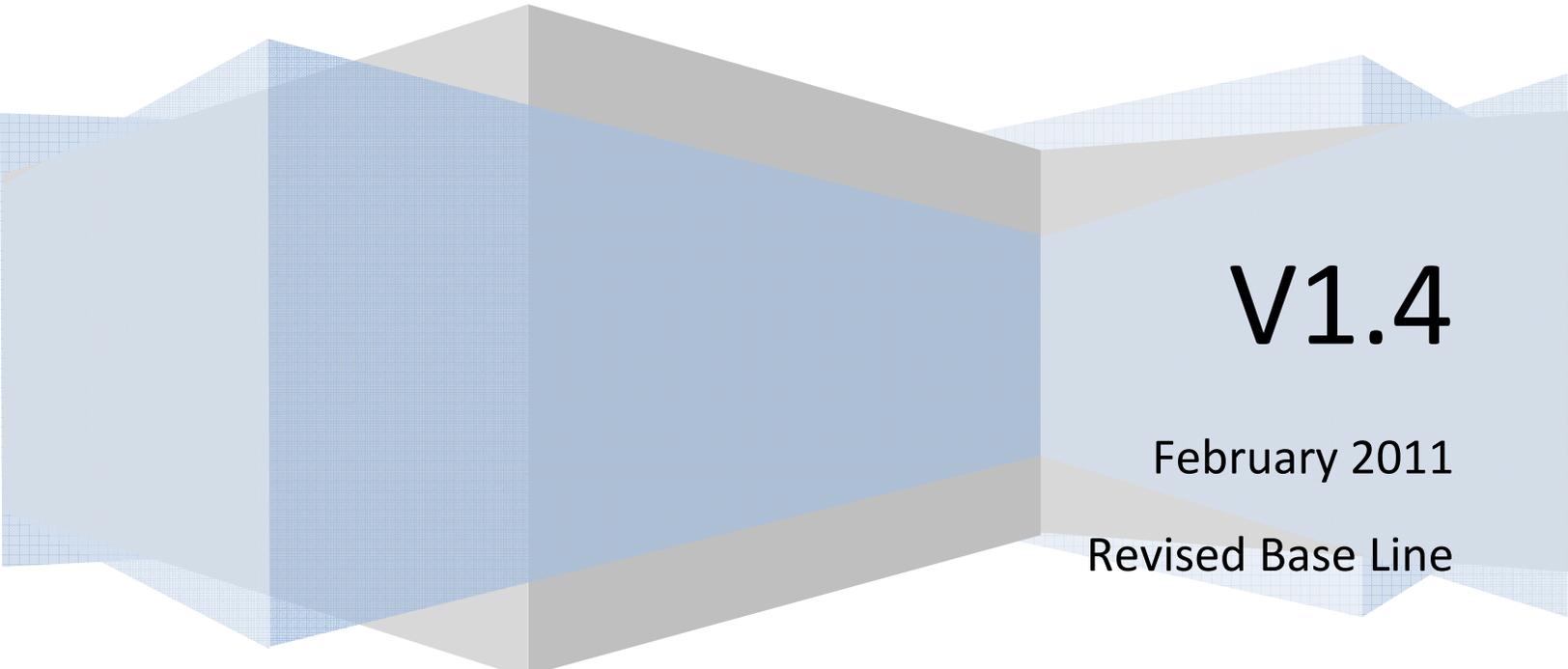


USA Water Ski

WSTIMS for WINDOWS

User Manual



V1.4

February 2011

Revised Base Line

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2 Install and Update the Application

2.1 Before Installing: System Requirements

The following system requirements are based on Microsoft specifications for the Microsoft .NET Framework 3.5 which is a core component of the application.

Application can be installed on either a PC or a MAC.

Supported Operating Systems

- Windows 7
- Windows 7 64 bit
- Windows XP (Microsoft doesn't specify a particular service pack requirement)
- Windows Vista (Microsoft doesn't specify a particular service pack requirement)
- Windows Vista 64 bit
- Microsoft Windows Server 2003
- Windows Server 2008

Hardware Requirements

- Minimum: 400 MHz CPU, 96 MB RAM, 800x600 256-color display
- Recommended: 1.0 GHz or higher CPU, 256 MB or more RAM, 1024x768 high-color 32-bit display
- Up to 500 MB of hard disk space may be required (disk space requirements vary widely depending on what is already installed, typically the requirement for just this application is between 25 and 50 MG)
- DPI Scale setting of 96 (typical default) should be used rather than 120 or higher to avoid truncation issues on the screens (Control panel - Display - Settings – Advanced OR Control Panel – Personalized)
- For a MAC
 - Run on an INTEL processor
 - Leopard 10.5 or Snow Leopard mandatory for 64bit) 10.6 Operating System for Mac and Bootcamp
 - A valid copy of windows XP, VISTA(32 or 64 bit), 7(32 or 64 bit)
 - If running Windows 7 64bit it is recommend installing 8GB ram otherwise 32 bit will run fine on 1 GB ram. An advantage for Windows 7 64bit is it can share the Mac files.

Third Party Components for generating output files

Another external component, a PDF Writer, is also recommended because it will make post tournament HQ reporting significantly easier. There are many freeware products that can be used for this purpose. All these products are small and install very easily.

These products are extremely simple to use and are used just like a standard print driver.

Use the standard print function, the only difference is that when presented with your printer selections simply pick the PDF writer product and your print output will allow you to specify a file and location to write your output to a file.

Suggested products are:

- CutePDF <http://www.cutepdf.com>
- PrimoPDF <http://www.primopdf.com/>

Additional information for Mac Users:

- For Mac's running an INTEL processor. There is a product called *Bootcamp*, from Apple that runs on the Leopard and Snow Leopard operating systems. It allows you to set up a partition to run Windows XP, Vista 32 or 64.
- For Mac's running Windows 7, Snow Leopard operating system will be needed. *Bootcamp* permits you to boot the computer either in Mac or Windows.
- There is also a product called VMWare Ver 2 or 3(64bit), which will allow you to run Mac and Windows at the same time. Note – a valid copy of the Windows Op system will be needed as well. Reference website: TigerDirect.com

NOTE: One issue using VMWare or Bootcamp on a MacBook laptop is that the built in keyboard maps differently than a standard Windows keyboard so it can be confusing to non Mac users.

NOTE: For Mac's using 64bit, you will not be able to run the "original" WSTIMS program (DOS version).

2.2 To Install or Upgrade

Helpful Hint: Before you install or upgrade; be familiar with your folder structure. There are many different ways to file information on computers, and here is a recommended way to organize your scorer's information, which will include the WSTIMS for Windows database (per tournament) and the Tournament Packages that are produced once a tournament has concluded:

- Create folder in "My Documents" named "WSTIMS for WINDOWS" with a sub folder named "Dbase" or "Database". This will contain the SDF files. Adding the Calendar Year or the Sanction Number to the file names can make them more manageable and easier for trouble shooting as well.
- Also in My Documents, create folder where you will want to keep all of the information for each tournament using the sanction number and name of the tournament. You can also use sub folders within each tournament for the Tournament Package reports and Zip file.
- This puts everything in one place and is easy to find quickly for each calendar year.
- It's the user's choice – these are just recommendations.

For initial installs, or upgrades, use the following direct link to install the application is as follows:

By selecting this link: <http://www.awsaeast.com/scoring/publish.htm>

Or through the AWSA East Home Page, under Section Menu on the left hand side of the page:



Initial installs can take some time depending on your system setup and internet connection. For an average broadband/DSL connection the install plan on between 30-60 minutes.

Once you have launched the install process a new window will display. Follow the instructions on the screen.

Water Ski Scoring WSTIMS For Windows

Name: WSTIMS For Windows

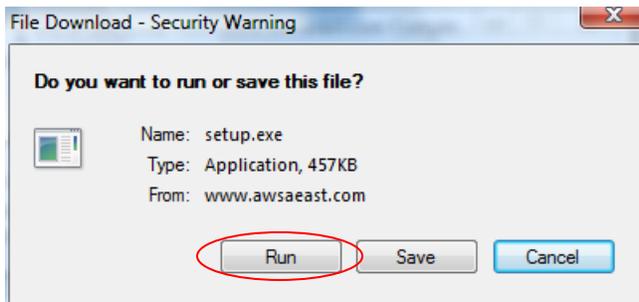
Version: 1.0.1.14

Publisher: Water Ski Scoring

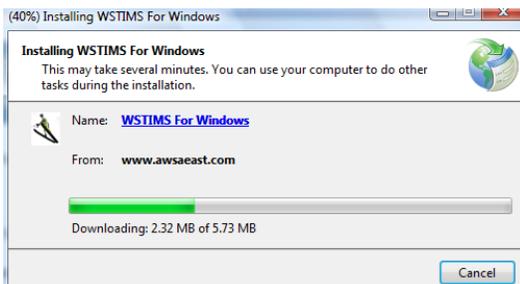
Install

[Water Ski Scoring Customer Support](#) :: [ClickOnce and .NET Framework Resources](#)

Click on **Install** button. Click on the **Run** button, on the next message box to initiate the install.



There will be status messages that display throughout the installation, example is below:



Key instructions to follow during the install:

- Click 'Yes' to keep your current database
- Click 'No' to load the database supplied with the application to "myDataDirectory"
- If you click 'No', select a location and supply a file name in the file open dialog to follow
- The database supplied with the application will be copied to your selected location

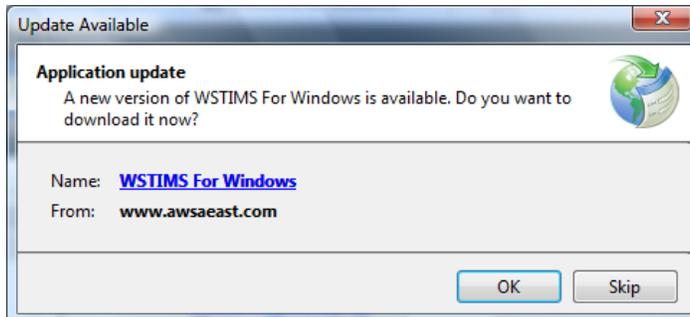
During the initial installation, the application downloads a default database that can be saved to any location on your computer (example: c:\documents\WISTIMS for Windows\database). The first time it will want to copy the database to the specified location. Subsequently it will ask this question in the event you want a refreshed database but the general response should be to click "Yes" and keep the existing database.

NOTE: In the event that the new version includes changes in the tables that drive the application (ie. Changes in the database) the install process will automatically perform the changes to the tables.

2.3 Application Updates

Once you have installed the application on your computer you will be prompted to install new updates. This means that if you are logged into the internet at the time you launch the application AND there is a new version of the application available you will receive a pop up message box asking if you want to install the updates.

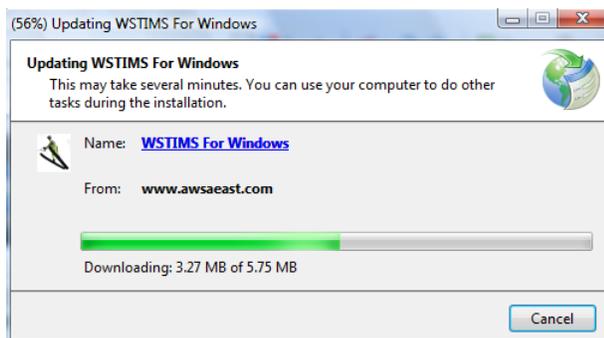
The following popup will display:



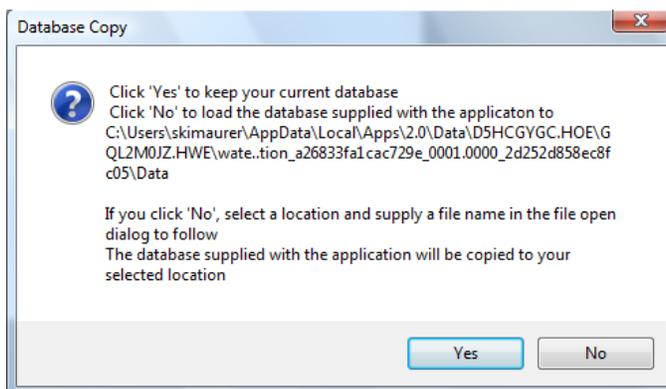
Click on the OK button to update the application immediately, otherwise click on SKIP. If you opt to SKIP the update, then the update window will not display again until there is another new version.

The update will take anywhere from 5 - 10 minutes, again depending on your system set up and internet connection.

After you click OK, then the application will begin to update:



Once it's updated, you will be asked about the location where your database is being stored. The typical response to the below message box is YES to retain the current location and database.

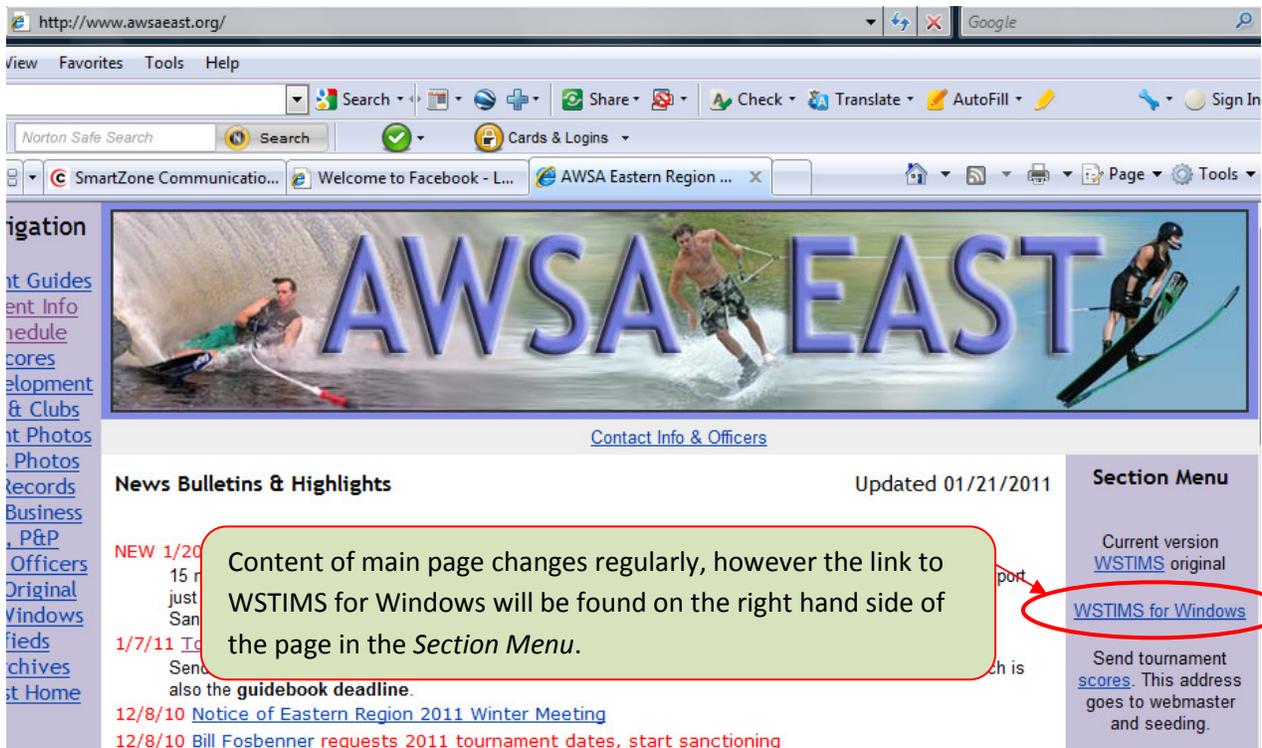


NOTE: In the instance where you choose to update the database, be sure to select the file name of a previously scored tournament the data will be overlaid. So it is best to save the new database with a new file name.

Lastly, if you choose Yes (retain existing database) and there are actual database changes. Your database will be upgraded without disturbing the existing data (scores).

2.4 News Regarding WSTIMS for Windows

Leverage the Eastern Region Water Ski website for current updates on **WSTIMS for WINDOWS**. This will include documents that outline what has changed in the application as well as a technical reference guide. Use the link on the right hand side of the home page:



Once you have clicked on the link noted above, then you will be presented with a current debrief regarding the windows version of WSTIMS.

WSTIMS For Windows development and testing continues for the 2010 ski season. The application is available for testing and to run in parallel with WSTIMS for anyone interested in reviewing the application and providing feedback. Broad based testing will contribute to a better and more stable application for our sport. Feedback on the functionality and any issues encountered are welcomed and encouraged.

The application has functionality for tournament registration, slalom, trick, and jump scoring events with support for AWSA, NCWSA, and IWSF rules. The jump scoring functionality includes support for entering distances or calculating jump distance via the Johnson Meter method (hoping for integrated video jump measurement next year). The application has functionality to produce all required HQ reports, ranking list export files, and official credit reports (please note that these reports have not yet been approved for official tournament submission).

A full reference document is available at <http://www.awsaeast.com/scoring/WstimsForWindowsRefGuide.pdf>

The application can be downloaded and deployed from <http://www.awsaeast.com/scoring/publish.htm>. Please read the reference guide before installing to view system requirements and deployment details.

Please also review the goals of the [working taskforce](#) and who you can contact for assistance or to report problems.

[David Allen](#)
WSTIMS for Windows Developer

Current version
[WSTIMS original](#)
[WSTIMS For Windows Task Force](#)



3 Open the Application and Get Started

3.1 Locate WSTIMS for Windows on your Computer

Locate **WSTIMS for Windows** icon on your computers *desktop*, or go to your *start up menu* and locate the application in your application list:

- a) From Desk Top:

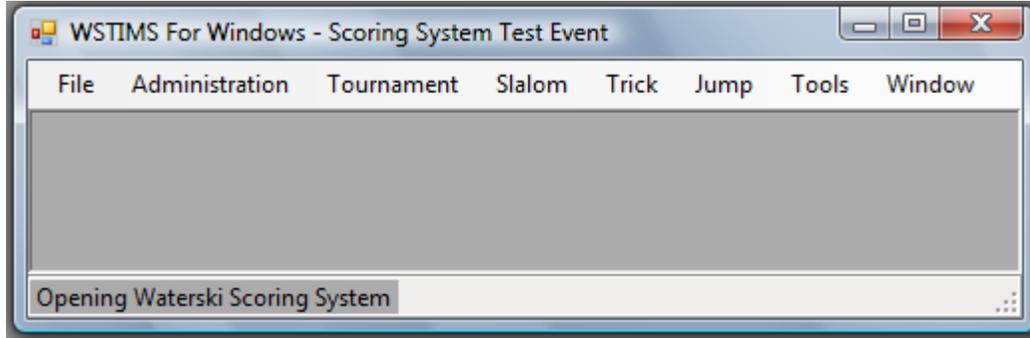


- b) From Start Up Menu:

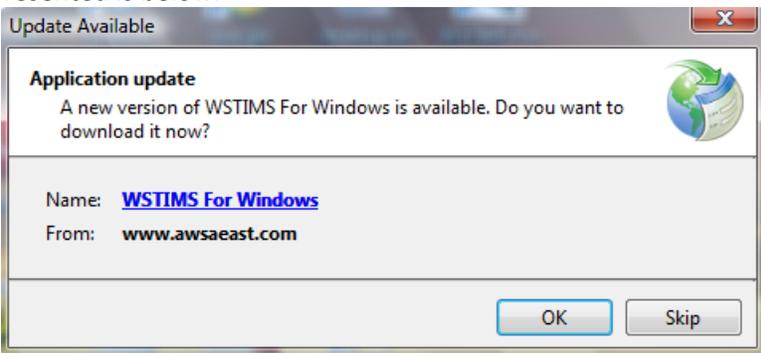


3.2 Launch the Application

The following will display after either Double clicking on the icon from the Desk Top or making the selection from the Start Menu:



NOTE if you are logged into the internet at the time that you open the application you will also receive a pop-up message to update the application when a new version is available. Example of the message box that will be presented is below.



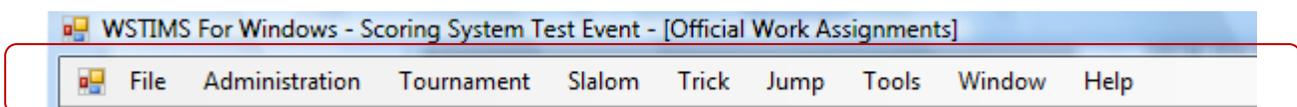
- If you choose to update the application, simply follow the messages on the screen.
- If you choose NOT to update the application the message box will not display again until another version is available.
- If you wish to take advantage of the new version at a later time, see the *Install and Upgrade* section of this manual.

4 Navigation:

This is a 'windows based' system so that means you can use your key board alongside the mouse to move between the different functions/modules.

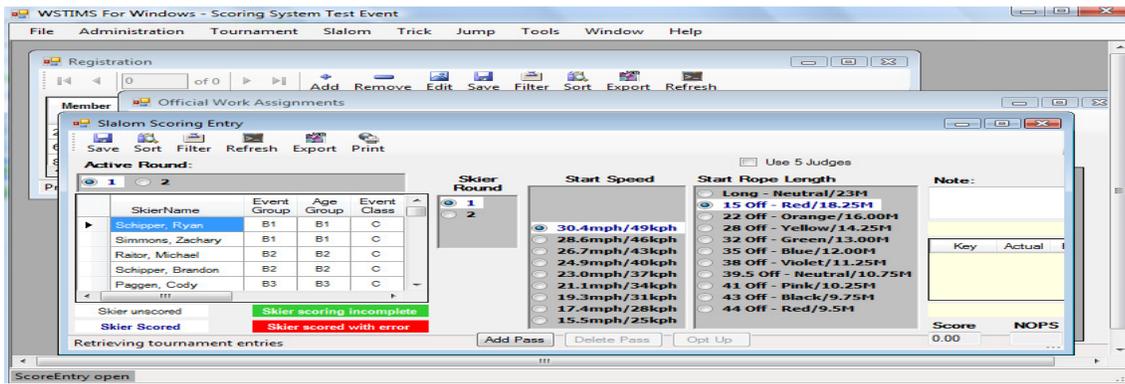
4.1 Tool Bar

The *Tool Bar* (noted by red box below), this is where most navigation between the different functions will occur.



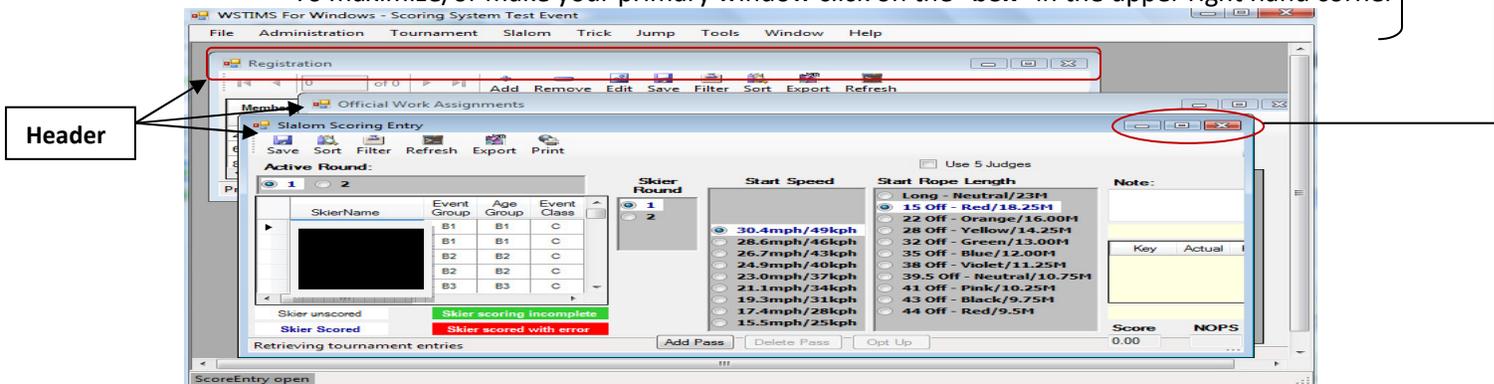
4.2 Moving between Windows

The application allows for easy maneuvering between the different modules of the application. In the below example there are three different modules (aka windows) open: *Registration*, *Official Work Assignments*, *Slalom Scoring Entry*.

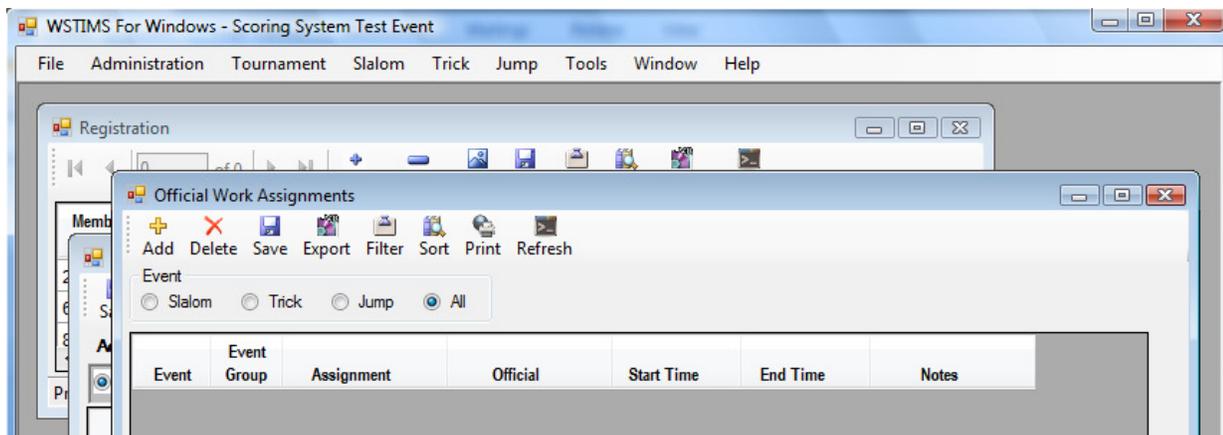


By clicking on the 'header' section of the different windows you can move between them. To manipulate the different windows you can:

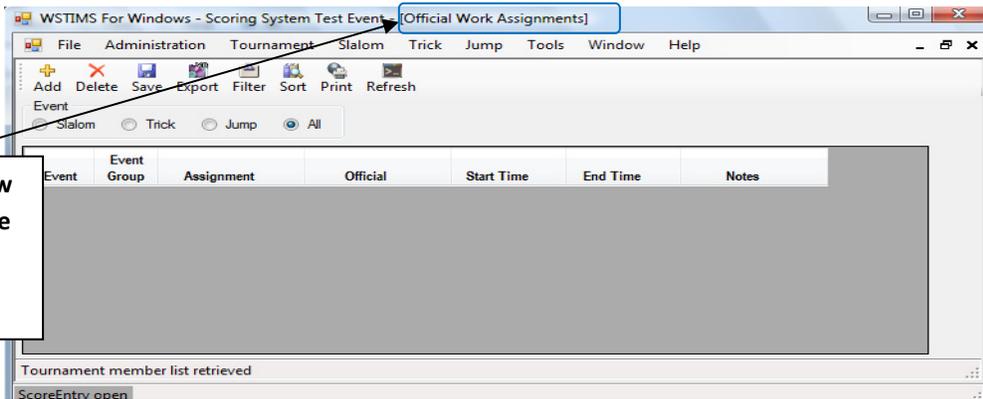
- To close a window click on the "X" in the upper right hand corner
- To minimize/or hide click on the "-" in the upper right hand corner
- To maximize/or make your primary window click on the "box" in the upper right hand corner



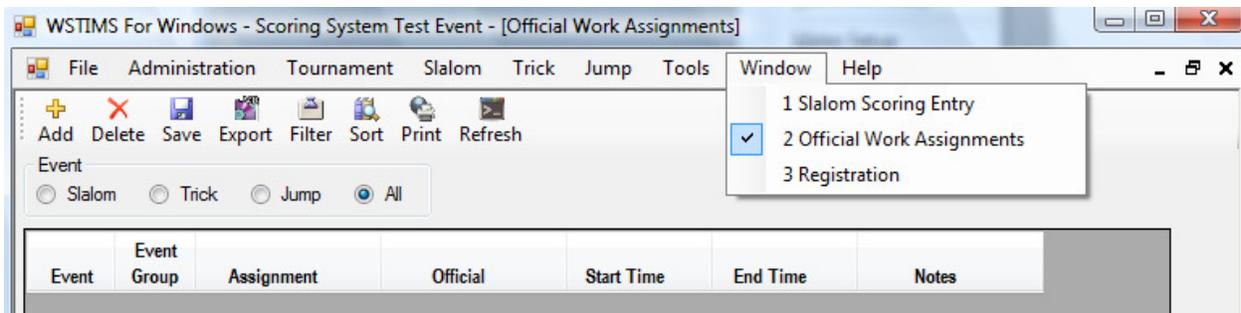
Example of a window being made the primary window, in this example the Official Work Assignment window has been selected and now shows in the forefront of the screen:



Example of a sub-window that is now maximized to take up the entire screen:



The *Window* selection from your tool bar can be used to see the other open windows and also allows you to jump to another window. The window that has a check box is the current active window (the one in front or that is maximized):



4.3 Viewing Lists

When viewing a list (i.e. list of members, list of officials), there will be a counter at the top of the window that will tell you what row/record you are on out of the total number or records. Example, the first row is highlighted resulting in the counter presenting that you have selected the first record out of a total of 52:

Row 1 of 52

Member Id	Skier Name	Age Group	Ready Ski?	Slalom	Trick	Jump	Slalom Group	Trick Group	Jump Group	Fee Due	Amt Paid	Payment Method	Weight	Jump Hgt	Trick Boat	Fed Fees	Fed Members Comments
20	Afonso, Alex	B3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S2	T2	XX								
60	Afonso, Chris	B2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S1	T1									
80	Afonso, Rui	M5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S4										

4.4 Common Buttons, Icons and Features

For many of the windows you will see common ICONS at the top. The functions are typically the same. These items are repeated throughout this manual; the below is a quick list of the various options. Note that not all windows will have all the same ICONS.

