



Project Information

Prepared By: DAS
Project Name: CA_UpperSouthAmerican_Eldorado_2019_B19
Sensor Info: TM90524
Required Nominal Pulse Spacing: 0.35
Vendor Name: Digital Aerial Solutions
Units: US Survey Feet
Percent of Extent Tolerance: Extents Not Checked
Date of Aquisition: Start: 10/21/2019 Finish: 11/2/2019

Metadata Information

Tile Index:

Filename: USGS_CA_UpperSouthAmerican_Eldorado_2019_TileIndex.shp

Number of Polys: 0

Intensity:

Tile Index Attribute: Not Specified

Data Filename: Not Specified

DEM:

Tile Index Attribute: Tile_ID

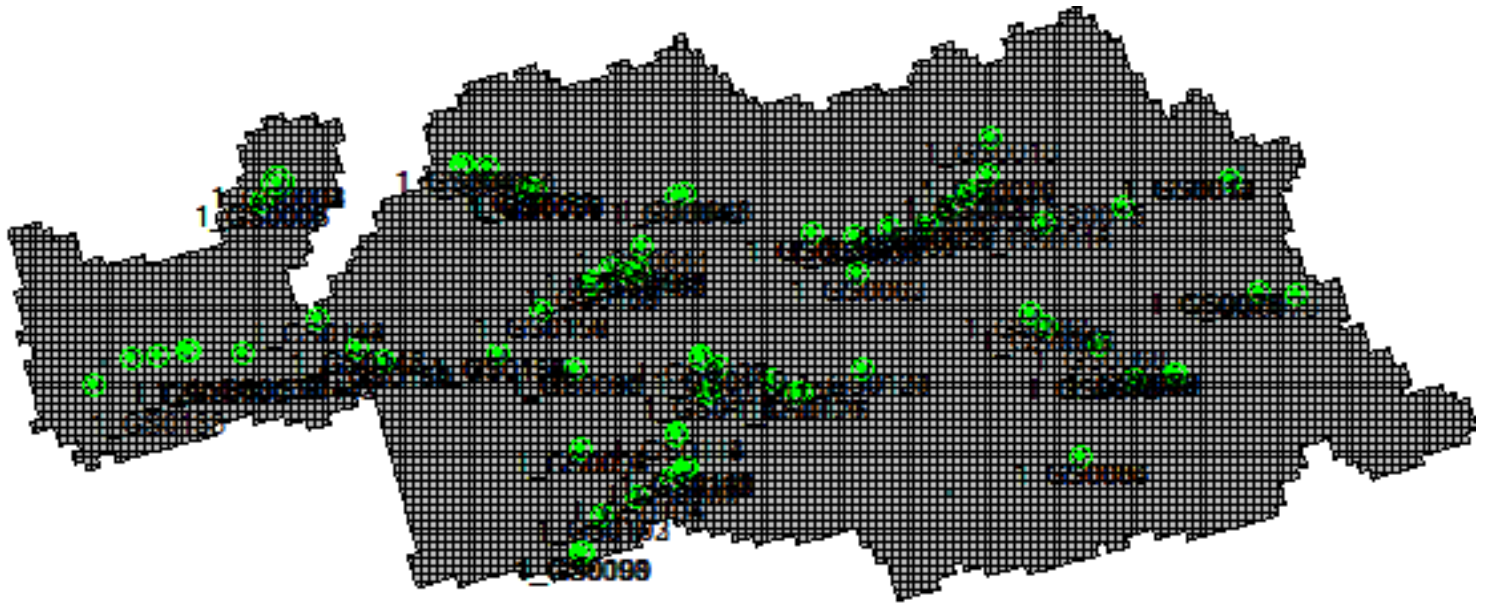
Data Filename: Combo_DEM

LAS:

Tile Index Attribute: Tile_ID

Data Filename: SPC_LAS

Tiled-Data Area



LiDAR Accuracy Assessment Summary

LC Type	# Points	NVA	VVA	RMSE Z
LAS		95% Confidence	95 Percentile	
Bare Earth	45	0.365		0.186
High Vegetation	20		0.502	0.297
Low Vegetation	21		0.674	0.399
Medium Vegetation	28		0.473	0.216
Urban Terrain	49	0.345		0.176
NVA Total:	94	0.355		0.181
VVA Total:	69		0.595	0.305
Total:	163			0.241
DEM		95% Confidence	95 Percentile	
Bare Earth	45	0.370		0.189
High Vegetation	20		0.443	0.290
Low Vegetation	21		0.904	0.474
Medium Vegetation	28		0.523	0.238
Urban Terrain	49	0.351		0.179
NVA Total:	94	0.360		0.184
VVA Total:	69		0.844	0.340
Total:	163			0.241
			Units:	US Survey Feet

Coordinates and Offsets of Analyzed Locations

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
1)	<input checked="" type="checkbox"/>	1_GS0002					
		6793174.799	2059631.071	372.876	372.983	372.974	
				Bare Earth	0.107	0.098	
2)	<input checked="" type="checkbox"/>	1_GS0018					
		7025030.439	2074136.214	4974.264	4974.14	4974.141	
				Bare Earth	-0.124	-0.123	
3)	<input checked="" type="checkbox"/>	1_GS0019					
		7023892.78	2061935.586	5311.03	5311.07	5311.047	
				Bare Earth	0.04	0.017	
4)	<input checked="" type="checkbox"/>	1_GS0020					
		7023816.841	2062068.902	5314.301	5314.536	5314.554	
				Bare Earth	0.235	0.253	
5)	<input checked="" type="checkbox"/>	1_GS0029					
		7003665.137	2046530.729	3244.797	3245.058	3245.045	
				Bare Earth	0.261	0.248	
6)	<input checked="" type="checkbox"/>	1_GS0030					
		6991711.723	2044537.118	3369.136	3369.434	3369.422	
				Bare Earth	0.298	0.286	
7)	<input checked="" type="checkbox"/>	1_GS0032					
		6991531.677	2044599.327	3376.3	3376.343	3376.343	
				Bare Earth	0.043	0.043	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
8)	<input checked="" type="checkbox"/>	1_GS0043					
		6924993.111	2055540.352	2601.263	2601.104	2601.072	
				Bare Earth	-0.159	-0.191	
9)	<input checked="" type="checkbox"/>	1_GS0044					
		6911398.609	2038754.108	2431.152	2431.222	2431.246	
				Bare Earth	0.07	0.094	
10)	<input checked="" type="checkbox"/>	1_GS0046					
		6901367.668	2031935.2	1917.438	1917.439	1917.429	
				Bare Earth	0.001	-0.009	
11)	<input checked="" type="checkbox"/>	1_GS0048					
		6853276.536	2065267.64	809.109	809.276	809.291	
				Bare Earth	0.167	0.182	
12)	<input checked="" type="checkbox"/>	1_GS0050					
		6861548.062	2064333.639	688.43	688.229	688.227	
				Bare Earth	-0.201	-0.203	
13)	<input checked="" type="checkbox"/>	1_GS0058					
		6876836.031	2056676.38	747.812	748.143	748.179	
				Bare Earth	0.331	0.367	
14)	<input checked="" type="checkbox"/>	1_GS0068					
		7059914.245	2006796.028	6982.043	6982.226	6982.253	
				Bare Earth	0.183	0.21	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
15)	<input checked="" type="checkbox"/>	1_GS0073				
		7123885.604	2022709.732	7985.786	7985.926	7985.92
				Bare Earth	0.14	0.134
16)	<input checked="" type="checkbox"/>	1_GS0075				
		7111849.276	2023618.893	7683.912	7684.053	7684.059
				Bare Earth	0.141	0.147
17)	<input checked="" type="checkbox"/>	1_GS0076				
		7111946.287	2023625.818	7683.582	7683.625	7683.634
				Bare Earth	0.043	0.052
18)	<input checked="" type="checkbox"/>	1_GS0078				
		7084755.22	1997406.915	7728.334	7728.393	7728.337
				Bare Earth	0.059	0.003
19)	<input checked="" type="checkbox"/>	1_GS0080				
		7084545.301	1997351.707	7724.154	7724.274	7724.225
				Bare Earth	0.12	0.071
20)	<input checked="" type="checkbox"/>	1_GS0094				
		6891619.552	1973154.359	841.151	841.189	841.18
				Bare Earth	0.038	0.029
21)	<input checked="" type="checkbox"/>	1_GS0096				
		6891679.481	1973265.051	842.922	842.961	842.987
				Bare Earth	0.039	0.065

