List of Tables:

Table I-1: STANDARD MEASUREMENTS FOR GEAR TYPES

TYPE OF GEAR	QUANTITY	FISHING TIME	# SETS	TIME SET	TIME RECEIVED	DEPTH FISHED
Traps and Pots	# traps pulled	Mean soak time		When first pot goes over	From the moment buoy line is retrieved	Bottom depth
Trawls	# nets towed	Total tow time	# tows	When winch stops	When winch starts	Bottom of net
Gill Nets - Entanglement	# panels	Soak time	# string (net) hauls	When first buoy goes over	When last buoy comes on board	Depth of floatline
Longlines	# gangions/hooks	Soak time	# hauls	Start of set	Retrieval of set	Depth of set
Dredges	# pulled	Total tow time	# tows	When winch stops	When winch starts	Bottom depth
Nets	# pieces of apparatus	Soak time	n/a	When first net goes over	Moment buoy line is retrieved	Bottom of net
Hook and Line	# of lines (# of hooks is secondary)	Soak time (not including transit time)	n/a	Set: When first lines are lowered	When last lines are pulled up	Bottom fishing - *bottom depth* Trolling - *average depth fished between set and retrieval*
Purse Seines	Length of floatline	Soak time	# sets	When nets are placed	Nets removed	Bottom depth
By Hand	n/a	Actively Fishing	n/a	n/a	n/a	Bottom depth
Spear and Gig	#	Search time	n/a	n/a	n/a	n/a
Haul Seines	Length of net	Soak Time		Seine in	Seine out	

Table I-2: GEAR DATA ELEMENTS FOR GILL NET FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Unique Identifier *	- Trip start, vessel or individual identifier, and trip number - See vessel and trip information	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Vessel name	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit numeric
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit numeric
Gear Characteristics		
Number of Nets *	- # nets used in the gear	2 digit numeric
Length of Nets *	- Average horizontal distance in feet of net on this gear as measured along the floatline	3 digit numeric
Mesh Count, Vertical *	- Average number of vertical meshes for this gear type	2 digit numeric
Net Height *	- Average height of net measured in feet at the endline	2 digit numeric plus 1 decimal point
Net Color	- Color or combinations of colors that best describe individual net panels (00 = unknown; 01 = clear; 02 = white; 03 = pink; 04 = black; 05 = green; 06 = blue; 07 = multicolor; 08 = red; 09 = orange; 10 = purple; 98 = combination; 99 = other)	2 digit character
Hanging Ratio *	- Average ratio of the number of meshes to the length of the floatline they are attached to	1 digit numeric plus 2 decimals
Minimum Mesh Size *	- Minimum mesh size of the net - To be collected only if net mesh size is not recorded	2 digit numeric plus 2 decimals
Maximum Mesh Size *	- Maximum mesh size of the net - To be collected only if net mesh size is not recorded	2 digit numeric plus 2 decimals
# Nets at each Mesh Size *	- # nets of each corresponding mesh size	2 digit numeric
Net Mesh Size (actual or estimated) *	- Indicate whether mesh size corresponding to # nets element are actual or estimated to the nearest 1/10th of an inch	2 digit numeric plus 1 decimal
Maximum Twine Size	- Maximum twine size the net/To be collected only if nettwine size is not recorded	2 digit numeric
Net Material *	- Type of material used to construct the majority of the net (0 = unknown; 1 = mono; 2 = multi-mono; 3 = multistrand; 9 = other)	1 digit character
Floatline Material *	- Type of material used to construct the majority of the floatline (0 = unknown; 1 = floating with foam core; 2 = twisted poly; 9 = other)	1 digit character
Float Distance	- Average distance in inches between floats; measured from center to center	2 digit numeric
Float Type	- Material used to construct the majority of floats (0 = unknown; 1 = plastic; 2 = styrofoam; 9 = other)	1 digit character
Float Diameter	- Average float diameter measured in centimeters	2 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Leadline Weight *	- Weight of leadline measured in pounds per 100 fathoms	3 digit numeric
Additional Leadline Weight	- Total weight in pounds of additional weights added to leadline (not including the leadline weight)	3 digit numeric
Length of Tiedowns *	- Average length of tiedown measured in feet	1 digit numeric plus 1 decimal
Distance Between Tiedowns	- Average distance between tiedowns measured in feet	2 digit numeric plus 1 decimal
Length of Buoyline *	- Average length of buoyline in feet; measured from the floats at the water surface	2 digit numeric
Anchor Weight *	- Total weight of anchor(s) in pounds holding gear in place	3 digit numeric
Anchor Method	- Type of method used to anchor the gear (0 = unknown; 1 = tied to vessel only; 2 = anchored only; 3 = tied to vessel and anchored; 9 = other)	1 digit numeric code
Number of High Flyers	- # high flyers used on this gear	2 digit numeric
Floatline Length *	- Length of floatline in feet	5 digit numeric
Number Floats *	- # floats used	5 digit numeric
Floatline Type *	- 0 = unknown; 1 = sinking/neutrally buoyant; 2 = floating; 8 = combination (record all line types used in the comments fields) 9 = other (record line type in the comments field)	1 digit numeric
Floatline Diameter *	- Average diameter of the floatline in inches	1 digit plus 2 decimals
Leadline Length *	- Length of leadline in feet	5 digit numeric
Leadline Type *	- 0 = unknown; 1 = sinking/neutrally buoyant; 2 = floating; 8 = combination (record all line types used in the comments fields); 9 = other (record line type in the comments field)	1 digit numeric
Leadline Diameter *	- Average diameter of the leadline in inches	1 digit plus 2 decimals
Space between Net	- Number of spaces used between nets	3 digit numeric
Weighted Width of Spaces between Net	- To the nearest foot - Weighted average width of space(s) used between nets	2 digit numeric
Number of Spaces *	- # spaces between nets	3 digit numeric
Anchor Method	- Type of method used to anchor the gear (0 = unknown; 1 = tied to vessel only; 2 = anchored only; 3 = tied to vessel and anchored; 9 = other)	1 digit character
Net Information		
Net Mesh Size *	- Inside distance between knot to knot of stretched mesh	2 digit numeric plus 2 decimals
Twine Size *	- Twine size derived from the diameter of the net webbing	2 digit numeric
Comments	- Comments or uncoded data	Text

