

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

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

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

SET/HAUL INFO	DATE mm/dd/yy	AND 24 hours	TIME	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				WATER TEMP	TARGET SPECIES	CODE(S)
				Station 1	Latitude / Bearing	Station 2	Longitude / Bearing			
S E T	BEGIN	/ /	:	9960 -		9960 -		° F		
	END **	/ /	:	9960 -		9960 -		° F	MAINLINE LENGTH **	
H A U L	BEGIN **	/ /	:	9960 -		9960 -		° F	SET METHOD	
	END	/ /	:	9960 -		9960 -		° F	Unknown 00 ___ Temperature 01 ___ Bottom Contours 02 ___ Compass/Loran 03 ___ Tide/Current 04 ___ Visual 05 ___ Eddy 06 ___ Mixed 98 ___ Other 99 ___	

ITEMS USED?				NUMBER OF HOOKS				BAIT				SET SPEED		** only record for Demersal and Pelagic Longline.
TYPE	NO	YES	NUMBER	SET		LBS	KIND	TYPE	COND	_____ kn	HOOK DEPTH			
Rattlers	0	1	_____	HAULED	_____					_____	RANGE			
Surface Lights	0	1	_____	LOST	_____					_____	_____ fm			
Additional Line Wts	0	1	_____	TENDED	_____	SAMPLE WEIGHT		COMMENTS						
WEIGHT OF ADDITIONAL LINE WEIGHTS _____ lbs				REBAITED	_____	MULTIPLIER								

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

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

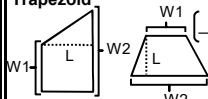
**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

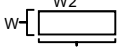
Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

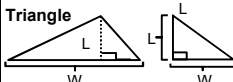
CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  


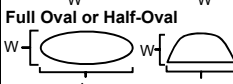
$$\left( \frac{\text{Width 1} + \text{Width 2}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  


$$\text{Width} \times \text{Length} \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  


$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  


$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**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.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range _____	Deckloading Measurements			
	Total Pile Vol. _____	Remainder Pile Vol. _____		
	A) Total Haul Vol. _____			
	_____ ft <sup>3</sup> - _____ ft <sup>3</sup> = _____ ft <sup>3</sup>			
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				