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
				LC Type	ΔZ DEM	ΔZ LAS	
22)	<input checked="" type="checkbox"/>	1_GS0097					
		6891732.388	1973335.412	845.728	845.933	845.925	
				Bare Earth	0.205	0.197	
23)	<input checked="" type="checkbox"/>	1_GS0098					
		6892049.125	1939223.459	1084.706	1084.51	1084.541	
				Bare Earth	-0.196	-0.165	
24)	<input checked="" type="checkbox"/>	1_GS0119					
		6936758.681	1999935.47	2046.39	2046.433	2046.461	
				Bare Earth	0.043	0.071	
25)	<input checked="" type="checkbox"/>	1_GS0121					
		6961512.027	1990906.123	3160.405	3160.308	3160.312	
				Bare Earth	-0.097	-0.093	
26)	<input checked="" type="checkbox"/>	1_GS0123					
		6983298.499	1999288.716	3995.837	3995.252	3995.271	
				Bare Earth	-0.585	-0.566	
27)	<input checked="" type="checkbox"/>	1_GS0124					
		6983360.033	1999348.48	3996.072	3995.651	3995.642	
				Bare Earth	-0.421	-0.43	
28)	<input checked="" type="checkbox"/>	1_GS0126					
		6953533.312	1995569.604	3023.332	3023.198	3023.214	
				Bare Earth	-0.134	-0.118	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
29)	<input checked="" type="checkbox"/>	1_GS0144				
		6806086.728	2015626.584	440.136	440.025	440.028
				Bare Earth	-0.111	-0.108
30)	<input checked="" type="checkbox"/>	1_GS0154				
		6865075.386	2004123.417	1527.15	1526.922	1526.929
				Bare Earth	-0.228	-0.221
31)	<input checked="" type="checkbox"/>	1_GS0155				
		6865177.711	2004107.518	1526.943	1526.807	1526.802
				Bare Earth	-0.136	-0.141
32)	<input checked="" type="checkbox"/>	1_GS0003				
		6793269.679	2059478.112	370.584	370.646	370.637
				Urban Terrain	0.062	0.053
33)	<input checked="" type="checkbox"/>	1_GS0004				
		6793068.338	2059769.39	375.262	375.488	375.412
				Urban Terrain	0.226	0.15
34)	<input checked="" type="checkbox"/>	1_GS0012				
		7102392.67	2060484.819	6551.945	6552.21	6552.179
				Urban Terrain	0.265	0.234
35)	<input checked="" type="checkbox"/>	1_GS0014				
		7102531.412	2060425.567	6557.01	6556.813	6556.852
				Urban Terrain	-0.198	-0.158

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
36)	<input checked="" type="checkbox"/>	1_GS0015					
		7067497.922	2051977.323	5258.559	5258.798	5258.813	
				Urban Terrain	0.239	0.254	
37)	<input checked="" type="checkbox"/>	1_GS0016					
		7042030.553	2046147.661	3998.669	3998.71	3998.733	
				Urban Terrain	0.041	0.064	
38)	<input checked="" type="checkbox"/>	1_GS0021					
		7018458.324	2056619.963	5243.02	5242.914	5242.948	
				Urban Terrain	-0.106	-0.072	
39)	<input checked="" type="checkbox"/>	1_GS0022					
		7017369.352	2056099.295	5196.532	5196.487	5196.472	
				Urban Terrain	-0.045	-0.06	
40)	<input checked="" type="checkbox"/>	1_GS0023					
		7012013.937	2051619.356	4294.104	4293.738	4293.771	
				Urban Terrain	-0.366	-0.333	
41)	<input checked="" type="checkbox"/>	1_GS0027					
		7003773.919	2046437.442	3247	3247.228	3247.234	
				Urban Terrain	0.228	0.234	
42)	<input checked="" type="checkbox"/>	1_GS0033					
		6980726.971	2041907.44	3619.086	3619.048	3619.087	
				Urban Terrain	-0.038	0.001	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
43)	<input checked="" type="checkbox"/>	1_GS0034				
		6980803.495	2042027.906	3619.072	3619.083	3619.068
				Urban Terrain	0.011	-0.004
44)	<input checked="" type="checkbox"/>	1_GS0042				
		6922955.329	2054845.46	2551.566	2551.502	2551.453
				Urban Terrain	-0.064	-0.113
45)	<input checked="" type="checkbox"/>	1_GS0045				
		6907255.959	2030136.728	1903.731	1903.695	1903.703
				Urban Terrain	-0.036	-0.028
46)	<input checked="" type="checkbox"/>	1_GS0047				
		6853181.649	2065315.353	812.701	812.623	812.653
				Urban Terrain	-0.078	-0.048
47)	<input checked="" type="checkbox"/>	1_GS0053				
		6874344.255	2057903.222	740.292	740.232	740.29
				Urban Terrain	-0.06	-0.002
48)	<input checked="" type="checkbox"/>	1_GS0055				
		6876605.033	2056895.709	749.94	749.844	749.865
				Urban Terrain	-0.096	-0.075
49)	<input checked="" type="checkbox"/>	1_GS0059				
		6876800.065	2056748.301	749.298	749.312	749.304
				Urban Terrain	0.014	0.006

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
50)	<input checked="" type="checkbox"/>	1_GS0062				
		6981173.102	2029835.045	3988.957	3988.767	3988.784
				Urban Terrain	-0.19	-0.173
51)	<input checked="" type="checkbox"/>	1_GS0065				
		7037543.415	2017186.685	6175.551	6175.248	6175.223
				Urban Terrain	-0.303	-0.328
52)	<input checked="" type="checkbox"/>	1_GS0067				
		7042878.194	2012926.786	6312.459	6312.096	6312.069
				Urban Terrain	-0.363	-0.39
53)	<input checked="" type="checkbox"/>	1_GS0072				
		7071672.292	1995747.202	7360.08	7360.193	7360.199
				Urban Terrain	0.113	0.119
54)	<input checked="" type="checkbox"/>	1_GS0084				
		7054133.911	1970279.644	6541.405	6541.24	6541.295
				Urban Terrain	-0.165	-0.11
55)	<input checked="" type="checkbox"/>	1_GS0085				
		7053848.964	1970244.233	6531.445	6531.013	6531.05
				Urban Terrain	-0.432	-0.395
56)	<input checked="" type="checkbox"/>	1_GS0091				
		6889814.826	1998903.916	1803.927	1803.656	1803.677
				Urban Terrain	-0.271	-0.25

