.56
1:50 000	50,000	2.0000E-05	2.5000E+09	4.0000E-10	500	12.500	5.000	250,000	25.0000	0.25	100,000	10.0000	0.10	10.00	62,500	6.25	0.06	16.00	25.00	4.00	100.00	1.00
1:60 000	60,000	1.6667E-05	3.6000E+09	2.7778E-10	600	15.000	6.000	360,000	36.0000	0.36	144,000	14.4000	0.14	6.94	90,000	9.00	0.09	11.11	36.00	2.78	144.00	0.69
1:62 500	62,500	1.6000E-05	3.9063E+09	2.5600E-10	625	15.625	6.250	390,625	39.0625	0.39	156,250	15.6250	0.16	6.40	97,656	9.77	0.10	10.24	39.06	2.56	156.25	0.64
1:100 000	100,000	1.0000E-05	1.0000E+10	1.0000E-10	1000	25.000	10.000	1,000,000	100.0000	1.00	400,000	40.0000	0.40	2.50	250,000	25.00	0.25	4.00	100.00	1.00	400.00	0.25
1:125 000	125,000	8.0000E-06	1.5625E+10	6.4000E-11	1250	31.250	12.500	1,562,500	156.25	1.56	625,000	62.50	0.63	1.60	390,625	39.06	0.39	2.56	156.25	0.64	625.00	0.16
1:150 000	150,000	6.6667E-06	2.2500E+10	4.4444E-11	1,500	37.500	15.000	2,250,000	225	2.25	900,000	90	0.90	1.11	562,500	56.25	0.56	1.78	225	0.44	900	0.11
1:200 000	200,000	5.0000E-06	4.0000E+10	2.5000E-11	2,000	50.000	20.000	4,000,000	400	4.00	1,600,000	160	1.60	0.63	1,000,000	100.00	1.00	1.00	400	0.25	1,600	0.06
1:250 000	250,000	4.0000E-06	6.2500E+10	1.6000E-11	2,500	62.500	25.000	6,250,000	625	6.25	2,500,000	250	2.50	0.40	1,562,500	156.25	1.56	0.64	625	0.16	2,500	0.04
1:300 000	300,000	3.3333E-06	9.0000E+10	1.1111E-11	3,000	75.000	30.000	9,000,000	900	9.00	3,600,000	360	3.60	0.28	2,250,000	225.00	2.25	0.44	900	0.11	3,600	0.03
1:500 000	500,000	2.0000E-06	2.5000E+11	4.0000E-12	5,000	125.000	50.000	25,000,000	2,500	25.00	10,000,000	1,000	10.00	0.10	6,250,000	625.00	6.25	0.16	2,500	0.04	10,000	0.01
1:1'000 000	1,000,000	1.0000E-06	1.0000E+12	1.0000E-12	10,000	250.000	100.000	100,000,000	10,000	100.00	40,000,000	4,000	40.00	0.03	25,000,000	2,500.00	25.00	0.04	10,000	0.01	40,000	0.00