

FOR 274 Assignment 8: Log Scaling and Volume

This assignment should be completed and handed in at the start of the next lab.

Credit: This Assignment is worth 20 points

Task 1: Use what you have learned in class to answer the following questions:

1. Calculate the volume in standard cords for the following stacks of wood [5pts]:

- a. 20 ft x 80 ft x 4 ft
- b. 12 ft x 32 ft x 5 ft
- c. 16 ft x 32 ft x 10 ft
- d. 50 ft x 80 ft x 10 ft
- e. 20 ft x 20 ft x 4 ft

2. Compute the total volume and value (in \$) for these lumber items [10 pts]:

- a. 214 pieces: 3 in x 6in x 18ft @ \$230 per MBF

- b. 340 pieces: 2 in x 10 in x 20ft @348 per MBF

3. Calculate the volume in cubic feet for the following log according to both Huber's and Newton's formulas [5pts]: Inside bark: small-end diameter = 6 in, midpoint diameter = 8 in, large-end diameter = 12 in, length = 20 feet