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
57)	<input checked="" type="checkbox"/>	1_GS0099					
		6892119.59	1939246.455	1085.626	1085.5	1085.484	
				Urban Terrain	-0.126	-0.142	
58)	<input checked="" type="checkbox"/>	1_GS0101					
		6892195.795	1939157.701	1085.529	1085.383	1085.376	
				Urban Terrain	-0.146	-0.153	
59)	<input checked="" type="checkbox"/>	1_GS0102					
		6898228.617	1951735.197	1451.154	1450.858	1450.863	
				Urban Terrain	-0.296	-0.291	
60)	<input checked="" type="checkbox"/>	1_GS0104					
		6909799.443	1957755.137	1780.25	1780.222	1780.184	
				Urban Terrain	-0.028	-0.066	
61)	<input checked="" type="checkbox"/>	1_GS0106					
		6921000.778	1963179.464	1992.486	1992.363	1992.378	
				Urban Terrain	-0.123	-0.108	
62)	<input checked="" type="checkbox"/>	1_GS0125					
		6963684.707	1991027.224	3103.782	3103.698	3103.644	
				Urban Terrain	-0.084	-0.138	
63)	<input checked="" type="checkbox"/>	1_GS0132					
		6754284.122	2003662.79	113.336	113.356	113.289	
				Urban Terrain	0.02	-0.047	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
64)	<input checked="" type="checkbox"/>	1_GS0136					
		6745739.037	2002680.425	109.986	110.21	110.148	
				Urban Terrain	0.224	0.162	
65)	<input checked="" type="checkbox"/>	1_GS0137					
		6745594.977	2002580.226	109.158	109.308	109.3	
				Urban Terrain	0.15	0.142	
66)	<input checked="" type="checkbox"/>	1_GS0139					
		6764270.003	2004646.349	184.161	184.183	184.159	
				Urban Terrain	0.022	-0.002	
67)	<input checked="" type="checkbox"/>	1_GS0142					
		6781952.593	2004405.237	231.963	232.055	232.23	
				Urban Terrain	0.092	0.267	
68)	<input checked="" type="checkbox"/>	1_GS0147					
		6819257.304	2006046.168	510.279	510.501	510.51	
				Urban Terrain	0.222	0.231	
69)	<input checked="" type="checkbox"/>	1_GS0148					
		6819159.419	2006038.72	509.077	509.19	509.23	
				Urban Terrain	0.113	0.153	
70)	<input checked="" type="checkbox"/>	1_GS0150					
		6827619.551	2001551.415	623.178	623.119	623.166	
				Urban Terrain	-0.059	-0.012	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
71)	<input checked="" type="checkbox"/>	1_GS0151				
		6827443.085	2001399.362	623.048	622.979	623.022
				Urban Terrain	-0.069	-0.026
72)	<input checked="" type="checkbox"/>	1_GS0157				
		6878970.988	2017697.721	1373.097	1373.13	1373.116
				Urban Terrain	0.033	0.019
73)	<input checked="" type="checkbox"/>	1_GS0158				
		6878970.467	2017597.68	1375.17	1375.207	1375.202
				Urban Terrain	0.037	0.032
74)	<input checked="" type="checkbox"/>	1_GS0160				
		6894743.655	2027075.401	1776.245	1776.357	1776.365
				Urban Terrain	0.112	0.12
75)	<input checked="" type="checkbox"/>	1_GS0164				
		6910709.727	2031073.592	1988.096	1988.099	1988.116
				Urban Terrain	0.003	0.02
76)	<input checked="" type="checkbox"/>	1_GS0165				
		6910576.841	2030998.606	1984.116	1984.061	1984.085
				Urban Terrain	-0.055	-0.031
77)	<input checked="" type="checkbox"/>	2_GS0006				
		6718428.567	1642598.726	302.815	302.532	302.538
				Bare Earth	-0.283	-0.277

