OMB Control No.: 0648-0593
Expiration Date: 09/30/2012

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Northeast Fisheries Science Center
166 Water Street
Woods Hole, MA 02543-1026

Data Waiver Form

I, _____, owner or authorized representative of the

fishing vessel, _____, CG Documentation #_____,

submit this form under Section 402(b) (1) (F) of the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C. 1881a(b) (1) (F), to authorize the release of observer information collected for fishery conservation and management purposes aboard the aforementioned vessel to:

_____

_____

_____

_____

Observer Data Waiver Period: _____

Comments: _____

_____

_____
Owner/Authorized Representative Signature

_____
Date Signed

Please return to:
Amy Van Atten, Branch Chief
Fisheries Sampling Branch
NOAA Fisheries
166 Water Street
Woods Hole, MA 02543

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0593. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Data and Information Systems (DIS) Branch by email at nefsc.svc.dis@noaa.gov.

Authority: The collection of this information is authorized under the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C 1801 et seq., the High Seas Fishing Compliance Act, 16 U.S.C. Ch. 75, the Tuna Conventions Act, 16 U.S.C. Ch. 16, the Antarctic Marine Living Resources Convention Act, 16 U.S.C. 2431 et seq., the Western and Central Pacific Fisheries Convention Implementation Act, 16 U.S.C. 6901 et seq., the Marine Mammal Protection Act, 16 USC 1361 et seq., the Endangered Species Act, 16 U.S.C. 1531, the Fur Seal Act, 16 U.S.C. 1151-1187, and the authority for the mandatory collection of the Taxpayer Identifying Number (TIN) is 31 U.S.C. 7701.

Purpose: In order to meet its mission in providing stewardship of the nation's ocean resources and their habitat, the NOAA National Marine Fisheries Service (NMFS) leads and collaborates with fishery management councils to prevent overfishing, killing of protected species, and to promote healthy ecosystems and economy. NMFS requires the use of observers in the United States to provide timely and reliable information that is critical for the conservation and management of living marine resources. NMFS collects and stores permit or registration data of its participants. The information collected includes permit holder name, address, phone number, date of birth, vessel descriptive information, and taxpayer information number (TIN). Permit holder information may be used as sampling frames for surveys, as part of Fishery Management Council (FMC) analysis to support FMC decisions.

Routine Uses: The Department will use this information to determine permit eligibility and to identify fishery participants. Disclosure of this information is permitted

External Data Request Form

Northeast Fisheries Science Center

Fishery Monitoring and Research Division

Instruction:

Individuals requesting FMRD data should complete sections 1 and 2. Completed forms can be submitted to the Data and Information Systems (DIS) Branch by email at nefsc.svc.dis@noaa.gov. Requested data is output in XLSX format. Please specify if a different format is preferred. Please send any questions to this email address as well.

Section 1: User Information

Last:_____ First: _____ Initial:_____

Affiliation: _____ Permit Number:_____

Address: _____

City: _____ State: _____ Zip Code:_____

Phone: _____ Email: _____

Signature: _____ Date Signed: ____/_____/____
Day Month Year

Section 2: Data Request Details

Purpose, Use, and Description of request:

Data Requested:

Fishery Monitoring Operations

- ☐ Observer/At-Sea Monitor
- ☐ Electronic Monitoring
- ☐ Portside Sampling

Study Fleet

- ☐ Vessel Logbook Data
- ☐ GTE (TD/GPS) Data

Cooperative Research Surveys

- ☐ Bottom Longline Survey

Date Range: _____ Spatial Range: _____

Fisheries: _____ Gear Types:_____

OMB Control Number: xxxx-xxxx

Specific Vessels : _____
(Names and Permits)

_____

Data Elements: _____

_____

Section 3: Authorization

☐ Request Approved ☐ Request Denied

_____ _____ Date:____/_____/____
Approved By Signature Day Month Year

_____ _____ Date:____/_____/____
NEFSC-ISSO Name Signature Day Month Year

Data Request ID Number: DR_____-_____

Comments:

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Privacy Act Statement
Authority: The collection of this information is authorized under the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C 1801 et seq., the High Seas Fishing Compliance Act, 16 U.S.C. Ch. 75, the Tuna Conventions Act, 16 U.S.C. Ch. 16, the Antarctic Marine Living Resources Convention Act, 16 U.S.C. 2431 et seq., the Western and Central Pacific Fisheries Convention Implementation Act, 16 U.S.C. 6901 et seq., the Marine Mammal Protection Act, 16 USC 1361 et seq., the Endangered Species Act, 16 U.S.C. 1531, the Fur Seal Act, 16 U.S.C. 1151-1187, and the authority for the mandatory collection of the Taxpayer Identifying Number (TIN) is 31 U.S.C. 7701.

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Routine Uses: The Department will use this information to determine permit eligibility and to identify fishery participants. Disclosure of this information is permitted under the Privacy Act of 1974 (5 U.S.C. Section 552a), to be shared within NMFS offices and the NMFS Observer Program. Disclosure is also for sharing with organizations, including the Atlantic Coastal Cooperative Statistics Program (ACCSP) for modeling and statistical purposes. Disclosure of this information is also subject to all of the published routine uses as identified in the Privacy Act System of Records Notice COMMERCE/NOAA-19, Permits and Registrations for the United States Federally Regulated Fisheries.

Disclosure: Voluntary.

OMB Control No. 0648-0593 valid through XX/XX/20XX

Vessel name 01/01/21

Trip ID

Hull number

Date landed (MM/DD/YYYY) / /

Northeast Fisheries Science Center, Fisheries Sampling Branch

PRE TRIP VESSEL SAFETY CHECKLIST (PTVSC)

For each safety item shade ■ in the appropriate box.

***Y** = yes, **N** = no, **NR** = not required*

It is **MANDATORY** that all safety items on board a fishing vessel that are highlighted in **BOLD** print be current (not expired) in order for an observer to deploy on a trip.

Please comment on any safety or stability related issues in the provided spaces on the back of the PTVSC

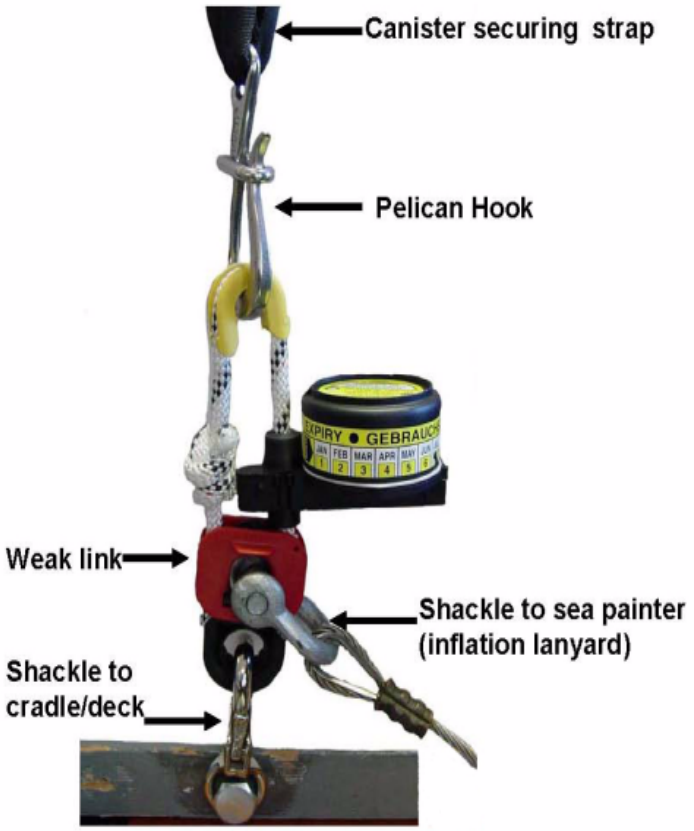
Y	N	NR	
☐	☐		**Vessel Orientation**
☐	☐		**Current USCG Commercial Fishing Vessel Safety Examination Decal** ***Required for all vessels carrying an observer on board** Safety Decal Number ____ Expiration ____ (MM/YY)
☐	☐	☐	**Emergency Position Indicating Radio Beacon (EPIRB)** ***Required for all vessels operating beyond 3 miles** Hydrostatic release service expiration ____ (MM/YY) Battery expiration ____ (MM/YY)
☐	☐		Does the alphanumeric code (UIN) on the NOAA SARSAT decal match the UIN code on EPIRB?
☐	☐		Is the EPIRB registered to the vessel or vessel owner? Expiration ____ (MM/YY)
☐	☐	☐	**Life raft(s)** ***Not required for vessels within 12 mi. of coast, ≤ 3 people and length <36'.** Hydrostatic release service expiration ____ (MM/YY) Raft service (repack) expiration ____ (MM/YY) Capacity ____
☐	☐	☐	Is the life raft configured correctly? See back of sheet for figure of the hydrostatic release
☐	☐		**Immersion suits and personal flotation devices** ***PFDs are required to be worn by the observer while out on deck** Are there enough for everyone on board? Keep yours easily accessible.
☐	☐	☐	**Life rings** **Vessels <26' = cushion, >26' = 1 life ring buoy, >65' = 3 life ring buoys**
☐	☐	☐	**Fire extinguishers** ***Not required for vessels <26' with outboard motor(s) and portable fuel tanks**
☐	☐		**Emergency signaling flares** *Check expiration dates **<3mi. = night light and smoke or 3 day/night flares; >3mi. = 3 parachute, 6 hand held, 3 smoke**
☐	☐		First aid material
☐	☐		Radio(s)
☐	☐		Were there any stability concerns/issues, either because of behavior or vessel design, during this trip? ***See back of sheet for examples. If yes, please comment.**
☐	☐		Did you provide any additional comments?

The following is a suggested list of examples that you should check or consider while doing a vessel walk through. They are listed here to assist you in determining the relative safety of a particular vessel. A more comprehensive list is detailed in the program manual.

- Note potentially hazardous areas/conditions (e.g. winches, overhead wires, rusted or worn shackles and blocks, combustible items, exposed exhaust pipes/manifolds, drive chains, pulleys or belts)
- Visualize egress routes for all possible emergency scenarios (fire, flooding, dark, capsizing) and mentally note landmarks
- Is the life raft and EPRIB located in a float free area? Would you be able to access these items if conditions were icy or the wheelhouse was on fire?
- Is there a station bill posted and is your role clear during all shipboard emergencies?
- Discuss with the captain if safety drills are conducted on this vessel? (May include fire, flooding, abandon ship, etc.) Will one be conducted when you are on board?

The following are examples of things to consider related to the vessel design or fishing practices which may compromise vessel stability.

- Note the roll period of the vessel (quick, snappy roll is more stable than a slow or sluggish roll)
- Does the vessel list excessively?
- Do the fishing practices involve a pattern of towing heavy bags or dumping the catch to one side of the vessel?



Safety Comments

Stability comments

WHEN WAS THE LAST TIME YOU CHECKED *YOUR* PERSONAL SAFETY EQUIPMENT?

