

# Classified Point Cloud

## Deliverable 1 Summary

| ✓ General         |                                                |                        |
|-------------------|------------------------------------------------|------------------------|
| Folder:           | F:\USGS_Hurricane_Joaquin_LiDAR\Classified_LAS |                        |
| Total # of Files: | 157                                            | (All Valid)            |
| Total File Size:  | 12.3 GB                                        | (13,257,865,678 bytes) |

| ✓ Tile Sizes       |                            |
|--------------------|----------------------------|
| Median Tile Size:  | 1,500m x 1,500m            |
| Minimum Tile Size: | 626m x 1,182m              |
| Maximum Tile Size: | 1,500m x 1,500m            |
| X Range:           | 462464.97m to 493499.99m   |
| Y Range:           | 4188000.00m to 4243499.98m |
| Elevation Range:   | -138.39m to 797.07m        |

| ✓ LAS Version And Point Record Formats |                  |
|----------------------------------------|------------------|
| v1.4, Point Record Format 6            | 157 of 157 Tiles |

| ✓ Spatial Reference System |                              |                  |
|----------------------------|------------------------------|------------------|
| Horizontal                 | UTM 18, NAD83 (2011), Meters | 157 of 157 Tiles |
| Vertical                   | NAVD88 - Geoid12B (Meter)    | 157 of 157 Tiles |
| Storage Method             | WKT                          | 157 of 157 Tiles |

| ✓ GPS Time Type |                  |
|-----------------|------------------|
| Adjusted        | 157 of 157 Tiles |

| ✓ File Source ID Equals 0 |                  |
|---------------------------|------------------|
| Yes                       | 157 of 157 Tiles |

| ✓ VLR/EVLR Reserved Equals 0 |                    |
|------------------------------|--------------------|
| Yes                          | 471 of 471 Records |

| ✓ System Identifier |                  |
|---------------------|------------------|
| Quantum Spatial     | 157 of 157 Tiles |

| ✓ Generating Software |                  |
|-----------------------|------------------|
| LiDAR Suite           | 157 of 157 Tiles |

| Point Classifications |        |                    |
|-----------------------|--------|--------------------|
| Class 1               | 19.18% | 84,781,146 Points  |
| Class 2               | 45.91% | 202,881,194 Points |
| Class 7               | 0.08%  | 356,133 Points     |
| Class 9               | 34.61% | 152,943,758 Points |
| Class 10              | 0.21%  | 946,255 Points     |
| Class 17              | 0.00%  | 13,139 Points      |
| Class 18              | 0.00%  | 1,244 Points       |