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
78)	<input checked="" type="checkbox"/>	2_GS0007					
		6718478.552	1642684.411	300.745	300.609	300.624	
				Bare Earth	-0.136	-0.121	
79)	<input checked="" type="checkbox"/>	2_GS0009					
		6704461.975	1628150.119	541.627	541.582	541.625	
				Bare Earth	-0.045	-0.002	
80)	<input checked="" type="checkbox"/>	2_GS0010					
		6704319.883	1628087.78	543.574	543.346	543.379	
				Bare Earth	-0.228	-0.195	
81)	<input checked="" type="checkbox"/>	2_GS0012					
		6687775.245	1630013.506	729.591	729.623	729.631	
				Bare Earth	0.032	0.04	
82)	<input checked="" type="checkbox"/>	2_GS0014					
		6674438.359	1634333.095	1601.834	1601.881	1601.853	
				Bare Earth	0.047	0.019	
83)	<input checked="" type="checkbox"/>	2_GS0015					
		6674343.33	1634340.47	1599.548	1599.451	1599.448	
				Bare Earth	-0.097	-0.1	
84)	<input checked="" type="checkbox"/>	2_GS0019					
		6746729.47	1631690.589	191.189	190.995	191.042	
				Bare Earth	-0.194	-0.147	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
85)	<input checked="" type="checkbox"/>	2_GS0022					
		6742107.382	1621312.47	398.254	398.193	398.207	
				Bare Earth	-0.061	-0.047	
86)	<input checked="" type="checkbox"/>	2_GS0026					
		6758084.168	1609944.353	332.418	332.35	332.372	
				Bare Earth	-0.068	-0.046	
87)	<input checked="" type="checkbox"/>	2_GS0027					
		6773046.873	1594617.185	279.638	279.825	279.827	
				Bare Earth	0.187	0.189	
88)	<input checked="" type="checkbox"/>	2_GS0029					
		6773054.341	1594795.125	276.169	276.297	276.284	
				Bare Earth	0.128	0.115	
89)	<input checked="" type="checkbox"/>	2_GS0032					
		6773467.282	1594882.567	272.717	272.958	272.951	
				Bare Earth	0.241	0.234	
90)	<input checked="" type="checkbox"/>	2_GS0033					
		6773401.568	1594809.515	273.746	273.9	273.905	
				Bare Earth	0.154	0.159	
91)	<input checked="" type="checkbox"/>	2_GS0003					
		6695584.894	1659775.823	288.988	288.669	288.682	
				Urban Terrain	-0.319	-0.306	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
92)	<input checked="" type="checkbox"/>	2_GS0017					
		6735933.477	1631868.734	264.804	264.55	264.559	
				Urban Terrain	-0.254	-0.245	
93)	<input checked="" type="checkbox"/>	2_GS0021					
		6747198.874	1616978.452	336.226	335.954	335.952	
				Urban Terrain	-0.272	-0.274	
94)	<input checked="" type="checkbox"/>	2_GS0036					
		6774531.454	1595567.855	259.885	259.827	259.815	
				Urban Terrain	-0.058	-0.07	
95)	<input checked="" type="checkbox"/>	1_GS0006					
		6787889.617	2053352.031	316.981	316.866	316.868	
				High Vegetation	-0.115	-0.113	
96)	<input checked="" type="checkbox"/>	1_GS0011					
		7102374.586	2060406.945	6548.93	6549.323	6549.311	
				High Vegetation	0.393	0.381	
97)	<input checked="" type="checkbox"/>	1_GS0031					
		6991610.876	2044613.719	3375.995	3375.279	3375.307	
				High Vegetation	-0.716	-0.688	
98)	<input checked="" type="checkbox"/>	1_GS0037					
		6966870.524	2042711.444	3961.167	3961.23	3961.336	
				High Vegetation	0.063	0.169	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
99)	<input checked="" type="checkbox"/>	1_GS0051					
		6874246.533	2057877.402	741.574	741.632	741.657	
				High Vegetation	0.058	0.083	
100)	<input checked="" type="checkbox"/>	1_GS0052					
		6874258.038	2057973.901	742.252	742.531	742.489	
				High Vegetation	0.279	0.237	
101)	<input checked="" type="checkbox"/>	1_GS0056					
		6876602.402	2056711.101	749.468	749.592	749.579	
				High Vegetation	0.124	0.111	
102)	<input checked="" type="checkbox"/>	1_GS0057					
		6876720.483	2056673.332	749.06	749.342	749.444	
				High Vegetation	0.282	0.384	
103)	<input checked="" type="checkbox"/>	1_GS0082					
		7084801.65	1997245.899	7730.074	7730.276	7730.274	
				High Vegetation	0.202	0.2	
104)	<input checked="" type="checkbox"/>	1_GS0086					
		7053947.631	1970232.618	6535.236	6535.336	6535.317	
				High Vegetation	0.1	0.081	
105)	<input checked="" type="checkbox"/>	1_GS0092					
		6889807.775	1998993.53	1801.509	1801.567	1801.64	
				High Vegetation	0.058	0.131	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID						
		Survey X	Survey Y	Z1	Z DEM	Z LAS	
				LC Type	ΔZ DEM	ΔZ LAS	
106)	<input checked="" type="checkbox"/>	1_GS0095					
		6891615.844	1973032.817	836.431	836.758	836.751	
				High Vegetation	0.327	0.32	
107)	<input checked="" type="checkbox"/>	1_GS0105					
		6909796.41	1957673.578	1776.021	1776.464	1776.523	
				High Vegetation	0.443	0.502	
108)	<input checked="" type="checkbox"/>	1_GS0107					
		6921052.639	1963373.233	1995.39	1995.415	1995.385	
				High Vegetation	0.025	-0.005	
109)	<input checked="" type="checkbox"/>	1_GS0112					
		6925584.893	1966653.356	2138.228	2138.301	2138.28	
				High Vegetation	0.073	0.052	
110)	<input checked="" type="checkbox"/>	1_GS0118					
		6936680.521	1999743.119	2028.358	2028.688	2028.671	
				High Vegetation	0.33	0.313	
111)	<input checked="" type="checkbox"/>	1_GS0120					
		6961575.496	1990867.592	3163.235	3163.193	3163.175	
				High Vegetation	-0.042	-0.06	
112)	<input checked="" type="checkbox"/>	1_GS0138					
		6764177.241	2004702.004	184.627	184.995	185.008	
				High Vegetation	0.368	0.381	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
113)	<input checked="" type="checkbox"/>	1_GS0149					
		6827655.502	2001466.229	622.466	622.172	622.192	
				High Vegetation	-0.294	-0.274	
114)	<input checked="" type="checkbox"/>	1_GS0156					
		6878969.401	2017779.416	1371.501	1371.861	1371.873	
				High Vegetation	0.36	0.372	
115)	<input checked="" type="checkbox"/>	1_GS0005					
		6787848.93	2053434.505	317.735	317.603	317.633	
				Low Vegetation	-0.132	-0.102	
116)	<input checked="" type="checkbox"/>	1_GS0007					
		6787907.717	2053413.949	316.437	316.321	316.261	
				Low Vegetation	-0.116	-0.176	
117)	<input checked="" type="checkbox"/>	1_GS0036					
		6966897.361	2042559.418	3962.842	3963.686	3963.462	
				Low Vegetation	0.844	0.62	
118)	<input checked="" type="checkbox"/>	1_GS0038					
		6966732.209	2042669.674	3963.921	3964.784	3964.516	
				Low Vegetation	0.863	0.595	
119)	<input checked="" type="checkbox"/>	1_GS0039					
		6966746.746	2042547.085	3965.064	3965.279	3965.291	
				Low Vegetation	0.215	0.227	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
120)	<input checked="" type="checkbox"/>	1_GS0041					
		6922860.988	2054831.666	2548.838	2548.907	2548.923	
				Low Vegetation	0.069	0.085	
121)	<input checked="" type="checkbox"/>	1_GS0100					
		6892083.28	1939014.576	1074.838	1074.955	1074.927	
				Low Vegetation	0.117	0.089	
122)	<input checked="" type="checkbox"/>	1_GS0113					
		6922481.287	1977711.258	1840.258	1840.612	1840.646	
				Low Vegetation	0.354	0.388	
123)	<input checked="" type="checkbox"/>	1_GS0114					
		6922509.6	1977828.058	1839.397	1840.25	1839.965	
				Low Vegetation	0.853	0.568	
124)	<input checked="" type="checkbox"/>	1_GS0141					
		6781956.786	2004491.536	231.696	231.907	231.919	
				Low Vegetation	0.211	0.223	
125)	<input checked="" type="checkbox"/>	1_GS0143					
		6806005.834	2015569.395	439.25	439.367	439.28	
				Low Vegetation	0.117	0.03	
126)	<input checked="" type="checkbox"/>	1_GS0146					
		6819331.382	2005938.382	510.193	511.138	510.921	
				Low Vegetation	0.945	0.728	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
127)	<input checked="" type="checkbox"/>	1_GS0153					
		6865000.41	2004233.459	1524.232	1524.443	1524.364	
				Low Vegetation	0.211	0.132	
128)	<input checked="" type="checkbox"/>	1_GS0159					
		6894783.229	2026986.82	1777.604	1778.168	1778.143	
				Low Vegetation	0.564	0.539	
129)	<input checked="" type="checkbox"/>	1_GS0013					
		7102417.677	2060638.739	6553.66	6553.76	6553.782	
				Medium Vegetation	0.1	0.122	
130)	<input checked="" type="checkbox"/>	1_GS0028					
		7003892.906	2046342.959	3245.174	3245.82	3245.762	
				Medium Vegetation	0.646	0.588	
131)	<input checked="" type="checkbox"/>	1_GS0060					
		6876893.564	2056849.165	750.83	750.778	750.93	
				Medium Vegetation	-0.052	0.1	
132)	<input checked="" type="checkbox"/>	1_GS0063					
		6981343.191	2029853.341	3991.279	3991.054	3991.055	
				Medium Vegetation	-0.225	-0.224	
133)	<input checked="" type="checkbox"/>	1_GS0066					
		7042803.859	2012927.776	6308.758	6308.741	6308.653	
				Medium Vegetation	-0.017	-0.105	

Coordinates and Offsets of Analyzed Locations (Continued)

