TCruise Template Setup and Editing

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Step #1 – Tract Information

Select Templates>Tract Information (or the Tract Info shortcut button) and then input any information, like Cruiser, that will pertain to each tract. The rest of the fields will be filled when you work up your cruise later.
Step #2 – Active Cruise Parameters

Select Templates>Active Cruise Parameters (or the Params shortcut button) and enter the following information:

Timber Cruise Method:
Plot, Point, Dbh Point, Stump Cruise

Default Species Code:
This is the code that will appear by default in your T-CruiseCE data input screen. If you are not sure what to enter, leave it at 1 and come back later.

Default Tree Product:
Set at AutoAssign – product assigned based upon DBH range – also can choose four other product size categories

Plot Size/BAF:
This in acres (i.e. 1/10^0 = 0.1, 1/20^0 = 0.05 acres) or BAF expansion for point cruises

Confidence %:
Set the confidence level desired for in-field and office stats

Dbh measurement precision:
Set at 0.1 inch, 1 inch or 2 inches

Pulpwood plot size, and activation:
May choose to activate with check mark, and choose appropriate plot type and size.

Form class calculation assumption:
Choose I.B for Form Class cruises or O.B. for Profile Function cruises.

NOTE: Other parameters on this page will be discussed under Specialty Cruises.

Step #3 – Species Groups

Next, to define the Species Groups, select Templates>Species Groups and then type in the species groups that you will report volumes on later.
Step #4 - Products by Group Names

Since each group does not have the same product classes, we need to customize our products based on the groups. Select Templates>Product by Group Name.

Products by Group Names

You will always have Default group codes in row 1. These will show up as the products in every Species Group where you do not enter something else. Note that you basically have 4 sets of 2 columns. The first column in each set is the Product name, while the second is the abbreviation that will appear on the handheld. In our Loblolly group we left the first product as the default (Pulpwood) but changed the Small ST name to Chipnsaw. We also changed the default code from SM to CNS. Do this for each group as outlined below. When finished press OK.
Step #5 - Group Specifications

Now that our products are defined we can enter the product specifications for each group by selecting Templates>Group Merchandizing Specifications/Prices>Set a Groups Merchandizing Specifications/Prices.

Or you can select the Specs/Price shortcut button.

Group Specifications

Next enter the Group Merchandizing specifications for the Loblolly Group by selecting Group 1 specs.

Notice that for the Loblolly group the Product names have changed to what we assigned them earlier. Our Alpha Codes have also changed to what we specified. You are now ready to input the cruising specifications for each product.

You can select which products you want to use here.
**Group Specifications**

**SPECIFICATION:** Product names. This can be changed for each group in the Product—Utilities—Group Name option. This will be covered later in this manual.

**Number Code:** This number is associated with each product class 1-4. These numbers are not user editable.

**Alpha code:** Code assigned to each product which can be 3 characters long.

**Computer Volume:** Enabled/Disabled. TCruise to calculate volumes for the associated product class.

**Threshold DBH:** The minimum DBH for each product category. TCruise will assign the products based on this number. The DBH must be in ascending order of magnitude; from pulpwood to sawing or the program will not let you continue.

**Pulpwood top(s):** The minimum diameter to which pulpwood volume will be calculated for each product class.

**Sawing top(s):** The minimum diameter to which sawing volume will be calculated for each product class except product class #1 (PW). Used with profile function only.

**Max end diameter:** The maximum butt diameter for each product category. Volume will not be calculated for diameters larger than value input.

**LogPart length:** Length to which TCruise will look to determine log lengths to calculate board foot volumes. This only affects board foot volumes, therefore product class #1 (PW) is not affected by this setting.

**Stamp Ht:** The stamp height (ft) for each product category. Only volumes below the stamp is included.

**WetCalc in BL:** Weighted, Girard Form Class and default Form Class. For programs to calculate accurate weight scaling values, provide your local area values for the Gross pounds per cubic feet (gbf) and Gross pounds per cu. yd data entry boxes. The gross pounds per cubic feet volume outside bark is used to compute log weights by product group and the gross pounds outside bark per weight only value is used to compute cord wood volume for each product group. The program does not compute stacked cord wood volume.

---

### Templates Menu

#### Group Specifications

**Minimum usable len:** If a mill has a minimum stem length, you can enter that here and if a height is entered in the field less than that and the Tree Bl Error check is enabled, TC will tell you that you are less that the minimum.

