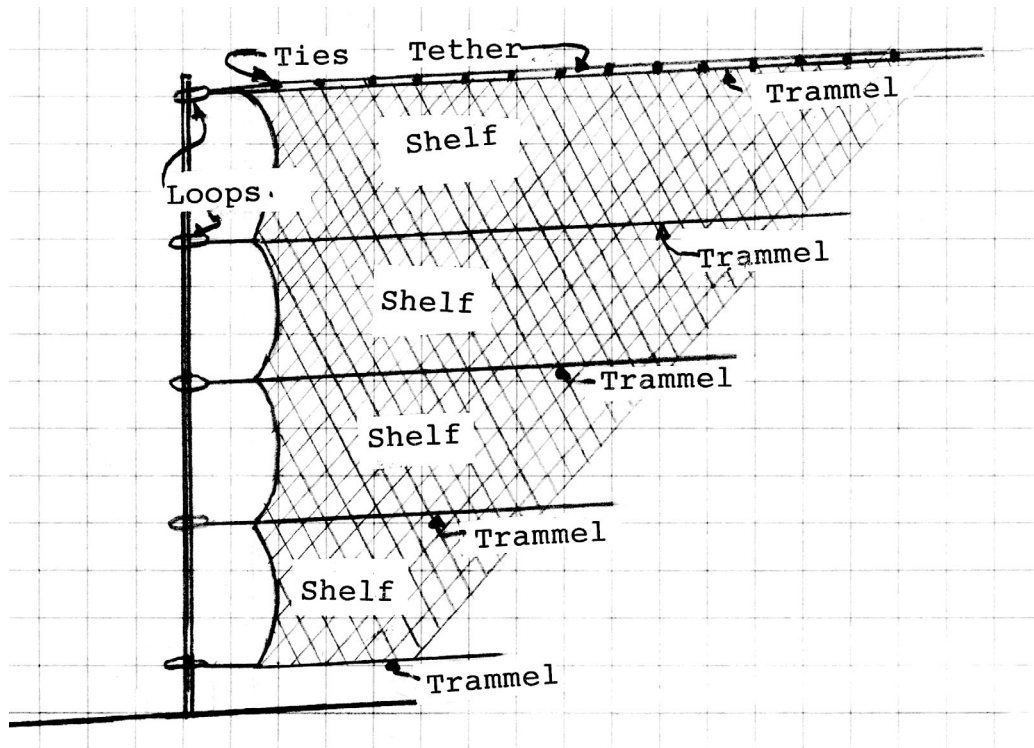




# **AFO BANDING SUPPLIES**

*Spring 2005*

# Mist Nets... Some Definitions

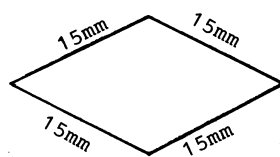


**Tether** .....The line along the top of the net to which the top trammel is tied at intervals along its length. This helps to prevent the netting from bunching towards either end of the net.

**Trammel** .....The heavy cording at the boundaries of the shelves and attached to the loops at either end.

**Shelf** .....The space between trammels which are “baggy” and are used to gather birds.

**Mesh**.....The designation of the size of the opening in a given net and defined as one-half of the perimeter of one of the diamond shapes of the net, as shown below. This distance can best be measured by stretching a diamond tightly and determining the length at the long end of the diamond.



Mesh= 30mm

**Denier**.....The term used in the textile industry to denote the fineness of a given yarn, defined as the weight in grams of 9,000 meters of the yarn. Thus, yarn with a denier of 70 weighs 70 grams per 9,000 meters. The lower the denier, the lighter the yarn and the more fragile, but the less visible to a bird.

**Ply** .....The number of strands of yarn used in a twisted strand of netting. The denier description of any given net refers to the denier of each individual strand of yarn.

## Description of AFO Nets

Most banding nets are specified by mesh size. The lower the mesh size, the smaller the mesh. Although there is no universally accepted mesh size, the table below provides a general description of the most commonly used nets for targeted species.

