

PAIR and SINGLE MID-WATER TRAWL HAUL LOG
 NMFS FISHERIES OBSERVER PROGRAM
 OBPRH OBHAU OBSPP 05/01/13

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

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	
HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED _____ kn	WIRE OUT _____ ft	WATER TEMP _____ ° F		
BEGIN HAUL	/ /	:	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	TARGET SPECIES CODE					
BEGIN FISHING	/ /	:					DEPTH RANGE, HEADROPE _____ ft					
END HAUL	/ /	:										
GEAR ONBOARD	/ /	:	9960 -		9960 -							
FISH PUMPING			VERTICAL ** OPENING	HORIZONTAL ** OPENING	DOOR SPREAD **		DISTANCE BETWEEN BOATS * _____ ft					
BEGIN	/ /	:										
END	/ /	:										

COMMENTS

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

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

**CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM**

05/01/13

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

SORTING METHOD	ESTIMATION METHODS
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 07 = Cumulative Sum
4 <input type="checkbox"/> Conveyor System	04 = Captain
5 <input type="checkbox"/> Pumping System	06 = Visually Estimated
8 <input type="checkbox"/> Combination (Comment)	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	98 = Combination (Comment)
	99 = Other (Comment)

MAREL SCALE
FIT VALUE

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

Trapezoid

$$\left(\frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} = \text{Volume}$$

Rectangle

$$W \times L \times \text{Avg. Depth} = \text{Volume}$$

Triangle

$$\left(\frac{W}{2} \right) \times L \times \text{Avg. Depth} = \text{Volume}$$

Full Oval or Half-Oval

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume}$$

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

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 WGTS.	TOTAL SAMPLE WGT.	# OF SAMPLE UNITS	AVG. WGT. PER UNIT	TOTAL # OF UNITS	TOTAL EST. WGT.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

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.

_____	_____	_____	_____	_____	_____	_____	_____	_____
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A) Total Haul Vol. _____ ft ³	B) Total Subsample Vol. _____ Basket(s) X 1.47 ft ³ = _____ ft ³ _____ Tote(s) X 2.65 ft ³ = _____ ft ³ _____ Other(s) X _____ ft ³ = _____ ft ³	C) Sample Weight Multiplier (A ÷ B) _____ >> Copy to Front >>
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DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range _____ - _____	Deckloading Measurements Total Pile Vol. _____ ft ³ Remainder Pile Vol. _____ ft ³ A) Total Haul Vol. _____ ft ³
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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 SAMP. WGT.	*EST. METH.	WGT. PER HAUL
1				
2				
3				
4				
5				

COMMENTS :