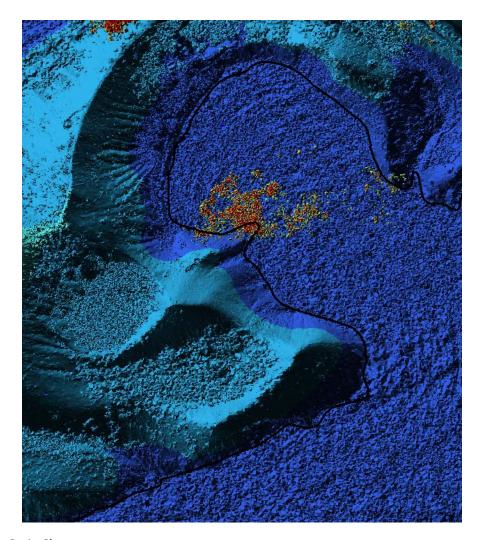
# **Lidar Data for the Hawaiian Islands**

Known and Available Data sets from 1999-2017



Compiled by Craig Clouet

Esri



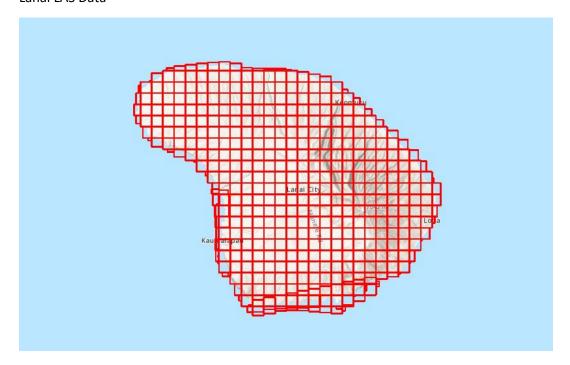
# Hawaii Island LAS Data



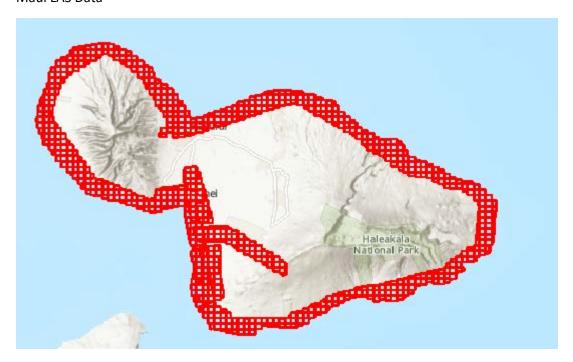
# Kauai LAS Data



# Lanai LAS Data



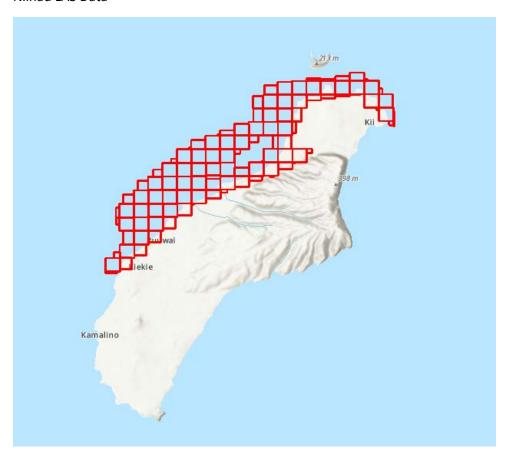
# Maui LAS Data



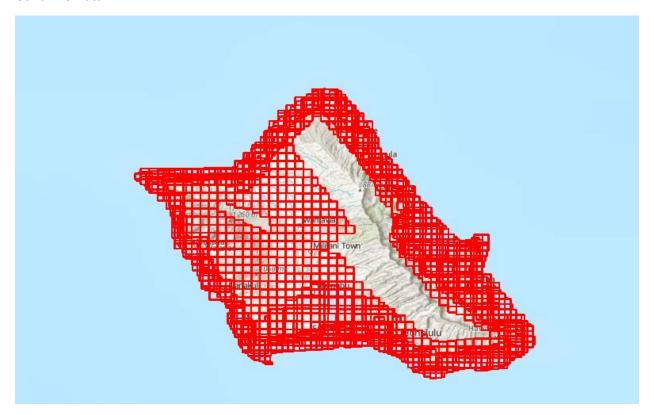
# Molokai LAS Data



# Niihau LAS Data

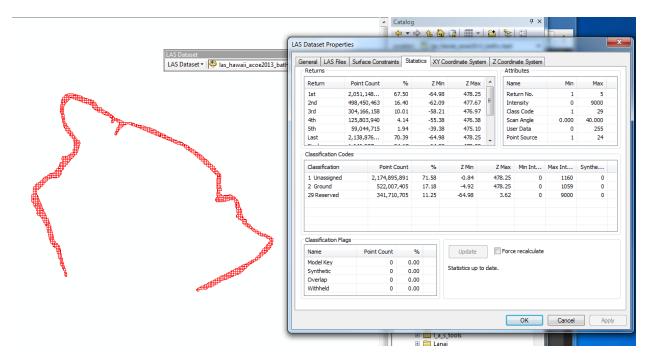


# Oahu LAS Data



Island	LASdata	LASfiles	Pointcount	
Hawaii	las_hawaii_acoe2013bathy	1050	3,038,614,001	
Hawaii	las hawaiiDC	1075	544,742,731	
Hawaii	las_Hawaii_kilaeua_a1	1	14,844,506	
Hawaii	las_kona_extract_first	140	90,758,636	
Hawaii	las kona extract last	140	88,630,713	
Hawaii	las_kona_ground_first	139	65,239,112	
Hawaii	las kona ground last	140	67,179,623	
Hawaii	las_pelekane_noaa	11	1,124,720,789	
Hawaii	las waimea a1 first	204	95,883,837	
Hawaii	las waimea a1 last	204	101,183,559	
Total			5,216,953,001	
Kauai	las dnlr 2017	49	434,271,598	
Kauai	las HI09 kauai	244	916,900,535	
Kauai	las_HI13_huppert	146	995,581,661	
Kauai	las kauai acoe2013 bathy	568	2,160,715,913	
Kauai	Las kauai DOFAW 2017 L1	365	3,464,316	
Kauai	Las_kauai_DOFAW_2017_L2	365	3,464,316	
Total			4,507,469,707	
Lanai	las_acoe2013_bathy	56	107,456,942	
Lanai	las_lanai_a1	441	231,753,291	
Total			339,210,233	
Maui	las_maui_acoe2013	745	2,450,560,460	
Maui	las_maui_femaArea_baldlast	15	2,060,770	
Maui	las_maui_femaArea_extractlast	15	2,421,321	
Maui	las_maui_femafema_bald	53	20,494,724	
Maui	las_maui_femafema_extract	53	20,309,072	
Maui	las_maui_prior1A_extract	50	14,558,488	
Maui	las_maui_prior1A_ground	49	18,135,226	
Maui	las_maui_prior1B_extract	43	14,220,409	
Maui	las_maui_prior1B_ground	43	18,018,884	
Maui	las_maui_psc	12	31,673,607	
Total			2,592,452,961	
Molokai	las_molokai_acoe2013bathy	484	1,241,843,222	
Total			1,241,843,222	
Niihau	las_niihau_acoebathy2013	111	158,559,154	
Total			158,559,154	
Oahu	las_oahu_acoe2013_bathy	886	3,197,923,571	
Oahu	las_oahu_harbor_first_bare	65	8,007,704	
Oahu	las_oahu_harbor_first_extract	65	7,036,061	
Oahu	las_oahu_harbor_last_bare	65	8,416,065	

