



This Diagram and all accompanying information is the property of Innovative Net Systems. It is sent to you in good faith and is for use within YOUR agency.

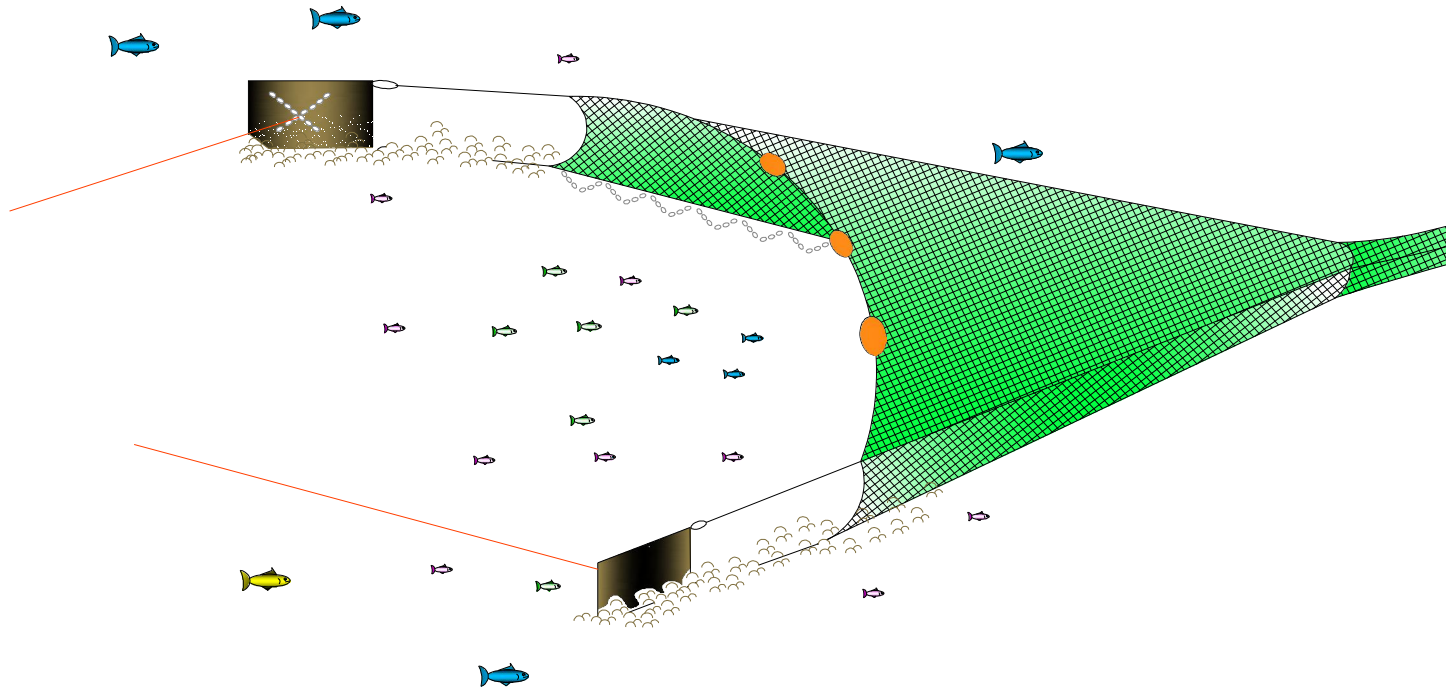
It is *NOT* to be copied, distributed or used for any quotes, bids or fabrication involving ANY other net shop, netting company or marine suppliers. This includes, but is *NOT* limited to any state or federal agency that teaches, instructs or builds fishery gear.

We strictly enforce this policy. We ask that you show professional courtesy in handling our intellectual work. If there is a question about WHO can view this or WHO you can share this with, then you can simply stop and email us at: net-maker@cox.net and ask.

INS has survived hurricanes, floods and personal health issues that we hope you never experience. We do NOT intend to lose any business to those persons who do not have our skill or technical savvy in extreme net design and fabrication.

The **SUPPRESSOR TRAWL**

Brought to you by Innovative Net Systems, a leader in Fishery Research Gear



It's a dark and quiet world down there some background noise from current and tide, but basically it's a sensory deprived environment.....

....UNLESS YOU ARE EQUIPPED WITH LATERAL LINES and RECEPTORS!

The sea bed or river bottom is a world that man explores with bright lights, noisy gear, cumbersome trawl nets and obtrusive drags and dredges. Most animals in this environment get out of the way if they can. Lateral lines and receptors help fish and other organisms survive down there. Lateral lines serve two purposes. They lead a fish *to food* and they keep a fish from *becoming food*. This same defense mechanism also helps them in gear avoidance.