Table I-3: GEAR DATA ELEMENTS FOR TRAWL FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Vessel name	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit numeric
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit numeric
Gear Characteristics		
Net Name *	- Common name for net (If no common name; indicate net manufacturer and other relevant information)	25 digit character
Net Position	- Net position relative to vessel and other nets (1 = out/port; 2 = in/port; 3 = in/starboard; 4 = out/starbaord; 5 = trytrawl; 6 = stern trawl)	1 digit numeric
Door Type *	- Common name of door type; include construction material	25 digit character
Door Length	- Length of the sled edge in feet	4 digit numeric plus 2 decimals
Door Height	- Height of door in feet	4 digit numeric plus 2 decimals
Door Weight *	- Weight of one door in pounds	4 digit numeric
Net Construction Material Type *	- Primary type of construction material used in the body of the net; the codend and the liner (00 = unknown; 01 = nylon; 02 = poly; 99 = other)	2 digit character
Headrope Length *	- Length of headrope in feet	3 digit numeric plus 2 decimals
Footrope/Sweep Length *	- Length of footrope/sweep in feet	3 digit numeric plus 2 decimals
Ground Cable Length *	- Length of ground cable in feet	3 digit numeric plus 2 decimals
Top Bridle Length *	- Length of top bridle in feet	3 digit numeric plus 2 decimals
Bottom Bridle Length *	- Length of bottom bridle in feet	3 digit numeric plus 2 decimals
Number of Meshes in the Fishing Circle *	- # meshes at the area of largest opening in the net	4 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Mesh Size in the Fishing Circle *	- Size of mesh opening to the nearest tenth of an inch	3 digit numeric plus 1 decimal
Mesh Type in the Fishing Circle	- Type of mesh used in fishing circle (1 = square; 2 = diamond)	1 digit character
Measurement Type in the Fishing Circle *	- Type of mesh measure (1 = stretc.hed center knot to center knot; 2 = stretc.hed inside measure; 3 = bar)	1 digit character
Codend Hung *	- Hanging configuration of codend (1 = diamond; 2 = square; 3 = square wrapped; 4 = combination; 5 = other; 6 = unknown)	1 digit character
Codend Twine Type *	- Twine type (number of strands) in codend of net (1 = single; 2 = double)	1 digit character
Codend Twine Material	- Material used to construct codend (00 = unknown; 01 = nylon; 02 = poly; 99 = other)	2 digit character
Codend Twine Diameter	- Diameter of twine used in codend in millimeters	2 digit numeric
Codend Mesh Size *	- Size of mesh opening in codend to the nearest tenth of an inch	3 digit numeric plus 1 decimal
Liner Used *	- Is a liner used in codend? (0 = no; 1 =yes)	1 digit character
Liner Mesh Size *	- Size of liner mesh opening to the nearest tenth of an inch	3 digit numeric plus 1 decimal
Liner Mesh Type *	- Mesh type used in liner (1 = square; 2 = diamond)	1 digit character
Codend Strengthener Used	- Is there a strengthener used on codend? (0 = no; 1 = yes)	1 digit character
Codend Chaffing Gear Used *	- Is chaffing gear used on codend? (0 = none; 1 = bottom half; 2 = all the way around)	1 digit character
Codend Length	- # meshes in length of codend	3 digit numeric
Codend Circumference	- # meshes in widest circumference in codend	3 digit numeric
Codend Mesh Size *	- Size of mesh opening in the codend	3 digit numeric plus 1 decimal
Codend Mesh Type *	- Mesh type used in codend (1 = square; 2= diamond)	1 digit character
Codend Measurement Type *	Type of mesh measure (1 = stretc.hed center knot to center knot; 2 = stretc.hed inside measure; 3 = bar)/This should be consistent for all mesh measurements	1 digit character
Graduated Mesh in Net Body *	- Is the mesh size used in the body of the net the same size throughout? (0 = no; 1 = yes)	1 digit character
Minimum Mesh Size in Net Body *	- Size of opening of smallest mesh	3 digit numeric plus 1 decimal
Maximum Mesh in Net Body *	- Size of opening of largest mesh	3 digit numeric plus 1 decimal
Net Body Mesh Type	- Mesh type used in net body (1 = square; 2 = diamond)	1 digit character

