

# **Gillnet and Trammel Net Gear Description**

## **Instructions**

Last modification: February 9, 2009

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## Introduction

In February 2009 the Gillnet and Trammel Net Gear Description Form was created to collect information on the characteristics of gillnet and trammel net fishing vessels operating in artisanal fisheries.

### ***INSTRUCTIONS FOR THE COLLECTION OF DATA***

Data is collected through direct measurements and by marking the best choice among the options presented. All measurements should be taken or converted to the units indicated on the form. Measurements expressed in inches are frequently obtained in fractions. These should be recorded to the nearest hundredth (*E.g.*  $7/16'' = 0.44$ ). The hanging ratio should also be recorded to the nearest hundredth.

### ***Fields of the form***

#### **Vessel information**

**Vessel name** The name of the vessel.

**Registration** The official registration number used to identify the vessel.

**Date** The date that the information was collected.

**Location** The name of the port where the information was collected.

**Recorded by** The name of the person who collects the information.

#### **Net information**

##### **Type**

This is the basic type of net used by the vessel. Select the best choice:

**Gillnet** The gear is composed of a single net layer between the float line and lead line.

**Trammel net** The gear is composed of 2-3 net layers between the float line and lead line.

**NOTE:** Complete two forms for trammel nets; one for the interior layer and another for the exterior layer, even if the exterior layer is composed of 1 or 2 net layers.

##### **Vertical location**

This is the location of the gear in the water column. Select the best choice:

**Surface** The gear operates while floating on the surface.

**Mid-water** The gear operates while suspended in the water column.

**Bottom** The gear operates at the bottom of the water column.

##### **Setting mode**

This describes the method used to set the gear. Select the best choice:

**Drifting** The gear floats adrift.

**Anchored** The gear is anchored to the sea bottom.

**Staked** The gear is tied to a pole which is driven into the ground or sea bottom.

**Sweeping** A vessel tows the gear from one end in a circular motion in order to encircle and entangle the catch.

### **Net operation**

It's the way how the gear is handled. Select the best choice:

**Manual** The gear is set and/or retrieved by human power only.

**Mechanical** The gear is set and/or retrieved by with a motor or similar system without the use of human power.

### **Dimensions for each panel**

For each panel of the layer, collect:

**Length:** Record in meters or fathoms the total length of the panel (before hanging).

**Length after hanging:** Record in meters or fathoms the length of the panel after hanging.

**Hanging ratio (Float and lead line):** The hanging ratio is the relation between the length of the net after hanging divided by the original length of the net. Record the hanging ratio for both the float line and the lead line.

**Height:** Record the height of the panel in meters or in number of meshes.

**Tie down line:** If the gear employs a tie down line, mark "Yes" and enter its height in meters. Otherwise mark "No" with a check mark.

### **No. of panels fished**

Record the number of panels used for fishing.

### **Net configuration**

Select the best choice:

- [ — ]: The gear operates in an straight line.
- [ ) ]: The gear operates in a curved line.
- [ ○ ]: The gear operates in a ring-shaped line.
- [ ▢ ]: The gear operates in a semi-rectangular line.
- [ N ]: The gear operates in a zigzag line.
- [ ^ ]: The gear operates in an inverted V line.

### **Total surface net**

Record the overall length and height of the gear in meters. The total length should be based on the number of panels most often used in the set.

### **Mesh**

**Size:** Record the predominant size of the mesh in centimeters or inches.

**Diameter:** Record the predominant diameter of the mesh twine in millimeters or inches.

**Color:** Record the predominant color of the mesh.

**Twine material:** Record the material of the twine which is used to form the net mesh.

**No.:** Record the predominant twine size number of the twine used to form the net mesh .

**Denier:** This is a unit of measure for the linear mass density of a continuous filament of the twine. It is expressed as the weight in grams of nine kilometers (9000 meters) length of the material. Record the denier number present in the twine.