Example of an Icon Bar:



Common Functions:

Copy: Only found on the [Tournament List](#) window. This is an alternate way to create a new tournament to score. This icon needs to be used in concert with the “Add” icon and allows you to copy an existing tournament on your personal database and assign it a new sanction id. After the copy *all attributes* are available for update.

Refresh: Refreshes the data being seen in the active window with the most current data in the database.

Print: Prints the data as seen in the active window. This function will open a dialog box that allows you to select a printer and to preview the information.

Export: This function exports all the data used for the active window. The primary purpose of this feature is to allow the data to be transported and imported into WSTIMS for Windows on another computer. The data is exported in a tab delimited format that can also be easily imported into Microsoft Excel. Any nuisances are noted in the various sections within the manual.

Export List: Only found on the [Official Work Record](#) window. Generates a text file of the registered member list, official ratings and tournament assignments.

Filter: Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden.

Sort: Allows sort criteria to be specified that are applied to the list.

Save: Writes any changes to the database. Generally this is not necessary because automatic saves are performed at frequent logical intervals such as when moving within the application.

Add: Adds a record. Different requirements are needed based on the function being used. These differences are noted in the various sections within the manual.

Edit: Allows for changes to be made to the information on the window.

Insert: Only found on the [Member List](#) window. Provides an “input screen”, so that the user can enter attributes for a new member.

Delete: Allows user to delete row that the cursor is on. Different requirements are needed based on the function being used. These differences are noted in the various sections within the manual.

Remove: Deletes a record. Different requirements are needed based on the function being used. These differences are noted in the various sections within the manual.

Remove All: Only found on the [Member List](#) window. Deletes all the members in the member list. **NOTE:** This will not delete any scores entered for any member. Once a skier has been registered in a tournament the member record is no longer required to be on the list. **Alert:** There is not an undo button.

Run Order: Exports the running order data (as seen in the various windows) to a tab delimited text file.

HTML: Exports the data found on a specific window to an HTML format.

4.5 Hot Keys/Short Cuts

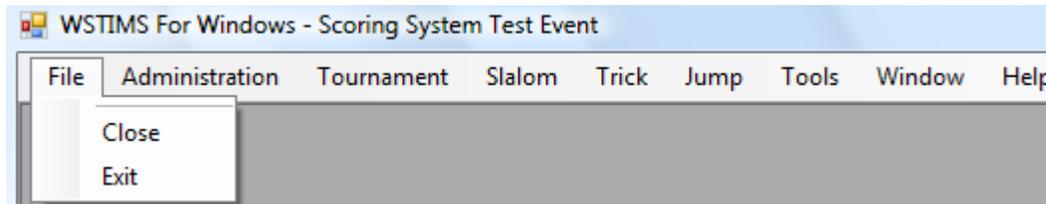
Alt Tab – will allow you to move between WSTIMS and other applications on your computer

Ctrl Tab – will allow you to move between the windows within WSTIMS

5 The *Tool Bar Selections.*

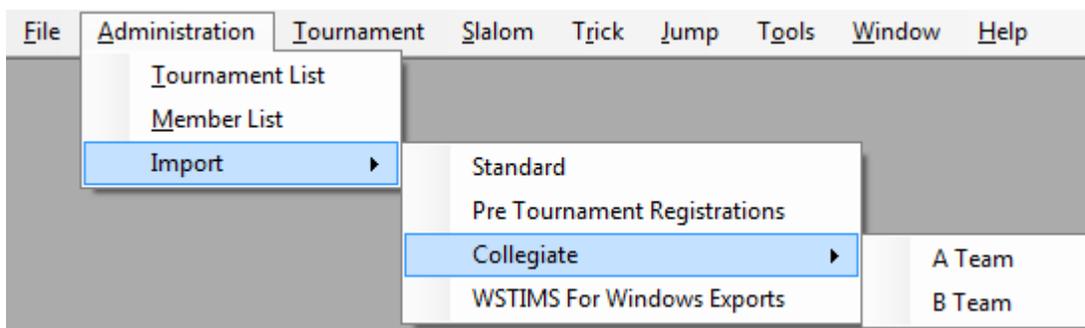
5.1 Tool Bar: File

File, is used to close an existing tournament or **exit WSTIMS for Windows** completely. There are two options, **Close** and **Exit**. The application will prompt you to save pending changes upon closing.



5.2 Tool Bar: Administration

Administration, is used to maintain your *tournament packages/lists* (i.e. June tournament from September Tournament), *member lists* as well as import your tournament rosters via the *Member Import* function.

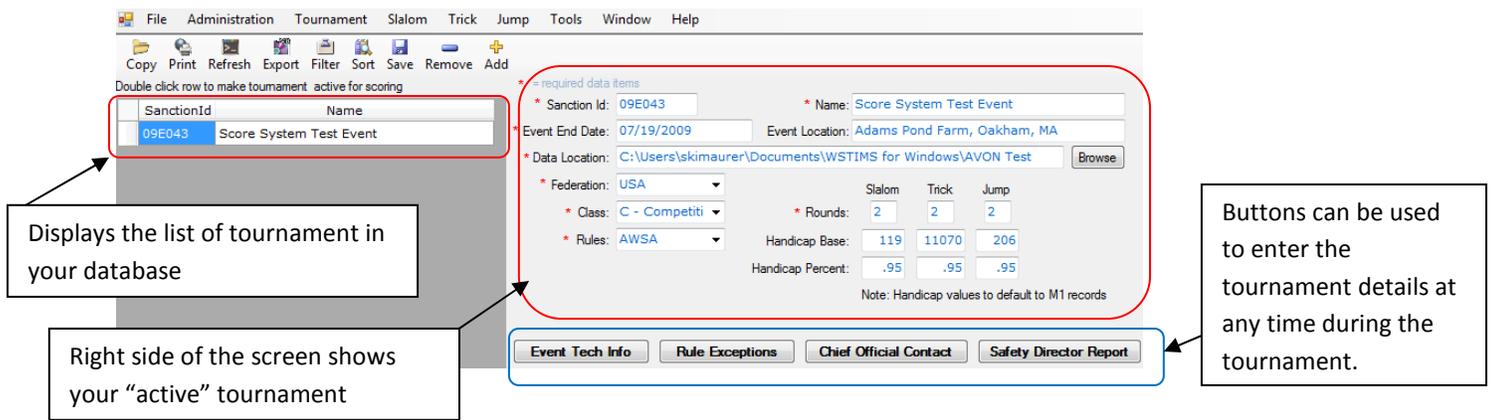


5.2.1 Tournament List

The *Tournament List* is used to view existing tournaments you have scored from your personal database, enter new tournaments to be scored, activate a tournament for scoring and to produce the chief officials paperwork when the tournament is completed (i.e. Tech info, Rule Exceptions, Officials Contact Information etc.).

NOTE: Only one tournament can be scored at a time. HOWEVER, several rounds can be scored at the same time for the same tournament.

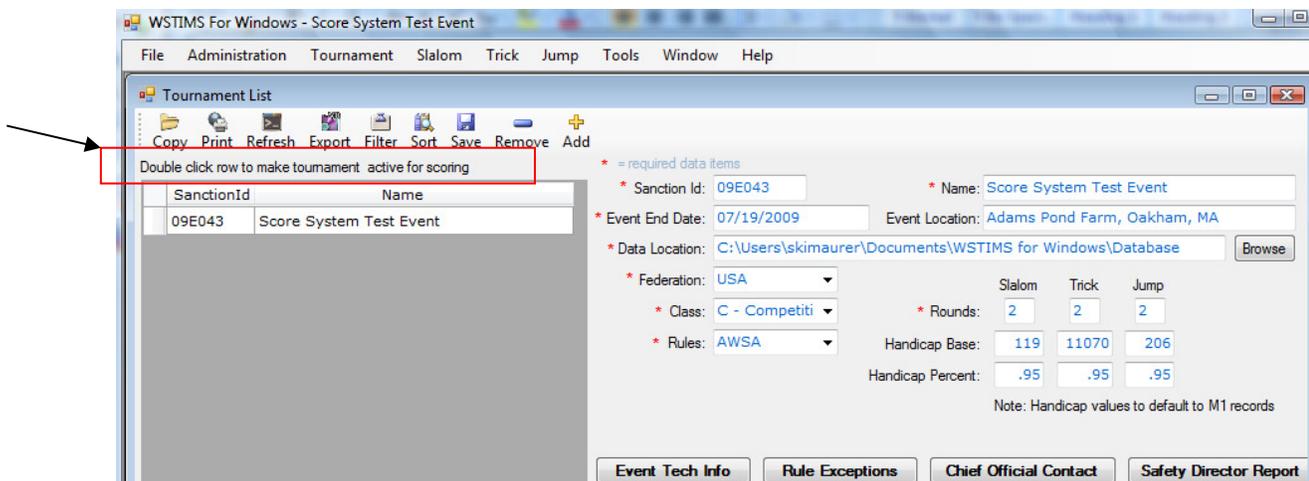
The list of available tournaments is shown on the left and the tournament attributes for the currently active row from the list shows on the right. Required attributes for scoring a tournament are indicated by a red asterisk.



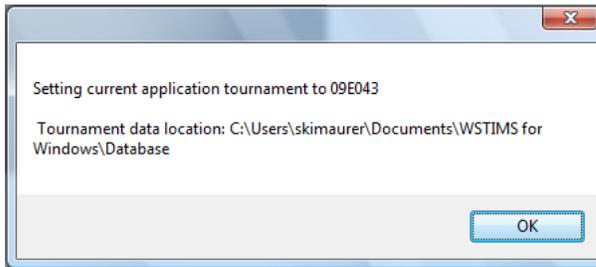
The *Handicap* information default ratio is: 95% and the handicap base is the M1 record value per event. These values can be changed on the Tournament Setup window; however the calculation for a skier occurs at the time that the skier is registered for an event. So this means that if you change the values on the Tournament Setup window AFTER skiers are registered the skier values will NOT be recalculated.

5.2.1.1 Activate a Tournament

- Ensure that all required fields are populated. The fields annotated with a red asterisks are required. **NOTE** that the Data Location field will need to be set prior to activation; this is where the tournament log file (YYXNNN-log.log) will be saved to as you score your tournament. This is also the default location for all export files that are generated.
- Once all the required fields are populated, take your cursor and go to the row of the tournament that it needs to be started, **double click** the row activate it or if the row is highlighted you can hit **enter** key. This initiates the tournament for scoring. The name of the active tournament shows in the application title bar.



- The following will display once you activate your tournament, this pop-up box will confirm where the data will be saved. **NOTE** the location below is specific to the computer being used, where as the below is only an example:



- d) The tournament level details required for headquarter and end of tournament reporting are input using the “Event Tech Info”, “Rule Exceptions”, and “Chief Official Contact Info” buttons shown at the bottom of the window. This information can be entered at any time and is not required to start tournament scoring.

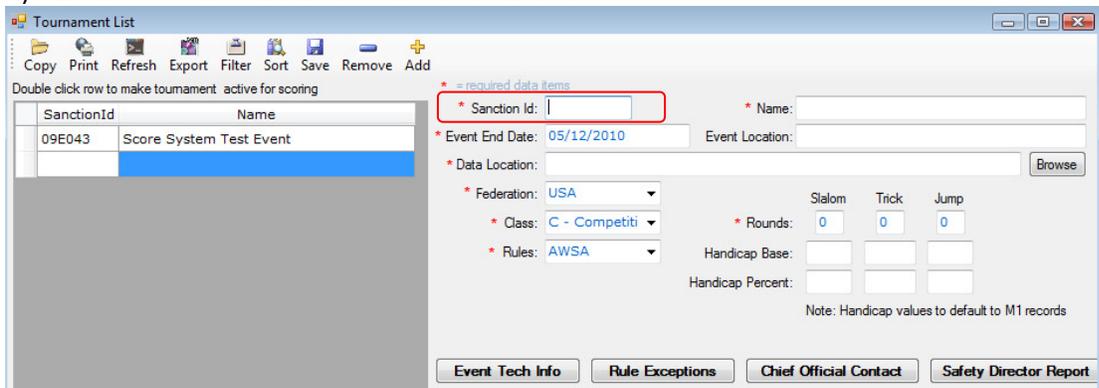
5.2.1.2 Tournament List: Additional functions available:



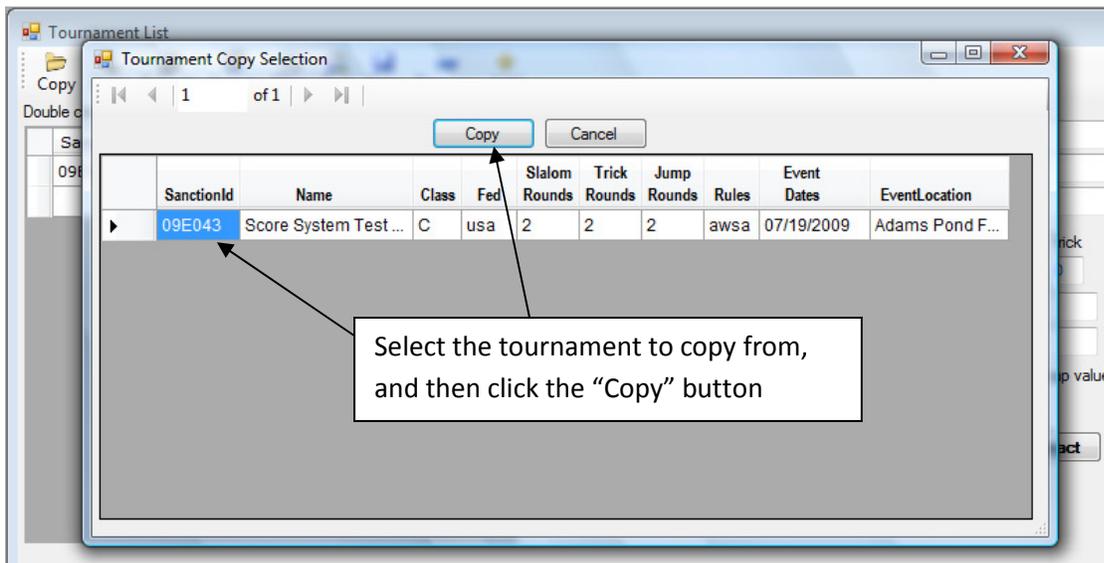
Copy: An alternate way to create a new tournament to score. This icon needs to be used in concert with the “Add” icon and allows you to copy an existing tournament on your personal database and assign it a new sanction id. After the copy all attributes are available for update.

Follow these steps to copy a tournament:

- a) Click on the “Add” icon
- b) Enter the new tournament sanction number



- c) Click on the “Copy” icon and a new pop-up window will display
- d) Find and click on the tournament you want to make the copy from
- e) Click on the “Copy” button



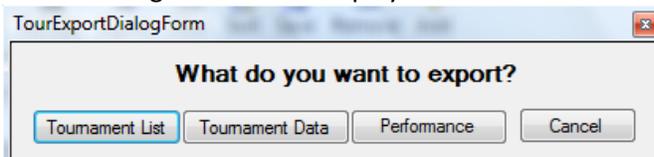
Print: Prints a screen capture of the current window.

Refresh: Retrieves the tournament list and attributes from the database

Export: Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. On this window there are 2 export options:

- 1) Export the tournament attributes for all items showing in the list;
- 2) Exports the entire tournament data for the currently active row in the list. This export includes all event registrations and tournament scores.
- 3) Exports the Performance data file.

The following window will display:



- a) Tournament List is used to export just the demographic information about the tournament.
- b) Tournament Data is used to export registration, associated scores, jump meter/video setup information and other key data.
- c) Performance generates the data in a WPS file which is used to update the National Ranking List. **NOTE:** there will be a function added at a later date to create a file that will be used to update the International and World Ranking lists.

The default folder location that was set up at the time of activating the tournament will be used when exporting the files.

Filter: Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden

Sort: Allows sort criteria to be specified that are applied to the list.

Save: Writes any changes to the database. Generally this is not necessary because automatic saves are performed at frequent logical intervals such as when moving from one tournament to another in the list.

Remove: Deletes the tournament indicated by the current active row on the list. A warning will be issued if you are attempting to delete a tournament that has any entered scores. You will be given the opportunity to cancel the request if scores are detected.

Add: Provides a new input form to enter attributes for a new tournament. [Sanction Id] is a 6 character string provided by AWSA Headquarters and has the following format YYR###

YY = 2 position year

R = Region

= 3 digit number

5.2.2 Member List

The *Member List* is used to view existing members that have been entered or imported to your personal database. This feature allows you to efficiently manage member data by either changing information or adding new members on the fly.

Note members must be entered on this list to be registered for a tournament.

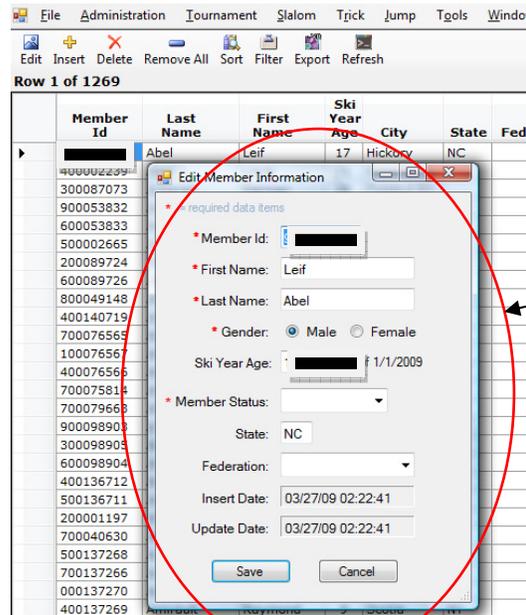
This window has two windows. The first section (the main window) contains a list of members with key attributes; a second window will display after **double clicking**, or **clicking** on the **Edit** button, on a specific member's row in the "main window".

Refresh Export Filter Sort Edit Insert Remove All Delete

Row 3 of 35

Member Id	Last Name	First Name	Ski Year Age	City	State	Fed	Status	Update Date
	Haines	Quinn			CT		Active	01/23/11 16:46
	Cooper	Ron			CT		Active	01/23/11 16:46
	Maurer	Tonya			CT		Active	01/23/11 16:47
	Sudimick	Jerry			CT		Active	01/23/11 16:47

*personal information blocked



Details display after 'double clicking' on specific row. Data can now be changed.

NOTE: at a later time this window will be updated to show additional attributes for a given participant (i.e. official's ratings).

5.2.2.1 Member List - Additional functions available:

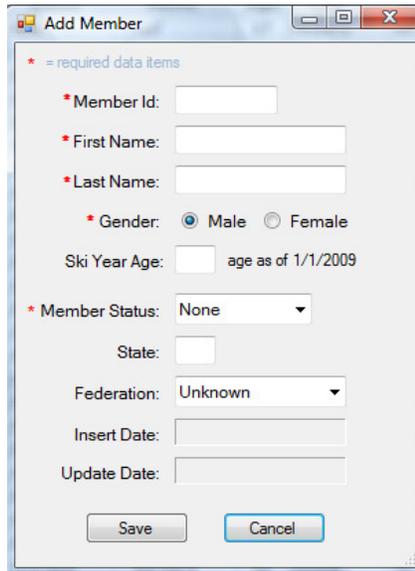


Refresh – Will refresh the list from the database.

Edit – Place cursor on member record you would like to change and **click** on the **Edit** button. The details that can be changed will be displayed. Use the **Save/Cancel** buttons accordingly.

Insert – Provides an input window to enter information for a new member.

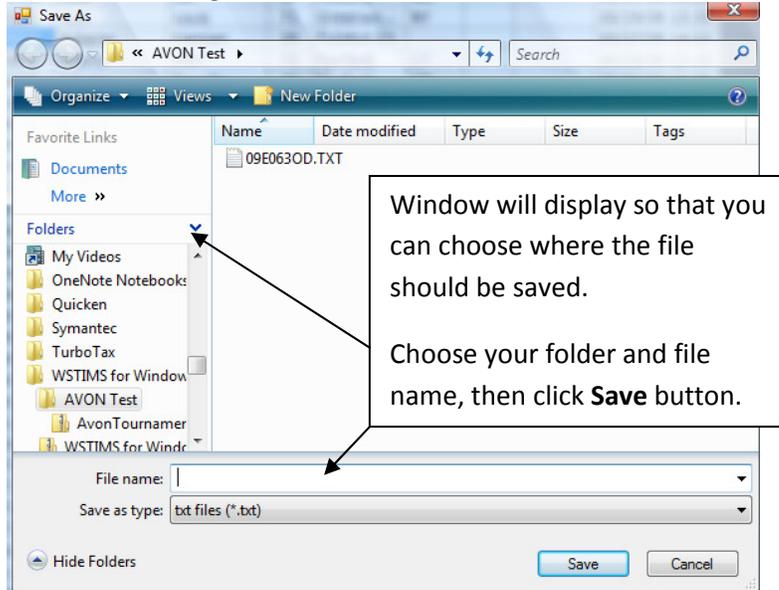
NOTE: The AWSA or Federation member number is the primary key for a member and duplicates are not allowed. If a member's number is not available a temporary number in the format 000000## can be used in order to load up a member in the member list (the requirement is that the number must be unique and do not use 01-10). The best way to enter the numbers is to start with 10 and work up to 99.



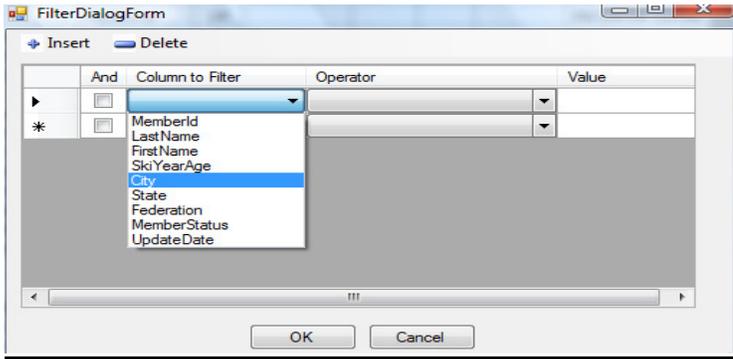
Delete – Deletes the member indicated by the current active row on the list. **Alert** – you will not be asked “to confirm your action” before actually deleting the record. **NOTE:** This will not delete any scores entered for the member. Once a skier has been registered in a tournament the member record is no longer required to be on the list. However it is a good idea to have this information for reference purposes.

Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

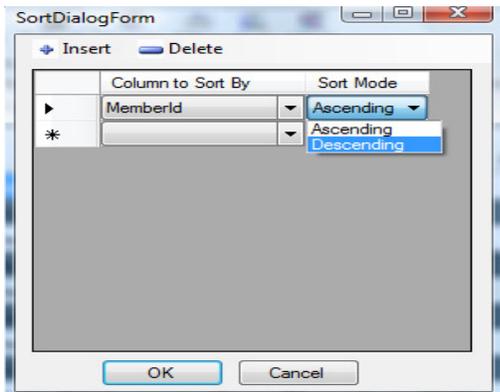
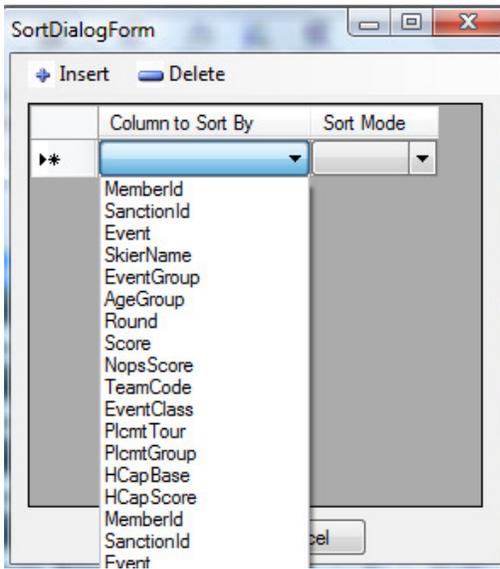
Export – Used to export data to tab delimited texted file which can be used to view in a text editor or to import into another users scoring database.



Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden. Example of adding a filter below:



Sort – Allows sort criteria to be specified that are applied to the list. This is initiated by click on the Sort icon and selecting information from drop down box:



NOTE: you can also sort the columns by **single clicking** on a specific column header; this will allow you to change the sort from ascending to descending.

Example:

List is defaulted in ascending order by **Last Name** –

Member Id	Last Name	First Name	Ski Year Age	City	State	Fed	Status	Update Date
40	Abel	Louis		Greenwood	NY			05/29/09 13:35
90	Abel	Leif		Hickory	NC			03/27/09 14:22
30	Ackerer	Damien		Puiseux En				03/27/09 14:22
60	Adams	Dorothy		Fairfield	CT			05/29/09 13:35
50	Adams	George		Barrington	NH			05/29/09 13:35
90	Adams	Don		Fairfield	CT			05/29/09 13:35
20	Afonso	Alex		Shrewsbury	MA			05/29/09 13:35
60	Afonso	Chris		Shrewsb...	MA			05/29/09 13:36

Results if you **double click** on the **Member ID** column, sort will change to be ascending order by **Member ID**:

Double Click on any column heading to sort

Member Id	Last Name	First Name	Ski Year Age	City	State	Fed	Status	Update Date
000000012	S	T			CT	Unkno	Active	02/08/11 14:41
000000617	N	J		Coventry	CT		Active	01/23/11 16:47
000000927	H	T		New	CT		Active	01/23/11 16:46
000040796	M	C		Amston	CT		Active	01/23/11 16:47
000041223	L	M		Morris	CT		Active	01/23/11 16:47

Remove All – Deletes all members. Note: This will not delete any scores entered for any member. Once a skier has been registered in a tournament the member record is no longer required to be on the list.

5.2.3 Member Import

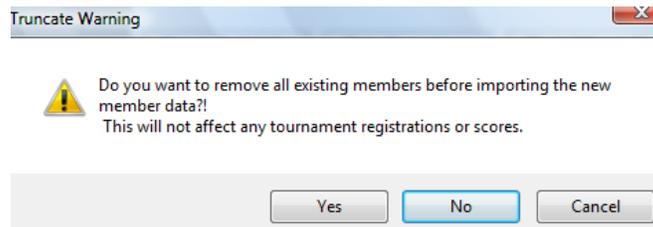
Membership data can be loaded via the **Member Import** function. The same registration templates used for the original WSTIMS application (DOS version) can be used for **WSTIMS for Windows**. Alternately members can be manually entered as seen in section 4.2.2.

There are 25 attributes available for a member but only 8 are required (indicated by a red asterisk). A skier's age division is determined by their "ski year" age which is dictated by their age on 12/31 of the tournaments ski year. Basically the first 2 positions of the tournament sanction id indicate the ski year to be used for this calculation. **NOTE** that a date of birth can be used to determine a ski year age and the appropriate age division but it is not required as the ski year age can be manually input. Based on the ski year age the age division dropdown validation list will show available entries that can be selected.

Alert: The import file must always be a **tab delimited text file**.

Before the import starts a dialog will give you the opportunity to delete all existing member data on the database. This is not necessary, and is only offered to keep the number of members to a manageable level.

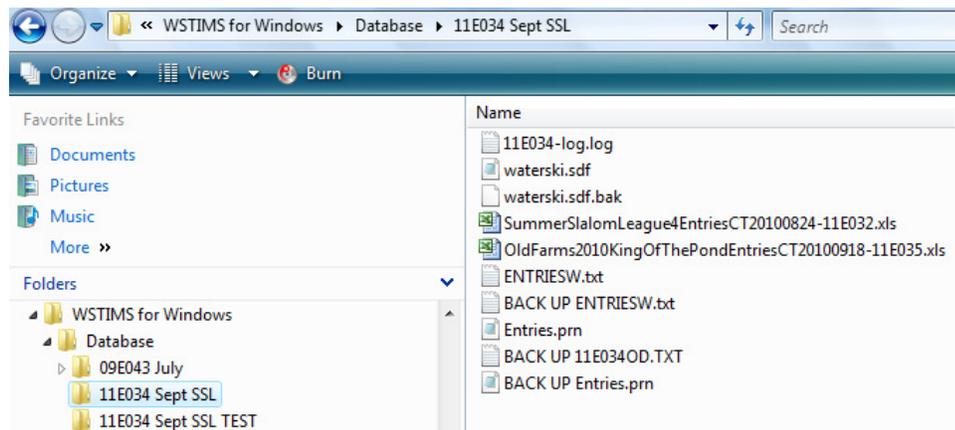
NOTE: Removing the member data will not remove any scores or information associated with any previous tournaments.