# Classified Point Cloud Continued...

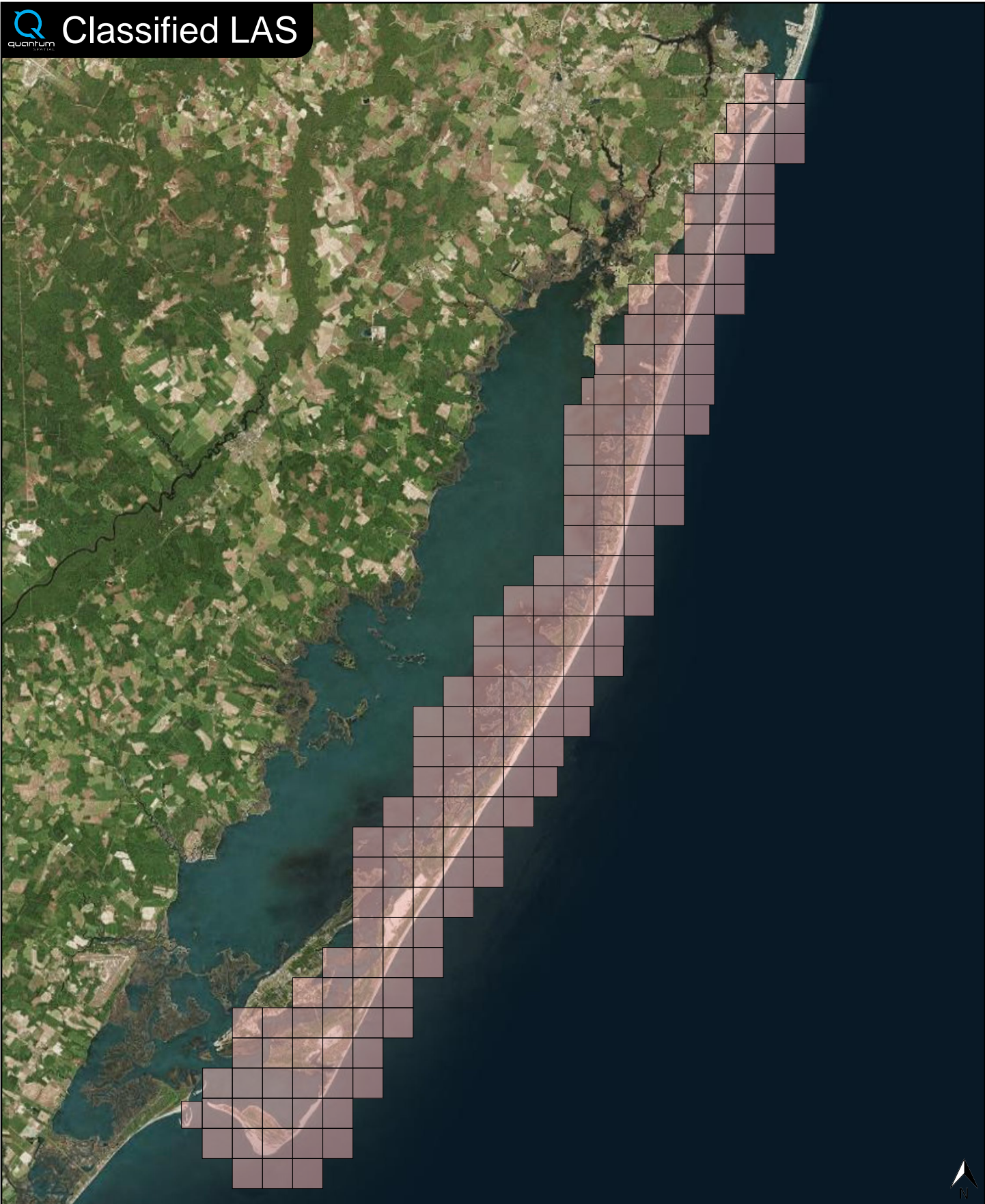
Deliverable 1 Summary

## ✓ Point Statistics

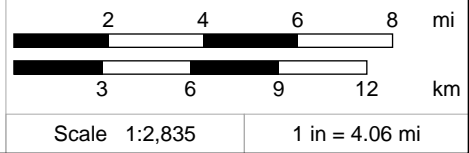
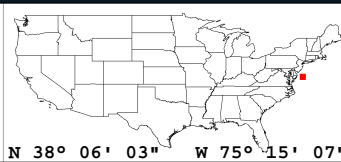
|             |                       |
|-------------|-----------------------|
| Scan Angle: | -27 to 26             |
| Intensity:  | 0 to 65535            |
| First Date: | 11/26/2015 6:50:22 PM |
| Last Date:  | 11/26/2015 8:33:27 PM |



# Classified LAS



Classified LAS Tiles (157)



# Raw LAS Flight Line Strips

## Deliverable 2 Summary

|                                               |                                                                              |                        |
|-----------------------------------------------|------------------------------------------------------------------------------|------------------------|
| ✓ <b>General</b>                              |                                                                              |                        |
| Folder:                                       | F:\USGS_Hurricane_Joaquin_LiDAR\Unclassified_Calibrated_Flightline_Swath_LAS |                        |
| Total # of Files:                             | 8                                                                            | (All Valid)            |
| Total File Size:                              | 12.9 GB                                                                      | (13,865,000,222 bytes) |
| ✓ <b>Raw LAS Strips</b>                       |                                                                              |                        |
| Elevation Range:                              | -138m to 797m                                                                |                        |
| ✓ <b>LAS Version And Point Record Formats</b> |                                                                              |                        |
| v1.4, Point Record Format 6                   |                                                                              | 8 of 8 Tiles           |
| ✓ <b>Spatial Reference System</b>             |                                                                              |                        |
| Horizontal                                    | UTM 18, NAD83 (2011), Meters                                                 | 8 of 8 Tiles           |
| Vertical                                      | NAVD88 - Geoid12B (Meter)                                                    | 8 of 8 Tiles           |
| Storage Method                                | WKT                                                                          | 8 of 8 Tiles           |
| ✓ <b>GPS Time Type</b>                        |                                                                              |                        |
| Adjusted                                      |                                                                              | 8 of 8 Tiles           |
| ✓ <b>File Source IDs</b>                      |                                                                              |                        |
| Equals Zero:                                  | None                                                                         |                        |
| All Unique:                                   | Yes                                                                          |                        |
| FLs:                                          | 100 - 106, 900                                                               |                        |
| ✓ <b>VLR/EVLR Reserved Equals 0</b>           |                                                                              |                        |
| Yes                                           |                                                                              | 24 of 24 Records       |
| ✓ <b>System Identifier</b>                    |                                                                              |                        |
| Quantum Spatial                               |                                                                              | 8 of 8 Tiles           |
| ✓ <b>Generating Software</b>                  |                                                                              |                        |
| LiDAR Suite                                   |                                                                              | 8 of 8 Tiles           |