**No. meshes in bridges:** Record the number of meshes in the bridge. See the “Gillnet” graphic for more information.

### **Float line**

**Material:** Record the material used in the fabrication of the float line.

**Code No.:** Record the code number of the float line.

**Diameter:** Record the diameter of the float line in millimeters or inches.

**Color:** Record the predominant color of the float line.

**Bridge length:** Record the predominant bridge length of the float line in meters. See the “Gillnet” graphic for more information.

**Ropes in line:** If the float line is composed of only 1 line (rope), select ‘1’. If it’s composed of 2 or more lines, select ‘2’.

### **Floats**

**Total No.:** Record the total number of floats present in the gear.

**Material:** Record the material with which the floats are fabricated.

**Length:** Record the predominant length of the floats in centimeters.

**Height:** Record the predominant height of the floats in centimeters.

**Color:** Record the predominant color of the floats.

**Shape:** Record the predominant shape of the floats.

**Distance between floats:** Record the predominant distance between floats in meters.

### **Lead line**

**Material:** Record the material used in the fabrication of the lead line.

**Code No.:** Record the code number of the lead line.

**Diameter:** Record the diameter of the lead line in millimeters or inches.

**Color:** Record the predominant color of the lead line.

**Weight:** Estimate the weight of the lead line in kilograms per meter of lead line.

**Unit weight:** Record the weight of an individual unit of the lead line as the weight of a single link in grams, or the number of individual units per kilogram of weight.

**Distance between weights:** Record the predominant distance, in meters, between the weights of the lead line.

**Ropes in line:** If the lead line is composed of only 1 line strand, select ‘1’. If the lead line is composed of 2 or more strands, select ‘2’.

### **Fishing characteristics**

**Main fishing ground:** Record the location name or the nearest port name of the location where the vessel most frequently operates.

**Most common fishing depth:** Estimate the depth of the location where the vessel most frequently operates, in meters.

**Most common fishing period:** Record the most common start and finish time of the set in hours and minutes, using the 24 hour time (military time).

**Tide during set:** Record the predominant state of the tide (high or low) when the set occurs.

**Beach slope:** Estimate in degrees the slope of the continental shelf where the vessel operates.

**Bait in net:** If some type of bait is used to draw the target species into the net, select 'Yes', Otherwise, select 'No'.

**Drive-in net:** If some action was conducted to drive the target species into the net, select 'Yes', Otherwise, select 'No'.

**Net patrolled:** If the net is checked for fish capture, gear condition, etc. between the start and the end of the set, select 'Yes', Otherwise, select 'No'.

**Angle net-coast:** Select the best choice:

**Parallel** The gear is deployed parallel to the shoreline.

**Perpendicular** The gear is deployed perpendicular to the shoreline.

**45 degrees** The gear maintains a 45 degree inclination to the shoreline.

### **Catch information**

List the target species of the fishing gear sorted by order of importance. Record the species with either the scientific name or common name.

