

## Workbook Exercises \*

### *Module 11: Roads and Trails: Planning it Right from the Start*

**\* Please note that there is now a \$20 testing fee to receive a certificate for each module. If you would like to receive a certificate for completing this module, please send a cheque or money order (payable to the Minister of Finance) along with the completed quiz or workbook to Nova Scotia Department of Natural Resources Extension Services Division P.O. Box 698 Halifax, NS B3J 2T9**

Name: \_\_\_\_\_ Telephone: \_\_\_\_\_  
Address: \_\_\_\_\_ E-mail: \_\_\_\_\_

*Exercise 1: Check off your immediate objectives for upgrading or building your new road or trail. "Other" objectives might include preserving an old historic trail or coach road that crosses your property.*

- \_\_\_ *Harvesting sawlogs*
- \_\_\_ *Harvesting pulpwood*
- \_\_\_ *Harvesting fire wood*
- \_\_\_ *Christmas tree production*
- \_\_\_ *Maple syrup production*
- \_\_\_ *Maintaining boundary lines*
- \_\_\_ *Recreation*
- \_\_\_ *(Describe \_\_\_\_\_)*
- \_\_\_ *Access to specific sites*
- \_\_\_ *(Describe \_\_\_\_\_)*
- \_\_\_ *Other \_\_\_\_\_*

*Exercise 2: First, make a few copies of your woodlot map including the immediate area around it. Using your collection of maps and aerial photos, draw in pencil all existing roads and trails on your woodlot. Draw in all stream and wetlands that you know of if not already on the map. Include usable routes as well as old ones. Then draw all public roads that cross or border your lot. Finally draw any roads on neighbouring woodlots that come near or up to your boundary. Some research on the ground and on the phone is recommended to make sure that you have up-to-date information.*

*Going back to your objectives in Lesson One, circle the area(s) that you want to reach.*

*Exercise 3: Looking at your map, consider each of these five factors as it relates to your woodlot. It may be necessary to get more information. Do these factors affect where your road will be located?*

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*Exercise 4: Mark any special or sensitive wildlife sites on your map. Try to avoid these sites as you locate your road. You may even decide to shorten your road or link with a neighbour or public road to reduce habitat loss.*

*Exercise 5: Review each of these features as they relate to the general location you selected for your road in the last lesson. Do they affect your location choice in any way? If so, you may need to find a new location that is a better compromise. Draw a possible road layout with these features in mind using the information on your map (contour lines etc) and your knowledge of the woodlot.*

*Exercise 6: After you flag the road, make a note of any changes to your road layout on your map.*

*Exercise 7: Below are three possible road and trail layouts for a large harvest using a skidder. Which one do you think is best? Why? Consider the various factors discussed so far such as locating roads and landings on high ground, skidding uphill, keeping roads and bridges to a minimum and efficient skidding distance.*

**Plan A: 2 bridges, 4 landings, 3 km of grub road**

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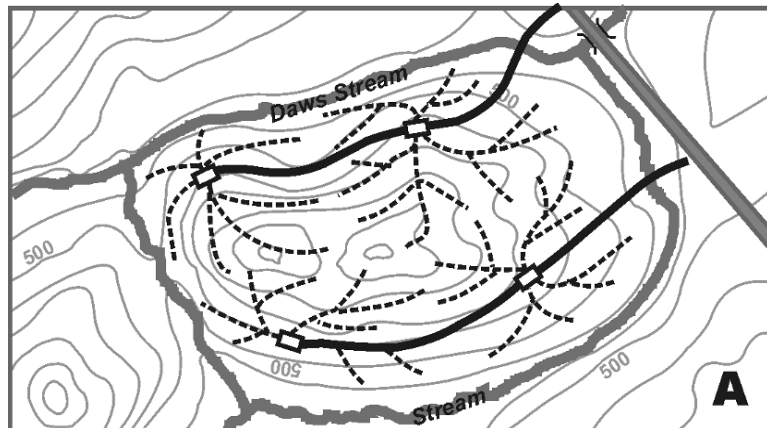
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27. Three road/trail layouts



**Plan B: 1 bridge, 3 landings, 3.5 km of grub road**

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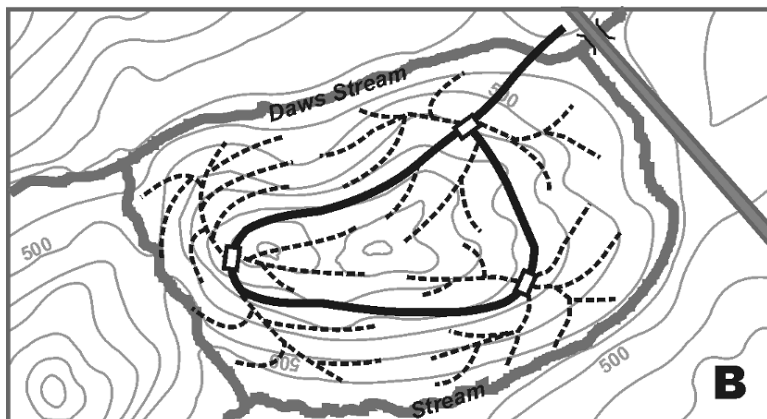
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**Plan C: 1 bridge, 2 landings, 2 km of grub road**

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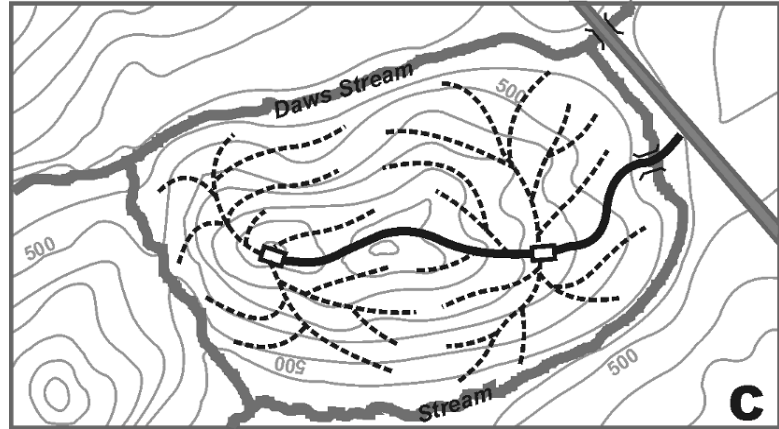
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*Exercise 8: Get out your map. It should include all existing and proposed roads on it. Mark in any existing trails. It should also have areas circled that you want to reach for harvesting, recreation and other access. Both immediate and future objectives should be included. Use this map to design your trail network. Grub roads for harvesting will be laid out ahead by the contractor. Extraction trails will be cut out at the time of harvesting.*

*You will need to answer the following: 1)Which of these trails can be used for your immediate objectives? 2)Which ones can be upgraded? 3)What new trails will be needed? 4)Can I lay out the trails for multiple use?*

\* If you wish to discuss the workbook exercises or your answers, please feel free to contact (902) 424-5444 or email [woodlot@gov.ns.ca](mailto:woodlot@gov.ns.ca) .