**Max merch len:** Maximum merchantable length for each product class.

**Min merch len:** Minimum merchantable length for each product class.

**Multiple Factor:** TCruise uses this feature to calculate volume for trees extremely entered. For example, if you merchandise logs to 16’ lengths and tree tally is entered as 23, TCruise will use this multiple factor to merchandise the tree to the factor you specify. If it is left unselected in the above example, TCruise will only calculate volume for 20’ and ignore the extra 3’.

**WetCalc in BL:** TCruise defaults to use 0 lbs (cu. ft. outside bark). This option will override the default. If the lbs (cu. ft. value is an inside bark value then this box should be selected.

**SL product reductor:** This feature allows you to millset a graded tree into different products. Set the log grade to the appropriate product and TC will send the portion of a stem that is assigned to that grade in the GAA section to that product category.

**Height record top diameter:** This is the diameter to which each tree within this group will be measured at Ht. By entering a height, TCruise is able to use the profile function to merchandise each tree accordingly. In the case to the left, the height record top diameter of “9” inches is equal to Total Height. TCruise then uses the selected profile function to merchandise the tree according to the product specifications. This diameter must be less than or equal to the minimum pulpwood top diameter (ob).

---

### Templates Menu
Group Specifications

Sawlog and Pulpwood product group height...: If these boxes are checked, you can cruise product heights and then use form class and a selected, species-specific, profile function to calculate volume.

Pulpwood in tops weight/cubic vol., Pulpwood in tops wt/cord: Set values for calculating topwood volumes.

Default pulpwood in tops computation options OVERRIDE: If you check the appropriate boxes on the Species Codes and Associations page, TCruise will calculate topwood for every Species Group. If you do not want TC to calculate topwood for a few Species Groups, then do not check the boxes on the Species Codes and Assn. page and instead check the appropriate boxes for those Species Groups on this page as shown here.

Minimum top pulpwood piece length: Minimum length that a topwood piece must be before the volume is included in volume report.

Group Specifications

After you set up 1 of your Group Specs, you can copy those same specs to other groups by selecting Templates>Group Merchandizing Specifications/Prices>Duplicate/Copy Merchandizing Specifications. This is particularly helpful with hardwood species that have very similar merch specs.

To utilize this function, select the groups on the right that you want to have the same merch specs (ex. White Oak, Sweetgum, Poplar, Hickory, Misc. Hardwood). Then click on the one group on the left that you want to duplicate from (ex. Red Oak). The specs will be duplicated.
Step #6 – Stumpage Parameters

When you have correctly set up each species group and the associated merchandizing specs, you can also input the associated values for each product. Do this by selecting Templates > Group Merchandizing Specifications/Prices > Set a Groups Merchandizing Specifications/Prices (or use the Specs/Price shortcut button) and then press the Group prices button for each group. Be sure and select the correct volume unit and then input the associated values for each product and if need be, each grade log.

Step #7 – Species Names and Codes

The next step is to select Templates > Species Group Volume Function Assignment (or the Volume Fnxs shortcut button) and enter the Species Names and the abbreviated Species Codes (up to 5 alpha or numeric characters) that you typically cruise. The Species Codes will appear on the handheld.
Species Names and Codes

It is important to note on this screen that you have **Species Names** and **Species Groups**. This can be a 1 to 1 relationship, or a many to 1 relationship. In other words, you can have a group for every species, or you can have several different pine species in the same Pine group. This means you can cruise them in the field by species and calculate their volumes with different volume calculators, but you will merchandise them the same and sum their volumes together in 1 group.

### Step #8 - Profile/Volume Calculation Functions

Next we need to assign the Profile Function and/or volume calculator(s) as follows: you can use Profile Functions (there are 340 such profiles built-in), Mesavage-Girard form class calculations, or custom tables or equations to calculate volume in TC. If you only use a **Primary volume calculator**, then TC will use that for all 4 product categories. If you use a **Primary** and **Secondary volume calculator**, then TC will use the Primary to calculate the Pulpwood product volume only and the Secondary for the 3 Sawtimber size products if they are turned on. As illustrated below, many people like to cruise their standing pulpwood to a letter top and then use a profile function to calculate that volume. Some use profile functions for their sawtimber products as well, but most like to cruise their sawtimber in log lengths and then use Mesavage-Girard to calculate the volumes.
Profile/Volume Calculation Functions

As shown below, if you select profile number 120, you will use Mesavage Girard form class to calculate your volume, but you can enter in your own % Bark Thickness.

