

## Tuna Assist System Setting up a Catch Tow Intake

### **Step 1 Creating Tow Fish Ids**

Open up the Fish Id Screen

**Growout / Tow Fish Id**

Details | Extra Info

Growout / Tow Fish Id  Current Cage Id

Came from Tow Fish Id  ? Came from Year Class

Create Date  21/12/2004 Current Net No

Year Class  ?

Morts  0 Adjustments  0

Transfers Out  0 Transfers In  0

Catch / Tow Count  0 Current Fish No  0

Feed Total (kg)  0.00 Catch / Tow Biomass kg  0.00

Status (blank is Active)  (None) Date Status Changed  21/12/2004

**Start of Season Information**

Start Weight (kg) (blank is 0)  Start Fish Count  0

**Harvest Information**

Harvest Count  0

Total Whole Weight kg  0.00 Avg Whole Weight kg  0.00

Archive  No

Fish to Cage Assignments Cage to Mooring Transfers Catch / Tow Details

Health Assessment Fish Count Adjustments

<|> < > <> Save Find Delete Reset Print Recalc Cancel Help Import

### **Growout / Tow Fish Id Field**

Growout / Tow Fish Id field refers to a Batch identifier that allows you to quickly identify the origin, the type and sequence of the intake of fish.

Ie good fish ids naming convention YEAR, TYPE, BATCH NO or Cage No.

For example 05G01 represents 05 year intake, G means that this is a growout fish id (meaning that these fish came from a Catch Tow) and 01 represents the first transfer of fish out of that Catch Tow, or can represent the Cage Id.

Its good to use 2 types of Fish Ids one being the Growout types and the other being the Catch Tow intake types, this practice ensures the difference between what happens before they are put into grow out cages on the farm.

There fore 05T61 represents 05 year intake, T represents that this is Tow Fish Id and 61 represents some kind of Government Allocation number.

### **Came from Tow Fish Id**

The came from Tow Id is only filled out for your Grow out fish ids. If you have many different Tow Ids then use the one with the most fish transferred to this Grow out fish id.

### **Create Date Field**

Its important to under the create date and using the correct one for different fish ids they are:

Tow Fish Id Create date should always be the date of the first capture of fish.

Growout Fish Id Create date should always be the first transfer date of the fish being transferred from the tow intake into the growout cage.

### **Year Class Field**

This is used to group the different Fish Ids that you have in the system for example for

Tow Fish Ids you should represent them as TUNA INTAKE YEAR

Where the Year is the capture year ie 2005.

Growout Fish Ids should be represented as TUNA STOCK or GROWOUT YEAR

When creating these records you must choose the Item Type FISH STOCK in order to see these records in the list.

### **Status Field**

Status field allows you to control the reporting of these fish ids and is defaulted to Active when you create a new fish id. If the fish id is only temporary and the fish count is 0 then you should make the fish id inactive. The Year Class roll over wizard will automatically assign any fish id in the system for that season to inactive if it has a 0 fish count.

### **Start Weight Field**

For Tow fish Ids please make the start weight as 0 for the Growout fish ids you can enter an average weight for the cage at the start of the season or if you leave it

