

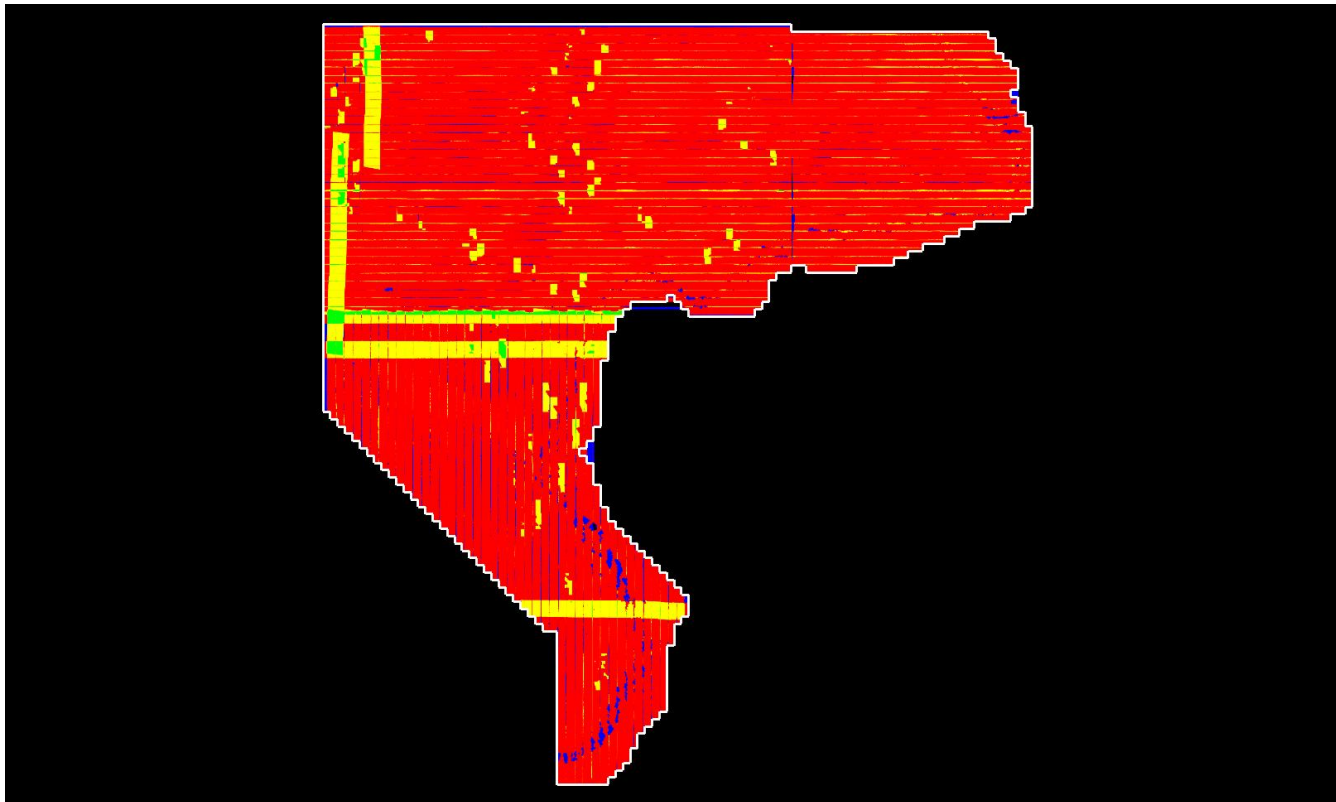
1.10.1 Report on Flight Line Overlap (Swath Data)

The USGS LiDAR Base Specification Version 1.0 requires: "Flightline overlap of 10 percent or greater is required to ensure there are no data gaps between the usable portions of the swaths. Collections in high relief terrain are expected to require greater overlap. Any data with gaps between the geometrically usable portions of the swaths will be rejected."

