

The heart of the SuperACE and FLIPS software systems is in the user interface screens. The software screens allow for greater flexibility and take advantage of the MS Windows™ operating system.

The user will first be presented with the Opening Screen for a selected project. This screen gives a list of all the stands stored within a project. Each of the stands has a Stand Information Screen associated with it. The Stand Information Screen contains a subset of dialog screens which handle different aspects of stand data compilation and editing. It is in these dialog screens that the user defined project Tables (see *Using Tables in SuperACE* booklet) are associated with stand data.

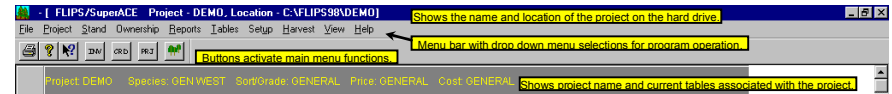
## Opening Screen

This is the first screen you see when you start SuperACE or FLIPS. It shows a list of all stands associated with the current project and is where the user accesses the stands and menu functions. This screen is where the following operations are performed.

- |   |                                     |
|---|-------------------------------------|
| Make a new project or stand             | Import data from DOS SuperACE/Flips |
| Access stand information screens        | Run and print reports               |
| Copy, delete or edit a project or stand | Set project defaults                |
| Copy, delete or edit a project tables   | Download data from a data recorder  |
| Copy, delete or edit plot data          |                                     |

	TwN	Rge	Sec	Tract	Type	Acres	Inv	Cru	Rfs	Sl	Cl	ScI	Src	Examine Date	Grown Date	Desc	Category	Site Index	Cruiser	Plots
1	01N	25W	01	OCEAN	0001	50.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0	TOBY AT...	7.00
2	01N	25W	01	OCEAN	0002	10.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0		2.00
3	01N	25W	01	OCEAN	0003	42.60	Y	Y	N	N	N	N	TC	6/1998	7/1998			0	JRA	5.00
4	01N	25W	01	OCEAN	0004	30.10	Y	Y	N	N	N	N	TC	6/1998	7/1998			0	JRA	4.00
5	01N	25W	01	OCEAN	0005	1.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0	TOBY	0.00
6	01N	25W	01	OCEAN	0006	40.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
7	01N	25W	01	OCEAN	0007	5.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
8	01N	25W	01	OCEAN	0008	15.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0		1.00
9	01N	25W	01	OCEAN	0009	35.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
10	01N	25W	01	OCEAN	0010	25.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
11	01N	25W	01	OCEAN	0011	35.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0		1.00
12	01N	25W	01	OCEAN	0012	25.00	Y	Y	N	N	N	N	KB	6/1998	7/1998			0		1.00
13	01N	25W	01	OCEAN	0021	8.60	Y	N	N	N	N	N	KB	6/1998	6/1998	RO	NT	0		0.00
14	01N	25W	01	OCEAN	0022	11.70	Y	N	N	N	N	N	KB	6/1998	6/1998	LA	NT	0		0.00
15	01N	25W	01	OCEAN	0040	5.60	Y	N	N	N	N	N	KB	6/1998	6/1998	ST	NT	0		0.00
16	01N	25W	01	OCEAN	0055	25.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
17	01N	25W	01	OCEAN	0065	1.00	Y	N	N	N	N	N	KB	6/1998	6/1998	CC	NS	100		0.00
18	01N	25W	01	OCEAN	0066	60.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
19	01N	25W	01	OCEAN	8888	10.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
20	01N	25W	01	OCEAN	PP12	25.00	Y	Y	N	N	N	N	KB	7/1998	7/1998			0		1.00
21	01N	25W	02	OCEAN	0013	40.00	Y	N	N	N	N	N	KB	6/1998	6/1998	CC	NS	111		0.00
22	01N	25W	02	OCEAN	0015	40.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
23	01N	25W	03	LAKE	0038	40.00	Y	N	N	N	N	N	KB	6/1998	7/1998			0		0.00
24	01N	25W	03	LAKE	0039	120.00	Y	N	N	N	N	N	KB	7/1998	7/1998			0		0.00
25	01N	25W	07	LAKE	0038	40.00	Y	N	N	N	N	N	KB	6/1998	5/1998			0		0.00

Following is a description of the opening screen's banner and tool buttons.



## Tool Buttons

- Print Button – Prints the opening screen on the default printer.
- About Button – Displays software version and installation code.
- Help Button – Opens the on-line help screen.
- Inventory Button – Opens the FI-Input screen in FLIPS.
- Cruise Data Button – Opens the TC-Edit screen in SuperACE.
- Project Button – Opens the project selection screen.
- Harvest Planning Button – Not active at this time.

## Stand Information Screen

Each stand in a project is accessed through a stand information screen. It is a collection of dialog screens that contain all the data associated with a given stand. This includes stand information such as location, associated cost and price tables, cruiser name, etc.; tree details; stand history and planning; land and soils information; and GIS information. In this dialog the user can add or edit information via the screen tabs. It is also possible to move through the list of stands in the selected project using the four buttons, First, Previous, Next, and Last.

The screenshot shows the 'Stand Information' dialog box with the following tabs highlighted in yellow: TC - Scaling, TC - Transect, FI - Spp Sum, FI - Stand, FI - Sort/Grade, FI - History/Plan, FI - Land/Soils, FI - Stand Input, Type Master, TC - Tree Edit, TC - Tree Input, TC - Plot Loc, TC - Dbh Cru/Cnt, TC - Extra Tree Mea, and TC - Reforestation. The main form contains fields for Township (01N), Range (25W), Section (01), Tract (OCEAN), Type (0002), Acres (8000), and Plots (8). It also includes sections for Price, Cost, Source, Inventory Adjustment, Cruiser, and various sampling information tables.