Check the appropriate box for the method that was used to verify EPIRB expiration dates:

☐ I visually inspected the EPIRB; Record EVIC information below if one was issued
EVIC number | | | | | | Date issued | | | | | (MM/YY)

☐ I used a previously issued EVIC; Record EVIC information below
EVIC number | | | | | | Date issued | | | | | (MM/YY)

☐ I used approved USCG documentation that was issued within the last 90 days (comments & expiration dates required)

Signature _____ Date _____

VESSEL AND TRIP INFORMATION LOG
NMFS FISHERIES OBSERVER PROGRAM
OBTRP OBTRG OBTRS 01/01/21

IN-OFFICE

DATE RECEIVED	
EDITED BY	
DEPLOYOMENT ID	

OBS/TRIP ID	PROGRAM CODE	SECTOR ID	FLEET	VENDOR ID	INCIDENTAL TAKES	AGE STRUCTURES	WHOLE FISH	FIELD DIARY	COMMENT LOG
					☐ N ☐ B ☐ M ☐ T	☐ Env. ☐ Froz.	☐ N ☐ Y	☐ N ☐ Y	☐ N ☐ Y

VESSEL NAME # 1	VESSEL NUMBER # 1	VESSEL PERMIT # 1	PORT SAILED (CITY, STATE) CODE	DATE SAILED mm/dd/yy	TIME SAILED 24 h
				/ /	:
VESSEL NAME # 2	**VESSEL NUMBER # 2**	**VESSEL PERMIT # 2**	**PORT LANDED (CITY, STATE) CODE**	**DATE LANDED mm/dd/yy**	**TIME LANDED 24 h**
				☐☐ / ☐☐ / ☐☐	:

HOME PORT (CITY,STATE) CODE	EXP. TRIP DUR	CREW SIZE (INCLUDE CAPT)	DEALER'S NAME	VTR SERIAL NUMBER	STEAM TIME (calc)
	day(s)				_____.__ hrs

TRIP TYPE			TRIP COSTS							
Single Gear 1 ___ Multiple Gear 2 ___	ICE USED	FUEL USED	DAMAGE/LOSS * Unknown ___	SUPPLIES * Unknown ___	FOOD Unknown ___	ICE (PER TON) Unknown ___	FUEL (PER GAL) Unknown ___	WATER Unknown ___	OIL Unknown ___	BAIT Unknown ___
	_____ . __ __ tn	_____ gal	$ _____ . 00	$ _____ . 00	$ _____ . 00	$ ____ . __ __	$ _____ . __ __	$ _____ . 00	$ _____ . 00	$ _____ . 00

GEAR INFORMATION (IN USE & STOWED)

	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (yrs)	TARGET SPECIES	CODE(S)
PRIMARY GEAR	☐☐☐	No 0 ___ Yes 1 ___					
OTHER GEAR 1		No 0 ___ Yes 1 ___					
OTHER GEAR 2		No 0 ___ Yes 1 ___					
OTHER GEAR 3		No 0 ___ Yes 1 ___					

TIME LOST *

REASON	AMOUNT
_____	_____.__ hrs
_____	_____.__ hrs
_____	_____.__ hrs
_____	_____.__ hrs
_____	_____.__ hrs

# TRIP HAULS	# UNOBSERVED HAULS	PRIMARY SPECIES LANDED	PHOTOS?
			☐ N ☐ Y

SCALLOP TRIPS ONLY

SOAKED?	*# OF BAGS*	*AVERAGE WGT/BAG*
No 0 ___ Yes 1 ___		_____ *lb*

COMMENTS

Only fill in for first trip of deployment

DATE ARRIVED AT DOCK mm/dd/yy	TIME ARRIVED 24 h
/ /	:

Only fill in for last trip of deployment

DATE DISEMBARKED mm/dd/yy	TIME DISEMBARKED 24 h
/ /	:

* Fields that require a comment

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Expires On: XX/XX/20XX

GILLNET GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBGGG OBMSZ 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER(S) | NUMBER OF NETS

AVERAGE NET:

LENGTH _____ ft

HEIGHT (endline) _____ . ____ ft

MESH COUNT VERTICAL _____

HANGING RATIO ____ / ____

TWINE SIZE _____

FLOATLINE MATERIAL

Unknown 0 ____
Floating (foam core) 1 ____
Twisted Polypropylene 2 ____
Other 9 ____

_____

LEADLINE WEIGHT

_____ . ____ lbs/ net

USED?	**NO**	**YES**	**MEASUREMENTS**
FLOATS	0 ___	1 ___	Dist Between _____ ft
TIE DOWNS	0 ___	1 ___ (all nets) 2 ___ (not all nets)	Length _____ . ____ ft
SPACE(S) BETWEEN NETS ≥2.5ft	0 ___	1 ___	Number _____ Width _____ ft
DROPLINES	0 ___	1 ___	Length _____ ft
ADDITIONAL WGTS	0 ___	1 ___	Weight _____ lbs
ANCHOR(S)	0 ___	1 ___	Type

Number _____

Weight (total) _____ lbs

Unknown 0 ____
Danforth-style 1 ____
Dead Weight 2 ____
Combination 8 ____
Other 9 ____

SECURING METHOD(S)

None 1 ____
Ocean Bottom 2 ____
Vessel/Ocean Bottom 3 ____
Vessel Only 4 ____

_____

MM DETERRENT DEVICES

ACTIVE USED? 0 ____ 1 ____

Number _____

Frequency _____ kHz

PASSIVE USED? 0 ____ 1 ____

Number _____

Brand(s)

Unknown 00 ___
Dukane 01 ___
Airmar 02 ___
Fumunda 03 ___
Future Oceans LED 04 ___
Combination 98 ___
Other 99 ___

_____

COMMENTS

MESH SIZE(S)

# OF NETS	MESH SIZE (inches)
	_____ . ___ ___
	_____ . ___ ___
	_____ . ___ ___
	_____ . ___ ___

OR

MESH SIZE RANGE

____ . ___ ___ - ____ . ___ ___

NET COLOR

Unknown	00 ___
Clear	01 ___
White	02 ___
Pink	03 ___
Black	04 ___
Green	05 ___
Blue	06 ___
Multi-color	07 ___
Red	08 ___
Orange	09 ___
Purple	10 ___
Combination	98 ___
Other	99 ___

_____

SURFACE SYSTEM

# of High Flyer(s) _____

# of Buoy(s) _____

Surface Line
Length (avg) _____ ft

Type Code _____

Diameter ____ / ____ in

Mark? NO 0 ___ YES 1 ___

GROUNDLINE **NO** **YES**

USED? 0 ___ 1 ___

Length (total) _____ ft

Type Code _____

Diameter ____ / ____ in

BUOYLINE

# of Buoyline(s) _____

Length (avg) _____ ft

Type Code _____

Percent of Type (sinking / floating) ____ % / ____ %

Diameter ____ / ____ in

Mark? NO 0 ___ YES 1 ___

WEAK LINKS	**NO**	**YES**
USED ON SURFACE?	0 ___	1 ___

Number (total) _____

Type Code _____

USED ON STRING? 0 ___ 1 ___

Number (total) _____

Type Code _____

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OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

WEAK LINK TYPE CODES:

0 = Unknown
1 = Rope of Appropriate Breaking Strength
2 = Off the Shelf
3 = Overhand Knot
4 = Hog Rings
8 = Combination
9 = Other

LINE TYPE CODES:

0 = Unknown
1 = Sinking / Neutrally Buoyant
2 = Floating
8 = Combination
9 = Other

ADDITIONAL COMMENTS

DIAGRAMS FOR REFERENCE ONLY

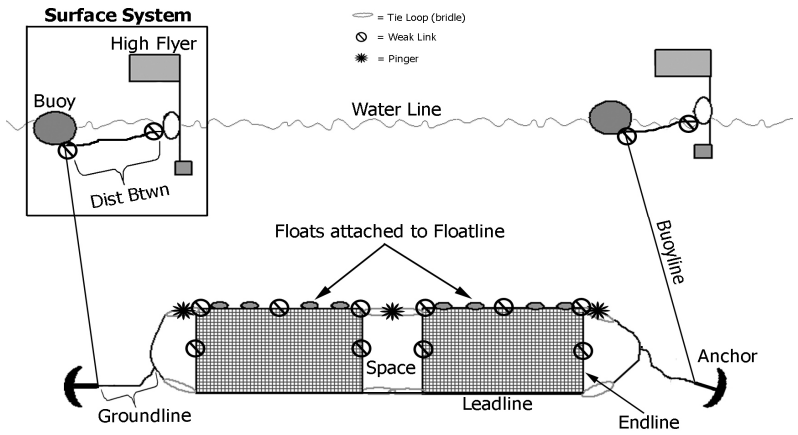
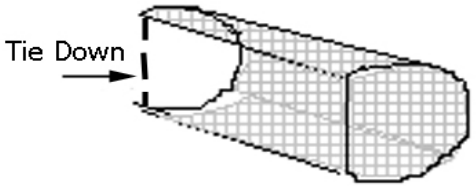


Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image modified to include additional information).



FOR OFFICE USE ONLY

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

GILLNET HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBGGH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	MM WATCH?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN BOTTOM (fm)	DEPTH, HAUL BEGIN LEADLINE (fm)
			NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1						

		DATE mm/dd/yy	TIME 24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing
SET	BEGIN	/ /	:	9960 -		9960 -	
SET	END	/ /	:	9960 -		9960 -	
HAUL	BEGIN	/ /	:	9960 -		9960 -	
HAUL	END	/ /	:	9960 -		9960 -	

ESTIMATED SOAK DURATION: . hrs

WATER TEMP: o . F

TARGET SPECIES CODE(S)

GEAR COND CODE

NUMBER OF NETS
SET
HAULED
LOST

IF MM DETERRENTS USED:

	ACTIVE	PASSIVE
HAULED		
LOST		

COMMENTS

SAMPLE WEIGHT MULTIPLIER ____.__

SET METHOD

Unknown	00	Visual	05
Temperature	01	Mixed	98
Bottom Contours	02	Other	99
Compass/Loran	03		
Tide/Current	04		

SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT EST METHOD CODE	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT EST METHOD CODE
1		____.__					11		____.__				
2		____.__					12		____.__				
3		____.__					13		____.__				
4		____.__					14		____.__				
5		____.__					15		____.__				
6		____.__					16		____.__				
7		____.__					17		____.__				
8		____.__					18		____.__				
9		____.__					19		____.__				
10		____.__					20		____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

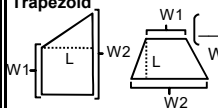
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

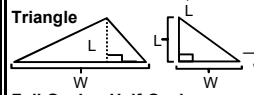
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


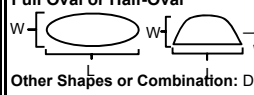
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

BOTTOM TRAWL GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBOTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER | NET NAME | NET TYPE | NET BUILDER

LINER USED?
NO 0 ____
YES 1 ____

DOORS USED?
NO 0 ____
YES 1 ____
WEIGHT OF ONE DOOR
____kg

CONSTRUCTION MATERIAL

TYPE		NET BODY	CODEND	LINER
Unknown	00			
Nylon	01			
Poly	02			
Kevlar®	03			
Spectra®	04			
Tenex®	05			
Nomex®	06			
Combination	98			
Other	99			

LENGTH MEASUREMENTS
Headrope ____ ft
Footrope/Sweep ____ ft
Ground Cable ____ fm
Bridle ____ fm

STRENGTHENER USED?
NO 0 ____ YES 1 ____

CHAFING GEAR USED?
NO 0 ____ YES 1 ____

KITE PANEL
KITE USED?
NO 0 ___ YES 1 ___
Number ____
Width ____ in
Length ____ in

FISHING CIRCLE
MESHES ____
MESH SIZE ____.____ in

COMMENTS

GROUND GEAR

TYPE		GROUND CABLE	BRIDLE/ LEG	SWEEP
Unknown	00			
Chain	01			
Cable / Wire	02			
Wrapped Cable	03			
Rock Hopper	04			
Roller	05			
Rubber Cookie	06			
Bobbin	07			
Plate Gear	08			
None	98			
Other	99			

SWEEP GEAR
Number ____
Diameter ____ in

FLOATS
Number ____
Diameter ____ in

CODEND/LINER

HUNG		CODEND	LINER
Unknown	0		
Diamond	1		
Square	2		
Square, wrapped	3		
Combination	8		

TWINE TYPE		CODEND	LINER
Unknown	0		
Single	1		
Double	2		
Single on Top/ Double on Bottom	3		
Other	9		

CODEND MESH SIZE

____ mm	____ mm
____ mm	____ mm
____ mm	____ mm
____ mm	____ mm

LINER MESH SIZE

____ mm	____ mm
____ mm	____ mm
____ mm	____ mm
____ mm	____ mm
____ mm	____ mm

GEAR MOUNTED ELECTRONICS
USED ?
NO 0 ____
YES 1 ____
NUMBER OF TRANSDUCERS
____
TYPE

Unknown	0
Wired	1
Wireless	2
Both	3

BRAND

Unknown	0
Furuno®	1
Simrad®	2
Northstar Tech	3
Notus	4
Marport	5
Scanmar	6
Combination	8
Other	9

____

LOCATION (check all that apply)

Unknown	0	☐
Headrope	1	☐
Wings	2	☐
Footrope	3	☐
Door	5	☐
Codend	6	☐
Other	9	☐

____

EXCLUDER/SEPARATOR DEVICE
USED? NO 0 ____ YES 1 ____
Type Code ____
T.E.D. EXTENSION
Mesh Size ____.____ in
(circle one) A / E

ESCAPE OUTLET
USED? NO 0 ____ YES 1 ____

TYPE

Unknown	0
Panel	1
Opening	2
Single Flap	3
Double Flap	4
Other	9

____

MESH SIZE ____ in

LENGTH
MESHES ____ OR ____ in

WIDTH
MESHES ____ OR ____ in

SHAPE Type Code ____
LOCATION Type Code ____

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

ADDITIONAL COMMENTS

FOR OFFICE USE ONLY

EXCLUDER/SEPARATOR DEVICE TYPE CODES:

00 =	Unknown	24 =	Bent Rod T.E.D.
01 =	Nordmore Grate	25 =	Conch T.E.D.
03 =	Separator Panel	26 =	Flat Bottom T.E.D.
04 =	Guiding Device	27 =	Whelk T.E.D.
05 =	Raised Footrope	28 =	Flexible T.E.D.
06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.
07 =	Double Nordmore Grate	30 =	Experimental T.E.D.
08 =	Large Mesh	31 =	Northeast Modified T.E.D.
20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.
21 =	Standard T.E.D.	98 =	Combination (Comment)
22 =	Weedless T.E.D.	99 =	Other (Comment)
23 =	Flounder T.E.D.		

