

# NATIONAL CHECK CRUISE PROGRAM USER'S GUIDE (2015)

Washington Office Forest Management Service Center Fort Collins, Colorado

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# Introduction

The National Check Cruise Program (*CheckCruise*) is an important tool in the process of collecting data and calculating volumes for presentation in a timber sale. The check cruiser can create a cruise file ready for field use in FScruiser. Regional tolerances are entered through an easy to use interface. Reports are easily created and printed. This document is intended to provide the user with a guide and reference to the *CheckCruise* program. This new CheckCruise program works within the National Cruise System including the new CruiseManager program as well as the updated FScruiser and CruiseProcessing programs.

Some special symbols were used in this documentation to draw attention to important points or tips.



This symbol represents an idea, tip or hint to aid the user through a screen or process. These items are not necessary to successfully complete a given process but will make it faster or easier.



This symbol represents a note and offers additional clarification or definition. Not reading the note would not be harmful.



This symbol represents a potential problem or serious issue.

#### Who to call



Questions, comments, problems, or just want to talk? Here's two people who would like to hear from you:

Ken Cormier, Group Leader, Measurements Group Phone: 970-295-5779 email: kcormier@fs.fed.us

Barbara E. Menzel, Programmer/Analyst, Measurements Group Phone: 970-295-5775 email: bmenzel@fs.fed.us

### **Basic Steps**

The process provided by the *CheckCruise* program consists of three major steps. The first step is to create a check cruise file from an existing cruise file. This generates a file ready for field use in FScruiser. The check cruiser may select any combination of cutting units to include in this file. The generated check cruise file maintains the same name as the original cruise file and includes "\_CC" in the filename to distinguish it from the original.



### The check cruiser's initials are captured and stored in the check cruise file ("\_CC") for later use.

The second step consists of collecting check cruise data using FScruiser. Data may be collected using a data recorder. If a data recorder is not available, the data may be collected on paper and then entered in the PC version of FScruiser. Once the data is finalized, it must be processed in CruiseProcessing to get associated volumes calculated.

The third step is to compare the check cruise data with the original cruise data using the *CheckCruise* program. The tolerances for the current sale can be modified in the "Check Cruise Analysis" portion of the program. Any modifications made for the sale do not overwrite the regional defaults and pertain only to the current cruise file. After the comparison is complete, the evaluation report and/or text reports can be generated.

Tip: Cruiser and check cruiser initials are case sensitive. For example, cruiser initials entered as "SS" are NOT the same as cruiser initials entered as "ss". So requesting reports for cruiser initials of "SS" fails to find cruiser initials of "ss".

# MAIN MENU

The Main Menu in *ChekcCruise* consists of five main buttons and the Exit button. Each button represents a task or function which can be accomplished.

lock Cruise Program	
NATIONAL CHECK CRUISE F	PROGRAM
	CREATE NEW OPEN EXISITNG
	REGIONAL TOLERANCES
	CHECK CRUISE ANALYSIS
	REPORTS
	EXIT

**CREATE NEW**– Allows the user to create a check cruise file from an existing cruise file.

**OPEN EXISTING** – Open an existing check cruise file to perform analysis or generate reports.

**REGIONAL TOLERANCES** – Review regional default tolerances and add, delete or edit tolerances.

**CHECK CRUISE ANALYSIS** – Perform comparison between check cruise file and original cruise file.

**REPORTS** – Create and print summary reports.

**EXIT** – Closes the program.

Since the user can either create a new check cruise file or open an existing file on this menu, the dialog initially appears as shown here. Once either option has been used, the buttons are enabled as shown above.



# **Create a Check Cruise File**

The check cruiser has several options when creating the check cruise file. The window shown here basically has three sections. At the top of the window, the user selects the original cruise object to copy.

locate a Check Cruise File	
Enter cruise filename:	Browse
From the Original Cruise to include in the check cr	ist, select the cutting units uise file.
Original Cruise	Check Cruise
METHOD STRATUM UNIT	ALL> METHOD STRATUM UNIT
	->
	<
	< ALL
Click the box below to include all	Please enter the check cruiser
log records in the check file.	initials. These are used to
Include Log records	complete the check cruise later. Be sure to record them when collecting check cruise data.
Exclude cruiser tree measurements?	
CREATE	CHECK CRUISE FILE

The **Browse...** window displays all files with the **.cruise** extension.



Note: Since this window shows all files with .cruise extensions, would previously created check cruise files be displayed? Absolutely! ALWAYS DOUBLE CHECK FILENAMES BEFORE SELECTING THEM.

	folder				-	
\rm Downloads	*	Name	Date modified	Туре	Size	
Recent Places	-	퉬 Backups	3/25/2015 1:27 PM	File folder		
libraries		Pilgrim_Plantation_final.cruise	3/19/2015 10:34 AM	CRUISE File		262 KB
Videos Computer						

Once the original cruise filename is selected, the second section of the window has all the available strata listed in the small window on the left titled **Original Cruise**. Each stratum and cutting unit is listed along with the associated cruise method. By clicking on the desired cutting unit and stratum and then clicking the **right** arrow button in the middle, the unit is moved to the **Check Cruise** box on the right. These are the combinations to be placed in the check cruise file.