Note also the Default Topwood computation boxes already mentioned. You can also set a Minimum top pulpwood length.
Custom Volume Calculators

Be aware that TCruise allows you to enter or modify custom equations or volume tables under the Tools > Equation Managers menu.

Here is an example of a Ton and Doyle table from 6 to 40” dbh beginning with 1 log and continuing up to 5 logs in ½ log increments.

Misc. Computation Options

Also be aware that there are several Misc. Computation Options under Tools > Advanced Computation Options. The most important of these is probably unchecking the Use Southern Doyle box. If you check this box then TCruise will automatically assign 1 bd ft/linear ft to logs that have a scaling end diameter of 8” or less. If you check this box, then TCruise might overpredict your Doyle volume in your small and/or upper logs.
1. Normal Profile Function Cruise

{Pulpwood and sawtimber are being cruised to a Record Top diameter (usually 0-4") and assigned profile functions are being used to calculate the volumes for all enabled products.}

Columns needed for input using a Profile Function cruise: SPC, No, DBH, HM, HS, TM, PRD

DBH: Diameter at Breast Height (4.5") in inches
HM: Height to Record top (i.e. 6" Total Height) Note: If only HM is input for the tree then TCruise will use the profile function to calculate the cubic foot volume for the tree. It will also calculate the amount of sawtimber to the specified sawtimber top and consider the rest of the stem above the sawtimber pulpwood. If a height value for HS is input, TCruise will calculate the volume for sawtimber to the specified HS height and consider everything above that height pulpwood.

HS: Sawtimber height for atypical or defective tree.
HP: Pulpwood height for atypical tree. If the tree you are measuring cannot be measured to the default record top (HM) then a height can be input in the HP column. If this is the case, a diameter at the HP height must be input into the TM column.

TM: Atypical or broken top diameter. Can be used in conjunction with HM or HP.

TCruise will use the species, dbh, and hm to build the profile of that tree. It will then determine where the sawtimber and pulpwood top diameters are for that stem and calculate the volumes for each of those segments (if the appropriate boxes are checked for segments).

<table>
<thead>
<tr>
<th>DBH</th>
<th>HM</th>
<th>HS</th>
<th>TM</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>60 ft</td>
<td>2.5 Logs</td>
<td>5&quot;</td>
</tr>
</tbody>
</table>

Use one method or the other, but not both for the same tree

Calculating Volume with TCruise

2. Normal Form Class Cruise

{Pulpwood is being cruised to a product top diameter while sawtimber is being cruised in number of logs. Both are being calculated with Mesavage Girard Form Class equations.}

Columns needed for input using a Form Class cruise: SPC, No, DBH, HM, PRD

DBH: Diameter at Breast Height (4.5") in inches
HM: Pulpwood tree = Height to Pulpwood top
HM: Sawtimber tree = #logs or # feet to top of last log

Topwood above sawtimber products will be calculated if you check the appropriate boxes.

<table>
<thead>
<tr>
<th>DBH</th>
<th>HM</th>
</tr>
</thead>
<tbody>
<tr>
<td>16&quot;</td>
<td>2.5 logs</td>
</tr>
</tbody>
</table>

Use one method or the other, but not both for the same tree

Calculating Volume with TCruise

7 - 11
Calculating Volume with TCruise

3. Profile Function and Form Class Cruise

{Pulpwood is being cruised to a record top diameter and is being calculated with profile functions (primary volume function), while sawtimber is being cruised in number of logs and is being calculated with Mesavage Girard Form Class equations (secondary volume function).}

Columns needed for input using a Form Class cruise: SPC, No, DBH, HM, TM, PRD

DBH: Diameter at Breast Height (4.5’) in inches
HM: Pulpwood tree = Height to Record top
HM: Sawtimber tree = # logs or # feet to top of last log
TM: Atypical or broken top diameter. Can be used in conjunction with HM or HP.
Topwood above sawtimber products will be calculated if you check the appropriate boxes.