ESCAPE OUTLET SHAPE CODES:

00 =	Unknown
01 =	Rectangular
05 =	Trapezoid
06 =	Square
07 =	Diamond
08 =	Triangular
09 =	Semi-Circle
11 =	Horizontal Cut
99 =	Other (Comment)

ESCAPE OUTLET LOCATION CODES:

0 =	Unknown
1 =	Net Top
2 =	Net Bottom
3 =	Net Side
4 =	Codend Top
5 =	Codend Bottom
8 =	Combination (Comment)
9 =	Other (Comment)

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

BOTTOM TRAWL HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBOTH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
☐☐☐	☐☐	☐☐☐	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____						

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED	WIRE OUT
			Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing			
BEGIN HAUL	/ /	:	9960 -		9960 -			____._____ kn	fm
BEGIN FISHING	/ /	:					WATER TEMP ____._____ oF	TARGET SPECIES	CODE
END HAUL	/ /	:	9960 -		9960 -				
GEAR ONBOARD	/ /	:	COMMENTS					VERTICAL OPENING ** ft	
FISH PUMPING								HORIZONTAL OPENING ** ft	
BEGIN	/ /	:						DOOR SPREAD ** ft	
END	/ /	:	** Only fill in if gear mounted electronics are used				SAMPLE WEIGHT MULTIPLIER ____.__ __		

SPECIES					WEIGHT		SPECIES					WEIGHT	
NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE
1		____.__					11		____.__				
2		____.__					12		____.__				
3		____.__					13		____.__				
4		____.__					14		____.__				
5		____.__					15		____.__				
6		____.__					16		____.__				
7		____.__					17		____.__				
8		____.__					18		____.__				
9		____.__					19		____.__				
10		____.__					20		____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

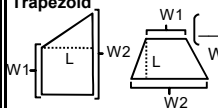
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

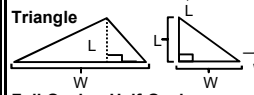
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


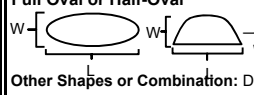
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

PAIR and SINGLE MID-WATER TRAWL GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPRG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF ☐

GEAR CODE	GEAR NUMBER	NET NAME	NET TYPE	NET BUILDER	YEAR NET MADE
☐☐☐					

GEAR FISHED
Unknown 0 ___
Pelagic 1 ___
Semi-Pelagic 2 ___
Bottom 3 ___
Other 9 ___
_____

NET
CONSTRUCTION
Unknown 0 ___
Rope/Large Mesh 1 ___
Parallel Rope Trawl 2 ___
Other 9 ___
_____
DESIGN
Unknown 0 ___
2 Seam 1 ___
4 Seam, Equal Panels 2 ___
4 Seam, Unequal Panels 3 ___
Other 9 ___
_____
NET BODY MESH SIZE
Minimum _____ . _____ in
Maximum _____ . _____ in

LINER USED?
NO 0 _____
YES 1 _____

DOORS
USED? NO 0__ YES 1__
WEIGHT _____ kg

WEIGHTS (TOTAL)
USED? NO 0__ YES 1__
WEIGHT _____ lb
Actual 1 ___
Estimated 2 ___

CONSTRUCTION MATERIAL

TYPE		NET BODY	CODEND	LINER
Unknown	00	___	___	___
Nylon	01	___	___	___
Poly	02	___	___	___
Kevlar®	03	___	___	___
Spectra®	04	___	___	___
Tenex®	05	___	___	___
Nomex®	06	___	___	___
Combination	98	___	___	___
Other	99	___	___	___
_____		_____	_____	_____

BUOYANCY/RELEASE DEVICES

USED?	NO	YES
FLOATS	0 _____	1 _____
BLOWOUT	0 _____	1 _____
KITE	0 _____	1 _____

KITE PANEL
Number _____
Length _____ in
Width _____ in

FLOATS
Number _____ Diameter _____ in

COMMENTS

Codend = "Coversheet"
Liner = "Brailer"
* Fill in only on pair trawl trips.

LENGTH MEASUREMENTS
Headrope _____ ft
Footrope/Sweep _____ ft
Top Bridle _____ fm
Wing Bridle _____ fm
Bottom Bridle _____ fm

BRIDLES NUMBER
BRIDLES/WARP _____
BRIDLES/SIDE _____
WARPS/BOAT* _____

FISHING CIRCLE
MESHES _____
MESH SIZE _____ in
STRENGTHENER USED?
NO 0 _____ YES 1 _____
CHAFING GEAR USED?
NO 0 _____ YES 1 _____

** Include all sensors on the gear

CODEND/LINER

HUNG		CODEND	LINER
Unknown	0	___	___
Diamond	1	___	___
Square	2	___	___
Square, wrapped	3	___	___
Combination	8	___	___

TWINE TYPE		CODEND	LINER
Unknown	0	___	___
Single	1	___	___
Double	2	___	___
Single on Top/ Double on Bottom	3	___	___
Other	9	___	___

CODEND MESH SIZE

_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm

LINER MESH SIZE

_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm
_____ mm	_____ mm

GEAR MOUNTED ELECTRONICS
USED ?
NO 0 _____
YES 1 _____

NUMBER OF TRANSDUCERS**
_____

TYPE
Unknown 0 ___
Wired 1 ___
Wireless 2 ___
Both 3 ___

BRAND
Unknown 0 ___
Furuno® 1 ___
Simrad® 2 ___
Northstar Tech 3 ___
Notus 4 ___
Marport 5 ___
Scanmar 6 ___
Combination 8 ___
Other 9 ___
_____

LOCATION (check all that apply)
Unknown 0 ☐
Headrope 1 ☐
Wings 2 ☐
Footrope 3 ☐
Door 5 ☐
Codend 6 ☐
Other 9 ☐
_____

EXCLUDER/SEPARATOR DEVICE
USED? NO 0 ___ YES 1 ___
Type Code _____
T.E.D. EXTENSION
Mesh Size _____ . _____ in
(circle one) A / E

ESCAPE OUTLET
USED? NO 0 ___ YES 1 ___
TYPE
Unknown 0 ___
Panel 1 ___
Opening 2 ___
Single Flap 3 ___
Double Flap 4 ___
Other 9 ___
_____
MESH SIZE _____ in

LENGTH
MESHES _____ OR _____ in

WIDTH
MESHES _____ OR _____ in

SHAPE Type Code _____

LOCATION Type Code _____

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

ADDITIONAL COMMENTS

EXCLUDER/SEPARATOR DEVICE TYPE CODES:

00 =	Unknown	24 =	Bent Rod T.E.D.
01 =	Nordmore Grate	25 =	Conch T.E.D.
03 =	Separator Panel	26 =	Flat Bottom T.E.D.
04 =	Guiding Device	27 =	Whelk T.E.D.
05 =	Raised Footrope	28 =	Flexible T.E.D.
06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.
07 =	Double Nordmore Grate	30 =	Experimental T.E.D.
08 =	Large Mesh	31 =	Northeast Modified T.E.D.
20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.
21 =	Standard T.E.D.	98 =	Combination (Comment)
22 =	Weedless T.E.D.	99 =	Other (Comment)
23 =	Flounder T.E.D.		

ESCAPE OUTLET SHAPE CODES:

00 =	Unknown
01 =	Rectangular
05 =	Trapezoid
06 =	Square
07 =	Diamond
08 =	Triangular
09 =	Semi-Circle
11 =	Horizontal Cut
99 =	Other (Comment)

ESCAPE OUTLET LOCATION CODES:

0 =	Unknown
1 =	Net Top
2 =	Net Bottom
3 =	Net Side
4 =	Codend Top
5 =	Codend Bottom
8 =	Combination (Comment)
9 =	Other (Comment)

FOR OFFICE USE ONLY

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

PAIR and SINGLE MID-WATER TRAWL HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPRH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
☐☐☐	☐☐	☐☐☐	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____						

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing
BEGIN HAUL	/ /	:	9960 -		9960 -	
BEGIN FISHING	/ /	:				
END HAUL	/ /	:				
GEAR ONBOARD	/ /	:	9960 -		9960 -	
FISH PUMPING			VERTICAL OPENING **	HORIZONTAL OPENING **	DOOR SPREAD **	
BEGIN	/ /	:				
END	/ /	:	ft	ft	ft	

NUMBER OF TURNS	TOW SPEED (kn)	WIRE OUT (fm)	WATER TEMP (o F)
	___.___		___.___

TARGET SPECIES CODE

DEPTH RANGE, HEADROPE ____ ____ fm

DISTANCE BETWEEN BOATS * ____ ____ ft

COMMENTS

*Only fill in for pair trawl trips
**Only fill in if gear mounted electronics are used

SAMPLE WEIGHT MULTIPLIER ____.__ __

SPECIES NAME	SPECIES CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE	SPECIES NAME	SPECIES CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				
		____.__							____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

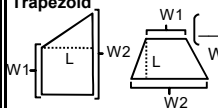
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

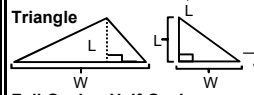
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


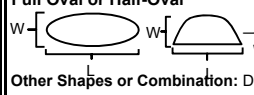
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

TWIN TRAWL GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBTTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER | NET NAME | NET TYPE | NET BUILDER

NET LOCATION
Port 1 ___
Starboard 2 ___
Other 9 ___

DOORS USED?
NO 0 _____
YES 1 _____
WEIGHT OF ONE DOOR _____kg

CONSTRUCTION MATERIAL

TYPE		NET BODY	CODEND	LINER
Unknown	00			
Nylon	01			
Poly	02			
Kevlar®	03			
Spectra®	04			
Tenex®	05			
Nomex®	06			
Combination	98			
Other	99			

_____ _____ _____

LENGTH MEASUREMENTS
Headrope _____ft
Footrope/Sweep _____ft
Ground Cable _____fm
Bridle _____fm

STRENGTHENER USED?
NO 0 _____ YES 1 _____
CHAFING GEAR USED?
NO 0 _____ YES 1 _____

LINER USED?
NO 0 _____
YES 1 _____

NETS CONNECTED?
NO 0 _____
YES 1 _____

KITE PANEL
KITE USED?
NO 0 ___
YES 1 ___
Number _____
Width _____ in
Length _____ in

FISHING CIRCLE
MESHES _____
MESH SIZE ____.____in

COMMENTS

GROUND GEAR

TYPE		GROUND CABLE	BRIDLE/ LEG	SWEEP
Unknown	00			
Chain	01			
Cable / Wire	02			
Wrapped Cable	03			
Rock Hopper	04			
Roller	05			
Rubber Cookie	06			
Bobbin	07			
Plate Gear	08			
None	98			
Other	99			

_____ _____ _____

SWEEP GEAR
Number _____
Diameter _____ in

FLOATS
Number _____
Diameter _____ in

CODEND/LINER

HUNG		CODEND	LINER
Unknown	0		
Diamond	1		
Square	2		
Square, wrapped	3		
Combination	8		

TWINE TYPE		CODEND	LINER
Unknown	0		
Single	1		
Double	2		
Single on Top/ Double on Bottom	3		
Other	9		

CODEND MESH SIZE

_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

LINER MESH SIZE

_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

GEAR MOUNTED ELECTRONICS

USED ?
NO 0 _____
YES 1 _____

NUMBER OF TRANSDUCERS
_____

TYPE

Unknown	0
Wired	1
Wireless	2
Both	3

BRAND

Unknown	0
Furuno®	1
Simrad®	2
Northstar Tech	3
Notus	4
Marport	5
Scanmar	6
Combination	8
Other	9

_____

LOCATION (check all that apply)

Unknown	0 ☐
Headrope	1 ☐
Wings	2 ☐
Footrope	3 ☐
Door	5 ☐
Codend	6 ☐
Other	9 ☐

_____

EXCLUDER/SEPARATOR DEVICE

USED? NO 0 _____ YES 1 _____

Type Code _____

T.E.D. EXTENSION

Mesh Size ____.____ in

(circle one) A / E

ESCAPE OUTLET

USED? NO 0 _____ YES 1 _____

TYPE

Unknown	0
Panel	1
Opening	2
Single Flap	3
Double Flap	4
Other	9

_____

MESH SIZE _____ in

LENGTH
MESHES _____ OR _____ in

WIDTH
MESHES _____ OR _____ in

SHAPE Type Code _____

LOCATION Type Code _____

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

ADDITIONAL COMMENTS

EXCLUDER/SEPARATOR DEVICE TYPE CODES:

00 =	Unknown	24 =	Bent Rod T.E.D.
01 =	Nordmore Grate	25 =	Conch T.E.D.
03 =	Separator Panel	26 =	Flat Bottom T.E.D.
04 =	Guiding Device	27 =	Whelk T.E.D.
05 =	Raised Footrope	28 =	Flexible T.E.D.
06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.
07 =	Double Nordmore Grate	30 =	Experimental T.E.D.
08 =	Large Mesh	31 =	Northeast Modified T.E.D.
20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.
21 =	Standard T.E.D.	98 =	Combination (Comment)
22 =	Weedless T.E.D.	99 =	Other (Comment)
23 =	Flounder T.E.D.		