<b>Mesh Size</b>	<b>Used for these birds</b>
24mm (1")	Used for very small birds such as hummingbirds, kinglets, bushtits, marsh hens, and small warblers
30mm (1¼")	Used for birds such as wrens, creepers, nuthatches, and wood warblers in general.
36mm (1½")	Used for birds with band sizes greater than No.1, such as small shorebirds, most passerines, tanagers, small thrushes, flycatchers and other small birds.
61mm (2¾")	Used for medium size shorebirds, towhees, blackbirds, jays, thrashers, small owls, sparrow hawks, sharp-shinned hawks, doves, grackles, and the larger thrushes.
121mm (4¾")	Used for grouse, large shorebirds, and small to medium size ducks and hawks.

All of our nets are made from nylon except the KT107 and the PT112, which are made from a slightly more expensive polyester, which under extreme sunlight lasts longer than nylon.

Except for ATS105 and ATG106 which are sand color and green respectively, all of our nets are black for low visibility under most conditions.

## AFO Mist Net Specifications

Catalog Number	Mesh	Length	Height	Ply/Denier	Shelves	Price
FT 100 (FTX)	24mm Lightest	12m (39'5")	2.6m (8'6")	2/70	4	\$76
GT 101 (GTX)	24mm (1")	6m (19'8")	2.6m (8'6")	2/70	4	\$43
HT 102 (HTX)	30mm (1¼")	12m (39'5")	2.6m (8'6")	2/70	4	\$65
JT 103 (JTX)	30mm (1¼")	6m (19'8")	2.6m (8'6")	2/70	4	\$37
AT 104 (ATX)	36mm (1½")	12m (39'5")	2.6m (8'6")	2/70	4	\$59
ATS 105 (ATXS)	Same as AT except yarn is <b>sand</b> color					\$59
ATG 106 (ATXG)	Same as AT except yarn is <b>dark</b> green					\$59
KT 107 (KTX)	Same as AT except yarn is <b>polyester</b>					\$76
PT 112 (PTX)	Same as JT except yarn is <b>polyester</b>					\$46
DT 108 (DTX)	36mm (1½")	6m (19'8")	2.6m (8'6")	2/70	4	\$31
LT 109 (LTX)	36mm (1½")	20m (65'7")	2.6m (8'6")	2/70	5	\$135
CT 110 (CTX)	61mm (2¾")	12m (39'5")	2.6m (8'6")	2/110	4	\$59
ET 111 (ETX)	121mm (4¾")	12m (39'5")	2.6m (8'6")	4/210	2	\$52

### Cat. No. 112 Pole Set for Mist Nets .....\$150

Each set contains six four-foot long sections of heavy-wall, 1" diameter aluminum poles which, when assembled provides two twelve-foot high poles from which any length net can be attached...or, if preferred, just two of the sections can be assembled for an eight-foot pole. Each set contains two sections with pointed ends for driving into the ground and the balance with specially machined end connections, which when assembled make for a solid, sturdy pole. A tether hole is provided in two of the sections.

**To Order: Tel 508-224-6521 • FAX 508-224-9220 • Email [afoband@manomet.org](mailto:afoband@manomet.org)**

## **Cat. No. 113 Leg Band Remover .....\$31**

This tool is used both to remove bands from the wires on which they come from the manufacturer, or from a bird's leg which has been mistakenly banded. A useful feature is that when the handles are squeezed the tips move OUT which is the direction you want to open the band. The tool is sized to remove bands as small as OA.



## **Cat. No. 114A/115A Combination Banding Tools**

These banding tools include a band-removal tip in the body of the tool such that the tool may be used both for removing a band from the manufacturer's delivery wire as well as crimping the band onto the leg of the bird.