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DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Net Body Mesh Measurement Type *	- Type of mesh measure (1 = stretc.hed center knot to center knot; 2 = stretc.hed inside measure; 3 = bar)/This should be consistent for all mesh measurements	1 digit character
Cable Type *	- Type of ground gear used on ground cable (0 = none; 1 = chain; 2 = cable; 3 = wrapped cable; 4 = rock hopper; 5 = roller; 6 = rubber cookie; 7 = bobbin; 9 = other; 10 = unknown)	2 digit character
Cable Diameter *	- Maximum diameter in centimeters of ground gear	3 digit numeric plus 2 decimals
Leg/Bridle Type *	- Type of ground gear used on leg/bridle (0 = none; 1 = chain; 2 = cable; 3 = wrapped cable; 4 = rock hopper; 5 = roller; 6 = rubber cookie; 7 = bobbin; 9 = other; 10 = unknown)	2 digit character
Leg/Bridle Diameter *	- Maximum diameter of leg/bridle in millimeters	3 digit numeric plus 2 decimals
Footrope Type *	Type of ground gear used on footrope (0 = none; 1 = chain; 2 = cable; 3 = wrapped cable; 4 = rock hopper; 5 = roller; 6 = rubber cookie; 7 = bobbin; 9 = other; 10 = unknown)	2 digit character
Footrope Diameter *	- Maximum diameter of footrope in millimeters	3 digit numeric plus 2 decimals
Trawl Extension Used *	- Is a trawl extension used? (0 = no; 1 = yes)	1 digit character
Trawl Extension Mesh Size	- Size of mesh opening in the trawl extension	3 digit numeric plus 1 decimal
Trawl Extension Mesh Type	- Mesh type used in the trawl extension (1 = square; 2 = diamond)	1 digit character
Trawl Extension Mesh Measurement Type	- Type of mesh measure (1 = stretc.hed center knot to center knot; 2 = stretc.hed inside measure; 3 = bar) This should be consistent for all mesh measurements	1 digit character
Tickler Chain Length *	- Length of chain in feet	3 digit numeric plus 2 decimals (00 = not used)
Tickler Chain Size	- Stock size of the chain	2 digit numeric plus 2 decimals
Number of Floats on Headrope *	- # floats on headrope	2 digit numeric
Floatation Diameter *	- Maximum diameter of most common float size in centimeters	3 digit numeric plus 2 decimals
Loop Chain Length *	- Length of chain in feet	3 digit numeric plus 2 decimals (00=not used)
Loop Chain Size	- Stock size of chain	2 digit numeric plus 2 decimal points
Number of Links Per Loop	- # chain links between two attachments to the footrope	2 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
# of Loops Per Net	- # chain links between two attachments to the footrope	2 digit numeric
Release/Discard Reduction Device Used *	- Release/discard reduction device used? (0 = no; 1 = yes)	1 digit character
Type of Release/Discard Reduction Device	- Type of release/discard reduction device used in the trawl (0 = none; 1 = TED; 2 = finfish excluder; 3 = finfish deflector; 4 = combination; 5 = other; 6 = unknown)	1 digit character
Escape Outlet Used *	- Indicate whether escape outlets are used (0 = no; 1 = yes)	1 digit character
Escape Outlet Type	- Type of escape outlet used on this gear (0 = unknown; 1=panel; 2=opening; 3=single flap; 9=other)	1 digit character
Kite Panel Used *	Indicate whether a kite is used in this gear (0 = no; 1 = yes)	1 digit character
Number of Panels in Kite	- Total number of panels used in a kite in this net	2 digit numeric
Width of Panels in Kite	- Average width of the panels used in a kite in this net	3 digit numeric plus 2 decimals
Length of Panels in Kite	- Average length of the panels used in a kite in this net	3 digit numeric plus 2 decimals
Additional Characteristics for Twin Trawl Gear		
Twin Trawls Connected *	- Indicate if the two nets are connected to each other while fishing by the center ground cables or bridles (0 = no; 1 = yes)	1 digit character
Additional Characteristics for Single/Paired Midwater Trawl Gear		
Gear Fished *	- How is gear fished? (0 = unknown; 1 = pelagic; 2 = semi-pelagic; 3 = bottom; 9 = other)	1 digit character
Design *	- Design of this net (0 = unknown; 1 = two seam; 2 = four seam/equal panels; 3 = four seam/unequal panels; 9 = other)	1 digit character
Minimum Mesh Size *	- Minimum inside mesh measurement of this net (not including the codend) to the nearest tenth of an inch	2 digit numeric plus 1 decimal
Maximum Mesh Size *	- Maximum inside mesh measurement of this net (not including the codend) to the nearest tenth of an inch	4 digit numeric plus 1 decimal
Top Bridle *	- Length of the top bridle in whole fathoms	2 digit numeric
Bottom Bridle *	- Length of the bottom bridle in whole fathoms	2 digit numeric
Wing Bridle *	- Length of the wing bridle in whole fathoms	2 digit numeric
Bridles per Warp *	- # bridles attached to each warp	2 digit numeric
Bridles per Side *	- # wings or bridles found on one side (left or right) of the net	2 digit numeric
Warps per Boat *	- # warps fished by each boat - This field should only be filled in for *Pair Trawl Trips*	2 digit numeric
Strengthener Used	Was strengthener material used in the codend of this net? (0 = no; 1 = yes)	1 digit character