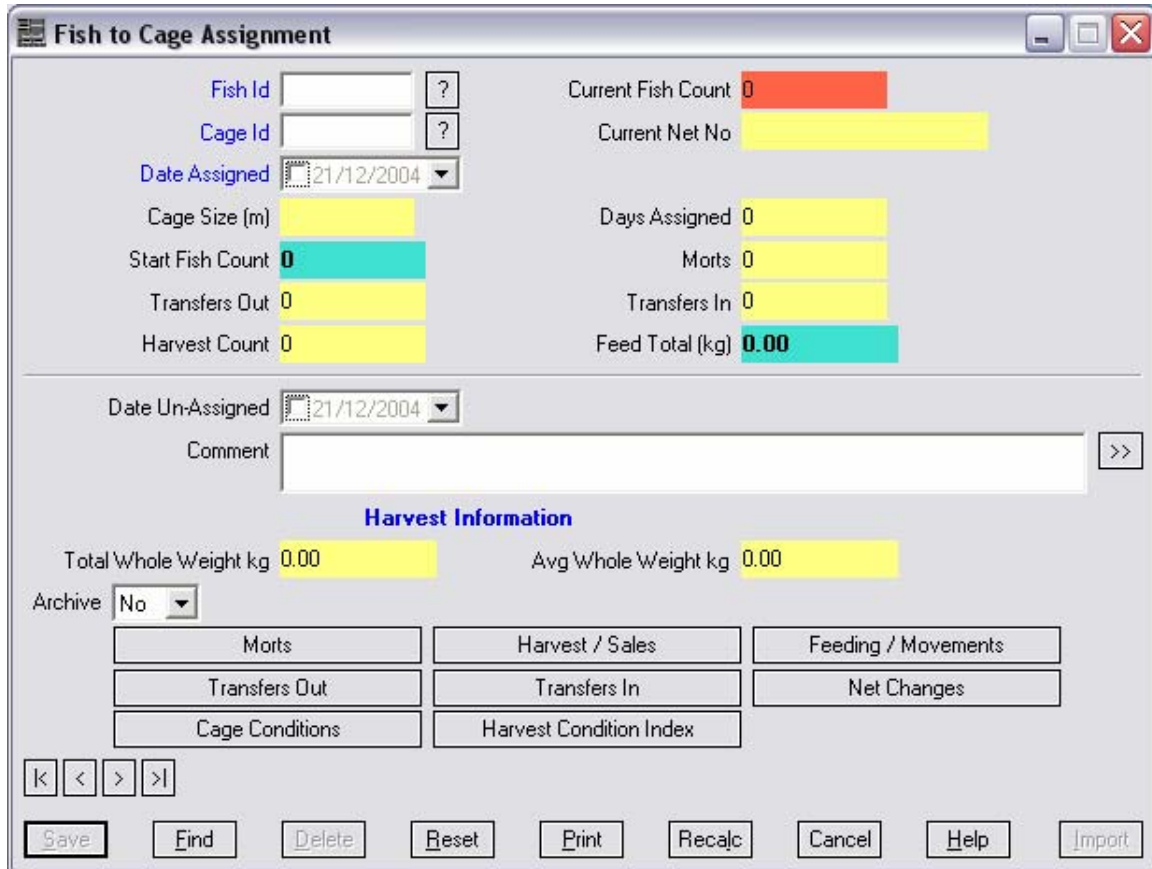
blank then the Summary Farm report will automatically update this from the Catch / Tow intake data.

## Step 2 Assign the Fish Ids to Cages

Assign the Fish Id to a Cage

On the Growout / Tow Fish Id Screen

Click on the Fish to Cage Assignment Button and select add.



The 'Fish to Cage Assignment' window is a software interface for managing fish assignments. It features a title bar with standard window controls. The main area is divided into several sections. At the top, there are input fields for 'Fish Id' and 'Cage Id', each with a help icon (?). Below these is a 'Date Assigned' dropdown menu set to '21/12/2004'. To the right, there are read-only fields for 'Current Fish Count' (0), 'Current Net No' (yellow), 'Days Assigned' (0), 'Morts' (0), 'Transfers In' (0), and 'Feed Total (kg)' (0.00). Below the date field, there are input fields for 'Cage Size (m)' (yellow), 'Start Fish Count' (0), 'Transfers Out' (0), and 'Harvest Count' (0). Further down is a 'Date Un-Assigned' dropdown menu set to '21/12/2004' and a 'Comment' text box with a '>>' button. A section titled 'Harvest Information' contains 'Total Whole Weight kg' (0.00) and 'Avg Whole Weight kg' (0.00). Below this is an 'Archive' dropdown menu set to 'No'. At the bottom, there is a grid of buttons: 'Morts', 'Harvest / Sales', 'Feeding / Movements', 'Transfers Out', 'Transfers In', 'Net Changes', 'Cage Conditions', and 'Harvest Condition Index'. Navigation buttons '<K', '<', '>', and '>I' are located above the bottom row of buttons. The bottom row itself contains 'Save', 'Find', 'Delete', 'Reset', 'Print', 'Recalc', 'Cancel', 'Help', and 'Import' buttons.

Simply select a Cage Id record to assign this fish id to and choose a date for based either a date of first capture for a Tow fish id or date of first transfer for a Grow out fish id.

## Step 3 Create the Catch Tow Details Record

Catch Tow Details Screen

From the Growout / Tow Fish Id Screen click on the Catch / Tow Details button and select Add

**Catch / Tow Details**

Details | Capture Area / Tow Information

Tow Fish Id  ? Year Class

Current Cage Id  AFMA Tow No

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Catcher Vessel  ? Tow Vessel  ?

SBT03 Log Book No  SBT03 Log Book No

TPB03 Log Book No  Tow Cage Id  ?

Estimated Biomass (kg)

Start Tow Date  02/02/2005

Date Tow Ended  02/02/2005

Date First Transfer  02/02/2005

Date Last Transfer  02/02/2005

Catch Morts

Tow Morts

Transfer Morts

Total Intake Biomass (kg)

Total Fish Transferred into Cages  Avg Weight kg 0.00

Video Reference

Tape Checked By Staff  ?