The above screen shows all the screen tabs that would be available if both SuperACE and FLIPS modules are installed on a PC.

If only the **SuperACE** module is installed, then the user would only see the following screen tabs:

**Type Master**      **TC-Tree Edit**      **TC-Tree Input**      **TC-Plot Loc**  
**TC-Dbh Cru/Cnt**   **TC-Extra Tree Mea** **TC-Reforestation**   **TC-Scaling**      **TC-Transect**

The TC in front of the title stands for Timber Cruise.

If only the **FLIPS** module is installed, then the user would only see the following screen tabs:

**Type Master**      **FI-Spp Sum**      **FI-Stand**      **FI-Sort/Grade**      **FI-History/Plan**  
**FI-Stand Input**

The FI in front of the title stands for Forest Inventory.

## Type Master Screen

This screen is accessed by double clicking on the gray area to the left of the TWN number on the opening screen. This screen contains all the inventory and cruise information associated with a given type (stand) in a distinct township, range, and section location. This includes information such as location, tract name, type number, stand size, cost and price tables, cruiser name, site index, BAF, age, etc. A master is either created by hand entering values, downloading data from a field data recorder, or by copying or exploding a stand. Type master is the first dialog screen that appears when the stand information screen is opened.

This screenshot shows the 'Stand Information' dialog box with the 'Type Master' tab selected. The interface is identical to the previous screenshot, but only the 'Type Master' tab is highlighted. The data entered in the form is the same: Township (01N), Range (25W), Section (01), Tract (OCEAN), Type (0002), Acres (8000), and Plots (8).

## TC - Tree Input Screen

The TC – Tree Input Screen is accessed by clicking on the **TC – Tree Input** tab of the stand information screen. It is this screen where timber cruise plot data is entered. The data is entered directly into the screen cells and through the insert tree, delete tree, and replace buttons located at the bottom of the screen.

defined in the type master screen (i.e. B1 is entered in the PF column and 33.61 is entered next to B1 in the type master screen). Glass prisms should always be checked for the proper prism factor. A letter followed by a number (i.e. F1, R1 or S1) is referring to a Plot Factor in the type master screen. These refer to various sampling systems and plot sizes.

Up to 5 options for each sampling system can be used:

System	Option	Example (As entered in Type Master)
Basal Area Factor:	B1 thru B5	B1 = 27.78
Fixed Area Plots:	F1 thru F5	F1 = 0.25 (One quarter acre plot)
Reforestation Plot Radius:	R1 thru R5	R1 = 11.78 (1/100 acre plot)
Strip Cruise Blowup:	S1 thru S5	S1 = 4.00 ( 25% strip cruise)

### Identification

**A. - Age (required):** A one digit numeric field for age code. The age in years is input on the cruise master screen. Default age is code 1. Up to nine ages can be input per type. Age is used for calculating the tree form, bark factors, growth, and for age class reports. If no age is assigned, then a default age of 30 is used for volume calculations.

**Spp. – Species (required):** A six digit alpha/numeric field is provided for species. The numbers or letters must match the active species screen. A species table must be active before the cruise data is entered. Species is very important. It is usually not a good idea to group species. Each individual species should be entered on the species table with appropriate factors and limits.

**St. – Status (optional):** A one digit alpha/numeric field. Input must match codes in the status table. Status is used to indicate dead trees, etc.

**Ct. - Count (optional):** The tree count. A two digit numeric field is provided for tree count. Count plots are used to adjust the trees per acre for the trees on the cruise plot. Trees can be counted on the plots by species and diameter. Count plots can be used with BAF, fixed area plots, and strip cruises. Blank plots are entered as a count plot with a species code and a 0 in the Ct. column.

### Measurements

**DBH – Diameter Breast Height:** This field is required when cruising volume plots and optional when cruising count and regeneration plots. DBH is a four digit numeric field, including the decimal point, is provided for diameter. This diameter is normally at 4.5 feet above the ground on the uphill side of the tree. This diameter is measured four feet or 1.3 meters above the stump outside the bark. Diameters less than 99.9 inches can be input to the nearest tenth inch. Trees larger than 100 inches are input to the nearest inch.

**FP – Form Point (required) –** A two digit numeric field is provided for form point. Default is DBH (four feet above the stump). Form point is where Form Factor is measured and/or where the tree taken "in" with a BAF. If form point is defined as four feet, the program will automatically use a form point of 16 feet to calculate Form Factor. Form point can be varied for each tree if needed.

**FF – Form Factor (required for measure plots) –** A two digit numeric code. Form factor is the percent relationship of the diameter at Form Point (16 feet) divided by the DBH. Default values

## Data Input Fields

**Plot No. - Plot Number.** A Four digit plot number, alpha/numeric, is assigned to each plot. Each plot in a timber type must have a unique number. Duplicate plot number will be computed as one plot. The program will check for duplicate plot numbers when you start entering a plot. Plot numbers should be pre-assigned when more than one cruiser is taking plots in a type. Plot Number –000 means the tree on the line is a 100% cruise and the tree volume will be added separately to a plot cruise. A strip cruise value of 1.00 does the same thing.

**Tree No. - Tree Number.** A three digit numeric field. Tree number is assigned by the computer except when measuring permanent plots. Users input tree numbers when measuring permanent plots for growth and each tree is going to be measured more than once.

**PF – Plot Factor or Prism Factor.** A two digit alpha numeric field. When a two digit number is entered, the field is a Prism Factor or Basal Area Factor ( i.e. 20 equals a 20 BAF). If a decimal value is used for a prism factor then a B1, B2, B3, B4 or B5 is entered with the prism factor value

for Form Factor by species are input on the species screen. If no form factor is entered, the form factor from the species table will be used.