If you do not delete the current member data; then the new data will be added to the database. Specifically:

- a) existing member records will be updated,
- b) new records will be added,
- c) member information that is already in the database but not on the import file will remain unchanged.

Once you have determined if you want to delete the existing membership or not, you will be prompted for location of the import file. This will be consistent regardless of what mechanism you choose to import.



5.2.4 Member Import: formats for importing data

- a) **Standard** – 2009/2010 AWSA registration template. All features currently performed in the registration templates are supported during the import process.

Members will be registered in the active tournament if an event column has a value. If the value in either of the event columns or the age division column is equal to "OF" for official than the member will be registered in the active tournament but not in the specified event. This is used for non participating members acted as officials.

Chief and assistant chief officials can be indicated in the "officials" column as is currently supported. Values in the ranking list columns are also loaded to the database. Values in the import will be added to the database or will update records that already exist on the database.

Examples of the "instruction" tab and one of the registration tabs:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		HOW TO USE THIS NCWSA REGISTRATION TEMPLATE																
2		-----																
3		-----																
4		-----																
5		-----																
6		Overview Information																
7		Important Do's and Don'ts																
8		What's in this Excel Workbook																
9		Registration Management																
10		Entering Rotation #'s																
11		Officials Information																
12		Membership Status Information																
13		Sports Division Indicators																
14		Adding Members to this template																
15		Exporting your Entry Lists																
16		Potential Export Problem																
17		Cut-n-Paste Rows -- Excel 101																
18		-----																
19		-----																
20		-----																
21		Overview Information																
22		-----																
23		-----																
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100		-----																

b) **Pre-tournament registration.** Same as above but this is the new for 2009 format supporting online registration. Examples of the "instruction" tab and one of the registration tabs:

HOW TO USE THIS AWSA PRE-REGISTRATION EXPORT
 =====

Overview Information
Important Do's and Don'ts
What's in this Excel Workbook <----
Getting your Pre-Reg Export <----
Registration Management <---- Click on the links
Age Division Information <----
Officials Information <---- to the left to find
Ranking Scores & Levels <----
Membership Status Information <---- your way around in
Entry & Payment Information <----
Adding Skiers to this templat <---- these instructions
Sorting your Participant List <----
Registrar/Scorer Coordination <----
Exporting your Entry List
Potential Export Problem
Cut-n-Paste Rows -- Excel 101

Overview Information (back to top)
 =====

This AWSA Pre-Registration Export has been pre-populated with all of the information from the Online Registration system, for the entered participants in your tournament. It also includes an extract of all USA Water Ski members in selected geography, in case you have to deal with last-minute walk-on registrants, and will not have online access at the actual tournament site.

This Excel workbook in which all this is packaged, contains multiple sections, whose tabs can be seen at the lower left corner of the

Instructions | Pre-Registered | Active Members | Membership Action Req'd

Member ID #	Last-name	1st-name	Team	Dv	Ag	Home City	ST	SL	TR	JP	DJCS	-SLM-	-TRK-	-JMP-	SL	TR	JP	U
	Arora	Michael	M3			Houston	TX	M3			RA--	102.83			S8			
	Baird	Nicole	W2			Covington	LA				CJ	91.33			S8			
	Baker	Chad	MM			Lewisville	TX	MM			-R--	107.00			S8			
	Baldwin	Mike	MM			Windermere	FL	MM			----	105.00			S8			
	Beaman	Donald	M5			Littleton	CO	M5			-A--	101.00	1323.0	116.00	S8	T7	J8	
	Binkley	Steven	MM			Granbury	TX	MM			-R--	105.00			S8			
	Butcher	Donald	M7			McKinney	TX	M7			SA--	92.33			S8			
	Butterfield	Bruce	MM			Sherman	TX	MM			-S--	104.83			S8			
	Cost	Tia	M5			Canton	MS				CD							
	Crow	Todd	MM			Morristown	IN	MM			----	102.00			S8			
	Dehlinger	Mike	MM			Orlando	FL	MM			----	105.67			S8			
	Dlugosh	Kelly	W4			Cypress	TX				SSRC	67.28	1070.0	42.00	S7	T6	J8	
	Dlugosh	Terry	M4			Cypress	TX				AS-N	78.58	1566.0	84.67	S5	T7	J6	
	Dodd	Bruce	MM			Alberta	AB	MM			----	106.00						
	Drozdz	Dean	M4			Lake Dallas	TX	M4			RA--	106.17			S8			
	Faulkner	Elgin	MA			Houston	TX				CT	46.33	733.3	46.33	S8	T8	J8	
	Goode	Dave	M5			Ogden	UT	M5			-S--	104.17			S8			
	Goodson	Jerry	M3			Duncan	OK	M3			-S--	106.83			S8			
	Haines	Hutch	M3			Avon	CT	M3			RA--	105.00		127.72	S8		J7	
	Hintringer	Harald	M4			Wellington	FL	M4			----	109.75						
	Hinz	Glen	M2			Houston	TX	M2			-R--							
	Huston	Tia	M4			Lake Wales	FL	M4			----	104.50			S8			

c) **Collegiate** - AWSA collegiate registration template. Same as number 1 but in the collegiate format. Note that there are separate import functions for Team A and Team B.

HOW TO USE THIS NCWSA REGISTRATION TEMPLATE
 =====

Overview Information
Important Do's and Don'ts <----
What's in this Excel Workbook <---- Click on the links
Registration Management <----
Entering Rotation #'s <---- to the left to find
Officials Information <----
Membership Status Information <---- your way around in
Sports Division Indicators <----
Adding Members to this template <---- these instructions
Exporting your Entry Lists <----
Potential Export Problem <----
Cut-n-Paste Rows -- Excel 101

Overview Information (back to top)
 =====

This NCWSA Registration Template has been pre-populated with most of the information you'll need to set up an NCWSA Tournament for scoring with WSTIMS. It contains multiple sections, whose tabs can be seen at the lower left corner of the Excel window. Click these tabs to move between the sections.

Here is a high-level outline of the steps you'll need to go through with this template to success for your tournament. More details are available in the **Instructions** tab.

Instructions | Men (A tm) | Women (A tm) | Men (B tm) | Women (B tm) | Membership Action Red

1	WSTIMS Rel 3.56+ Model Registration Form (for Collegiate)										-- Membership						
2	Tourn Name:	University of Alabama Spring	ID #:	09U046	TH	SEQ	#S	OFCL	SKR	TR	JP	Sports	Reason				
3	Member ID #	Last-name	1st-name	Team	Dv	Ag	Home City	ST	SL	TR	JP	DJCS	WGT	BT	RH	DivCds	Not Rdyz
7	Team Header	University of Alabama		ALA													
8		University of Georgia		UGA													
9		University of NC Chapel		HNCH													
10		Elon University		ELU													
11		Auburn University		AUB													
12		Georgia Tech		GAT													
14		Little	Laura	ALA	CW		Tuscaloosa	AL	1	1	3					NCW/NP	OK to S
15		Mosley	Jazmine	ALA	CW		Birmingham	AL	4	4	4	ARRS				NCW/AWS	OK to S
16		Page	Courtney	ALA	CW		Kernersville	NC	2	2						NCW/NP	OK to S
17		Briant	Michale	ALA	CW			AU	5	5							
18		Runion	Haley	ALA	CW		McDonald	TN	3	3	5						
20		Nanney	Suzanne	UGA	CW			GA	4	4	3						
21		Prce	Sarah	UGA	CW			GA	3	3	4						
22		Stein	Marlyce	UGA	CW			GA	2	2	5						
23		Hedges	Ashley	UGA	CW			GA	1	1	2						

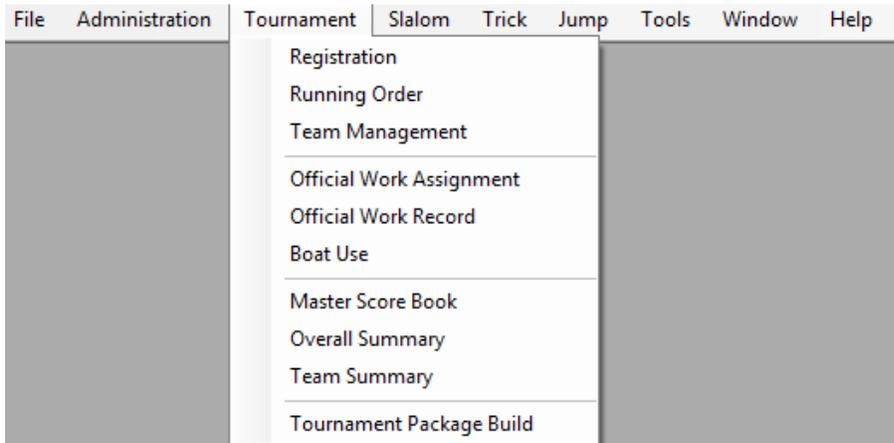
d) **WSTIMS for Windows format** – This is a tab delimited text file which is formatted by the export feature that is available on most windows in the application.

Export_09E043_Registration.txt - Notepad

PK	TourReg MemberId	SanctionId	SkierName	AgeGroup	EntryDue	EntryPaid	PaymentMethod
1		09E043	Lausten, Dan	M3	Y		
2		09E043	Moisan, John	M3	Y		
3		09E043	Smith, Stephen	M3	Y		
4		09E043	Allen, David	M4	Y		
5		09E043	davenport, Peter	M4		Y	
6		09E043	Dymek, Mark	M4	Y		
7		09E043	Goodhue, Christophe	M4		Y	
8		09E043	Knight, David	M4	Y		
9		09E043	Stokes, Albert	M4	Y		
10		09E043	warner, Thomas	M4	Y		
11		09E043	waskowicz, Alan	M4	Y		
12		09E043	Afonso, Rui	M5	Y		
13		09E043	Arnberg, Michael	M5		Y	
14		09E043	Cole, Russell	M5	Y		
15		09E043	Desmarais, Daniel	M5		Y	
16		09E043	Robbins, David	M5	Y		
17		09E043	white, Tom	M5	Y		
18		09E043	Lakin, Bruce	M7	Y		
19		09E043	Kernan, James	M7	Y		

5.3 Tool Bar: Tournament

The *Tournament* is where you will start confirm/change skier *registration* generate *running orders*, maintain *work assignments*, as well as generate the final tournament *reports*. The reports can be generated as paper or an electronic file.



5.3.1 Registration

This feature is used to view and manage registrations, event participation (i.e. Officials).

The window shows all registered members, both skiers and officials, the events each skier is participating in, the assigned event management group for each skier in each event, and the administrative status for each member.

NOTE: Skiers and officials must be registered for a tournament to participate in an event or be assigned as an official. Members registered for the tournament can then be registered for an active tournament event by clicking on the appropriate checkbox. The member's age division will be used as the default event group for the skier. This can be changed at any point before or after running the event to any 6 character value. Event groups are simply a way to manage events for running order and placement purposes.

Member Id	Skier Name	Age Group	Ready Ski?	Slalom	Trick	Jump	Slalom Group	Trick Group	Jump Group	Fee Due	Amt Paid	Payment Method	Weight	Jump Hgt	Trick Boat	Fed Fees
7	Byrne, Matt	M2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	SS		JJ							
2	Byrne, Patrick	OF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
3	Cinilli, Bill	M4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SS	TT	JJ							
1	Cinilli, Rocco	B1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SS	TT								

Alert: A member will not be exported into the Performance Data File at the end of the tournament if the Ready Ski box is not checked off. This box indicates that the skier is a AWSA member, and the Performance Data File is used to update the national ranking lists.

Alert: A member can be removed from an event by simply clicking off the appropriate checkbox. A **warning** will be issued if you are attempting to remove a member from an event where the skier has entered scores. You will be given the opportunity to cancel the request if scores are detected.

5.3.2 Registration: Additional functions available



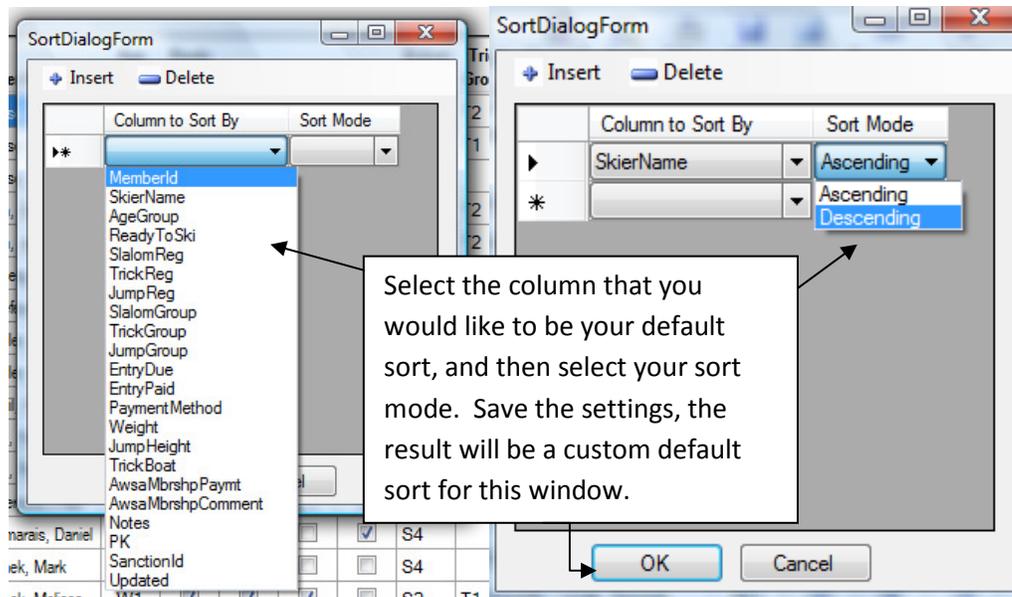
Refresh – Retrieves the registration list and related attributes from the database

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database.

For this window all visible tournament registrations and event Registrations can be exported.

As data is exported pop-up boxes will display so that you can confirm that the correct number of rows are being created in the export file.

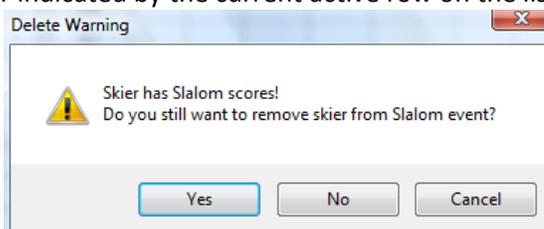
Sort – Allows sort criteria to be specified and applied to the list. This will become your default sort for this window.



Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden. This filter is also applied when the “Export” action is used and at that time only the visible members will be exported.

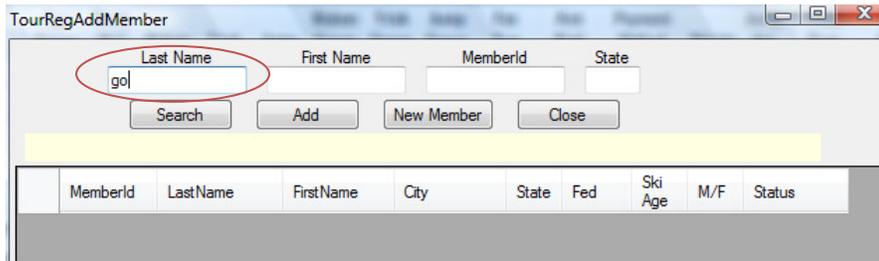
Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

Remove – Used to remove a member from all events and from the tournament. The action is performed on the member indicated by the current active row on the list.

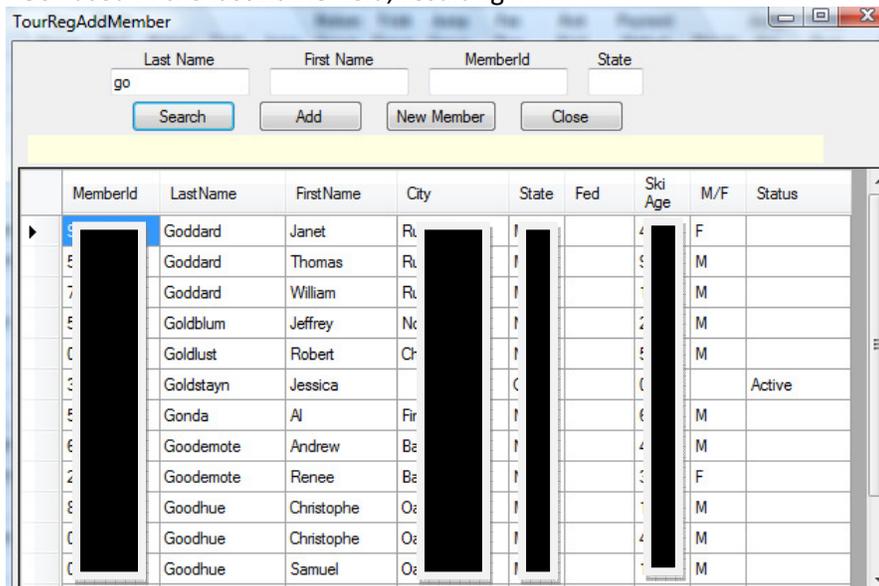


Alert: A warning will be issued if you are attempting to delete a member that has any entered scores. This will allow you the opportunity to cancel the request if scores are detected for any event. The warning message will display for each event that the skier has scores.

Add – Opens a dialog to search for available members by membership number, last name, first name, or state of residence. The search by last name and first name is performed by finding members that start with the supplied characters, meaning that it is not necessary to spell the full name → the function will ‘pattern’ match using a minimal number of letters. All possible results will be returned. Example:



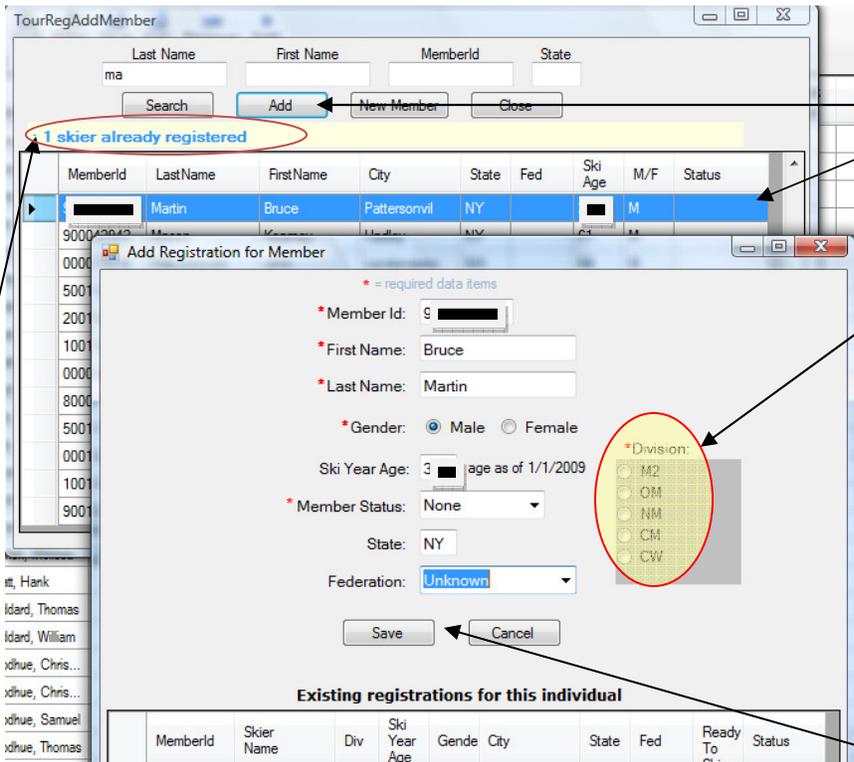
“Go” used in the **last name** field, resulting in:



The search is performed on the members as shown in the Administration / Member List window (see [Member List](#) under the [Administration](#) section of this manual). This means that a member **must** exist in this view before they can be added to the tournament.

Usability tricks: the search is initiated by either **tabbing** away from an available textbox after entering one or more characters or **clicking** on the “**Search**” button will initiate the search if at least one textbox has characters.

Use the “Add” button to register the member that is highlighted in the list.



Double click on row of member that needs to be added. **Click on Add** button.

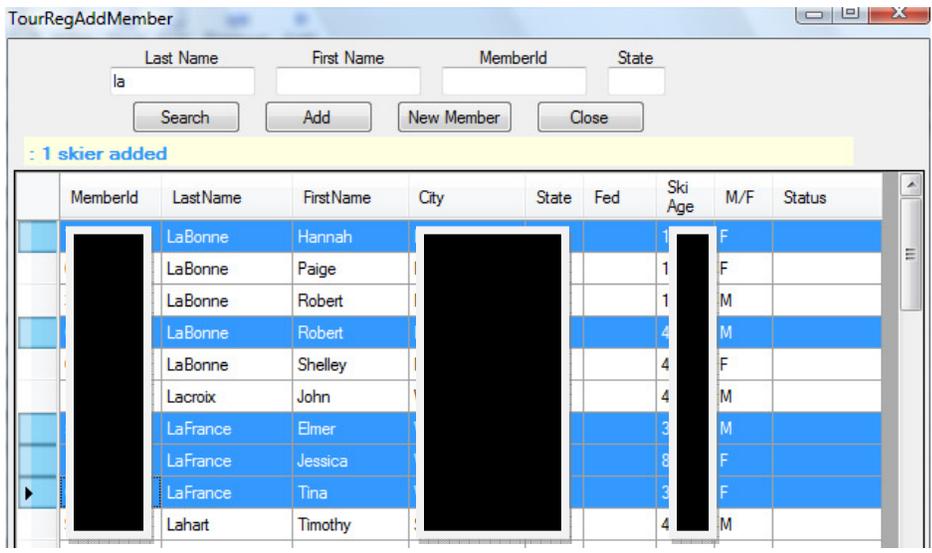
NOTE: The "Division" selection box will display all divisions that the skier is eligible for based on age. It is possible to add a skier to the tournament in more than one division (e.g. M2 and OM). It is also possible in a multi round tournament for a skier to ski in an event in more than one division (e.g. OM slalom in round 1 and M2 slalom in round 2).

Dialogue box in the "Add Member" window will change to show response that a member was added.

New window will display for that member. Fill in the required fields (indicated by **RED asterisk**) and **click the Save** Button.

Adding multiple members at one time, can be accomplished by:

- clicking on the row header to the right of the member id
- using CTRL click to select additional members



Highlighted rows illustrate the rows selected using the "Ctrl" / "CLICK" feature.

The Member Registration window will display starting with the last member you selected, update the required fields, click on the **Save** button; then the next member will display. This process will repeat until all the members you selected have been saved. The dialogue box will show the total number of members added.

Using the Add button will register all selected members for the active tournament.

NOTE: The number of selected members added and the number of already registered members will be displayed in the message area just below the row of action buttons.

NOTE: Registering members for event participation is done after closing this dialog window.

5.3.3 Running Order

This feature is used to establish running orders for all active tournament events, modify some of the attributes about the skier (e.g. event group, running order, team, etc). HCAP base and Handicap values can also be modified on this window.

Go to the [Registration](#) function to change the skier's division (example: move from M1 to OM).

For non-collegiate tournaments the default sort order for all events is "Event Group", "Run Order", "Ranking Score", and "Skier Name". The order can be changed using the "Sort" function (see below) and / or by modifying a skier's run order (Order column). The sort order set in this window will carry over to become the skier order for each event scoring window.

For collegiate tournaments the default sort order for all events is "Age Group", "Run Order", "Ranking Score", "Skier Name".

This list can be printed.

The skier class is defaulted from tournament classification upon registration. A skier can be assigned any class that is considered "Less Than" the tournament class. This means that a skier cannot be assigned a class R if the tournament sanctioned is a class C; however they can be assigned a class C if the tournament is sanctioned as a class R. **NOTE:** the

tournament class for a skier can be set during the registration import process as well. This can be done when using the “Pre Tournament Registration” format. Refer to the [Administration – Import](#) section of this manual.

The handicap base and handicap values are defaulted from the Tournament is set up and can be modified on this screen. See the [Tournament Setup](#) section of this manual for how to enter the initial values. The default value for the ratio is: 95% and the handicap base is the M1 record value per event. These values can be changed on the Tournament Setup window; however the calculation for a skier occurs at the time that the skier is registered for an event. So this means that if you change the values on the Tournament Setup window AFTER skiers are registered the skier values will NOT be recalculated. In order to change the values you will need to change them for the individual skiers here on the Running Order window.

There are radio buttons that can be used to switch between Slalom, Trick and Jump. See Red Box below:

Refresh Print Export Filter Sort Save Run Order

Row 1 of 44 Slalom Trick Jump

Skier Name	Team	Div	Group	Order	Ranking Score	Rating	Class	Jump Ht	Trick Boat	Hcap Base	Handicap	Event
Goodhue, Samuel		B2	S1	1	13.1	S4	C - Compet...			13.1	91.6	Slalom
Goodhue, Thomas		B1	S1	2	24.3	S7	C - Compet...			24.3	80.9	Slalom
Waskowicz, Zachary		B1	S1	3	3.6	S5	F - Fun			3.6	100.6	Slalom
Shaffer, Matthew		B1	S1	4	0.0		F - Fun			0.0	0.0	Slalom
Richards, Marc		B1	S1	5	0.0		C - Compet...			0.0	0.0	Slalom
Waskowicz, Caleigh		G2	S1	5	19.8	S5	C - Compet...			19.8	85.2	Slalom
Goddard, Thomas		B2	S1	5	41.0	S6	C - Compet...			41.0	65.1	Slalom
Bowler, Michael		B2	S1	5	46.4	S6	C - Compet...			46.4	60.0	Slalom

Example of moving from Slalom to Jump:

Refresh Print Export Filter Sort Save Run Order

Row 1 of 16 Slalom Trick Jump

Skier Name	Team	Div	Group	Order	Ranking Score	Rating	Class	Jump Ht	Trick Boat	Hcap Base	Handicap	Event
Abriso, Alex		B3	XX	1	48.6	J5	C - Compet...			48.6	123.9	Jump
Goodhue, Samuel		B2	XX	1	50.4	J7	C - Compet...			50.4	122.2	Jump
Tee, Jennifer		G3	XX	3	0.0		C - Compet...					Jump
White, Tom		M5	XX	5	61.2	J5	C - Compet...			61.2	111.9	Jump
Amberg, Michael		M5	XX	5	62.1	J6	C - Compet...			62.1	111.1	Jump
Goddard, Thomas		B2	XX	5	63.3	J8	C - Compet...			63.3	109.9	Jump

5.3.4 Running Order: Additional Functions



Print – Prints the running orders for posting and for the judges.

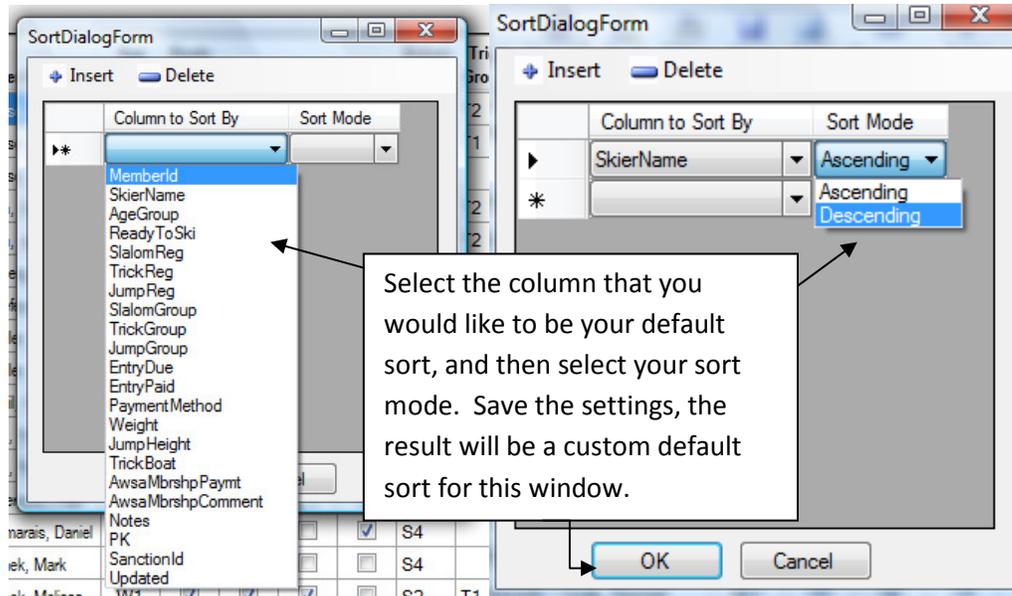
Refresh – Retrieves the registration list and related attributes from the database

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. As data is exported pop-up boxes will display so that you can confirm that the correct number of rows are being created in the export file.

