

**LOBSTER, CRAB, & FISH POT HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPTH OBHAU OBSPP 05/01/16**

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

|                                   |                                |                                |  |   |   |  |              |   |  |   |                |
|-----------------------------------|--------------------------------|--------------------------------|--|---|---|--|--------------|---|--|---|----------------|
| GEAR CODE<br><input type="text"/> | GEAR #<br><input type="text"/> | HAUL #<br><input type="text"/> | HAUL OBS?<br>NO 0 <input type="text"/><br>YES 1 <input type="text"/> | ON-EFFORT?<br>NO 0 <input type="text"/><br>YES 1 <input type="text"/> | CATCH?<br>NO 0 <input type="text"/><br>YES 1 <input type="text"/> | INC TAKE?<br>NO 0 <input type="text"/><br>YES 1 <input type="text"/> | WEATHER CODE | WIND<br>SPEED <input type="text"/> kn<br>DIRECTION <input type="text"/> o | WAVE HEIGHT<br><input type="text"/> ft | DEPTH,<br>HAUL BEGIN<br><input type="text"/> fm | GEAR COND CODE |
|-----------------------------------|--------------------------------|--------------------------------|--|---|---|--|--------------|---|--|---|----------------|

|           |                                    |  |                    |           |                     |                          |                |         |  |
|-----------|------------------------------------|--|--------------------|-----------|---------------------|--------------------------|----------------|---------|--|
| SET INFO  | DATE AND TIME<br>mm/dd/yy 24 hours | LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) |                    |           |                     | ESTIMATED SOAK DURATION  | TARGET SPECIES | CODE(S) |  |
| S BEGIN   | / / :                              | Station 1                                      | Latitude / Bearing | Station 2 | Longitude / Bearing | <input type="text"/> hrs | NUMBER OF POTS | BAIT    |  |
| E END     | / / :                              | 9960 -   |                    | 9960 -    |                     |                          |                |         |  |
| T BEGIN   | / / :                              | 9960 -   |                    | 9960 -    |                     | <input type="text"/> F   | LBS            | KIND    |  |
| T END     | / / :                              | 9960 -   |                    | 9960 -    |                     |                          |                |         |  |
| HAUL INFO |                                    | WATER TEMP                                     |                    |           |                     | SET                      |                |         |  |
| H BEGIN   | / / :                              | 9960 -   |                    | 9960 -    |                     | HAULED                   | #1             |         |  |
| A END     | / / :                              | 9960 -   |                    | 9960 -    |                     | LOST                     | #2             |         |  |
| U BEGIN   | / / :                              | 9960 -   |                    | 9960 -    |                     |                          |                |         |  |
| L END     | / / :                              | 9960 -   |                    | 9960 -    |                     |                          |                |         |  |

|          |   |
|----------|---|
| COMMENTS | SET METHOD  |
|          | Unknown 00 <input type="text"/> Visual 05 <input type="text"/>        |
|          | Temperature 01 <input type="text"/> Mixed 98 <input type="text"/>     |
|          | Bottom Contours 02 <input type="text"/> Other 99 <input type="text"/> |
|          | Compass/Loran 03 <input type="text"/>                                 |
|          | Tide/Current 04 <input type="text"/>                                  |

|                          |
|--------------------------|
| SAMPLE WEIGHT MULTIPLIER |
| <input type="text"/>     |

| SPECIES |      |                   |        | WEIGHT    |     |                        |      | SPECIES |                   |        |           | WEIGHT |                        |  |  |
|---------|------|-------------------|--------|-----------|-----|------------------------|------|---------|-------------------|--------|-----------|--------|------------------------|--|--|
| NAME    | CODE | SUB-SAMPLE WEIGHT | POUNDS | DISP CODE | D/R | ESTIMATION METHOD CODE | NAME | CODE    | SUB-SAMPLE WEIGHT | POUNDS | DISP CODE | D/R    | ESTIMATION METHOD CODE |  |  |
| 1       |      |                   |        |           |     |                        | 11   |         |                   |        |           |        |                        |  |  |
| 2       |      |                   |        |           |     |                        | 12   |         |                   |        |           |        |                        |  |  |
| 3       |      |                   |        |           |     |                        | 13   |         |                   |        |           |        |                        |  |  |
| 4       |      |                   |        |           |     |                        | 14   |         |                   |        |           |        |                        |  |  |
| 5       |      |                   |        |           |     |                        | 15   |         |                   |        |           |        |                        |  |  |
| 6       |      |                   |        |           |     |                        | 16   |         |                   |        |           |        |                        |  |  |
| 7       |      |                   |        |           |     |                        | 17   |         |                   |        |           |        |                        |  |  |
| 8       |      |                   |        |           |     |                        | 18   |         |                   |        |           |        |                        |  |  |
| 9       |      |                   |        |           |     |                        | 19   |         |                   |        |           |        |                        |  |  |
| 10      |      |                   |        |           |     |                        | 20   |         |                   |        |           |        |                        |  |  |

**CATCH ESTIMATION WORKSHEET  
NMFS FISHERIES OBSERVER PROGRAM**

05/01/16

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

|   |                            |                                |
|---|----------------------------|--------------------------------|
| <b>SORTING METHOD</b><br>Check all that apply | <b>ESTIMATION METHODS</b>  |                                |
| 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**  
\_\_\_\_\_

| <b>BASKET OR TOTE COUNT OR TALLY</b>                                  |            |             |                                |                     |                   |                      |                  |                   |  |
|---|------------|-------------|--------------------------------|---------------------|-------------------|----------------------|------------------|-------------------|--|
| **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 :**

|  |  |   |
|--|--|---|
| <b>A) Total Haul Vol.</b><br>_____ ft <sup>3</sup> | <b>B) Total Subsample Vol.</b><br>_____ Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup><br>_____ Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup><br>_____ Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup> | <b>C) Sample Weight Multiplier</b><br>(A ÷ B)<br>_____<br>>> Copy to Front >> |
| <b>OTHER SUBSAMPLE TYPES</b>                       | <b>Unit Type</b>   | <b>A) Total</b>   |
|  | <input type="checkbox"/> Basket <input type="checkbox"/> Tote<br><input type="checkbox"/> Weight <input type="checkbox"/> Trap<br><input type="checkbox"/> Count <input type="checkbox"/> Other                                    | <b>B) Sample</b>  |

**DECKLOADING and CUMULATIVE SUM**

|                               |                          |                       |                         |
|-------------------------------|--------------------------|-----------------------|-------------------------|
| Entire Deckloading Haul Range | Deckloading Measurements |                       |                         |
|                               | Total Pile Vol.          | Remainder Pile Vol.   | A) Total Haul Vol.      |
|                               | _____ ft <sup>3</sup>    | _____ ft <sup>3</sup> | = _____ ft <sup>3</sup> |

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       |            |                      |              |                 |