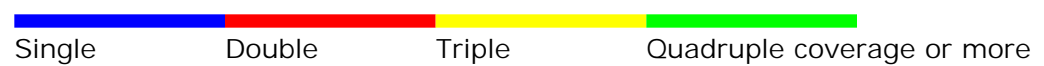
The purpose of this section is to show flight line overlap. Lack of flight line overlap would be displayed as black polygons or slivers between flight lines.

[Data Source - E:\Pope_Hardin\Swath_LAS](#)

[Result Path - E:\Pope_Hardin\QAQC2\1_10\Flightline_Coverage_Overlap.jp2](#)



White polygon is project boundary



1.10.2 Report on Flight Line Sidelap

The USGS LiDAR Base Specification Version 1.0 requires: "Flightline overlap of 10 percent or greater is required to ensure there are no data gaps between the usable portions of the swaths. Collections in high relief terrain are expected to require greater overlap. Any data with gaps between the geometrically usable portions of the swaths will be rejected."

The purpose of this section is to show flight line overlap. Lack of flight line overlap would be displayed as black polygons or slivers between flight lines.

[Data Source - E:\Pope_Hardin\Swath_LAS](#)

[Result Path - E:\Pope_Hardin\QAQC2\1_10\Flightline_Coverage_Overlap_Side.jp2](#)



White polygon is project boundary

1.10.2 Report on Flight Line Sidelap - Continued

Adjacent Flight Line 1	Adjacent Flight Line 2	Area 1	Area 2	Overlap Area	Sidelap 1 (%)	Sidelap 2 (%)
00001	00002	24544291.73	41297624.85	15229501.19	62	36.9
00002	00003	54697938.694	76129065.051	23122659.376	42.3	30.4
00003	00004	113427328.659	170610647.395	17498659.281	15.4	10.3
00004	00005	181019595.522	201934325.074	14249424.351	7.9	7.1
00005	00006	203978829.807	222755901.675	87696106.06	43	39.4
00006	00007	228713488.467	244351759.188	83211125.19	36.4	34.1
00007	00008	251675755.446	270766859.792	63265076.855	25.1	23.4
00008	00009	277386123.291	291561141.413	89983015.76	32.4	30.9
00009	00010	299173284.345	313129861.456	75209426.484	25.1	24
00010	00011_Split2	321561312.784	96957592.133	96256716.23	29.9	99.3
00011_Split1	00012_Split2	40267590.315	29103973.63	90488361.415	224.7	310.9
00011_Split1	00012_Split1	337619882.88	402790671.032	28706459.911	8.5	7.1
00011_Split2	00045	12289940.472	57423680.96	10143806.105	82.5	17.7
00012_Split1	00013_Split2	404238542.369	260113557.183	52488562.659	13	20.2
00012_Split2	00045	9139634.996	67648232.589	8058986.575	88.2	11.9
00013_Split1	00014_Split2	334072035.307	155398747.099	152897025.877	45.8	98.4
00013_Split1	00014_Split1	305644664.367	353636916.802	104148363.204	34.1	29.5
00014_Split1	00015_Split2	393278161.229	268263053.733	195422448.12	49.7	72.8
00015_Split1	00016_Split1	267424723.029	273773675.802	92565533.92	34.6	33.8
00015_Split1	00016_Split2	331190059.134	149152954.839	17474464.249	5.3	11.7
00015_Split2	00016_Split2	222741179.179	133264501.821	37216823.182	16.7	27.9
00016_Split1	00017_Split2	358584531.466	89605926.867	132191280.02	36.9	147.5
00017_Split1	00018_Split1	326661490.965	354764297.794	145614929.812	44.6	41
00017_Split1	00018_Split2	29322340.086	26875915.882	53164762.838	181.3	197.8
00018_Split1	00019_Split1	350962250.961	296764203.274	114801860.711	32.7	38.7
00019_Split1	00020_Split1	293573907.339	332451738.772	134111420.684	45.7	40.3
00020_Split1	00021_Split1	331429019.436	305761440.363	138190659.458	41.7	45.2
00021_Split1	00022_Split1	303715851.354	325984459.719	142610293.847	47	43.7
00022_Split1	00023_Split2	325940203.46	55307256.677	55362989.46	17	100.1
00022_Split2	00044_Split1	2717950.431	131906962.906	2665519.272	98.1	2
00023_Split1	00024_Split1	296749302.512	323884113.208	147948778.055	49.9	45.7
00024_Split1	00025_Split1	320464160.182	295677693.704	144834125.403	45.2	49
00025_Split1	00026	292490216.419	308873931.665	143032374.569	48.9	46.3
00026	00027_Split1	307626600.79	296137083.119	157605516.995	51.2	53.2