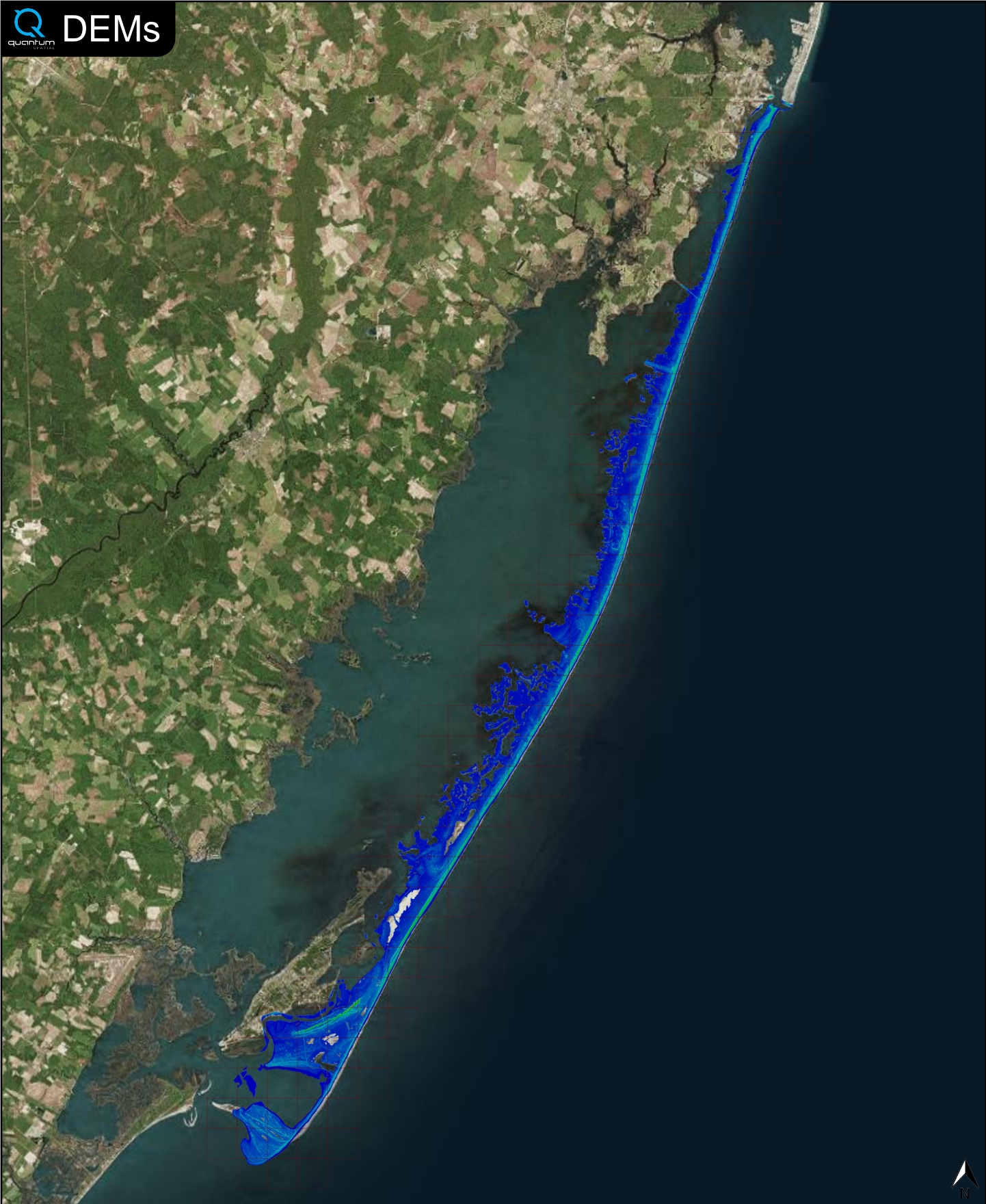
| ✓ General         |                                            |                       |
|-------------------|--------------------------------------------|-----------------------|
| Folder:           | F:\USGS_Hurricane_Joaquin_LiDAR\Raster_DEM |                       |
| Total # of Files: | 157                                        | (All Valid)           |
| Total File Size:  | 1.4 GB                                     | (1,484,159,724 bytes) |