### **Cat. No. 114A Small.....\$49**

**Lower Hole ....OA, O, 1C, 1**

**Mid Hole .....1B & 1A**

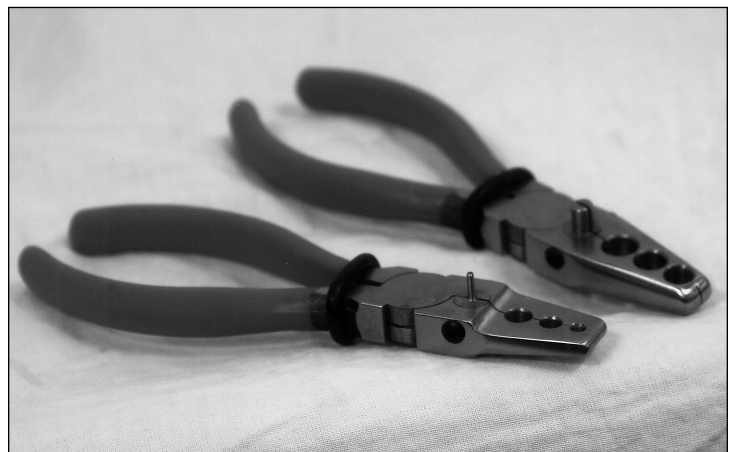
**Upper Hole ....2**

### **Cat. No. 115A Large.....\$45**

**Lower Hole ....3 & 3B**

**Mid Hole .....3A**

**Upper Hole ....4**



## Bird Carrying Bags

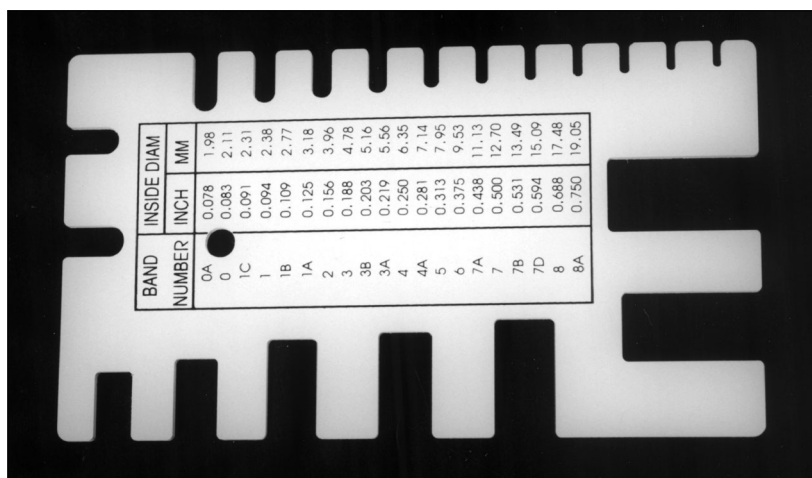
Our bags are made from lightweight cotton, using French seams to avoid loose thread which could entangle a small bird. The draw string is heavy and extra long to allow for closure and carrying. We stock two sizes, one at 8" x 12" for smaller birds and the other at 10" x 12" for larger birds.

**Cat. No. 116 Small (8" x 12").....\$7**

**Cat. No. 117 Large (10" x 12") .....\$7**

## Cat. No. 118 Leg Gauge .....\$12

Made from 1/8" plastic, our leg gauge provides slots equal in width to each of the band sizes from OA to 8A. A chart of band sizes is silk screened onto one side of the gauge. The size of the gauge is 4" x 7".

