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?	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
BEGIN HAUL	/ /	:
BEGIN FISHING	/ /	:
END HAUL	/ /	:
GEAR ONBOARD	/ /	:
FISH PUMPING		
BEGIN	/ /	:
END	/ /	:

LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)

Station 1	**Latitude /** Bearing	Station 2	**Longitude /** Bearing
9960 -		9960 -	
9960 -		9960 -	

VERTICAL OPENING **	HORIZONTAL OPENING **	DOOR SPREAD **
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	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
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OMB Control No.: 0648-0593
Expires on: 11/30/2015

CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM
05/01/13

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

SORTING METHOD

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

ESTIMATION METHODS

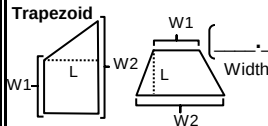
01 = Actual (Spring Scale) 11 = Actual (Electronic Scale)
05 = Tally 03 = Basket or Tote Count
02 = Volume-to-Volume 07 = Cumulative Sum
04 = Captain
06 = Visually Estimated
10 = Catch Composition Log
98 = Combination (Comment)
99 = Other (Comment)

MAREL SCALE FIT VALUE
_____

VOLUME-TO-VOLUME

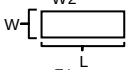
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid



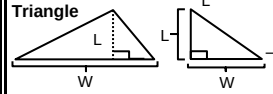
(____.__ ft + ____.__ ft) X ___.__ ft X ___.__ ft X 0.5 = _____.__ __ ft³
Width 1 Width 2 Length Avg. Depth Volume

Rectangle



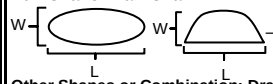
____.__ ft X ____.__ ft X ____.__ ft = _____.__ __ ft³
Width Length Avg. Depth Volume

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. = _____.__ __ ft³
Volume

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.

____.__	____.__	____.__	____.__	____.__	____.__	____.__	____.__	____.__	____.__

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 >>

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 SAMP. WGT.	*EST. METH.	WGT. 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 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							____.__		

COMMENTS :

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