

Natural Science



Aquatic Ecology & Sports Fishing

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FISHING POLES

Each exhibit piece must be labeled with the member's name, county and class number.

An educational exhibit of a fishing rod or pole constructed by the member. May not exceed 108" in length. Include an explanation of cost of materials/components, where materials/components were purchased, how made, and number of hours required for construction. Identify all parts. Will be judged on neatness of labels and workmanship. Necessary components which must be included are grip, line guides (based on rod or pole manufacturers specifications), guide wraps, and hook keeper. Reel seat aligned with guides. Guides aligned accurately down rod. Guide wraps of size A to D, nylon or silk thread.

- 451 200 101 Spinning Pole, Junior, one piece
- 451 200 102 Spinning Pole, Intermediate, two piece
- 451 200 103 Spinning Pole, Senior, three or four piece
- 451 200 111 Bait Casting Pole, Junior, one piece
- 451 200 112 Bait Casting Pole, Intermediate, two piece
- 451 200 113 Bait Casting Pole, Senior, three or four piece
- 451 200 121 Fly Rod, Junior, one piece
- 451 200 122 Fly Rod, Intermediate, two piece
- 451 200 123 Fly Rod, Senior, three or four piece

Judging criteria are outlined on 4-H Educational Display Check Sheet, Fishing (40-649), available at the county Extension office or on the State 4-H website at, <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

FLIES

Flies are defined as wet and dry and fall into the following categories: dry, nymph, poppers, and streamers. Materials (recipes) used may include but are not limited to: hackle, lead wire, dubbing, hook, copper wire, flash, quill, floss, chenille, thread, and hair. Entries may include but are not limited to: *Wooly Worm, Wooly Bugger, Streamer (Micky Fin); **Caddis, Caddis Pupa, Hellgramite, Scud, Grass Hopper; ***Hare's Ear, Bead Head Pheasant, Gray Hackle Peacock, Royal Coachman, Parachute Adams, Blue Wing Olive. Flies should be displayed on an 8.5"x11" black matte board. Entries must be accompanied by a 4-H Sports Fishing and Aquatic Ecology Explanation Card available at the Extension office or on the State 4-H website at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>.

(*=low difficulty, **=moderate difficulty, ***=high difficulty)

- 451 200 131 Flies, Junior, 2 total (1 nymph and 1 dry) using recipes requiring #4-6 hook.
- 451 200 132 Flies, Intermediate, 4 total (2 nymphs and 2 dry) use recipes requiring #6-8 hook.
- 451 200 133 Flies, Senior, 6 total (2 nymphs, 2 dry, and 2 using body dubbing) use recipes requiring #8-14 hook, 2 using body dubbing and recipes requiring #12-14 hook.

LURES

Lures are defined as Spoons, Spinners, Rooster Tails, Jigs, Plugs, and Spinner Baits. Materials used may include but are not limited to the following:

Spoons: metal body, split ring, hook, weed guard, thin spoon, heavy spoon, thick solid, and spinner blades.

Spinners: hook, body, beads, clevis, blade, plastic minnow, spinner used with bait.

Rooster Tails: hook, blade, beads, feather skirt, hair skirt, rubber skirt, body, clevis, Colorado blade, willow blade.

Jig: eye, assorted jig lead head, hook, feathered skirt, fur skirt, hair skirt, rubber skirt.

Plugs: metal lip, hook hanger, eye, body, hooks, propellers, joined plug, plug lip.

Spinner Bait: fluted blade, hook, Colorado blade, clevis, arm, body, skirt, eye, twin arms and blades.

Lures should be displayed on an 8.5"x11" black matte board. A 4-H Sport Fishing and Aquatic Ecology Explanation Card must accompany entries available at the Extension Offices and or on the State 4-H <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

451 200 141 Lures, Junior, 1 Spoon plus 1 additional choice.

451 200 142 Lures, Intermediate, 1 Spoon, 1 Spinner, and 2 additional choices.