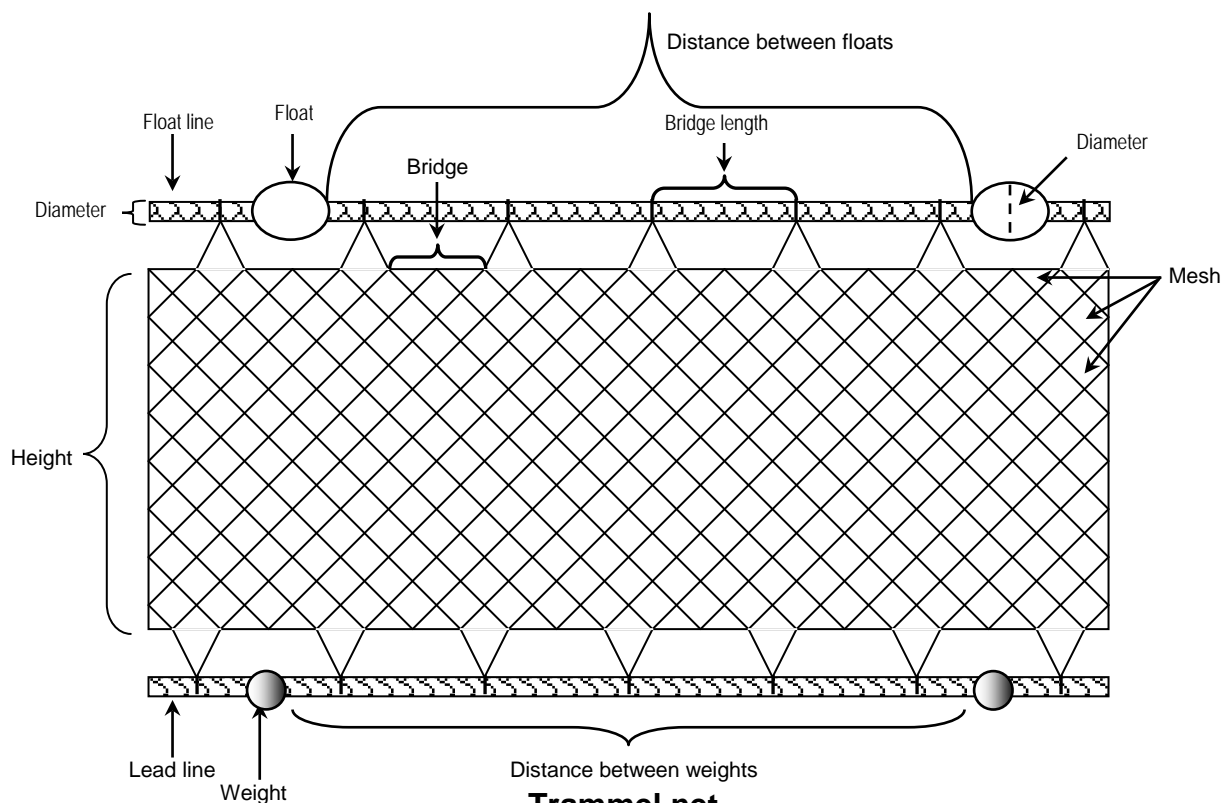
### **Predation on catch by:**

List the species predating on the target species of this fishing gear by order of importance. Record the species with either the scientific name or common name. Also record whether the predator is typically entangled in the net.

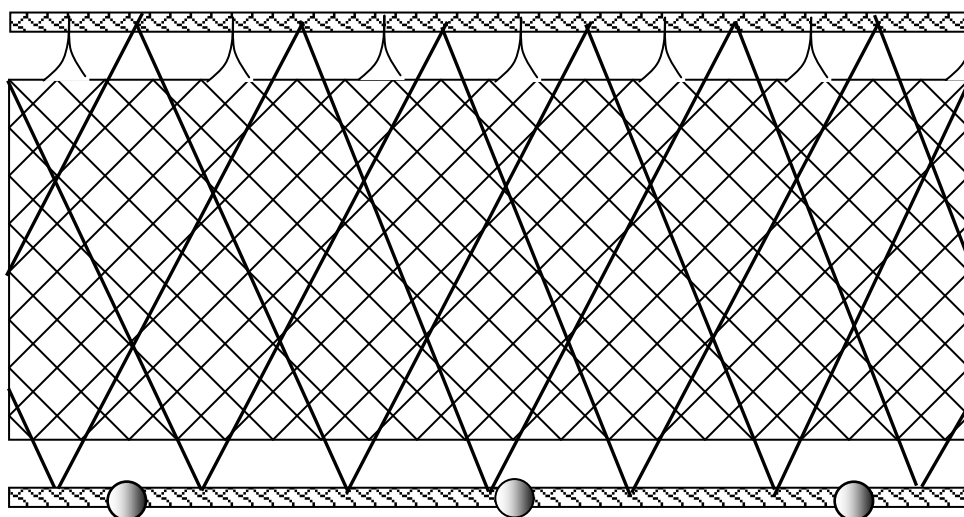
### **Comments**

Record any additional information related to this fishing gear.

## Gillnet



## Trammel net



## Hanging ratio

