

## 2.7 Report on Swath Size and Segmentation (Swath Data)

The USGS LiDAR Base Specification Version 1.0 states: "Swath files will be 2 gigabytes (GB) in size or less. Long swaths (those which result in a LAS file larger than 2 GB) will be split into segments no greater than 2 GB each.

- (1) Each sub-swath will retain the original File Source ID of the original complete swath.
- (2) Points within each sub-swath will retain the Point Source ID of the original complete swath.
- (3) Each sub-swath file will be named identically to the original complete swath, with the addition of an ordered alphabetic suffix to the name ("-a", "-b" ... "-n"). The order of the named sub-swaths shall be consistent with the collection order of the points ("-a" will be the chronological beginning of the swath; "-n" will be the chronological end of the swath).
- (4) Point families shall be maintained intact within each sub-swath.
- (5) Sub-swaths should be broken at the edge of the scan line.
- (6) Other swath segmentation approaches may be acceptable, with prior approval."

The purpose of this section is to show the files sizes of the LAS files for the LiDAR swath data.

### [Boresighted Files - E:\Pope\\_Hardin\Swath LAS](#)

File	File Size (bytes)	KB	MB	GB
00001.las	151,902,651	148,342	144.87	0.14
00002.las	313,236,561	305,895	298.73	0.29
00003.las	745,229,983	727,763	710.71	0.69
00004.las	1,000,916,485	977,457	954.55	0.93
00005.las	1,212,974,717	1,184,545	1156.78	1.13
00006.las	1,057,707,775	1,032,917	1008.71	0.99
00007.las	1,311,920,435	1,281,172	1251.14	1.22
00008.las	1,289,268,477	1,259,051	1229.54	1.20
00009.las	1,681,512,229	1,642,101	1603.62	1.57
00010.las	1,849,618,565	1,806,268	1763.93	1.72
00011_Split1.las	2,056,371,577	2,008,175	1961.11	1.92
00011_Split2.las	823,755,107	804,448	785.59	0.77
00012_Split1.las	2,058,132,291	2,009,894	1962.79	1.92
00012_Split2.las	821,225,927	801,978	783.18	0.76
00013_Split1.las	2,062,901,287	2,014,552	1967.34	1.92
00013_Split2.las	1,426,388,521	1,392,957	1360.31	1.33
00014_Split1.las	2,061,901,033	2,013,575	1966.38	1.92
00014_Split2.las	995,670,477	972,334	949.55	0.93
00015_Split1.las	2,059,285,483	2,011,020	1963.89	1.92
00015_Split2.las	1,679,826,109	1,640,455	1602.01	1.56
00016_Split1.las	2,059,038,451	2,010,779	1963.65	1.92
00016_Split2.las	789,328,499	770,828	752.76	0.74
00017_Split1.las	2,063,374,389	2,015,014	1967.79	1.92
00017_Split2.las	596,079,207	582,108	568.47	0.56
00018_Split1.las	2,047,760,613	1,999,766	1952.90	1.91
00018_Split2.las	290,633,099	283,821	277.17	0.27
00019_Split1.las	2,047,120,003	1,999,140	1952.29	1.91
00019_Split2.las	584,525,293	570,825	557.45	0.54
00020_Split1.las	2,047,815,979	1,999,820	1952.95	1.91
00020_Split2.las	285,452,601	278,762	272.23	0.27
00021_Split1.las	2,047,648,753	1,999,656	1952.79	1.91
00021_Split2.las	426,591,917	416,593	406.83	0.40
00022_Split1.las	2,048,339,183	2,000,331	1953.45	1.91
00022_Split2.las	158,363,483	154,651	151.03	0.15