Run Order – Used to export the data to a file that is specific file format to conform to the DOS WSTIMS application, meaning this function replicates the file format created by the DOS version of the application.

Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden. This filter is also applied when the “Export” action is used and at that time only the visible members will be exported.

Sort – Allows sort criteria to be specified and applied to the list. This will become your default sort for this window.



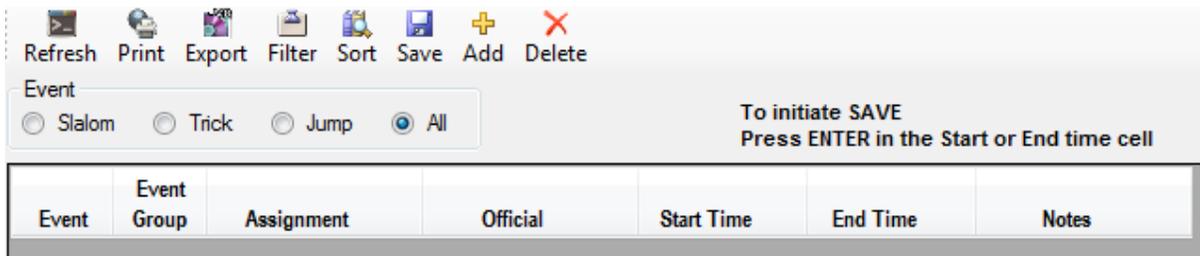
Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

5.3.5 Official Work Assignment

This window is used to record official work assignments. Each assignment is made by event, event group, and assignment. When the assignment is made the start time will default to the current time but this can be edit to reflect the actual time if this entry is being added in preparation of an event or after the fact. The end time is an optional field but can be used for audit purposes. The member assigned to the work position is done by clicking in the official column which will show the tournament member list. Double click or position on the member and hit enter to have the desired member assigned to the current work position. All assignments made in this window will be recorded for use by the official credit export and the official work report. Only members registered for the tournament can be assigned to a work position. A non skiing member can be added in the tournament registration window.

Note that indication of chief official, assistant chiefs, and appointed officials are marked using the [Official Work Record](#) window.

Default Window:



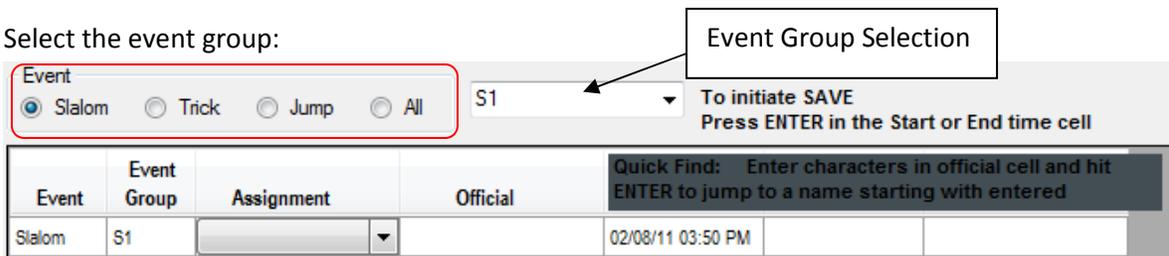
5.3.6 Official Work Assignments: additional functions



Add – Adds a new row to the bottom of the grid to add a new work assignment. The row will default the event and event group to the same values as the previous row.

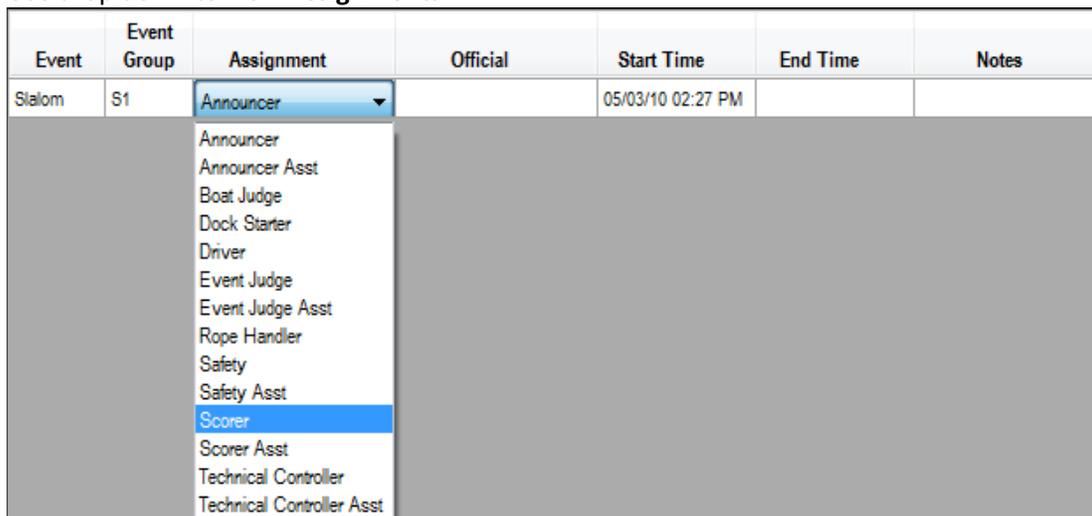
- a) Select an event, see Red Box below. NOTE that if you do not then you will receive an error message stating that you must select an event before proceeding.
- b) Click on **Add** button.

Select the event group:



The start time for the official's defaults to the current time under the assumption that officials are being added as the event is going on which is the ideal.

- c) Use drop down to view **Assignments**



- d) Pattern match to find the official's name

Helpful hint: Type in the first 3 characters of the person's last name and hit enter. You will be brought to the first person that has those three characters. Double click on the row that you want to select as the official.

Example below shows that "All" was entered in the **Official** field; then after hitting enter the first person with "All" is highlighted in the list of possible selections.

The screenshot shows a software window with a table and a search field. The table has columns: Event, Event Group, Assignment, and Official. The 'Official' field contains 'All'. A dropdown list is open, showing a list of names: Afonso, Alex; Afonso, Chris; Afonso, Rui; Allen, David (highlighted); Allen, Jennifer; Arnberg, Michael. A callout box points to the search field with the text: 'Helpful Hint is noted on the window.'

- e) After selecting the official, your results will display in the window. Continue until all your officials are added. **NOTE** this process can occur at anytime during the tournament.

Delete – Delete work assignment row.

Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden. This filter is also applied when the "Export" action is used and at that time only the visible members will be exported.

Sort – Allows sort criteria to be specified that are applied to the list.

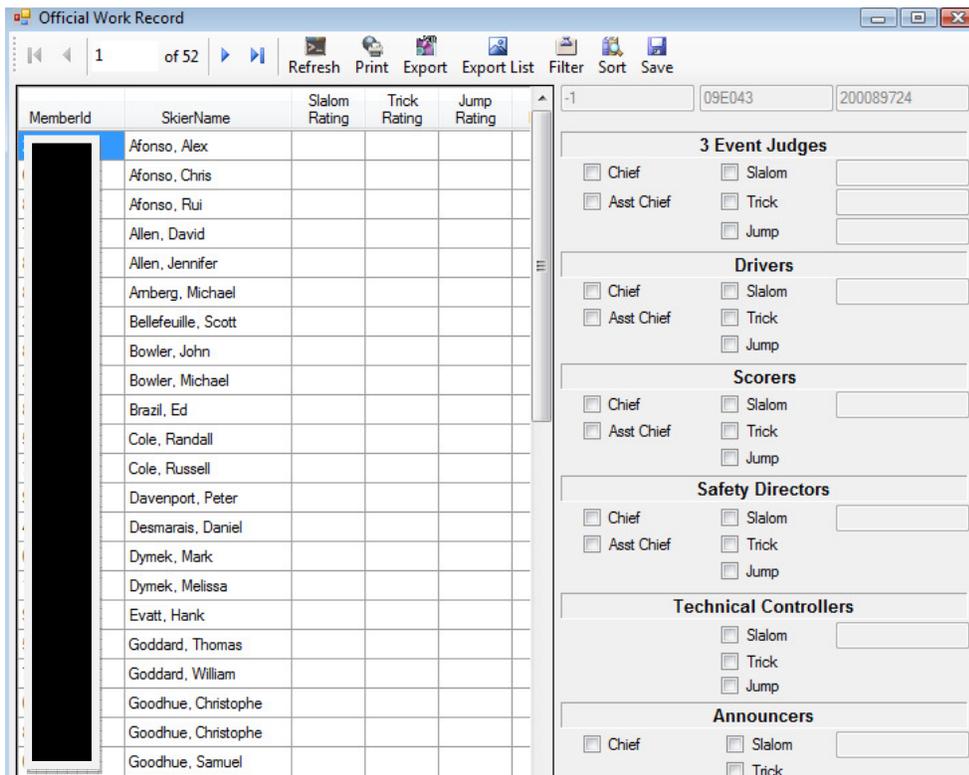
Print – Prints the list of all work assignments as shown on the window. This report acts as an audit log of tournament assignments.

Refresh – Retrieves the registration list and related attributes from the database.

5.3.7 Official Work Record

This feature is used to identify all tournament officials and the activities each person worked as an official. It shows a list of all members registered for the tournament with a dialog to record what tasks were performed for credit.

Example of the default window that displays:



5.3.8 Official Work Record: additional functions



Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden. This filter is also applied when the “Export” action is used and at that time only the visible members will be exported.

Sort – Allows sort criteria to be specified that are applied to the list.

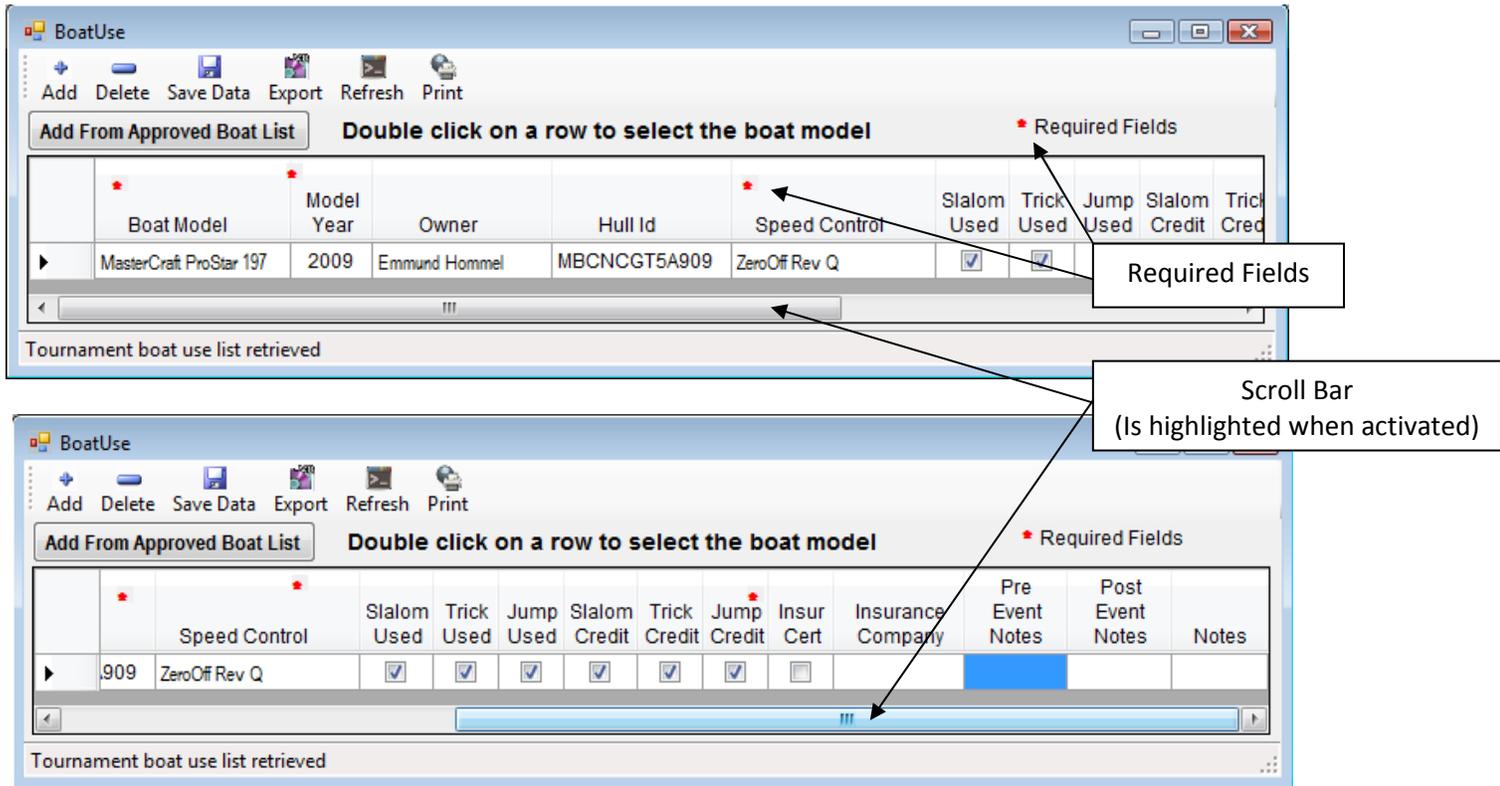
Print – Prints the list of all work assignments as shown on the window. This report acts as an audit log of tournament assignments.

Refresh – Retrieves the registration list and related attributes from the database.

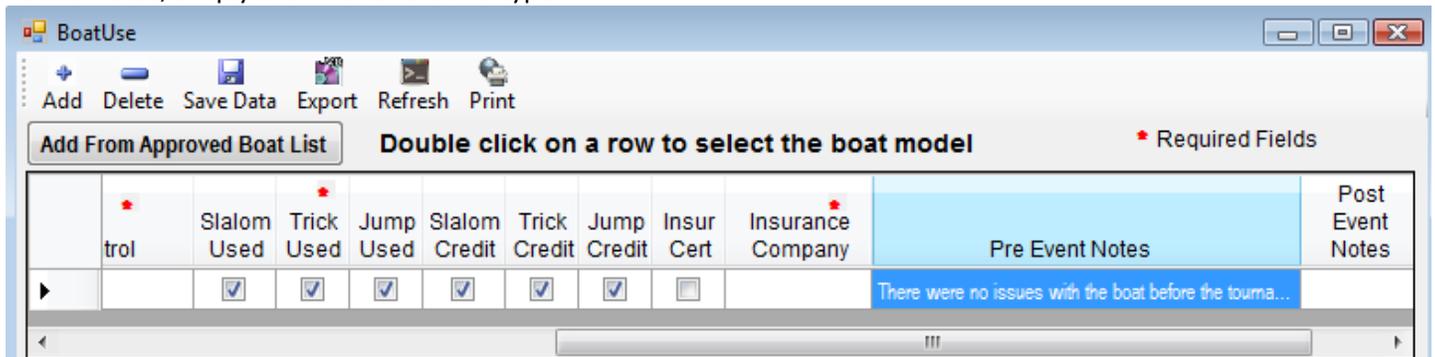
5.3.9 Boat Use

This feature is used to record specific details about the boats that are used during the tournament, for example: boat model, year, brand/version of speed control. A boat shall receive credit for the events pulled unless its performance is deemed unacceptable for tournament use.

Required fields, annotated by the red asterisk, must be filled in before you can save a new entry. There are also fields that can be used to collect notes about the boat, both before (pre) the tournament and afterwards (post). You can use the scroll bar at the bottom of the screen to move to the right and back to the left as there is more information than can be displayed on the screen.



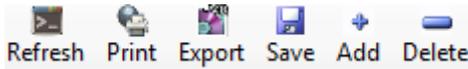
To add notes, simply click in the field and type:



NOTE the “notes” field will truncate in the field. This is illustrated above where the sentence ends in “...”. To see the entire text you can change the size of the field, or click in the field and move your cursor to the left or right respectively.

To change the field size, bring your cursor on the “vertical line” between the column title until you see a “↔”; when you see this symbol click on it and drag to the right to lengthen the field or to the left to shorten the field.

5.3.10 Boat Use: additional functions



Add – Adds a new row. The following window will appear after you click on the Add button:

Add From Approved Boat List **Double click on a row to select the boat model** * Required Fields

	Boat Model	Model Year	Owner	Hull Id	Speed Control	Slalom Used	Trick Used	Jump Used	Slalom Credit	Trick Credit	Jur Credit
▶	MasterCraft ProStar 197	2009	Emmund Hommel	MBCNCGT5A909	ZeroOff Rev Q	<input checked="" type="checkbox"/>					

Boat Model	Engine Mfr. & Model	Speed Control	Hull Status	Boat Code
Correct Craft 196 w/ or w/o Hydro-Gate	Engine:PCM Excalibur 5.7L	ZO	New	CC196-57-ZO
Correct Craft 206 w/ or w/o Hydro-Gate	PCM ZR6 6.0L	ZO	New	CC206-60-ZO
Malibu Response LXi	Indmar Monsoon 5.7L Indmar	ZO	Unmodified	MALXI-57-ZO
Malibu Response LXi	Indmar Monsoon 5.7L Indmar	PP 6.5ng	Unmodified	MALXI-57-PS
Malibu Response LXi	Indmar Monsoon 5.7L Indmar	ZO	Unmodified	MALXI-62-ZO
Malibu Response LXi	Indmar Monsoon 5.7L Indmar	PP 6.5ng	Unmodified	MALXI-62-PS

Scroll Bar

You can use the scroll bar to the left to move up and down the list. After locating the row that has the information that matches the boat you need to add, then double click on the row. This will add a new boat to the list of boats used in the tournament. Example:

Add From Approved Boat List * Required Fields

	Boat Model	Model Year	Owner	Hull Id	Speed Control	Slalom Used	Trick Used	Jump Used	Slalom Credit	Trick Credit	Jur Credit
	MasterCraft ProStar 197	2009	Emmund Hommel	MBCNCGT5A909	ZeroOff Rev Q	<input checked="" type="checkbox"/>					
▶	Correct Craft 196 w/ or ...				ZO	<input type="checkbox"/>					

After double clicking on “Correct Craft 196 w/ or w/o Hydro-Gate”, the new row displays. Again, required fields need to be filled in before saving.

In the situation where the boat being used isn’t found in the list, use the “undefined” row in the pop-up window. Using your cursor click in the field for Boat Model and type in the type of boat, duplicate this process for the other fields. Then double click to add it to the list of boats used in the tournament. For example:

Add From Approved Boat List **Double click on a row to select the boat model** * Required Fields

	Boat Model	Model Year	Owner	Hull Id	Speed Control	Slalom Used	Trick Used	Jump Used	Slalom Credit	Trick Credit	Jur Credit
	MasterCraft ProStar 197	2009	Emmund Hommel	MBCNCGT5A909	ZeroOff Rev Q	<input checked="" type="checkbox"/>					
▶	Correct Craft 196 w/ or ...				ZO	<input type="checkbox"/>					

Boat Model	Engine Mfr. & Model	Speed Control	Hull Status	Boat Code
MasterCraft ProStar 214	Indmar MCX 5.7L	ZO	Unmodified	MC207-57-ZO
MasterCraft ProStar 214	Indmar MCX 5.7L	PP 6.5ng	Unmodified	MC207-57-PS
MasterCraft 214V	Indmar MCX 5.7L	ZO	New	MC214V-57-ZO
Moomba Outback	Indmar Assault 5.7L	PP 6.5ng	New	Outback-57-PS
Moomba Outback	Indmar Assault 5.7L	PPSG	New	Outback-57-PS
Undefined				Undefined

Scroll to the end of the list of possible boat models to select from. Click in the “undefined” field and add the information. Example of adding a boat to select from is below.

Add From Approved Boat List **Double click on a row to select the boat model** * Required Fields

Boat Model	Model Year	Owner	Hull Id	Speed Control	Slalom Used	Trick Used	Jump Used	Slalom Credit	Trick Credit	J
MasterCraft ProStar 197	2009	Emmund Hommel	MBCNCGT5A909	ZeroOff Rev Q	<input checked="" type="checkbox"/>					
Correct Craft 195				ZO	<input type="checkbox"/>					

Boat Model	Engine Mfr. & Model	Speed Control	Hull Status	Boat Code
MasterCraft ProStar 214	Indmar MCX 5.7L	ZO	Unmodified	MC207-57-ZO
MasterCraft ProStar 214	Indmar MCX 5.7L	PP 6.5ng	Unmodified	MC207-57-PP
MasterCraft 214V	Indmar MCX 5.7L	ZO	New	MC214V-57-ZO
Moomba Outback	Indmar Assault 5.7L	PP 6.5ng	New	Outback-57-PP
Moomba Outback	Indmar Assault 5.7L	PPSG	New	Outback-57-PPSG
Joe's Boat	Fast Engine	Manual	Tri-Haul	

Once the new boat is added to the selection list, you can double click on the boat model to add it to your list of boats used in the tournament. Example is below.

* Required Fields

Boat Model	Model Year	Owner	Hull Id	Speed Control	Slalom Used	Trick Used	Jump Used	Slalom Credit	Trick Credit	Jur
MasterCraft ProStar 197	2009	Emmund Hommel	MBCNCGT5A909	ZeroOff Rev Q	<input checked="" type="checkbox"/>					
Joe's Boat				Manual	<input type="checkbox"/>					

Delete – Deletes the row that is highlighted.

Save – Saves changes. Generally this is not necessary because automatic saves are performed at frequent intervals.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

Refresh – Retrieves the registration list and related attributes from the database.

Print – Prints the list of all work assignments as shown on the window. This report acts as an audit log of tournament assignments.

5.3.11 Master Score Book

This report shows the results of all skiers, across all events, and includes all rounds for the tournament. The list is sorted by skier name and event round. There are no sort options and is only intended for reporting all tournament scores in a standard format required when submitting the tournament package to Headquarters.

For best results when printing this report is to select the PDF writer described in the [installation section](#) as the printer selection. When prompted the file must be saved with a name of [sanction]SB.pdf (the application is not able to default the name).

Ultimately, the report needs to be saved in a standard tournament output folder.

File Administration Tournament Slalom Trick Jump Tools Window Help

Refresh Print Export Html

Points Calculation Method

NOPS Placement 1000 Base Base Ratio

Slalom										Trick			Jump	
SkierName	Div	Class	Buoy	Rope	Rope	MPH	KPH	Score	Points	Class	Score	Points	Class	Feet
Goodhue, Thomas	B1	C	5.00	Long	23.00	26.7	43	41.00	882.7	C	240	529.5		
	B1	C	5.00	Long	23.00	24.9	40	35.00	779.9					
Richards, Marc	B1	C	4.00	Long	23.00	21.1	34	22.00	539.8					
	B1	C	5.00	Long	23.00	21.1	34	23.00	559.4					
Shaffer, Matthew	B1	F	3.00	Long	23.00	28.6	46	45.00	949.2					
	B1	F	2.00	Long	23.00	26.7	43	38.00	831.8					
Waskowicz, Zachary	B1	F	5.00	Long	23.00	15.5	25	5.00	120.0					
	B1	F	3.00	Long	23.00	15.5	25	3.00	72.0					
Afonso, Chris	B2	C	4.00	-15	18.25	34.2	55	64.00	508.6	C	1,120	590.5		
	B2	C	.50	-15	18.25	34.2	55	60.50	449.9					
Bowler, Michael	B2	C	3.50	Long	23.00	30.4	49	51.50	318.7					
	B2	C	2.00	Long	23.00	30.4	49	50.00	299.6					
Goddard, Thomas	B2	C	1.50	Long	23.00	28.6	46	43.50	225.3	C	940	544.7	C	59
	B2	C	2.00	Long	23.00	30.4	49	50.00	299.6				C	58

Tournament entries retrieved

MasterSummaryV2 open

5.3.12 Master Score Book: Points Calculation Method

Use the following options can be used to specify how the points are calculated for each event based on the tournament being scored. A selection needs to be made before final documents are created for the tournament package. The default for AWSA and collegiate tournaments is *NOPS*, and *1000 Base* for IWWF tournaments.

Row 1 of 9999 All Select a division and click Refresh icon

Points Calculation Method

NOPS Placement 1000 Base Base Ratio

Placement

Div Div/Group

Slalom										Trick			Jump								
SkierName	Div	Group	Class	Buoy	Rope	Rope	MPH	KPH	Score	Points	Plcmt	Class	Pass1	Pass2	Score	Points	Plcmt	Class	Ht	Spd	Feet

NOPS – The AWSA National Overall Performance Standard (NOPS). A skier’s points per event are based on the skier’s raw score multiplied by an age division factor per event.

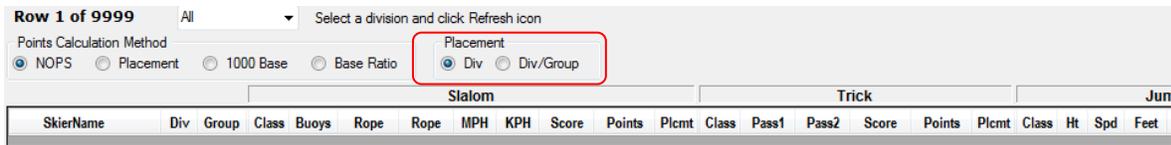
Placement – Placement is a method used to determine an overall score by awarding a skier 10 points per placement position times the number of skiers in an event (e.g. the first place skier receives 100 points for an event with 10 skiers participating).

1000 Base – 1000 Base is generally used in IWWF tournaments where the highest score for an event is given 1000 overall points and the overall points for a skier is equal to 1000 times the ratio of the skier score divided by the high score.

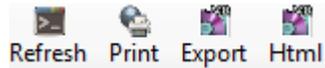
Base Ratio - Base Ratio is a handicap method where a skiers overall points for an event is equal to 100 times the ration of the skiers score divided by the national ranking average. Meaning the skier’s points for an event is based on the ratio of their raw event score divided by their handicap base (generally this is equal to the National Ranking Score unless manually modified in the running order window) multiplied by 100.

5.3.13 Master Score Book: Placement

This feature allows you to group the information by age division or combination of age division/event groups, which can be used when printing the information on the window.



5.3.14 Master Score Book: additional functions



Refresh – Retrieves the registration list and related attributes from the database.

Print – Prints the list as shown on the window.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

HTML – Used to export data to an HTML format for web display. For this window all visible entries are exported.

5.3.15 Overall Summary

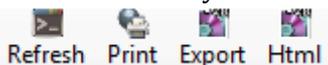
This report shows the results of all skiers across all events based on an overall score. There are a variety of filtering, calculating, and sorting options for this report.

		Slalom				Trick				Jump			Overall	
SkierName	Div	Qual	Class	Score	Points	Class	Score	Points	Class	Feet	Meters	Points	Score	Rd
Goodhue, Christophe	B2	Yes	C	75.50	732.3	C	1,320	636.8	C	75	22.9	784.2	2,153.3	2
Evatt, Hank	B3	Yes	C	86.00	478.8	C	1,640	534.7	C	94	28.6	468.7	1,482.2	1
Cole, Randall	M1	No	C	97.00	746.6				C	116	35.5	680.8	1,427.4	1
Goodhue, Thomas	B1	No	C	41.00	882.7	C	240	529.5					1,412.2	1
Bellefeuille, Scott	M3	No	C	97.50	697.5				C	127	38.6	668.0	1,365.5	1
Goddard, Thomas	B2	Yes	C	50.00	299.6	C	940	544.7	C	59	18.0	520.8	1,365.1	2
Goddard, William	B2	No	C	57.50	403.1				C	75	23.0	784.2	1,187.3	2
Afonso, Chris	B2	No	C	64.00	508.6	C	1,120	590.5					1,099.1	1
Goodhue, Christophe	M4	No	C	91.50	484.9				C	102	31.1	596.0	1,080.9	1
Shaffer, Matthew	B1	No	F	45.00	949.2								949.2	1
Kokernak, James	MM	No							C	154	46.9	909.4	909.4	2
Afonso, Alex	B3	Yes	C	80.00	366.6	C	660	364.5	C	43	13.2	76.7	807.8	2
Goodhue, Samuel	B2	Yes	C	23.00	79.4	C	160	241.2	C	50	15.2	381.3	701.9	2

There are several sections on this window (noted by the red boxes above) that can be used to change the information that is presented. These options can be selected on the fly and do not need to be set prior to the tournament starting. Simply use these options to determine how the overall scores will be calculated.