**TD** – Top Diameter (required for measure plots). A one digit alpha/numeric field. Top diameter is the diameter outside the bark at the top of the bole. This is entered as a single digit percent value or as an alpha value for diameter. As shown below.

Top Diameter Fractions of FP		Top Diameters		Top Diameters	
TDF = top dia. / dia. at Form Point		Alpha Codes		Alpha Codes	
Code = % of diameter at FP	Code = Inches	Centimeters	Code = Inches	Centimeters	
0 = Total Height	A = 1	2.5	N = 14	35.0	
1 = 10%	B = 2	5.0	O = 15	37.5	
2 = 20%	C = 3	7.5	P = 16	40.0	
3 = 30%	D = 4	10.0	Q = 17	42.5	
4 = 40%	E = 5	12.5	R = 18	45.0	
5 = 50%	F = 6	15.0	S = 19	47.5	
6 = 60%	G = 7	17.5	T = 20	50.0	
7 = 70%	H = 8	20.0	U = 21	52.5	
8 = 80%	I = 9	22.5	V = 22	55.0	
9 = 90%	J = 10	25.0	X = 23	57.5	
	K = 11	27.5	W = 24	60.0	
	L = 12	30.0	Y = 25	62.5	
	M = 13	32.5	Z = 26	65.0	

**Bole Ht.** – Bole Height (required for measure plots)– A three digit numeric field. Bole height is the distance from the stump to the Top Diameter Fraction or the Top Diameter outside the bark to the nearest foot or meter.

**Tot Ht.** - Total Height (optional) -A three digit numeric field. Total height is the distance from the stump to the tip of the tree. Maximum tree height for a species is input on the species screen. Bole height and tree height can be entered individually or together.

**Classification** (optional)

**Po (T1)** – Position

- O = over-story – Older age trees, usually residual
- D = dominant
- C = co-dominant
- I = intermediate
- S = suppressed
- U = under-story – younger trees than the main canopy

**CR (T2)** – Crown Ratio percent of the tree length with canopy.

- 1 = 10%
- 2 = 20%
- 3 = 30 %
- 4 = 40%
- 5 = 50%
- 6 = 60%
- 7 = 70%

- 8 = 80%
- 9 = 90%

**Vi (T3)** – Vigor

- H = healthy, living tree, may have damage
- M = alive, but damaged and/or is not normal.
- D = dying

**Da (T4)** – Damage

- A = animal damage, unknown species
- B = bear
- C =
- D = deer
- E =
- F = fire
- G =
- H =
- I = insects
- J = J rooted when planted
- K =
- L =
- M =
- N =
- O =
- P =
- Q =
- R =
- S =

**T5** – other

**Segments - Up to 12 Segments can be described for each tree (required for volume calculation).**

**S#** - Segment number – two digit automatically assigned by the program. This includes cull segments, breakouts and logs.

**S** - Sort - A single alpha or numeric code as described in the active sort/grade table.

**G** - Grade - A single alpha or numeric code as described in the active sort/grade table.


**Ln** – Segment length. Two digit numeric. Log length min and max are input on species, sort and grade tables.

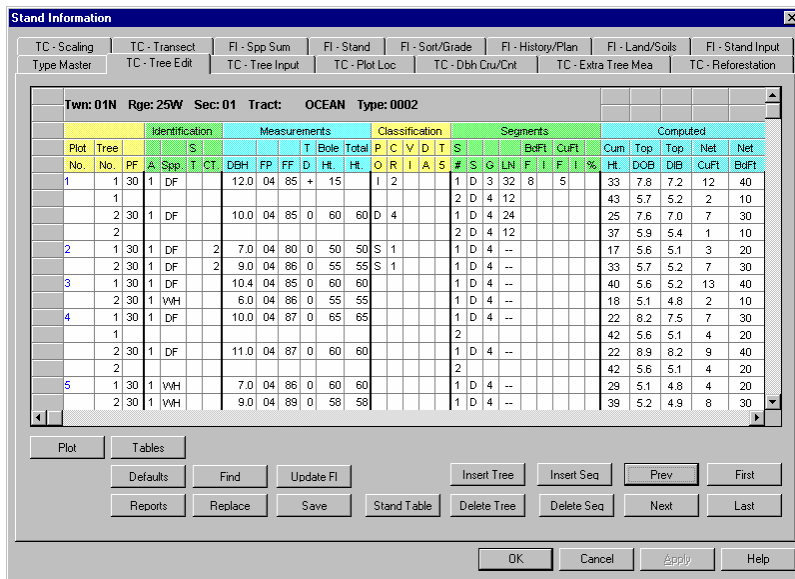
**Bd. Ft.** **F.** - Board Foot length deductions.  
**I.** - Board Foot diameter deductions

**Cu. Ft.** **F.** – Cubic Foot length deductions  
**I.** – Cubic Foot diameter deductions

% - Numeric field left blank when using length or diameter deductions. A 1 is entered when percentage deductions for both board foot and cubic feet are to be used. Percentages are entered as whole numbers (i.e. 10 equals 10% and 05 equals 5%).

## TC - Tree Edit Screen

This screen is accessed by clicking the  button located on the opening screen tool bar after the desired stand has been selected. Or by clicking the **TC - Tree Edit** tab of the stand information screen. It shows the data as it was entered in the **TC - Tree Input** screen along with the computed values and error messages for each log segment. This screen is used to edit the tree data that was entered in the TC - Tree Input screen. The tree data is edited directly into the screen cells and through the insert segment, delete segment, insert tree, delete tree, and replace buttons located at the bottom of the screen. The fields in this screen are the same as those in the TC - Tree Input screen, with the exception of the following fields. These fields are found on the right side of the screen.