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Chafing Gear	- Was chafing gear used? (0 = no; 1 = yes)	1 digit character
Additional Characteristics for Scalloped Trawl Gear		
Net Location *	- Location where the net is deployed (1 = port; 2 = starboard; 3 = aft; 9 = other)	1 digit character
Additional Characteristics for Raised Footrope Trawls		
Frame Material *	- Primary construction material of the frame (1 = aluminum; 2 = steel; 9 = unknown)	1 digit character
Frame Width *	- Width of frame in feet	2 digit numeric plus 1 decimal
Shoe Length *	- Length of shoe in inches; which is attached to the outer; lower part of the frame	2 digit numeric plus 1 decimal
Shoe Weight *	- Weight of shoe in pounds	2 digit numeric
Loop Chain Size	- Stock size of chain	2 digit numeric plus 2 decimal points
Weight of Bullet *	- Weight of bullet in pounds (which is attached to the inner, lower part o the frame and acts as a counterweight)	3 digit numeric
Attachment Point of Tickler Chain	- Distance from the footrope to the point of attachment of the tickler chain in inches	3 digit numeric
Net Body Material *	- Primary construction material of net body (00=unknown; 01=nylon; 02=poly; 03=Kevlar; 04=Spectra; 05=Tenex; 06=Nomex; 98=combination; 99=other)	2 digit character
Codend Material *	- Primary construction material of codend (00 = unknown; 01 = nylon; 02 = poly; 03 = Kevlar; 04 = Spectra; 05 = Tenex; 06 = Nomex; 98 = combination; 99 = other)	2 digit character
Codend Twine Size *	- Twine size of codend in millimeters	2 digit numeric
Additional Characteristics for Raised Footrope Trawls		
Dropper Chain Size *	- Stock size of dropper chain	2 digit numeric plus 2 decimals
Dropper Chain Sweep Length *	- Sweep length of dropper chain in feet	3 digit numeric
Number of Vertical Dropper Chains *	- # vertical dropper chains	2 digit numeric
Length of Vertical Dropper Chains *	- Length of vertical dropper chains in feet	3 digit numeric plus 2 decimals
Additional Characteristics of Beam Trawls		
Headrope Attachment Points *	- Points of attachment of headrope (1 = all along length of beam; 2 = outside edges of beam; 3 = other; 9 = unknown)	1 digit character
Number of Floats on Headrope *	- # floats on headrope	2 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Number of Bridles *	- # bridles per beam (1 = all along length of beam; 2 = outside edges of beam; 3=other; 9 = unknown)	2 digit numeric
Bridle Attachment Points *	- Points of attachment of bridle	1 digit character
Location of Additional Weights *	- Location of additional weights	1 digit character
Weight of Additional Weights *	- Total weight of additional weights in pounds	3 digit numeric plus 2 decimals
Beam Weight *	- Weight of beam in pounds	3 digit numeric plus 2 decimals
Beam Shoe Width *	- Width of beam shoe in inches	2 digit numeric plus 1 decimal
Beam Height *	- Height of beam in feet	2 digit numeric plus 1 decimal
Beam Width *	- Width of beam in feet	2 digit numeric plus 1 decimal
Beam Maximum Diameter *	- Maximum diameter of beam in centimeters	3 digit numeric plus 2 decimals
Beam Fishing Opening Height *	- Height of beam fishing opening in feet	2 digit numeric plus 1 decimal
Beam Fishing Opening Width *	- Width of beam fishing opening in feet	2 digit numeric plus 1 decimal
Beam Material *	- Primary construction material of beam (0 = unknown; 1 = steel; 2 = wood; 3 = fiberglass; 9 = other)	1 digit character
Number of Rock Chains *	- # rock chains used (0 = none used)	2 digit numeric
Number of Tickler Chains *	- # tickler chains (0 = none used)	2 digit numeric
Chain Bag Used *	- Indication of whether a chain bag was used (0 = no; 1 = yes)	1 digit character
Chaffing Gear Used on Chain *	- Indication of whether chaffing gear was used (0 = no; 1 = yes)	1 digit character
Average Number of Links Between Rings in Chain *	- # links between rings	1 digit numeric
Inside Chain Ring Size (Top of Bag) *	- Inside diameter of rings in inches	2 digit numeric plus 2 decimal points
Inside Chain Ring Size (Bottom of Bag) *	- Inside diameter of rings in inches	2 digit numeric plus 2 decimal points
Chain Length	- # rings from club - Stick or terminal end of dredge-to-dredge frame	3 digit numeric
Comments	Comments or uncoded data	Text

Table I-4: GEAR DATA ELEMENTS FOR LONGLINE FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit numeric
Gear Characteristics		
Number of Hooks *	- Average # hooks per gear (round to nearest whole number) over the entire trip	4 digit numeric
Mainline Diameter *	- Diameter of mainline in millimeters	3 digit numeric plus 1 decimal
Mainline Test *	- Strength of line in pound strength	4 digit numeric
Mainline Material *	- Primary construction material of mainline (1 = nylon; 2 = cotton; 3 = steel wire; 9 = other)	1 digit character
Number of Strands in Mainline *	- # strands in mainline	2 digit numeric
Mainline Color	- Predominant colors used in the mainline (1 = clear; 2 = white; 3 = pink; 4 = black; 5 = green; 6 = blue; 7 = multi-color; 8 = red; 9 = other)	2 digit character
Dropline Minimum Length *	- Shortest dropline length in feet (rounded to nearest whole number)	3 digit numeric
Dropline Maximum Length *	- Longest dropline length in feet (rounded to nearest whole number)	3 digit numeric
Gangions Diameter *	- Diameter of gangions in millimeters	3 digit numeric plus 1 decimal
Gangions Test *	- Strength of line in pound strength	3 digit numeric
Gangions Material *	- Primary construction material of gangions (1 = nylon; 2 = cotton; 3 = steel wire; 9 = other)	1 digit character
Distance Between Gangions *	- Distance between hooks (round in whole feet)	4 digit numeric
Gangions Color	- Predominant colors of gangions (1 = clear; 2 = white; 3 = pink; 4 = black; 5 = green; 6 = blue; 7 = multi-color; 8 = red; 9 = other)	2 digit character

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Gangion Minimum Length *	- Shortest dropline length used in feet (rounded to nearest whole number)	3 digit numeric
Gangion Maximum Length *	- Longest dropline length used in feet (rounded to nearest whole number)	3 digit numeric
Leader Length *	- Average total length of leader (rounded to whole inches) (0 = none used)	4 digit numeric
Leader Test *	- Strength of line in pound strength	3 digit numeric
Leader Material *	- Type of leader material (1 = nylon; 2 = cotton; 3 = steel wire; 9 = other)	1 digit character
Hook Brand	- Manufacturer brand name	10 digit character
Hook Model/Pattern Number *	- Hook number assigned by manufacturer	10 digit character
Hook Size *	- Manufacturer hook size with slash included	4 digit character
Number of Light Sticks *	- Average total count of light sticks; calculated based on light sticks per set during trip (0 = none used)	4 digit numeric
Light Stick Color(s)	- Predominant color of light sticks (1 = clear; 2 = white; 3 = pink; 4 = black; 5 = green; 6 = blue; 7 = multi-color; 8 = red; 9 = other)	2 digit character
Number of Radio Beacons *	- # radio beacons used on this gear	2 digit numeric
Number of Radar Reflectors *	- # radar reflectors used on this gear	2 digit numeric
Number of Floats *	- Average total count of polyballs and/or dobs used per set for the trip (0 = none used)	3 digit numeric
Number of Hooks Between Floats *	- Total count of hooks (round to whole numbers) between floats	4 digit numeric
Anchor Weight *	- Total anchor weight in whole pounds (0 = none used)	3 digit numeric
Anchor Weight/Actual or Estimated *	- Indication of how weight was measured (1 = actual; 2 = estimated)	1 digit numeric
Bait Used *	- Indication of whether bait was used or not (0 = no; 1 = yes)	1 digit character
Bait	- Predominant species used as bait	6 digit character
Comments	- Comments or uncoded data	Text