| ✓ Tile Sizes       |                            |  |
|--------------------|----------------------------|--|
| Median Tile Size:  | 1,500m x 1,500m            |  |
| Minimum Tile Size: | 1,500m x 1,500m            |  |
| Maximum Tile Size: | 1,500m x 1,500m            |  |
| X Range:           | 462000.00m to 493500.00m   |  |
| Y Range:           | 4188000.00m to 4243500.00m |  |
| Elevation Range:   | -1.18m to 15.62m           |  |

| ✓ Spatial Reference System |                              |                  |
|----------------------------|------------------------------|------------------|
| Horizontal                 | UTM 18, NAD83 (2011), Meters | 157 of 157 Tiles |
| Vertical                   | NAVD 1988                    | 157 of 157 Tiles |

| ✓ Raster            |                       |            |
|---------------------|-----------------------|------------|
| File Type:          | IMG                   | 157 of 157 |
| Bands:              | 1                     | 157 of 157 |
| Grid Size (pixels): | 1500 x 1500           | 157 of 157 |
| Pixel Resolution:   | 1.00m x 1.00m         | 157 of 157 |
| Pixel Type:         | 32-bit Floating Point | 157 of 157 |
| Compression:        | None                  | 157 of 157 |
| No Data Value:      | -32767                | 157 of 157 |





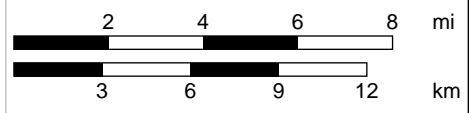
-1.12 m

6.13 m

13.38 m



N 38° 06' 03" W 75° 15' 16"



Scale 1:2,835

1 in = 4.06 mi



| ✓ General         |                                                  |                     |
|-------------------|--------------------------------------------------|---------------------|
| Folder:           | F:\USGS_Hurricane_Joaquin_LiDAR\Intensity_Images |                     |
| Total # of Files: | 157                                              | (All Valid)         |
| Total File Size:  | 481.2 MB                                         | (504,574,450 bytes) |

| ✓ Tile Sizes       |                            |
|--------------------|----------------------------|
| Median Tile Size:  | 1,500m x 1,500m            |
| Minimum Tile Size: | 1,500m x 1,500m            |
| Maximum Tile Size: | 1,500m x 1,500m            |
| X Range:           | 462000.00m to 493500.00m   |
| Y Range:           | 4188000.00m to 4243500.00m |

| ✓ Spatial Reference System |                              |                  |
|----------------------------|------------------------------|------------------|
| Horizontal                 | UTM 18, NAD83 (2011), Meters | 157 of 157 Tiles |
| Vertical                   | NAVD 1988                    | 157 of 157 Tiles |

| ✓ Raster            |                                     |            |
|---------------------|-------------------------------------|------------|
| File Type:          | TIF                                 | 157 of 157 |
| Bands:              | 1                                   | 157 of 157 |
| Grid Size (pixels): | 1500 x 1500                         | 157 of 157 |
| Pixel Resolution:   | 1.00m x 1.00m                       | 157 of 157 |
| Pixel Type:         | 8-bit Unsigned Integer (MINISBLACK) | 157 of 157 |
| Compression:        | NONE                                | 157 of 157 |
| No Data Value:      | NONE                                | 157 of 157 |