451 200 143 Lures, Senior, 1 Spoon, Spinner, 1 Rooster Tail, and 3 additional choices.

COMMON KNOTS

Knots are defined as those needed to secure line from a reel seat or line holder to terminal tackle. They are limited to clinch, palomar, surgeons, surgeon's end loop, blood, nail, snell, and arbor.

Each endeavor must be represented in two mediums. One knot must be tied using white cotton cordage no smaller than 1/8" and no larger than 1/4". The second is to be tied using the appropriate material as it would be used in fishing (monofilament, Dacron backing, fly line, etc.) Knots should be displayed on an 8.5" X 11" black matte board.

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451 200 151 Common Knots, Junior, any 3 knots.

451 200 152 Common Knots, Intermediate, any 5 knots.

451 200 153 Common Knots, Senior, any 7 knots.

AQUATIC MACRO-INVERTEBRATE (M-I) SPECIMENS

Aquatic specimens are defined as those invertebrates or vertebrates, regardless of developmental stage, that serve as an energy source in fresh water (lakes, ponds, streams, rivers) fisheries. They include but are not limited to: eggs, larvae, nymphs, scuds, leeches, stoneflies, caddisflies, mosquito, dragonflies, hellgrammites, minnows, etc. Preserved specimens, photos or drawings of aquatic specimens may be displayed. Photos and drawings must be the original work of the exhibitor.

Preserved specimens are to be displayed in specimen jars in display boxes. Each specimen requires a label affixed to the display box for easy reading. Labels (3/4"x1 1/2") on preserved specimens, photos or drawings are to include the name of the collector, date collected/photographed/drawn, scientific name, common name, name of body of water from which specimen was found, county and state.

Specimen collection is progressive. Exhibitors, based on grade, are expected to add five new specimens to the collection of the previous year.

Label Example:

Collector/Date: J. Smith 01/01/01

Order Name: Ephemeroptera

Common Name/Stage: Mayfly Adult or Nymph
Body of Water: Lost Lake
County/State: Hood River OR

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- 451 200 181 Aquatic M-I Specimens, Junior, 1st year/10 specimens; Junior 2nd and 3rd year 20**
451 200 182 Aquatic M-I Specimens, Intermediate, 1st year 15-35 specimens; Intermediate 2nd & 3rd year/35
451 200 153 Aquatic M-I Specimens, Senior, 1 year/ 25-50 specimens; Senior 2nd & 3rd year/50

FISH PRINTS

May be printed using, but not limited to: water color, tempera, acrylic, oil, and ink. May be printed on material (fabric or paper) of choice or wearable clothing. Prints on non-wearable clothing may not exceed 22" x 28".

Exhibitors are to make fish prints using real or model fish. Non-fish images are not acceptable.

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- 451 200 161 Fish Prints, Junior, 1 print on material or wearable clothing.**
451 200 162 Fish Prints, Intermediate, 1 print on material and 1 wearable clothing or 2 wearable clothing. One print must be labeled with the parts of the fish and names of the fins. Labels may be permanent or removable.
451 200 163 Fish Prints, Senior, 3 prints total, in any combination. One print must be labeled with the pates of the fish and names of the fins. Labels may be permanent or removable.

EDUCATIONAL DISPLAY

Exhibits are limited in size to 30" wide, 24 " deep, 36" high. Judging criteria are outlined on 4-H Rod/Pole Fishing Educational Display Score Sheet (40-649). Displays may be presented as a poster or in three-dimensions. They must relate to Sport Fishing and Aquatic Ecology. Exhibits may include but are not limited to pictures, models, diagrams, and actual articles. A 4-H Sport Fishing and Aquatic Ecology Educational Display Card must accompany each display and is available at the Extension office or on the State 4-H website at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

- 451 200 171 Aquatic Ecology/Sports Fishing Educational Display, Junior**
451 200 172 Aquatic Ecology/Sports Fishing Educational Display, Intermediate
451 200 173 Aquatic Ecology/Sports Fishing Educational Display, Senior