Table I-5: GEAR DATA ELEMENTS FOR DREDGE FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics for Scallop Dredge		
Dredge Frame Type *	- 0 = unknown; 1 = standard; 2 = C-farm; 3 = other	1 digit character
Dredge Configuration *	- 0 = unknown; 1 =standard; 2 = turtle chain mat	1 digit character
Dredge Weight *	- Estimated weight of dredge frame and bag in pounds	5 digit numeric
Width of Dredge Shoe	- Width of dredge shoe in inches at widest point	3 digit numeric plus 2 decimals
Number of Digby/Rock Buckets Per Dredge *	- # buckets on Digby dredge	2 digit numeric
Bucket Width *	- Width of bucket opening in inches	3 digit numeric plus 2 decimals
Bucket Height *	- Height of bucket opening in inches	3 digit numeric plus 2 decimals
Frame Height *	- Height of dredge frame in inches (bottom of cutting bar to top of pressure plate or top of frame)	3 digit numeric plus 2 decimal points
Frame Width *	- Width of frame at the widest point in inches	3 digit numeric plus 2 decimal points
Fishing Opening Height	- Height of fishing opening from bottom of cutting bar or shoe to bottom of upper frame in inches	3 digit numeric plus 2 decimal points
Fishing Opening Width	- Inside measure of the widest point in dredge frame in feet	3 digit numeric plus 2 decimals
Cutting Bar Used	- Type of cutting bar used (0 = none; 1 = bar only; 2 = bar with teeth; 8 = other; 9 = unknown)	1 digit character

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Angle of Cutting Bar/Teeth	- Angle of teeth or cutting bar in relation to horizontal in degrees	2 digit numeric
Depth of Cutting Bar/Teeth	- Maximum depth bar/teeth cut into sediment in inches	2 digit numeric plus 2 decimals
Teeth Spacing	- Space between teeth in inches	2 digit numeric plus 2 decimals
Pressure Plate Used *	- Indication of whether a pressure plate was used (0 = no; 1 = yes)	1 digit character
Club Stick Used *	- Indication of whether a club stick was used (0 = no; 1 = yes)	1 digit character
Twine Top Mesh Size *	- Record to the nearest tenth of an inch inside mesh measurements from the twine top (0 = no twine top used)	3 digit numeric plus 1 decimal
Twine Top Mesh Configuration *	- Mesh configuration used in the twine top (0 = unknown; 1 = square; 2 = diamond; 8 = combination)	1 digit character
Twine Top Measurement Type *	- Type of mesh measurement (1 = stretc.hed center knot to center knot; 2 = stretc.hed inside measure; 3 = bar)	1 digit character
Twine Top Number of Meshes Long *	- # meshes for the length of the twine top (runs from the dredge frame to the chain bag)	2 digit numeric
Twine Top Number of Meshes Width *	- # meshes for the width of the twine top (runs from one side of the dredge frame to the other side of the dredge frame)	2 digit numeric
Number of Rings *	- # rings from which the twine top is hung	2 digit numeric
Number of Rows of Rings in the Apron *	- # rows of rings in the apron (from the row of rings attached to the bottom of the twine top to the row of rings attached to the clubstick)	3 digit numeric
Twine Top Height in Rings	- # rings in length	2 digit numeric
Twine Top Width in Rings	- # rings in width	2 digit numeric
Number of Rock Chains *	- # rock chains used (0 = none used)	2 digit numeric
Number of Tickler Chains *	- # tickler chains (0 = none used)	2 digit numeric
Chain Bag Used *	- Indication of whether a chain bag was used (0 = no; 1 = yes)	1 digit character
Chaffing Gear Used on Chain *	- Indication of whether chaffing gear was used (0 = no; 1 = yes)	1 digit character
Average Number of Links Between Rings in Chain *	- Average number of links between two rings in the bottom of the chain bag	1 digit numeric
Inside Chain Ring Size (Top of Bag) *	- Inside diameter of randomly selected rings in inches from the apron	2 digit numeric plus 2 decimals
Inside Chain Ring Size (bottom of bag)	- Inside diameter of randomly selected rings in inches from the bottom of the chain bag	2 digit numeric plus 2 decimals
Chain Length	- # rings from clubstick or terminal end of dredge to dredge frame	3 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Mesh Bag Chaffing gear Used	- Indication of whether chaffing gear was used (0 = no; 1 = yes)	1 digit character
Mesh Bag Mesh Size	- Size of mesh (0 = no mesh bag used)	3 digit numeric plus 2 decimals
Mesh Bag Mesh Type *	- Type of mesh used in the mesh bag (1 = square; 2 = diamond)	1 digit character
Mesh Bag Measurement Type *	- Type of mesh measurement (1 = stretched center knot to center knot; 2 = stretc.hed inside measure; 3 = bar)	1 digit character
Mesh Bag Length *	- # meshes in length	2 digit numeric
Mesh Bag Circumference *	- # meshes in fishing circle	3 digit numeric
Gear Characteristics for Hydraulic Escalator Dredge		
Cage Height *	- Overall height of the cage frame in whole inches	2 digit numeric
Cage Width *	- Width of the dredge cage in whole inches	2 digit numeric
Cage Length *	- Length of the dredge cage in whole inches	3 digit numeric
Cage Bottom Bar Diameter *	- Size of the bars in the bottom of the cage in whole inches	2 digit numeric plus 1 decimal
Cage Bottom Bar Spacing *	- Distance between the bars in the bottom of the cage in whole inces	2 digit numeric plus 1 decimal
Sorter Used *	- Indicate whether a sorter was used to remove undersized shellfish; debris, etc. from catch (0 = no; 1 = yes)	1 digit numeric
Towline Type *	- Type of line configuration used to two the dredge (0 = unknown; 1 = single; 2 = bridle; 3 = other)	1 digit numeric
Pump Capacity *	- Horsepower of pump	3 digit numeric
Intake or Suction Hose *	- Inside diameter of intake or suction hose in millimeters	2 digit numeric plus 1 decimal
Pressure Hose *	- Inside diameter of pressure hose in millimeters	2 digit numeric plus 1 decimal
Pressure Manifold or Head *	- Width between inside edge of sled runners in inches	3 digit numeric
Number of Nozzles on Manifold *	- # nozzles on manifold	2 digit numeric
Diameter of Nozzles *	- Inside diameter of nozzles in millimeters	2 digit numeric plus 1 decimal
Length of Nozzles *	- Length of nozzles in feet from point of attachment on manifold to opening of nozzle	2 digit numeric plus 1 decimal
Angle of Nozzle Attachment	- Angle of nozzle measured from horizontal	2 digit numeric
Overall Length of Conveyor *	- Overall length of conveyor in feet measured from manifold to other end of conveyor belt where it reverses direction	2 digit numeric plus 1 decimal
Comments	- Comments or uncoded data	Text

