

QUIZ#11: Spruce Seedling Height Growth By Density Class

Download and unzip the geodatabase **quiz11_LIDAR2018.gdb** from the website:
http://dverbyla.net/nrm435/quiz_data_2018/

The unzipped file contains the following GIS layers:

- Plantations
 - Density
 - High
 - Medium
 - Low
- ortho_photo.tif
- last_return.tif
 - Value
 - High : 253.95
 - Low : 203.58
- first_return.tif
 - Value
 - High : 246.75
 - Low : 203.44

Where plantations are tree white spruce plantations were planted in 1985 at three different stocking densities, and first and last return are LIDAR elevation estimates in meters. Is spruce height growth affected by the planting density?



Each spruce is now at least 1 meter in height. For all pixels **at least 1 meter in canopy height** inside each plantation polygon, determine the mean and standard deviation of heights.

Create a **sorted** dbf table (**use Sort geoprocessing tool**) containing the following information:

Polygon ID	Density	Count of Pixels > 1 meter in height	Mean Height	Std. Dev. Height
68	Low			
69	Medium			
67	High			

Email me your .mpk map package file.

All geoprocessing output needs to be stored in *quiz11_LIDAR2018.gdb* geodatabase.

Save your work. Then create a map package: File→Share As→ Map Package...Save package to file (**do NOT check on Enterprise**)

Include Enterprise Geodatabase data instead of referencing the data

Also share your map package to a folder location.

Email me (dverbyla@alaska.edu) your map package **mpk** file. (not your arcmap document .mxd file) as an attachment (extensions are hidden by default)