

Table B.4 Horizontal Accuracy/Quality Examples for High Accuracy Digital Planimetric Data

ASPRS Edition 2, Version 2 (2024)			Equivalent to Map Scale in		Equivalent to Map Scale in NMAS
Horizontal Accuracy Class	RMSE _H (cm)	Approximate GSD of Source Imagery (cm)	ASPRS 1990 Class 1	ASPRS 1990 Class 2	
0.63	0.63	0.31 to 0.63	1:25	1:12.5	1:16
1.25	1.25	0.63 to 1.25	1:50	1:25	1:32
2.5	2.5	1.25 to 2.5	1:100	1:50	1:63
5.0	5.0	2.5 to 5.0	1:200	1:100	1:127
7.5	7.5	3.8 to 7.5	1:300	1:150	1:190
10.0	10.0	5.0 to 10.0	1:400	1:200	1:253
12.5	12.5	6.3 to 12.5	1:500	1:250	1:317
15.0	15.0	7.5 to 15.0	1:600	1:300	1:380
17.5	17.5	8.8 to 17.5	1:700	1:350	1:444
20.0	20.0	10.0 to 20.0	1:800	1:400	1:507
22.5	22.5	11.3 to 22.5	1:900	1:450	1:570
25.0	25.0	12.5 to 25.0	1:1000	1:500	1:634
27.5	27.5	13.8 to 27.5	1:1100	1:550	1:697
30.0	30.0	15.0 to 30.0	1:1200	1:600	1:760
45.0	45.0	22.5 to 45.0	1:1800	1:900	1:1141
60.0	60.0	30.0 to 60.0	1:2400	1:1200	1:1521
75.0	75.0	37.5 to 75.0	1:3000	1:1500	1:1901
100.0	100.0	50.0 to 100.0	1:4000	1:2000	1:2535
150.0	150.0	75.0 to 150.0	1:6000	1:3000	1:3802
200.0	200.0	100.0 to 200.0	1:8000	1:4000	1:5069
250.0	250.0	125.0 to 250.0	1:10000	1:5000	1:6337
300.0	300.0	150.0 to 300.0	1:12000	1:6000	1:7604
500.0	500.0	250.0 to 500.0	1:20000	1:10000	1:21122
1000.0	1000.0	500.0 to 1000.0	1:40000	1:20000	1:42244