

Status Report: Goshen County, Wyoming LiDAR Collection
Through: November 30, 2016

Quick Facts:

- Approximately 2,200 square miles
- Collection and derived products to adhere to FEMA and USGS/3DEP requirements
 - Quality Level 2
 - ≤ 0.71 Aggregate Nominal Pulse Spacing (m)
 - ≥ 2.0 Aggregate Nominal Pulse Density (pls/m²)
 - ≤ 19.6 Nonvegetated Vertical Accuracy (NVA) (cm)
 - ≤ 29.4 Vegetated Vertical Accuracy (VVA) (cm)
 - Deliverables
 - Raw Point Cloud
 - Classified Point Cloud
 - Hydro-flattening breaklines
 - Hydro-flattened DEM
 - Spatial files
 - Project Area (Goshen County)
 - Buffered Project Area (100-meter buffer)
 - Tile Index
 - Survey Points
 - FEMA Technical Reference data
 - Reporting/Metadata
- MIP Case number currently being developed by TOM and RPML

Task Updates through November:

- Finalized ground control and QC checkpoint survey
- Completed LiDAR flights
 - 14 total lifts
 - Some reflights performed on November 1st due to cloud interference indicated in acquisition QC
- Collected data confirmed to fill extent of buffered project area (100-meter buffer of County boundary)
- Spot checks of raw points indicated flight plan meets nominal pulse spacing and density requirements
- Minimal concern with crop interference at time of collection
 - Flight plan and timing of collection perceived to mitigate significant crop coverage
 - Some risk to small areas yet to be harvested but LiDAR processing technicians confident ground penetrating returns in those areas will be sufficient
- Only weather impact during collection were clouds that necessitated a small amount of reflight
 - Collection completed prior to winter storm Argos moving through the project area
- Boresighting effort to align raw swath data nearly complete
 - LiDAR technicians using ground control points to tie data to project coordinate system and datums

Stakeholder Engagement:

- PM and Survey team liaised with Shelly Kirchhefer and the Goshen County Sheriff's office in advance of collecting ground control and QC checkpoints throughout the County

Plans for December:

- Finalize boresight
- Prepare unclassified swath-based point cloud for independent QA/QC
- Begin processing classified point cloud
- Plan activities for Independent QA/QC of unclassified point cloud product

Risks:

- None at this time