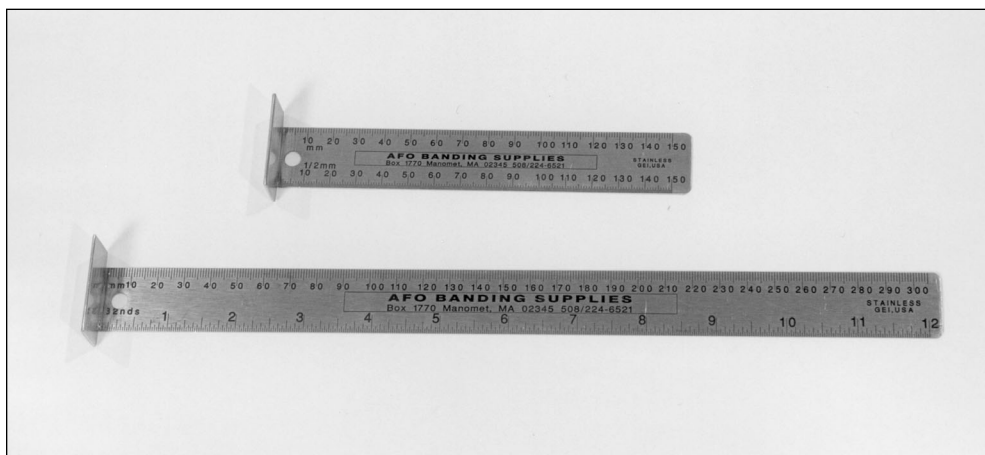


## Wing Rules–

Rules are stainless steel and have stops, also stainless steel, which extend beyond the width of the rule on both sides to allow for either right or left wings; no need for TWO separate rules.

**Cat. No. 119 150mm long (6") (metric gradations only).....\$18**

**Cat. No. 120 300mm long (12") (metric & inch gradations).....\$25**



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## Colored Plastic Leg Bands

We buy these in quantity from A.C. Hughes in England which allows us to sell them in small quantities at reasonable prices. Our minimum order is only 10 bands!

We stock ten solid colors (no striped colors) as follows:

<b>Red</b>	<b>Yellow</b>
<b>Dark Blue</b>	<b>Black</b>
<b>Green</b>	<b>Pink</b>
<b>Orange</b>	<b>Purple</b>
<b>White</b>	<b>Light Blue</b>

There are two different types of bands depending on the sizes. Under 5mm the bands are of the split type requiring a special tool to attach to the leg of a bird; 5mm and larger are wrap-around which can be applied manually. Some banders heat seal bands after application using a heated screw driver or super-glue to assure a secure joint.

**We stock the following sizes in all colors:**

### **Split Bands**

<b>Cat. No. 122</b>	<b>2.3mm (Comp. to 1C Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 123</b>	<b>2.8mm (Comp. to 1B Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 124</b>	<b>3.1mm (Comp. to 1A Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 125</b>	<b>4.0mm (Comp. to 2 Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 126</b>	<b>4.5mm (Comp. to 3 Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 127</b>	<b>Application tool for above</b>	<b>.....no charge</b>

### **Wrap-Around Bands**

<b>Cat. No. 128</b>	<b>5.5mm (Comp. to 3A Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 129</b>	<b>6.4mm (Comp. to 4 Alum)</b>	<b>.....\$2/10 pcs</b>
<b>Cat. No. 130</b>	<b>8.0mm (Comp. to 5 Alum)</b>	<b>.....\$3/10 pcs</b>
<b>Cat. No. 131</b>	<b>9.5mm (Comp. to 6 Alum)</b>	<b>.....\$3/10 pcs</b>
<b>Cat. No. 132</b>	<b>11.0mm (Comp. to 7A Alum)</b>	<b>.....\$3/10 pcs</b>
<b>Cat. No. 133</b>	<b>12.7mm (Comp. to 7 Alum)</b>	<b>.....\$4/10 pcs</b>
<b>Cat. No. 134</b>	<b>14.0mm (Comp. to 7D Alum)</b>	<b>.....\$4/10 pcs</b>