	ID						
		Survey X	Survey Y	Z1	Z DEM	Z LAS	
				LC Type	ΔZ DEM	ΔZ LAS	
134)	<input checked="" type="checkbox"/>	1_GS0070					
		7071541.93	1995808.754	7359.294	7359.491	7359.463	
				Medium Vegetation	0.197	0.169	
135)	<input checked="" type="checkbox"/>	1_GS0071					
		7071380.607	1995783.635	7364.928	7364.937	7365.043	
				Medium Vegetation	0.009	0.115	
136)	<input checked="" type="checkbox"/>	1_GS0077					
		7112059.214	2023639.322	7683.036	7683.345	7683.288	
				Medium Vegetation	0.309	0.252	
137)	<input checked="" type="checkbox"/>	1_GS0079					
		7084647.486	1997380.061	7722.699	7722.778	7722.844	
				Medium Vegetation	0.079	0.145	
138)	<input checked="" type="checkbox"/>	1_GS0081					
		7084709.132	1997298.752	7729.112	7729.458	7729.499	
				Medium Vegetation	0.346	0.387	
139)	<input checked="" type="checkbox"/>	1_GS0090					
		6889809.997	1998786.518	1805.529	1805.202	1805.214	
				Medium Vegetation	-0.327	-0.315	
140)	<input checked="" type="checkbox"/>	1_GS0103					
		6898315.627	1951692.809	1448.295	1448.273	1448.265	
				Medium Vegetation	-0.022	-0.03	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
141)	<input checked="" type="checkbox"/>	1_GS0109				
		6926021.741	1966780.482	2141.879	2141.794	2141.824
				Medium Vegetation	-0.085	-0.055
142)	<input checked="" type="checkbox"/>	1_GS0110				
		6925799.893	1966783.757	2135.082	2134.896	2134.939
				Medium Vegetation	-0.186	-0.143
143)	<input checked="" type="checkbox"/>	1_GS0111				
		6925731.88	1966864.553	2142.306	2142.418	2142.45
				Medium Vegetation	0.112	0.144
144)	<input checked="" type="checkbox"/>	1_GS0115				
		6932913.529	1991693.792	1749.795	1749.974	1749.923
				Medium Vegetation	0.179	0.128
145)	<input checked="" type="checkbox"/>	1_GS0116				
		6932897.181	1991499.251	1758.444	1758.35	1758.45
				Medium Vegetation	-0.094	0.006
146)	<input checked="" type="checkbox"/>	1_GS0127				
		6930768.288	2002847.227	2019.448	2019.464	2019.455
				Medium Vegetation	0.016	0.007
147)	<input checked="" type="checkbox"/>	1_GS0128				
		6930806.567	2002746.279	2009.089	2009.304	2009.188
				Medium Vegetation	0.215	0.099

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
148)	<input checked="" type="checkbox"/>	1_GS0131				
		6754197.553	2003651.437	113.389	113.403	113.355
				Medium Vegetation	0.014	-0.034
149)	<input checked="" type="checkbox"/>	1_GS0133				
		6733354.014	1993344.445	62.895	62.767	62.69
				Medium Vegetation	-0.128	-0.205
150)	<input checked="" type="checkbox"/>	1_GS0135				
		6745710.048	2002592.196	112.438	112.783	112.368
				Medium Vegetation	0.345	-0.07
151)	<input checked="" type="checkbox"/>	1_GS0163				
		6910617.17	2031063.801	1985.807	1985.826	1985.828
				Medium Vegetation	0.019	0.021
152)	<input checked="" type="checkbox"/>	2_GS0004				
		6695789.421	1659933.574	285.962	286.309	286.221
				Low Vegetation	0.347	0.259
153)	<input checked="" type="checkbox"/>	2_GS0005				
		6718354.922	1642519.512	304.323	304.254	304.016
				Low Vegetation	-0.069	-0.307
154)	<input checked="" type="checkbox"/>	2_GS0008				
		6704417.689	1628069.019	541.129	541.655	541.686
				Low Vegetation	0.526	0.557

Coordinates and Offsets of Analyzed Locations (Continued)

	ID			Z1	Z DEM	Z LAS	
		Survey X	Survey Y				
			LC Type				ΔZ DEM
155)	<input checked="" type="checkbox"/>	2_GS0013					
		6687576.522	1630084.968	730.902	731.199	731.103	
				Low Vegetation	0.297	0.201	
156)	<input checked="" type="checkbox"/>	2_GS0018					
		6746814.523	1631712.907	190.194	190.094	190.035	
				Low Vegetation	-0.1	-0.159	
157)	<input checked="" type="checkbox"/>	2_GS0028					
		6772976.9	1594758.569	277.614	278.104	278.141	
				Low Vegetation	0.49	0.527	
158)	<input checked="" type="checkbox"/>	2_GS0030					
		6773367.034	1594914.496	272.881	273.381	273.451	
				Low Vegetation	0.5	0.57	
159)	<input checked="" type="checkbox"/>	2_GS0016					
		6735997.207	1631937.963	262.436	262.268	262.282	
				Medium Vegetation	-0.168	-0.154	
160)	<input checked="" type="checkbox"/>	2_GS0024					
		6757910.532	1610062.95	338.977	339.059	339.036	
				Medium Vegetation	0.082	0.059	
161)	<input checked="" type="checkbox"/>	2_GS0025					
		6758091.747	1610044.351	332.953	333.067	333.066	
				Medium Vegetation	0.114	0.113	

Coordinates and Offsets of Analyzed Locations (Continued)

		ID				
		Survey X	Survey Y	Z1	Z DEM	Z LAS
				LC Type	ΔZ DEM	ΔZ LAS
162)	<input checked="" type="checkbox"/>	2_GS0034				
		6773786.114	1595124.887	269.492	270.015	269.965
				Medium Vegetation	0.523	0.473
163)	<input checked="" type="checkbox"/>	2_GS0035				
		6773725.579	1595185.623	269.705	270.084	270.045
				Medium Vegetation	0.379	0.34