🍃 Creat	e a Check Ci	ruise File					3
Enter	F		ginal C	ruise	Plantation_final.cruis list, select the cutting uise file.		
	Origina	al Cruise				Check Cruise	
	METHOD	STRATUM	UNIT	*	ALL>	METHOD STRATUM UNIT	
+	F3P	01	22		>		
	F3P	01	64	E			
	F3P	01	20				
	P3P	02	22Z		<		
	P3P	02	64Z	-	<		
•		iii.		•	< ALL		
log re	Click the box below to include all log records in the check file.					Please enter the check cruiser initials. These are used to complete the check cruise later. Be sure to record them when collecting check cruise data.	
E:	xclude cruis	ser tree mea	isureme	ents?			
			CRE	ATE	CHECK CRUISE FILE	EXIT	

The example below shows the condition of the window after two units are selected. Notice the units are no longer in the Original Cruise list.

Original Cruise						Check	Cruise	
	METHOD	STRATUM	UNIT	ALL>		METHOD	STRATUM	UNIT
	F3P	01	22	>	+	F3P	01	64
	F3P	01	20			P3P	02	64Z
	P3P	02	22Z					
	P3P	02	20Z					

The **left** arrow button in the middle is used to move stratum/unit combinations on the right back to the left. In other words, the combinations are removed from the list.

Alternatively, all combinations may be selected by using the **ALL** button at the top of the buttons. Conversely, remove all combinations using the **ALL** button at the bottom of the button list.





When using the ALL buttons, a warning message is shown for each to ensure the user really wants all units included in the check cruise file.

In the third section, if log data is to be checked, click the box next to **Include Log records?** to include all associated log records for the stratum/unit combinations selected above.



In the box on the right side of the window, the check cruiser initials **MUST** be entered. It is important to include these initials as they are used to complete the check cruise later in the process.



### Additionally, when the check cruise data is collected in the field, the check cruiser initials must be recorded.

Another checkbox in the third section asks if cruiser tree measurement data be retained in the check cruise file (**Exclude cruiser tree measurements?**). If this box is checked, the cruiser's tree measurement data is not included in the check cruise file (excluded). If this box is not checked, the data is included in the check cruise file.



When the cruiser data is excluded, the user is asked if they would like an external file created for taking to the field. Clicking **YES** creates a file which can be printed or put on a data recorder for reference.

QUESTION		
?	Would you like a text file of tree and log measurements to be printed and taken to the field?	
	Yes No	]

WARNING	
<b></b>	This is a new check cruise file. It does not contain regional tolerances. Be sure to enter those before doing any analysis.
	ОК

Finally, click the **CREATE CHECK CRUISE FILE** button to generate the check cruise file. To distinguish between the original cruise and the check cruise file, recall the check cruise file contains "\_CC" in the filename. A warning message is displayed indicating no regional tolerances were found in the check cruise file. It is just a reminder to review tolerances using the appropriate button on the main menu.

If the check cruiser initials were not entered as explained above, a warning message (shown at right) is displayed. Enter the check cruiser initials as described above.





Clicking the **Exit** button closes the window. If this button is clicked prior to creating the check cruise file, the file is not created. Also, if check cruiser initials have not been entered as described above, the program again requests these be entered before exiting the window.

If the user clicks the exit button before selecting a file at the top, the program wants to know if this was on purpose or not by showing a warning message like this.



WARNING	×
<u> </u>	The Check Cruise file already exists. Do you want to overwrite the file?
	Yes No

One other warning may appear indicating the check cruise file already exists. The user decides if the file can be overwritten or not.

# **Open Existing**

After creating the check cruise file and collecting data using FScruiser, the check cruise is brought back to the *CheckCruise* program for analysis and creating reports. Use the **Open Existing** button to open the file. The other buttons on the Main Menu would initially be disabled as shown here.

lock Cruise Program	
NATIONAL CHECK CRUISE	PROGRAM
	CREATE NEW OPEN EXISITNG
	REGIONAL TOLERANCES
	CHECK CRUISE ANALYSIS
	REPORTS

Clicking the **Open Existing** button displays the standard **Browse...** window. In this case, all check cruise files are shown. This would be all cruise files with "**\_CC.cruise**" in the filename.