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File	File Size (bytes)	KB	MB	GB
00023_Split1.las	2,048,402,069	2,000,392	1953.51	1.91
00023_Split2.las	334,540,337	326,699	319.04	0.31
00024_Split1.las	2,048,328,185	2,000,320	1953.44	1.91
00024_Split2.las	44,312,325	43,273	42.26	0.04
00025_Split1.las	2,047,905,655	1,999,907	1953.04	1.91
00025_Split2.las	197,176,507	192,555	188.04	0.18
00026.las	1,936,732,713	1,891,340	1847.01	1.80
00027_Split1.las	2,048,221,119	2,000,215	1953.34	1.91
00027_Split2.las	41,137,303	40,173	39.23	0.04
00028.las	1,823,154,413	1,780,424	1738.70	1.70
00029.las	1,945,036,023	1,899,449	1854.93	1.81
00030.las	1,622,809,101	1,584,774	1547.63	1.51
00031.las	1,773,790,373	1,732,217	1691.62	1.65
00032.las	1,489,141,923	1,454,240	1420.16	1.39
00033.las	1,586,117,805	1,548,943	1512.64	1.48
00034.las	1,276,756,779	1,246,832	1217.61	1.19
00035.las	1,458,845,455	1,424,653	1391.26	1.36
00036.las	1,257,808,109	1,228,328	1199.54	1.17
00037.las	1,205,056,139	1,176,812	1149.23	1.12
00038.las	1,034,426,391	1,010,182	986.51	0.96
00039.las	1,057,350,245	1,032,568	1008.37	0.98
00040.las	917,395,169	895,893	874.90	0.85
00041.las	986,752,525	963,625	941.04	0.92
00042.las	789,377,229	770,876	752.81	0.74
00043.las	645,599,269	630,468	615.69	0.60
00044_Split1.las	2,048,059,721	2,000,058	1953.18	1.91
00044_Split2.las	133,768,959	130,633	127.57	0.12
00045.las	1,373,182,075	1,340,998	1309.57	1.28
00066.las	1,614,382,783	1,576,545	1539.60	1.50
00067_Split1.las	2,047,985,931	1,999,986	1953.11	1.91
00067_Split2.las	579,348,533	565,770	552.51	0.54
00068_Split1.las	2,048,144,415	2,000,141	1953.26	1.91
00068_Split2.las	1,069,616,311	1,044,547	1020.07	1.00
00069_Split1.las	2,048,037,537	2,000,036	1953.16	1.91
00069_Split2.las	1,418,590,307	1,385,342	1352.87	1.32
00070_Split1.las	2,048,114,241	2,000,111	1953.23	1.91
00070_Split2.las	1,205,144,173	1,176,898	1149.32	1.12
00071_Split1.las	2,052,302,787	2,004,201	1957.23	1.91
00071_Split2.las	1,916,721,005	1,871,797	1827.93	1.79
00072_Split1.las	2,053,325,225	2,005,200	1958.20	1.91
00072_Split2.las	2,015,044,761	1,967,817	1921.70	1.88
00073_Split1.las	2,052,836,425	2,004,723	1957.74	1.91
00073_Split2.las	2,048,107,003	2,000,104	1953.23	1.91
00073_Split3.las	528,909,405	516,513	504.41	0.49
00074_Split1.las	2,053,182,157	2,005,060	1958.07	1.91
00074_Split2.las	2,048,089,049	2,000,086	1953.21	1.91
00074_Split3.las	279,902,079	273,341	266.94	0.26

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File	File Size (bytes)	KB	MB	GB
00075_Split1.las	2,053,143,335	2,005,022	1958.03	1.91
00075_Split2.las	2,048,058,875	2,000,057	1953.18	1.91
00075_Split3.las	703,911,157	687,413	671.30	0.66
00076_Split1.las	2,053,783,663	2,005,648	1958.64	1.91
00076_Split2.las	2,048,047,783	2,000,046	1953.17	1.91
00076_Split3.las	429,906,291	419,830	409.99	0.40
00077_Split1.las	2,051,818,499	2,003,729	1956.77	1.91
00077_Split2.las	2,048,073,351	2,000,071	1953.19	1.91
00077_Split3.las	1,190,276,187	1,162,379	1135.14	1.11
00078_Split1.las	2,052,327,509	2,004,226	1957.25	1.91
00078_Split2.las	2,048,057,183	2,000,055	1953.18	1.91
00078_Split3.las	1,227,565,651	1,198,794	1170.70	1.14
00079_Split1.las	2,050,765,323	2,002,700	1955.76	1.91
00079_Split2.las	2,048,078,521	2,000,076	1953.20	1.91
00079_Split3.las	2,034,359,557	1,986,679	1940.12	1.89
00080_Split1.las	2,051,561,033	2,003,477	1956.52	1.91
00080_Split2.las	2,048,141,313	2,000,138	1953.26	1.91
00080_Split3.las	1,748,086,597	1,707,115	1667.11	1.63
00081_Split1.las	2,051,075,617	2,003,003	1956.06	1.91
00081_Split2.las	2,048,021,087	2,000,020	1953.15	1.91
00081_Split3.las	2,048,178,819	2,000,174	1953.30	1.91
00081_Split4.las	69,443,523	67,815	66.23	0.06
00082_Split1.las	2,051,502,095	2,003,420	1956.46	1.91
00082_Split2.las	2,048,087,451	2,000,085	1953.21	1.91
00082_Split3.las	1,589,210,261	1,551,963	1515.59	1.48
00083_Split1.las	2,051,042,529	2,002,971	1956.03	1.91
00083_Split2.las	2,048,103,243	2,000,100	1953.22	1.91
00083_Split3.las	2,020,074,027	1,972,728	1926.49	1.88
00084_Split1.las	2,051,488,653	2,003,406	1956.45	1.91
00084_Split2.las	2,048,163,967	2,000,160	1953.28	1.91
00084_Split3.las	1,704,289,975	1,664,345	1625.34	1.59
00085_Split1.las	2,050,775,005	2,002,709	1955.77	1.91
00085_Split2.las	2,048,042,801	2,000,041	1953.17	1.91
00085_Split3.las	2,048,253,925	2,000,247	1953.37	1.91
00085_Split4.las	150,125,217	146,606	143.17	0.14
00086_Split1.las	2,050,859,605	2,002,792	1955.85	1.91
00086_Split2.las	2,048,015,259	2,000,014	1953.14	1.91
00086_Split3.las	1,829,460,397	1,786,582	1744.71	1.70
00087_Split1.las	2,050,175,097	2,002,124	1955.20	1.91
00087_Split2.las	2,048,096,757	2,000,094	1953.22	1.91
00087_Split3.las	2,048,033,495	2,000,032	1953.16	1.91
00087_Split4.las	457,828,407	447,098	436.62	0.43
00088.las	1,727,988,093	1,687,488	1647.94	1.61
00129_Split1.las	2,050,750,001	2,002,685	1955.75	1.91
00129_Split2.las	2,047,994,861	1,999,994	1953.12	1.91
00129_Split3.las	2,032,666,049	1,985,025	1938.50	1.89
00130_Split1.las	2,050,126,593	2,002,076	1955.15	1.91

