

**CLAM/QUAHOG DREDGE HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBCDH OBHAU OBSPP 05/01/13**

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	
HAUL/FISHING INFO	DATE mm/dd/yy	AND TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				WATER TEMP _____ ° F	TOW SPEED _____ kn	WIRE OUT _____ fm			
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	TARGET SPECIES _____ CODE _____					
BEGIN FISHING	/ /	:	CLAM/QUAHOG CLAPPERS OBS?									
END HAUL	/ /	:	9960 -		9960 -		NO 0 ____ YES 1 ____					
GEAR ONBOARD	/ /	:										

COMMENTS

SAMPLE WEIGHT MULTIPLIER  
 \_\_\_\_\_

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

**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 <sup>3</sup>	B) Total Subsample Vol. _____ 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>	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 <sup>3</sup> Remainder Pile Vol. _____ ft <sup>3</sup> A) Total Haul Vol. _____ ft <sup>3</sup>
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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 :