

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_Cherry\Swaths_LAS](#)

File	Minimum	Maximum	Mean	Median	Mode
CS_00026.las	160	65,520	6,312	6,352	6,272
CS_00028.las	160	65,520	6,372	6,368	6,416
CS_00029.las	48	65,520	6,818	6,848	6,768
CS_00030.las	48	65,520	6,900	6,912	6,896
CS_00031.las	288	19,616	5,182	5,344	5,424
CS_00032.las	240	65,520	5,546	5,600	5,600
CS_00033.las	400	21,200	5,564	5,584	5,568
CS_00034.las	384	11,472	6,056	6,240	6,432
CS_00035.las	288	65,520	5,202	5,280	5,216
CS_00036.las	368	14,672	5,464	5,616	5,664
CS_00037.las	80	65,520	5,773	5,904	5,936
CS_00038.las	304	65,520	5,573	5,584	5,520
CS_00039.las	512	10,304	5,611	5,664	5,680
CS_00040.las	208	65,520	5,516	5,600	5,648
CS_00041.las	336	65,520	5,896	5,952	5,968
CS_00043.las	48	65,520	5,620	5,696	5,680
CS_00044.las	128	65,520	5,586	5,696	5,696
CS_00045.las	208	65,520	5,824	5,968	6,080
CS_00046.las	288	65,520	5,604	5,728	5,744
CS_00047.las	208	65,520	6,021	6,048	5,968
CS_00048.las	240	65,520	5,571	6,160	6,400
CS_00049.las	368	9,872	5,356	5,504	5,552
CS_00051.las	160	65,520	6,287	6,368	6,432
CS_00053.las	80	65,520	6,455	6,528	6,496
CS_00054.las	160	65,520	6,367	6,544	6,640
CS_00055.las	208	65,520	5,941	6,592	7,376
CS_00056.las	480	12,496	7,425	7,488	7,296

C-3 Report on Intensity Values - continued

File	Minimum	Maximum	Mean	Median	Mode
CS_00057.las	208	65,520	6,100	6,256	6,176
CS_00058.las	80	65,520	6,350	6,496	6,480
CS_00059.las	128	65,520	6,299	6,448	6,464
CS_00060.las	48	65,520	6,223	6,336	6,400
CS_00061.las	160	65,520	6,163	6,320	6,400
CS_00062.las	208	65,520	6,059	6,272	6,432
CS_00063.las	160	65,520	6,109	6,320	6,384
CS_00064.las	48	65,520	6,093	6,304	6,416
CS_00065.las	112	65,520	5,963	6,192	6,240
CS_00067.las	112	65,520	5,724	5,888	5,936
CS_00068.las	48	65,520	5,444	5,552	5,568
CS_00069.las	128	65,520	5,390	5,472	5,424
CS_00070.las	48	65,520	5,340	5,536	5,584
CS_00071.las	80	65,520	6,455	6,944	7,008
CS_00073.las	48	65,520	6,695	7,264	7,424
CS_00075.las	48	65,520	6,565	7,376	7,648
CS_00076.las	48	65,520	6,441	7,296	7,664
CS_00077.las	80	65,520	6,547	7,280	7,440
CS_00078.las	48	65,520	6,973	7,392	7,472
CS_00079.las	32	65,520	7,161	7,424	7,424
CS_00080.las	32	65,520	6,766	7,184	7,296
CS_00081.las	48	65,520	6,673	7,200	7,216
CS_00082.las	32	65,520	6,943	7,376	7,408
CS_00083.las	48	65,520	6,916	7,376	7,424
CS_00084.las	160	65,520	6,586	7,152	7,280
CS_00086.las	160	65,520	6,253	6,784	6,928
CS_00088.las	160	65,520	6,305	6,816	7,008
CS_00090.las	48	65,520	6,504	6,800	6,912
CS_00091.las	48	65,520	6,499	6,736	6,784
CS_00092.las	48	65,520	6,383	6,656	6,784
CS_00093.las	48	65,520	5,976	6,448	6,704
CS_00094.las	160	65,520	6,014	6,480	6,720
CS_00095.las	160	65,520	6,260	6,528	6,640

C-3 Report on Intensity Values - continued

File	Minimum	Maximum	Mean	Median	Mode
CS_00098.las	32	65,520	6,509	6,800	6,816
CS_00100.las	32	65,520	6,556	6,848	6,928
CS_00101.las	80	65,520	6,910	7,104	7,088
CS_00102.las	48	65,520	6,793	6,944	6,960
CS_00103.las	160	65,520	6,857	6,960	6,976
CS_00104.las	128	65,520	6,851	6,928	6,944
CS_00105.las	160	65,520	6,968	7,024	6,992
CS_00106.las	160	65,520	6,975	7,040	6,944
CS_00107.las	160	65,520	6,677	6,832	6,896
CS_00109.las	80	65,520	6,708	6,864	6,912
CS_00110.las	48	65,520	6,899	6,992	6,976
CS_00111.las	48	65,520	6,816	6,992	7,024
CS_00112.las	160	65,520	7,001	7,040	6,928
CS_00113.las	160	65,520	6,883	7,024	7,104
CS_00114.las	48	65,520	6,840	6,944	6,976
CS_00115.las	160	65,520	6,813	6,912	6,928
CS_00117.las	304	39,232	6,455	6,560	6,544
CS_00119.las	160	65,520	6,627	6,672	6,768
CS_00120.las	320	65,520	6,545	6,624	6,624
CS_00122.las	48	65,520	6,866	6,976	6,992
CS_00123.las	160	65,520	6,864	6,944	6,928
CS_00124.las	112	65,520	6,795	6,880	6,944
CS_00125.las	160	65,520	6,675	6,816	6,896
CS_00126.las	160	65,520	6,678	6,800	6,880
CS_00127.las	160	65,520	6,954	7,024	6,992
CS_00128.las	192	65,520	7,053	7,104	7,184
CS_00129.las	48	65,520	6,992	7,088	7,168
CS_00130.las	240	65,520	7,088	7,120	7,184
CS_00131.las	32	65,520	6,951	6,960	6,944
CS_00133.las	192	65,520	6,638	6,704	6,752
CS_00134.las	48	65,520	6,609	6,640	6,688
CS_00135.las	48	65,520	6,509	6,576	6,640
CS_00136.las	160	65,520	6,425	6,480	6,528

C-3 Report on Intensity Values - continued

File	Minimum	Maximum	Mean	Median	Mode
CS_00137.las	256	65,520	6,400	6,464	6,512
CS_00138.las	160	65,520	6,361	6,432	6,496
CS_00139.las	128	65,520	6,334	6,464	6,496
CS_00140.las	192	65,520	6,543	6,592	6,704
CS_00142.las	224	65,520	6,664	6,688	6,704
CS_00143.las	160	65,520	6,732	6,752	6,736
CS_00144.las	160	65,520	6,785	6,816	6,784
CS_00145.las	208	65,520	6,758	6,864	6,928
CS_00146.las	32	65,520	6,654	6,784	6,848
CS_00147.las	160	65,520	6,642	6,736	6,784
CS_00148.las	48	65,520	6,936	6,960	6,944
CS_00149.las	160	65,520	6,963	7,024	6,928
CS_00150.las	160	65,520	6,512	6,624	6,720
CS_00151.las	128	65,520	7,085	7,120	7,024
Overall Statistics	32	65,520	6,502	6,656	6,720

C-3 Report on Intensity Values - continued

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

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