Table I-6: GEAR DATA ELEMENTS FOR CAST NET FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics		
Mesh Size *	- Size of opening of largest mesh	4 digit numeric
Mesh Type *	- Type of mesh used in net (1 = square; 2 = diamond)	1 digit character
Mesh Measurement Type *	- Type of mesh measure (1 = stretched center knot to center knot; 2 = stretched inside measure; 3 = bar)	1 digit character
Number of Weights *	- # weights on the net	2 digit numeric
Individual Weight *	- Individual weight of lead line weights in ounces	2 digit numeric plus 2 decimals
Twine Material *	- Type of twine material (1 = mono; 2 = multi)	1 digit character
Breaking Strength *	- Pound test of twine	2 digit numeric plus 2 decimals
Radius of Gear *	- Radius of gear in feet	2 digit numeric plus 2 decimals
Modification *	- Are any modifications made to gear (strengtheners, etc.) (0 = no; 1 = yes)	1 digit character
Description	- Description of modifications	50 character text
Comments	- Comments or uncoded data	Text

Table I-7: GEAR DATA ELEMENTS FOR FIXED NET FISHERIES (POUND NETS, WEIRS, ETC.)

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics: Bottom Staked Pound/Fyke & Hoop Nets (including floating trap nets)		
Net Active *	- 0 = no; 1 = yes; 3 = unknown	1 digit character
Ebb/Flood Tide *	- 0 = ebb; 1 = flood	1 digit character
High/Low Tide *	- 0 = low; 1 = high	1 digit character
Pound/Bowl Shape *	- Geometric shape of pound/bowl (0 = unknown; 1 = rectangular; 2=round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	1 digit character
Length/Diameter of Pound/Bowl *	- Length/diameter of gear in feet	2 digit numeric
Width *	- Width of gear in feet	2 digit numeric
Mesh Size *	- Predominant mesh size	3 digit numeric plus 1 decimal
Twine Size *	- Predominant twine size	3 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Pound/Bowl Material *	- Predominant construction material (00 = unknown; 01 = nylon; 02 = poly; 03 = Kevlar; 04 = Spectra; 05 = Tenex; 06 = Nomex; 98= combination; 99 = other)	1 digit character
Height of Pound *	- Height of pound in feet	3 digit numeric
Number of Pounds *	- # pounds; hoops, etc.	1 digit numeric
Bait Used *	- Bait used in the pound (i.e., hoop nets used for shrimp)	ITIS11 digit character
Anchoring Method *	- Method of anchoring the net (1 = stakes; 2 = anchors)	1 digit character
Number of Pound Escape Vents *	- # escape vents	2 digit numeric
Geometric Shape of Pound Escape Vent *	- Geometric shape of pound escape vent (0 = unknown; 1 = rectangular; 2 =round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	1 digit character
Pound Escape Vent Length *	- Total length of pound escape vent in feet	2 digit numeric
Pound Escape Vent Width *	- Total width of pound escape vent in feet	2 digit numeric
Location of Pound Escape Vent *	- Location of pound escape vent	2 digit character
Pound Biodegradable Panel Attachment Type *	- Predominant type of degradable material used (0 = none used; 1 = iron hogrings; 2 = degradable plastic; 3 = softwood lathe; 4 = uncoated wire)	1 digit character
Leader Inshore Mesh Size *	- Predominant mesh size at nearshore end of net	3 digit numeric plus 1 decimal
Leader Trap Mesh Size *	- Predominant mesh size at trap entrance	3 digit numeric plus 1 decimal
Leader Inshore Twine Size *	- Predominant twine size at nearshore end	3 digit numeric
Leader Trap Twine Size *	- Predominant twine size at trap entrance	3 digit numeric
Modified Leader Used *	- 0 = no; 1 = yes; 2 = unknown	1 digit character
Leader Material *	- Predominant construction material of leader (00 = unknown; 01 = nylon; 02 = poly; 03 = Kevlar; 04 = Spectra; 05 = Tenex; 06 = Nomex; 98 = combination; 99 = other)	1 digit character
Leader Length *	- Total length of leader in feet	4 digit numeric
Leader Inshore Depth *	- Depth of leader at nearshore end; in feet	2 digit numeric
Leader Trap Depth *	- Depth of leader at trap entrance in feet (also end of leader)	2 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Leader Anchoring Material *	- Method of anchoring the net	1 digit character
Heart Length/Diameter *	- Length/diameter of heart in feet	2 digit numeric
Heart Width *	- Width of heart in feet	2 digit numeric
Heart Mesh Size *	- Predominant mesh size in heart	3 digit numeric plus 1 decimal
Heart Twine Size *	- Predominant twine size in heart	3 digit numeric
Heart Material *	- Predominant construction material of heart	1 digit character
Heart Anchoring Method *	- Method of anchoring heart	2 digit character
Distance Between Vertical Lines *	- Average distance between vertical lines	3 digit numeric
Wing Inshore Mesh Size *	- Predominant mesh size at nearshore end of net	3 digit numeric plus 1 decimal