**Stand Information**  
 TC - Scaling | TC - Transect | FI - Spp Sum | FI - Stand | FI - Sort/Grade | FI - History/Plan | FI - Land/Soils | FI - Stand Input  
 Type Master | TC - Tree Edit | TC - Tree Input | TC - Plot Loc | TC - Dbh Cru/Cnt | TC - Extra Tree Mea | TC - Reforestation

Twn: 01N Rge: 25W Sec: 01 Tract: OCEAN Type: 0002

Plot Tree		Identification				Measurements				Classification				Segments				Computed									
No.	No.	PF	A	Spa	T	CT	DBH	FP	FF	D	Ht.	T	Bole	Total	P	C	V	D	T	S	BdFt	CuFt	Cum	Top	Top	Net	Net
1	30	1	DF				12.0	04	85	+	15	1	2		1	D	3	32	8	5			33	7.8	7.2	12	40
	1																						43	5.7	5.2	2	10
2	30	1	DF				10.0	04	85	0	60	60	D	4									25	7.6	7.0	7	30
	2																						37	5.9	5.4	1	10
2	30	1	DF				7.0	04	80	0	50	50	S	1									17	5.6	5.1	3	20
	2						9.0	04	86	0	55	55	S	1									33	5.7	5.2	7	30
3	30	1	DF				10.4	04	85	0	60	60											40	5.6	5.2	13	40
	2						6.0	04	86	0	55	55											18	5.1	4.8	2	10
4	30	1	DF				10.0	04	87	0	65	65											22	8.2	7.5	7	30
	1																						42	5.6	5.1	4	20
	2																						22	8.9	8.2	9	40
	2																						42	5.6	5.1	4	20
5	30	1	WH				7.0	04	86	0	60	60											29	5.1	4.8	4	20
	2						9.0	04	89	0	58	58											39	5.2	4.9	8	30

Buttons: Plot, Tables, Defaults, Find, Update FI, Reports, Replace, Save, Stand Table, Insert Tree, Insert Seq, Prev, First, Delete Tree, Delete Seq, Next, Last, OK, Cancel, Apply, Help

**Computed** ( These fields are calculated automatically by the program.)

**Cum Ht.** - Cumulative Height - Height of segments including trim.

**Top DOB** - Top Diameter Outside Bark - The small end of the log, outside the bark, as specified in the scaling rule.

**Top DIB** - Top Diameter Inside Bark - The small end of the log, inside the bark, as specified in the scaling rule.

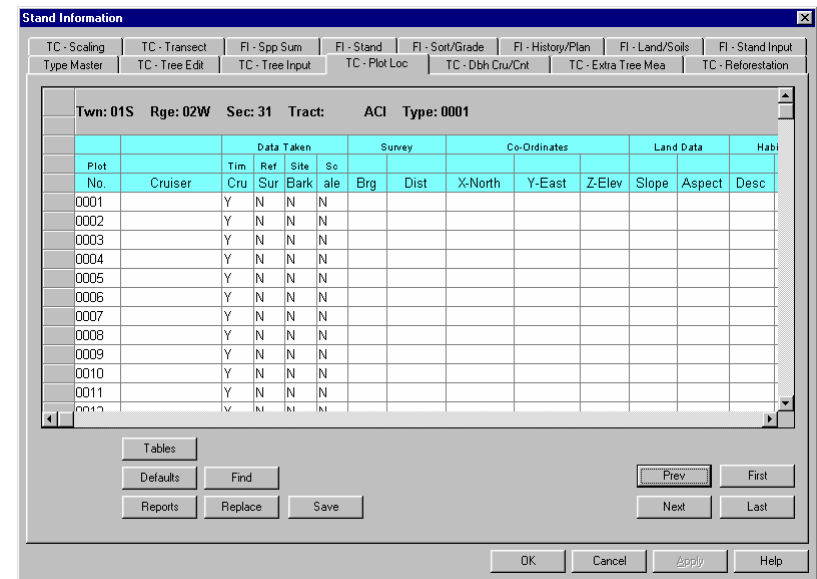
**Net CuFT** - The cubic feet in a log less defect deductions.

**Net BdFt** - The board feet in a log less defect deductions.

If a tree segment does not meet any of the parameters defined in the species or sort and grade tables an error message will appear in red to the right of the computed fields. Once the segment is edited the message will disappear.

## TC - Plot Loc

The TC - Plot Loc screen is accessed via the **TC - Plot Loc** tab of the stand information screen. This screen allows the user to input, through keyboard or data recorder download, direction of travel, coordinates (state plane, latitude/longitude, or UTM system), slope, aspect, and habitat description for each cruise plot.



**Stand Information**  
 TC - Scaling | TC - Transect | FI - Spp Sum | FI - Stand | FI - Sort/Grade | FI - History/Plan | FI - Land/Soils | FI - Stand Input  
 Type Master | TC - Tree Edit | TC - Tree Input | TC - Plot Loc | TC - Dbh Cru/Cnt | TC - Extra Tree Mea | TC - Reforestation

Twn: 01S Rge: 02W Sec: 31 Tract: ACI Type: 0001

Plot No.	Cruiser	Cru	Data Taken			Survey		Co-Ordinates			Land Data			Habi
			Tim	Ref	Site	Sc	Brg	Dist	X-North	Y-East	Z-Elev	Slope	Aspect	
0001		Y	N	N	N									
0002		Y	N	N	N									
0003		Y	N	N	N									
0004		Y	N	N	N									
0005		Y	N	N	N									
0006		Y	N	N	N									
0007		Y	N	N	N									
0008		Y	N	N	N									
0009		Y	N	N	N									
0010		Y	N	N	N									
0011		Y	N	N	N									
0012		Y	N	N	N									

Buttons: Tables, Defaults, Find, Prev, First, Reports, Replace, Save, Next, Last, OK, Cancel, Apply, Help

## Fields

**Plot No.** - Plot number is filled automatically based on plot numbers entered in the TC - Input Screen or the TC - Edit Screen.