ESCAPE OUTLET SHAPE CODES:

00 =	Unknown
01 =	Rectangular
05 =	Trapezoid
06 =	Square
07 =	Diamond
08 =	Triangular
09 =	Semi-Circle
11 =	Horizontal Cut
99 =	Other (Comment)

ESCAPE OUTLET LOCATION CODES:

0 =	Unknown
1 =	Net Top
2 =	Net Bottom
3 =	Net Side
4 =	Codend Top
5 =	Codend Bottom
8 =	Combination (Comment)
9 =	Other (Comment)

FOR OFFICE USE ONLY

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

TWIN TRAWL HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBTTH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	OF

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
			NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1						

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	NUMBER OF TURNS	TOW SPEED (kn)	WIRE OUT (fm)	WATER TEMP (o F)
BEGIN HAUL	/ /	:	9960 -		9960 -			.		.
BEGIN FISHING	/ /	:								
END HAUL	/ /	:	9960 -		9960 -					
GEAR ONBOARD	/ /	:								

TARGET SPECIES	CODE

NET OBSERVED
Port 1 ____
Starboard 2 ____
Both 3 ____

**Only fill in if gear mounted electronics are used

VERTICAL OPENING ** ft

HORIZONTAL OPENING ** ft

DOOR SPREAD ** ft

SAMPLE WEIGHT MULTIPLIER ___._ _

COMMENTS

SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1		____.__					11		____.__				
2		____.__					12		____.__				
3		____.__					13		____.__				
4		____.__					14		____.__				
5		____.__					15		____.__				
6		____.__					16		____.__				
7		____.__					17		____.__				
8		____.__					18		____.__				
9		____.__					19		____.__				
10		____.__					20		____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

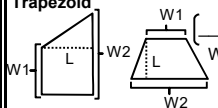
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

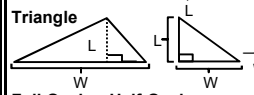
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


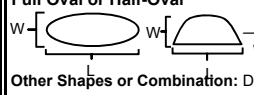
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

SCALLOP TRAWL GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER | NET NAME | NET TYPE | NET BUILDER

NET LOCATION
Port 1 ___
Starboard 2 ___
Other 9 ___

DOORS USED?
NO 0 _____
YES 1 _____
WEIGHT OF ONE DOOR _____kg

CONSTRUCTION MATERIAL

TYPE		NET BODY	CODEND	LINER
Unknown	00			
Nylon	01			
Poly	02			
Kevlar®	03			
Spectra®	04			
Tenex®	05			
Nomex®	06			
Combination	98			
Other	99			

_____ ___ ___ _____

LENGTH MEASUREMENTS
Headrope _____ft
Footrope/Sweep _____ft
Ground Cable _____fm
Bridle _____fm

STRENGTHENER USED?
NO 0 _____ YES 1 _____
CHAFING GEAR USED?
NO 0 _____ YES 1 _____

LINER USED?
NO 0 _____
YES 1 _____

NETS CONNECTED?
NO 0 _____
YES 1 _____

KITE PANEL
KITE USED?
NO 0 ___
YES 1 ___
Number _____
Width _____ in
Length _____ in

FISHING CIRCLE
MESHES _____
MESH SIZE ____.____in

COMMENTS

GROUND GEAR

TYPE		GROUND CABLE	BRIDLE/ LEG	SWEEP
Unknown	00			
Chain	01			
Cable / Wire	02			
Wrapped Cable	03			
Rock Hopper	04			
Roller	05			
Rubber Cookie	06			
Bobbin	07			
Plate Gear	08			
None	98			
Other	99			

_____ _____ _____

SWEEP GEAR
Number _____
Diameter _____ in

FLOATS
Number _____
Diameter _____ in

CODEND/LINER

HUNG		CODEND	LINER
Unknown	0		
Diamond	1		
Square	2		
Square, wrapped	3		
Combination	8		

TWINE TYPE		CODEND	LINER
Unknown	0		
Single	1		
Double	2		
Single on Top/ Double on Bottom	3		
Other	9		

CODEND MESH SIZE

_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

LINER MESH SIZE

_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

GEAR MOUNTED ELECTRONICS

USED ?
NO 0 _____
YES 1 _____

NUMBER OF TRANSDUCERS
_____

TYPE
Unknown 0 ___
Wired 1 ___
Wireless 2 ___
Both 3 ___

BRAND
Unknown 0 ___
Furuno® 1 ___
Simrad® 2 ___
Northstar Tech 3 ___
Notus 4 ___
Marport 5 ___
Scanmar 6 ___
Combination 8 ___
Other 9 ___

_____

LOCATION
(check all that apply)
Unknown 0 ☐
Headrope 1 ☐
Wings 2 ☐
Footrope 3 ☐
Door 5 ☐
Codend 6 ☐
Other 9 ☐
_____

EXCLUDER/SEPARATOR DEVICE

USED? NO 0 _____ YES 1 _____

Type Code _____

T.E.D. EXTENSION

Mesh Size ____.____ in

(circle one) A / E

ESCAPE OUTLET

USED? NO 0 _____ YES 1 _____

TYPE
Unknown 0 ___
Panel 1 ___
Opening 2 ___
Single Flap 3 ___
Double Flap 4 ___
Other 9 ___
_____

MESH SIZE _____ in

LENGTH
MESHES _____ OR _____ in

WIDTH
MESHES _____ OR _____ in

SHAPE Type Code _____

LOCATION Type Code _____

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

ADDITIONAL COMMENTS

EXCLUDER/SEPARATOR DEVICE TYPE CODES:

00 =	Unknown	24 =	Bent Rod T.E.D.
01 =	Nordmore Grate	25 =	Conch T.E.D.
03 =	Separator Panel	26 =	Flat Bottom T.E.D.
04 =	Guiding Device	27 =	Whelk T.E.D.
05 =	Raised Footrope	28 =	Flexible T.E.D.
06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.
07 =	Double Nordmore Grate	30 =	Experimental T.E.D.
08 =	Large Mesh	31 =	Northeast Modified T.E.D.
20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.
21 =	Standard T.E.D.	98 =	Combination (Comment)
22 =	Weedless T.E.D.	99 =	Other (Comment)
23 =	Flounder T.E.D.		

ESCAPE OUTLET SHAPE CODES:

00 =	Unknown
01 =	Rectangular
05 =	Trapezoid
06 =	Square
07 =	Diamond
08 =	Triangular
09 =	Semi-Circle
11 =	Horizontal Cut
99 =	Other (Comment)

ESCAPE OUTLET LOCATION CODES:

0 =	Unknown
1 =	Net Top
2 =	Net Bottom
3 =	Net Side
4 =	Codend Top
5 =	Codend Bottom
8 =	Combination (Comment)
9 =	Other (Comment)

FOR OFFICE USE ONLY

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

SCALLOP TRAWL HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSTH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
☐☐☐	☐☐	☐☐☐	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___						

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing
BEGIN HAUL	/ /	:	9960 -		9960 -	
BEGIN FISHING	/ /	:				
END HAUL	/ /	:	9960 -		9960 -	
GEAR ONBOARD	/ /	:				

NET OBSERVED: Port 1 ___ Starboard 2 ___ Both 3 ___ Aft 4 ___

TOW SPEED: _____.____ kn

WIRE OUT: fm

TARGET SPECIES: **Sea Scallops** CODE: **8009**

SEA SCALLOP CLAPPERS OBS? NO 0 ___ YES 1 ___

NUMBER OF TURNS

WATER TEMP: o ____.___ F

COMMENTS

SAMPLE WEIGHT MULTIPLIER	VERTICAL OPENING ** (ft)	HORIZONTAL OPENING ** (ft)	DOOR SPREAD ** (ft)
____.__			

** Only fill in if gear mounted electronics are used.

	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1	**Sea Scallops**	**8009**	____.__		**100**		
2			____.__				
3			____.__				
4			____.__				
5			____.__				
6			____.__				
7			____.__				
8			____.__				
9			____.__				
10			____.__				

	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
11			____.__				
12			____.__				
13			____.__				
14			____.__				
15			____.__				
16			____.__				
17			____.__				
18			____.__				
19			____.__				
20			____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET (SCALLOP)
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)
_____

ESTIMATION METHODS
01 = Actual (Spring Scale)
11 = Actual (Electronic Scale)
05 = Tally
03 = Basket or Tote Count
02 = Volume-to-Volume
13 = Count-to-Count
14 = Weight-to-Weight
07 = Cumulative Sum
12 = Trap Subsample
10 = Catch Composition Log
04 = Captain
06 = Visually Estimated
98 = Combination (Comment)
99 = Other (Comment)

DECKLOADING
Entire Deckloading Haul Range
___ ___
Number of Hauls
_____

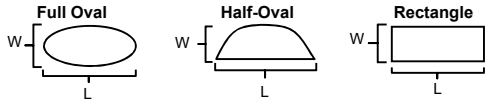
CUMULATIVE SUM
*Estimation Method used to obtain species Total Samp.Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations and use '98' on front.

	Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							_____ . ___		
2							_____ . ___		
3							_____ . ___		

VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:



Other Shapes or Combinations: Draw & label all dimensions in comments.

MAREL SCALE CALIBRATION WT
_____ . __ __

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

A1) REMAINDER VOLUME from previous haul(s)

Starboard Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

Port Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

A1) TOTAL REMAINDER VOLUME (Starboard + Port) = _____.__ __ ft³

A2) TOTAL VOLUME after current haul dumped

Starboard Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

Port Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

A2) TOTAL CATCH PILE VOLUME (Starboard + Port) = _____.__ __ ft³

A) Total Haul Vol.
_____.__ __ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ft³
____ Other(s) X ____.__ __ft³ = _____.__ __ft³

C) **Sample Weight Multiplier**
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

SCALLOP TRAWL OFF-WATCH HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSTO OBHAU 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ of ☐

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__1	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__2	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__3	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__4	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__5	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__6	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__7	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__8	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__9	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__0	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	/ /	:	9960-		9960-		

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

SCALLOP DREDGE GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSDG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐

GEAR NUMBER(s)

If the dredge is fished off the stern, check box here

AFT (A) ☐

PORT DREDGE (P)

DREDGE FRAME

FRAME TYPE
Unknown 0 ___
Standard 1 ___
TDD 2 ___
Other 9 ___

FRAME HEIGHT _____ in

FRAME WIDTH _____ ft

_____

CHAINS

USED?	NO	YES	NUMBER
ROCK	0 ___	1 ___	_____
TICKLER	0 ___	1 ___	_____

CONFIGURATION
STANDARD 1 ___
TURTLE CHAIN MAT 2 ___

TWINE TOP
MESH SIZE
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

MESHES
WIDE _____
LONG _____
HUNG
Unknown 0 _____
Diamond 1 _____
Square 2 _____
Combination 8 _____

RINGS ON WHICH TWINE TOP HANGS _____

PORT DREDGE COMMENTS

TURTLE CHAIN MAT VERIFICATION	NO	YES
Captain confirmed turtle chain mat	___	___
Intersections connected with links	___	___
All openings 14" or less	___	___

CHAIN BAG

CHAFING GEAR USED?
NO 0 ___
YES 1 ___

ROWS IN APRON _____

INSIDE RING SIZE (mm)
(5 random measurements)

TOP OF BAG	_____	_____	_____	_____	_____
BOTTOM OF BAG	_____	_____	_____	_____	_____

STARBOARD DREDGE (S)

DREDGE FRAME

FRAME TYPE
Unknown 0 ___
Standard 1 ___
TDD 2 ___
Other 9 ___

FRAME HEIGHT _____ in

FRAME WIDTH _____ ft

_____

CHAINS

USED?	NO	YES	NUMBER
ROCK	0 ___	1 ___	_____
TICKLER	0 ___	1 ___	_____

CONFIGURATION
STANDARD 1 ___
TURTLE CHAIN MAT 2 ___

TWINE TOP
MESH SIZE
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm
_____ mm _____ mm

MESHES
WIDE _____
LONG _____
HUNG
Unknown 0 _____
Diamond 1 _____
Square 2 _____
Combination 8 _____

RINGS ON WHICH TWINE TOP HANGS _____

STARBOARD DREDGE COMMENTS

TURTLE CHAIN MAT VERIFICATION	NO	YES
Captain confirmed turtle chain mat	___	___
Intersections connected with links	___	___
All openings 14" or less	___	___

CHAIN BAG

CHAFING GEAR USED?
NO 0 ___
YES 1 ___

ROWS IN APRON _____

INSIDE RING SIZE (mm)
(5 random measurements)