Step #9 - Species Grade

In a similar manner to defining products, we can also define up to 10 different grades for each Species Group by selecting Templates>Grade by Group Names. This box will change each graded product as desired. The New code is what will show up on the handheld.
Species Grade

OPTION #1

TCruise gives you 2 options on how you want to use the Species Grade dialogue. If you want to actually GRADE each log segment of certain trees (i.e. – 3 face clear, 2 face clear, Prime, #1, etc.) and have that volume reported by grade under the appropriate product class that corresponds with the dbh entered for that tree, then set up the Sawlog Product Redirector boxes as shown here (with SW as the selection for each product).

Species Grade

In this example, we have a 16’ log which is Log Grade 1. Then we have a 4’ Cull segment (i.e. catface). Lastly we have 32’ of Log Grade 2. If we had made this a 16” dbh tree, then all of this graded volume would appear under the Sawtimber Product category from the previous slide (since the Sawtimber product group started at 14”). If the dbh of this stem had been 12”, then the graded volume would have been reported under the Medium Product category.

With a form class cruise, the Stopper should be set to SW. TCruise is assuming that the top of the last log is where sawtimber ends and topwood starts if you are calculating it. With a profile function cruise, Stopper top is extremely important because the Stopper tells the profile builder where the scaling end of the last segment entered stops. More info about grading in a Profile function cruise is found in the Normal Cruise Techniques section of this manual.
Species Grade

Option #2

The other way to use the species Grade dialogue is to use it as a means of MULTI-SORTING one stem into unique product segments. If you graded using Grade Auto-Assign (GAA), TCruise is still going to sum and assign the volumes of all graded segments in one stem to one product category based on dbh. But if you use the Sawlog Product Redirector in the Define > Species Groups screens, on the Grade Report, you can assign or add the total volume of a given product category to a grade.

In the field, the grade screen would be very similar to the previous example, but the results would be different because of how the Sawlog Product Redirector was set up. Here the volumes from both the graded Resale log, SA, and the Chipseaw log, CNS would show up in the Sawtimber product category (because the dbh of this tree fell into the sawtimber product category), but in the Grade Report, the total volume from the regular Chipseaw product category would be added to the volume of all of the CNS log segments.

The purpose of this feature is to allow the user to segment a stem as the logger would and then estimate the total volume of a given product across the stand irregardless of the stem’s dbh.
NOTE: On the regular Executive Summary Report, the CNS volume will be under CNS and all of the graded sawtimber volume will be under sawtimber. It is only on the Grade Report that the Total volume of a Product category and its corresponding log segments will be added together. For example, using the data entered on the previous slide plus one other normal nongraded CNS size tree, we can see on the Executive Summary report that the CNS volume is reported under the Chipnsaw product and all of the graded volume is reported under Sawtimber product.

The last step in Defining Species Grade is to set up Default Grade Options and Grade Reports. To do this, go to Templates > Grade Parameters and set the Default segment type to LG_1 and the Default stopper height to SW for a Form Class Cruise or HM for a Profile Function Cruise. Also, you can select how you want to print your grade reports.
Step # 10 – Custom Information Design

TCruise allows you to customize data input fields for data collection. We have a choice to collect user-defined data for every Tract, Plot, Tree, and/or Stratum. To access the customizable field setup screens, select Templates > Custom Information Design > Tract, Plot, Tree, or Stratum level information designer.

All of the designers work the same, so we will only look at the Tract level information designer.

Customizing Tract Data

After selecting the “Implement tract level…” at the top of the dialog box and the Use column, you may identify certain information to collect and associate with this tract. You can have multiple data type fields for the given information. Here we created a Drop list and then populated that list with the Edit list button.
Customizing Tract Data

To enter the custom data, select the **Tract shortcut button** and then select the **Enter user defined tract data**

To enter this data in the field, from the handheld select **Edit>Tract Info>Enter user defined tract data**

Press **OK** when finished

---

Custom Information Design

If you have elected to use the custom level information designer, you can input that data in either the office or the field as follows:

**Custom Tract level information:** (once)

Office: **Tract**→**Enter Tract level information**
Field: **Edit**→**Tract Info**→**Custom Info**

**Custom Plot level information:** (before every plot)

Office: **New Plot**→**Plot info**→**Enter user defined plot data**
Field: **Edit**→**Plot Info**→**Custom Info**

**Custom Tree level information:** (on every plot and tree as needed)

Office and Field: Will be another column in the tally sheet on each plot
Step #11 – Plot Strata ID List

TCruise supports the stratification of stands in the field. Our job is to define the stratum. To begin stratification select Templates > Edit Plot Strata ID List.