👃 Open					×
Coo - 📕 « CheckCr	ruiseDocuments 🕨 NewCheckCruise demo 🕨 F	৬ 🗸	✓ Search R5		٩
Organize 🔻 New fold	der			= •	0
Downloads     Recent Places     Libraries     Documents     Music     Pictures     Videos	Name Backups Pilgrim_Plantation_final_CC.cruise	Date modified 3/25/2015 1:27 PM 3/25/2015 1:29 PM	Type File folder CRUISE File	Size 262	КВ
IN Computer Market OSDisk (C:) Cal Disk Graph + File r	name:		Check cruis     Open	e files LCC.cruise	

Once the file is opened, the Main Menu is displayed and all buttons are now enabled. The check cruise is now ready for analysis or report generation.

lock Cruise Program	
NATIONAL CHECK CRUISE	PROGRAM
	CREATE NEW OPEN EXISITING
	REGIONAL TOLERANCES
	CHECK CRUISE ANALYSIS
	REPORTS
	EXIT

# **Enter Regional Tolerances**

Default regional tolerances are now stored within the program. When the Tolerance window is displayed, the program shows the regional default tolerances for the check cruise file. In this example, the file is from Region 5.

Think of this window as having three sections. The top section shows the default elements and associated conditions. The user may add rows, edit a row or delete a row. How this works is discussed below.

The middle section is where volume is to be included or not. Cubic and/or board foot can be included in the analysis and reports. Comparison against tolerance is only completed if the box next to **Include volume...** is checked. Primary and secondary tolerance applies to just that, primary volume or secondary volume. Gross and net tolerance applies to gross primary and secondary together as does net volume.

The third section shows the individual element accuracy score as well as the overall accuracy score.

Changing tolerances for an individual sale is discussed later in the **Cruise Analysis** section.

	ELEMENT		TOLERAN	ICE UNITS	ADDITION		WEIGHT
5	In/Out Trees		None	None	None		5
	Species		None	None	None		5
	DBH		3	percent	None		1
	Total Height		7	percent	None		1
	Seen Defect % P	rimary	10	percent	None		1
ŧ	- Alexandre - A		n c		8		
ume ] In	ADD ROW e included clude volume in c vic Foot Volume	Tolera	cruise analysis	Board Fo	v species tot Volume	E Toleran	DELETE ROV By product ce
ume ] In	e included clude volume in c	Tolera 0	cruise analysis	I By Board Fo F		E	By product
ume ] In	e included clude volume in c bic Foot Volume Primary	Tolera 0	cruise analysis ance percent	I By Board Fo F S	ot Volume Primary	Toleran 0	By product ce percent
ume ] In	e included clude volume in c oic Foot Volume Primary Secondary	Tolera 0 0	cruise analysis ance percent percent	♥ By Board Fo F S	ot Volume Primary Secondary	Toleran 0 0	By product ce percent percent
ume ] In Cut	e included clude volume in c bic Foot Volume Primary Secondary Gross	Tolera 0 0 5 10	percent percent percent percent percent	I Board Fo Board Fo F S (↑	ot Volume Primary Secondary Gross	Toleran 0 5 10	By product ce percent percent percent percent
ume   In Cub	e included clude volume in c pic Foot Volume Primary Secondary Gross Net	Tolera 0 0 5 10 s not in	percent percent percent percent percent percent cluded in the a	I Board Fo Board Fo F S (↑	ot Volume Primary Secondary Gross	Toleran 0 5 10	By product ce percent percent percent percent

lement Selection		
ELEMENT		•
TOLERANCE		
UNITS	-	
ADDITIONAL -		-
WEIGHT		
	Cancel	EXIT
	Cuncer	

Add Row Button

Clicking this button opens a small window where elements can be added. Five pieces of information are added in this window: the element, associated tolerance, the units for the tolerance, any additional parameter needed for comparison, and the weight assigned to the element.

#### ELEMENT

Currently, elements include the following items:

- In/Out Trees
- Species
- Live/Dead
- Product
- DBH
- Total Height
- Total Height <= 100 feet
- Total Height > 100 feet
- Merch Height Primary
- Merch Height Secondary
- Height to First Live Limb
- Top DIB Primary
- Seen Defect % Primary
- Seen Defect % Secondary
- Recoverable %
- Form class
- Clear Face
- Tree Grade
- Log Grade
- Log Defect %

Select the desired element to add and click on it. The element name is placed in the box.

**NOTE:** The previous version of the CheckCruise program had problems distinguishing between total height <= 100 feet and total height > 100 feet not to mention just total height. In this program, the additional parameter was added to the element description to make three distinct total height elements. Testing has shown this improves the comparison and reporting of total height. Be aware of this modification to elements when reviewing the regional default tolerances.