- a) **Scores to use:** This allows you to select how you want to calculate a skier's overall score across the events and determine a skier's tournament placement across the events (i.e. overall score).
 - Best** –The skier's best tournament score per event.
 - Round** –The skier's score for each round and each event.
 - Final** – The skier's score for the tournament's final round per event.
- b) **Points Calculation Method:** A skier's overall score is calculated as the sum of the points for each event. This option specifies how the points are calculated for each event.
 - NOPS** – The AWSA National Overall Performance Standard (NOPS). A skier's points per event are based on the skier's raw score multiplied by an age division factor per event.
 - Placement** – Points are award based on a skier's event placement context of the placement method specified. Points are based on 10 points for each skier participating in the event.
 - 1000 Base** – Points are awarded based on the ratio of a skier's score to the best score in the event in context of the placement method.
 - Base Ratio** - The skier's points for an event is based on the ratio of their raw event score divided by their handicap base (generally this is equal to the National Ranking Score unless manually modified in the running order window) multiplied by 100.
- c) **Placement Method:** When determining a skier's placement use the following value:
 - Points** – Use the points calculated by the "Points Calculation Method" for each skier and each event in calculating an overall score.
 - Base Ratio** – The skier's points for an event is based on the ratio of their raw event score divided by their handicap base (generally this is equal to the National Ranking Score unless manually modified in the running order window) multiplied by 100.
 - Handicap** - The skier's points for an event is the total of a skier's raw event score plus their handicap value (the handicap value is 95% of the difference between a skier's National Ranking Score and the M1 / W1 open rating score).
- d) **Placement:** Determines the context of event and overall placements. This means whether placements are in context of event groups or the tournament as a whole.
 - Div** – Placements are determined in context to event groups/divisions.
 - No Groups** – Placements are determined in context to the tournament as a whole.

5.3.16 Overall Summary: additional functions



Refresh – Retrieves the registration list and related attributes from the database.

Print – Prints the list as shown on the window.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

HTML – Used to export data to an HTML format for web display. For this window all visible entries are exported.

5.3.17 Team Summary

This feature shows the results of all skiers across all events based on teams. There are a variety of filtering, calculating, and sorting options for this report.

There also are buttons that can be used to view skiers within a selected team or to return to view all skiers. Team scores are based on the top “X” number of scores with the “X” number being set by the user.

The available options are separated into the following 4 sections with available options:

The screenshot shows a software window with a menu bar (File, Administration, Tournament, Slalom, Trick, Jump, Tools, Window, Help) and a toolbar (Refresh, Print, Export, Html). Below the toolbar are four red-bordered sections:

- Scores to Use:** Best, Total
- Points Calculation Method:** NOPS, 1000 Base, Placement, Base Ratio
- Placement Method:** Points, Base Ratio, Handicap
- Placement:** By Group, No Groups

Below these sections is a "Number of Scores Per Team:" input field set to 0, and two buttons: "Show Team Skiers" and "Show All Skiers".

The main area is divided into three sections:

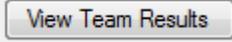
- Team Summary Table:**

Team	Slalom	Trick	Jump	Total
- Slalom Results Table:**

Skier Name	Team	Score	Points	Plcmt
43 Shaffer, Matthew		45.00	430.0	1
Goodhue, Thomas		41.00	420.0	2
Cole, Randall		97.00	410.0	3
Goodhue, Christophe		75.50	400.0	4
Bellefeuille, Scott		97.50	390.0	5
- Trick Results Table:**

Skier Name	Team	Score	Points	Plcmt
7 Goodhue, Christophe		1,320	70.0	1
Afonso, Chris		1,120	60.0	2
Goddard, Thomas		940	50.0	3
Evatt, Hank		1,640	40.0	4
Goodhue, Thomas		240	30.0	5
- Jump Results Table:**

Skier Name	Team	Feet	Meters	Points	Plcmt
16 Kokernak, James		154	46.9	160.0	1
Goddard, William		75	23.0	150.0	2
Goodhue, Christophe		75	22.9	150.0	2
Cole, Randall		116	35.5	130.0	4
Bellefeuille, Scott		127	38.6	120.0	5

There is also a  button; this allows you to view overall team results. Example of the additional information that can be seen when you view team results:

The screenshot shows the "View Team Results" button highlighted. Below it is a "Number of Scores Per Team:" input field set to 0, and two buttons: "Hide Team Results" and "Show All Skiers".

The main area displays a table with the following columns: Te..., Slalom, Trick, Jump, Overall, Skier - Slalom, Score, PI, Pts, Skier - Trick, Score, PI, Pts, Skier - Jump, Score, PI, Pts.

To change the screen back to show the skiers down the right hand side, simply click on **Hide Team Results** button.

The screenshot shows the "View Team Results" button highlighted. Below it is a "Number of Scores Per Team:" input field set to 0, and two buttons: "View Team Results" and "Show All Skiers".

The main area displays a table with the following columns: Team, Name, Slalom, Trick, Jump, Total. To the right, under "Slalom:", there is a table with columns: Skier Name, Div, Team, Score, Points.

The sections on this window (noted by the red boxes above) that can be used to change the information that is presented. These options are the same as seen in Tournament → [Overall Summary](#) section; the only exception is that you cannot calculate overall scores by round.

5.3.18 Tournament Package Build

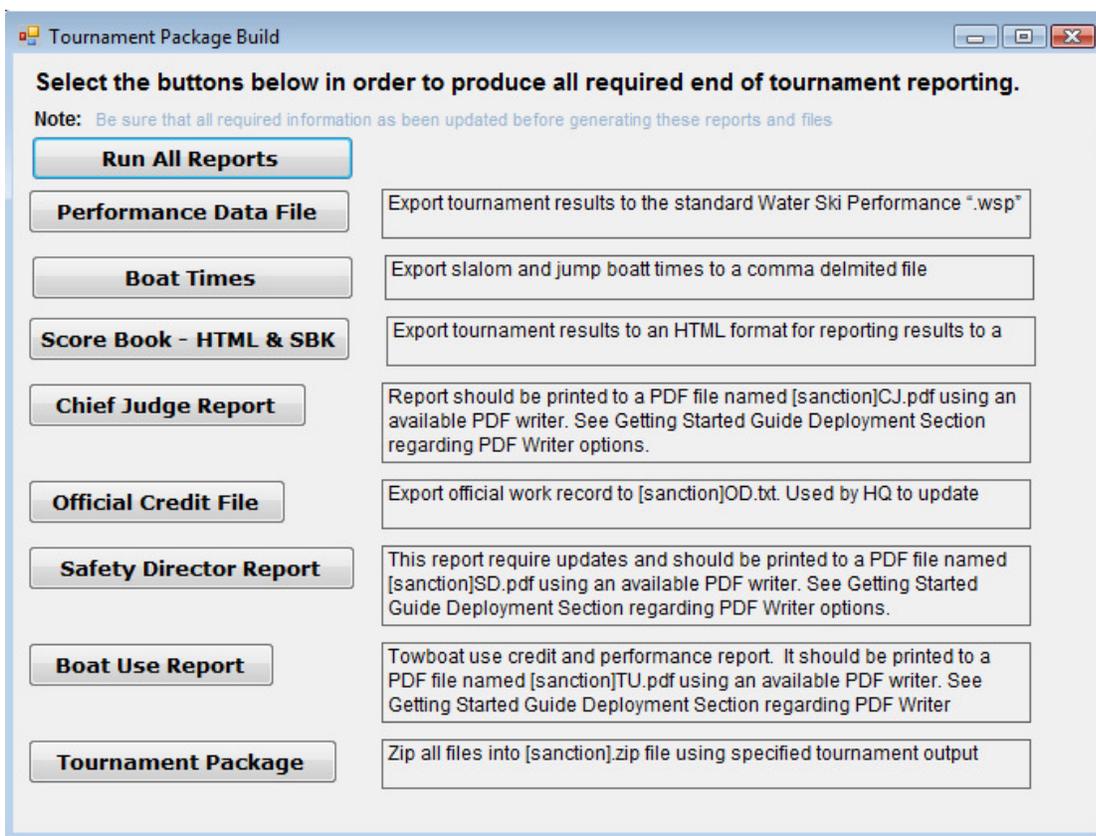
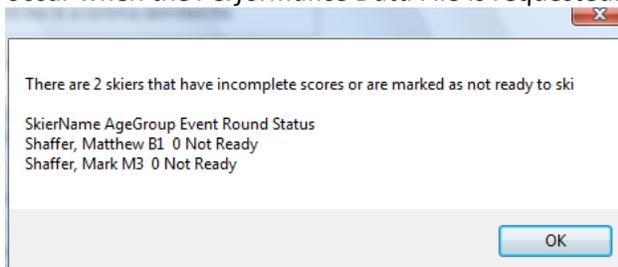
Use this function to generate the required reports and files for Headquarters (HQ).

There is a series of buttons; each will launch a pop-up window to produce the appropriate artifact (all items can also be produced from the Tournament main menu). Each artifact should be saved to the same folder on your computer.

After all artifacts have been produced use the Tournament Package *button* to generate a zip file which will be saved in the same folder as the artifacts. This is the zip file that is to be emailed to HQ and your regional seeding representative.

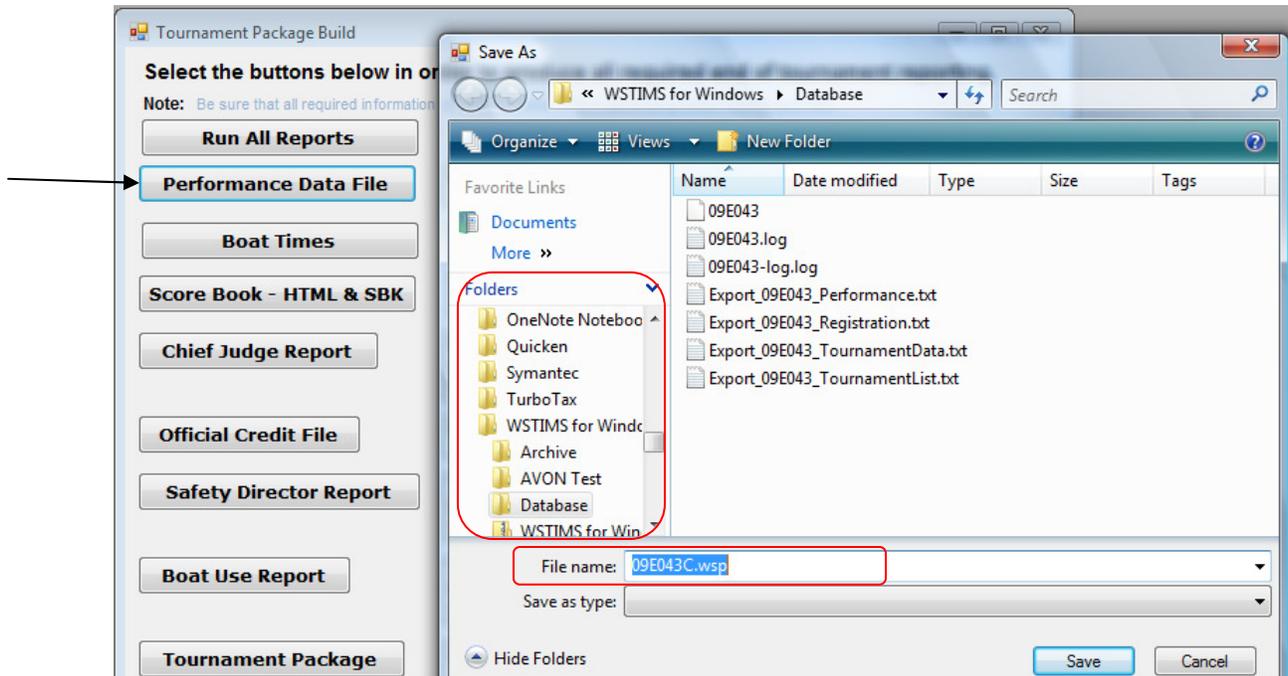
NOTE: A key component to producing all the required reports as files is to have installed the PDF Writer as described in the [System Requirements](#) section of this document.

Alert: There is a reconciliation process that is triggered when you initiate the Tournament Package Process, this reconciliation process checks for any incomplete skier scores, skier scores with errors or skiers marked as not ready. This check can result in a warning message if there are issues that are identified. This same check will occur when the *Performance Data File* is requested. Example of the pop up window:

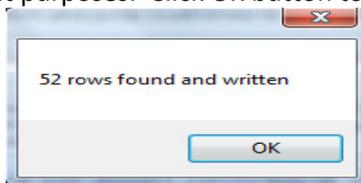


Example of generating the files:

Click on “Performance Data File”, and the following pop-up window will display. Confirm the file name and location to save the artifact. Click on the Save button to save the file.



As you save the files, pop-up message boxes will display with the number of rows/records being saved. This is for audit purposes. Click OK button to continue. Example:



Run All Reports: will create all reports and you will be prompted through each artifact.

Performance Data (required): This feature is used to export tournament results to the standard Water Ski Performance “.wsp” file that is used to update the National Ranking List. This is a HQ required file and must be saved with a name of [sanction][class].wsp. The application will default to this name when creating the file. It should be saved in a standard tournament output folder.

Boat Times (required): creates a separate PDF file containing the boat times for Slalom, Trick and Jump. NOTE that a CSV or TXT file can also be generated.

Score Book (required): This feature is used to export tournament score book to the HTML format, “.htm” and standard score file format, “.sbk”.

- must be saved with a name of [sanction]_ScoreBook.htm
- must be saved with the same of [sanction].sbk

These are HQ required files the application will default the file names. Files should be saved in a standard tournament output folder.

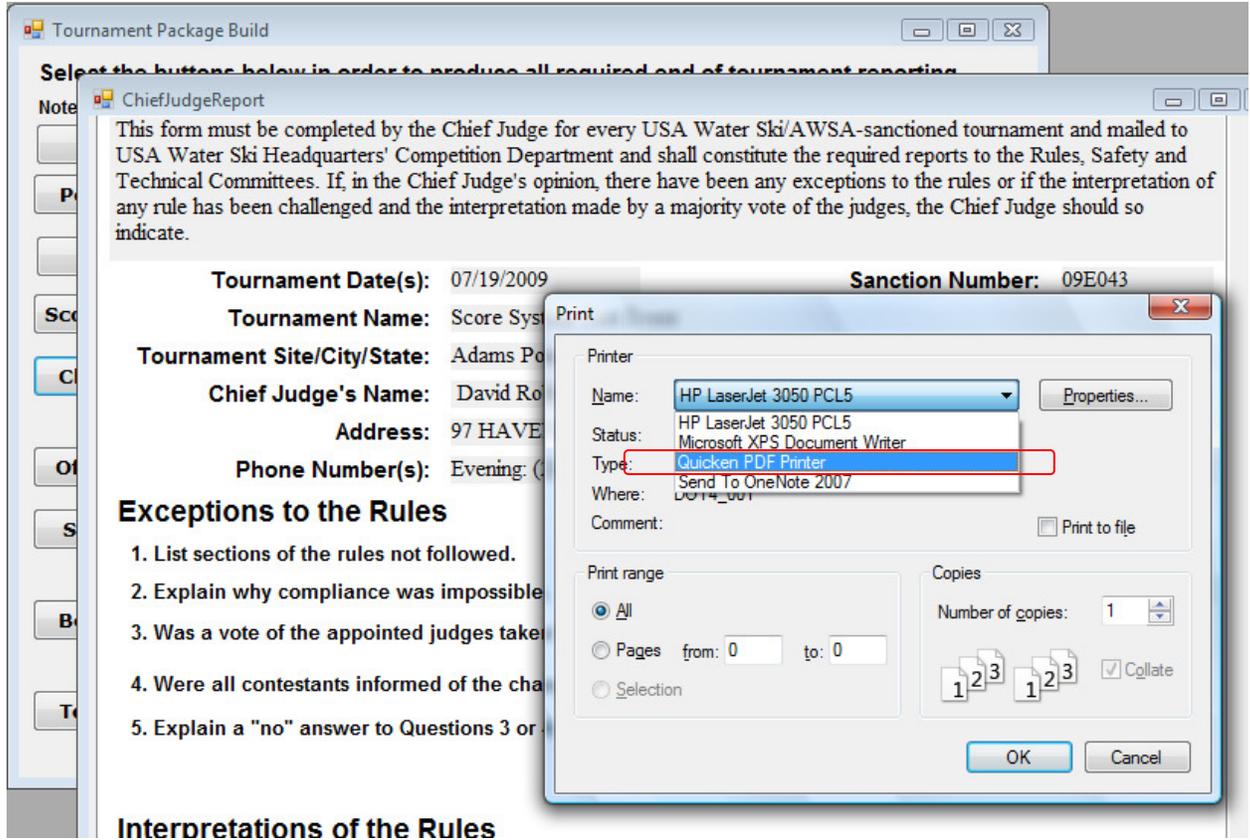
Chief Judge Report (duplicate): This is a view only report intended to duplicate the HQ required document.

The best method for printing this report is to select the PDF writer described in the [System Requirements](#) section as the printer selection. When prompted the file must be saved with a name of [sanction]CJ.pdf (the application is

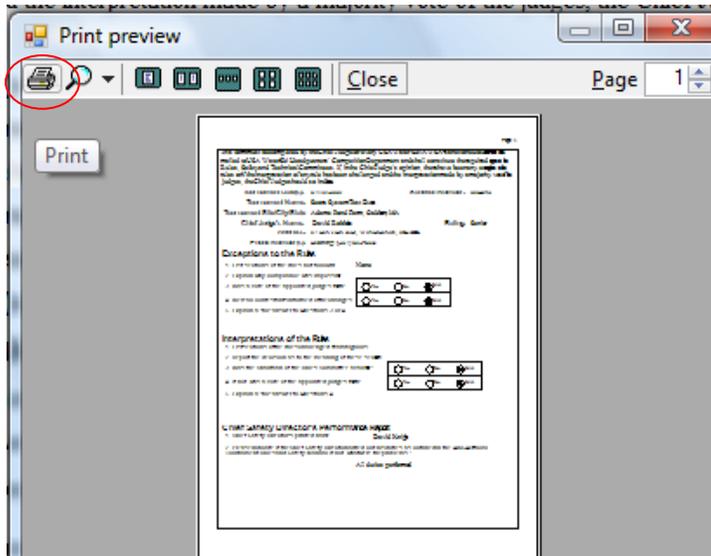
not able to default the name). It should be saved in a standard tournament output folder. NOTE that a CSV or TXT file can also be generated.

The data used for this report is generated by data that is input and managed in other windows of the application. Most of the data should be input or modified in the Tournament List tournament edit window. The “Event Tech Info”, “Rule Exceptions”, and “Chief Official Contact Info” buttons should be used to manage the bulk of the information for this report.

Example of generating the report:



Click on the Print button to save the file:

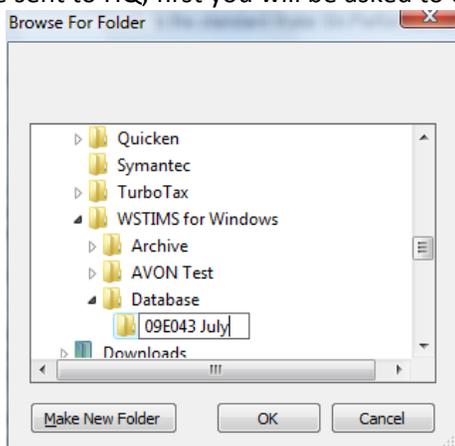


Official Credit File (required): This feature is used to export the official's work record to the standard official's credit file. This is a required HQ file and is used to update each official's work history. It must be saved with a name of [sanction]OD.txt. The application will default to this name when creating the file and it should be saved in a standard tournament output folder.

Safety Directors Report (required): This is a view only report intended to be the HQ required Safety Director's Report. Most of the information for this report is input and maintained in the Tournament List tournament edit window. Some information is required to be input and maintained in this report window. The "Club's Name", "Number of Injuries Requiring First Aid or Hospital Care", and the entire Safety Director's Checklist are input and maintained in this window. Again, this is a report that will need to be saved as a PDF file and to the standard tournament output folder. Follow the instructions found in the [Chief Judge Report](#). Note that a CSV or TXT file can also be generated.

Boat Use Report (required): This is a view only report intended to be the HQ required Towboat Use Documentation and Performance Report. The information for this report is input and maintained in the "Tournament" / "Boat Use" window. Again, this is a report that will need to be saved as a PDF file. Follow the instructions found in the [Chief Judge Report](#). When prompted the file must be saved with a name of [sanction]TU.pdf (the application is not able to default the name). It should be saved in a standard tournament output folder.

Tournament Package (required): creates a zip file of required documents found in the tournament folder that must be sent to HQ; first you will be asked to confirm the folder that holds all the artifacts:

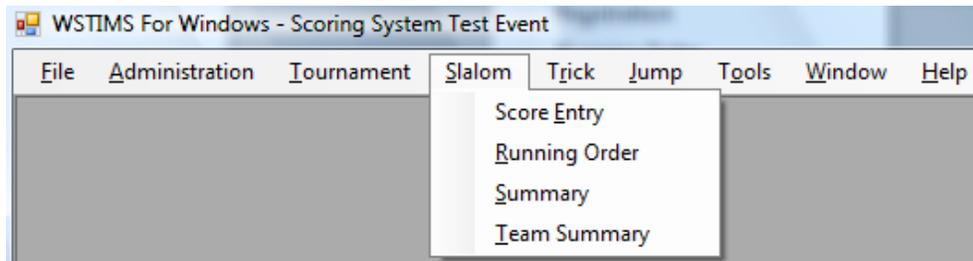


You can use internet explorer to locate the zip file:

Name	Date modified	Type	Size
09E043C.zip	5/12/2010 11:42 AM	Compressed (zipp...	340
09E043C_ScoreBook.htm	5/12/2010 11:37 AM	HTML Document	30
09E043C.sbk	5/12/2010 11:38 AM	SBK File	13
09E043BT.txt	5/12/2010 11:37 AM	Text Document	26
09E043JT.txt	5/12/2010 11:37 AM	Text Document	15
09E043-log.log	5/12/2010 11:38 AM	Text Document	1
09E043OD.txt	5/12/2010 11:41 AM	Text Document	1
09E043ST.txt	5/12/2010 11:37 AM	Text Document	31
WWParm.txt	5/12/2010 11:42 AM	Text Document	1
09E043C.wsp	5/12/2010 11:37 AM	WSP File	11
09E043C.xps	5/12/2010 11:42 AM	XPS document	332

5.4 Tool Bar: Slalom

Slalom is where you will score the event, produce the *running orders* and show/print result *summaries*.



5.4.1 Slalom: Score Entry Navigation

This feature is used to enter all slalom scores. Currently the window supports all required functionality and rules for AWSA, Collegiate and IWWF tournaments.

Below is a screen that shows a tournament in progress. There are three basic sections of the screen:

- 1) Skier roster (indicated by blue box below) – shows all the skiers in the event.
- 2) Active scoring window for blue highlighted skier (indicated by green box below) – shows the specifics for the current skier.
- 3) Reference Information (indicated by red box below) – gives statistics about how long a “pull” is taking and ultimately the expected duration of the round; and boat time reference

Slalom Scoring Entry

Refresh Print Export Filter Sort Save

Row 5 of 44 Select event group Click refresh icon for

Active Round: 1 2 RO Event Group: All Use 5 Judges

Active Skier: Richards, Marc

Skier	Speed	Start	Active	Rope Length	Start	Active
1	30.4mph/49kph			Long - Neutral/23M		
2	28.6mph/46kph			15 Off - Red/18.25M		
RO	26.7mph/43kph			22 Off - Orange/16.00M		
	24.9mph/40kph			28 Off - Yellow/14.25M		
	23.0mph/37kph			32 Off - Green/13.00M		
	21.1mph/34kph			35 Off - Blue/12.00M		
	19.3mph/31kph			38 Off - Violet/11.25M		
	17.4mph/28kph			39.5 Off - Neutral/10.75M		
	15.5mph/25kph			41 Off - Pink/10.25M		
				43 Off - Black/9.75M		
				44 Off - Red/9.5M		

Note:

Key	Fast	Actual	Slow	Description
34-C-6	26.81	27.42	28.08	34kph,21.1mph Bouy E...
34-C-5	23.99	24.56	25.16	34kph,21.1mph Bouy 6
34-C-4	19.74	20.22	20.73	34kph,21.1mph Bouy 5
34-C-3	15.49	15.88	16.29	34kph,21.1mph Bouy 4

Boat times full course 26.810 27.42 28.080

23.00M,34kph,Long,21.1mph

Score: 22.00 NOPS: 539.8 Boat: Undefined

Rd	Gate	Power	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Time	Score	Pro	Re	Note
	E-1		X-1	E-2	2	X-2	E-B	Judge	X-B	Good				ride?	
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	😊	33.22	6.00			23.00M,28kph,Long,17.4mph
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	😊	30.25	6.00			23.00M,31kph,Long,19.3mph
1	✓	4.00	✓	✓	4.00	✓	✓	4.00	✓	😊	20.46	4.00			23.00M,34kph,Long,21.1mph

Skier unscored Skier scoring incomplete Skier scored Skier scored with error

Scroll Bars

In the Active scoring section of the window, the following changes will occur as a skier moves through subsequent passes:

- 1) If the skier does not start at their maximum boat speed, the boat speed highlighted in green will dictate the current speed the skier is currently skiing,
- 2) As the skier begins to shorten the rope length; the color of the “loop” that the skier is currently on.

Active Skier: **Evatt, Hank**

Skier Round	Speed	Start	Active	Rope Length	Start	Active
1	36.0mph/58kph			Long - Neutral/23M		
2	34.2mph/55kph			15 Off - Red/18.25M		
RO	32.3mph/52kph			22 Off - Orange/16.00M		
	30.4mph/49kph			28 Off - Yellow/14.25M		
	28.6mph/46kph			32 Off - Green/13.00M		
	26.7mph/43kph			35 Off - Blue/12.00M		

5.4.2 Slalom: Skier Roster

After you enter the **Slalom Scorer** screen for the first time, you will need to click on the **Refresh** button to pull in the current roster information.

The color coding for each of the skier’s name will depict specific situations:

- a) Black Font white background: Skier not scored yet for that given round
- b) Blue Font white background: Skier scored for that given round
- c) Green Highlighted: score is incomplete
- d) Red Highlighted: score has an error that must be fixed
- e) Blue Highlighted: skier currently being scored, also see the “**Active Skier**” call out as well at the top of the screen

Slalom Scoring Entry

Row 5 of 44 Select event group Click refresh icon for

Active Skier: **Richards, Marc**

SkierName	Age Group	Event Class	Event Group
Goodhue, Samuel	B2	C	S1
Goodhue, Thomas	B1	C	S1
Waskowicz, Zach...	B1	F	S1
Shaffer, Matthew	B1	F	S1
Richards, Marc	B1	C	S1
Waskowicz, Calei...	G2	C	S1
Goddard, Thomas	B2	C	S1
Bowler, Michael	B2	C	S1
Afonso, Chris	B2	C	S1
Goddard, William	B2	C	S1
Tee, Jennifer	G3	C	S1
Goodhue, Christo...	B2	C	S1
Mills, Chelsea	W2	F	S2
...

Skier unscored Skier scoring incomplete
Skier Scored Skier scored with error

NOTE: the roster will refresh as you move between skiers. However you can also update the roster to show the current statuses buy using the **Refresh** icon at the top of the window.

If you scroll all the way to the right via the scroll bar in the roster, you can also see the following Status “text” for each skier. This will correspond to the color coding:

Order	Rank Score	Rank Rating	Status
1	13.1	S4	2-InProg
2	24.3	S7	1-TBD
3	3.6	S5	3-Error
4	0.0		4-Done
5	0.0		2-InProg

Skier scoring incomplete
Skier scored with error
Richards, Marc
Skier Scored
Skier unscored

The active round will dictate the default screen to display as each subsequent skier is scored. While you are in the active round for a skier, you can also move to the inactive round to view previous scores.

Example of both the skier information in alignment with the round:

The screenshot shows the 'Slalom Scoring Entry' application. At the top, it displays 'Row 5 of 44' and 'Active Skier: Richards, Marc'. The 'Active Round' is set to '1'. The skier's performance is shown as '21.1mph/34kph'. Below this, a table lists various gates and their times, with the current round's performance highlighted in blue. The bottom of the interface shows a status bar with 'Skier scoring incomplete' and 'Skier scored with error' indicators.

Key	Fast	Actual	Slow	Description
34-C-6	26.81	27.42	28.08	34kph,21.1mph Bouy E...
34-C-5	23.99	24.56	25.16	34kph,21.1mph Bouy 6
34-C-4	19.74	20.22	20.73	34kph,21.1mph Bouy 5
34-C-3	15.49	15.88	16.29	34kph,21.1mph Bouy 4

Rd	Gate E-1	Tower 1	Gate X-1	Gate E-2	Tower 2	Gate X-2	Gate E-B	Boat Judge	Gate X-B	Time Good	Time	Score	Prot	Re ride?	Note
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	😊	33.22	6.00			23.00M,28kph,Long,17.4mph
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	😊	30.25	6.00			23.00M,31kph,Long,19.3mph
1	✓	4.00	✓	✓	4.00	✓	✓	4.00	✓	😊	20.46	4.00			23.00M,34kph,Long,21.1mph

Example of moving to a different round for a given skier:

The screenshot shows the WSTIMS software interface. At the top, there are menu options: Refresh, Print, Export, Filter, Sort, Save. Below that, it says "Row 5 of 44" and "Select event group Click refresh icon for". The "Active Round" is set to 1, and the "Active Skier" is Richards, Marc. The "Event Group" is set to All. The "Use 5 Judges" checkbox is checked. The "Event Start" is 13:25, "Event Delay" is 00:00, and "Skiers" is 0, 0. The "Event Duration" is Mins Per Skier: Mins Per Pass:.