To add a strata, simply type in the name next to the Add item button and then press the Add item button and your strata will be added to the list.

Delete an item from the list by selecting it and then pressing the Delete selected item button.

Stratified cruises will be covered more fully in the specialty cruises section.

Step #12 - Tree Category List

TCruise also allows you to input custom tree information in the Templates> Edit Tree Category Codes columns. In the field, these lists will be displayed on a tree by tree basis, so you can organize your trees into categories. A good example is to mark each tree as Cut or Leave, or Preferred, Reserve, Cut, or 1, 2, 3, 4. When you get back to the office, you can subset the cruise by Tree Category.
Step #13 - Customizing the Display Columns

TCruise will allow you to customize the display columns for data entry. For example, if you are not collecting regeneration data then you do not need to see the columns for collecting regeneration information. To customize the display columns select Templates > Entry Form Column Options > Hide/Order Grid Columns. The screen to the right should appear.

Customizing the Display Columns

To begin reordering the columns, press the Columns button in the Sample Plot section of the dialog box.

We can now select the columns we want to see by selecting the box next to the column heading. In this example we will be using the no., hm, tm, and prd (product) columns. Press OK when finished.

Subsample plot cycle and Double Point cycle will be discussed in the Specialty Cruise section.
Customizing the Display Columns

Column Meanings

- **no.** = default number column = The number of occurrences.
- **hm = merch height** = Height to record top diameter with profile cruise or product height with Form Class cruise.
- **hs = sawtimber height** = Height to sawtimber top when using profile functions. Usually entered when a defect prevents the sawtimber section of a tree to reach the minimum sawtimber top diameter. Hs should only be used when using profile functions.
- **hp = pulpwod height** = Height to the pulpwod top when using profile functions. Usually entered when a defect or broken top prevents the tree from reaching Hm (height to record top). When a height value for Hp is entered a top diameter for tm should also be entered so that TCruise will accurately estimate the volume of the tree.
- **tm = merchantable top** = Broken or stopper top diameter if different from record top diameter. No volume calculated above this.
- **fc = form class** = Column to record form class per tree. If 20+ trees recorded across dbh class, TC will calculate FC regression and apply to rest of cruise.
- **prd = product** = The product group of the tree. TCruise will automatically assign a tree to a product group based on it’s threshold dbh. Select a product for the tree only if the product class is lower than the class that would be auto assigned. For example, a sawlog sized tree with no sawlog could be down graded to pulpwod and TCruise would only calculate a pulpwod volume for the tree.
- **age = Tree age.** Used for site index calculation. The species code of the tree must match the default site index species code.
- **ht = site index height** = Total height (feet) of the site index tree whose age is recorded in the Age column. At least 10 site index trees well distributed within the tract should measured to obtain a reliable estimate of site index for the designated site index species.

---

**Customizing the Display Columns**

**Column Meanings**

- **rg = radial growth** = Radial growth (inches) at breast height of a dbh growth measurement tree. The number of years included in the radial growth must be equal to the growth projection interval assigned for the cruise. At least 20 growth trees evenly distributed across the encountered dbh classes for a species group are required to obtain a reliable growth projection. Sbt = single bark thickness
- **sbt = single bark thickness** = Single bark thickness (inches) at breast height of a dbh growth tree. If the radial growth cell (rg) is non-blank, sbt must be non-blank and visa versus.
- **r = reproduction tree** = Check this box, if the data on the line is a reproduction count. The only non-blank cells allowed on a repro plot record are SpC, Num, and Dbh. Reproduction counts without an assigned dbh are put in the zero (0) dbh class. Do not attempt to use a repro line to record any other type of data.
- **o = offplot measurement** = A check informs TCruise that the tree measurements are on an off-plot/point height sub-sample, site index, and/or growth tree. Record data on off-plot trees only if insufficient on-plot tree height sub-sample, site index, or growth trees cannot be found to meet TCruise minimum regression observation number requirements. Rp and Op should never be simultaneously checked. Off plot tree volume is not calculated.
- **p = pulpwod tree** = Check this if the tree tallied as pulpwod will always be pulpwod as has no chance of becoming a higher value product.
- **tca = tree category A** = Contains the Tree Category A info set up in the template.
- **def = % defect**
- **tcb = tree category B** = Contains the Tree Category B info set up in the template.
- **u1-u22 = custom columns defined in the Custom Tree Level setup**
Customizing the Display Columns

Columns needed for a NORMAL Profile Function Cruise
[Pulpwood and sawtimber are being cruised to a Record Top diameter (usually 0-4") and profile functions are being used to calculate the volumes.]