ELEMENT		-
	In/Out Trees	
TOLERANCE	Species	
	Live/Dead	
UNITS	Product	
ONITO	DBH	
ADDITIONAL	Total Height	
PARAMETER	Total Height <= 100 feet	
	Total Height > 100 feet	
WEIGHT	Merch Height Primary	
	Merch Height Secondary	
	Height to First Live Limb	
	Top DIB Primary	
	Seen Defect % Primary	
to port	Seen Defect % Secondary	
	Recoverable %	
ne is not included		zed in
	Clear Face	
	Tree Grade	
ents for Pass/Fai score for each in	Log Grade	

#### TOLERANCE

🎄 Element Selectio	n			- C X
ELEMENT	Product			-
TOLERANCE		1		
TOLETOWIOL	None			
UNITS	0.1	-		
onno	0.2			
ADDITIONAL	0.3	-		
PARAMETER	0.4			•
	0.5			
WEIGHT	0.6			
	0.7			
	0.8		-	
	0.9	ncel		EXIT
	1.0			di
	2.0			10
	3.0			
me is not included	4.0	ysis, i	t is or	ly summarized in
	6.0			
nents for Pass/Fail	7.0			
y score for each inc	9.0	nent	80	percent
	10.0			
v score (at least)	11.0		85	percent
y score (at least)	12.0		05	percent
	13.0			
300	14.0	giun	artor	ciances do no
No	15.0			file, the user i
	16.0			Id like to ente
	17.0			
wise, if the regio			s exi	st in the tolera
e user like to di		m?		
	20.0			

The tolerance list is simply numbers ranging from 0.1 (in tenth increments) through 20. For certain elements such as species, no numeric tolerance is used so tolerance of "None" is available from the list.

### UNITS

The Units item contains six possibilities for units and is associated with the tolerance entered. Units currently available include:

- None
- feet
- inches
- percent
- abs
- grade

For example, a tolerance of 3 could mean 3 inches, 3 percent, 3 feet, etc. So tolerance of 3 plus "percent" translates to "3 percent" which is applied to the selected element during analysis.

### **NOTE:** The units in this box apply to the tolerance and NOT the element. Selecting percent for seen defect is not an indication defect is a percent. It strictly applies to the tolerance as described above.

#### ADDITIONAL PARAMETER

Some regions utilize an additional descriptive parameter to the chosen element. These include:

- None
- 7% whichever >
- +1 per 25 feet > 100 feet
- 3% whichever >

If the program detects these parameters, it is applied to the associated element during analysis.

👃 Element Selecti	ion 🗖 🗖 🗾 📈
ELEMENT	Product -
TOLERANCE	None 👻
UNITS ADDITIONAL PARAMETER WEIGHT	None feet inches percent abs grade Cancel EXIT

Element Selecti	on 📃 🗖 📈
ELEMENT	Product -
TOLERANCE	None 👻
UNITS	None 👻
ADDITIONAL PARAMETER	
WEIGHT	None 7% whichever > +1 per 25 feet > 100 feet 3% whichever > Cancel EXIT

#### WEIGHT

The last item is the weight associated with the element. This is entered in the box and applied appropriately to determine the total error.

Once the items are completed, click **EXIT** to close the dialog and return to the tolerance list.

lement Selecti	on 📃 🗖 🗙
ELEMENT	Product -
TOLERANCE	None 👻
UNITS	None 👻
ADDITIONAL PARAMETER	None
WEIGHT	1.0
	Cancel EXIT

The element is added to the list and would look like the example shown below.

	ELEMENT	TOLERANCE	UNITS	ADDITIONAL PARAMETER	WEIGHT	-
	Species	None	None	None	5	Γ
	DBH	3	percent	None	1	
	Total Height	7	percent	None	1	-
	Seen Defect % Primary	10	percent	None	1	
>	Product	None	None	None	1	L

Notice every item except Element and Weight have an option of "**None**" in the list. For example, in the list above, the element Species shows "None" for every item except Weight. It has no associated additional parameters, no actual tolerance (meaning it has to be an exact match) and no units. Look at the element for DBH. It has no additional parameters but a tolerance of 3 percent with a weight of 1.

### **Delete Row Button**

Individual elements may be removed by highlighting the desired line and clicking the **DELETE ROW** button. This removes the line from the list. No warning is issued asking if the user really wants to delete the row. It just removes it. Notice in this example, the element "Product" added above has been deleted from the list.

ELEMENT	TOLERANCE	UNITS	ADDITIONAL PARAMETER	WEIGHT
In/Out Trees	None	None	None	5
Species	None	None	None	5
DBH	3	percent	None	1
Total Height	7	percent	None	1
Seen Defect % Primary	10	percent	None	1

#### Edit Row Button

If an element has changed, clicking the **EDIT ROW** button opens the **Element Selection** dialog with all the associated items. For example, suppose the tolerance and units for DBH have changed. The tolerance is now 1.0 and the units "inches". Using the pulldown lists, these are easily changed and update the list when **EXIT** is clicked.

