## WDSC 422 Homework – Assignment 2 Machine Rate Applications

**Harvesting Forest Products** 

## <u>Due</u>

Calculate the cost per hour (\$/SMH and \$/PMH) for each of the following machines:

## (1) Timbco 425D feller-buncher

purchase price: \$115,000 salvage value: 20% economic life: 4 years

interest: 12% insurance: 7% taxes: 2%

fuel usage: 3.15 gal/PMH lube usage: 1.93 qt/PMH

fuel cost: 0.88/gal lube cost: 1.30/qt M&R: 80%

Wages: 6.5/SMH fringes: 38% utilization: 75%

## (2) John Deere 540B grapple skidder

purchase price: \$95,000 salvage value: 20% economic life: 5 years

interest: 12% insurance: 7% taxes: 2%

fuel usage: 3.38 gal/PMH lube usage: 0.93 qt/PMH

fuel cost: 0.88/gal lube cost: 1.30/qt

M&R: 90%

Wages: 6.5/SMH fringes: 38% utilization: 68%