**Cruiser** – The name of the cruiser who did the cruise. Entered automatically as it was entered in the type master or data recorder.

**Data Taken Section**

- Tim Cru** – A 'Y' flag is automatically filled if the plot was used in a timber cruise.
- Ref Sur** - A 'Y' flag is automatically filled if the plot was used in a reforestation survey.
- Site Bark** - A 'Y' flag is automatically filled if data was entered in the TC – Extra Tree Measurement screen.
- Scale** - A 'Y' flag is automatically filled if data was entered in the TC – Scaling screen.

**Survey Section (optional)**

- Brg** – Direction to next plot in azimuth (45) or bearing (N45E) degrees.
- Dist.**- Distance in feet to next plot if measure units are set to E. Distance in meters to next plot if measure units are set to M.

**Co-ordinates (optional)**

- X-North** – Northing coordinates in units based on coordinate system in use.
- Y-East** – Easting coordinates in units based on coordinate system in use.
- Z-Elev** – Elevation in feet or meters.

**Land Data (optional)**

- Slope** – Slope at plot center in degrees or percent.
- Aspect** – Slope aspect at plot center designated by an alpha code that is described in the active Aspect table.

**Habitat (optional)**

- Desc** – Four character alpha/numeric field describing habitat.
- Ind Spp** - Four character alpha/numeric field describing indicator species.

**TC - Dbh Cru/Cnt**

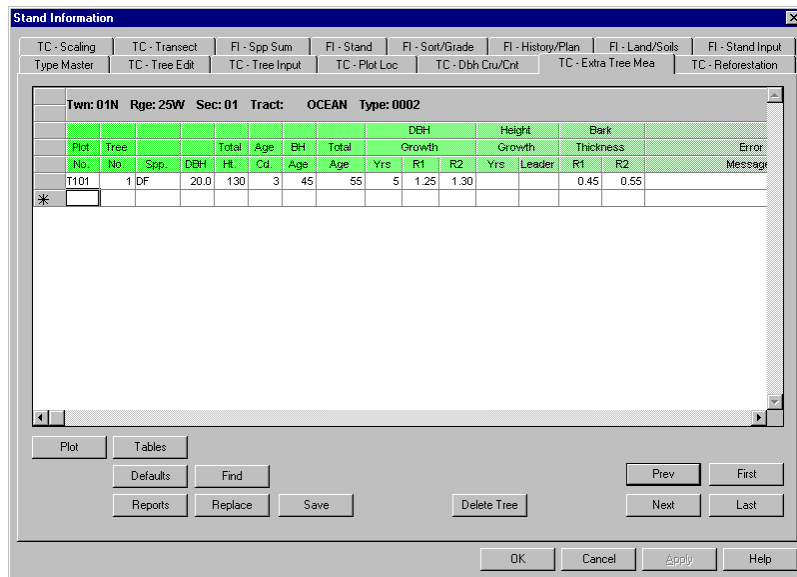
The TC – Dbh Cru/Cnt screen is accessed via the **TC – Dbh Cru/Cnt** tab of the stand information screen. This screen gives a stand table summation based on the cruise data in the selected stand. It can also be accessed in the TC – Tree Input and TC – Tree Edit screens by clicking on the Stand Table button. The diameter class can be adjusted in the “Dia. Class” cell and the diameter class mid-point is defined in the “Round up on” cell. The changes take affect by clicking on the Save button. The other variable cells are not active at this time.

The screenshot shows the 'Stand Information' dialog box with the 'TC - Dbh Cru/Cnt' tab selected. The dialog contains a menu bar with options like 'TC - Scaling', 'TC - Transect', etc. Below the menu bar, there are several input fields and checkboxes for configuring the diameter class and counting method. A table displays the stand data with columns for Species, Age, DBH, Ave, Stand, Cruised, Count, Total, and % Trees. At the bottom, there are buttons for 'Tables', 'Reports', 'Prev', 'Next', 'First', 'Last', 'OK', 'Cancel', 'Apply', and 'Help'.

Spp.	Code	Low	Class	High	Total Ht.	Stand	Cruised	Count	Total	% Trees
DF	1	6.5	7	7.4	50		2		2	100
DF	1	7.5	8	8.4	65		1		1	100
DF	1	8.5	9	9.4	55		2		2	100
DF	1	9.5	10	10.4	62		3		3	100
DF	1	10.5	11	11.4	60		1		1	100
DF	1	11.5	12	12.4	57		2		2	100
DF	1	13.5	14	14.4	70		1		1	100
DF	1	19.5	20	20.4	140		1		1	100
Total	DF	1					13		13	100

**TC - Extra Tree Measurements**

The TC – Extra Tree Measurements screen is accessed by clicking the **TC – Extra Tree Mea** tab of the stand information screen. This screen stores site tree and additional tree measurements. The measurements include species, DBH, total ht., age code, BH age, total age, DBH growth, height growth, and bark thickness.



**Fields**

**Plot No.** – The number of the plot that the tree is on or the nearest plot if the tree measurements were taken on a tree between plots.