	ELEMENT		TOLERANCE	UNITS	ADDITIONAL PARAMETER	WEIGHT
	In/Out Trees	1	None None Non		None	5
	Species		None	None	None	5
•	DBH		3	percent	None	1
	Total Height		7	percent	None	1
	Seen Def	Element Selec	tion		_ 🗆 🛋 🗙	1
Z In	e included clude volur ic Foot Vo Prima Secor Gross	UNITS ADDITIONAL PARAMETER WEIGHT	1	• Incel	▼ EXIT	product prcent prcent prcent
N	Net	ne is not include	ed in the ana	lysis, it i	s only summarized	percent
gion	al Requireme	ents for Pass/Fa	ail			
Over	all accuracy east)	score for each	individual ele	ment 8	0 percent	Cancel



If changes are made and the user clicks **Cancel** the program asks if this action was intended. Clicking **Yes** closes the window without saving any changes. Clicking **No** keeps the window open allowing additional changes or closing the window with the **EXIT** button to save the changes.

#### Volume Included

Cubic Foot Volume	Tolera	ance	Board Foot Volume	Tolera	ance
Primary	0	percent	Primary	0	percent
Secondary	0	percent	Secondary	0	percent
Gross	5	percent	Gross	5	percent
Net	10	percent	Net	10	percent

The **Volume Included** section gives the user the option of having volume **included** or **not included** in the analysis. Checking the box enables the volume tolerance fields. Enter the percent tolerance for the volumes shown. Additionally, the tolerances can be applied by species or by product by clicking the appropriate box. Tolerances for volume are all expressed as a percentage. *If volume is not included in the analysis, it is still summarized in the reports.* 

For both cubic foot and board foot volume, the tolerances apply to the volume as follows:

- **Primary** includes all primary volume
- Secondary includes all secondary volume
- Gross -- includes all primary and secondary gross volume
- Net includes all primary and secondary net volume

#### **Regional Requirements for Pass/Fail**

Regional Requirements for Pass/Fail		-	
Overall accuracy score for each individual element (at least)	80	percent	Cancel
Overall accuracy score (at least)	85	percent	EXIT

The last section, **Regional Requirements for Pass/Fail**, allows the percent score for each individual element and overall accuracy to be entered. This is applied at the end of the analysis and shown on reports generated.

When all appropriate information is complete, clicking the **Exit** button automatically saves the data and closes the window. The user is notified when the data has been saved.

# **Check Cruise Analysis**

After collecting data in the field using FScruiser, the check cruise file ("\_CC") is ready for analysis. On the Main Menu, clicking the button **Check Cruise Analysis** displays the following window.

lock Cruise Analysis		×
If desired, click the button to re tolerances before starting the a		OLERANCES
Please select or enter filena	mes for analysis.	
ORIGINAL CRUISE FILE	emo\R5\Pilgrim_Plantation_final.cruise	Browse
CHECK CRUISE FILE	\R5\Pilgrim_Plantation_final_CC.cruise	Browse
		EXIT

When a check cruise file is opened from the Main Menu, the filenames shown here default to the original cruise filename and the check cruise filename already opened. If a different check cruise is to be compared, the **Browse...** buttons can be used to select those files.

To begin the analysis, click the **COMPARE** button. Two possible error conditions might stop the comparison from proceeding.

#### No Tolerances

**Problem**: When a check cruise file is created, no tolerances exist in the file. After collecting data in the field and opening the file in the CheckCruise program, the Regional Tolerances must be retrieved and stored in the file. They could be modified if needed but they need to be stored in a table within the file.



**Solution**: Click **EXIT** to close the analysis window. Click **Regional Tolerances** on the Main Menu and review the tolerances list. Make any necessary changes and **EXIT** the window. Click on **Check Cruise Analysis** to start the comparison again.

### No Check Cruiser Initials

**Problem**: When the data was collected, the check cruiser neglected to enter their initials on checked trees.

Solution: Close the CheckCruise program and

return to CruiseManager to enter the check cruiser initials on checked trees.

Otherwise, the comparison would continue and display a series of messages to let the user know something is happening. Any of these messages are dismissed by clicking the **OK** button.





## **Reports**

When the **Reports** button is clicked on the Main Menu, this window is shown. Currently, there are four reports available including an RTF file for the Check Cruise Evaluation report:

- Evaluation Report by Sale (RTF)
- Evaluation Report by Cruiser (RTF)
- Summary Report by Sale (txt)
- Summary Report by Cruiser Single Sale (txt)

The currently open check cruise file is the default filename shown when the window opens. If a different check cruise file needs reports, simply use the **Browse...** button to open the desired file.

If reports by cruiser are desired, the cruiser initials **MUST** be entered in the top portion of the window. The cruiser name is optional.

Check Cruise Reports	
Select a file for Check CVruise Eval	luation Report and/or Summary Reports for single sale.
mo\R5\Pilgrim_Plan	tation_final_CC.cruise Browse
If reports are to be by cruiser, enter the	cruiser initials and name below. Cruiser name is optional.
Cruiser Initials	Cruiser Name
CHECK CRUISE EVA	LUATION REPORT
🔿 By Sale	By Cruiser
CREATE CHEC	K CRUISER EVALUATION REPORT
SUMMARY REPORTS	
	By Cruiser
	Single Sale
O By Sale	Multiple Sales
	Add files for multiple sales report Browse
CREATE	SUMMARY REPORTS
	EXIT
	EAI

#### **Check Cruise Evaluation Report**

This report echoes the form in the Timber Cruising Handbook (2409.12-2000-6, Exhibit 01). It is available for an entire sale or for an individual cruiser. A sample of the report by sale is shown below.