LAS

Nonvegetated Vertical Accuracy

LandCover Type: Bare Earth, Urban Terrain

Minimum DZ: -0.566

Maximum DZ: 0.367

Mean DZ: -0.023

Mean Magnitude DZ: 0.377

Number Observations: 94

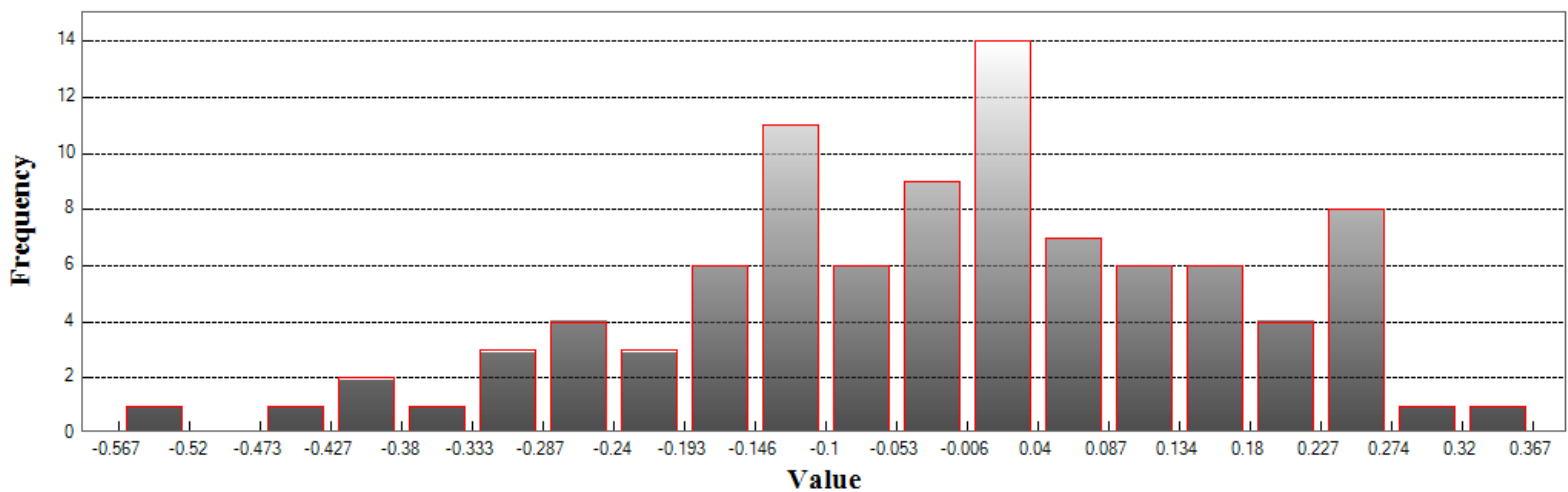
Standard Deviation DZ: 0.18

RMSE Z: 0.181

95% Confidence Level Z: 0.355

Units: US Survey Feet

Histogram



Min: -0.566
 Max: 0.367
 Number Of Bins: 20
 Bin Interval: 0.047

LAS (Continued)

Vegetated Vertical Accuracy

LandCover Type: High Vegetation

Minimum DZ: -0.688

Maximum DZ: 0.502

Mean DZ: 0.129

Mean Magnitude DZ: 0.493

Number Observations: 20

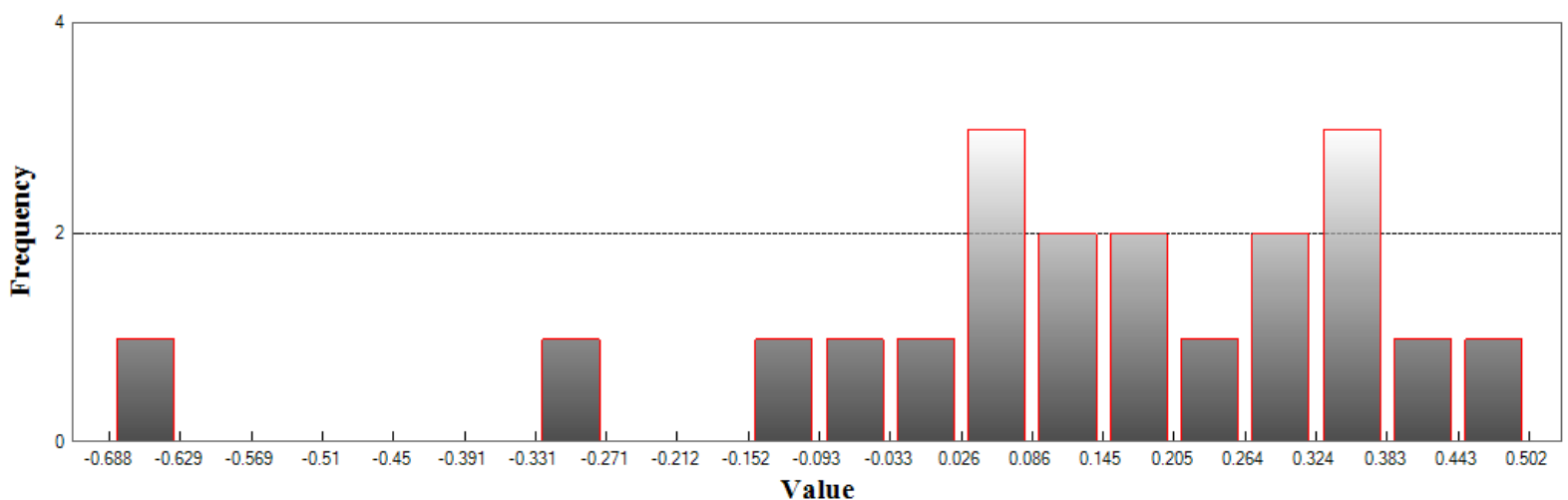
Standard Deviation DZ: 0.275

RMSE Z: 0.297

95th Percentile: 0.502

Units: US Survey Feet

Histogram



Min: -0.688

Max: 0.502

Number Of Bins: 20

Bin Interval: 0.06

LAS (Continued)

Vegetated Vertical Accuracy

LandCover Type: Low Vegetation

Minimum DZ: -0.307

Maximum DZ: 0.728

Mean DZ: 0.266

Mean Magnitude DZ: 0.581

Number Observations: 21

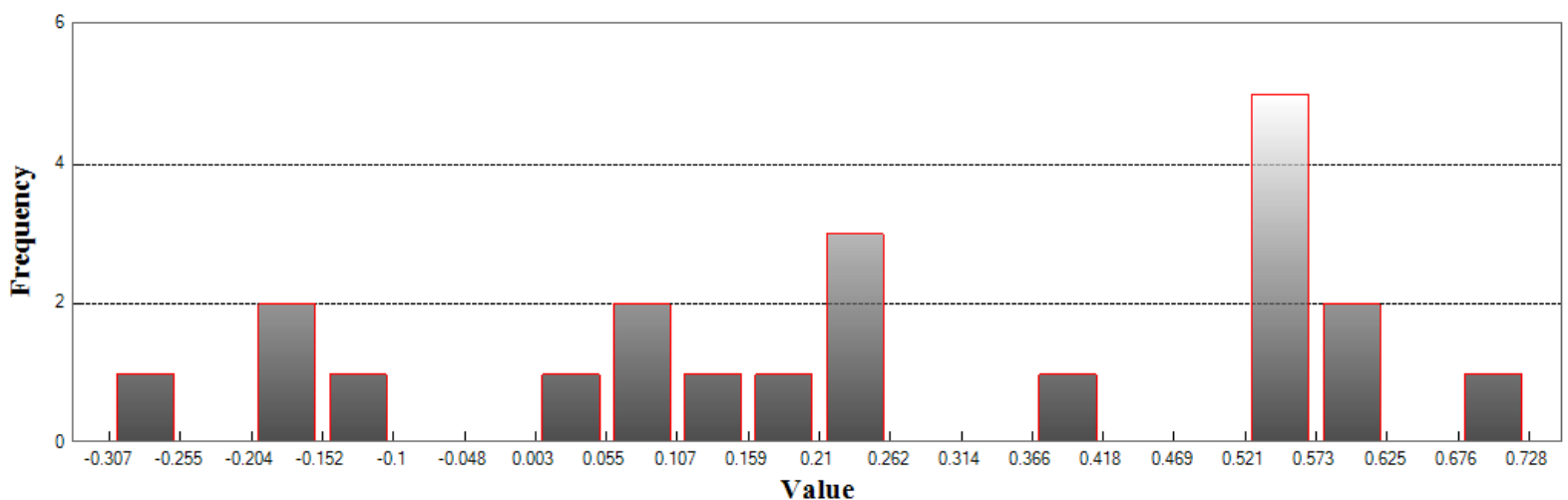
Standard Deviation DZ: 0.305

RMSE Z: 0.399

95th Percentile: 0.674

Units: US Survey Feet

Histogram



Min: -0.307

Max: 0.728

Number Of Bins: 20

Bin Interval: 0.052

LAS (Continued)

