

01/01/08

**NMFS FISHERIES OBSERVER PROGRAM  
CATCH ESTIMATION WORKSHEET**

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

FISHING METHOD		CATCH ESTIMATION METHOD		** CATCH SHAPE, MEASUREMENTS & VOLUME													
Picked	1	Weighed (Actual)	1	Comment and draw catch shape.													
Shoveled	2	Volume to Volume	2														
Deckloaded	3	Basket or Tote Count	3														
Conveyor System	4	Captain	4	Rect./square (L x W x D)	1	L	_____	W <sub>1</sub>	_____	D	_____	=	V	_____	ft <sup>3</sup>		
Combination (comment)	8	Tally	5	Trapezoidal ((W <sub>1</sub> + W <sub>2</sub> )/2 x L x D)	2	L	_____	W <sub>1</sub>	_____	W <sub>2</sub>	_____	D	_____	=	V	_____	ft <sup>3</sup>
Other (comment)	9	Visually Estimated	6	Triangular (L x W / 2 x D)	3	L	_____	W	_____	D	_____	=	V	_____	ft <sup>3</sup>		
		Cumulative Sum Method	7	Circular ( $\pi r^2 \times D$ )	4	r	_____	D	_____	=	V	_____	ft <sup>3</sup>				
HAUL NUMBERS WHERE		Combination (comment)	8	Oval ( $r_1 \times r_2 \times \pi \times D$ )	5	r <sub>1</sub>	_____	r <sub>2</sub>	_____	D	_____	=	V	_____	ft <sup>3</sup>		
DECKLOADING OCCURRED		Other (comment)	9	Other/Combination (comment)	9												
				Are measurements the same as previous haul? NO 0 YES 1													
** # SUBSAMPLING CONTAINERS USED	** VOL SUBSAMPLE CONTAINER	** TOTAL SUBSAMPLE VOLUME =	** SAMPLE WEIGHT MULTIPLIER	** PERCENT SUBSAMPLED	<b>Volume of Subsample</b>	<b>Circular Shapes</b>											
Orange Basket	1 1.47 ft <sup>3</sup>	# subsample containers used x	total catch vol / total subsamp vol	(total subsamp vol / total catch )	1 Basket = 1.47 ft <sup>3</sup>	r = radius											
Fish Tote	2 2.65 ft <sup>3</sup>	volume of a subsample container		( vol ) x 100	2 Baskets = 2.94 ft <sup>3</sup>	r = diameter / 2											
Other	9 ft <sup>3</sup>			%	3 Baskets = 4.41 ft <sup>3</sup>	r <sub>1</sub> = short radius											
					4 Baskets = 5.88 ft <sup>3</sup>	r <sub>2</sub> = long radius											
					5 Baskets = 7.35 ft <sup>3</sup>	$\pi = 3.14$											
** SPECIES	** SUBSAMP WGT (lbs)	** SPECIES	** SUBSAMP WGT (lbs)	COMMENTS				<b>Angular Shapes</b>	<b>Trapezoidal Shapes</b>								
								A = area	W <sub>1</sub> = short width								
								V = volume	W <sub>2</sub> = long width								
								W = width									
								D = catch depth									

\*\* Required only when using the volume to volume method.