Tape Checked By Contractor  ?

Total Morts 0

**Tag Weight Details**

Total Tag Fish No  Tag Avg Weight (kg) 0.00 Total Tag Biomass (kg) 0.00

**Quota Catch Details Includes Morts**

Total Quota Fish No 0 Quota Avg Weight (kg) 0.00 Total Quota Biomass (kg) 0.00

Archive  No

Catch / Tow Tagging Forecast Capture Areas

Tow Morts

k < > >|

Save Find Delete Reset Print Refresh Cancel Help Import

This screen is where you record all the details for that tow intake and importantly the starting number of fish and average weight for the season intake.

***Very important this does not show the fish being transferred you must create Growout fish ids records and fish to cage transfer records before you can transfer fish from this screen***

**Catch Tow Tagging Screen**

**Catch / Tow Tagging**

Details | Mort Capture Details | Harvest Capture Details

Fish Id  ? Start Date

Tow No  Catch Tag Id

Start Tag Weight (kg)

Start Length (cm)

From Cage Id  ?

End Length (cm)

End Tag Weight (kg)

Start Condition Index **0.00**

End Date

End Condition Index **0.00**

Archive

Harvest Detail Item:

Customer Name	Order No	Order Date	Order Item

(0)

Mort Cages:

Dive Date	Dive Time	Vessel Name	Fish Id	Cage Id

(0)

This screen is used to record the individual sampled fish for weight and length measurements

### Tow Mort Screen

**Tow Morts**

Fish Id  ?

Tow No

Mort Date

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GPS Datum  Nautical Miles to Port

or Latitude

or Longitude

Fish On Surface  Fish On Bottom

Fish In Mesh  Mort Total **0**

Comments  >>

**Observations**

Scale Loss <input type="text" value="(-)"/>	Tow Damage <input type="text" value="(-)"/>
Meshed <input type="text" value="(-)"/>	Eye Damaged <input type="text" value="(-)"/>
Seal Attack <input type="text" value="(-)"/>	Gaffed Out <input type="text" value="(-)"/>
Unknown <input type="text" value="(-)"/>	Swimmer <input type="text" value="(-)"/>
Copepods <input type="text" value="(-)"/>	

[K] [ < ] [ > ] [ >| ]

This screen is used to capture any dead fish that were retrieved from the cages while on tow back to base.

### Capture Area Screen

This is used to record info on where the fish were captured

#### Step 4 Create Grow Out Fish Ids Records

Create your Grow out Fish Id records by using the Grow out / Tow Fish Id Screen and this time use information that relates to the grow out such as date of first transfer as the create date, Year Class of TUNA GROW OUT YEAR . Refer to Step 1 on creating Grow Out fish Ids.

#### Step 5 Assign Grow Out Fish Ids to Cages

Create you Fish to Cage Assignment records for your Grow out Fish Ids as per Step 2 and ensure the date is for the first transfer date.

#### Step 6 Transfer fish from your Tow Fish Id to your Grow Out Fish Ids

Click on the Cage to Cage Transfers Screen from the Fish transfers Menu Button

This screen allows for several types of transfers to be performed they are:

Tow Cage to Grow out Cage normally done at the start of the season.

Tow Cage to Tow Cage also done at the start of the season but is used only for moving fish from 1 tow cage to another and does not affect any starting fish counts or starting weight of a grow out cage.

Grow out to Grow out Cage can be done at any time during the season and only affects the fish count from the transfer date.

**Choose the Tow Cage to Grow Out Cage transfer type for this procedure and enter the number of fish to transfer. You will then see the fish counts go up and down on the from and to and on the Grow Out / Tow Fish Id screen you will also see the Starting Fish Count for your Grow out Fish Id.**

#### **Step 7 Assign the Grow Out Fish Id to a Mooring**

The final step is to assign the Fish Id / Cage Id to a Mooring so they can be feed.

Select the Cage to Mooring Screen from the Fish transfer Menu Button



**Cage to Mooring Transfer**

Details | Extra Info

Fish Id  ? Fish Count **0** Status

Date Moved  Current Net No

Cage Id  Cage Size (m)

Date Assigned

Person Responsible  ?

Moving from Cage Position  ?

Moving from Site Name

Moving to Cage Position  ?

Moving to Site Name

Feed Total (kg) **0.00**

Archive

Select your Grow out Fish Id and make the date assigned to the last transfer date.

The moving from mooring id and moving to mooring id can be the same if you have positioned your tow cage id along side the grow out cage, else the moving from mooring id could be a dock and the transfer is from there and then the cage is towed out to the mooring.