

TRAWL HAUL LOG
NMFS FISHERIES OBSERVER PROGRAM
OBOTH OBHAU OBSPP 01/01/10

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	ON-EFFORT? NO 0 <input type="text"/> YES 1 <input type="text"/>	CATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	INC TAKE? NO 0 <input type="text"/> YES 1 <input type="text"/>	WEATHER CODE	WIND SPEED <input type="text"/> kn DIRECTION <input type="text"/> °	WAVE HEIGHT <input type="text"/> ft	DEPTH, HAUL BEGIN <input type="text"/> fm	GEAR COND CODE	
HAUL INFO BEGIN HAUL	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED <input type="text"/> kn	WIRE OUT <input type="text"/> fm			
	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing						
BEGIN FISHING	/ /	:					WATER TEMP <input type="text"/> ° <input type="text"/> F	TARGET SPECIES		CODE		
END HAUL	/ /	:	9960 -		9960 -							
GEAR ONBOARD	/ /	:	COMMENTS							VERTICAL OPENING ** <input type="text"/> ft		
FISH PUMPING										HORIZONTAL OPENING ** <input type="text"/> ft		
BEGIN	/ /	:								DOOR SPREAD ** <input type="text"/> ft		
END	/ /	:										

** 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 #	

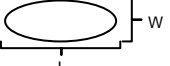
SORTING METHOD		ESTIMATION METHOD(S)	
Picked	1	Weighed (Actual)	01
Shoveled	2	Volume-to-Volume	02
Deckloaded	3	Basket or Tote Count	03
Conveyor System	4	Captain	04
Combination (comment)	8	Tally	05
Other (comment)	9	Visually Estimated	06
		Cumulative Sum	07
		Combination (comment)	98
		Other (comment)	99

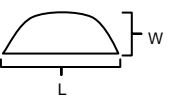
TALLY/BASKET/TOTE COUNTS			
Unit Types: B = basket, T = tote, I = individual (tally)			
Species:	Unit Type	Avg Weight/Unit	# of Units
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	
		lbs	

VOLUME TO VOLUME METHOD

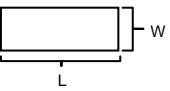
VOLUME MEASUREMENTS

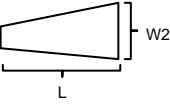
PILE ON DECK - as seen from above

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
----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

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

COMMENTS

SPECIES	SUBSAMP WGT (lbs)