1.10.2 Report on Flight Line Sidelap - Continued

Adjacent Flight Line 1	Adjacent Flight Line 2	Area 1	Area 2	Overlap Area	Sidelap 1 (%)	Sidelap 2 (%)
00027_Split1	00028	294069418.462	289967662.962	136877346.742	46.5	47.2
00028	00029	289256019.766	279946121.92	150677263.441	52.1	53.8
00029	00030	274386309.302	269423437.07	127072333.65	46.3	47.2
00030	00031	266226159.39	260003003.982	140406061.253	52.7	54
00031	00032	256368265.441	248305235.02	118777278.371	46.3	47.8
00032	00033	246894268.773	238516629.959	129019739.147	52.3	54.1
00033	00034	236199387.872	225804886.089	109599729.271	46.4	48.5
00034	00035	225606772.556	215015819.837	116881446.715	51.8	54.4
00035	00036	209776065.038	205669276.516	97824605.098	46.6	47.6
00036	00037	203012719.678	193534023.95	107048611.531	52.7	55.3
00037	00038	190204518.103	182725294.921	87910867.561	46.2	48.1
00038	00039	182562660.663	175229455.943	96065042.68	52.6	54.8
00039	00040	172930058.757	161462811.797	77158129.529	44.6	47.8
00040	00041	160346311.789	149441957.653	81399178.653	50.8	54.5
00041	00042	145164451.626	138850242.638	67169564.36	46.3	48.4
00042	00043	135825703.085	98516617.079	72122433.432	53.1	73.2
00043	00088	42142219.056	54739451.719	29688360.472	70.4	54.2
00044_Split1	00044_Split2	173885513.111	10744058.924	1113389.561	0.6	10.4
00066	00067_Split1	376914575.825	384815631.434	187265791.234	49.7	48.7
00067_Split1	00068_Split1	323085201.001	320856238.242	176294669.777	54.6	54.9
00068_Split1	00069_Split1	293566548.025	293387368.508	133147042.038	45.4	45.4
00068_Split2	00069_Split2	226140088.519	247760123.191	117508293.395	52	47.4
00069_Split1	00070_Split1	293460631.109	291815216.517	155857543.732	53.1	53.4
00070_Split1	00071_Split1	262090646.183	262817643.628	125726890.144	48	47.8
00070_Split2	00071_Split2	245894519.32	258652597.235	121498393.795	49.4	47
00070_Split2	00072_Split2	244736735.76	264041437.295	3675730.616	1.5	1.4
00071_Split1	00072_Split1	248514217.538	248002970.663	133025083.376	53.5	53.6
00071_Split2	00072_Split2	318647151.245	329103791.16	180716349.783	56.7	54.9
00072_Split1	00073_Split1	194028480.112	190827823.628	90778731.287	46.8	47.6
00073_Split1	00074_Split1	190817222.749	194806289.228	103603959.98	54.3	53.2
00073_Split2	00074_Split2	294601219.816	294904354.905	161259199.755	54.7	54.7
00073_Split3	00074_Split3	76628255.259	70170696.037	36878069.789	48.1	52.6
00074_Split2	00075_Split2	277656846.747	277066992.685	135688442.656	48.9	49