Oahu	las_oahu_harbor_last_extract	62	6,448,349	
Oahu	las_oahu_noaa2013	485	2,453,123,978	
Oahu	las_oahu_northshore_first_extract	129	68,828,656	
Oahu	las_oahu_northshore_last_bald	129	43,792,009	
Oahu	las_oahu_northshore_last_extract	129	69,536,195	
Oahu	las_oahu_northwest_first_bald	102	24,978,038	
Oahu	las_oahu_northwest_first_extract	102	26,901,349	
Oahu	las_oahu_northwest_last_bald	102	24,675,190	
Oahu	las_oahu_psc	47	100,533,243	
Oahu	las_oahu_psc_coastal	63	68,611,112	
Total			6,108,811,520	
State Total			18,923,456,576	



Folder: F:\Hawaii\las\_hawaii\_acoe2013bathy

LAS Dataset: las\_hawaii\_acoe2013\_bathy.lasd

Z Range: -64.980000, 478.250000

LAS Files: 1050

Surface Constraints: 0

LAS points: 3,038,614,001

#### Classification code statistics:

1 Unassigned: 2,174,895,891

2 Ground: 522,007,405

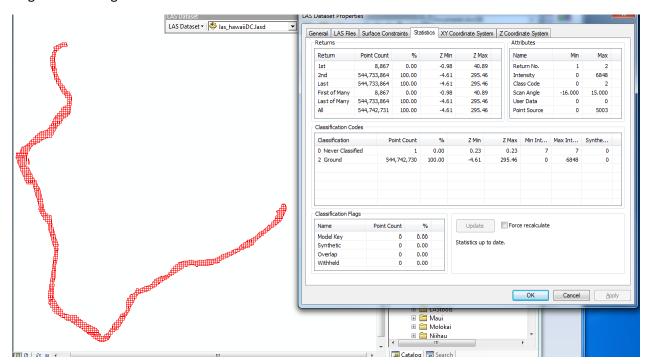
29 Reserved: 341,710,705

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

## Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Hawaii\las\_hawaiiDC

LAS Dataset: las\_hawaiiDC.lasd

Z Range: -4.607000, 295.460000

LAS Files: 1075

Surface Constraints: 0

LAS points: 544,742,731

## Classification code statistics:

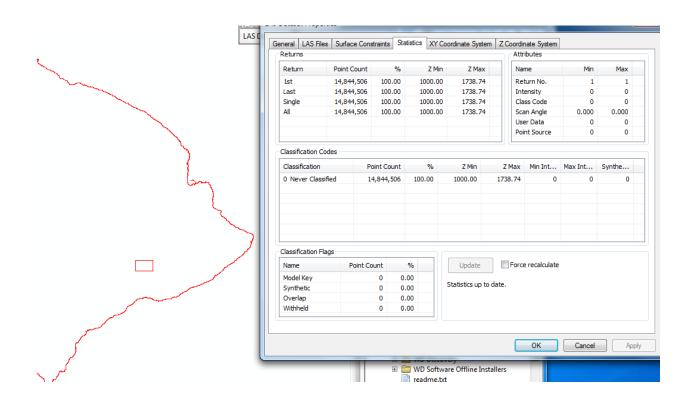
0 Never Classified: 1

2 Ground: 544,742,730

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0



Folder: F:\Hawaii\las\_kilauea\_a1

LAS Dataset: las\_hawaii\_kilauea\_A1.lasd

Z Range: 1000.000000, 1738.740000

LAS Files: 1

Surface Constraints: 0

LAS points: 14,844,506

Classification code statistics:

0 Never Classified: 14,844,506

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

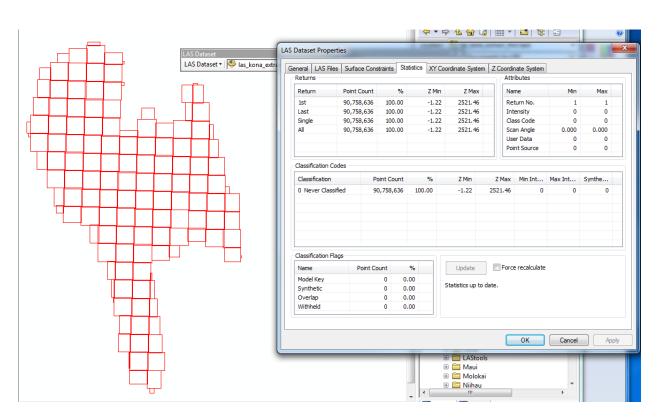
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Hawaii\las\_kona\_extract\_first

LAS Dataset: las\_kona\_extract\_first.lasd

Z Range: -1.220000, 2521.460000

LAS Files: 140

Surface Constraints: 0

LAS points: 90,758,636

Classification code statistics:

0 Never Classified: 90,758,636

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

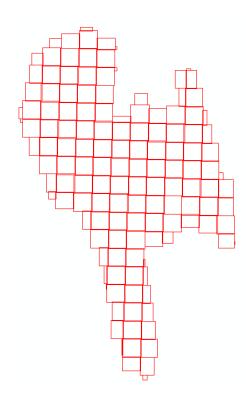
Latitude\_Of\_Origin: 0.00000000

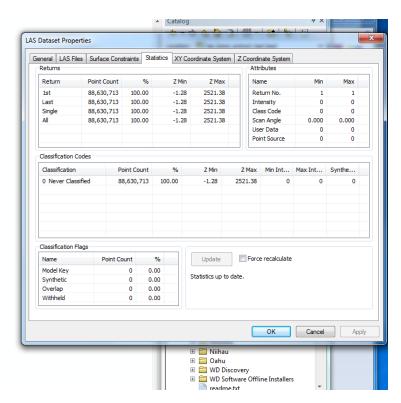
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0





Folder: F:\Hawaii\las\_kona\_extract\_last

LAS Dataset: las\_kona\_extract\_last.lasd

Z Range: -1.280000, 2521.380000

LAS Files: 140

Surface Constraints: 0

LAS points: 88,630,713

Classification code statistics:

0 Never Classified: 88,630,713

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

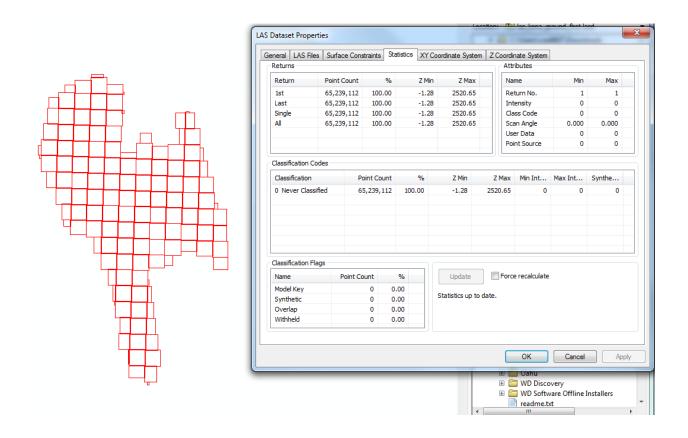
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Hawaii\las\_kona\_ground\_first

LAS Dataset: las\_kona\_ground\_first.lasd

Z Range: -1.280000, 2520.650000

LAS Files: 139

Surface Constraints: 0

LAS points: 65,239,112

Classification code statistics:

0 Never Classified: 65,239,112

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

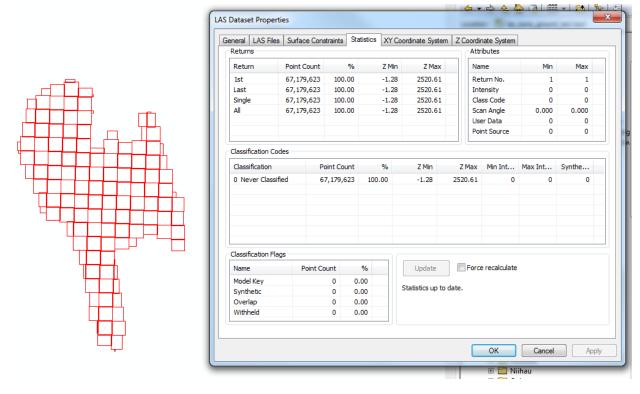
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0



Folder: F:\Hawaii\las\_kona\_ground\_last

LAS Dataset: las\_kona\_ground\_last.lasd

Z Range: -1.280000, 2520.610000

LAS Files: 140

Surface Constraints: 0

LAS points: 67,179,623

## Classification code statistics:

0 Never Classified: 67,179,623

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

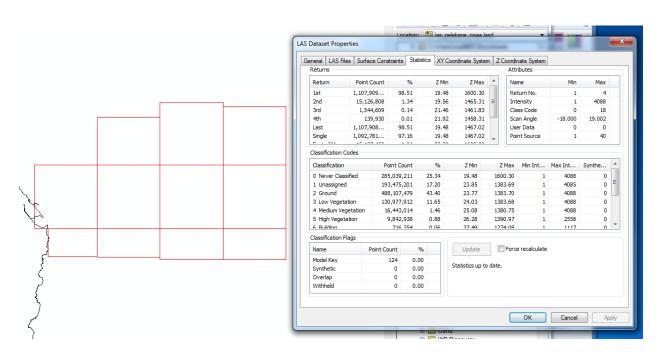
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Hawaii\las\_pelekane\_noaa

LAS Dataset: las\_pelekane\_noaa.lasd

Z Range: 19.480000, 1600.300000

LAS Files: 11

Surface Constraints: 0

LAS points: 1,124,720,789

Classification code statistics:

0 Never Classified: 285,039,211

1 Unassigned: 193,475,201

2 Ground: 488,107,479

3 Low Vegetation: 130,977,912

4 Medium Vegetation: 16,443,014

5 High Vegetation: 9,842,938

6 Building: 716,354

7 Noise: 761

9 Water: 154

17 Bridge Deck: 4,494

18 High Noise: 113,271

Projected Coordinate System: NAD\_1983\_HARN\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

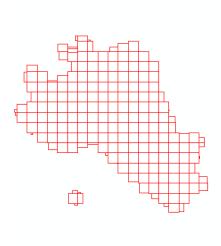
Latitude\_Of\_Origin: 0.00000000

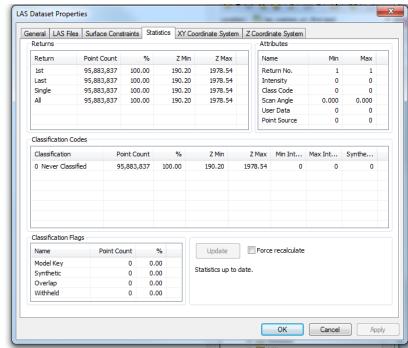
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0





Folder: F:\Hawaii\las\_waimea\_a1\_first

LAS Dataset: las\_waimea\_a1\_first.lasd

Z Range: 190.200000, 1978.540000

LAS Files: 204

Surface Constraints: 0

LAS points: 95,883,837

Classification code statistics:

0 Never Classified: 95,883,837

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

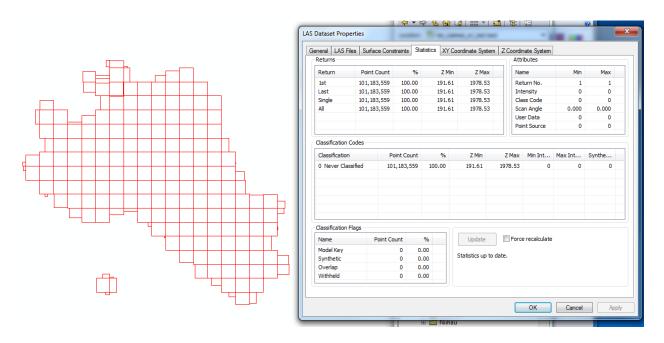
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Hawaii\las\_waimea\_a1\_last

LAS Dataset: las\_waimea\_a1\_last.lasd

Z Range: 191.610000, 1978.530000

LAS Files: 204

Surface Constraints: 0

LAS points: 101,183,559

Classification code statistics:

0 Never Classified: 101,183,559

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_5N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -153.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

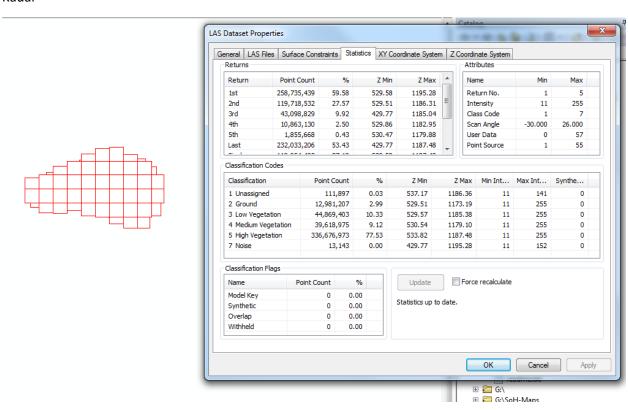
Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree

#### Kauai



Folder: F:\Kauai\las\_dnlr\_2017

LAS Dataset: las\_dlnr\_2017.lasd

Z Range: 429.770000, 1195.280000

LAS Files: 49

Surface Constraints: 0

LAS points: 434,271,598

#### Classification code statistics:

1 Unassigned: 111,897

2 Ground: 12,981,207

3 Low Vegetation: 44,869,403

4 Medium Vegetation: 39,618,975

5 High Vegetation: 336,676,973

7 Noise: 13,143

Projected Coordinate System: NAD\_1983\_HARN\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

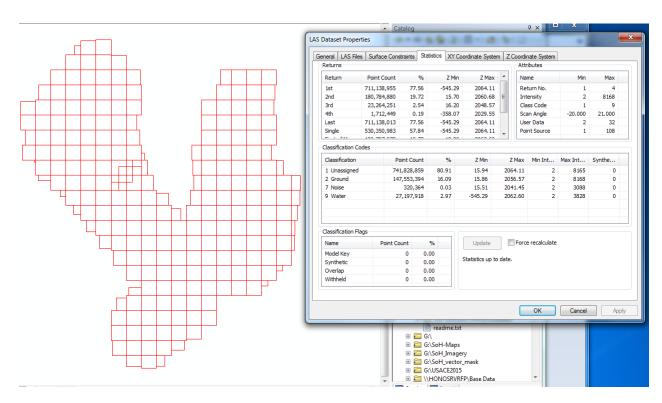
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0



Folder: F:\Kauai\las\_HI09\_kauai

LAS Dataset: las\_HI09\_kauai.lasd

Z Range: -545.290000, 2064.110000

LAS Files: 244

Surface Constraints: 0

LAS points: 916,900,535

#### Classification code statistics:

1 Unassigned: 741,828,859

2 Ground: 147,553,394

7 Noise: 320,364

9 Water: 27,197,918

Projected Coordinate System: WGS\_1984\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