Vegetated Vertical Accuracy

LandCover Type: Medium Vegetation

Minimum DZ: -0.315

Maximum DZ: 0.588

Mean DZ: 0.069

Mean Magnitude DZ: 0.406

Number Observations: 28

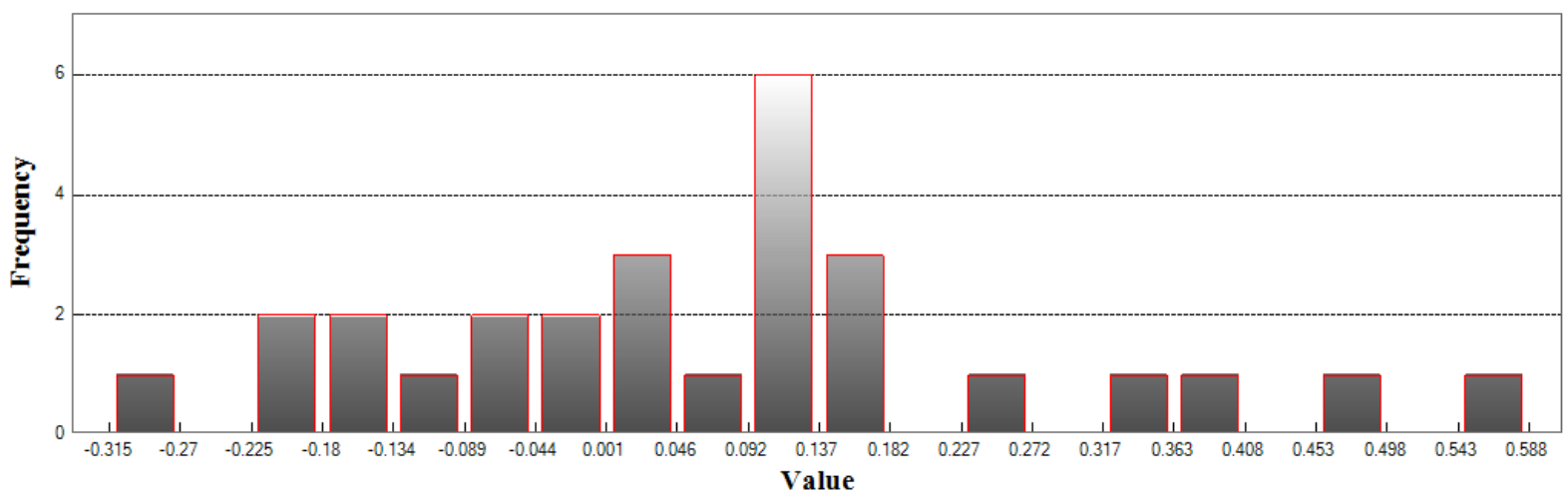
Standard Deviation DZ: 0.208

RMSE Z: 0.216

95th Percentile: 0.473

Units: US Survey Feet

Histogram



Min: -0.315

Max: 0.588

Number Of Bins: 20

Bin Interval: 0.045

DEM

Nonvegetated Vertical Accuracy

LandCover Type: Bare Earth, Urban Terrain

Minimum DZ: -0.585

Maximum DZ: 0.331

Mean DZ: -0.028

Mean Magnitude DZ: 0.383

Number Observations: 94

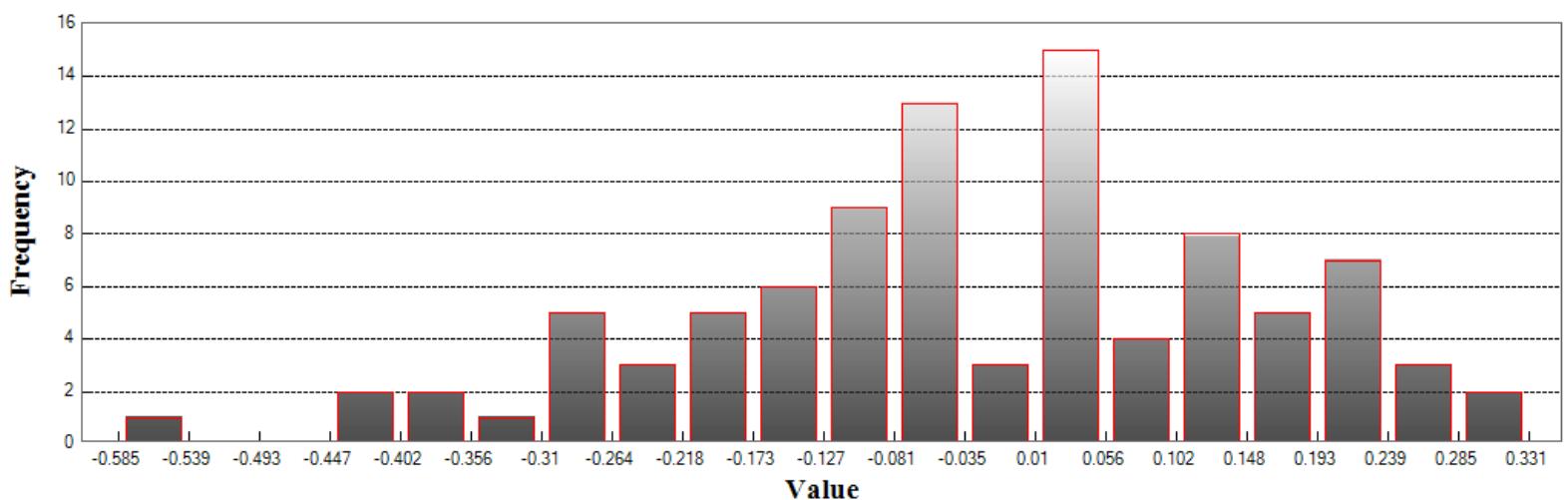
Standard Deviation DZ: 0.183

RMSE Z: 0.184

95% Confidence Level Z: 0.36

Units: US Survey Feet

Histogram



Min: -0.585

Max: 0.331

Number Of Bins: 20

Bin Interval: 0.046

DEM (Continued)