Columns
spc – Species
dbh – Diameter at breast height
hm – Height to record top diameter (Defined in Group Merchandising Specs.)
hs – Height to sawtimber top when using profile functions. Usually entered when a defect prevents the sawtimber section of a tree to reach the minimum sawtimber top diameter. He should only be used when using profile functions.
hp – Usually entered when a defect prevents the tree from reaching the height record top diameter. If hp is used a tm diameter is required.
tm – Broken or stopper top diameter if different from record top diameter. No volume calculated above this.

prd – The product group of the tree. TCruise will automatically assign a tree to a product group based on it’s threshold dbh. Select a product for the tree only if the product class is lower than the class that would be auto assigned. For example, a sawlog sized tree with no sawlog could be down graded to pulpwood and TCruise would only calculate a pulpwood volume for the tree. You usually leave the default product at AA. Choose GAA if grading, or actual product if downgrading product class.

Customizing the Display Columns

Columns needed for a NORMAL Form Class Cruise
[Pulpwood is being cruised to a merchantable pulpwood top diameter while sawtimber is being cruised in number of sawlogs. Both are being calculated with Mesavage Girard Form Class equations.]

Columns
spc – species
dbh – diameter at breast height
hm – number of logs or number of feet to top of last log
prd – AA, or GAA if grading, or PW if have sawtimber size pulpwood tree
Customizing the Display Columns

Columns needed for a Profile Function and Form Class Cruise

[Pulpwood is being cruised to a letter top (i.e. 3’ or so) and being calculated with profile functions and sawtimber is being cruise in number of logs and being calculated with Mesavage Girard Form Class]

Columns

- spc – species
- dbh – diameter at breast height
- hm – number of logs or number of feet to top of last log
- tm – diameter of broken top tree or tree that will not make a letter pulpwood top
- prd – AA, or GAA if grading, or PW if have sawtimber size pulpwood tree

Note- need to enter this for sawtimber if have broken top and are calculating topwood.

Customizing the Display Columns

Changing the Column Order

The order of the columns can easily be changed on the PC by changing the number that is next to the column heading. In the example below, the tea column is being swapped with the hp column.
Customizing the Display Columns

We can also customize the actual cruise column names used in field data collection. To access this dialogue, select Templates > Entry Form Column Options > Edit Standard Cruise Column Names.

The Reassign standard column names dialogue appears and gives us the option of renaming every column that will show up on the PC or handheld.

Customizing the Display Columns

Here is an example of editing the Standard Cruise Column Names.

Hm column before custom column naming

<table>
<thead>
<tr>
<th>1</th>
<th>1</th>
<th>1</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Hm column after custom column naming

<table>
<thead>
<tr>
<th>1</th>
<th>1</th>
<th>1</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Step #14 – Report Options

Now that we have all of the cruise parameters, species codes and group assignments, profile functions group merchandizing specifications and prices set, it is time to select which reporting options are desired. There are a wide range of built-in reporting options available. These also allow the end-user to decide which volume parameters (cords, tons, cubic feet, etc) are going to be printed.

To access these options, select Report Setup > Report Options (or the Report Options shortcut button).

Report Options

The Reports General Settings are here.

- If you want a spreadsheet style stock-stand table, set that up here.
- If you want sampling errors, stats, etc. then uncheck these boxes here.
- You can create a Species Composite stand table using this dialogue here.

The best way to determine what info you want to see is to make the report as small as possible and then check or uncheck various boxes and see how the result changes when you Run by Groups.
Report Options

Please note that many of the Special report options will be covered in greater detail in the Specialty Cruise Section.

If you want a Classic Style Stand-Stock Table check the appropriate boxes here. You also have options for the volume units for sawtimber and pulpwood products in combinations of up to four different reports. In this example table 1 will have Sawtimber and Pulpwood in Tons, while Table 2 will have Sawtimber in Doyle and Pulpwood in Cords.

In order to control volume parameters for all of the other reports chosen in this box, select the Select Volumes to Print button.

Selecting Volume Variables

Notice that there are a large number of volume variables you may elect to have printed. Simply select which ones you want by left-clicking the check on the left. For those variables you do not wish to have printed, simply left-click off the check.