**Tree No.** – The tree number assigned to the tree on the plot. This will be blank if tree is an “off plot” tree.

**Spp.** – The species code for the tree as defined in the species table.

**DBH** – Diameter at breast height of the tree.

**Total Ht.** – Total height of the tree.

**Age Cd.** – The age code to be assigned for the age class that the measure tree represents. This is the same code that is entered in the ‘A’ column of the TC-Tree Input screen.

**BH Age** – Breast height age of the tree.

**Total Age** - Total age of the tree.

**DBH Growth Section** (the cruiser has the option of taking two measurements)

**Yrs** – The number of years used to determine the growth increment. For example, enter a 5 for 5 year increment or 10 for 10 year increment.

**R1** – The first growth increment measurement which can be taken to the nearest hundredth of an inch.

**R2** – The second growth increment measurement which can be taken to the nearest hundredth of an inch.

**Height Growth Section**

**Yrs** - The number of years used to determine the leader growth. For example, enter a 5 for 5 year increment or 10 for 10 year increment.

**Leader** – Length of the leader.

**Bark Thickness** (the cruiser has the option of taking two measurements)

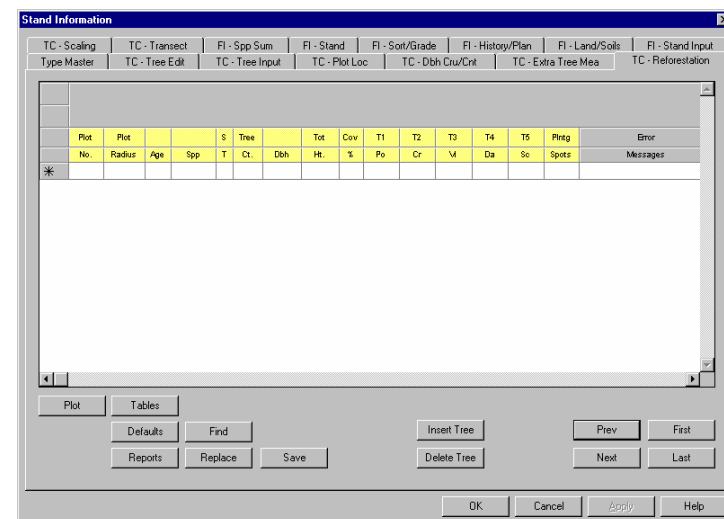
**R1** - The first bark thickness measurement which can be taken to the nearest hundredth of an inch.

**R2** - The second bark thickness measurement which can be taken to the nearest hundredth of an inch.

**Error Messages** – A message will alert the cruiser must be filled in order to complete a measurement. For example, the cruiser will be prompted for total tree height if Spp. and total ht. have been entered in order to have data to determine site index.

**TC - Reforestation**

Under construction.



## TC - Scaling

Under construction.

## TC - Transect

Under construction.

## FI - Spp Sum Screen

FI – Spp Summary Screen is accessed by clicking on the FI – Spp Sum tab on the stand information screen. The table that appears in this screen lists summarized information about the species in the stand. This information includes the species name, the average age, DBH, Site Index, Basal Area per Acre, Trees per Acre, Logs per Acre, Total Height, Gross and Net Cubic Feet per Acre, and Gross and Net Board Feet per Acre.

Spc	S	T	Age	Birth Year	Dbh	Site Index	Norm-ality	BA /Ac Sq. Ft.	Trees /Ac	Logs /Ac	Total Height	Gross CuFt./Ac	Net CuFt./Ac	Gross BdFt./Ac	Net BdFt./Ac	Total NCCF	Total NMFB
WH			36	1963	9.20	110	27	58.7	127.10	133.5	61.1	1,221	1,186	4,555	4,450	106,779.9	40,056.
DF			36	1963	10.87	110	24	35.5	55.18	78.8	65.1	809	809	3,250	3,250	72,811.0	29,258.
DF			36	1963	8.02	110	11	15.8	45.04	46.4	53.5	245	245	1,195	1,195	22,074.4	10,760.
DF			36	1963	9.39	110	5	7.9	16.43	22.8	57.8	111	111	437	437	10,074.1	3,935.
RA			36	1963	13.13	90	3	3.8	4.07	8.2	70.9	98	98	351	351	8,890.1	3,167.
DF			36	1963	10.26	110	2	3.9	6.88	14.2	61.8	76	76	307	307	6,897.8	2,764.
DF			36	1963	12.31	110	2	3.9	4.77	9.8	49.5	79	69	319	213	6,276.2	1,920.
Totals						750	74	129.5	259.50		419.7	2,642	2,597	10,418	10,206	233,800.5	91,861.



## FI - Stand Table

**FI - Stand** is the third tab of the stand information screen and is a detailed view of the stand information. It is similar to the FI - Spp Sum view of the stand data, except that each species is broken down by DBH. It then includes the remaining information of Site Index, Basal Area per Acre, Trees per Acre, Logs per Acre, Height per Tree, Gross and Net Cubic Feet per Acre, and Gross and Net Board Feet per Acre.