This example shows five elements were checked, lists the tolerance for each, the total possible, number incorrect, the error weight, the total error and the accuracy score. It also shows the overall accuracy score for this check. Also in this example, volume was not included for analysis and shows the volume for informational purposes only. Whether included in the analysis or not, volume checking does not affect the overall pass/fail condition.

In the last paragraph, the report also shows the accuracy standard for individual elements as well as an overall accuracy standard. An area is provided for handwritten comments and check cruiser certification.

The filename for this report is the filename on the cruise with the ".cruise" extension replaced with "\_BySale.RTF".

Sale N	Name:	1	Pilgrim Pl	antatio	m									
Regio	n:	1	)5											
					7									
Г	Che	ck C	ruise		1	Tree Me	tal	Number	Error	To	tal	Acc	uracy	
	E	leme A	ent	Т	olerance		sible	Incorrect D	Weight	Err	nor		re(%) G	
ł	In/Out T	~		1	Non		76	0	<u>د</u>	1	0	8	100	
Ĺ	Species	2			Non	-	76	1	5		5	Ĵ.	93	
-	DBH Total He	ight	0		+/-3 percer +/-7 percer	10 L D L L L L L L L L L L L L L L L L L	22	1	1	2	1	-	95 100	
ľ	Seen De Primary				-10 percer		22	0	1		ŏ	22	100	
E	Totals			3		8	218			ġ.	6	i.	97	
					Volu	ne for l	Ieasu	red Trees						
Specie			oss-Tol:	5%	CUFT N	et-Tol:	10%	BDFT Gr		5%			et-Tol:	1. F. C. F.
	Crui	ser	Check	%	Cruiser	Check	%	Cruiser	Check	%	Crui	ser	Check	%
DE		0	122	0								0	721	1
PP Evaluat The "To plot or j	13 tion Rest otal Poss point cru	ble" ises,	the "Tota	(C) rep al Poss	0 1155 ******* oresents th ible Corre	118 984 PASS e numbe ct Answ	0 0 ***** er of tre ers" of	0 7210	750 5740 tentially h	0 0 ave th	63 hat ele			or
The "To plot or p the che A meas check c	tion Resu otal Poss point cru ck cruise surement ruiser.	lt: ble" ises, c, fo isin The	the "Tota r all other number in	(C) rep al Poss r eleme it is noncorrect	0 1155 oresents th ible Corre ents, it is th ot within t ct (D) is m	118 984 PASS e numbe ct Answ he numb he speci ultiplied	0 0 ***** er of tre ers" of ber of co fied to l by an	0 7210	750 5740 tentially h ees" is the entified int of the sau ht (E) to g	0 0 ave th numb t/out t me m	63 hat ele ber of rees. easure	emen trees	5249 t (A). F identifie at made b	or ed by
PP Evaluat The "To plot or p the che A meas check c total en To pass accurat tolerand	tion Rest otal Poss point cru ck cruise surement ruiser. for is cor sthis che cy score r ce.	lt: ble" ises, fo is in The npan ck, e nust	the "Tota r all other correct if number in red to the t	(C) rep al Poss releme total post total post ent charts st 85	0 1155 oresents the ible Corresents, it is the ot within to ct (D) is mossible to ecked mussion	118 984 PASS e numbe ct Answ he numb he speci ultiplied get an ac	er of tre ers " of tre ers " of the fied tol l by an couracy n accu	0 7210 ******* ees that pol orrectly ide lerance (B) error weig	750 5740 tentially h ees" is the entified int of the sau ht (E) to g	0 0 ave th numb t/out t me m get the 80 p	63 hat ele ber of rees. easure e total	emen trees emer lerroi	5249 t (A). F identifie nt made b r (F). T d the ove	ed by oy the he rall
PP Evaluat The "To plot or p the che A meas check c total en To pass accurat tolerand	tion Rest otal Poss point cru ck cruise surement ruiser. for is cor sthis che cy score r ce.	lt: ble" ises, fo is in The npan ck, e nust	1078 column the "Tota r all other correct if number in red to the t each elem be at leas	(C) rep al Poss releme total post total post ent charts st 85	0 1155 oresents the ible Corresents, it is the ot within to ct (D) is mossible to ecked mussion	118 984 PASS e numbe ct Answ he numb he speci ultiplied get an ac	er of tre ers " of tre ers " of the fied tol l by an couracy n accu	0 7210 ******* ees that pol orrectly ide error weig y score (G). racy score	750 5740 tentially h ees" is the entified int of the sau ht (E) to g	0 0 ave th numb t/out t me m get the 80 p	63 hat ele ber of rees. easure e total	emen trees emer lerroi	5249 t (A). F identifie nt made b r (F). T d the ove	or ed by by the he rall

The sample below shows the report by cruiser. It shows the cruiser failed on two elements which causes the overall score to fail the check. The filename for this report is the filename on the cruise file with the ".cruise" extension replace by "**\_ByCruiser\_(cruiser initials).RTF**".