TOP OF BAG	_____	_____	_____	_____	_____
BOTTOM OF BAG	_____	_____	_____	_____	_____

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ADDITIONAL COMMENTS, PORT DREDGE

ADDITIONAL COMMENTS, STARBOARD DREDGE

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Expires On: XX/XX/20XX

SCALLOP DREDGE HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSDH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR CONDITION CODE
1 3 2			NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1	NO 0 / YES 1						

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing
BEGIN HAUL	/ /	:	9960 -		9960 -	
BEGIN FISHING	/ /	:				
END HAUL	/ /	:	9960 -		9960 -	
GEAR ONBOARD	/ /	:				

DREDGE OBSERVED	TOW SPEED	WIRE OUT	WATER TEMP
Port 1 / Starboard 2 / Both 3 / Aft 4	____.__ kn	fm	___.__ F (o)

TARGET SPECIES	CODE
Sea Scallops	**8009**

SEA SCALLOP CLAPPERS OBS?	GREY MEATS OR PARASITES OBS?
NO 0 / YES 1	NO 0 / YES 1

COMMENTS

SAMPLE WEIGHT MULTIPLIER ____.__ __

	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT EST METHOD CODE
1	**Sea Scallops**	**8009**	____.__		**100**		
2			____.__				
3			____.__				
4			____.__				
5			____.__				
6			____.__				
7			____.__				
8			____.__				
9			____.__				
10			____.__				
11			____.__				
12			____.__				
13			____.__				
14			____.__				
15			____.__				
16			____.__				
17			____.__				
18			____.__				
19			____.__				
20			____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET (SCALLOP)
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)
_____

ESTIMATION METHODS
01 = Actual (Spring Scale)
11 = Actual (Electronic Scale)
05 = Tally
03 = Basket or Tote Count
02 = Volume-to-Volume
13 = Count-to-Count
14 = Weight-to-Weight
07 = Cumulative Sum
12 = Trap Subsample
10 = Catch Composition Log
04 = Captain
06 = Visually Estimated
98 = Combination (Comment)
99 = Other (Comment)

DECKLOADING
Entire Deckloading Haul Range
___ ___
Number of Hauls
_____

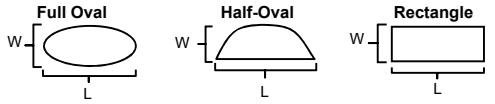
CUMULATIVE SUM
*Estimation Method used to obtain species Total Samp.Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations and use '98' on front.

	Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							_____ . ___		
2							_____ . ___		
3							_____ . ___		

VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:



Other Shapes or Combinations: Draw & label all dimensions in comments.

MAREL SCALE CALIBRATION WT
_____ . __ __

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

A1) REMAINDER VOLUME from previous haul(s)

Starboard Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

Port Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

A1) TOTAL REMAINDER VOLUME (Starboard + Port) = _____.__ __ ft³

A2) TOTAL VOLUME after current haul dumped

Starboard Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

Port Circle One: Full Oval Half-Oval Rectangle
____.__ ft X ____.__ ft X ____.__ __ ft (X 0.785) = _____.__ __ ft³
Width Length Avg. Depth (ovals) Volume

Depths: ___. ___. ___. ___. ___. / ___. ___. ___. ___. ___.

A2) TOTAL CATCH PILE VOLUME (Starboard + Port) = _____.__ __ ft³

A) Total Haul Vol.
_____.__ __ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ft³
____ Other(s) X ____.__ __ft³ = _____.__ __ft³

C) **Sample Weight Multiplier**
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

SCALLOP DREDGE OFF-WATCH HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBSDO OBHAU 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
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WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__1	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__2	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__3	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__4	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__5	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__6	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__7	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__8	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__9	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

WATCH #	WATCH	DATE	TIME	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				SEA SCALLOPS
__0	INFO	mm/dd/yy	24 hours	Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	# OF BASKETS
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

LOBSTER, CRAB, & FISH POT GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐

GEAR NUMBER(S)

NUMBER OF POTS

COMMENTS

POT CHARACTERISTICS
Shape Code _____
Side Construction Code _____
DIMENSIONS

	Length (in)	Width (in)
Top	_____	_____
Bottom	_____	_____

Height _____ in

GROUNDLINE
Length of Line Btw Pots (avg) _____ ft
Type code _____
Diameter ___/___ in

ESCAPE VENT NO YES
USED? 0 ___ 1 ___
Number _____
Shape Code _____
Length ___.___ in
Height ___.___ in
Location
Unknown 0 ___
Top 1 ___
Side 2 ___
End 3 ___
Combination 8 ___
Other 9 ___
_____

ENTRANCE
Number _____
Inside Ring Size ___.___ in
Location
Unknown 0 ___
Top 1 ___
Side 2 ___
End 3 ___
Combination 8 ___
Other 9 ___
_____

BIODEGRADABLE PANEL
USED? NO 0 ___ YES 1 ___
Attachment Type
Unknown 0 ___
Iron Hog Rings 1 ___
Degradable Plastic 2 ___
Softwood Lathe 3 ___
Uncoated Wire 4 ___
Combination 8 ___
Other 9 ___
_____

BAIT
METHOD
Unknown 0 ___
String 1 ___
Bait Bag 2 ___
Metal Ring 3 ___
Not Attached 7 ___
Combination 8 ___
Other 9 ___
_____

SURFACE SYSTEMS
# of High Flyer(s) _____
# of Buoys _____
Surface Line Length (avg) _____ ft
Type Code _____
Diameter ___/___ in
Mark? NO 0 ___ YES 1 ___

WEAK LINKS NO YES
USED ON SURFACE? 0 ___ 1 ___
Number (total) _____
Type Code _____

GANGIONS
USED? NO 0 ___ YES 1 ___
Length (avg) _____ ft
Type Code _____
Diameter ___/___ in

BUOYLINE
# of Buoyline(s) _____
Length (avg) _____ ft
Type Code _____
Percent of Type %/ %
(sinking/floating)
Diameter ___/___ in
Mark? NO 0 ___ YES 1 ___

ANCHOR(S)
USED? NO 0 ___ YES 1 ___
Number _____
Weight (total) _____ lbs
Type
Unknown 0 ___
Danforth-style 1 ___
Dead Weight 2 ___
Combination 8 ___
Other 9 ___
_____

ANCHOR LINE
Length of Line Btwn Anchor & Gangion (avg) _____ ft
Type Code _____
Diameter ___/___ in

RECTANGULAR LOBSTER TRAP
WIRE CONSTRUCTION

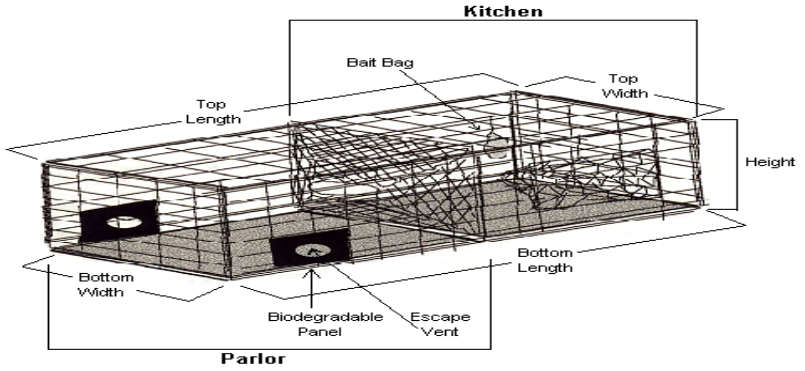

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DIAGRAM FOR REFERENCE ONLY

⊘ = Weak Link

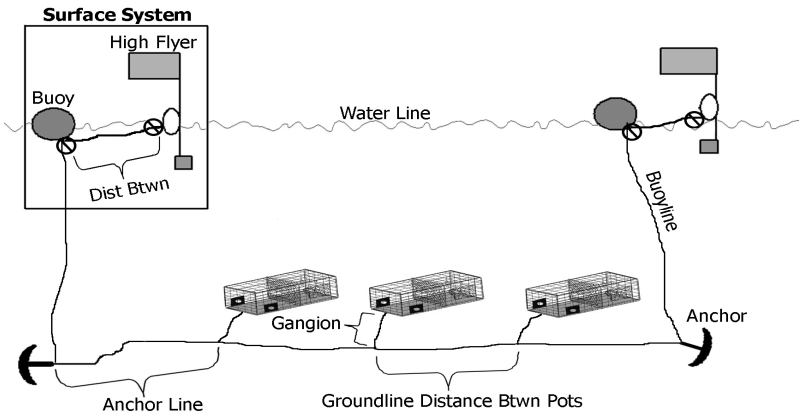

Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image modified to include additional information).

ADDITIONAL COMMENTS

FOR OFFICE USE ONLY

SHAPE CODES:

00	=	Unknown
01	=	Rectangular
02	=	Round / Oval
03	=	1/2 Round
04	=	Cone
05	=	Trapezoid
99	=	Other

SIDE CONSTRUCTION CODES:

0	=	Unknown
1	=	Wood Lathe
2	=	Plastic Coated Wire
3	=	Twine Mesh
4	=	Plastic Mesh
8	=	Combination
9	=	Other

LINE / GANGION TYPE CODES:

0	=	Unknown
1	=	Sinking / Neutrally Buoyant
2	=	Floating
8	=	Combination
9	=	Other

WEAK LINK TYPE CODES:

0	=	Unknown
1	=	Rope of Appropriate Breaking Strength
2	=	Off the Shelf
3	=	Overhand Knot
4	=	Hog Rings
8	=	Combination
9	=	Other

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

LOBSTER, CRAB, & FISH POT HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPTH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
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GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
			NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____						

SET INFO	DATE mm/dd/yy	AND TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	ESTIMATED SOAK DURATION	TARGET SPECIES	CODE(S)
SET BEGIN	/ /	:	9960 -		9960 -				
SET END	/ /	:	9960 -		9960 -		. hrs		
HAUL INFO							WATER TEMP		
HAUL BEGIN	/ /	:	9960 -		9960 -		o		
HAUL END	/ /	:	9960 -		9960 -		. F		

NUMBER OF POTS		BAIT	LBS	KIND	TYPE	COND
SET						
HAULED		#1				
LOST		#2				

COMMENTS

SAMPLE WEIGHT MULTIPLIER ____.__ __

SET METHOD

Unknown	00	Visual	05
Temperature	01	Mixed	98
Bottom Contours	02	Other	99
Compass/Loran	03		
Tide/Current	04		

SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1		____.__					11		____.__				
2		____.__					12		____.__				
3		____.__					13		____.__				
4		____.__					14		____.__				
5		____.__					15		____.__				
6		____.__					16		____.__				
7		____.__					17		____.__				
8		____.__					18		____.__				
9		____.__					19		____.__				
10		____.__					20		____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

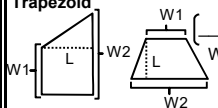
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

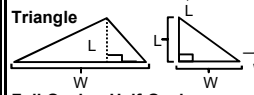
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


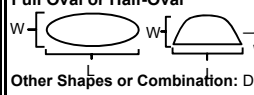
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

PURSE SEINE GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPSG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER(S)

SEINE CHARACTERISTICS:

	NET	BUNT
LENGTH	_____ fm	_____ fm
DEPTH	_____ fm	_____ fm
MESH SIZE	____ . __ __ in	____ . __ __ in
TWINE SIZE	_____ mm	_____ mm

CONSTRUCTION MATERIAL

		NET	BUNT
Unknown	00		
Nylon	01		
Poly	02		
Kevlar®	03		
Spectra®	04		
Combination	98		
Other	99		

GEAR CHARACTERISTICS:

	LENGTH	DIAMETER
FLOATLINE	_____ fm	____ . __ __ in
LEADLINE	_____ fm	____ . __ __ in
PURSE LINE	_____ fm	____ . __ __ in
LEADLINE WEIGHT		_____ lbs
ADDITIONAL WEIGHTS	No 0 ___ Yes 1 ___	
		_____ lbs

HAULING DEVICE

Unknown	0 ___	Drum	3 ___
Power Block	1 ___	Other	9 ___
Triplex	2 ___		

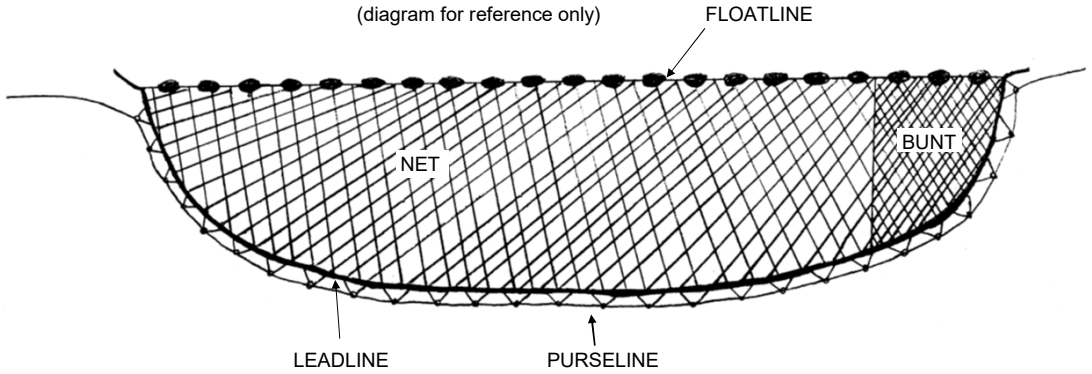
_____

PURSE RINGS:

TYPE		MATERIAL	
Unknown	0 ___	Unknown	0 ___
Round	1 ___	Steel	1 ___
Snap	2 ___	Iron	2 ___
Roller	3 ___	Alloy	3 ___
Combo	8 ___	Other	9 ___
Other	9 ___		

_____ _____

(diagram for reference only)



COMMENTS

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

PURSE SEINE SET LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPSH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
			NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____						

SET INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	**Latitude /** Bearing	Station 2	**Longitude /** Bearing	SET SPEED (kn)	TARGET SPECIES	CODE(S)
BEGIN	/ /	:	9960 -		9960 -		.		
END	/ /	:							

PLANE USED?	TIME UP	WATER TEMP (Fahrenheit)	SET BY PLANE? NO 0	SET BY PLANE? YES 1	SUCCESSFUL SET? NO 0	SUCCESSFUL SET? YES 1
NO 0 ____	:	o				
YES 1 ____	TIME DOWN :	. F	SET ON DEBRIS?		FISH LOST?	