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## Calipers

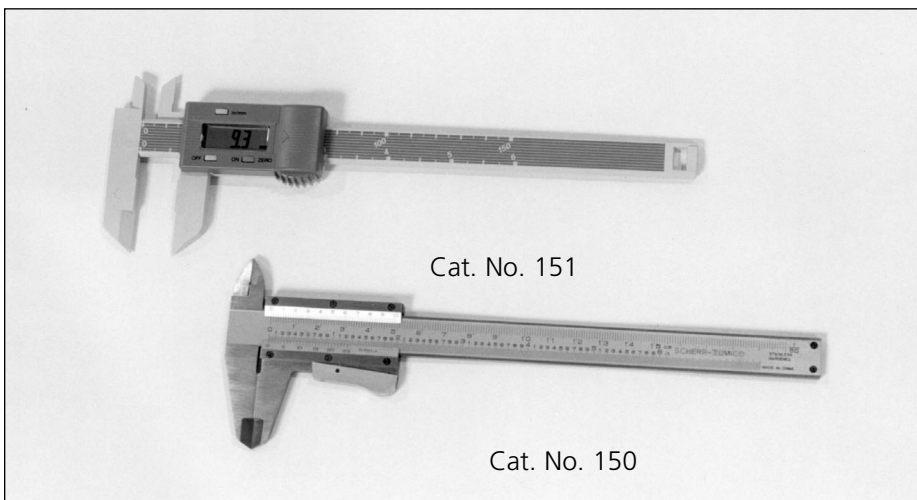
We stock two types of inexpensive calipers, one a vernier and the other a digital, which we find easier and more accurate than dial calipers.

### **Cat. No. 150 Vernier Caliper .....\$39**

Made of stainless steel, calibrated in both millimeters and inches, and with a measuring capacity of 150mm (6").

### **Cat. No. 151 Digital Calipers.....\$73**

Made of durable, weatherproof plastic, this lightweight instrument reads in either inches or millimeters up to 150mm (6") in 0.1mm (.001") increments. Comes with battery.



### **Spring Scales .....\$51 ea.**

Long the standard for laboratory use, the PESOLA scales, made in Switzerland, are the finest available. Each scale is graduated both in grams and ounces and features an easy tare method which allows you to "zero out" container weights up to 20% of scale capacity. Made of anodized stainless steel, each scale has an eye clip and crocodile clamp at the end. The accuracy is  $\pm 0.3\%$ .

We stock the following sizes:

- Cat. No. 160 Max. capacity of 30 grams (1 ounce)**
- Cat. No. 161 Max. capacity of 100 grams (3 1/2 ounces)**
- Cat. No. 162 Max. capacity of 300 grams (10 ounces)**
- Cat. No. 163 Max. capacity of 1000 grams (32 ounces)**



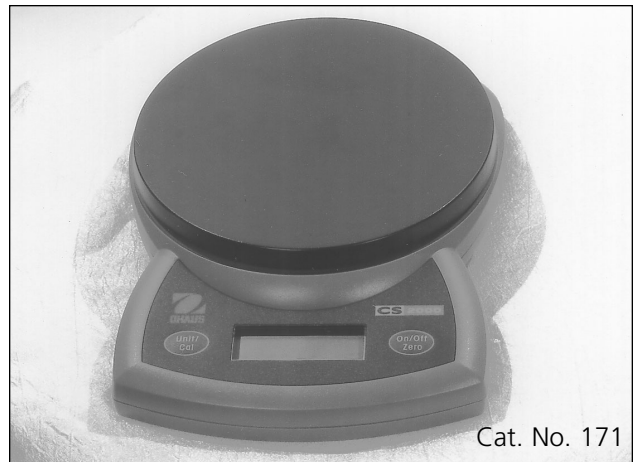
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## Cat. No. 170 Portable Digital Scale.....\$195

Some of our banding friends prefer this lightweight portable digital unit to the spring scales for field work because of its better accuracy and wider capacity range in the one instrument. It has a capacity of 250 grams with a 0.1 gram readability and accuracy of  $\pm 0.1$  grams. The unit is pocket sized, inexpensive and can accommodate species up to the size of a tern. It can be used in place of several size spring scales, cutting down on the equipment needed to be carried in the field. Batteries are included.