1.10.2 Report on Flight Line Sidelap - Continued

Adjacent Flight Line 1	Adjacent Flight Line 2	Area 1	Area 2	Overlap Area	Sidelap 1 (%)	Sidelap 2 (%)
00074_Split3	00075_Split3	70373333.56	74946019.203	35328717.697	50.2	47.1
00075_Split2	00076_Split2	286544622.354	285481445.435	150560094.87	52.5	52.7
00075_Split3	00076_Split3	84250210.738	83969456.243	45803213.311	54.4	54.5
00076_Split2	00077_Split2	229741024.913	229899737.441	109775747.549	47.8	47.7
00077_Split2	00078_Split2	280243992.647	279791845.666	153135927.296	54.6	54.7
00077_Split3	00078_Split3	184462466.324	186682726.866	101092885.362	54.8	54.2
00078_Split2	00079_Split2	219433685.669	208875679.215	102580741.387	46.7	49.1
00079_Split1	00080_Split1	290030141.147	293617255.347	15828573.784	5.5	5.4
00079_Split1	00081_Split1	290002611.276	298998673.716	151017719.107	52.1	50.5
00079_Split2	00081_Split2	259851695.593	265367426.348	131186227.828	50.5	49.4
00079_Split3	00081_Split3	262343052.697	265104322.562	134002787.896	51.1	50.5
00079_Split3	00080_Split3	249605086.423	248189104.153	10265682.336	4.1	4.1
00080_Split1	00081_Split1	293584721.021	298834446.077	163283286.102	55.6	54.6
00080_Split2	00082_Split2	277902629.748	290517401.438	142442679.584	51.3	49
00080_Split3	00082_Split3	240749471.476	245925022.161	124259544.001	51.6	50.5
00082_Split2	00083_Split2	254164428.398	251758641.266	119852400.489	47.2	47.6
00082_Split3	00083_Split3	246026356.539	249617937.562	120179932.095	48.8	48.1
00083_Split1	00084_Split1	302801845.553	302923385.477	161028886.985	53.2	53.2
00083_Split1	00085_Split1	303165938.885	302002290.382	5314845.583	1.8	1.8
00083_Split2	00084_Split2	260912940.993	261103884.277	137044171.961	52.5	52.5
00083_Split3	00084_Split3	258752631.827	254190116.543	134830492.978	52.1	53
00084_Split2	00085_Split2	252137591.305	248884276.924	115869216.929	46	46.6
00084_Split3	00085_Split3	236206324.006	238154148.7	115646043.36	49	48.6
00085_Split1	00087_Split1	302020195.154	300084306.689	824929.807	0.3	0.3
00085_Split2	00086_Split2	266615654.37	265972616.174	137720772.923	51.7	51.8
00085_Split3	00086_Split3	254719436.43	251879285.708	134184455.904	52.7	53.3
00086_Split1	00129_Split1	302040651.25	301191487.399	3040989.939	1	1
00086_Split2	00087_Split2	238422892.934	238103637.529	111713247.832	46.9	46.9
00086_Split3	00087_Split3	215423404.759	214051718.86	100725304.905	46.8	47.1
00087_Split2	00129_Split2	238879771.724	241278943.586	125283920.868	52.4	51.9
00087_Split3	00129_Split3	232879547.52	238078213.363	122589039.136	52.6	51.5
00129_Split1	00130_Split1	301186718.711	289703295.688	138516487.135	46	47.8
00129_Split2	00130_Split2	224072237.743	223460324.445	103249463.159	46.1	46.2