Wing Trap Mesh Size *	- Predominant mesh size at trap entrance	3 digit numeric plus 1 decimal
Wing Inshore Twine Size *	- Predominant twine size at nearshore end	3 digit numeric
Wing Trap Twine Size *	- Predominant twine size at trap entrance	3 digit numeric
Wing Material *	- Predominant construction material of leader (00 = unknown; 01 = nylon; 02 = poly; 03 = Kevlar; 04 = Spectra; 05 = Tenex; 06 = Nomex; 98 = combination; 99 = other)	1 digit character
Wing Length *	- Total length of wing in feet	4 digit numeric
Wing Inshore Depth *	- Depth of leader at nearshore end of net in feet	2 digit numeric
Wing Trap Depth *	- Depth of leader at trap entrance in feet (also end of leader)	2 digit numeric
Number of Wings *	# wings in the net	2 digit numeric
Wing Anchoring Material *	- Method of anchoring the wings	1 digit character
Comments	- Comments or uncoded data	Text

Table I-8: GEAR DATA ELEMENTS FOR HAUL SEINE FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics – Haul Nets		
Net Far End Mesh Size *	- Predominant mesh size at the far end of the net	3 digit numeric plus 1 decimal
Net Pocket Mesh Size *	- Predominant mesh size at the pocket	3 digit numeric plus 1 decimal
Net Far End Twine Size *	- Predominant twine size at the far end of the net	3 digit numeric
Net Pocket Twine Size *	- Predominant twine size at the pocket	3 digit numeric
Net Material *	- Predominant construction material of the net (00 = unknown; 01=nylon; 02=poly; 03 = Kevlar; 04 = Spectra; 05 = Tenex; 06 = Nomex; 98 = combination; 99 = other)	1 digit character
Net Length *	- Total length of the leader in feet	4 digit numeric
Net Depth *	- Depth at the ends of the wings in feet	2 digit numeric
Pocket Shape *	- Geometric shape of pound/bowl (0 = unknown; 1 = rectangular; 2 = round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	1 digit character
Pocket Length/Diameter *	- Length/diameter of the pocket in feet	4 digit numeric
Pocket Width *	- Width of the pocket in feet	2 digit numeric
Pocket Depth *	- Depth of the pocket in feet	2 digit numeric
Pocket Mesh Size *	- Predominant mesh size of the pocket	3 digit numeric plus 1 decimal
Pocket Twine Size *	- Predominant twine size of the pocket	3 digit numeric
Comments	- Comments or uncoded data	Text

Table I-9: GEAR DATA ELEMENTS FOR POT AND TRAP FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics		
Number of Pots *	- # pots per haul	3 digit numeric
Geometric Shape *	- Geometric shape of pots (0 = unknown; 1 = rectangular; 2 = round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	2 digit character
Frame Primary Construction Material *	- Primary material (1 = wood; 2 = wire; 3 = plastic; 9 = other)	2 digit character
Mesh Size *	- Mesh size of the pot or trap	2 digit numeric plus 2 decimals
Top Length *	- Length of the top of the predominant pot in whole inches	2 digit numeric
Top Width *	- Width of the top of the predominant pots in whole inches	2 digit numeric
Bottom Length *	- Length of the bottom of the predominant pot in whole inches	2 digit numeric
Bottom Width *	- Width of the bottom of the predominant pots in whole inches	2 digit numeric
Height *	- Height of the predominant pots in whole inches	2 digit numeric
Distance Between Pots *	- Average distance between pots in feet	2 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Number of Entrances *	- # entrances to the pot or trap	1 digit numeric
Geometric Shape of Entrance	- Geometric shape of the entrance (0 = unknown; 1 = rectangular; 2 = round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	2 digit character
Length of Entrance *	- Length of the entrance in inches	2 digit numeric
Width of Entrance *	- Width of the entrance in inches	2 digit numeric
Location of Entrance *	- Location of the entrance (00 = unknown; 01 = top; 02 = side; 03 = end; 08 = combination; 99 = unknown)	2 digit character
Number of Escape Vents *	- # escape vents	1 digit numeric
Geometric Shape of Escape Vents *	- Geometric shape of escape vents (0 = unknown; 1 = rectangular; 2 = round/oval; 3 = 1/2 round; 4 = cone; 5 = trapezoid; 6 = square; 7 = diamond; 8 = triangular; 9 = other)	2 digit character
Length/Diameter of Escape Vents *	- Length of escape vents in inches	2 digit numeric
Width of Escape Vents *	- Width of escape vents in inches	2 digit numeric
Location of Escape Vents	- Location of escape vents (00 = unknown; 01 = top; 02 = side; 03 = end; 08 = combination; 99 = unknown)	2 digit character
Use of Biodegradable Panel *	- Is a biodegradable panel used? (0 = no; 1 = yes)	1 digit character
Attachment Type *	- Type of attachment of biodegradable panel (0 = unknown; 1 = iron hog rings; 2 = degradable plastic; 3 = softwood lathe; 4 = uncoated wire; 9 = other)	1 digit character
Bait *	- Predominant type of bait used	6 digit character
Buoy Line Length *	- Length of buoy line in feet	5 digit numeric
Number of Floats *	- # floats used	5 digit numeric
Buoy Line Material *	- Predominant type of line material (0 = unknown; 1 = sinking/neutrally buoyant; 2 = floating; 8 = combination/record all line types used in the comments field; 9 = other/records line type used in the comments field)	2 digit numeric
Buoy Line Diameter *	- Average diameter of the floatline in inches	1 digit numeric plus 2 decimals

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Trot Line Material *	- Predominant type of line material (0 = unknown; 1 = sinking/neutrally buoyant; 2 = floating; 8 = combination/record all line types used in the comments field; 9 = other/records line type used in the comments field)	2 digit character
Trot Line Diameter	- Average diameter of the leadline in inches	1 digit numeric plus 2 decimals
Mark *	- Buoy(s) is(are) marked to identify the vessel or fishery (0 = no; 1 = yes)	1 digit character
Weak Links *	- Indicate if any weak links are used on this gear (0 = no; 1 =yes)	1 digit character
Number of Weak Links	- Total number of weak links used on this gear	1 digit character
Weak Link Type	- Type of weak link(s) used on this gear (0 = unknown; 1 = rope of appropriate breaking strength; 2 = off the shelf; 3 = overhand knot; 4 = hog rings; 8= combination; 9 = other)	1 digit character
Anchors Used *	- Indicate if any anchors are used on this gear (0 = no; 1 = yes)	1 digit character
Number of Anchors	- # anchors used on this gear	1 digit character
Anchor Weight	- Total weight of the anchor(s) used on this gear in whole pounds	2 digit character
Anchor Type	- Which type(s) of anchor(s) is used on this gear (0 = unknown; 1 = Danforth-style; 2 = dead weight (e.g., railroad tracks, mushroom weights); 8=combination; 9=other)	1 digit character
Anchor Line Length	- Length of line; in whole feet; between the anchor and the closest gangion attached to the groundline for this gear	1 digit character
Anchor Line Type	- Type of anchor line used on this gear (0 = unknown; 1 = sinking/neutrally buoyant; 2 = floating; 8 = combination; 9 = other)	1 digit character
Anchor Line Diameter	- Average diameter of the anchor line used on this gear in inches	1 digit numeric plus 2 decimals
Comments	- Comments or uncoded data	Text