SpC	Age	Dbh	Site Index	Trees /Ac	Logs /Ac	BA/Ac Sq. Ft.	Gr CuFt /Ac	Net CuFt /Ac	Gr BdFt /Ac	Net BdFt /Ac	Total NCCF	Total NMFB	
1	DF	36	7.00	110	28.06	28.9	7.9	93	93	626	626	8,446.2	5,641.2
2	DF	36	8.00	110	21.49	22.1	7.9	119	119	719	719	10,777.7	6,478.5
3	DF	36	8.00	110	10.74	11.1	3.9	35	35	119	119	3,233.3	1,079.8
4	DF	36	9.00	110	16.98	17.5	7.9	151	151	568	568	13,625.2	5,118.8
5	DF	36	10.00	110	13.23	13.6	7.9	184	184	591	591	16,567.9	5,319.8
6	DF	36	10.00	110	6.88	14.2	3.9	76	76	307	307	6,897.8	2,764.2
7	DF	36	11.00	110	5.68	11.7	3.9	76	76	317	317	6,840.7	2,855.5
8	DF	36	11.00	110	5.68	5.9	3.9	88	88	253	253	7,980.9	2,284.4
9	DF	36	12.00	110	9.55	24.6	7.9	154	154	586	586	13,891.3	5,278.8
10	DF	36	12.00	110	4.77	9.8	3.9	79	69	319	213	6,276.2	1,920.3
11	DF	36	14.00	110	3.51	7.2	3.9	78	78	274	274	7,038.5	2,468.0
12	DF	36	21.00	110	1.72	5.3	3.9	183	183	625	625	16,554.6	7,428.7
13	RA	36	13.00	90	4.07	8.2	3.8	96	96	351	351	8,890.1	3,167.2
14	vH	36	6.00	110	31.83	32.7	6.5	72	72	353	353	6,497.3	3,180.2
15	vH	36	7.00	110	23.38	24.0	6.5	79	79	519	519	7,160.3	4,672.9
16	vH	36	8.00	110	17.90	18.4	6.5	121	121	397	397	10,964.1	3,577.7
Totals					259.50	313.5	129.1	2,642	2,597	10,418	10,206	233,800.5	91,861.9

SpC	Age	Sort	Grade	Av Log Dbh	Av Log Len	Logs /Ac	Gr CuFt /Ac	Net CuFt /Ac	Gr BdFt /Ac	Net BdFt /Ac	Total NCCF	Total NMFB	
1	DF	36	D	4	5	16	28.9	93	93	626	626	8,446.2	5,641.2
2	DF	36	9	9	5	27	11.1	59	59	359	359	5,388.9	3,239.3
3	DF	36	D	4	5	25	11.1	59	59	359	359	5,388.9	3,239.3
4	DF	36	D	4	6	12	11.1	35	35	119	119	3,233.3	1,079.8
5	DF	36	D	4	5	32	17.5	151	151	568	568	13,625.2	5,118.8
6	DF	36	D	4	5	40	7.1	91	91	307	307	8,277.3	2,764.2
7	DF	36	D	4	5	38	6.6	92	92	283	283	8,290.6	2,555.6
8	DF	36	D	4	6	24	7.1	61	61	230	230	5,518.2	2,073.1
9	DF	36	D	4	5	12	7.1	15	15	76	76	1,379.6	691.0
10	DF	36	D	3	6	32	5.9	76	76	317	317	6,840.7	2,855.5
11	DF	36	D	4	5	40	5.9	88	88	253	253	7,980.9	2,284.4
12	DF	36	D	4	5	8	5.9	0	0	0	0	0.0	0.0
13	DF	36	9	9	5	9	4.9	0	0	0	0	0.0	0.0
14	DF	36	D	3	7	32	4.9	79	69	319	213	6,276.2	1,920.3
15	DF	36	D	3	9	16	4.9	47	47	213	213	4,311.1	1,919.6
16	DF	36	D	4	8	24	4.9	63	63	213	213	5,748.1	1,919.6
Totals							313.9	2,421	2,410	9,975	9,764	216,989.2	87,877.4

## FI - History/Planning Screen

The History/Planning screen is accessed by selecting the **FI-History/Plan** tab on the stand information screen. It allows you to enter history or planning activities associated with individual timber types in a project. Click on the History tab at the bottom of the History/Planning screen to enter information on stand history. Alternatively click on the Plan tab to enter information on planning for the stand.

## FI - Sort/Grade Screen

The Sort/Grade screen is accessed by clicking on the **FI - Sort/Grade** tab of the stand information screen. It is the most detailed view of the stand information. It is similar to both the Species Summary and Stand Table views of the stand data, except that it is broken down further into the individual sort and grade combinations for each species of a given log DIB. It then includes the remaining information of logs per acre, Gross and Net Cubic Feet per Acre, and Gross and Net Board Feet per Acre. The data must have sort/grade information in order for this table to display calculations.

## Fields (same fields occur in the History and Plan screens)

- Activity Date** – Date that the activity occurred (history) or is planned to occur (plan).
- Activity Code** – A two digit code for an activity that is defined by the user in the associated History/Planning Table.
- Acres** – The number of acres to be affected by the activity.
- Cost Per Unit** – Cost for the activity on a per unit basis.
- Units** – Type of units used to determine costs. For example, acre or mbf.
- Plant Trees** – If activity requires tree planting, how many trees per unit to be planted (plan) or were planted (history).
- Remove Trees** – If activity requires tree removal, how many trees per unit to be removed (plan) or were removed (history)
- Harvest** – If unit was harvested (history) or is to be harvested (plan), then the harvest date is entered here.


## FI - Land/Soils Screen

The Land/Soils screen is accessed by selecting the **FI - Land/Soils** tab of the stand information screen. It allows you to enter landform, soils, road construction, tax, seed zone, habitat, harvest system, stream class, and environmental information that needs to be associated with the stand. Most of the fields in this screen are associated to a user defined table. When the drop down window is opened in one of the fields the codes stored in the associated table are displayed for the user to choose.

The other fields in the screen are not associated to a table and store the following variables.