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File	File Size (bytes)	KB	MB	GB
00130_Split2.las	2,048,078,521	2,000,076	1953.20	1.91
00130_Split3.las	2,048,208,899	2,000,204	1953.32	1.91
00130_Split4.las	675,709,971	659,873	644.41	0.63
00131_Split1.las	2,050,715,315	2,002,651	1955.71	1.91
00131_Split2.las	2,047,949,271	1,999,950	1953.08	1.91
00131_Split3.las	1,875,746,513	1,831,783	1788.85	1.75
00132_Split1.las	2,047,986,119	1,999,986	1953.11	1.91
00132_Split2.las	2,049,540,691	2,001,504	1954.59	1.91
00132_Split3.las	2,048,232,587	2,000,227	1953.35	1.91
00132_Split4.las	593,669,227	579,755	566.17	0.55
00133_Split1.las	2,050,860,357	2,002,793	1955.85	1.91
00133_Split2.las	2,048,013,473	2,000,013	1953.14	1.91
00133_Split3.las	1,854,660,683	1,811,192	1768.74	1.73
00134_Split1.las	2,050,415,267	2,002,358	1955.43	1.91
00134_Split2.las	2,048,028,325	2,000,027	1953.15	1.91
00134_Split3.las	2,048,005,483	2,000,005	1953.13	1.91
00134_Split4.las	376,063,355	367,249	358.64	0.35
00135_Split1.las	2,051,234,195	2,003,158	1956.21	1.91
00135_Split2.las	2,048,080,401	2,000,078	1953.20	1.91
00135_Split3.las	1,648,175,385	1,609,546	1571.82	1.53
00136_Split1.las	2,050,835,917	2,002,769	1955.83	1.91
00136_Split2.las	2,048,111,139	2,000,108	1953.23	1.91
00136_Split3.las	2,048,180,981	2,000,176	1953.30	1.91
00136_Split4.las	137,775,803	134,546	131.39	0.13
00137_Split1.las	2,051,420,127	2,003,339	1956.39	1.91
00137_Split2.las	2,048,046,937	2,000,045	1953.17	1.91
00137_Split3.las	1,624,544,035	1,586,468	1549.29	1.51
00138_Split1.las	2,050,847,009	2,002,780	1955.84	1.91
00138_Split2.las	2,048,188,689	2,000,184	1953.30	1.91
00138_Split3.las	2,048,195,081	2,000,190	1953.31	1.91
00138_Split4.las	32,266,963	31,510	30.77	0.03
00139_Split1.las	2,051,365,983	2,003,287	1956.34	1.91
00139_Split2.las	2,048,094,877	2,000,092	1953.22	1.91
00139_Split3.las	1,632,191,063	1,593,936	1556.58	1.52
00140_Split1.las	2,050,838,455	2,002,771	1955.83	1.91
00140_Split2.las	2,048,081,435	2,000,079	1953.20	1.91
00140_Split3.las	2,048,095,065	2,000,092	1953.22	1.91
00140_Split4.las	219,840,513	214,688	209.66	0.20
00141_Split1.las	2,051,507,265	2,003,425	1956.47	1.91
00141_Split2.las	2,047,879,429	1,999,882	1953.01	1.91
00141_Split3.las	1,340,896,941	1,309,469	1278.78	1.25
00142_Split1.las	2,054,214,371	2,006,068	1959.05	1.91
00142_Split2.las	1,463,048,455	1,428,758	1395.27	1.36
00143.las	1,244,500,789	1,215,332	1186.85	1.16