Sale	Name:	Pilgrim Pl	antati	on							
Regi	on:	05									
Cruis	ser ID:	DD									
Cruise	r Name:	Dudley Dor	right								
				T	ree Meas	surei	nents				
		ck Cruise			Tota		Number	Error		tal	Accuracy
	E	ement	1	B	Possi	DIE	D	Weight	En	TOT	Score (%)
	In/Out Tr	2999	-	None		10	0	5		0	100
	Species	000	+	None		10	1	5		5	50
	DBH			+/- 3 percen	t	2	1	1		1	50
	Total He			+/- 7 percen		2	0	1		0	100
	Seen De	fect%	+	/- 10 percen	t	2	0	1		0	100
	Primary Totals		-			26				6	77
	Totalo	0	I			20		8.		•	
							red Trees				
Specie		T Gross-Tol:	5%		et-Tol: 10		BDFT G		5%		FT Net-Tol: 10%
0.0	Cruis		%	Cruiser	Check	%	Cruiser	Check	%	Cruis	
DF		0 122 82 507	0	0 639	118 470	0	3760	750 2730	0	35	0 721 29 2546
10000	ation Resu Fotal Possi			******* presents th		****	*****				
The "T plot or the ch A mea check total er To pas	Fotal Possi r point cru eck cruise asurement cruiser. T rror is con ss this che acy score n	ible" column ises, the "Tot: r, for all other is incorrect if The number in npared to the ck, each elem	(C) re al Pos r elem fit is n ncorre total p	presents th sible Corre ents, it is th ot within ti cct (D) is m possible to p eccked mus	e number ect Answe he numbe he specifi ultiplied get an acc t have an	of troirs" of control of the control	****** ees that po f "in/out tr orrectly id lerance (B error wei y score (G racy score	tentially h ees" is the entified in ) of the sa ght (E) to g ). of at least	ave th numl t/out me m get the 80 p	nat elen ber of trees. easure e total	ment (A). For trees identified l ment made by t error (F). The t and the overall thin the specifie



Other messages could be shown requiring some action by the user. Some of the most common problems include:

INFORMATION

x

OK

**Problem:** No tree records could be found with the requested cruiser initials.

INFORMATION

Evaluation report is complete and

C:\WorkSpace\CheckCruiseDocuments\NewCheckCruise demo\R5\Pilgrim\_Plantation\_final\_BySale.RTF

may be found at

Solution: Edit the file in either CruiseManager or the PC version of FScruiser and enter cruiser initials where needed.

**Problem:** When the RTF file is created, it merely overwrites any existing file with the same name. However, if the RTF file is already open, the program cannot overwrite the file.

**Solution:** Close the RTF file and request the report again.









### Summary by Sale Report

The third report currently available is a **Summary by Sale**. It is a text listing of the data used in the check cruise. A sample page is shown here.

The header at the top includes the sale name, the filename for the cruise file and check cruise file, the number of elements checked in the cruise and the date of the tolerances used in the check. Each element in the check cruise has a listing in this report and has one or more pages depending on the amount of data used.

					NAT	IONAL CHECK	CRUISE PRO	GRAM	1				
						VERSION:	11.04.2015						
					RUN DAT	E & TIME: 1	1/03/2015 2	:55:	49 PM				
SALENAME: CRUISE FIL CHECK CRUI WUMBER OF		t22 ers\bme C:\Use CHECKED	rs\bmen: : 5	zel\Des	t22ChkCrs.or top\Oct22Chk		50						
LEMENT:	CUTTING						CRUISER			DIFFERENCE		01	TOF
STRATUM	UNIT	PLOT	TREE	C/M	ORIGINAL	CHECK	INITIALS		CTUAL	# DIFF	% DIFF		LERANCE
1	1	1	2	м	12	12	pp	T	0.0	1	1	1	0
1	1	1	4	м	14	14	pp	1	0.0	1	1	1	0
2	1		1	м	22	22	pp	1	0.0	1	1	1	0
2	1		2	M	24	22	pp	1	-2.0	1	1	1	1 **
2	1		3	M	26	26	pp	1	0.0	1	1	1	0
2	1		4	м	20	20	pp	1	0.0	1	1	1	0
1	2	4	1	м	18	16	pp		-2.0	1	1	1	1 **
1	2	4	2	м	18	18	pp	1	0.0	1	1	1	0
2	2		1	м	21	21	pp		0.0	1	1	1	0
2	2		2	M	22	22	pp	1	0.0	1	1	1	0
2	2		5	м	25	25	pp	1	0.0	1	1	1	0
2	2		6	м	26	26	pp	1	0.0	1	1	1	0
2	2		7	м	27	27	pp	1	0.0	1	1	1	0
1	3	5	1	M	14	14	pp	1	0.0	1	1	1	0
	3	5	2	M	15	15	pp		0.0	1	1		0

The body of this report is by stratum, cutting unit, plot and tree. It lists the cruiser's measurement in the ORIGINAL column and the check cruiser's measurement in the CHECK column. Depending on the element, the difference between the check cruiser measurement and the cruiser measurement is shown in the appropriate column. For elements such as Species, it either matches or it doesn't so "na" is displayed in the three difference columns.