FISH PUMPING

BEGIN	/ /	:
END	/ /	:

COMMENTS

SPECIES NAME	CODE		POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE	SPECIES NAME	CODE		POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1							11						
2							12						
3							13						
4							14						
5							15						
6							16						
7							17						
8							18						
9							19						
10							20						

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

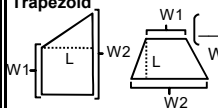
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

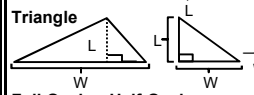
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


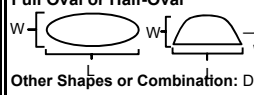
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

BEACH SEINE GEAR / BEACH ANCHORED GILLNET GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBBSG OBBSW 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER(S) | NUMBER OF NETS

BUNT CHARACTERISTICS:

USED? No (0)____ Yes(1)____

LENGTH _____ ft

HEIGHT _____ ft

MESH SIZE _____ in (circle one) A / E

MESH COUNT, VERTICAL _____

HANGING RATIO _____ /_____

TWINE SIZE _____ (circle one) A / E

STRANDS _____

COLOR CODE _____

NET MATERIAL
- Unknown 0____
- Nylon 1____
- Other 9____

_____

GEAR CHARACTERISTICS:

USED ? NO YES MEASUREMENTS

WASH NET 0___ 1___ Length _____ ft

FLOATS 0___ 1___ Dist Between _____ ft

ANCHOR (S) 0___ 1___

Number _____

Weight (total) _____ lb

Actual 1 ____
Estimated 2 ____

Type
- Unknown 0____
- Danforth-style 1____
- Dead Weight 2____
- Combination 8____
- Other 9____

_____

LEADLINE WEIGHT _____ lbs / net

MM DETERRENT DEVICES USED?

ACTIVE 0___ 1___

Number _____

Frequency _____ kHz

Brand(s)
- Unknown 0___
- Dukane 1___
- Airmar 2___
- Fumunda 3___
- Combination 8___
- Other 9___ _____

PASSIVE 0___ 1___ Number _____

WING CHARACTERISTICS:

	Net # ____	Net # ____	Net # ____	Net # ____	Net # ____
LENGTH (ft)					
HEIGHT (ft)	.	.	.	.	.
MESH SIZE (in)	.	.	.	.	.
A / E (circle)	A / E	A / E	A / E	A / E	A / E
MESH COUNT, VERTICAL					
HANGING RATIO	/	/	/	/	/
TWINE SIZE					
A / E (circle)	A / E	A / E	A / E	A / E	A / E
# STRANDS					
COLOR CODE					
NET MATERIAL					
Unknown	0_____	0_____	0_____	0_____	0_____
Nylon	1_____	1_____	1_____	1_____	1_____
Other	9_____	9_____	9_____	9_____	9_____
	_____	_____	_____	_____	_____

FLOATLINE MATERIAL
- Unknown 0 ___
- Floating (foam core) 1 ___
- Twisted polypropylene 2 ___
- Other 9 ___

_____

COLOR CODES

Unknown	00	Multi-color	07
Clear	01	Red	08
White	02	Orange	09
Pink	03	Purple	10
Black	04	Combination	98
Green	05	Other	99
Blue	06		

COMMENTS

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

BEACH SEINE / BEACH ANCHORED GILLNET HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBBSH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	MM WATCH?	CATCH?	INC TAKE?	WEATHER CODE	WIND		WAVE HEIGHT	GEAR COND CODE
			NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____	NO 0 ____ YES 1 ____		SPEED kn	DIRECTION o	ft	

HAUL INFO	DATE (mm/dd/yy)	TIME (24 hrs)	LATITUDE/LONGITUDE (DD MM.M) - LORAN (XXXXX)				EST SOAK DUR	WATER TEMP	TARGET SPECIES	CODE(S)
			Station 1	**Latitude**/Bearing	Station 2	**Longitude**/Bearing				
BEGIN	/ /	:						o		
END	/ /	:	9960-		9960-		. hrs	. F		

COMMENTS

NUMBER OF NETS	IF MM DETERRENTS USED	
	ACTIVE	PASSIVE
SET ____		
HAULED ____	HAULED ____	____
LOST ____	LOST ____	____

SPECIES					WEIGHT		SPECIES					WEIGHT	
NAME	CODE		POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE		POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE
1							11						
2							12						
3							13						
4							14						
5							15						
6							16						
7							17						
8							18						
9							19						
10							20						

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

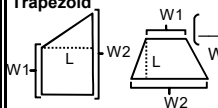
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

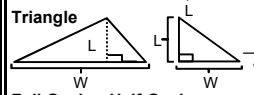
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


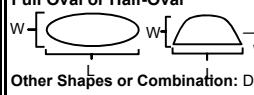
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

LONGLINE GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBLLG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR NUMBER(S)	NUMBER OF HOOKS	SECTION LENGTH	NUMBER OF SECTIONS
☐☐☐			____ . ____ nm	

MAINLINE
OF STRANDS ____
DIAMETER ___ . ___ mm
TEST ____ lbs
MATERIAL ____
COLOR ____

LEADERS
USED? NO 0 ___ YES 1 ___
LENGTH ____ ft
TEST ____ lbs
MATERIAL ____

HOOKS
BRAND | MODEL/PATTERN | SIZE

ANCHOR USED?
NO 0 ___ YES ___
WEIGHT ____ lbs

GANGIONS LENGTH COUNT
DISTANCE BETWEEN ____ ft ____ ft ____
DIAMETER ___ . ___ mm
TEST ____ lbs
MATERIAL ____
COLOR ____

BUOYLINE
# of Buoylines ____
Length (avg) ____ ft
Type Code ____
Percent of Type (sinking/floating) % / %
Diameter ____ / ____ in
Mark? NO 0 ___ YES 1 ___

GROUNDLINE NO YES
USED? 0 ___ 1 ___
Length (total) ____ ft
Type Code ____
Diameter ____ / ____ in

SURFACE SYSTEM
# of High Flyers ____
# of Buoys ____
Surface Line
Length (avg) ____ ft
Type Code ____
Diameter ____ / ____ in
Mark? NO 0 ___ YES 1 ___

WEAK LINKS NO YES
USED ON SURFACE? 0 ___ 1 ___
Number (total) ____
Type Code ____
USED ON STRING? 0 ___ 1 ___
Number (total) ____
Type Code ____

FLOATS ** USED?

TYPE	NO	YES	NUMBER	AVG HOOKS BETWEEN
Unknown	0 ___	1 ___	____	____
Polyball	0 ___	1 ___	____	____
Bullet/Daub	0 ___	1 ___	____	____
Other	0 ___	1 ___	____	____

LIGHT STICKS USED? **
NO 0 ___ YES 1 ___
COLOR ____
NUMBER ____

DROPLINE **
LENGTH ____ ft
DISTANCE BETWEEN ____ ft

SWIVELS
USED?
NO 0 ___ YES 1 ___
OF SWIVELS/GANGION ____

COUNT
RADIO BEACONS ** ____

COUNT
RADAR REFLECTORS ____

COLOR				MATERIAL	
Unknown	00	Multi-Color	07	Unknown	0
Clear	01	Red	08	Mono-filament Nylon	1
White	02	Orange	09	Cotton	2
Pink	03	Purple	10	Steel Wire	3
Black	04	Combination	98	Multi-strand Nylon	4
Green	05	Other	99	Other	9
Blue	06				

COMMENTS

** only record for Pelagic Longline

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

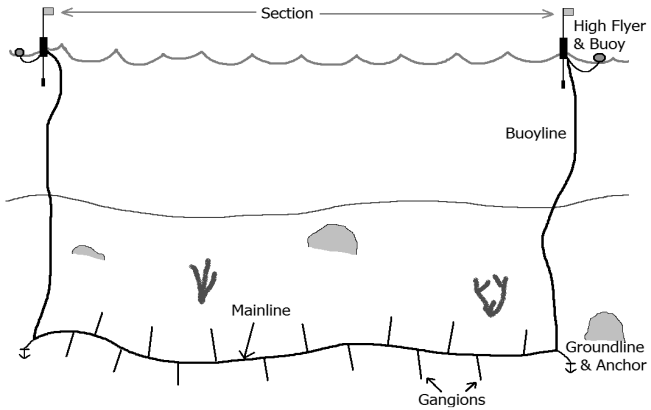
WEAK LINK TYPE CODES:

0 = Unknown
1 = Rope of Appropriate Breaking Strength
2 = Off the Shelf
3 = Overhand Knot
4 = Hog Rings
8 = Combination
9 = Other

LINE TYPE CODES:

0 = Unknown
1 = Sinking / Neutrally Buoyant
2 = Floating
8 = Combination
9 = Other

DIAGRAMS FOR REFERENCE ONLY



FOR OFFICE USE ONLY

ADDITIONAL COMMENTS

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

LONGLINE HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBLLH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED (kn)	WIND DIRECTION (o)	WAVE HEIGHT (ft)	DEPTH, HAUL BEGIN (fm)	GEAR COND CODE
			NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___						

SET/HAUL INFO		DATE mm/dd/yy	AND TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	WATER TEMP (o F)	TARGET SPECIES	CODE(S)
SET	BEGIN	/ /	:	9960 -		9960 -		___.__		
SET	END **	/ /	:	9960 -		9960 -		___.__		
HAUL	BEGIN **	/ /	:	9960 -		9960 -		___.__		
HAUL	END	/ /	:	9960 -		9960 -		___.__		

MAINLINE LENGTH **	SET METHOD	
	Unknown	00 ___
	Temperature	01 ___
	Bottom Contours	02 ___
____.___ nm	Compass/Loran	03 ___
	Tide/Current	04 ___
	Visual	05 ___
	Eddy	06 ___
	Mixed	98 ___
	Other	99 ___

ITEMS USED?