Cat. No. 170



Cat. No. 171

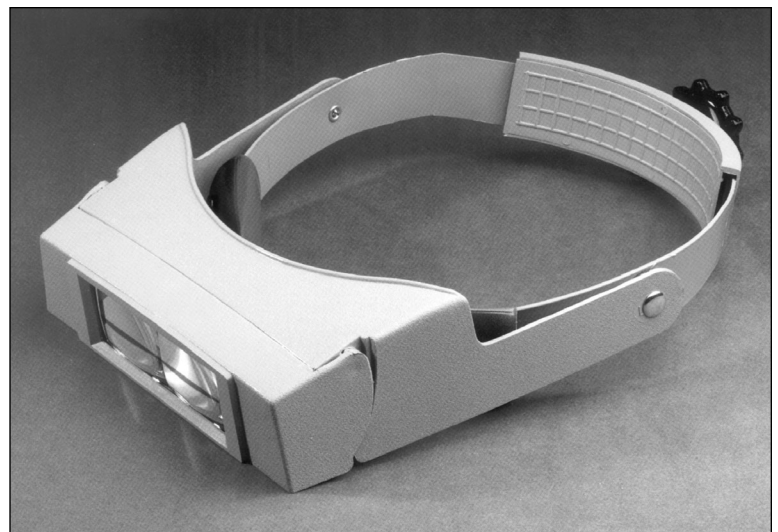
## Cat. No. 171 Laboratory Digital Scale .....\$115

For use in the banding room, we stock the reliable OHAUS CS 2000 with a capacity of 2,000 grams (4LBS., 6.5 OZ.), a readability of 1 gram (0.05 oz.), and an accuracy of  $\pm 1$  gram. The unit features simple, one-button operation, high contrast LCD display, two-second stabilization time and tare feature. Operates on 3 AA batteries (included) or an AC adapter (not included).

## Cat. No. 180 Hands-Free Magnifier .....\$19

This easy-to-wear magnifier is for checking skull ossification or other details which are difficult to see with the naked eye

The lens is shatter-resistant optical quality acrylic with no center post to obstruct vision. The unit is very light and can be worn over glasses.



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# Ordering Information

## Discounts

Members of AFO will be afforded a 10% discount from the value of the merchandise, as shown on the order form.

## Sales Tax

A sales tax of 5% will be added to any customer's order whose mailing address is in Massachusetts EXCEPT for non-profit organizations. Please let us know if you are in this category.

## Banding Permit

We cannot sell mist nets to any individual or organization without first receiving a copy or number of a permit from governmentally authorized permit holders in USA, Mexico and Canada. For others, please contact us with references.

## Shipping & Handling Charges

Shipping and handling charges to customers in the continental U.S., Canada, Hawaii and Alaska are shown in the table below. For shipments to locations other than these, or for special packaging or shipping instructions, we will charge actual costs.

Merchandise Value	S&H Charges within USA incl. Alaska & Hawaii	S&H Charges to Canada	S&H Charges to Other Locations
Under \$200	\$7	\$9	Actual Costs
\$200-\$499	\$10	\$18	
Over \$500	2%	4%	

Please be sure to include your **complete** address and phone number.

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# Association of Field Ornithologists (AFO)

The Association of Field Ornithologist (AFO) is a society of professional and amateur ornithologists dedicated to the scientific study and dissemination of information about birds in their natural habitats. Founded in 1922 as the New England Bird Banding Association, and shortly thereafter becoming the Northeastern Bird Banding Association, AFO continues to be especially active in bird-banding and development of field techniques. Additionally, AFO encourages participation of amateurs in research, and emphasizes conservation biology of birds.

**AFO BANDING SUPPLIES** was established in 1999 to offer AFO members and other participants in the banding community a wide range of supplies in addition to mist nets which AFO has provided for more than forty years.

**All of the profits generated from the sales of AFO BANDING SUPPLIES support AFO in their educational and academic activities.**

To become a member of AFO and receive the quarterly Journal of Field Ornithology, as well as to be eligible for a 10% discount from the prices of **AFO BANDING SUPPLY** products, please contact O.S.N.A., P.O. Box 1897, Lawrence, KS 66044-8897. AFO annual dues are:

Student.....	\$15
Individual .....	\$21
Institutional.....	\$45
Supporting .....	\$50 or more
Lifetime .....	\$650

***Please do not send membership applications to AFO BANDING SUPPLIES.***

**For more information about AFO, please visit our web site at <http://www.afonet.org/>**



## **AFO BANDING SUPPLIES**

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