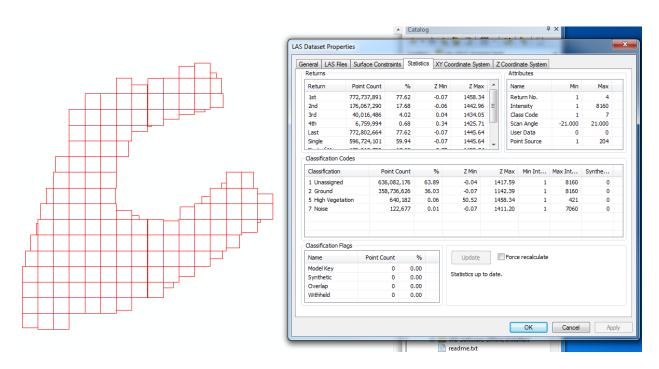
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_WGS\_1984

Datum: D\_WGS\_1984

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Kauai\las\_HI13\_huppert

LAS Dataset: las\_HI13\_Huppert.lasd

Z Range: -0.070000, 1458.340000

LAS Files: 146

Surface Constraints: 0

LAS points: 995,581,661

Classification code statistics:

1 Unassigned: 636,082,176

2 Ground: 358,736,626

5 High Vegetation: 640,182

7 Noise: 122,677

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

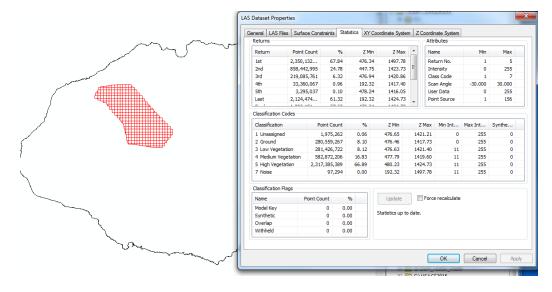
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0



Folder: F:\Kauai\las\_DOFAW\_2017\_l1

LAS Dataset: las\_DOFAW\_2017\_l1.lasd

Z Range: 192.320000, 1497.780000

LAS Files: 365

Surface Constraints: 0

LAS points: 3,464,316,140

#### Classification code statistics:

1 Unassigned: 1,975,262

2 Ground: 280,559,267

3 Low Vegetation: 281,426,722

4 Medium Vegetation: 582,872,206

5 High Vegetation: 2,317,385,389

7 Noise: 97,294

Projected Coordinate System: NAD\_1983\_HARN\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

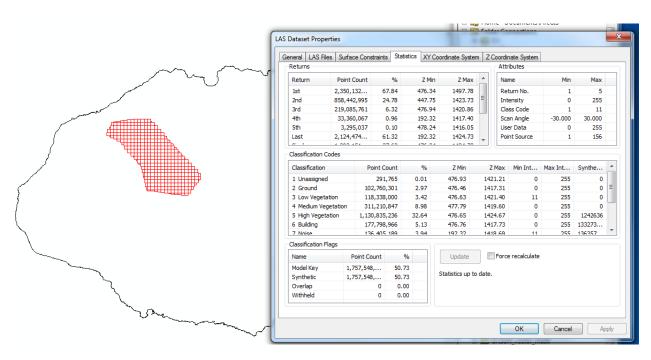
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Kauai\las\_DOFAW\_2017\_l2

LAS Dataset: las\_DOFAW\_2017\_l2.lasd

Z Range: 192.320000, 1497.780000

LAS Files: 365

Surface Constraints: 0

LAS points: 3,464,316,140

#### Classification code statistics:

1 Unassigned: 291,765

2 Ground: 102,760,301

3 Low Vegetation: 118,338,000

4 Medium Vegetation: 311,210,847

5 High Vegetation: 1,130,835,236

6 Building: 177,798,966

7 Noise: 136,405,189

8 Model Key/Reserved: 298,270,640

9 Water: 1,188,353,708

11 Road Surface: 51,488

Projected Coordinate System: NAD\_1983\_HARN\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

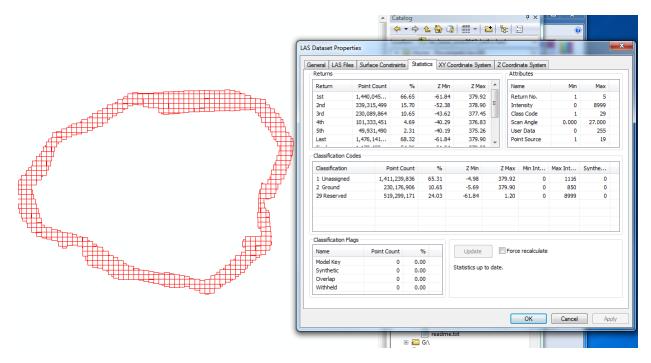
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0



Folder: F:\Kauai\las\_kauai\_acoe2013\_bathy

LAS Dataset: las\_kauai\_acoe2013\_bathy.lasd

Z Range: -61.840000, 379.920000

LAS Files: 568

Surface Constraints: 0

LAS points: 2,160,715,913

#### Classification code statistics:

1 Unassigned: 1,411,239,836

2 Ground: 230,176,906

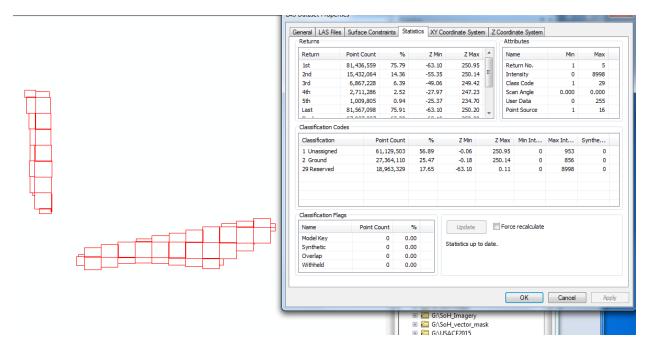
29 Reserved: 519,299,171

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

#### Lanai



Data Type: LAS Dataset

Folder: F:\Lanai\las\_acoe2013\_bathy

LAS Dataset: las\_lanai\_acoe2013\_bathy.lasd

Z Range: -63.100000, 250.950000

LAS Files: 56

Surface Constraints: 0

LAS points: 107,456,942

#### Classification code statistics:

1 Unassigned: 61,129,503

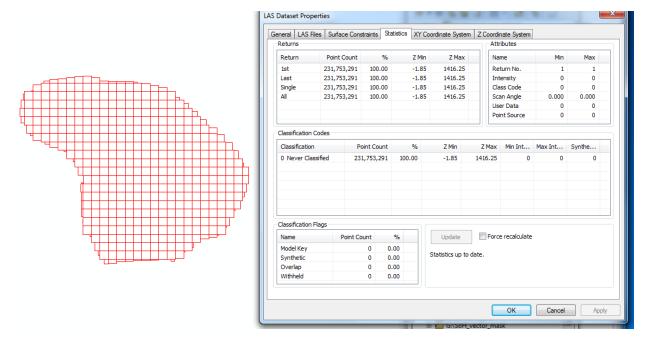
2 Ground: 27,364,110

29 Reserved: 18,963,329

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0



Folder: F:\Lanai\las\_lanai\_a1

LAS Dataset: las\_lanai\_a1\_ground.lasd

Z Range: -1.850000, 1416.250000

LAS Files: 441

Surface Constraints: 0

LAS points: 231,753,291

#### Classification code statistics:

0 Never Classified: 231,753,291

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

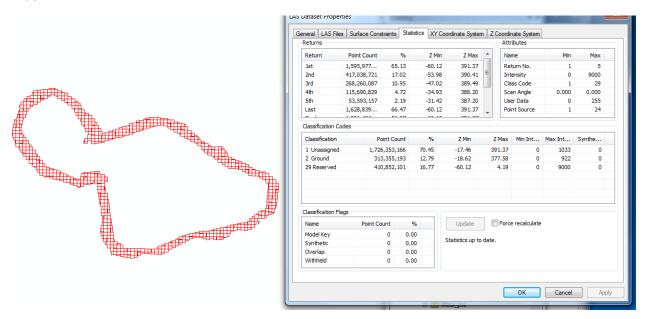
Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree

#### Maui



Data Type: LAS Dataset

Folder: F:\Maui\las\_maui\_acoe2013

LAS Dataset: las\_maui\_acoe2013bathy.lasd

Z Range: -60.120000, 391.370000

LAS Files: 745

Surface Constraints: 0

LAS points: 2,450,560,460

Classification code statistics:

1 Unassigned: 1,726,353,166

2 Ground: 313,355,193

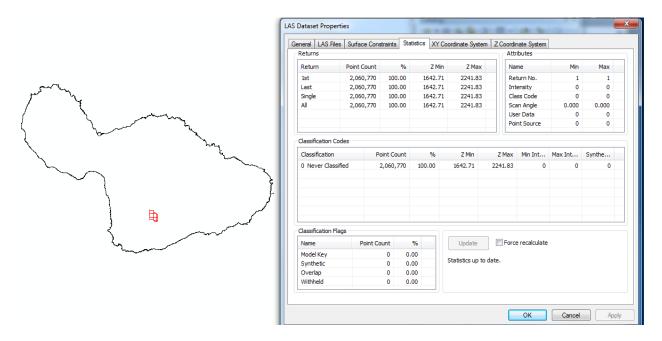
29 Reserved: 410,852,101

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Maui\las\_maui\_femaArea\_baldlast

LAS Dataset: las\_maui\_femaArea\_baldlast.lasd

Z Range: 1642.710000, 2241.830000

LAS Files: 15

Surface Constraints: 0

LAS points: 2,060,770

#### Classification code statistics:

0 Never Classified: 2,060,770

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

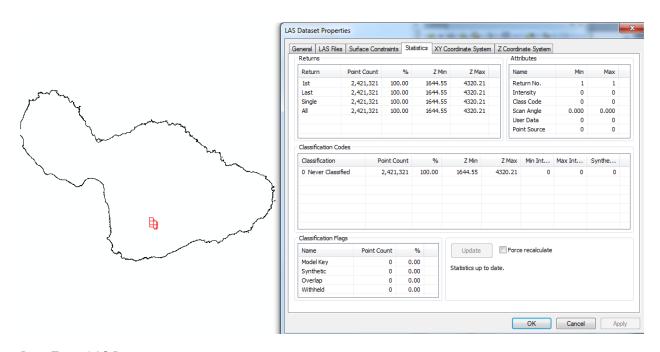
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Maui\las\_maui\_femaArea\_extractlast

LAS Dataset: las\_maui\_femaArea\_exrtactlast.lasd

Z Range: 1644.550000, 4320.210000

LAS Files: 15

Surface Constraints: 0

LAS points: 2,421,321

Classification code statistics:

0 Never Classified: 2,421,321

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

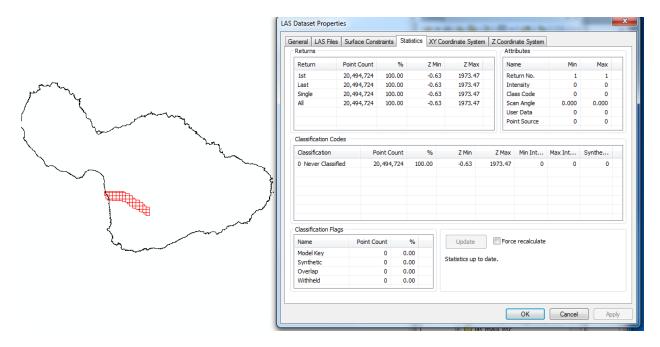
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0



Folder: F:\Maui\las\_maui\_femafema\_bald

LAS Dataset: las\_maui\_femafema\_bald.lasd

Z Range: -0.630000, 1973.470000

LAS Files: 53

Surface Constraints: 0

LAS points: 20,494,724

Classification code statistics:

0 Never Classified: 20,494,724

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

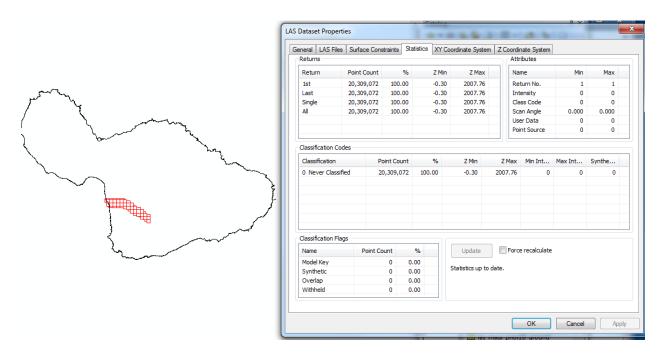
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Maui\las\_maui\_femafema\_extract

LAS Dataset: las\_maui\_femafema\_extract.lasd

Z Range: -0.300000, 2007.760000

LAS Files: 53

Surface Constraints: 0

LAS points: 20,309,072

Classification code statistics:

0 Never Classified: 20,309,072

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

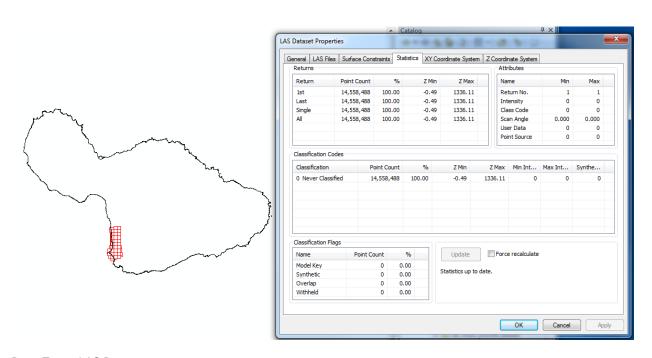
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

 $Folder: \ F: \ \ Maui \ \ las\_maui\_prior 1A\_extract$ 

LAS Dataset: las\_maui\_prior1A\_extract.lasd

Z Range: -0.490000, 1336.110000

LAS Files: 50

Surface Constraints: 0

LAS points: 14,558,488

Classification code statistics:

0 Never Classified: 14,558,488

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

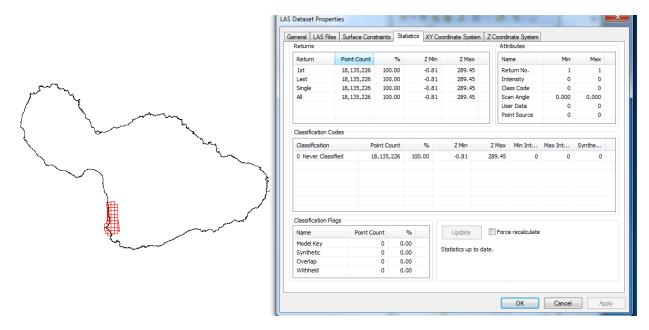
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Folder: F:\Maui\las\_maui\_prior1A\_ground

LAS Dataset: las\_maui\_prior1A\_ground.lasd

Z Range: -0.810000, 289.450000

LAS Files: 49

Surface Constraints: 0

LAS points: 18,135,226

Classification code statistics:

0 Never Classified: 18,135,226

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

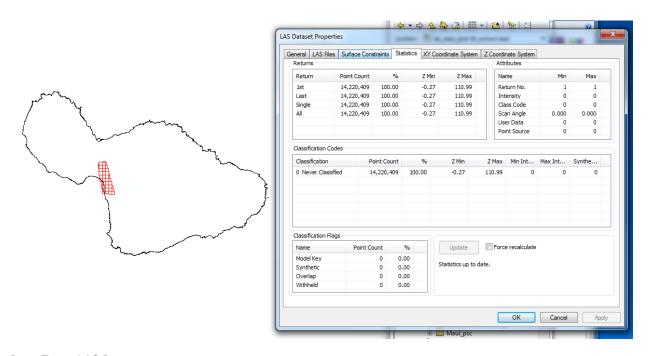
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

 $Folder: \ F: \ \ Maui \ \ las\_maui\_prior 1B\_extract$ 

LAS Dataset: las\_maui\_prior1B\_extract.lasd

Z Range: -0.270000, 110.990000

LAS Files: 43

Surface Constraints: 0

LAS points: 14,220,409

Classification code statistics:

0 Never Classified: 14,220,409

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

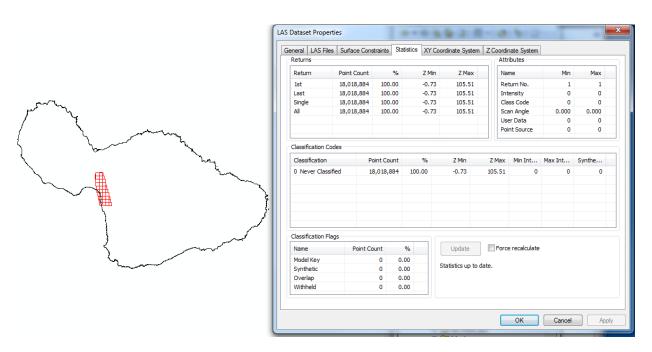
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Maui\las\_maui\_prior1B\_ground

LAS Dataset: las\_maui\_prior1b\_ground.lasd

Z Range: -0.730000, 105.510000

LAS Files: 43

Surface Constraints: 0

LAS points: 18,018,884

Classification code statistics:

0 Never Classified: 18,018,884

Projected Coordinate System: NAD\_1983\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

Latitude\_Of\_Origin: 0.00000000

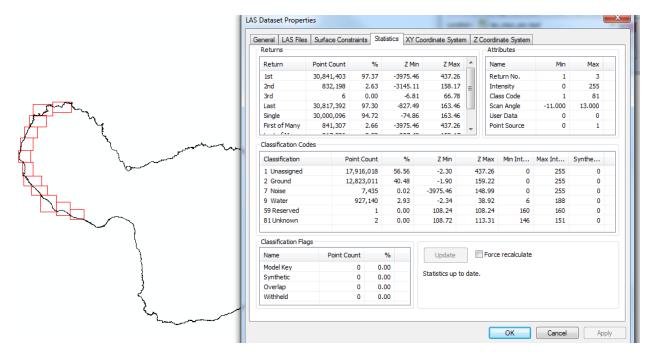
Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_North\_American\_1983

Datum: D\_North\_American\_1983

Prime Meridian: 0

Angular Unit: Degree



Folder: F:\Maui\las\_maui\_psc

LAS Dataset: las\_maui\_psc.lasd

Z Range: -3975.458000, 437.260000

LAS Files: 12

Surface Constraints: 0

LAS points: 31,673,607

### Classification code statistics:

1 Unassigned: 17,916,018

2 Ground: 12,823,011

7 Noise: 7,435

9 Water: 927,140

59 Reserved: 1

81 Unknown: 2

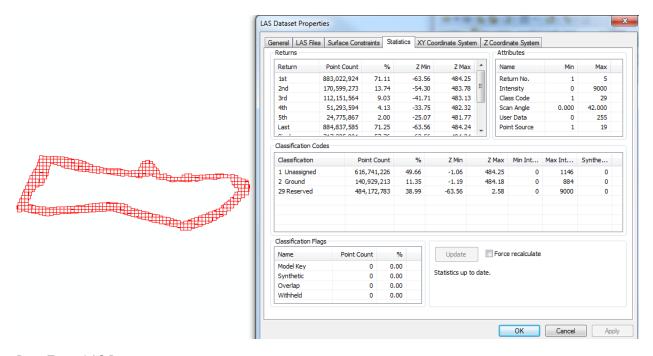
Geographic Coordinate System: GCS\_WGS\_1984

Datum: D\_WGS\_1984

Prime Meridian: 0

Angular Unit: Degree

### Molokai



Data Type: LAS Dataset

Folder: F:\Molokai\las\_molokai\_acoe2013bathy

LAS Dataset: las\_molokai\_acoe2013\_bathy.lasd

Z Range: -63.560000, 484.250000

LAS Files: 484

Surface Constraints: 0

LAS points: 1,241,843,222

# Classification code statistics:

1 Unassigned: 616,741,226

2 Ground: 140,929,213

29 Reserved: 484,172,783

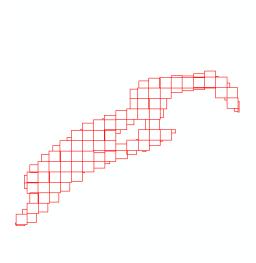
Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

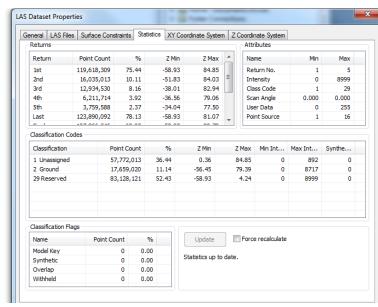
Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree

### Niihau





Data Type: LAS Dataset

Folder: F:\Niihau\las\_niihau\_acoebathy2013

LAS Dataset: las\_niihau\_acoe2013\_bathy.lasd

Z Range: -58.930000, 84.850000

LAS Files: 111

Surface Constraints: 0

LAS points: 158,559,154

Classification code statistics:

1 Unassigned: 57,772,013

2 Ground: 17,659,020

29 Reserved: 83,128,121

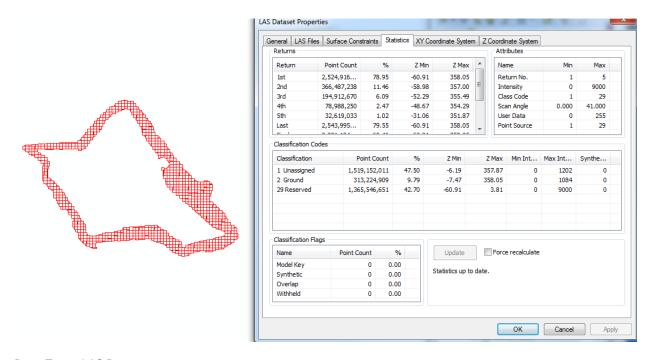
Geographic Coordinate System: GCS\_WGS\_1984

Datum: D\_WGS\_1984

Prime Meridian: 0

Angular Unit: Degree

# Oahu



Data Type: LAS Dataset

 $Folder: \ F: \ \ Oahu \ las\_oahu\_acoe 2013\_bathy$ 

LAS Dataset: las\_oahu\_acoe2013\_bathy.lasd

Z Range: -60.910000, 358.050000

LAS Files: 886

Surface Constraints: 0

LAS points: 3,197,923,571

Classification code statistics:

1 Unassigned: 1,519,152,011

2 Ground: 313,224,909

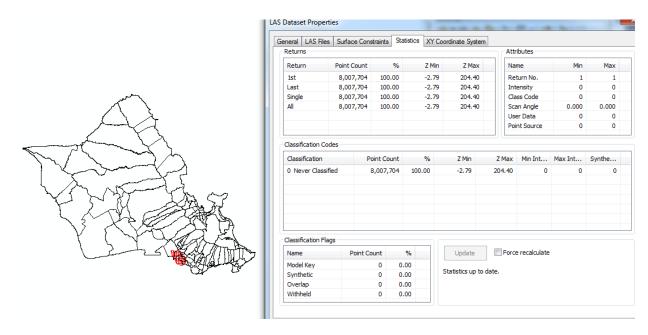
29 Reserved: 1,365,546,651

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_harbor\_first\_bare

LAS Dataset: las\_oahu\_harbor\_first\_bare.lasd

Z Range: -2.790000, 204.400000

LAS Files: 65

Surface Constraints: 0

LAS points: 8,007,704

### Classification code statistics:

0 Never Classified: 8,007,704

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

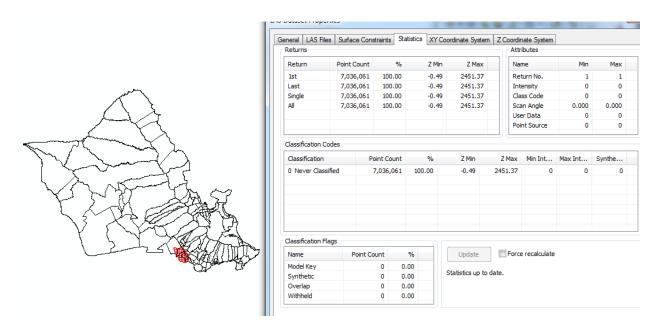
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_harbor\_first\_extract

LAS Dataset: las\_oahu\_harbor\_first\_extract.lasd

Z Range: -0.490000, 2451.370000

LAS Files: 65

Surface Constraints: 0

LAS points: 7,036,061

Classification code statistics:

0 Never Classified: 7,036,061

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

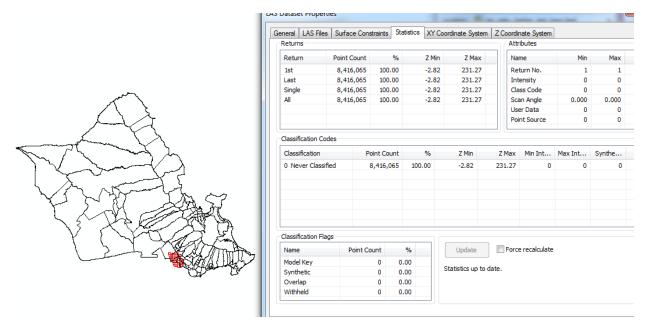
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Folder: F:\Oahu\las\_oahu\_harbor\_last\_bare

LAS Dataset: las\_oahu\_harbor\_last\_bare.lasd

Z Range: -2.820000, 231.270000

LAS Files: 65

Surface Constraints: 0

LAS points: 8,416,065

Classification code statistics:

0 Never Classified: 8,416,065

 $Projected\ Coordinate\ System:\ NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet$ 

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

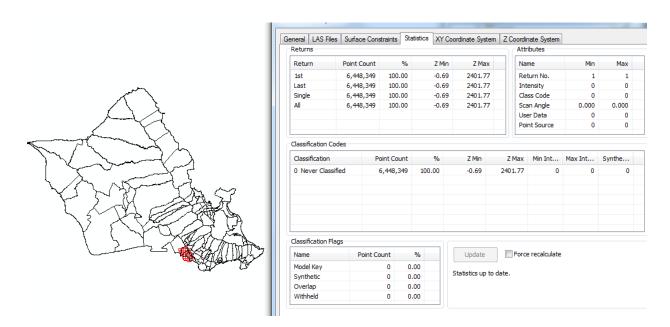
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_harbor\_last\_extract

LAS Dataset: las\_oahu\_harbor\_last\_extract.lasd

Z Range: -0.690000, 2401.770000

LAS Files: 62

Surface Constraints: 0

LAS points: 6,448,349

Classification code statistics:

0 Never Classified: 6,448,349

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

 $Projection: \ Transverse\_Mercator$ 

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

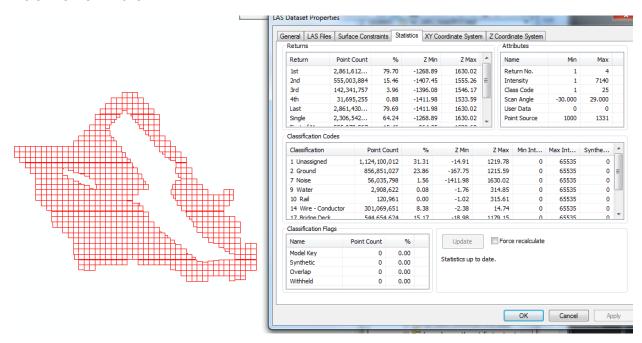
Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

Linear Unit: Foot\_US (0.304801)

#### LAS OAHU NOAA 2013



Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree

Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_noaa2013

LAS Dataset: las\_oahu\_noaa2013.lasd

Z Range: -1330.860000, 1630.020000

LAS Files: 485

Surface Constraints: 0

LAS points: 2,453,123,978

### Classification code statistics:

1 Unassigned: 771,792,787

2 Ground: 653,570,272

7 Noise: 30,936,597

9 Water: 1,694,061

10 Rail: 80,381

14 Wire - Conductor: 126,625,262

17 Bridge Deck: 377,698,651

18 High Noise: 460,336,894

25 Reserved: 30,389,073

Projected Coordinate System: NAD\_1983\_2011\_UTM\_Zone\_4N

Projection: Transverse\_Mercator

False\_Easting: 500000.00000000

False\_Northing: 0.00000000

Central\_Meridian: -159.00000000

Scale\_Factor: 0.99960000

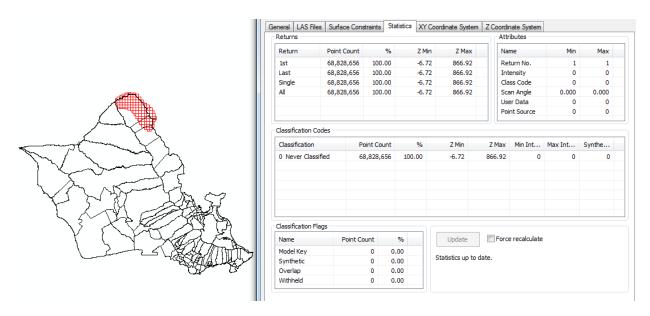
Latitude\_Of\_Origin: 0.00000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System: GCS\_NAD\_1983\_2011

Datum: D\_NAD\_1983\_2011

Prime Meridian: 0



Folder: F:\Oahu\las\_oahu\_northshore\_first\_extract

LAS Dataset: las\_oahu\_northshore\_first\_extract.lasd

Z Range: -6.720000, 866.920000

LAS Files: 129

Surface Constraints: 0

LAS points: 68,828,656

Classification code statistics:

0 Never Classified: 68,828,656

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

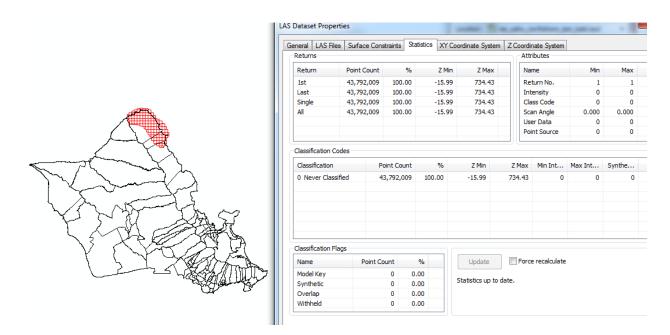
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_northshore\_last\_bald

LAS Dataset: las\_oahu\_northshore\_last\_bald.lasd

Z Range: -15.990000, 734.430000

LAS Files: 129

Surface Constraints: 0

LAS points: 43,792,009

Classification code statistics:

0 Never Classified: 43,792,009

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

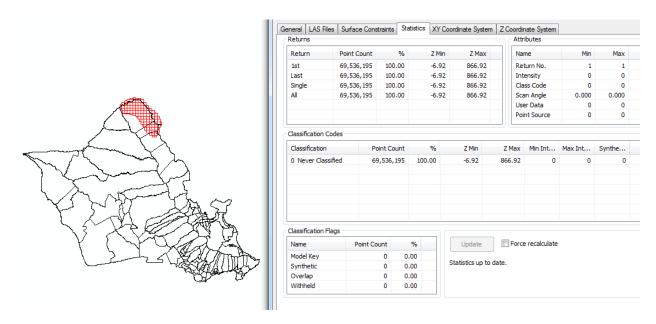
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_northshore\_last\_extract

LAS Dataset: las\_oahu\_northshore\_last\_extract.lasd

Z Range: -6.920000, 866.920000

LAS Files: 129

Surface Constraints: 0

LAS points: 69,536,195

Classification code statistics:

0 Never Classified: 69,536,195

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

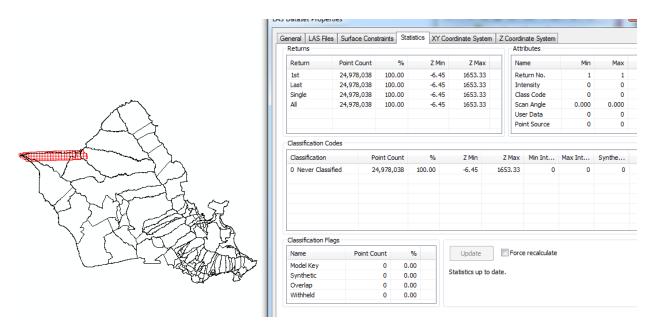
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Folder: F:\Oahu\las\_oahu\_northwest\_first\_bald

LAS Dataset: las\_oahu\_northwest\_first\_bald.lasd

Z Range: -6.450000, 1653.330000

LAS Files: 102

Surface Constraints: 0

LAS points: 24,978,038

## Classification code statistics:

0 Never Classified: 24,978,038

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

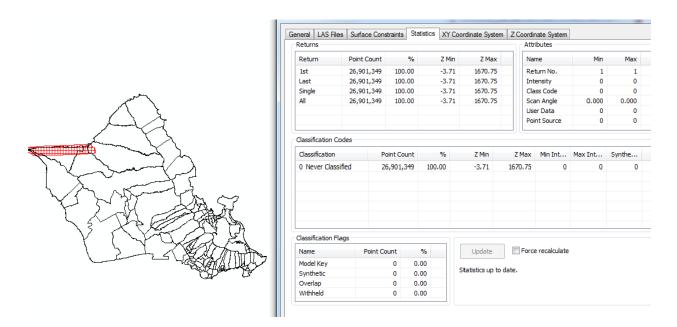
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_northwest\_first\_extract

 $LAS\ Dataset: las\_oahu\_northwest\_first\_extract.lasd$ 

Z Range: -3.710000, 1670.750000

LAS Files: 102

Surface Constraints: 0

LAS points: 26,901,349

Classification code statistics:

0 Never Classified: 26,901,349

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

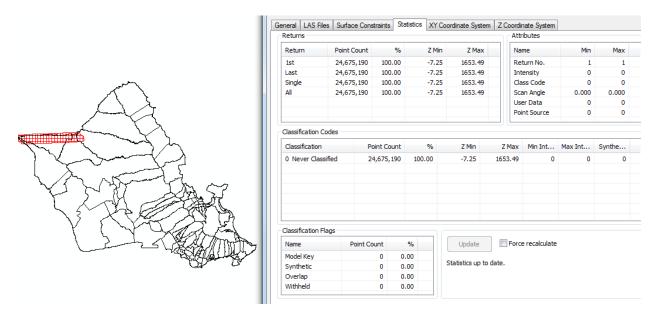
Linear Unit: Foot\_US (0.304801)

Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_northwest\_last\_bald

LAS Dataset: las\_oahu\_northwest\_last\_bald.lasd

Z Range: -7.250000, 1653.490000

LAS Files: 102

Surface Constraints: 0

LAS points: 24,675,190

Classification code statistics:

0 Never Classified: 24,675,190

Projected Coordinate System: NAD\_1983\_HARN\_StatePlane\_Hawaii\_3\_FIPS\_5103\_Feet

Projection: Transverse\_Mercator

False\_Easting: 1640416.66666667

False\_Northing: 0.00000000

Central\_Meridian: -158.00000000

Scale\_Factor: 0.99999000

Latitude\_Of\_Origin: 21.16666667

Linear Unit: Foot\_US (0.304801)

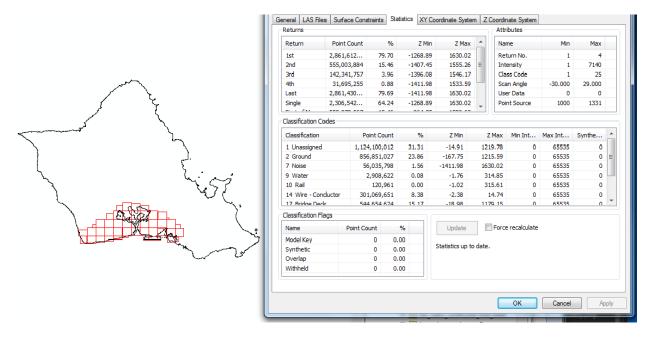
Geographic Coordinate System: GCS\_North\_American\_1983\_HARN

Datum: D\_North\_American\_1983\_HARN

Prime Meridian: 0

Angular Unit: Degree

LAS OAHU PSC



Folder: F:\Oahu\las\_oahu\_psc

LAS Dataset: las\_oahu\_psc.lasd

Z Range: -497.106000, 530.250000

LAS Files: 47

Surface Constraints: 0

LAS points: 100,533,243

### Classification code statistics:

1 Unassigned: 52,606,483

2 Ground: 45,043,886

7 Noise: 21,847

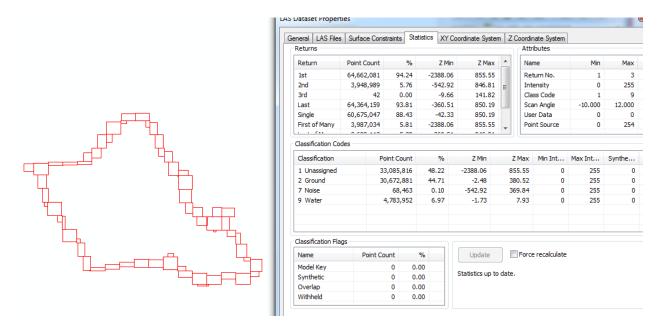
9 Water: 2,861,027

Geographic Coordinate System: GCS\_WGS\_1984

Datum: D\_WGS\_1984

Prime Meridian: 0

Angular Unit: Degree



Data Type: LAS Dataset

Folder: F:\Oahu\las\_oahu\_psc\_coastal

LAS Dataset: las\_oahu\_psc\_coastal.lasd

Z Range: -2388.062000, 855.547000

LAS Files: 63

Surface Constraints: 0

LAS points: 68,611,112

## Classification code statistics:

1 Unassigned: 33,085,816

2 Ground: 30,672,881

7 Noise: 68,463

9 Water: 4,783,952

Geographic Coordinate System: GCS\_WGS\_1984

Datum: D\_WGS\_1984

Prime Meridian: 0

Angular Unit: Degree