

FSTY 405. Assignment 2 — TIPSy

Name

Use the WinTIPSy 4.1 program on the UNBC students network, or download and install it in your computer (see <http://www.for.gov.bc.ca/hre/software/tipsy.htm>).

Apart from TIPSy and its *Help* system, you should become familiar with the information at <http://www.for.gov.bc.ca/hre/gymodels>.

TIPSy uses tables generated by and

We will use TIPSy to perform simulations similar to those in Lab 2. Calculate the site index to be used as $15 + .y$, where y are the last two digits of your student number. Site index :

What is new in Version 4.1 relative to 3.2?

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Species: Interior white spruce. Forest Region: Prince George. Forest District: Prince George. Use default settings when no other information is given.

Question: What difference does it make specifying Prince George as Region or District, what is this information used for?

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Simulate unthinned stands planted at 800, 1400, and 2500 sph. Use 10-year steps for output, up to 200 years. Find the maximum MAI and its age (“TIPSY age”) for the following yields:

SPH	800		1400		2500		
	MAI	Age	MAI	Age	MAI	Age	MAI units
Total vol. 0.0+							
Total vol. 7.5+							
Merchant. 27.5+							
Total lumber							

Circle the MAI of the most productive spacing for each product. Explain the different kind of merchantability limits used in this table:

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What is ”TIPSY age”?

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What are the options for timing of thinning in white spruce available in TIPSY?

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Perform an economic analysis for these 3 spacings, with and without a pre-commercial thinning. Use a discount rate of 4%, and the default costs and revenues. Note: If you change the initial density, you may have to deselect and select again PCT to get the correct default thinning intensity. The best site values and rotation ages are:

SPH	800		1400		2500	
	S.V.	Age	S.V.	Age	S.V.	Age
Unthinned						
Thinned						

Circle the entry for the best alternative according to this criterion. What is *Site Value*?

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In TIPSYS, what is and how does it work:

a) OAF

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b) Genetic gain

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c) Fertilization

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