Innovative Net Systems has spent years studying these environs, both fresh and saltwater. What we stumbled upon is known as the **Theory of Acoustical Signature**. Basically, all known sampling gear makes noise or vibration. Some gears are louder than others and some scarier than others....but all make noise underwater.

This noise or vibration has a varied effect on fish and their trigger mechanisms for flight. We refer to it as *hitting the panic button*. Innovative Net Systems has designed a new gear to accentuate the use of this instinct to improve catch rates of hard to find YOY fish.

Welcome to the next generation of YOY sampling gear:

The SUPPRESSOR TRAWL



Figure 1

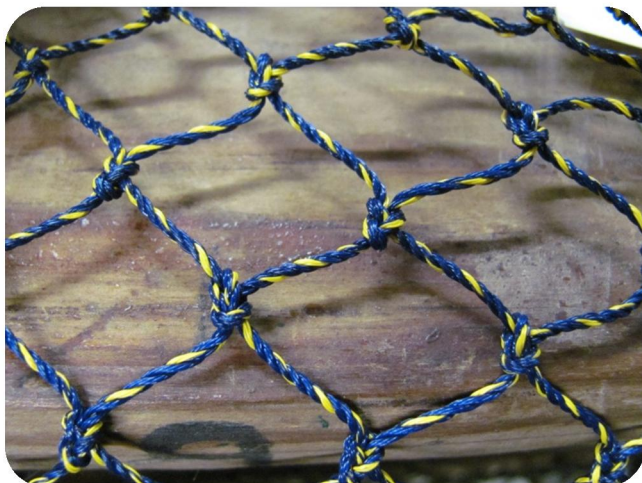


Figure 2

Approximately 80% of all Research and Sampling trawls are made with knotted netting. Some are made with **braided twine**¹ and others with **twisted twine**².

The rest are made with an assortment of nettings very close to the raschel (woven) nettings shown here:

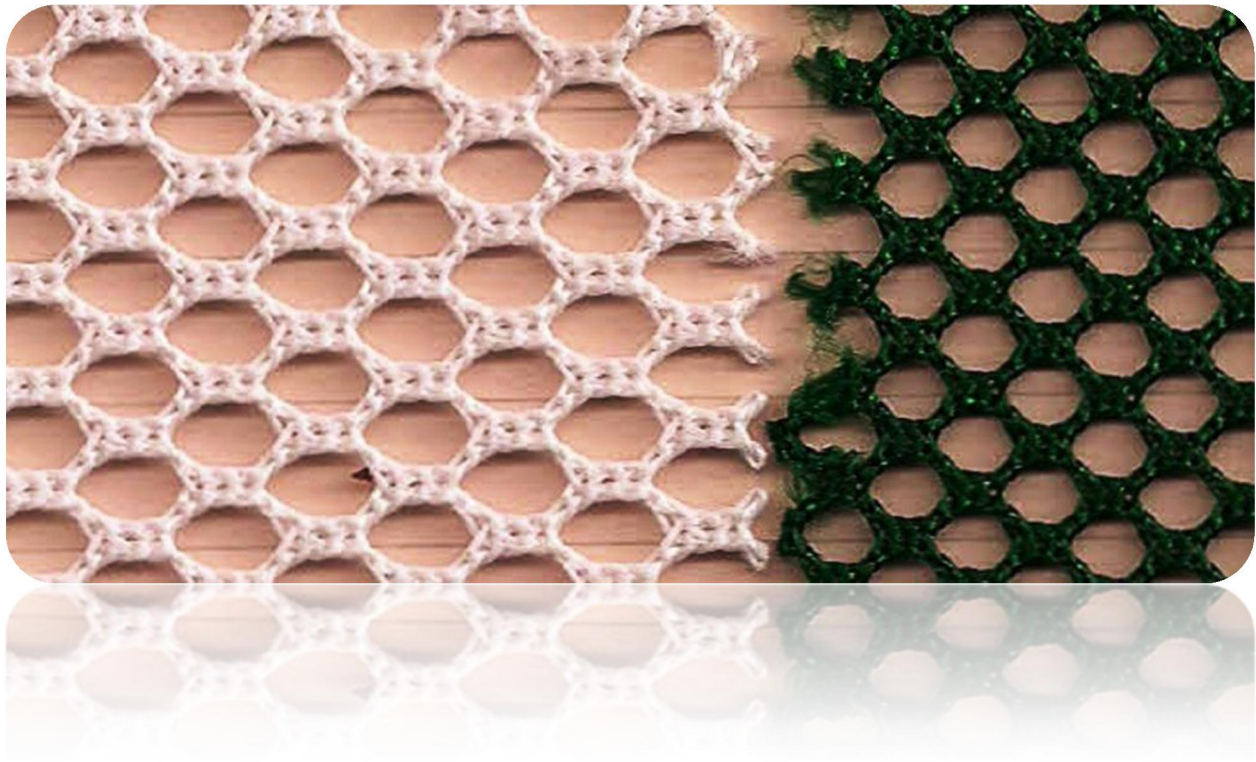


Figure 3 Rachel netting

Innovative Net Systems uses all of the above nettings and more. Any knotted or even woven netting produces *micro-turbulence* at each raised knot or along each woven crossover. We acknowledge that there is no way to escape producing these *micro-turbulences* in the water. It's a compromise between functionality and form.... It's just going to happen.

What we have attempted to do is control where and how much noise is produced. We chose a specific point in the gear where the fish are most affected. Similar to what ballistics experts tell you about a suppressor on a rifle, in that a suppressor does *not quiet the sound* *it changes the sound*.

Our **Suppressor Trawls** work much the same way..... We are *attempting* to fool the spookiest of fishes in the YOY class by changing the hydro-acoustical signature of the gear itself. NOTHING in the Fishery Research business is 100%, this included. Everything in net design is a compromise and this gear is no exception. However, it is designed to give you an edge on taking samples of YOY that conventional gear either spook or simply pass right over.

Our unique combination of netting, mesh sizes, design and gripp coefficients all produce a drafting effect that forces fish down into the net. Our *accelerator* section increases water flow into and through the entire net, decreasing escapement. It is not perfect, but it is functional in its design.

Simply put, the **Suppressor Trawl** is designed to be a quieter and faster towing gear than most nets on the market. It has enough options to make it useable in both fresh and saltwater situations. The low acoustic signature we strive for, assists you on getting on top of specimens that you might be missing. The intent of designing this gear is NOT to catch more YOY fish, but rather, to sample YOY fish that you have NOT been able to catch enough of. It is an add-on gear to compliment your **qualitative and quantitative** sampling protocol.

OPTIONS:

Micron Bucket Separator: A sealed unit placed behind the cod end. It allows the net to capture both large (10cm> and small animals down to 500µ)

Aquarium Tube: A 8" dia. X 30" pvc unit w/ fyke and baffles that holds "live fish" specimens 1cm through 10cm...approx..

Mud Raisins: Specialized super hard mini-roller that keep most mud and shell out of the net. Excellent for zebra mussels and soft sediment.

Padded foot rope: This a chain wrapped in heavy webbing. It forms a padded foot rope that slides over the bottom. It forces fish up without gouging and digging.

Trash Grate: A PVC unit with a removable hard grate that stops 70% of all detritus from entering the cod end. The grate is easily removed and cleaned.

Fish Separator: This is a dual mesh cod end that traps larger fish in the front bag and smaller (10cm >1cm) fish in the rear. [STANDARD INCLUDED EQUIPMENT]

Basic models

8' net Model ST - 8

- 20x12 Sled Doors
- 2-100' towlines
- 19mm on the sq. mesh traversing to 6 mm liner (cod end)
- Chain foot rope
- Dual Fish Separator in cod end .5cm > 5.00 cm in one cod end..... 5.50cm through .75 Meter size fish in the other cod end.

Call for pricing.....see our E-Catalog

10' net Model ST -10

- 24x12 Sled Doors
- 2-100' towlines
- 19mm on the sq. mesh traversing to 6 mm liner (cod end)
- Chain foot rope
- Dual Fish Separator in cod end .5cm > 5.00 cm in one cod end..... 5.50cm through .75 Meter size fish in the other cod end.

Call for pricing ... or see our E-Catalog

*Towing strain on the hull and engine is considerably less than the Herzog Armadillo Trawl (aka: Mini- Missouri Trawl) and slightly less than the Siamese trawl.

** Both the Herzog Armadillo Trawl (aka: Mini- Missouri Trawl) and Siamese trawl remain Top End gear for sampling. The Suppressor trawl is just the next generation.

Innovative Net Systems * PO Box 255* Milton, Louisiana * 70558 * www.fishtrawls.com *
Ph. 337-856-1948 or net-maker@cox.net

All nets made in our shop: **Milton, Louisiana USA.**

" We may be slow, but we get it right!"