

TRAWL HAUL LOG
NMFS FISHERIES AT-SEA MONITORING PROGRAM
ASMOTH ASMHAU ASMSPP 05/01/13

OBS/TRIPID	
DATE LANDED mm/yy	/
PAGE #	of

GEAR CODE [][]	GEAR NUMBER [][]	HAUL NUMBER [][][]	HAUL OBSERVED? YES <input type="checkbox"/> NO <input type="checkbox"/>	INC TAKE? YES <input type="checkbox"/> NO <input type="checkbox"/>
WEATHER CODE	WAVE HEIGHT ft	GEAR COND CODE	TARGET SPECIES 1	TARGET SPECIES 2
HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE/LONGITUDE (DD MM.M)	
BEGIN HAUL	/ /	:	LATITUDE	LONGITUDE or (STAT AREA)*
END HAUL	/ /	:		

COMMENTS * Enter only if latitude/longitude coordinates are not available

SAMPLE WEIGHT MULTIPLIER

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

**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

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						____. ____		

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.

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			
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 :