TYPE	NO	YES	NUMBER
Rattlers	0___	1___	_____
Surface Lights	0___	1___	_____
Additional Line Wts	0___	1___	_____

WEIGHT OF ADDITIONAL LINE WEIGHTS _____ lbs

NUMBER OF HOOKS
SET _____
HAULED _____
LOST _____
TENDED _____
REBAITED _____

BAIT

	LBS	KIND	TYPE	COND
#1				
#2				
#3				

SET SPEED ____.___ kn

HOOK DEPTH RANGE ____ — ____ fm

SAMPLE WEIGHT MULTIPLIER ____.__

COMMENTS

** only record for Demersal and Pelagic Longline.

SPECIES NAME	CODE	SAMP. WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1		___.__				
2		___.__				
3		___.__				
4		___.__				
5		___.__				
6		___.__				
7		___.__				
8		___.__				
9		___.__				
10		___.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

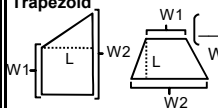
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

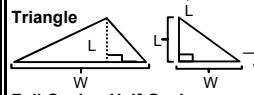
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


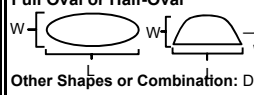
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CLAM/QUAHOG DREDGE GEAR CHARACTERISTICS LOG
NMFS FISHERIES OBSERVER PROGRAM
OBCDG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR NUMBER(S)

If the dredge is fished off the stern, check box here

AFT (A) ☐

PORT DREDGE COMMENTS

PORT DREDGE (P)

DREDGE CAGE
HEIGHT _____ in WIDTH _____ in LENGTH _____ in

SORTER USED?
NO 0 ___
YES 1 ___

CAGE BOTTOM BAR DIAMETER _____ . _____ in

BAR SPACING _____ . _____ in

NUMBER OF NOZZLES _____

CHAIN BAG
USED? NO 0 ___ YES 1 ___

AVG # OF LINKS BTW 2 RINGS _____

LINK STOCK SIZE _____ / _____

INSIDE RING SIZE (mm)
(5 random measurements)

TOP OF BAG _____ _____ _____ _____ _____

BOTTOM OF BAG _____ _____ _____ _____ _____

OUTSIDE RING SIZE _____ mm

TOWLINE

TOWLINE TYPE:
Unknown 0 ___
Single 1 ___
Bridle 2 ___
Other 9 ___

TOWLINE POSITION:
Unknown 0 ___
Forward 1 ___
Over Top of the Knife 2 ___
Other 9 ___

STARBOARD DREDGE (S)

DREDGE CAGE
HEIGHT _____ in WIDTH _____ in LENGTH _____ in

SORTER USED?
NO 0 ___
YES 1 ___

CAGE BOTTOM BAR DIAMETER _____ . _____ in

BAR SPACING _____ . _____ in

NUMBER OF NOZZLES _____

CHAIN BAG
USED? NO 0 ___ YES 1 ___

AVG # OF LINKS BTW 2 RINGS _____

LINK STOCK SIZE _____ / _____

INSIDE RING SIZE (mm)
(5 random measurements)

TOP OF BAG _____ _____ _____ _____ _____

BOTTOM OF BAG _____ _____ _____ _____ _____

OUTSIDE RING SIZE _____ mm

TOWLINE

TOWLINE TYPE:
Unknown 0 ___
Single 1 ___
Bridle 2 ___
Other 9 ___

TOWLINE POSITION:
Unknown 0 ___
Forward 1 ___
Over Top of the Knife 2 ___
Other 9 ___

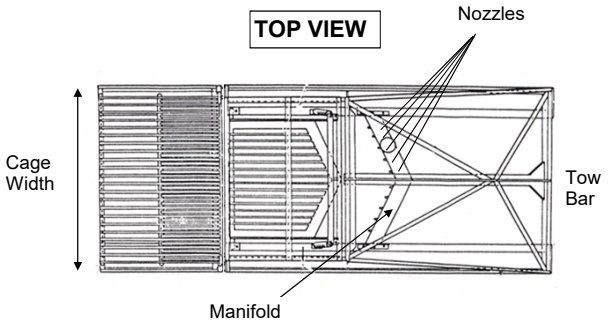
STARBOARD DREDGE COMMENTS

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

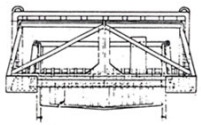
OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ OF ☐

DIAGRAMS FOR REFERENCE ONLY

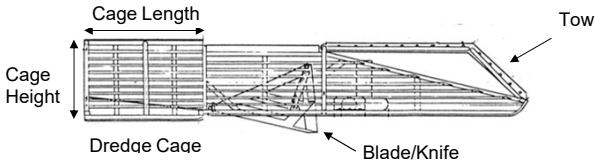
TOP VIEW

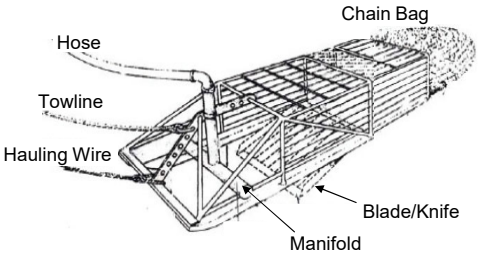


FRONT VIEW



SIDE VIEW





FOR OFFICE USE ONLY

ADDITIONAL PORT DREDGE COMMENTS

ADDITIONAL STARBOARD DREDGE COMMENTS

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CLAM/QUAHOG DREDGE HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBCDH OBHAU OBSPP 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TAKE?	WEATHER CODE	WIND SPEED kn	WIND DIRECTION o	WAVE HEIGHT ft	DEPTH, HAUL BEGIN fm	GEAR COND CODE
			NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___	NO 0 ___ YES 1 ___						

HAUL/FISHING INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1	Latitude / Bearing	Station 2	Longitude / Bearing
BEGIN HAUL	/ /	:	9960 -		9960 -	
BEGIN FISHING	/ /	:				
END HAUL	/ /	:	9960 -		9960 -	
GEAR ONBOARD	/ /	:				

WATER TEMP	TOW SPEED	WIRE OUT
o . F	. kn	fm

TARGET SPECIES CODE

CLAM/QUAHOG CLAPPERS OBS?
N0 0___
YES 1___

COMMENTS

SAMPLE WEIGHT MULTIPLIER ____.__ __

SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE	SPECIES NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT D/R	WEIGHT ESTIMATION METHOD CODE
1		____.__					11		____.__				
2		____.__					12		____.__				
3		____.__					13		____.__				
4		____.__					14		____.__				
5		____.__					15		____.__				
6		____.__					16		____.__				
7		____.__					17		____.__				
8		____.__					18		____.__				
9		____.__					19		____.__				
10		____.__					20		____.__				

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
HAUL #	

SORTING METHOD
Check all that apply

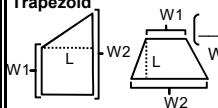
1 ☐ Picked
2 ☐ Shoveled
3 ☐ Deckloaded
4 ☐ Conveyor System
5 ☐ Pumping System
9 ☐ Other (Comment)

ESTIMATION METHODS

01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
05 = Tally	03 = Basket or Tote Count
02 = Volume-to-Volume	13 = Count-to-Count
14 = Weight-to-Weight	07 = Cumulative Sum
12 = Trap Subsample	10 = Catch Composition Log
04 = Captain	06 = Visually Estimated
98 = Combination (Comment)	
99 = Other (Comment)	

MAREL SCALE CALIBRATION WT
____ . __ __

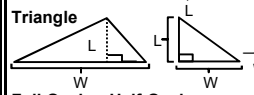
VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid


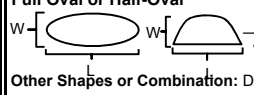
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ __ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle


____.__ ft X ____.__ ft X ____.__ __ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

Triangle


____.__ ft X ____.__ ft X ____.__ __ ft X 0.5 = _____.__ __ ft³
Width Length Avg. Depth Volume

Full Oval or Half-Oval


____.__ ft X ____.__ ft X ____.__ __ ft X 0.785 = _____.__ __ ft³
Width Length Avg. Depth Volume

Other Shapes or Combination: Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

= . ft³
Volume

___.	___.__	___.	___.	___.__	___.__	___.__	___.	___.	___.

A) Total Haul Vol.
_____.__ __ ft³

B) Total Subsample Vol.
____ Basket(s) X 1.47 ft³ = _____.__ __ ft³
____ Tote(s) X 2.65 ft³ = _____.__ __ ft³
____ Other(s) X ____.__ __ ft³ = _____.__ __ ft³

C) Sample Weight Multiplier
(A ÷ B)
_____.___ ___
>> Copy to Front >>

OTHER SUBSAMPLE TYPES

Unit Type	A) Total	B) Sample
☐ Basket ☐ Tote ☐ Weight ☐ Trap ☐ Count ☐ Other		

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range
_____ – _____

Deckloading Measurements
Total Pile Vol. Remainder Pile Vol. A) Total Haul Vol.
___.__ ft³ - ___.__ ft³ = ___.__ ft³

Number of Hauls _____

*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

BASKET OR TOTE COUNT OR TALLY
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

	Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1							____ . __		
2							____ . __		
3							____ . __		
4							____ . __		
5							____ . __		
6							____ . __		
7							____ . __		
8							____ . __		
9							____ . __		
10							____ . __		

COMMENTS :

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CLAM/QUAHOG DREDGE OFF-WATCH HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBCDO OBHAU 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	☐ of ☐

WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
1								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
2								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
3								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
4								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
5								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
6								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
7								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
8								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
9								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		
WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	**LATITUDE / LONGITUDE (DD MM.M)** - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	**Latitude** / Bearing	Station 2	**Longitude** / Bearing	
0								
FIRST HAUL ☐☐☐	BEGIN	/ /	:	9960-		9960-		
LAST HAUL ☐☐☐	END	/ /	:	9960-		9960-		

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

CATCH COMPOSITION LOG
NMFS FISHERIES OBSERVER PROGRAM
OBCMP 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF
HAUL #	

ESTIMATED PUMPING TIME ________ minutes

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ________ TIME ____ : ____

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

COMMENTS

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF
HAUL #	

BASKET # ____ TIME ___:___

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ____ TIME ___:___

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ____ TIME ___:___

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # ____ TIME ___:___

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

(d) TOTAL WEIGHT OF PUMPED CATCH (Captain's Estimate) ____ lbs

SPECIES	POUNDS (R/A)	PROPORTION OF TOTAL BASKET WEIGHT (a/b)	EXTRAPOLATED WEIGHT (lbs) (c x d)
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
TOTAL	(b) .	1	

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

DISCARD LOG
NMFS FISHERIES OBSERVER PROGRAM
OBPDQ 01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	☐ OF ☐

GEAR CODE ☐☐☐ | GEAR # ☐☐ | HAUL # ☐☐☐

Were there discards for this tow?
__ No (0)
__ Yes (1)
__ Unknown (9)

Was all catch brought to the observed vessel pumped/hauled onboard **and** completely sampled?
__ No (0)
__ Yes (1)
__ Not applicable

When the pumping/hauling process was complete were you able to see the contents of the codend/ bunt?
__ No (0)
__ Yes, all contents seen on deck (1)
__ Yes, all/some contents seen in water (2)

Why was the catch discarded on this haul? *(CHECK ALL THAT APPLY)*
☐ Unknown (0) (comment)
☐ Market (1)
☐ Regulations (2)
☐ Quality (4)
☐ Not brought onboard (5)
☐ Other (9) (comment)
☐ Not applicable

Who estimated the weight of the discarded catch?
__ Observer (1)
__ Captain (2)
__ Combination (8)
__ Not applicable

Was any of the catch pumped to another vessel?
__ No (0)
__ Yes (1)
__ Unknown (9)

Was there an observer onboard the other vessel? If yes, provide the Tripid and Haul Number.
__ No (0)
__ Yes (1)
__ Unknown (9)

TRIPID: _____

HAUL #: _____

Check off the discard event. *(CHECK ALL THAT APPLY)*
☐ Unknown (0) (comment)
☐ Operational discards (1)
☐ Tow was partially released (2)
☐ Tow was fully released (3)
☐ Discarded after being brought onboard (4)
☐ Other (9) (comment)
☐ Not applicable

REASONS NOT BROUGHT ONBOARD: Describe any reasons why the catch could not be pumped/hauled onboard.

CATCH COMPOSITION OF DISCARDED CATCH: Describe the catch composition of the discarded catch and how those determinations were made.

CHALLENGES OBSERVING THIS HAUL: Describe any challenges that occurred with observing this haul:

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

FISHERMEN'S COMMENT LOG
NMFS FISHERIES OBSERVER PROGRAM
01/01/21

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	OF
EVENT DATE (mm/dd/yy)	/ /

Record notes or details on observed tows, such as species composition, estimated or extrapolated weights, gear or fishing conditions that may be out of the ordinary. If notes pertain to a specific tow, or times, please include that information below.

VESSEL NAME	HULL NUMBER	COMMENTS CONTINUED ON BACK?
		NO 0 _____
		YES 1 _____

COMMENTS

PAPERWORK REDUCTION ACT STATEMENT: The information provided on this form will be used by the National Marine Fisheries Service (NMFS) to improve observer training under section 403(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, et seq.), which will assist NMFS to collect information that is used in analyses that support the conservation and management of living marine resources and that are required under the Magnuson-Stevens Fishery Conservation and Management Act (MSA), the Endangered Species Act (ESA), the Marine Mammal Protection Act (MMPA), the National Environmental Policy Act (NEPA), the Regulatory Flexibility Act (RFA), Executive Order 12866 (EO 12866), and other applicable law. The public reporting burden for this form is estimated to average 15 minutes per response, including the time for completing, reviewing, and transmitting the information on the form. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Amy Martins, National Marine Fisheries Service, Northeast Fisheries Science Center, Fisheries Sampling Branch, 166 Water Street, Woods Hole MA 02543-1026.
Providing the requested information is voluntary. All identifying data submitted will be handled as confidential material in accordance with NOAA Administrative Order 216-100, Protection of Confidential Fishery Statistics. Other information collected on this form may be subject to public release under various statutes. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number. This is an approved information collection under OMB Control No. 0648-0593 through XX/XX/20XX.