The OUT OF TOLERANCE column shows whether the item passed the check or not. If it did not pass, a "1 \*\*" is displayed. The purpose of the asterisks is to draw attention to items out of tolerance. Zero indicates the item passed the analysis.

The filename for this report is the filename on the cruise file with the extension ".cruise" replaced with "\_SaleSummary.txt". Any text editor can be used to view this file.

#### Summary Report by Cruiser – Single Sale

Another report available is a **Summary Report by Cruiser** for a single sale. It is a text listing of the data used in a single sale by the requested cruiser. A sample page is shown here.

				NAT	TONAL	CHECK C	RUISE PROGE	AM		
							AFT.2015			
				BIN DAT			7/2015 2:18	-02 DM		
MMARY REPO	BT BY CR	ITSER		non bri		1000. 071				
INGLE SALE	ANT DI ON	OIDER								
ALENAME: F	Dilamin D	Instation								
			Cani coDogu	montolNorth	ockCr	uice dem	NPE Dilami	m Plantation	Final	amica
										final CC.cruise
			e (cnecktrui	sebocuments	/mewc	necktrui	se demo (Ko	Pilgrim_Plan	tation	
MBER OF EL										
LERANCES L	JATED: 3	/26/2015 12	:50:44 PM							
LEMENT: DE	211									
CUTTING	3			CRUISER				******	OUT	Contraction of the second s
		ORIGINAL	CHECK	CRUISER INITIALS		*********	DIFFERENCE # DIFF	*********** % DIFF		OF
CUTTING	3	ORIGINAL	CHECK 28	Contraction of the second	AC					RANCE
CUTTING UNIT	TREE			INITIALS	AC	TUAL			TOLE	RANCE
CUTTING UNIT 64Z	TREE	25.7	28	INITIALS DD	AC	TUAL			TOLE	RANCE
CUTTING UNIT 64Z 64Z	5 TREE 5 6	25.7 15.8	28 15.8	INITIALS DD DD	AC	2.3 0.0			TOLE	RANCE ** 0
CUTTING UNIT 64Z 64Z 64Z	5 TREE 5 6 8	25.7 15.8 20.6	28 15.8 20.6	DD DD DD DD DD	AC	2.3 0.0 0.0			TOLE	RANCE ** 0 0
CUTTING UNIT 64Z 64Z 64Z 64Z 64Z	5 TREE 5 6 8 4	25.7 15.8 20.6 19.4	28 15.8 20.6 19.4	INITIALS DD DD DD DD DD	AC	2.3 0.0 0.0 0.0			TOLE	RANCE ** 0 0 0
CUTTING UNIT 642 642 642 642 64 64	5 TREE 5 6 8 4	25.7 15.8 20.6 19.4 18	28 15.8 20.6 19.4 18	INITIALS DD DD DD DD DD DD DD	AC	2.3 0.0 0.0 0.0 0.0 0.0			TOLE	RANCE ** 0 0 0 0
CUTTING UNIT 642 642 642 64 64 64 64 64	5 TREE 5 6 8 4	25.7 15.8 20.6 19.4 18 19.4	28 15.8 20.6 19.4 18 19.4	INITIALS DD DD DD DD DD DD DD	AC	2.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0			TOLE	RANCE ** 0 0 0 0 0
CUTTING UNIT 64Z 64Z 64Z 64 64 64 64 64	5 TREE 5 6 8 4	25.7 15.8 20.6 19.4 18 19.4 21.3	28 15.8 20.6 19.4 18 19.4 21.3	INITIALS DD DD DD DD DD DD DD DD	AC	TUAL 2.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			TOLE	RANCE ** 0 0 0 0 0 0 0

It is similar to the Sale Summary Report with a few exceptions. The listing is by cutting unit and tree rather than stratum/cutting unit/plot and tree number. The cruiser and check cruiser measurements are still shown in the appropriate columns. The cruiser initials are included and the difference as described above are also included. The tolerance column is the same as in the sale summary report.

In this report, the number of total records may be different from the sale summary report depending on how many trees were collected by the cruiser.

The filename for this report is the filename on the cruise file with the extension ".cruise" replaced with "\_CruiserSaleSummary\_(cruiser initials).txt". Any text editor can be used to view this file.

Created: April 2015 Modified: November 2015