1.10.2 Report on Flight Line Sidelap - Continued

Adjacent Flight Line 1	Adjacent Flight Line 2	Area 1	Area 2	Overlap Area	Sidelap 1 (%)	Sidelap 2 (%)
00129_Split3	00130_Split3	210286600.376	206894000.49	98620301.276	46.9	47.7
00130_Split1	00131_Split1	285937787.188	290143808.623	153863416.849	53.8	53
00130_Split2	00131_Split2	223495173.489	223190306.524	114950222.398	51.4	51.5
00130_Split3	00131_Split3	192269412.36	193430773.231	100496384.751	52.3	52
00130_Split4	00132_Split4	73227596.311	72982180.555	851825.098	1.2	1.2
00131_Split1	00132_Split1	283179477.6	281866855.371	135012915.179	47.7	47.9
00131_Split2	00132_Split2	222464961.663	222606938.715	106486185.94	47.9	47.8
00131_Split3	00132_Split3	202686056.297	203816272.589	98851691.091	48.8	48.5
00132_Split1	00133_Split1	281569660.823	282526401.332	151812297.314	53.9	53.7
00132_Split2	00133_Split2	214512545.677	214738708.619	111868914.986	52.2	52.1
00132_Split3	00133_Split3	200624019.456	200246982.591	105440028.541	52.6	52.7
00133_Split1	00134_Split1	282582174.43	286163999.14	134758379.292	47.7	47.1
00133_Split2	00134_Split2	228127905.55	228772361.843	108697668.537	47.6	47.5
00133_Split3	00134_Split3	223137139.563	222713369.111	107662635.27	48.2	48.3
00134_Split1	00136_Split1	286160882.951	283490318.123	13315129.016	4.7	4.7
00134_Split2	00135_Split2	210887280.954	210410506.401	111869346.478	53	53.2
00135_Split1	00137_Split1	283317393.713	280901183.213	15277935.544	5.4	5.4
00135_Split2	00136_Split2	241264118.767	241030833.457	118818670.441	49.2	49.3
00135_Split3	00136_Split3	235074805.916	234527599.567	115845812.096	49.3	49.4
00135_Split3	00137_Split3	237023363.615	236630312.374	9374265.827	4	4
00136_Split1	00138_Split1	283479358.555	270395786.157	15153548.98	5.3	5.6
00136_Split2	00137_Split2	238129302.43	237988791.294	127405853.845	53.5	53.5
00137_Split2	00138_Split2	251786946.625	253114634.336	119923998.646	47.6	47.4
00137_Split3	00138_Split3	244846318.616	241071320.223	119955377.958	49	49.8
00138_Split1	00139_Split1	270363875.727	260838014.01	146077057.517	54	56
00138_Split2	00139_Split2	235281908.25	238044806.275	129912060.983	55.2	54.6
00138_Split3	00139_Split3	231021264.104	226569422.449	122165276.472	52.9	53.9
00139_Split1	00140_Split1	256608148.005	256973085.526	123153641.115	48	47.9
00139_Split2	00140_Split2	238225137.507	239347660.828	113016014.296	47.4	47.2
00139_Split3	00140_Split3	203935218.96	206741435.291	97433871.546	47.8	47.1
00140_Split1	00141_Split1	256934579.956	195331288.077	142475775.57	55.5	72.9
00140_Split2	00141_Split2	175238774.604	176786083.986	94350147.341	53.8	53.4
00140_Split3	00141_Split3	143878854.035	143740390.47	76388630.901	53.1	53.1

1.10.2 Report on Flight Line Sidelap - Continued

Adjacent Flight Line 1	Adjacent Flight Line 2	Area 1	Area 2	Overlap Area	Sidelap 1 (%)	Sidelap 2 (%)
00140_Split4	00142_Split2	26817302.873	18624571.259	491807.439	1.8	2.6
00141_Split2	00142_Split1	198478160.18	135986032.766	92893000.056	46.8	68.3
00141_Split3	00142_Split2	169689010.548	117585919.736	78964999.636	46.5	67.2
00142_Split1	00143	21913920.744	29131609.018	14662437.57	66.9	50.3