

PAIR and SINGLE MID-WATER TRAWL HAUL LOG

NMFS FISHERIES OBSERVER PROGRAM

OBPRH OBHAU OBSPP 01/01/10

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

COMMENTS

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

SPECIES		CATCH DISP (K/D)	POUNDS	DISP CODE	WEIGHT		SPECIES		CATCH DISP (K/D)	POUNDS	DISP CODE	WEIGHT	
NAME	CODE				D/R	ESTIMATION METHOD CODE	NAME	CODE				D/R	ESTIMATION METHOD CODE

**CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM**

01/01/10

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

SORTING METHOD	
Picked	1
Shoveled	2
Deckloaded	3
Conveyor System	4
Combination (comment)	8
Other (comment)	9
HAUL NUMBERS WHERE DECKLOADING OCCURRED	

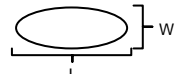
ESTIMATION METHOD(S)	
Weighed (Actual)	01
Volume-to-Volume	02
Basket or Tote Count	03
Captain	04
Tally	05
Visually Estimated	06
Cumulative Sum	07
Combination (comment)	98
Other (comment)	99

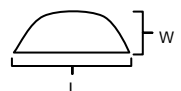
TALLY/BASKET/TOTE COUNTS			
Unit Types: B = basket, T = tote, I = individual (tally)			
Species:	Unit Type	Avg Weight/Unit	# of Units
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	

VOLUME TO VOLUME METHOD

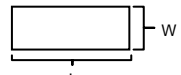
VOLUME MEASUREMENTS

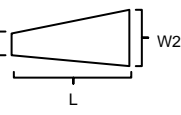
PILE ON DECK - as seen from above

Oval  _____ ft X _____ ft X _____ ft X 3.14 / 4 = _____ ft³
Length Width Depth** π

Half-Oval  _____ ft X _____ ft X _____ ft X 3.14 / 4 = _____ ft³
Length Width Depth** π

CHECKER PEN

Rectangle  _____ ft X _____ ft X _____ ft = _____ ft³
Length Width Depth**

Trapezoid  _____ ft X $\left[\frac{\text{Width1} + \text{Width2}}{2} \right]$ X _____ ft = _____ ft³
Length Width1 Width2 Depth**

OTHER SHAPE or COMBINATION - draw and show all dimensions below Volume = _____ ft³

****10 random depths from throughout pile: (Pile on deck: include one depth of 0.0ft)**

_____ ft	_____ ft	_____ ft	_____ ft	_____ ft	_____ ft	_____ ft	_____ ft	_____ ft	_____ ft
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A) # of Subsampling Containers Used	B) Volume of One Container Basket <u> </u> 1.47 ft ³ Tote <u> </u> 2.65 ft ³ Other: <u> </u> ft ³	C) Total Subsample Volume (A x B) <u> </u> ft ³	D) Sample Weight Multiplier (Tot. Vol / C) <u> </u>	E) Percent Subsampled (C / Tot. Vol) x 100 <u> </u> %
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COMMENTS

SPECIES	SUBSAMP WGT (lbs)