

**CATCH ESTIMATION WORKSHEET
NMFS FISHERIES OBSERVER PROGRAM**

05/01/16

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

SORTING METHOD Check all that apply	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	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE
CALIBRATION WT**

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 Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight	
1						_____			
2						_____			
3						_____			
4						_____			
5						_____			
6						_____			
7						_____			
8						_____			
9						_____			
10						_____			

VOLUME-TO-VOLUME
CATCH PILE SHAPE AS SEEN FROM ABOVE:

Trapezoid

$$\left(\frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

Rectangle

$$W \times L \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

Triangle

$$\left(\frac{W}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

Full Oval or Half-Oval

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

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.

COMMENTS :

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 >>
OTHER SUBSAMPLE TYPES	Unit Type	A) Total
	<input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	B) Sample

DECKLOADING and CUMULATIVE SUM

Entire Deckloading Haul Range	Deckloading Measurements		
	Total Pile Vol.	Remainder Pile Vol.	A) Total Haul Vol.
	_____ ft ³	_____ ft ³	= _____ 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 Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				