OMB Control No.: 0648-0593
Expires On: XX/XX/20XX

ASM Meal Reimbursement Form

East West Technical Services LLC

	Trip ID #
Monitor's Name:	
Vessel's Name:	
Captain's Name:	Phone:

Trip Information	
Departure Date:	Return Date:
Departure Time:	Return Time:
	Total Reimbursable Days:

Recipient Information ***Please Print Clearly***
Recipient's Name:
Recipient's Address:

EWTS shall compensate vessels at a rate of $40 per day (for every completed 24 hour period) to cover At-Sea Monitor accommodation and food costs while aboard the vessel for trips lasting longer than one 1 day (i.e., 24 hours).

East West Technical Services LLC
86 Mumford Road
Narragansett, RI 02882

Phone: 860-910-4957
Fax: 860-223-6005
Email: ewtsct@ewts.com

ASM
VESSEL REIMBURSEMENT FORM
TRIPS LONGER THAN 24 HOURS ONLY

TRIP ID # _____

Subsistence Reimbursement Form for Vessel Master on F/V _____

for At-Sea Monitor (name) _____

Date Sailed: _____ Time Sailed: _____

Date Landed: _____ Time Landed: _____

Total Hours at Sea: _____hrs

Total Reimbursement: _____

Reimbursement is for trips that are greater than 24 hours dock to dock. For each 24 hour period starting when the vessel sails it will be reimbursed $40. The chart below defines the reimbursement:

Total Time at Sea	Vessel Reimbursement	Total Time at Sea	Vessel Reimbursement
0 to < 24 hours (< 1 day)	$0	168 to 191.9 hours (7 days)	$280
24 to 47.9 hours (1 day)	$40	192 to 215.9 hours (8 days)	$320
48 to 71.9 hours (2 days)	$80	216 to 239.9 hours (9 days)	$360
72 to 95.9 hours (3 days)	$120	240 to 267.9 hours (10 days)	$400
96 to 119.9 hours (4 days)	$160	264 to 287.9 hours (11 days)	$440
120 to 143.9 hours (5 days)	$200	288 to 311.9 hours (12 days)	$480
144 to 167.9 hours (6 days)	$240	312 to 335.9 hours (13 days)	$520

_____ _____
Monitor's Signature Date

_____ _____
Captain's Signature Date

Please make check payable to _____

Attn: _____

F/V _____

Street _____

City, State, Zip _____

MAIL TO: AIS, Inc.
P.O. Box 2093
New Bedford, MA 02741

SECTION J
ATTACHMENTS

Captain Interview Questions

Tripid_____

Date of Trip(s)_____ Date of Interview_____

Vessel Name_____

Operator Name_____

Was the at-sea monitor on time?	Y	N
Did the at-sea monitor clearly explain his/her duties to you?	Y	N
Did the at-sea monitor give you the At-sea monitor Duties Sheet?	Y	N
Did the at-sea monitor explain their duties in regards to incidental takes of marine mammals, turtles and sea birds?	Y	N
Was there a marine mammal, turtle or seabird caught during this trip?	Y	N
Did the at-sea monitor measure the gear (i.e. codend if this is a trawl trip)?	Y	N
Did the at-sea monitor weigh the catch?	Y	N
Did the at-sea monitor take lengths (or shell heights) and biological samples (if required) from the catch?	Y	N
Did the at-sea monitor wear their PFD (life vest) while on deck?	Y	N
Did the at-sea monitor hinder your operations in any way?	Y	N
Did the at-sea monitor get along well with you and your crew?	Y	N
Is the at-sea monitor welcome on your vessel again?	Y	N
Did the at-sea monitor offer the captain a comment card?	Y	N

Trip Data Release Form

PAPERWORK REDUCTION ACT STATEMENT: The information provided on this form will be used to ensure that the data for a specific trip is not provided to a person who does not have authority to obtain that data under the confidentiality requirements of the Magnuson-Stevens Fishery Conservation and Management Act (MSA) and the Marine Mammal Protection Act (MMPA). Meeting those confidentiality requirements are critical for collecting information that is used in analyses that support the conservation and management of living marine resources and that are required under the MSA, the Endangered Species Act (ESA), the MMPA, the National Environmental Policy Act (NEPA), the Regulatory Flexibility Act (RFA), Executive Order 12866 (EO 12866), and other applicable laws. The public reporting burden for this form is estimated to average 2 minutes per response, including the time for completing, reviewing, and transmitting the information on the form. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Amy Martins, National Marine Fisheries Service, Northeast Fisheries Science Center, Fisheries Sampling Branch, 166 Water Street, Woods Hole, MA 02543-2266. Providing the requested information is required to deliver the copy of the trip to the requested location and to release the trip data. The information on this form will be kept confidential as required under Section 402(b) of the MSA (18 U.S.C. 1881a(b)) and regulations at 50 C.F.R Part 600, Subpart E. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number. This is an approved information collection under OMB Control No. 0648-0593 through XX/XX/20XX.

Policy for Data Requests of NMFS Observer-Obtained Information

1. The only individuals who may request and receive data include: the owner(s), or the captain acting as an authorized representative for the owner(s), or a vessel participating in the National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center (NEFSC) Observer Program. No other individuals may be issued any data under this policy.
2. Any data request must be submitted in writing on a form letter which may be obtained from a NMFS Observer, or the address below. Two signatures are required on this letter: that of the individual requesting the data, and that of the individual releasing the data. All letters must then be returned to the following address:

   Chief, Fisheries Sampling Branch
   National Marine Fisheries Service
   Northeast Fisheries Science Center
   166 Water Street
   Woods Hole, MA 02543-1097

   Any questions or other requests relating to data release should also be directed to the above address.
3. It should be understood that upon release of the requested data, the recipient then becomes responsible for it.
4. The individual signing the letter as the “releaser” must issue the information in compliance with this policy.
5. Data may not be released upon an oral request, or without first completing and signing the authorized release letter mentioned above.
6. Field diaries do not meet the specifications of releasable data under the policy. No field diaries may be copied for, or reviewed by, vessel owners or captains.
7. Release of data for trips in which more than one vessel participated (i.e., pair trawl trips) may only occur if both vessel owners or captains complete and sign data release letters.
8. Any requests for historical data (i.e., data that an observer has already mailed in) should be forwarded to the address above.
9. All letters should be completed in pen, not pencil.

OMB Control No: 0648-0593
Expires on: XX/XX/20XX

NMFS FISHERIES OBSERVER PROGRAM
TRIP DATA RELEASE FORM

Request Date _____/_____/_____

Observer Trip ID # _____

Vessel Name _____

USCG Doc # _____

Date Landed _____/_____/_____

_____ _____

PRINT Name Signature

PRINT Mailing Address:

_____

_____

_____

Copies Released By:_____ Date _____ Edited? Yes___ No___

(For NMFS Office Use)

TEAR AT PERFORATION AND RETAIN BELOW SECTION FOR YOUR RECORDS

The data you receive may be preliminary and not yet completely reviewed.

Observer Trip ID # _____

Date Requested _____

Mail Request To:

Chief, Fisheries Sampling Branch
National Marine Fisheries Service
Northeast Fisheries Science Center
166 Water Street
Woods Hole, MA 02543-1097

Questions or Comments:

Gina Shield
508-495-2139

Dear Vessel Owner, Operator, or Fisherman:

NOAA's National Marine Fisheries Service has selected your fishing vessel,
F/V_____
(United States Coast Guard (USCG) documentation or state # _____) to take an observer on:

- ☐ your next fishing trip;
- ☐ all fishing trips between the dates of _____, when fishing the following gear type _____, or when fishing under the following Vessel Monitoring System (VMS) declaration code _____.

You must notify the Observer Service Provider representative noted below at least twenty four (24) hours before the start of the vessel's next fishing trip. If you received this letter on the same day as a planned fishing trip, you must notify the Observer Service Provider immediately upon receiving this letter.

You must contact:

_____at phone number _____.
(*Contact name, completed by NMFS, Observer Service Provider staff, or observer and contact phone number*)

FREQUENTLY ASKED QUESTIONS:

Am I legally required to carry an observer?

Yes - if your vessel has certain federal permits, or you are participating in certain fisheries, your vessel is required to carry an observer when selected for observer coverage.

- Any vessel issued a federal permit to fish for Atlantic sea scallops, Northeast multispecies, monkfish, skates, Atlantic mackerel, squid, butterfish, scup, black sea bass, bluefish, spiny dogfish, Atlantic herring, tilefish, Atlantic deep-sea red crab, summer flounder (moratorium permit), and American lobster is required to carry an observer when selected for observer coverage.
- Any vessel participating in a state or Federal Category I or II fisheries, occurring in either state or federal waters, which appear in the Marine Mammal Protection Act List of Fisheries is required to carry an observer when selected for observer coverage. To see if your fishery is listed, please visit http://www.nmfs.noaa.gov/pr/interactions/lof/ or call the Greater Atlantic Regional Fisheries Office Protected Resources Division at 978-281-9328 for more information.
- Under the authority of the Endangered Species Act, 16 U.S.C. 1531, NMFS identifies U.S. fisheries required to take observers upon request for the purpose of learning more about sea turtle interactions. For more information visit: www.nmfs.noaa.gov/pr/species/turtles/observers.htm.

If your vessel is requested to carry an observer or selected for observer coverage, your vessel may not lawfully fish in any fishery noted above unless an observer is on board, or the observer requirement is waived.

Why am I being notified through a Selection Letter?
You have been sent this letter to tell you that your vessel has been selected for observer coverage. Please call the Observer Service Provider contact listed on this letter to discuss your fishing activity. The Observer Service Provider will either send an observer to your vessel, or will verbally waive your next trip for coverage if an observer is not available.

Are there other ways that I may be notified my vessel has been selected?
Yes, in addition to being selected for observer coverage by letter, your vessel may also be selected in person or by telephone by someone from NMFS, Observer Service Provider staff, or by an observer, acting on behalf of the Regional Administrator.

What are the Vessel Safety Requirements I must meet to carry an Observer?
A vessel must meet the requirements outlined in the most current USCG publication 'Federal Requirements for Commercial Fishing Industry Vessels' available at: http://www.fishsafe.info/. All certificates, equipment and equipment servicing, registrations, and hydrostatic releases must be current/not expired.

- USCG Commercial Fishing Vessel (CFV) Safety Examination decal or a USCG certificate of examination with proof of passing the USCG CFV Safety Examination

In order to receive a commercial fishing vessel safety decal, contact the USGC in your region at:

_____.
(*Observer Provider please include contact number of Commercial Fishing Vessel Safety exam coordinators and region)*

- Personal flotation devices/immersion suits for all crew onboard the vessel (note—observers will provide their own)
- Ring buoys or other allowable flotation
- Distress signals (emergency signaling flares – night light and smoke or 3 day/night flares < 3 miles, 3 parachute, 6 hand held, 3 smoke > 3 miles)
- Fire extinguishing equipment
- Emergency position indicating radio beacon (EPIRB) registered to the vessel, including NOAA Search and Rescue Satellite Aided Tracking registration, battery, and hydrostatic release
- Survival craft, with sufficient capacity to accommodate the total number of crew on board, including the observer(s).

Who will verify that my vessel safety requirements are up-to-date before sailing?
Once a vessel is selected for coverage, the assigned observer is required to review emergency instructions with the vessel operator and complete a pre-trip safety check of the vessel's emergency equipment prior to departing on a trip. The observer will be verifying that the equipment, registrations and certificates meet the requirements outlined above. If a vessel fails to pass the required pre-trip safety check, the regulations at 50 CFR 600.746(i) prohibit a vessel from leaving port without an observer until the deficiency has been resolved or a waiver is granted by the observer program.

What if my life raft doesn't have enough capacity to carry my assigned observer?
If selected for observer coverage, it is your responsibility to discuss the capacity of your life raft with the assigned observer or the Observer Service Provider. If your life raft is not large enough to carry the observer, you may request that the Observer Service Provider provide a Valise style life raft. Requests for Valise style life rafts may be granted, if feasible. DO NOT ASSUME THE OBSERVER WILL HAVE HIS/HER OWN LIFE RAFT. If you are selected for observer coverage and an observer cannot deploy because your vessel has inadequate life raft capacity, it is unlawful for your vessel to fish.

What are my requirements for carrying an Observer?
In addition, the regulations at § 648.14(e) also prohibit harassing, interfering, or assaulting an observer; refusing to carry an observer; failing to provide information notification, accommodations, access or reasonable assistance to an observer; and submitting false information to the observer program.

Who do I contact for more information?
Please contact Amy Martins, Branch Chief, Northeast Fisheries Observer Program, at 508-495-2266 with questions or concerns.

Sincerely,

John K. Bullard
Regional Administrator

OMB Control No.: 0648-0593
Expires on: XX/XX/20XX