Table I-10: DATA ELEMENTS FOR PURSE SEINE FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics		
Float Line Length *	- Length of floatline in feet	4 digit numeric
Float Line Diameter *	- Diameter of floatline in millimeters	2 digit numeric plus 2 decimals
Lead Line Length *	- Length of lead line in feet	4 digit numeric
Lead Line Diameter *	- Diameter of lead line in millimeters	2 digit numeric plus 2 decimals
Lead Line Weight *	- Total estimated weight of lead line in pounds	4 digit numeric plus 2 decimals
Purse Line Length *	- Length of purse line in feet	4 digit numeric
Purse Line Diameter *	- Diameter of purse line in millimeters	2 digit numeric plus 2 decimals
Type of Hauling Device *	- Device used to haul the net in (1 = power block; 2 = triplex; 3 = drum; 9 = other; 8 = unknown)	1 digit numeric
Ring Type *	- Type of ring used to hold purse line (1 = round; 2 = snap; 3= combo; 9 = other)	1 digit character
Ring Material *	- Material from which rings are constructed (1 = steel; 2 = iron; 3 = alloy; 4 = stainless; 5 = combo; 9 = other)	1 digit character
Net Material *	- Material used in net; excluding bunt (1 = nylon; 2 = poly; 3 = Kevlar; 4 = Spectra; 9 = other)	1 digit character
Net Length *	- Total length of net in feet	4 digit numeric

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Net Depth *	- Depth of net in feet	3 digit numeric
Net Twine Size *	- Diameter of twine in millimeters	2 digit numeric plus 1 decimal
Additional Weights Used *	- Indicate whether any additional weights were used on the leadline of this gear (0 = no; 1 = yes) - Note: additional weights are Tom weights	1 digit character
Tom Weight	- Record total weight on the leadline in pounds used on this gear to control the depth of the purse line do not include the weight of the leadline	4 digit numeric (0=none)
Net Mesh Size *	- Size of mesh in the net	3 digit numeric plus 2 decimals
Net Mesh Type	- Type of mesh used in the net (1 = square; 2 = diamond)	1 digit character
Net Mesh Measurement Type	- Type of mesh measurement (1 = stretched center knot to center knot; 2 = stretched inside measure; 3 = bar)	1 digit character
Sack/Bunt Material *	- Material used in net; excluding bunt (1 = nylon; 2 = poly; 3 = Kevlar; 4 = Spectra; 9 = other)	1 digit character
Sack/Bunt Length *	- Total length of sack/bunt in feet	4 digit numeric
Sack/Bunt Depth *	- Depth of sack/bunt in feet	3 digit numeric
Sack/Bunt Mesh Size *	- Size of mesh in the sack/bunt	3 digit numeric plus 2 decimals
Sack/Bunt Mesh Type	- Type of mesh used in the sack/bunt (1 = square; 2 = diamond)	1 digit character
Sack/Bunt Mesh Measurement Type	- Type of mesh measurement (1 = stretched center knot to center knot; 2 = stretched inside measure; 3 = bar)	1 digit character
Sack/Bunt Twine Size *	- Diameter of twine in sack/bunt in millimeters	2 digit numeric plus 1 decimal
Chase Boat Horsepower	- Total horsepower of the boat	3 digit numeric
Chase Boat Gross Tonnage	- Gross tonnage of the boat	3 digit numeric
Chase Boat Length	- Total length of the chase boat in feet	2 digit numeric
Comments	- Comments or uncoded data	Text

Table I-11: GEAR DATA ELEMENTS FOR RAKE/HOE/THONG FISHERIES

* required fields are noted with asterisk (Please note that required elements may be populated with an unknown)

DATA ELEMENT	DESCRIPTION / CRITERIA	FORMAT
Header Information		
Observer Identification Number *	- Unique observer number	30 digit character
Trip Identifier *	- Unique identifier assigned to the trip	21 digit character
Vessel Identifier *	- Unique vessel identifier (US Coast Guard or state registration number) - These identifiers must be trackable through time and space	11 digit character
Vessel Name	- Name of vessel	20 digit character
Unloading Date *	- Date of unloading at the dealer (may be more than one unloading date per trip)	MM/DD/YYYY
Gear Information		
Gear Code *	- Type of gear used to catch the marine resource	3 digit character
Gear Number *	- Consecutive number assigned to each uniquely configured gear hauled and for which characteristics are described	2 digit character
Gear Characteristics		
Operating Mechanism *	- Method of operation (1 = mechanical; 2 = hand; 3 = hydraulic; 4 = sail)	2 digit character
Shaft Length *	- Length of shaft/handle in feet	2 digit character
Width *	- Width of entire tongs, rakes, hoes in inches	2 digit numeric
Length of Tines/Teeth *	- Length of tines/teeth in inches	2 digit numeric plus 2 decimals
Spacing of Tines/Teeth *	- Spacing of tines - Teeth in inches	2 digit numeric plus 2 decimals
Bar Spacing *	- Bar spacing in inches	2 digit numeric plus 2 decimals
Weight of Tongs *	- Total weight of tongs in pounds	2 digit numeric
Comments	- Comments or uncoded data	Text