When you are finished, click OK. This gets you back to the Report Options screen.
Step #15 – Enter the Default Species Code

Now that your Species Groups and Species Codes have been established, you need to go back to the Active Cruise Parameters Screen (select Params) and enter your Default Species Code. This needs to match one of the codes you entered on the Volume Fnxs screen.

Step #16 - Saving the Template

Now that we have set the cruising and workup parameters for TCruise, we need to save the information as a template. To do so, select File > Save Input as Template.

The default Save in folder will be the Tet_Template, as shown to the right. Type in the name of the template you wish to save the information as and include .tct when naming. For example, we will save the file as the Training template. I will type in the full name of Training.tct in the File name: box and press Save.

CAUTION: If you do not enter an extension (.tct), T-Cruise will have no way of distinguishing the file type in this case.

Once this file is saved, it becomes the template in the active document. Also, whenever you want to use this template in the future, make sure to go to File/New. It will then go to the above template directory and allow you to choose which template you will need.
Step #17 - Exporting Codes and Parameters

We can now transfer the template information to our handheld for cruising purposes. Select File > Export Codes and Parameters > Export to TCWinCE Professional Edition Version 4.00.

After pressing the OK button you will be asked to name the .tcc file. Notice that TCruise is saving the file in the Tcc_CodesExportImport folder. Again while naming the file, you will also need to include the extension, which in this case will be .tcc. We can now transfer the file into your handheld via ActiveSync.

Step #18 - Syncing with Your PC

A. – Install Microsoft Activesync

Microsoft Activesync is a free program that allows a handheld device to be synchronized with a computer. If you are using a computer that does not have Microsoft ActiveSync installed (i.e. look at All Programs under the start menu), then you will need to install it from your LandMark Customer thumbdrive, or download and install it from our website (http://www.landmarksystems.com/support/microsoftactivesync.htm).
Syncing with Your PC

B. – Plug in your Handheld

When you finish installing it, it will ask you if you want it to search for a Mobile Device (ie. Recon or Ranger). **Plug your handheld into your PC with the supplied download cable and then select “Yes”**.

You will hear an obnoxious dinging noise and as it scans your computer’s ports to try to find the new Mobile Device.

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Data Transfer Port

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Syncing with Your PC

C. – Cancel the Partnership

Once you are connected you should see the Partnership dialogue box on your screen. You will **ALWAYS** select **Cancel** unless you want to use your handheld as a PDA and transfer email, schedules, contacts etc. back and forth.
Syncing with Your PC
D. – Select Explore

If you see the Microsoft ActiveSync dialog box as shown to the left, you have connected correctly and are ready to begin file transfer.

To find the shapefiles on your handheld, click Explore and then navigate to the correct Export directory.

Troubleshooting ActiveSync

#1 – Check the Handheld

If you are having trouble syncing with the computer, you need to make sure that ActiveSync on the handheld is configured correctly as shown below.

With Windows Mobile 5, open ActiveSync from the Start menu, and then go to Menu > Connections make sure the “When cradled Synchronize all PCs using this connection” Box is Checked and that it is set to USB.
Troubleshooting ActiveSync

#2 – Check your PC

If you have successfully installed ActiveSync, checked the handheld parameters, and are still having trouble, then open the ActiveSync Dialogue box on your Computer check the Connection Settings under File.

Depending upon your connection type, make sure that the Allow USB connection boxes are selected. Then select Connect.

Step # 19 - Transferring the .tcc file to Handheld

Now that we are connected to the PC, we can begin transferring files. To do so, we must use Windows Explorer as the avenue for transfer. Open Windows Explorer (right click on the My Computer Icon, Left click on Explore), Navigate to the folder where you saved the .tcc file. It should be C:\My Documents\TCruise\PC\Tcc_CodesExportImport.

Find the .tcc files you created in TCruise Office and select them. Right Click on the file and select Copy.
Transferring the .tcc file to Handheld

Next, navigate to the Mobile Device Location and double left click the TCruiseCE shortcut. This will take you to one of the following locations:

Pocket PC – Built-in Storage\My Documents\TCruiseCE
Windows Mobile - My Documents\TCruiseCE

Lastly, right click on that folder and select paste. The Copy & Convert dialog box will appear, Select Yes, and your files will be transferred.