

C-3 Report on Intensity Values

The USGS Lidar Base Specification Version 2.1 states: "Intensity values are required for each multiple discrete return. The intensity values recorded in the LAS files shall be normalized to 16 bit, as required by the LAS Specification version 1.4-R13 (ASPRS, 2011). Intensity normalization should be strictly linear. Common image stretches (minimum-maximum, standard deviations, percent clip, histogram, and so forth) are expressly forbidden."

The purpose of this section is to report on the presence and quantities of lidar intensity in the LAS data.

[Data Source - D:\00_San_Miguel\Client_LAS_Swaths](#)

File	Minimum	Maximum	Mean	Median	Mode
CS_06001.las	16	65,520	5,099	5,712	7,008
CS_06002.las	32	65,520	6,019	6,624	7,296
CS_06003.las	32	65,520	6,205	6,720	7,168
CS_06004.las	32	65,520	6,157	6,720	7,136
CS_06005.las	32	65,520	5,967	6,528	6,800
CS_06038.las	32	43,552	3,976	3,088	624
CS_06039.las	16	65,520	4,665	4,128	512
CS_06040.las	16	41,760	5,522	6,944	8,080
CS_06041.las	16	17,040	5,500	6,960	8,352
CS_06042.las	16	65,520	5,829	7,408	8,032
CS_06043.las	16	65,520	4,745	4,208	512
CS_06044.las	16	65,520	3,992	2,816	512
CS_06045.las	16	65,520	3,774	2,576	512
CS_06062.las	16	65,520	4,739	4,912	608
CS_06063.las	16	65,520	5,259	5,776	720
CS_06064.las	16	65,520	5,603	6,304	8,016
CS_06065.las	16	65,520	5,204	5,680	736
CS_06066.las	16	65,520	5,260	5,664	736
CS_06067.las	16	65,520	4,963	4,880	720
CS_06068.las	16	65,520	4,549	4,032	704
CS_06071.las	16	65,520	4,391	3,728	720
CS_06072.las	16	65,520	4,023	3,040	736
CS_06073.las	16	65,520	3,967	2,992	720
CS_06074.las	16	65,520	3,924	2,992	720
CS_06075.las	16	65,520	3,906	3,008	752
CS_06076.las	16	65,520	4,317	3,504	736
CS_06077.las	16	65,520	4,244	3,504	720

C-3 Report on Intensity Values - continued

File	Minimum	Maximum	Mean	Median	Mode
CS_06078.las	16	65,520	4,149	3,360	736
CS_06081.las	144	55,984	5,629	5,760	6,656
CS_06082.las	80	65,520	5,767	5,952	7,824
CS_06083.las	32	65,520	5,331	5,376	784
CS_06084.las	64	65,520	5,099	4,976	976
CS_06085.las	32	65,520	4,829	4,784	800
CS_06086.las	32	65,520	4,724	4,528	784
CS_06087.las	32	65,520	4,699	4,448	1,008
CS_06088.las	32	65,520	4,699	4,432	768
CS_06089.las	32	65,520	4,347	3,952	768
CS_06090.las	32	65,520	3,837	3,248	768
CS_06091.las	32	65,520	3,542	2,528	736
CS_06092.las	32	65,520	3,463	2,400	752
CS_06093.las	32	65,520	3,448	2,480	768
CS_06094.las	16	65,520	3,693	2,736	768
CS_06096.las	32	65,520	3,579	2,832	768
CS_06097.las	16	65,520	3,573	2,800	768
CS_06098.las	16	65,520	3,443	2,480	768
CS_06099.las	16	65,520	3,408	2,416	752
CS_06100.las	16	65,520	3,444	2,320	768
CS_06101.las	16	65,520	3,614	2,528	752
CS_06102.las	16	65,520	3,792	2,832	768
CS_06103.las	16	65,520	4,138	3,296	768
CS_06104.las	16	65,520	4,299	3,536	752
CS_06105.las	16	65,520	4,460	3,712	720
CS_06106.las	16	65,520	4,727	4,192	880
CS_06107.las	16	65,520	4,820	4,320	736
CS_06108.las	16	65,520	4,491	3,680	736
CS_06109.las	16	65,520	4,266	3,328	736
CS_06117.las	32	65,520	3,959	3,120	736
CS_06118.las	32	65,520	4,339	3,664	1,008
CS_06119.las	16	65,520	4,897	4,768	1,024
CS_06120.las	32	65,520	5,126	5,312	992

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File	Minimum	Maximum	Mean	Median	Mode
CS_06121.las	16	65,520	4,852	4,432	896
CS_06122.las	16	65,520	4,482	3,664	992
CS_06123.las	16	65,520	4,339	3,456	752
CS_06125.las	16	65,520	4,092	3,264	512
CS_06126.las	16	65,520	5,514	7,024	400
CS_06127.las	32	65,520	6,157	7,616	8,192
CS_06128.las	16	65,520	6,477	7,728	8,176
CS_06129.las	32	64,320	6,187	7,472	7,968
CS_06130.las	32	65,520	6,089	7,392	8,336
CS_06131.las	16	65,520	5,080	5,248	720
CS_06132.las	16	65,520	4,476	3,504	512
CS_06133.las	16	65,520	5,029	5,104	512
CS_06135.las	16	65,520	5,514	6,880	7,920
CS_06136.las	16	65,520	5,669	6,992	8,176
CS_06137.las	16	65,520	5,510	6,608	8,208
CS_06138.las	16	65,520	5,042	4,992	592
CS_06139.las	16	65,520	4,931	4,560	608
CS_06140.las	16	65,520	4,955	4,336	592
CS_06141.las	16	65,520	4,584	3,840	736
CS_06142.las	16	65,520	4,434	3,600	592
CS_06143.las	16	65,520	4,204	3,440	608
Overall Statistics	16	65,520	4,437	3,792	736

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The purpose of this section is to show a frequency distribution chart of intensities throughout all of the lidar files.

[Data Source - D:\00_San_Miguel\Client_LAS_Swaths](#)