Vegetated Vertical Accuracy

LandCover Type: High Vegetation

Minimum DZ: -0.716

Maximum DZ: 0.443

Mean DZ: 0.116

Mean Magnitude DZ: 0.482

Number Observations: 20

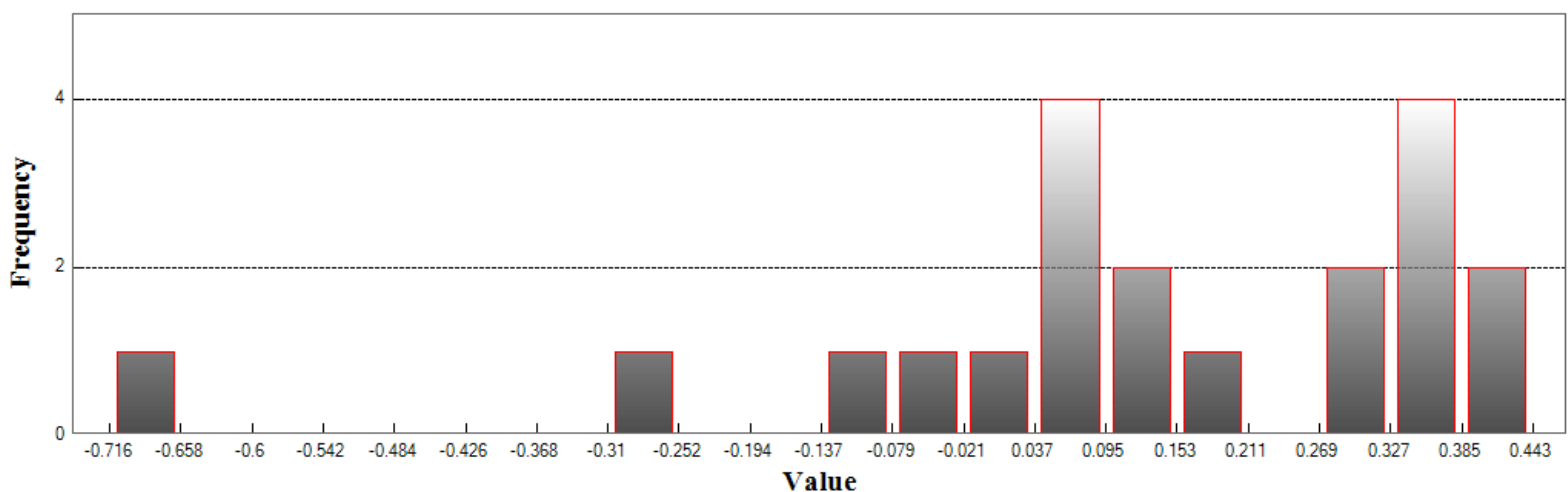
Standard Deviation DZ: 0.273

RMSE Z: 0.29

95th Percentile: 0.443

Units: US Survey Feet

Histogram



Min: -0.716

Max: 0.443

Number Of Bins: 20

Bin Interval: 0.058

DEM (Continued)

Vegetated Vertical Accuracy

LandCover Type: Low Vegetation

Minimum DZ: -0.132

Maximum DZ: 0.945

Mean DZ: 0.338

Mean Magnitude DZ: 0.615

Number Observations: 21

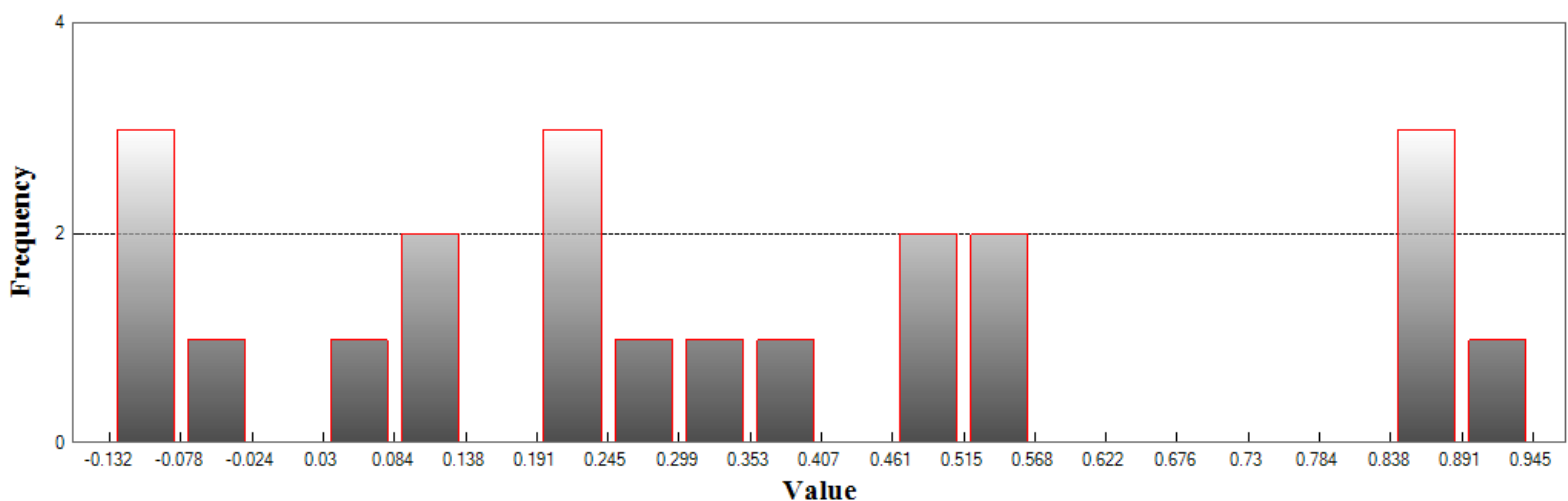
Standard Deviation DZ: 0.34

RMSE Z: 0.474

95th Percentile: 0.904

Units: US Survey Feet

Histogram



Min: -0.132

Max: 0.945

Number Of Bins: 20

Bin Interval: 0.054

DEM (Continued)

Vegetated Vertical Accuracy

LandCover Type: Medium Vegetation

Minimum DZ: -0.327

Maximum DZ: 0.646

Mean DZ: 0.085

Mean Magnitude DZ: 0.422

Number Observations: 28

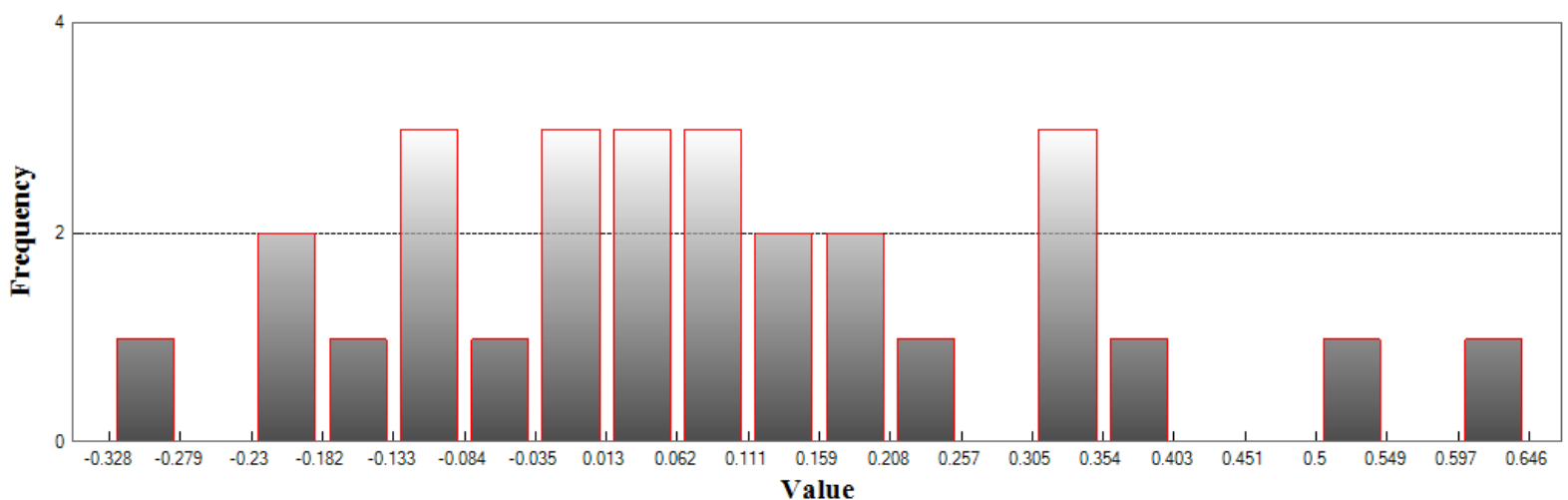
Standard Deviation DZ: 0.227

RMSE Z: 0.238

95th Percentile: 0.523

Units: US Survey Feet

Histogram



Min: -0.327

Max: 0.646

Number Of Bins: 20

Bin Interval: 0.049