The "Active Round" section shows three radio buttons: 1 (selected), 2, and RO. The "Skier Round" section shows three radio buttons: 1, 2 (selected), and RO. The "Speed" and "Rope Length" sections show a list of gates with their respective speeds and rope lengths. The "Note" section is empty.

The "Key" table shows the following data:

Key	Fast	Actual	Slow	Description
34-C-6	26.81	27.42	28.08	34kph,21.1mph Bouy E...
34-C-5	23.99	24.56	25.16	34kph,21.1mph Bouy 6
34-C-4	19.74	20.22	20.73	34kph,21.1mph Bouy 5
34-C-3	15.49	15.88	16.29	34kph,21.1mph Bouy 4

The "Boat times full course" are 26.810, 27.42, 28.080. The "Score" is 23.00, "NOPS" is 559.4, and "Boat" is Undefined.

The "Skier Roster" table shows the following data:

SkierName	Age Group	Event Class	Event Group
Goodhue, Samuel	B2	C	S1
Goodhue, Thomas	B1	C	S1
Waskowicz, Zach...	B1	F	S1
Shaffer, Matthew	B1	F	S1
Richards, Marc	B1	C	S1
Waskowicz, Calei...	G2	C	S1
Goddard, Thomas	B2	C	S1
Bowler, Michael	B2	C	S1
Afonso, Chris	B2	C	S1
Goddard, William	B2	C	S1
Tee, Jennifer	G3	C	S1
Goodhue, Christo...	B2	C	S1
Mills, Chelsea	W2	F	S2
Underwood, Mal...	W7	F	S2

The "Skier scoring incomplete" and "Skier scored with error" messages are visible at the bottom.

Helpful Hint: In the case where multiple rounds are being scored at the same time, you may open a new window to score another round. In other words one Slalom Score window can be opened with Round 1 as the active round, then another round can be opened with Round 2 as the active round.

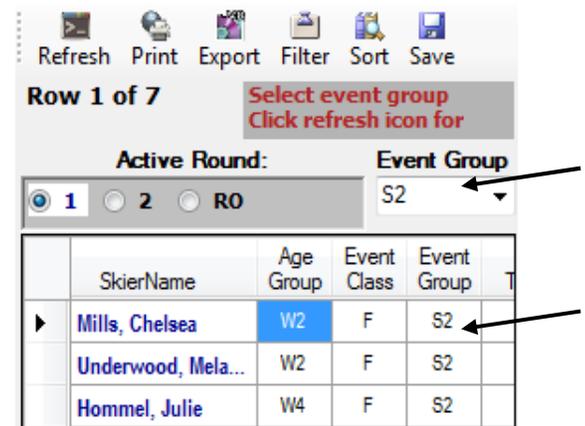
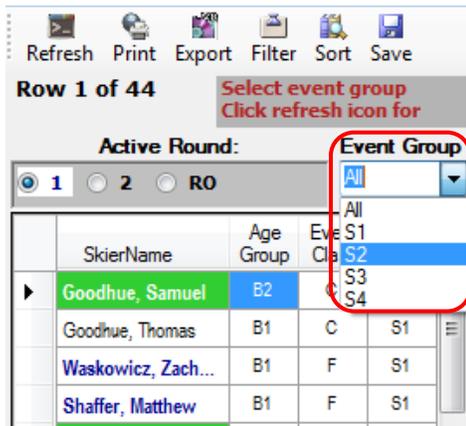
There is a scroll bar at the bottom of the Skier Roster section, use this to move left or right in the roster. The following columns are available to view:

- Skier Name
- Event Group
- Age Group
- Event Class
- Team
- Order
- Rank Score
- Rank Rating
- Status

There is also a feature to retrieve Running Order by Event Group. Simply, select the Event Group you would like in the drop down box then click on the Refresh button.

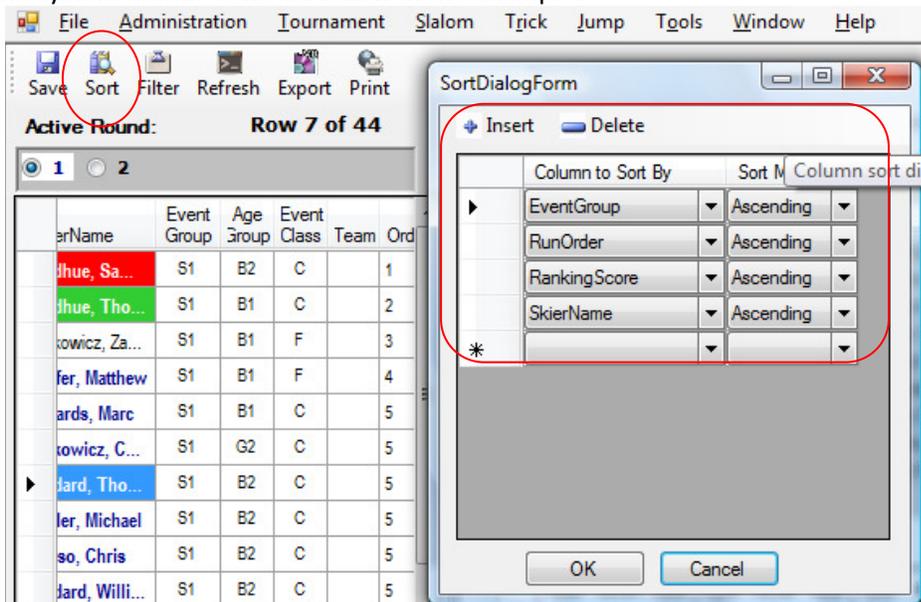
Before:

After:



The default sort for the roster can be adjusted via the “Sort” button at the top of the window. The default can be temporarily overridden while you are in the roster; when you hit the refresh button the default sort will be reinstated.

The system default is noted below in the example:



To change the sort for the roster without changing the default, simply click on the roster column heading you want to sort with. The first click will give you ascending order; the second click will give you descending order. The below example is sorting by skier name:

SkierName	Event Group	Age Group	Event Class	Team
Afonso, Alex	S2	B3	C	
Afonso, Chris	S1	B2	C	
Afonso, Rui	S4	M5	C	
Allen, David	S4	M4	C	
Amberg, Michael	S4	M5	C	
Bellefeuille, S...	S4	M3	C	

To return to the default sort, simply click on the **Refresh** button or the **Sort** button then click OK.

5.4.3 Slalom: Reference Information

There are several areas that can be used as reference on the scoring window:

- Statistics that show the duration of the tournament, round and per skier; this is great tool to keep the tournament on track.
- Notes section, which is a free form text box.
- Boat time card, good reference for the boat times at each buoy; use the scroll bar to move up and down.
- Boat Speed for current pass along with Rope Length.
- For the skier being scored, the current buoy count and NOPS.

The screenshot shows a scoring window with the following elements:

- Event Start:** 14:26, **Event Delay:** 00:00, **Skiers:** 1, 1
- Event Duration:** Mins Per Skier, Mins Per Pass
- Note:** (Empty text box)
- Table:**

Key	Fast	Actual	Slow	Description
58-C-6	15.92	16.08	16.22	58kph,36mph Bouy En...
58-C-5	14.25	14.40	14.53	58kph,36mph Bouy 6
58-C-4	11.73	11.86	11.97	58kph,36mph Bouy 5
58-C-3	9.20	9.31	9.41	58kph,36mph Bouy 4
- Boat times full course:** 15.920 16.08 16.220
- 14.25M,58kph,28 Off,36.0mph**
- Score:** 86.00, **NOPS:** 478.8

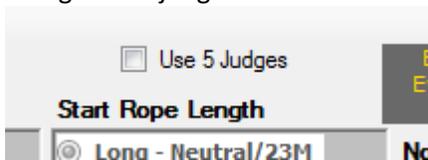
Callouts A through E point to the following areas:

- A:** Refresh button (indicated by a circular arrow icon)
- B:** Note text box
- C:** Boat time card (row 58-C-4)
- D:** Boat times full course
- E:** Score and NOPS fields

A text box on the right explains: "Refreshes each time to re-open the score window. Shows # of skiers scored and number of passes; in this case 1 skier scored and 1 pass."

5.4.4 Slalom: Use 5 Judges

Simply select the "Use 5 Judges" check box (above the Start Rope Length section) and the screen will adjust for scoring with 5 judges.



BEFORE with the default of 2 tower judges and the boat judge:

Rd	Gate	Tower	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Score	Prot	Re	Note
	E-1	1	X-1	E-2	2	X-2	E-B	Judge	X-B	Good	Time	Score	ride?	
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.00	.00	<input type="checkbox"/>	23.00M,25kph,Long,15.5mph

AFTER when 5 judges are selected, where as there will be 4 tower judges plus the boat judge:

Rd	Gate	Tower	Gate	Tower	Tower	Gate	Tower	Gate	Gate	Boat	Gate	Time	Score	Prot	Re	Note
	E-1	1	E-2	2	3	X-2	4	X-1	E-B	Judge	X-B	Good	Time	Score	ride?	Nc
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.00	.00	<input type="checkbox"/>	23.00M,25kph

5.4.5 Slalom: Active Scoring Window (Score a Skier)

Defaults

When you select a skier, the following fields default:

Skier Round: defaulted from the Active Round box

Start Speed: defaulted based on age division

Rope Length: defaulted to the 'common' starting point for the age division

There are several check boxes on the window that are also defaulted:

Gate E: it's assumed that the skiers will "make" their entry gates more often than not

Gate X: it's assumed that the skiers will "make" their exit gates more often than not

NOTE: The gate defaults are based on the majority of the performances. These fields are to be 'unchecked' in the case that a skier misses their entry or exit gates.

Score a Skier (Examples: advancement, missed entrance, missed exit)

Confirm Start Speed and Rope Length with the boat judge before proceeding, once validated then click the 'Add Pass' button. The first row will be added for scoring; in this example the skier is using a rope length of 16 meters:

Skier speed is 25 KPH and rope length is Long Line

Skier being scored is highlighted in Blue

First pass is ready to be scored. Click **Add Pass**.

Key	Fast	Actual	Slow	Description
25-W-6	35.49	37.30	39.36	25kph,15.5mph Bouy E...
25-W-5	31.77	33.41	35.27	25kph,15.5mph Bouy 6
25-W-4	26.13	27.50	29.06	25kph,15.5mph Bouy 5
25-W-3	20.50	21.60	22.84	25kph,15.5mph Bouy 4

Gate	Tower	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Time	Score	Prot	Re	Note
Rd	E-1	1	X-1	E-2	2	X-2	E-B	Judge	Good	Time	Score	Prot	ride?	Note

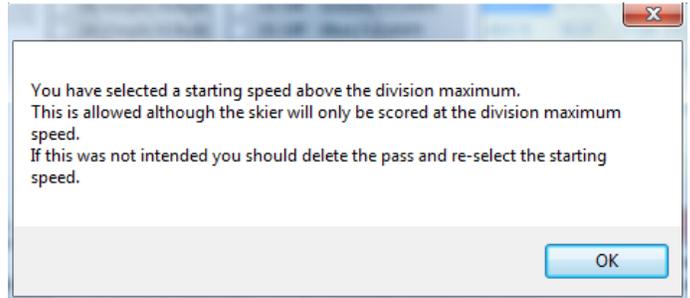
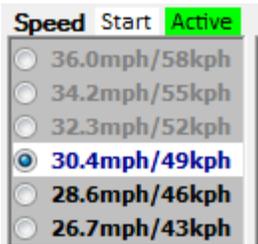
In this example the first pass is scored as 6 buoys, you will enter the scores as they are called in along with the boat time. The data will be accepted and the next progressive row will be created to score the next pass. The "Note" Field will display the next speed/rope length respectfully.

Helpful Hint: when entering Boat Times you can enter the last two digits and the rest of the number will default. Example: for a skier that is at 25KPH the actual is 37.30; you can enter 30 in the **Time** field and it will populate with 37.30.

Note: There is a feature that will allow the user to select a speed that is GREATER than the division maximum. When entering the starting speed simply select the faster speed; you will receive a pop-up message stating that the speed is faster than the division maximum. Click OK to continue. See example below:

Speeds faster than division maximum are in gray, maximum is in blue font, and slower speeds are in black:

Pop Up that displays once a faster speed is selected and you click **Add Pass** button:



ADVANCEMENT to next pass example, skier started at 49 KPH/16 meter and made the first pass; advancing them to 49 KPH/14.25 meters:

First pass advances the skier. Next pass is noted and can be used to reiterate back to boat judge.

Scores are captured.

Key	Fast	Actual	Slow	Description
28-W-6	31.91	32.30	34.86	28kph,17.4mph Bouy E...
28-W-5	28.56	29.83	31.25	28kph,17.4mph Bouy 6
28-W-4	23.49	24.56	25.74	28kph,17.4mph Bouy 5
28-W-3	18.43	19.29	20.23	28kph,17.4mph Bouy 4

Rd	Gate	Tower	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Good	Time	Score	Prot	Re ride?	Note
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	37.30	<input checked="" type="checkbox"/>	6.00		<input type="checkbox"/>	<input type="checkbox"/>	23.00M,25kph,Long,15.5mph
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	37.30	<input checked="" type="checkbox"/>	6.00		<input type="checkbox"/>	<input type="checkbox"/>	23.00M,28kph,Long,17.4mph

MISSED Entry Gates, skier started at 49 KPH/16 meter and made the first pass; advancing them to 49 KPH/14.25 meters but missed Entry Gates. In this case 2 of the 3 judges call in Zero, note that you do NOT need to uncheck the Entry Gate box and the Exit Gate box will automatically uncheck any time a score less than 6 is recorded:

The **Gate X** box will automatically 'uncheck' when a Judge calls in score of less than 6 buoys.

Key	Actual	Fast	Slow	Description
49-W-2	8.01	7.83	8.18	49kph,30.4mph Bouy 3
49-W-1	5.00	4.87	5.11	49kph,30.4mph Bouy 2
49-W-0	1.98	1.92	2.05	49kph,30.4mph Bouy 1

Rd	Gate	Tower	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Good	Time	Score	Prot	Re ride?	Note
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	19.03	<input checked="" type="checkbox"/>	6.00		<input type="checkbox"/>	<input type="checkbox"/>	16.00M,49kph,22 Off,30.4m...
1	<input checked="" type="checkbox"/>	0.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0.00	<input checked="" type="checkbox"/>	1.98	<input checked="" type="checkbox"/>	0.00		<input type="checkbox"/>	<input type="checkbox"/>	14.25M,49kph,28 Off,30.4m...

MISSED Exit Gates (no-continue), skier started at 49 KPH/16 meter and made the first pass; advancing them to 49 KPH/14.25 meters but missed the Exit Gates. In this case 2 of the 3 judges call in 6 no-continue, note that in this case you DO need to un-check the Exit Gate box. Again the Exit Gate box will automatically uncheck ONLY when there is a score of less than 6 buoys for a given judge:

The screenshot shows the WSTIMS interface with a skier list on the left and a data table on the right. Two callout boxes provide instructions:

- Callout 1:** The **Gate X** box will automatically 'uncheck' when a Judge calls in score of less than 6 buoys.
- Callout 2:** In the case of a score where the judge calls in "6-no continue", you must uncheck the **Gate X** box.

Rd	Gate E-1	Tower 1	Gate X-1	Gate E-2	Tower 2	Gate X-2	Gate E-B	Boat Judge	Gate X-B	Time Good	Time	Score	Prot	Re ride?	Note
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	☺	19.03	6.00	<input type="checkbox"/>	<input type="checkbox"/>	16.00M,49kph,22 Off,30.4m...
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input type="checkbox"/>	☹	18.69	6.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.25M,49kph,28 Off,30.4m...

Protected Score Box

If a pass compiles with AWSA rules and needs to be protected, for example in the case of a fast boat time the **Prot** box will automatically check off and the **Reride Reason** box will auto-populate (note this field can be added to if need be). Example:

The screenshot shows a skier's pass with a 'Boat time fast' note and a 'Prot' box checked. A callout box provides a helpful hint:

Helpful Hint: Since you can't see all the text in the **Reride Reason** field, you can "hover" your cursor and the text will display on your screen without moving the scroll bar.

Rd	Gate E-1	Tower 1	Gate X-1	Gate E-2	Tower 2	Gate X-2	Gate E-B	Boat Judge	Gate X-B	Time Good	Time	Score	Prot	Re ride?	Note	Reride Reason
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	☺	19.03	6.00	<input type="checkbox"/>	<input type="checkbox"/>	16.00M,49kph,22 Off,30.4m...	
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	☹	14.03	6.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.25M,49kph,28 Off,30.4m...	Boat time fast 18.690 19.03 19.370

Re-Ride Check Box

When there is a re-ride the **Re Ride** box must be checked, and a reason needs to be entered. The **Re Ride Reason** pop-up box will appear once the **Re Ride** box is checked off. Note that in the case of a 'bad' boat time the reason will pre-populate and can be appended to or changed all together. Example:

Text in blue defaulted based on the bad boat time.

Re Ride Reason: Boat time fast 16.730 17.04 17.360, you can add more information if necessary

Buttons: Update, Update With Protected Score, Cancel

Rd	E-1	1	X-1	E-2	2	X-2	E-B	Judge	X-B	Good	Time	Score	Prot	Re ride?	Note
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	19.03	6.00	<input type="checkbox"/>	<input type="checkbox"/>	16.00M,49kph,22 Off,30.4m.
1	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14.03	5.50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14.25M,49kph,28 Off,30.4m.

If you want to change **Re Ride Reason** field after you click on of the **Update** buttons, then double click on the field to activate the field for typing.

Since there was a re-ride, then a new row will be presented so the re-ride pass can be scored:

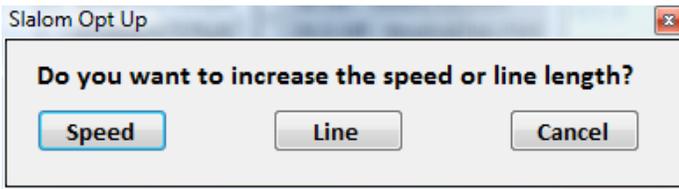
Note: Boat times full course 18.690 19.03 19.370

Rd	Gate	Tower	Gate	Gate	Tower	Gate	Gate	Boat	Gate	Time	Score	Prot	Re ride?	Note
1	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	19.03	6.00	<input type="checkbox"/>	16.00M,49kph,22 Off,30.4m.
1	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5.50	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	14.03	5.50	<input checked="" type="checkbox"/>	14.25M,49kph,28 Off,30.4m.
1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	14.25M,49kph,28 Off,30.4m.

Opt-Up Button

In the case where the skier either decides to advance beyond their next sequential pass (aka Opting Up), the Opt Up button needs to be used.

The following example shows where a skier has successfully advanced through two passes and has decided to "opt up", you will need to click on the **Opt Up** button to initiate the skier's request the following will display:



This allows you to increase speed and reduce the line length as well. If both the speed and line length are being changed; select one then click on Opt Up button again to change the other. Once appropriate buttons have been selected the information will be captured in the **NOTE** section of the **Active Scorer** window.

Active Skier: **Goddard, Thomas**

Skiers, 3, 16 Mins Per Pass: 0

Skier Round: 1 (selected), 2, RO

Speed Start Active: 34.2mph/55kph, 32.3mph/52kph, 30.4mph/49kph, **28.6mph/46kph**, 26.7mph/43kph, 24.9mph/40kph, 23.0mph/37kph, 21.1mph/34kph, 19.3mph/31kph, 17.4mph/28kph, 15.5mph/25kph

Rope Length Start Active: Long - Neutral/23M, **15 Off - Red/18.25M**, 22 Off - Orange/16.00M, 28 Off - Yellow/14.25M, 32 Off - Green/13.00M, 35 Off - Blue/12.00M, 38 Off - Violet/11.25M, 39.5 Off - Neutral/10.75M, 41 Off - Pink/10.25M, 43 Off - Black/9.75M, 44 Off - Red/9.5M

Note:

Key	Fast	Actual	Slow	Description
46-C-6	19.98	20.27	20.56	46kph,28.6mph Bouy E...
46-C-5	17.88	18.16	18.42	46kph,28.6mph Bouy 6
46-C-4	14.71	14.95	15.18	46kph,28.6mph Bouy 5
46-C-3	11.54	11.74	11.93	46kph,28.6mph Bouy 4

Boat times full course 19.980 20.27 20.560

23.00M,46kph,Long,28.6mph

Score: 48.00 NOPS: 374.8 Boat: Undefined

Buttons: Add Pass, Delete Pass, **Opt Up**, Skier Done

Rd	Gate E-1	Tower 1	Gate X-1	Gate E-2	Tower 2	Gate X-2	Gate E-B	Boat Judge	Gate X-B	Time Good	Time	Score	Prot	Re ride?	Note
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	☺	23.30	6.00			23.00M,40kph,Long,24.9r
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	☺	21.67	6.00	✓	✓	Opt up to 23.00M,46kph,1
1	✓		✓	✓		✓	✓		✓	☹					Opting up to 16.00 at 46k

Opting up to 16.00 at 46kph

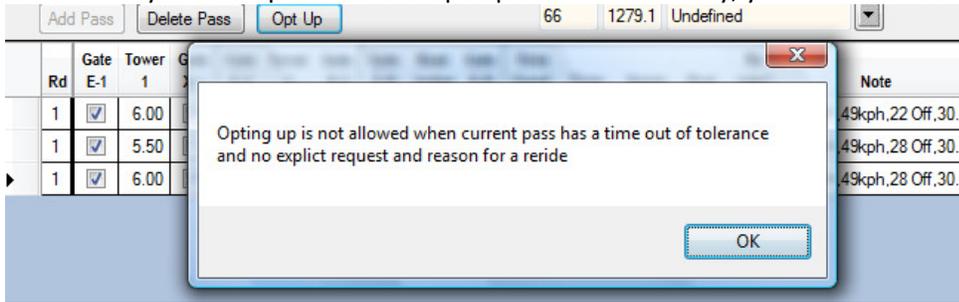
Example: Opt Up of speed and rope length. You will see the note updated on pass 2 to indicate the speed change and on pass 3 the rope length change.

Click the OK button to continue scoring for this skier. The accumulative score will take into consideration the 'skipped' pass if the skier advances. Example:

Rd	Gate E-1	Tower 1	Gate X-1	Gate E-2	Tower 2	Gate X-2	Gate E-B	Boat Judge	Gate X-B	Time Good	Time	Score	Prot	Re ride?	Note
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	☺	23.30	6.00			23.00M,40kph,Long,24.9r
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	☺	21.67	6.00	✓	✓	Opt up to 23.00M,46kph,1
1	✓	6.00	✓	✓	6.00	✓	✓	6.00	✓	☺	20.27	6.00			Opting up to 16.00 at 46k
1	✓		✓	✓		✓	✓		✓	☹					23.00M,49kph,Long,30.4r

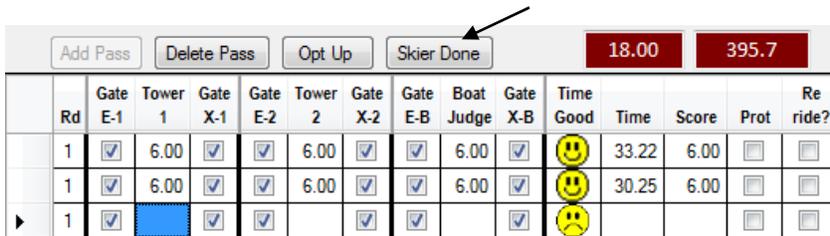
Helpful Hint: you can enter accommodate a skier that would like to Opt Up to next speed or rope length in the case of the current pass is below the division maximum speed. Click on the **Re Ride** button, enter the reason in the pop-up box, then click on the **Opt Up** button and enter the appropriate information.

NOTE: that if you attempt to use the Opt Up button incorrectly, you will receive a message accordingly.

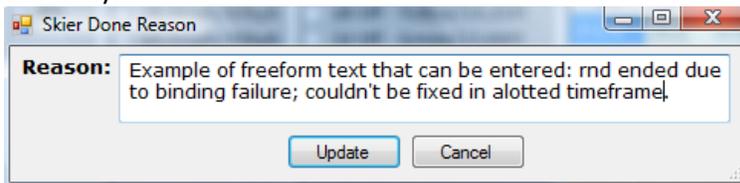


Skier Done Button

In the situation where a skier is unable to finish the round (i.e. equipment failure, injury), the **Skier Done** button can be used to end the round and preserve the score up to that point.

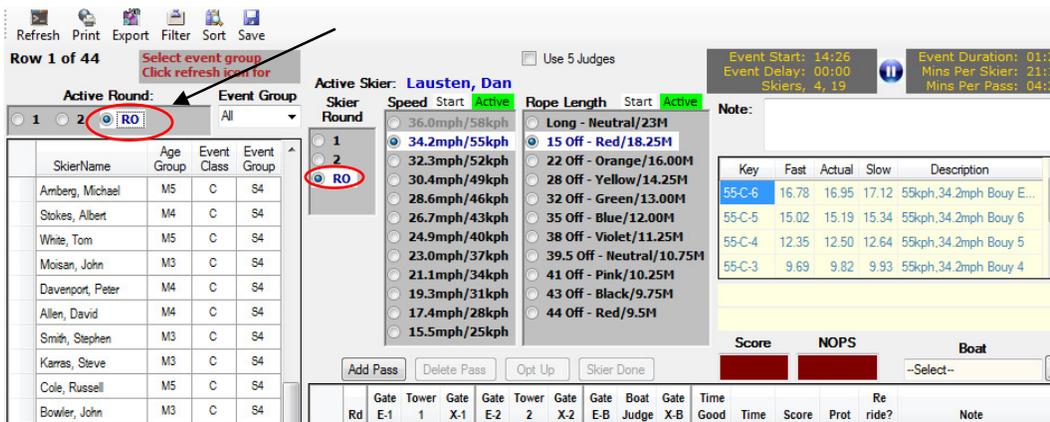


Once the **Skier Done** button is clicked upon, you will receive a pop up box to capture a reason to end the round prematurely:



Run Off Button

There is a feature that allows for one level of a run off. The functionality is such that you select the **RO** for the **Round** and score the skiers accordingly.



Delete Button

In the situation where a pass needs to be started over or needs to be deleted, use the Delete button. **NOTE:** that this functionality will ONLY delete the current score being recorded.

5.4.6 Slalom: Running Order

This feature is the same as the [Tournament → Running Order](#) feature. The window defaults to the slalom event when opened.

5.4.7 Slalom: Summary

This report shows the results of all skiers across all rounds based on an overall score. There are a variety of filtering, calculating, and sorting options for this report.

The main difference between this view and the [Tournament → Overall Summary](#) is that this view is strictly for the slalom rounds.

The screenshot shows the Slalom Summary window with the following settings:

- Refresh, Print, Export, Filter, Sort, Html
- Row 1 of 46
- Select an event group and click Refresh icon
- Scores to Use: Best, Total, Final
- Points Calculation Method: NOPS, Handicap, Placement, 1000 Base, Base Ratio
- Placement Method: Raw Score, Points
- Placement: Group, No Groups, Div, Div/Group

SkierName	Event Group	Age Group	Round	Mph	Rope	Kph	Rope	Buoys	Score	Points	Group Plcmt	Event Class	Team Code
Goodhue, Christophe	S1	B2	2	0	0	0	0	0	75.50	732.3	1	C	
Afonso, Chris	S1	B2	1	0	0	0	0	0	64.00	508.6	2	C	
Tee, Jennifer	S1	G3	2	0	0	0	0	0	58.00	245.2	3	C	
Goddard, William	S1	B2	2	0	0	0	0	0	57.50	403.1	4	C	
Bowler, Michael	S1	B2	1	0	0	0	0	0	51.50	318.7	5	C	
Goddard, Thomas	S1	B2	2	0	0	0	0	0	50.00	299.6	6	C	
Shaffer, Matthew	S1	B1	1	0	0	0	0	0	45.00	949.2	7	F	
Goodhue, Thomas	S1	B1	2	0	0	0	0	0	35.00	779.9	8	C	

There are several sections on this window (noted by the red boxes above) that can be used to change the information that is presented. These options can be selected on the fly and do not need to be set prior to the tournament starting. Simply use these options to determine how the overall scores will be calculated.

