

C-4.2 Summary Table of Supplemental, Non-USGS LiDAR Base Specification version 2.1, Density Testing Methodology Results

Test Name	Use Overlap Bit Flag Points	Raster Cell Size (in meters)	Minimum Point Count Requirement for Pass (green cells)	Percent of Passing Cells	Percent of Failing Cells
Grid Cell Size Based on Nyquist Sampling Criteria (2 x Required NPS) Including Overlap Bit Flagged Points	Yes	2 x 0.71 = 1.42	1	0.00	100.00
Grid Cell Size Based on Nyquist Sampling Criteria (2 x Required NPS) Excluding Overlap Bit Flagged Points	No	2 x 0.71 = 1.42	1	0.00	100.00
Grid Based Test: Grid Cell = 1m x 1m, Required PPSM Tested Including Overlap Bit Flagged Points	Yes	1	1 x 2 = 2	0.00	100.00
Grid Based Test: Grid Cell = 10m x 10m, Required PPSM Tested on Scaled Up Point Count Including Overlap Bit Flagged Points	Yes	10	100 x 2 = 200	0.00	100.00
Grid Based Test: Grid Cell = 100m x 100m, Required PPSM Tested on Scaled Up Point Count Including Overlap Bit Flagged Points	Yes	100	10,000 x 2 = 20,000	0.00	100.00
Grid Based Test: Grid Cell = 1,000m x 1,000m, Required PPSM Tested on Scaled Up Point Count Including Overlap Bit Flagged Points	Yes	1000	1,000,000 x 2 = 2,000,000	0.00	100.00
Grid Based Test: Grid Cell = 1m x 1m, Required PPSM Tested Excluding Overlap Bit Flagged Points	No	1	1 x 2 = 2	0.00	100.00
Grid Based Test: Grid Cell = 10m x 10m, Required PPSM Tested on Scaled Up Point Count Excluding Overlap Bit Flagged Points	No	10	100 x 2 = 200	0.00	100.00
Grid Based Test: Grid Cell = 100m x 100m, Required PPSM Tested on Scaled Up Point Count Excluding Overlap Bit Flagged Points	No	100	10,000 x 2 = 20,000	0.00	100.00
Grid Based Test: Grid Cell = 1,000m x 1,000m, Required PPSM Tested on Scaled Up Point Count Excluding Overlap Bit Flagged Points	No	1000	1,000,000 x 2 = 2,000,000	0.00	100.00