



## Summary of IAGT Terrain Product Offerings

### Core Terrain Products

- DEM
  - Bare Earth ESRI Terrain in ArcGIS 9.2 File Geodatabase or Enterprise Geodatabase format
  - Bare Earth points in ESRI Multi-point format
  - Breaklines – hard breaklines for water feature boundaries will be incorporated for water features larger than five acres. To the extent possible, we will endeavor to include smaller water bodies. A single elevation attribute will be obtained from the lidar data and assigned to each water body feature. Additional breakline features for hydro-enforcement and/or planimetric mapping will be included if data is available.
  - Bare earth Digital Elevation Model (DEM) in ESRI GRID format - 10 foot grid cell size unless otherwise specified. Voids due to building and vegetation removal will result in interpolated elevation values for cells that do not contain any point measurements.
- DSM
  - “First surface” Digital Surface Model (DSM) in ESRI GRID format. This first surface is represented by both bare ground in open terrain, as well as the tops of trees and buildings in areas with significant non-ground features. Use caution when interpreting DSM data as some features may appear solid.
- Contour Data
  - Tiled\* 2 foot contours in ESRI Polyline Feature Class format. Tiling schema to be provided by the customer. Output data will be seamless and free of edge effects. Elevation attributes for each line with identification of 10ft, 20ft, and 50ft index contours. Steep terrain and voids may result in localized degradation of accuracy in representing the true bare earth surface.

### Additional Terrain Products:

- Breaklines
  - 2-D and 3-D Hydrographic, Planimetric, and Slope breaklines
  - Collection wide ESRI Polyline Feature Class format
- Void Area Mapping
  - Collection wide ESRI Polygon Feature Class format
  - Areas larger than 2 times the targeted post spacing containing no ground points will be represented.
- Percent Slope GRID
  - Collection wide ESRI Raster GRID
  - Same schema as the DEM with slope attribute
- Intensity GRID
  - Collection wide ESRI Raster GRID
  - Same schema as the DEM with Intensity attribute

### Feature Extraction Products:

- Building Footprints
  - Collection wide ESRI Polygon Feature Class format
- Forested Areas
  - Collection wide ESRI Polygon Feature Class format

### FEMA Quality Control and Accuracy Assessment

- Quality Control
  - FEMA compliant independent Quality Control Report
- Accuracy Assessment
  - FEMA compliant independent Accuracy Assessment Report

### 3-D Visualizations

- Skyline Visualization files (\*.mpt, \*.sky)
- Unlimited Skyline TerraExplorer Software Licenses
- Additional Software Licenses (upgraded) as required
- 1 Year Web Hosting