- e) **Scores to use:** This allows you to select how you want to calculate a skier's overall score across the events and determine a skier's tournament placement across the events (i.e. overall score).
 - Best** –The skier's best tournament score.
 - Total** –The skier's total score for all rounds.
 - Final** – The skier's score for the tournament's final round.
- f) **Points Calculation Method:** A skier's overall score is calculated as the sum of the points for each event. This option specifies how the points are calculated for each event.
 - NOPS** – The AWSA National Overall Performance Standard (NOPS). A skier's points per event are based on the skier's raw score multiplied by an age division factor per event.

Handicap– A skier’s points are equal to the skier’s raw score plus the skier’s handicap score. Skiers default handicap value is 95% of the difference between a skier’s National Ranking Score and the M1 / W1 open rating score. This value can be manually modified for a tournament using the [Slalom → Running Order](#) window.

Placement – Points are award based on a skier’s event placement context of the placement method specified. Points are based on 10 points for each skier participating in the event.

1000 Base – Points are awarded based on the ratio of a skier’s score to the best score in the event in context of the placement method.

Base Ratio - The skier’s points for an event is based on the ratio of their raw event score divided by their handicap base (generally this is equal to the National Ranking Score unless manually modified in the running order window) multiplied by 100.

g) **Placement Method:** When determining a skier’s placement use the following value:

Points – Use the points calculated by the “Points Calculation Method” for each skier and each event in calculating an overall score.

Raw Score – Each skier’s raw event score is used to determine placement.

h) **Placement:** Determines the context of event and overall placements. This means whether placements are in context of event groups or the tournament as a whole.

By Group – Placements are determined in context to event groups.

No Groups – Placements are determined in context to the tournament as a whole.

Div – Placements are determined in context to divisions.

Div/Groups – Placements are determined in context to divisions and event groups.

5.4.8 Slalom Summary: additional functions

Refresh – Retrieves the registration list and related attributes from the database.

Print – Prints the list as shown on the window.

Export – Used to export data to tab delimited texted file which can be used to view in a text editor or used to import into another users scoring database. For this window all visible official work entries are exported.

Filter – Allows criteria to be specified to show only items in the list that match the specified criteria. All entries that do not match the criteria that selected become hidden from view. Note that this filter will also be applied when the [Export](#) action is used and at that time only the visible members will be exported.

Sort: Allows sort criteria to be specified that are applied to the list. [See examples](#) for using this feature.

HTML – Used to export data to an HTML format for web display. For this window all visible entries are exported.

5.4.9 Slalom: Team Summary

This report shows the team results. There are a variety of filtering, calculating, and sorting options for this report.

There also are buttons that can be used to view skiers within a selected team or to return to view all skiers. Team scores are based on the top “X” number of scores with the “X” number being set by the user.

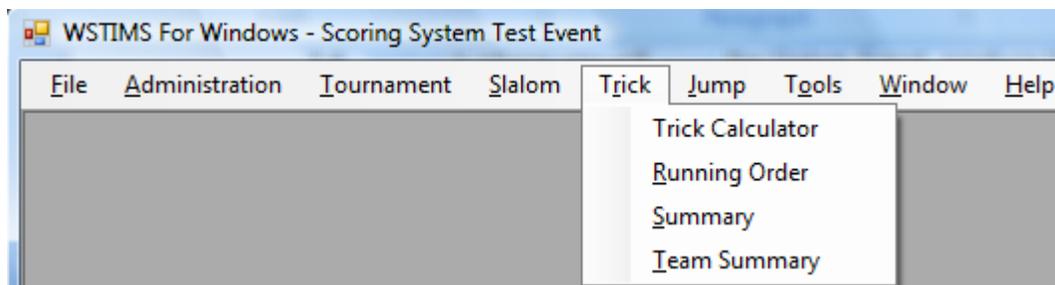
The available options are separated into the following 4 sections with available options:



The sections on this window (noted by the red boxes above) that can be used to change the information that is presented. These options are the same as seen in the [Slalom](#) → [Summary](#) section; the only exception is that you cannot calculate overall scores by round.

5.5 Tool Bar: Trick

Trick is where you will *score* the event through the *Trick Calculator*, produce the *running orders* and show/print result *summary*.



5.5.1 Trick: Trick Calculator Navigation

This feature is used to enter trick passes. This window supports all required functionality and rules for AWSA tournaments.

Below is a screen that shows a tournament in progress. There are three basic sections of the screen:

- 1) Skier roster (indicated by **blue** box below) – shows all the skiers in the event.
- 2) Active scoring window for blue highlighted skier (indicated by **green** box below) – shows the specifics for the current skier.
- 3) Reference Information (indicated by **red** box below) – gives statistics about how long a “pull” is taking and ultimately the expected duration of the round; and boat time reference

Row 21 of 21 Select event group Click refresh icon for

Active Round: 1, 2, RO

Active Skier: Shaffer, Matthew

Event Start: Skiers, Event Delay: Skiers, Event Duration: Mins Per Skier, Mins Per Pass

Skier Round: 1, 2, RO

Pass 1: 0, Pass 2: 0, Total: 0, NOPS: .00

Seq	Skis	Trick	Credit	Points
1	1	S	Credit	40
2	1	B	Credit	60
3	1	F	Credit	60
4	1	B	Repeat	0
5	1	WF	Credit	80
6	1	WB	No Credit	0
7	1	WF	No Credit	0
8	1	B	Fall	0

Use INSERT key to add row before
Use DELETE key to remove row

Skier unscored Skier scoring incomplete Skier Scored Skier scored with error

The active round will dictate the default screen to display as each subsequent skier is scored. Regardless of the overall active round you can move between rounds for a given skier. As seen by the red circles above. You will not be able to score a round that doesn't correspond to the active round.

Helpful Hint: In the case where multiple rounds are being scored at the same time, you may open a new window to score another round. In other words one Score window can be opened with Round 1 as the active round, and then another round can be opened with Round 2 as the active round.

5.5.2 Trick: Skier Roster

After you enter the **Trick Calculator** screen for the first time, you will need to click on the **Refresh** button to pull in the current roster information.

The color coding for each of the skier's name will depict specific situations:

- Black Font white background: Skier not scored yet for that given round
- Blue Font white background: Skier scored for that given round
- Green Highlighted: score is incomplete
- Red Highlighted: score has an error that must be fixed
- Blue Highlighted: skier currently being scored, also see the **"Active Skier"** call out as well at the top of the screen

Row 1 of 21 Refresh Print Export Filter Sort Save

Select event group Click refresh icon for

Active Round: 1 Event Group: All

Active Skier: **Goodhue, Christophe**

Event Start: Skiers, Event Delay: Skiers, Event Duration: Mins Per Skier: Mins Per Pass:

Skier Name	Age Div	Event Class	Event Group	Order	T
Goodhue, Christophe	B2	C	T2	1	
Goodhue, Samuel	B2	C	T1	1	
Goddard, Thomas	B2	C	T1	1	
Afonso, Alex	B3	C	T2	1	
Evatt, Hank	B3	C	T2	1	
Goodhue, Thomas	B1	C	T1	1	
Afonso, Chris	B2	C	T1	1	
Dymek, Melissa	W1	C	T1	1	
Allen, Jennifer	W1	C	T2	1	
Stokes, Albert	M4	C	T2	1	
Allen, David	M4	C	T2	1	
Lakin, Bruce	M7	C	T1	1	
Amberg, Michael	M5	C	T2	1	
Cole, Russell	M5	C	T1	1	
Underwood, Melanie	W2	C	T1	1	

Skier Round	Pass 1	Pass 2	Total	NOPS
1	820	500	1320	636.80

Seq	Skis	Trick	Credit	Points
1	1	TB	Credit	100
2	1	TF	Credit	100
3	1	WO	Credit	150
4	1	WB	Repeat	0
5	1	WBB	Credit	150
6	1	F	Repeat	0
7	1	WO	Fall	0
8	1	BB	Credit	90
9	1	RBB	Credit	90
10	1	F	Repeat	0
11	1	WB	Credit	80
12	1	WF	Credit	80
13	1	RWB	Credit	80
14	1			80

Skier unscored Skier scoring incomplete Skier Scored Skier scored with error

Pass 1 Pass 2

NOTE: the roster will refresh as you move between skiers. However you can also update the roster to show the current statuses buy using the Refresh icon at the top of the window.

If you scroll all the way to the right via the scroll bar, you can also see the following Status “text” for each skier. This will correspond to the color coding:

Rank	HCap	HCap	Trick	Status
Rating	Base	Score	Boat	
	.0	.0		1-TBD
	.0	.0		1-TBD
	.0	.0		1-TBD
T6	180.0	5,52...		1-TBD
T8	243.3	5,46...		4-Done
T4	261.0	5,45...		4-Done
T7	655.5	5,07...		1-TBD

NOTE: Pass one is always on the left and pass two is always on the right. See yellow highlighted boxes on screen shot above.

There is a scroll bar at the bottom of the Skier Roster section, use this to move left or right in the roster. The following columns are available to view:

- Skier Name
- Age Div
- Event Class

- Event Group
- Order
- Team
- Ranking Score
- Rank Rating
- HCap Base
- HCap Score
- Trick Boat
- Status

There is also a feature to retrieve Running Order by Event Group. Simply, select the Event Group you would like in the drop down box then click on the Refresh button.

Before:

Skier Name	Age Div	Event Class	Event Group	Order
Shaffer, Matthew	B1	C	T1	1
Tee, Jennifer	G3	C	T1	1

After:

Skier Name	Age Div	Event Class	Event Group	Order	Team
Amberg, Michael	M5	C	T2	1	
Afonso, Alex	B3	C	T2	1	
White, Tom	M5	C	T2	1	

The default sort for the roster can be adjusted via the “Sort” button at the top of the window. The default can be temporarily overridden while you are in the roster; when you hit the refresh button the default sort will be reinstated.

The system default is noted below in the example:

Column to Sort By	Sort Mode
EventGroup	Ascending
RunOrder	Ascending
RankingScore	Ascending
SkierName	Ascending
*	

To change the sort for the roster without changing the default, simply click on the roster column heading you want to sort with. The first click will give you ascending order; the second click will give you descending order. The below example is sorting by skier name:

Skier Name	Age Div	Event Group	Order
Afonso, Alex	B3	T2	1
Afonso, Chris	B2	T1	1
Allen, David	M4	T2	1
Allen, Jennifer	W1	T2	1
Amberg, Michael	M5	T2	1
Bellefeuille, Scott	M3	T1	1

To return to the default sort, simply click on the Sort button then the Ok Button.

After scores have been entered for a skier, and you are reviewing the two passes the in-active window will show in Yellow background. This is so that you know which pass you are in and can change if need be. Example:

The screenshot shows a skier's performance across two passes. The 'Pass 1' window is highlighted in yellow and labeled 'Inactive (protected) pass; yellow back ground.' The 'Pass 2' window is also highlighted in yellow and labeled 'Active pass; allows changes.' Both windows show a table of tricks with columns for Skis, Trick, Credit, and Points.

Skis	Trick	Credit	Points
2	S	Credit	20
2	RS	Credit	20
2	B	Fall	0

Skis	Trick	Credit	Points
1	S	Credit	40
1	RS	Credit	40
1	B	Credit	60
1	F	Credit	60
1	O	Fall	0

The **Note** section is optional and can be used to track specifics about that skier's round.

The **Boat** selection is optional. This is helpful to see how many skiers are using which model boat.

The screenshot shows a skier's performance summary. The 'Pass 1' window is highlighted in yellow and labeled 'Optional Fields'. The 'Pass 2' window is also highlighted in yellow. Both windows show a table of tricks with columns for Skis, Trick, Credit, and Points.

Skier Round	Pass 1	Pass 2	Total	NOPS
1	820	500	1320	636.80

Boat: Undefined Note:

Use INSERT key to add row before
Use DELETE key to remove row

As you enter tricks into the active score window, you may use the **"INSERT"** key on your keyboard to insert a trick above the active row your cursor is on. You may also use the **"DELETE"** key on your keyboard to delete the trick that is active. This is noted as a helpful hit on the screen.

NOTE: that when rows are **Inserted** or **Deleted** the score for the give pass needs to be re-calculated. So after you have added or removed tricks then click on the Calc Score button to update the scores.

5.5.3 Trick: Trick Calculator (Score a Skier)

Credit Selections

Credit values available to apply to a trick:

Credit – valid trick

Fall – fall on trick

No Credit – trick executed unsuccessfully where as there will not be value associated to the trick

Before – trick executed before course start buoy

OOC – trick occurred outside course (start buoy or after horn)

Repeat – trick is a repeat and there will not be a value associated to the trick

End – pass is over (i.e. Horn)

Unresolved – trick needs to be validated for accurate credit, there are times when the determination on credit or no credit for a trick is under review (generally back to the judges for video review). In these situations the final score for the skier needs to be deferred; in order to do that use “Unresolved” as the **Credit** type and move on to another skier. Marking the trick with this value will cause the skier to be highlighted in red in the list so alert the scorer that the scoring is not complete.

Example of using the **Credit** drop down box to change the ‘credit’ of a trick:

Before:

Seq	Skis	Trick	Credit	Points
1	1	TS	Credit	130

Dropdown menu options: Credit, Fall, No Credit, Before, OOC, Repeat, End, Unresolved

After selecting No Credit:

Seq	Skis	Trick	Credit	Points
1	1	TS	No Credit	0
2	1		Credit	0

Examples of the given Credit selections & resulting scores:

Skis	Trick	Credit	Points
2	S	Credit	20
2	RS	Credit	20
2	B	Fall	0

Skis	Trick	Credit	Points
1	S	OOC	0
1	RS	No Credit	0
1	B	Credit	60
1	F	Credit	60
1	O	Credit	90
1	B	Repeat	0
1		End	0

NOTE: The application will automatically note repeat tricks in a given pass as tricks are entered.

Helpful Hint: Tricks after the horn generally should not be entered and END should be entered for the last trick. You can enter one trick at the horn; with the credit code OOC just to let the skier know that the trick was considered out of course (the system understands how to handle OOC at the beginning and the end of a trick pass appropriately).

General Scoring

The application is built such that the trick pass that matches between the judges will be entered. So basically the final reconciled pass is recorded in the system.

Example of default window for a skier about to be scored:

The screenshot shows the 'Active Skier' window for Matthew Shaffer. At the top, it displays 'Row 1 of 21', 'Active Round' (1), and 'Event Group' (All). The skier's name 'Shaffer, Matthew' is highlighted. To the right, event details are shown: Event Start (11:35), Event Delay (00:00), Skiers (2, 5), Event Duration (00:00), Mins Per Skier (00:20), and Mins Per Pass (00:08). Below this, a summary table shows Pass 1 (0), Pass 2 (0), Total (0), and NOPS (0.0). A 'Skier Round' dropdown is set to 1. A table lists other skiers: Tee, Jennifer; Underwood, Melanie; Dymek, Melissa; Goodhue, Thomas; and Goodhue, Samuel. At the bottom, a table for the current pass shows one trick with 1 ski and a credit status of 'Credit', resulting in 0 points.

Round will default based on the active round, but can be overridden if necessary. There are no other default values when you begin scoring.

The next step is to enter number of skis for the pass. The number of skis will automatically propagate as each trick is entered. Example below where one ski is entered.

This close-up shows the 'Skis' column of the trick entry table. The value '1' is entered in the first row, and the 'Points' column shows '0'. The 'Credit' dropdown is set to 'Credit'.

Enter the trick code and hit **ENTER** to go to the next trick. The system will assume the trick receives credit but the credit status for any trick can be changed by using the **Credit** dropdown for the trick and using the dropdown list (see Credit Drop down section for more information). Example of entering a "back" by using the letter "B" and hitting enter:

This close-up shows the 'Trick' column of the trick entry table. The value 'B' is entered in the first row, and the 'Points' column shows '60'. The 'Credit' dropdown is set to 'Credit'.

The score for the pass will be tallied at the top of the as tricks are entered into the pass.

The screenshot shows the 'Active Skier' window with the updated scores. The summary table now shows Pass 1 (60), Pass 2 (0), Total (60), and NOPS (285.40). The 'Skier Round' dropdown is still set to 1. The table below shows two tricks: the first with 1 ski, trick code 'B', and 60 points; the second with 1 ski and 0 points. The 'Credit' dropdown for the second trick is set to 'Credit'.

Complete the entering for the first pass; once complete you will automatically move over the second pass window. Follow the same process as for pass one. The total score ticker will update once you are completed with the second pass or if you move off the section of the window.

NOTE: That you can use the word “end” to end a pass and move to the next pass. For example:

Seq	Skis	Trick	Credit	Points
1	1	B	Credit ▼	60
2	1	WOB	Credit ▼	150
3	1	F	Credit ▼	60
4	1	End	Credit ▼	0

Resulting Window after you hit enter (pass one is shown as complete and the cursor is ready for first trick in pass 2).

Seq	Skis	Trick	Credit	Points
1	1	B	Credit ▼	60
2	1	WOB	Credit ▼	150
3	1	F	Credit ▼	60

Seq	Skis	Trick	Credit	Points
1	1		Credit ▼	0

Once you are finished entering the tricks for the two passes the tally will be updated and can be seen at the top of the screen. After all tricks have been entered, **Calc Score** to update the final scores. Example of two complete passes:

Active Skier
Shaffer, Matthew

Event Start: 11:35
Event Delay: 00:00
Skiers: 4, 21

Event Duration: 00:21
Mins Per Skier
Mins Per Pass

Pass 1	Pass 2	Total	NOPS
270	360	630	719.20

Boat: [Dropdown]
Note: [Text Area]

Calc Score Skier Done View Trick List

Use INSERT key to add row before
Use DELETE key to remove row

Seq	Skis	Trick	Credit	Points
1	1	B	Credit ▼	60
2	1	WOB	Credit ▼	150
3	1	F	Credit ▼	60

Pass 1

Seq	Skis	Trick	Credit	Points
1	1	S	Credit ▼	40
2	1	RS	Credit ▼	40
3	1	B	Repeat ▼	0
4	1	F	Repeat ▼	0
5	1	RB	Credit ▼	60
6	1	RF	Credit ▼	60
7	1	WB	Credit ▼	80
8	1	WF	Credit ▼	80
9	1	O	Fall ▼	0

Pass 2

Click Calc Score button to finalize total score. Totals are seen for each pass shown here.

NOTE: That for collegiate tournaments there is only one pass. The program will allow for this situation.

Skier Done Button

In the situation where a skier is unable to finish the round (i.e. equipment failure, injury), the **Skier Done** button can be used to end the round and preserve the score up to that point.

Trick List Button

In the case that you need a list of tricks to match up to the entries from the judges, there is a View Trick List button. This is updated based on the current AWSA rules.

Active Skier: Goodhue, Christophe

Event Start: [] Event Delay: [] Skiers, []

Event Duration: [] Mins Per Skier: [] Mins Per Pass: []

Skier Round	Pass 1	Pass 2	Total	NOPS
1	820	500	1320	636.80

Boat: Undefined

Note: []

Use INSERT key to add row before Use DELETE key to remove row

View Trick List

Example:

Rule Type	Trick Code	Skis	Start Pos	Num Turns	Rule	Type	Points
awsa	RS	0	0	0	1	0	20
awsa	RS	1	0	0	1	0	40
awsa	RS	2	0	0	1	0	20
awsa	S	0	0	0	1	0	20
awsa	S	1	0	0	1	0	40
awsa	S	2	0	0	1	0	20
awsa	RTS	1	0	0	2	0	130
awsa	TS	1	0	0	2	0	130

NOTE: The **Trick List** that is included with the application is sourced from the current AWSA information. At the point in time that the application is updated and there are changes to the trick list; the list will refresh when you upgrade to the new version. See the [installation section](#) of this manual for information on how updates are triggered.

Helpful Hint: Wake-o-back (wake back to back) and o-back (back to back) are in the trick list as well.

There are several features available to be used; these are noted as Icons at the top of the window:

Export: Creates a file that contains all the tricks and applicable points.

Filter: Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden.

Sort: Allows sort criteria to be specified that are applied to the list.

Save: Writes any changes to the database. Generally this is not necessary because automatic saves are performed at frequent logical intervals such as when moving from one tournament to another in the list.

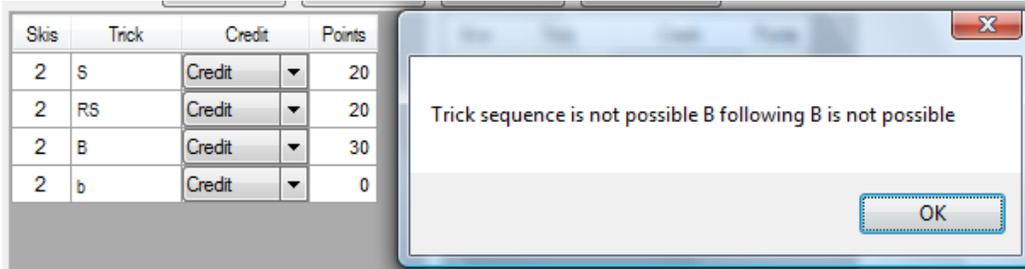
Prints: Prints out the trick list and associated points.

Delete: Deletes a record from the list. **ONLY** to be used in the case of urgency. See note below.

Add: Allows a new trick to be added to the list. **ONLY** to be used in the case of urgency. See note below.

Trick Sequence Not Possible

Since the application has been built based on AWSA rules; if you enter a trick that physically cannot occur after the trick listed prior a pop up edit box will display:



Click OK to the message box; and resolve the trick sequence accordingly.

5.5.4 Trick: Running Order

This feature is the same as the [Tournament → Running Order](#) feature. The window defaults to the slalom event when opened.

5.5.5 Trick: Summary

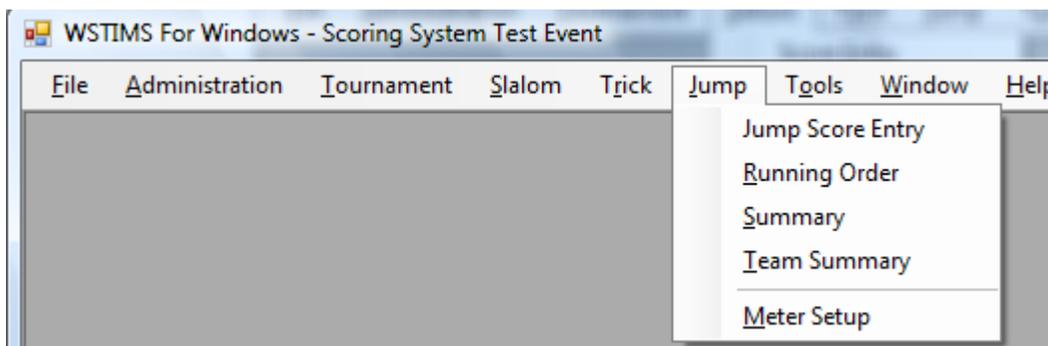
This feature is the same as the [Slalom → Summary](#) feature. The window defaults to the slalom event when opened.

5.5.6 Trick: Team Summary

This feature is the same as the [Slalom → Team Summary](#) feature. The window defaults to the slalom event when opened.

5.6 Tool Bar: Jump

[Jump](#) is where you will *setup the meter*, *score* the event, produce the *running orders* and show/print result *summary*.



5.6.1 Jump: Jump Score Entry Navigation

This feature is used to enter Jump passes. This window supports all required functionality and rules for AWSA tournaments.

Below is a screen that shows a tournament in progress. There are three basic sections of the screen:

- 1) Skier roster (indicated by blue box below) – shows all the skiers in the event.
- 2) Active scoring window for blue highlighted skier (indicated by green box below) – shows the specifics for the current skier.
- 3) Reference Information (indicated by red box below) – gives statistics about how long a “pull” is taking and ultimately the expected duration of the round; and boat time reference

The screenshot shows the following data:

Active Round: 1

Active Skier: Afonso, Alex

Skier Roster (Blue Box):

SkierName	Age Group	Event Class	Event Group
Afonso, Alex	B3	C	XX
Goodhue, Samuel	B2	C	XX
Tee, Jennifer	G3	C	XX
White, Tom	M5	C	XX
Arnberg, Michael	M5	C	XX
Goddard, Thomas	B2	C	XX
Goodhue, Christo...	B2	C	XX
Desmarais, Daniel	M5	C	XX
Goddard, William	B2	C	XX
Goodhue, Christo...	M4	C	XX
Evatt, Hank	B3	C	XX
Allen, David	M4	C	XX
Bellefeuille, Scott	M3	C	XX
Cole, Randall	M1	C	XX
Allen, Jennifer	W1	C	XX

Active Skier Configuration (Green Box):

- Speed: 31.7mph/51kph (selected), 29.8mph/48kph, 28.0mph/45kph, 26.1mph/42kph, 24.2mph/39kph
- Ramp Height: 5 Foot/5 (selected), 4 Foot/4, 4.5 Foot/4.5, 5.5 Foot/5.5
- Score Feet: 39
- Score Meters: 11.9
- NOPS: 52.1
- Boat: Undefined

Results Table (Red Box):

Rd	Pass	Boat	Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	31.7	✓	Jump	4.47	2.57	3.51	39	11.9	😊	☐	☐	:
1	2	42	29.8	✓	Jump	4.47	2.57	3.51	39	11.9	😊	☐	☐	:
1	3	42	28.0	✓	Jump	4.47	2.57	3.51	39	11.9	😊	☐	☐	:

Event Statistics (Red Box):

- Event Start: Skiers,
- Event Delay: Skiers,
- Event Duration: Mins Per Skier: [?], Mins Per Pass: [?]

The active round will dictate the default screen to display as each subsequent skier is scored. Regardless of the overall active round you can move between rounds for a given skier. As seen by the red circles above.

The Jump Score Entry window will note the scoring selection that is being used in the header bar:

- a) 3 segment timing
- b) 2 segment timing

The 2 segment timing will be used if the time value entered in the *Split52 Time* field is valid for the *82M Segment* time. This will require you to enter the full time and not the 2 digit short cut.

For example for 3 segment times for 31.7mph are 3.69, 2.10, 2.73 versus the 2 segment times of 5.79, 2.73.

To trigger a 2 segment time the user would have to enter 5.79 and not just 79 for this to work. This emulates the current DOS based WSTIMS application and reaches parity.

5.6.2 Jump: Skier Roster

The color coding for each of the skier's name will depict specific situations:

- f) Black Italic Font: Skier not scored yet for that given round
- g) Blue Font: Skier scored for that given round
- h) Green Highlighted: score is incomplete
- i) Red Highlighted: score has an error that must be fixed
- j) Blue Highlighted: skier currently being scored

The screenshot shows the WSTIMS software interface. At the top, there are menu options: Refresh, Print, Export, Filter, Sort, Save. Below this, it says "Row 5 of 16" and "Select event group Click refresh icon for". There are checkboxes for "Video Distance Calculate" and "Meter Distance Calculate". On the right, event statistics are shown: "Event Start: 12:43", "Event Delay: 00:00", "Skiers, 1, 1", "Event Duration: Mins Per Skier: Mins Per Pass:". The "Active Skier" is "Arnberg, Michael".

The "Skier Roster" table has columns: SkierName, Age Group, Event Class, Event Group. The skier "Arnberg, Michael" is highlighted in blue. Other skiers like "Afonso, Alex" (black italic), "Tee, Jennifer" (green), and "White, Tom" (blue) are also visible. A red circle highlights the "Arnberg, Michael" row, and a scroll bar is shown to its left.

The "Performance" section shows "Active Round" 1, "Speed" 31.7mph/51kph, "Ramp Height" 5 Foot/5, "Score Feet" 60, "Score Meters" 18.2, and "NOPS" 344.3. A "Note" table lists various event segments with their respective times and descriptions.

At the bottom, a "Status" table shows the following data:

Order	Rank Score	Rank Rating	Status	Jump Ht
	48.6	J5	4-Done	
	50.4	J7	2-InProg	
	0.0		1-TBD	
▶	61.2	J5	4-Done	
	62.1	J6	4-Done	
	63.3	J8	4-Done	

A legend at the bottom left explains the color coding: "Skier unscored" (black italic), "Skier scoring incomplete" (green), "Skier Scored" (blue), and "Skier scored with error" (red).

NOTE: the roster will refresh as you move between skiers. However you can also update the roster to show the current statuses buy using the Refresh icon at the top of the window.