- Elev.** – A five digit field for inputting the average elevation of the stand.
- Habitat** – A four digit alpha/numeric code describing the general habitat of the stand.
- Construction Stations** – The number of stations necessary for road construction.
- Harvest System**
  - Percent** – Percent of total stand acres operable by a given harvest system.
  - Diff** – The percent of difficulty to harvest the stand under a given harvest system.
- Soil Class: Acres** – The number of acres in the stand assigned to a certain soil class.
- Landform Class: Acres** – The number of acres in the stand assigned to a certain landform class.

## FI - Stand Input Screen

The FI - Stand Input screen is accessed by clicking the  button located on the opening screen tool bar after the desired stand has been selected. It can also be accessed by clicking on the **Stand Input** tab of the stand information screen. It is the screen where new stand data is entered. It includes Species, Status, Age, Birth Year, Site Index, Normality, Basal Area per Acre, Trees per Acre, DBH, Logs per Acre, Gross and Net Cubic Feet per Acre, and Gross and Net Board Feet per Acre. The attributes shaded in green (Spc, Age, site index, and Trees/AC) are the minimum stand attributes which must be entered in order to calculate a stand yield. This

screen is automatically filled when FLIPS is updated with cruise data from SuperACE. You can also create a new stand by clicking the new stand button.

**Stand Information**

Type Master | TC - Tree Edit | TC - Tree Input | TC - Plot Loc | TC - Dbh Cru/Cnt | TC - Extra Tree Mea | TC - Reforestation  
 TC - Scaling | TC - Transect | FI - Spp Sum | FI - Stand | FI - Sort/Grade | FI - History/Plan | FI - Land/Soils | FI - Stand Input

Twn: 01N Rge: 25W Sec: 01 Type: 0002 Acres: 9000 Examine Month: 6 Year: 1998

Original

	Spc	Status	Age	Birth Year	Site Index	Normality	Basal Area	Trees /Ac	Dbh	Logs /Ac	Gr CuFt /Ac	Nt CuFt /Ac	Gr BdFt /Ac	Nt BdFt /Ac	
1	DF		35	1963	110	3	3,750	4,775	12.0	9,549	71	62	286	190	
2	DF		35	1963	110	25	33,750	55,177	11.0	76,446	725	725	2,911	2,911	
3	DF		35	1963	110	3	3,750	6,875	10.0	13,751	68	68	275	275	
4	DF		35	1963	110	6	7,500	16,425	9.0	22,107	100	100	391	391	
5	DF		35	1963	110	11	15,000	45,040	8.0	45,040	220	220	1,070	1,070	
6	P.A.		35	1963	90	3	3,750	4,068	13.0	8,437	93	93	325	325	
							79	124,000	259,500		304,900	2,161	2,152	8,965	8,775

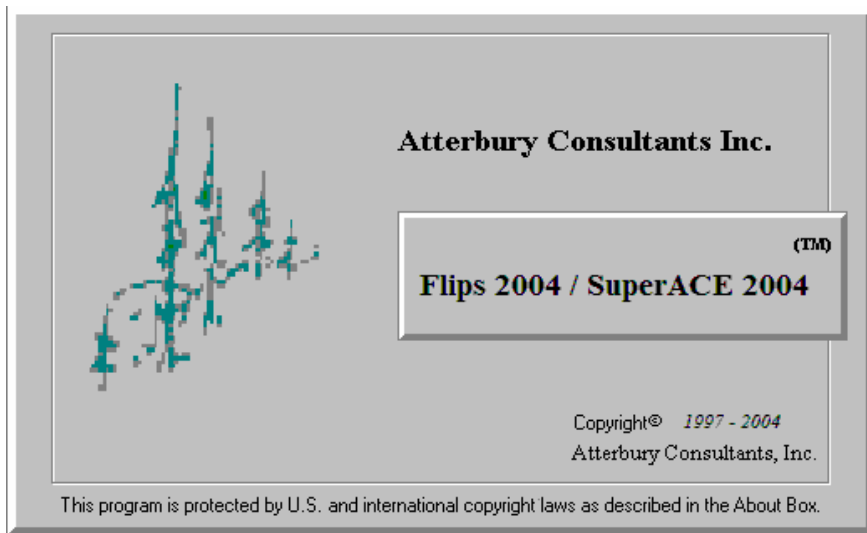
Updated

	Spc	Status	Age	Birth Year	Site Index	Normality	Basal Area	Trees /Ac	Dbh	Logs /Ac	Gr CuFt /Ac	Nt CuFt /Ac	Gr BdFt /Ac	Nt BdFt /Ac	
1	DF		36	1963	110	2	3,949	4,775	12.0	9,841	79	69	319	213	
2	DF		36	1963	110	24	35,542	55,177	11.0	78,777	809	809	3,250	3,250	
3	DF		36	1963	110	2	3,949	6,875	10.0	14,170	76	76	307	307	
4	DF		36	1963	110	5	7,898	16,425	9.0	22,782	111	111	437	437	
5	DF		36	1963	110	11	15,796	45,040	8.0	46,413	245	245	1,195	1,195	
6	P.A.		36	1963	90	3	3,974	4,068	13.0	9,748	96	96	351	351	
							74	129,500	259,500		313,700	2,642	2,597	10,418	10,206

Add Yield Table Data | New Stand | First | Prev | Next | Last

OK | Cancel | Apply | Help

# Using the **FLIPS 2004/SuperACE 2004™** Dialog Screens



## **Atterbury Consultants, Inc.**

3800 Cedar Hills Blvd., #120  
Beaverton, Oregon 97005  
Phone: (503) 646-5393  
Fax: (503) 644-1683  
<http://www.atterbury.com>  
e-mail: [tburke@atterbury.com](mailto:tburke@atterbury.com)