If you scroll all the way to the right via the scroll bar, you can also see the following Status "text" for each skier. This will correspond to the color coding:

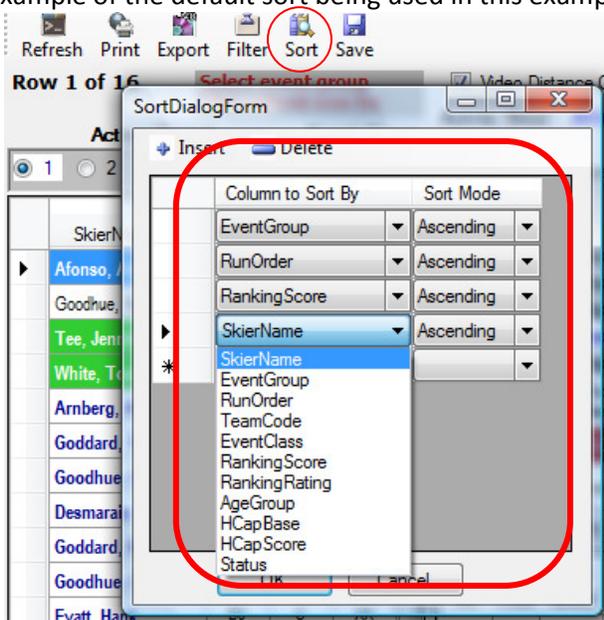
Order	Rank Score	Rank Rating	Status	Jump Ht
	48.6	J5	4-Done	
	50.4	J7	2-InProg	
	0.0		1-TBD	
▶	61.2	J5	4-Done	
	62.1	J6	4-Done	
	63.3	J8	4-Done	

There is a scroll bar at the bottom of the Skier Roster section, use this to move left or right in the roster. The following columns are available to view:

- Skier Name
- Age Group
- Event Class
- Event Group
- Team
- Order
- Rank Score
- Rank Rating
- Status
- Jump Ht

The default sort for the roster is set up by using the “Sort” button at the top of the window. However this can be overridden while you are in the roster.

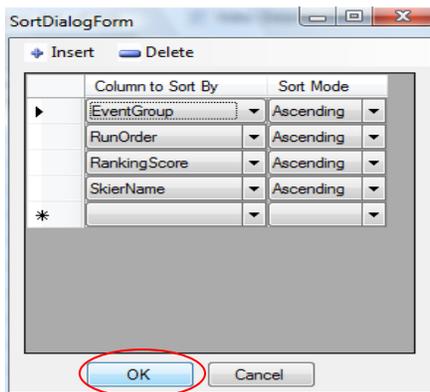
Example of the default sort being used in this example:



To change the sort for the roster without changing the default, simply click on the roster column heading you want to sort with. The first click will give you ascending order; the second click will give you descending order. The below example is sorting by skier name:

SkierName	Event Group	Age Group	Event Class
Afonso, Alex	XX	B3	C
Allen, David	XX	M4	C
Allen, Jennifer	XX	W1	C
Arnberg, Michael	XX	M5	C
Bellefeuille, Scott	XX	M3	C
Cole, Randall	XX	M1	C
Desmarais, Daniel	XX	M5	C

To return to the default sort, simply click on the **Refresh** button or **Sort** button then the Ok Button.



5.6.3 Jump: Reference Information

There are several areas that can be used as reference on the scoring window:

- Video Distance Calculate check box – is the default for all tournaments
- Meter Distance Calculate check box – can be used when meters are the source of jump distances
- Statistics that show the duration of the tournament, round and per skier; this is great tool to keep the tournament on track.
- Notes section, which is a free form text box.
- Boat time card, good reference for the boat times at each buoy; use the scroll bar to move up and down.
- Message box that displays information as jumps are scored.

Video Distance Calculate Meter Distance Calculate

Event Start: 12:43 Event Duration:
 Event Delay: 00:00 Mins Per Skier:
 Skiers, 1, 1 Mins Per Pass:

Note:

Key	Fast	Actual	Slow	Description
42-C-1st	4.36	4.48	4.61	42kph,26.1mph 1st (52M) Seg...
42-C-2nd	2.47	2.55	2.63	42kph,26.1mph 2nd (30M) Se...
42-C-3rd	3.21	3.28	3.43	42kph,26.1mph 3rd (41M) Se...
42-C-82M	6.83	7.03	7.24	42kph,26.1mph 82M Segment...
42-C-Balk	6.78	7.03	7.24	42kph,26.1mph Balk Standar...
42-C-3rd-RTB	3.21	3.28	3.63	42kph,26.1mph 3rd (41M) Se...

5.6.4 Jump: Jump Score Entry (Score a Skier)

Defaults

When you select a skier, the following fields default:

Skier Round: defaulted from the Active Round box

Start Speed: defaulted based on age division

Ramp Height: defaulted to the 'common' starting point for the age division

There are several check boxes on the window that are also defaulted:

Video Distance Calculate: it's assumed that video jump is being used

The *Video Distance Calculate* and *Meter Distance Calculate* check boxes are used to illustrate how the distances are being generated for the tournament. This information is included in the information that is sent to Headquarters.

NOTE: In the case that *Meter Distance Calculate* (jump meters) is being used to calculate jump distances; this feature assumes that the "Meter Setup" has already been completed. The process of recording scores for jumps is the same regardless of using jump meter or "video jump".

The *Boat* field is an optional field and the default is "Undefined".

Score a Skier

Confirm Start Speed with the boat judge before proceeding, once validated then click the 'Add Pass' button. The first row will be added for scoring. Example of initiating a pass for a skier:

Skier being scored is highlighted in Blue

Skier speed is 45 KPH and Ramp Height is 5.5 feet – defaults based on age division.

Click on **Add Pass** button to record first pass.

Key	Fast	Actual	Slow	Description
45-C-1st	4.07	4.18	4.25	45kph,28mph 1st (52M) Segm...
45-C-2nd	2.32	2.38	2.45	45kph,28mph 2nd (30M) Seg...
45-C-3rd	3.01	3.08	3.21	45kph,28mph 3rd (41M) Segm...
45-C-82M	6.39	6.56	6.74	45kph,28mph 82M Segment ...
45-C-Balk	6.34	6.56	6.74	45kph,28mph Balk Standard ...
45-C-3rd-RTB	3.01	3.08	3.41	45kph,28mph 3rd (41M) Segm...

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason

NOTE: All ramp heights are available for selection. The default for a skier will be based on their division and can be overridden by checking a different **Ramp Height**.

NOTE: Ramp height will be preserved for a given division as you move through the running order.

In the following example the first jump is successful; you will enter the boat time segments and distance (Feet/Meters) as they are called. The data will be accepted and the next progressive row will be created to score the next pass.

Helpful Hint: when entering Boat Times you can enter the last two digits and the rest of the number will default. Example: for a skier that is at 45KPH the first segment time actual is 4.18; you can enter 18 in the **Time** field and it will populate with 4.18.

ADVANCEMENT:

Row 1 of 16 Select event group Click refresh icon for Video Distance Calculate Meter Distance Calculate Event Start: 12:43 Event Delay: 00:00 Skiers, 1, 6 Event Duration Mins Per Skier Mins Per Pass

Active Skier: Afonso, Alex

Active Round: 1 Event Group: All

Skier Round: 1 Speed: 31.7mph/51kph Ramp Height: 5 Foot/5 Note:

SkierName Age Event Event

Afonso, Alex
Goodhue, Sam
Tee, Jennifer
White, Tom

Scores are captured. Best score is shown in summary boxes.

Jump advances the skier and distance can be called back to the boat judge. New row created for next jump.

Key	Fast	Actual	Slow	Description
42-C-1st	4.36	4.48	4.61	42kph,26.1mph 1st (52M) Seg...
42-C-2nd	2.47	2.55	2.63	42kph,26.1mph 2nd (30M) Se...
42-C-3rd	3.21	3.28	3.43	42kph,26.1mph 3rd (41M) Se...
42-C-82M	6.83	7.03	7.24	42kph,26.1mph 82M Segment...
42-C-Balk	6.78	7.03	7.24	42kph,26.1mph Balk Standar...
42-C-3rd-RTB	3.21	3.28	3.63	42kph,26.1mph 3rd (41M) Se...

Score Feet: 42 Score Meters: 12.8 NOPS: 144.0

Boat: Undefined

Buttons: Add Pass, Delete Pass, Skier Done

Rd	Pass	Boat Speed	RTB	Results	Split2 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.56	3.51	42	12.8	😊	<input type="checkbox"/>	<input type="checkbox"/>	
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.55	3.50	41	12.7	😊	<input type="checkbox"/>	<input type="checkbox"/>	
1	3	42	<input checked="" type="checkbox"/>	Jump						😞	<input type="checkbox"/>	<input type="checkbox"/>	

NOTE: That the Ramp Height can NOT be changed after the skier turn as started. The application will allow you to select a different height but it will NOT be saved (if you save or exit the screen and return the original height will display).

NOTE: To enter a 4th pass/jump, one of the previous passes must be checked as a *Reride*.

Meters Don't Convert Message

The pop up box will display when you enter meters that don't convert based on the number of feet the skier jumped. Confirm the distances and re-enter the information accordingly. Example:

Skier Round: 1 Start Speed: 31.7mph/51kph Ramp Height: 5 Foot/5 Note:

Score Feet: Score Meters: NOPS: Rating:

Boat: Undefined

Buttons: Add Pass, Delete Pass

Skiers, 0, 0 Mins Per Pass:

Meters don't convert to recorded feet
Input 3.0 meters converts to 10 feet
Input 97 feet converts to 29.6 meters

OK

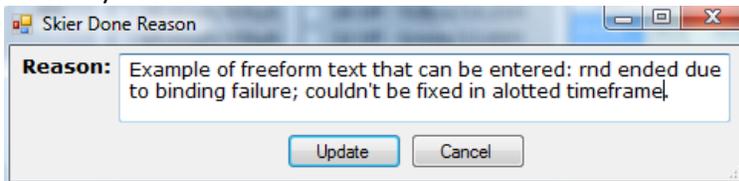
Rd	Pass	Boat Speed	RTB	Results	Split2 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	51	<input type="checkbox"/>	Jump	3.69	2.01	2.73	97	30	😊	<input type="checkbox"/>	<input type="checkbox"/>	3 Seg: Split1 ...

Skier Done Button

In the situation where a skier is unable to finish the round (i.e. equipment failure, injury), the **Skier Done** button can be used to end the round and preserve the score up to that point.



Once the **Skier Done** button is clicked upon, you will receive a pop up box to capture a reason to end the round prematurely:



Run Off Button

There is a feature that allows for one level of a run off. The functionality is such that you select the **RO** for the **Round** and score the skiers accordingly.

3 Segment versus 2 Segment Timing

The Jump Score Entry window will note the scoring selection that is being used in the header bar:

- c) 3 segment timing
- d) 2 segment timing

The 2 segment timing will be used if the time value entered in the **Split52 Time** field is valid for the **82M Segment** time. This will require you to enter the full time and not the 2 digit short cut.

For example for 3 segment times for 31.7mph are 3.69, 2.10, 2.73 versus the 2 segment times of 5.79, 2.73.

To trigger a 2 segment time the user would have to enter 5.79 and not just 79 for this to work. This emulates the current DOS based WSTIMS application and reaches parity.

Return to Base Line (RTB)

RTB is "Return to Base Line". This is used if the 3rd segment time is slow and the skier is either small or a novice jumper. It enables consideration when boat times are validated for those skiers that do not force the boat to go fast in the 3rd segment, mainly because they are not pulling hard enough as they travel to the ramp.

When this is the case use the **RTB** check box so that the boat times are evaluated appropriately when scoring occurs.

Active Round: Row 3 of 16

Event Start: 19:00
Event Delay: 00:00
Skiers, 3, 3

Event Duration: Mins Per Skier: Mins Per Pass:

SkierName	Event Group	Age Group	Event Class
Afonso, Alex	XX	B3	C
Goodhue, Samuel	XX	B2	C
Tee, Jennifer	XX	G3	C
White, Tom	XX	M5	C
Arnberg, Michael	XX	M5	C
Goddard, Thomas	XX	B2	C
Goodhue, Christo...	XX	B2	C
Desmarais, Daniel	XX	M5	C
Goddard, William	XX	B2	C
Goodhue, Christo...	XX	M4	C
Evatt, Hank	XX	B3	C
Allen, David	XX	M4	C
Bellefeuille, Scott	XX	M3	C
Cole, Randall	XX	M1	C

Skier Round: 1 (selected)

Start Speed: 31.7mph/51kph (selected)

Ramp Height: 5 Foot/5 (selected)

Score Feet: 97, Score Meters: 29.6, NOPS: 976.3, Rating:

Boat: Undefined

Key	Actual	Fast	Slow	Description
51-C-1st	3.69	3.60	3.77	51kph,31.7mph 1st (52M) Seg...
51-C-2nd	2.1	2.05	2.16	51kph,31.7mph 2nd (30M) Se...
51-C-3rd	2.73	2.68	2.84	51kph,31.7mph 3rd (41M) Se...
51-C-82M	5.79	5.65	5.93	51kph,31.7mph 82M Segment...
51-C-Balk	5.79	5.60	5.93	51kph,31.7mph Balk Standar...
51-C-3rd-RTB	2.73	2.68	3.04	51kph,31.7mph 3rd (41M) Se...

3 Seg: Split1 OK, Split2 Fast, End Ok

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	51	<input type="checkbox"/>	Jump	3.69	2.01	2.73	97	29.6	☹	<input type="checkbox"/>	<input type="checkbox"/>	3 Seg: Split1 ...
1	2	51	<input type="checkbox"/>	Jump						☹	<input type="checkbox"/>	<input type="checkbox"/>	

Protected Score Box

If a pass compiles with AWSA rules and needs to be protected, for example in the case of a fast boat time the **Prot** box will automatically check off and the **Reride Reason** box will auto-populate (note this field can be added to if need be). Example:

Jump Score Entry - 3 Segment Timing

Active Round: Row 1 of 16

Event Start: 19:00
Event Delay: 00:00
Skiers, 3, 6

Event Duration: 01:38
Mins Per Skier: 32:49
Mins Per Pass: 16:24

SkierName	Event Group	Age Group	Event Class
Afonso, Alex	XX	B3	C
Goodhue, Samuel	XX	B2	C
Tee, Jennifer	XX	G3	C
White, Tom	XX	M5	C
Arnberg, Michael	XX	M5	C
Goddard, Thomas	XX	B2	C
Goodhue, Christo...	XX	B2	C
Desmarais, Daniel	XX	M5	C
Goddard, William	XX	B2	C
Goodhue, Christo...	XX	M4	C
Evatt, Hank	XX	B3	C
Allen, David	XX	M4	C
Bellefeuille, Scott	XX	M3	C
Cole, Randall	XX	M1	C
Allen, Jennifer	XX	W1	C

Skier Round: 1 (selected)

Start Speed: 26.1mph/42kph (selected)

Ramp Height: 5 Foot/5 (selected)

Score Feet: 39, Score Meters: 11.9, NOPS: 52.1, Rating:

Boat: Undefined

Key	Actual	Fast	Slow	Description
51-C-1st	3.69	3.60	3.77	51kph,31.7mph 1st (52M) Seg...
51-C-2nd	2.1	2.05	2.16	51kph,31.7mph 2nd (30M) Se...
51-C-3rd	2.73	2.68	2.84	51kph,31.7mph 3rd (41M) Se...
51-C-82M	5.79	5.65	5.93	51kph,31.7mph 82M Segment...
51-C-Balk	5.79	5.60	5.93	51kph,31.7mph Balk Standar...
51-C-3rd-RTB	2.73	2.68	3.04	51kph,31.7mph 3rd (41M) Se...

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	☺	<input type="checkbox"/>	<input type="checkbox"/>	
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	☺	<input type="checkbox"/>	<input type="checkbox"/>	
1	3	42	<input type="checkbox"/>	Jump	4.00	2.40	3.30	39	11.9	☹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fast split but ...

Fast split but good for max speed, optional reride, score protected : 3 Seg: Split1 Fast, Split2 F

Helpful Hint: Since you can't see all the text in the **Reride Reason** field, you can "hover" your cursor and the text will display

Re-Ride Check Box

Re-ride requirements based on boat times will automatically be determined based on AWSA specified rules. When split times are determined to be out of tolerance an appropriate message to indicate reason and will be shown the blue message area. This message will also be stored in the "Reride Reason" cell for the pass.

Rd	Pass	Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.56	3.51	42	12.8	😊	<input type="checkbox"/>	<input type="checkbox"/>	
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.55	3.50	41	12.7	😊	<input type="checkbox"/>	<input type="checkbox"/>	
1	3	42	<input checked="" type="checkbox"/>	Jump	4.03	2.55	3.50	39	11.9	😞	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Fast split but...

For manually triggered re-rides, the **Reride** box must be checked, and a reason needs to be entered. The **Reride Reason** box will pop-up once the **Reride** box is checked off. Note that in the case of a 'bad' boat time the reason will pre-populate and can be appended to or changed all together. Example:

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input type="checkbox"/>	<input type="checkbox"/>	:
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input type="checkbox"/>	<input type="checkbox"/>	:
1	3	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If you want to change **Reride Reason** field after you click on of the **Update** buttons, then double click on the field to activate the field for typing.

Since there was a re-ride, then a new row will be presented so the re-ride pass can be scored:

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input type="checkbox"/>	<input type="checkbox"/>	:
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input type="checkbox"/>	<input type="checkbox"/>	:
1	3	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9	😊	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Use this box t...
1	4	42	<input checked="" type="checkbox"/>	Jump						😞	<input type="checkbox"/>	<input type="checkbox"/>	

If you use the **Update With Protected Score** button the **Prot** check box will also be checked as a result:

Rd	Pass	Boat Speed	RTB	Results	Split52 Time	Split30 Time	End Time	Feet	Meters	Time Good	Re ride?	Prot	RerideReason
1	1	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9		<input type="checkbox"/>	<input type="checkbox"/>	:
1	2	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9		<input type="checkbox"/>	<input type="checkbox"/>	:
1	3	42	<input checked="" type="checkbox"/>	Jump	4.47	2.57	3.51	39	11.9		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Use this box t...
1	4	42	<input checked="" type="checkbox"/>	Jump							<input type="checkbox"/>	<input type="checkbox"/>	

Delete Button

In the situation where a pass needs to be started over or needs to be deleted, use the Delete button. **NOTE:** that this functionality will ONLY delete the current score being recorded.

Additional Features/ICONS

Export: Creates a file that contains all the tricks and applicable points.

Filter: Allows criteria to be specified to show only items in the list that match the specified criteria. All entries not matching the criteria are hidden.

Sort: Allows sort criteria to be specified that are applied to the list.

Save: Writes any changes to the database. Generally this is not necessary because automatic saves are performed at frequent logical intervals such as when moving within the application.

Refresh: Retrieves updates from the registration list and related attributes, along with updates as skiers are being scored.

5.6.5 Jump: Running Order

This feature is the same as the [Tournament → Running Order](#) feature. The window defaults to the slalom event when opened.

5.6.6 Jump: Summary

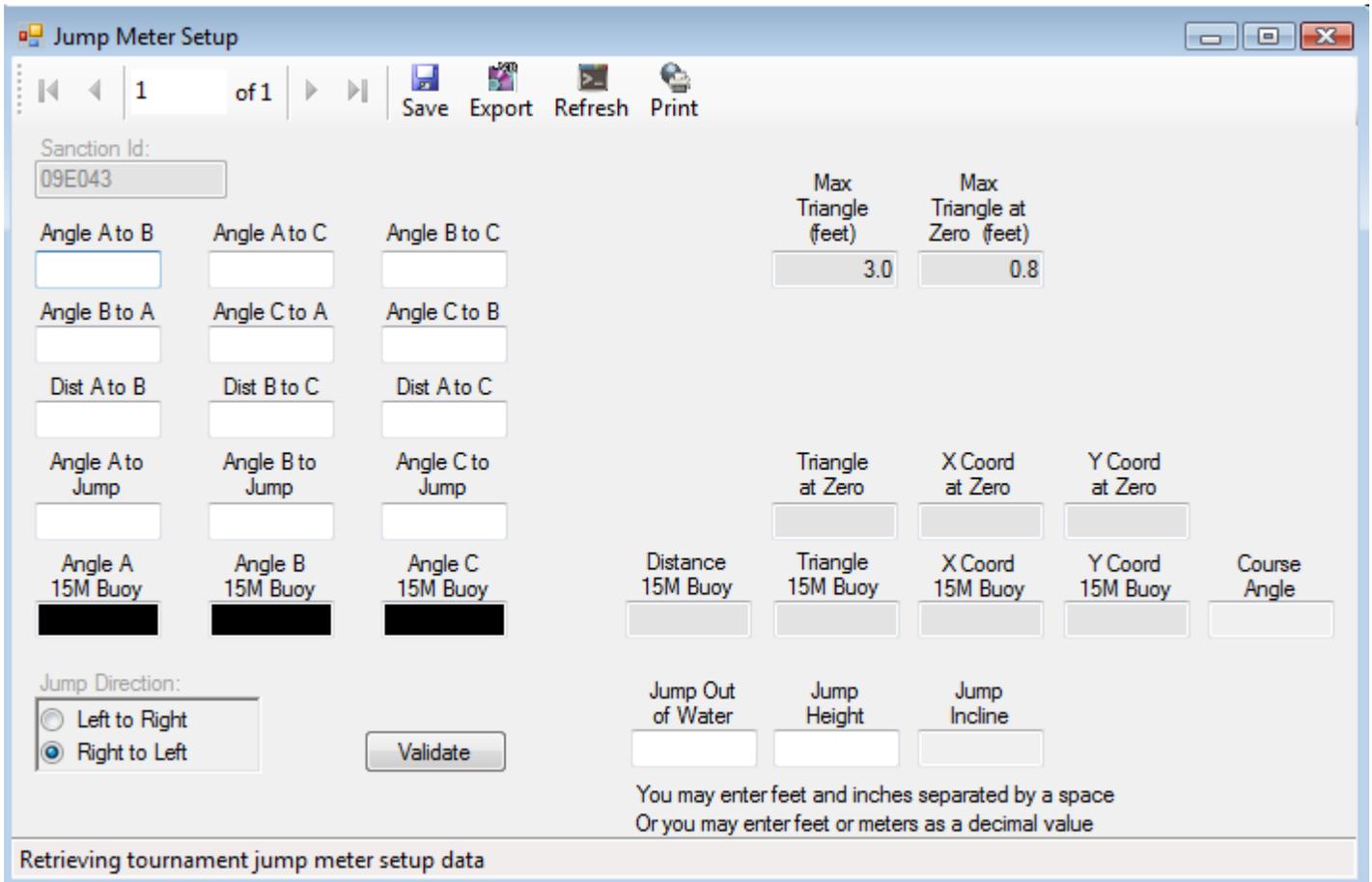
This feature is the same as the [Slalom → Summary](#) feature. The window defaults to the slalom event when opened.

5.6.7 Jump: Team Summary

This feature is the same as the [Slalom → Team Summary](#) feature. The window defaults to the slalom event when opened.

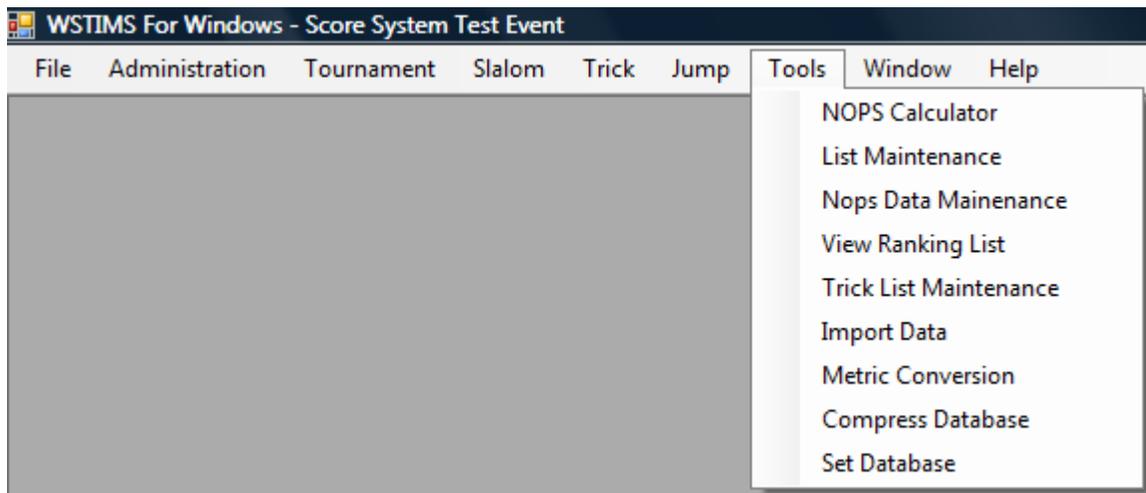
5.6.8 Jump: Meter Setup

To support the manual jump metering system, this feature is used to enter the attributes to allow distances to be calculated using the Johnson Meter setup.



5.7 Tool Bar: Tools

The *Tools* selection allows for additional reference information during the tournament, from a *NOPS Calculator* to *Metric Conversion* grid.



The feature descriptions are as follows:

NOPS Calculator: Used to view NOPS values for various performances.

List Maintenance: Used to view various data lists used to support the application. **ONLY** to be used in the case of urgency. Lists are updated when the application is upgraded.

NOPS Data Maintenance: Used to view the NOPS values. Currently the information only contains AWSA data but the intention is to have it contain the factors used for overall by other organizations as well.

View Ranking List: Used to view data import during the member import process. It is possible to update data as well to support onsite modifications.

Trick List Maintenance: Used to view data import during the member import process. It is possible to update data as well to support onsite modifications.

Import Data: Used to import all forms of data. Each window in the application will be capable of exporting its data. This function will be used to import any data.

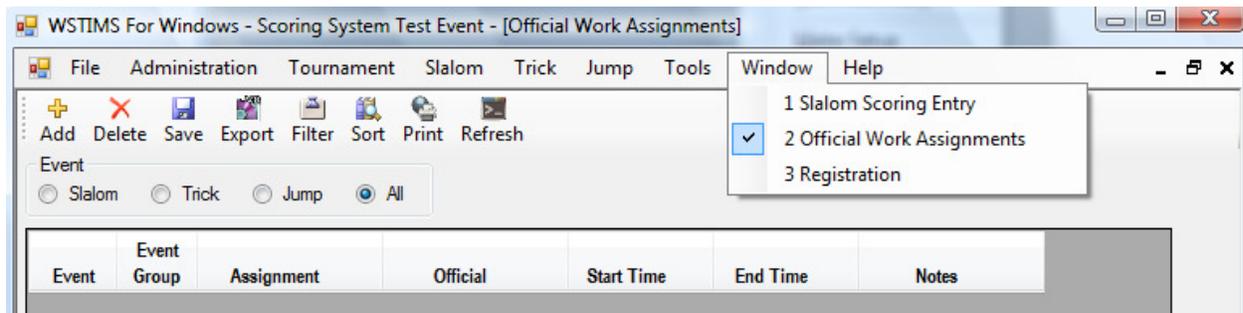
Metric Conversion: Convert feet to meters and meters to feet.

Compress Database: Used to reduce the size of the database. This process will happen automatically during an upgrade and is made available for those that score a high volume of tournaments to help decrease the size of the database and increase the efficiency.

Set Database: Sets your database file location if using something other than the default file location.

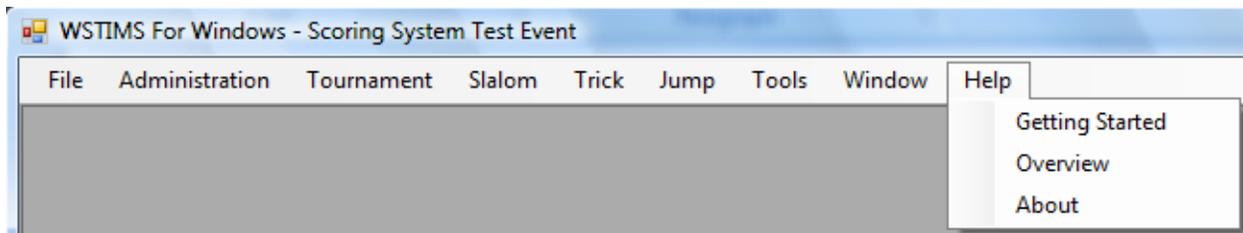
5.8 Tool Bar: Window

The [Window](#) selection from your tool bar can be used to see the other open windows and also allows you to jump to another window. The window that has a check box is the current active window (the one in front or that is maximized):



5.9 Tool Bar: Help

[Help](#), allow you to search for information about the application. This should not be used to search for USA Water Ski Rules, please refer to the official Rule Book.



6 SECTIONS TO BE BUILT:

6.1 Definitions:

- Event Group

- Group

- Round

- Official

- IWWF

NOPS is the AWSA National Overall Performance Standard that has factors per event per age division

Placement is a method used to determine an overall score by awarding a skier 10 points per placement position times the number of skiers in an event (e.g. the first place skier receives 100 points for an event with 10 skiers participating)

1000 Base is a method generally used in IWWF tournaments where the highest score for an event is given 1000 overall points and the overall points for a skier is equal to 1000 times the ratio of the skier score divided by the high score

Base Ratio is a handicap method where a skiers overall points for an event is equal to 100 times the ration of the skiers score divided by the national ranking average

6.2 Quick Reference Guide:

- Handicap

- Copy a tournament

- Create end-of-tournament Package for USA Water Ski Headquarters

6.3 Error Messages: