

**COMMITTEE OF AGE READING EXPERTS
AGE STRUCTURE EXCHANGE INVOICE**

| | | | |
|--------------------|--------------------|-------------|---------------------------------|
| EXCHANGE ID NO. | 14-009 | SPECIES | Shortaker rockfish |
| EXCHANGE YEAR | 2015 | AREA | Aleutian Islands/Canadian water |
| ORIGINATING AGENCY | AFSC | STRUCTURE | Otolith |
| COORDINATOR* | Charles Hutchinson | TECHNIQUE | Thin section |
| COOPERATOR(S) | ADFG and DFO | PURPOSE | set ageing criteria/calibrate |
| DATE INITIATED | Spring 2014 | SAMPLE n= | 54 |
| | | NO. READERS | 4 |

| SPECIMEN NUMBER | CAPTURE (MM/DD/YY) | AGENCY | AGENCY | AGENCY | AGENCY | AGENCY | ORIGINAL SAMPLE ID |
|-----------------|--------------------|--------|--------|--------|-------------|--------|--------------------|
| | | NMFS | DFO | ADFG | ADFG (2010) | | |
| 1 | Aug. 8 2008 | 41 | 57 | | | | 114 |
| 2 | Aug. 8 2008 | 27 | 32 | | | | 115 |
| 3 | Aug. 8 2008 | 38 | 45 | | | | 117 |
| 4 | Aug. 8 2008 | 28 | 136 | | | | 118 |
| 5 | Aug. 8 2008 | 25 | 60 | | | | 119 |
| 6 | Aug. 8 2008 | 27 | 46 | | | | 122 |
| 7 | Aug. 8 2008 | 30/38 | 73 | | | | 123 |
| 8 | Aug. 8 2008 | 31 | 47 | | | | 124 |
| 9 | Aug. 8 2008 | 76 | 80 | | | | 126 |
| 10 | Aug. 8 2008 | 36 | 38 | | | | 127 |
| 11 | Aug. 8 2008 | 33 | 56 | | | | 128 |
| 12 | Aug. 8 2008 | 33 | 40 | | | | 129 |
| 13 | Aug. 8 2008 | 31 | 73 | | | | 130 |
| 14 | Aug. 8 2008 | 24 | 24 | | | | 132 |
| 15 | Aug. 8 2008 | 44 | 52 | | | | 133 |
| 16 | Aug. 8 2008 | 40 | 51 | | | | 137 |
| 17 | Aug. 8 2008 | 47 | 75 | | | | 139 |
| 18 | Aug. 8 2008 | 50 | 79 | | | | 141 |
| 19 | Aug. 8 2008 | 71 | 127 | | | | 143 |
| 20 | Aug. 8 2008 | 67 | 75 | | | | 144 |
| 21 | Aug. 8 2008 | 32 | 11 | | | | 145 |
| 22 | Aug. 8 2008 | 67 | 85 | | | | 146 |
| 23 | Aug. 8 2008 | 26 | 30 | | | | 147 |
| 24 | Aug. 8 2008 | 28 | 115 | | | | 148 |
| 25 | Aug. 8 2008 | 30 | 23 | | | | 149 |
| 26 | Aug. 8 2008 | | | | | | 84 |
| 27 | Aug. 8 2008 | | | | | | 87 |
| 28 | Aug. 8 2008 | | | | | | 89 |
| 29 | Aug. 8 2008 | | | | | | 94 |
| 30 | Aug. 8 2008 | | | | | | 95 |
| 31 | Aug. 8 2008 | | | | | | 97 |
| 32 | Aug. 8 2008 | 45 | | | | | 98 |
| 33 | Aug. 8 2008 | | | | | | 99 |
| 34 | june 8 2004 | 104 | 115 | | 133 | | 1432004_1 |

| | | | | | | | |
|----|--------------|-----|-----|--|-----|--|-------------|
| 35 | june 11 2004 | 14 | 9 | | 15 | | 1432004_9 |
| 36 | june 11 2004 | 14 | 10 | | 19 | | 1432004_12 |
| 37 | june 11 2004 | 14 | 7 | | 16 | | 1432004_21 |
| 38 | june 18 2004 | 21 | 14 | | 21 | | 1432004_51 |
| 39 | june 18 2004 | 27 | 25 | | 27 | | 1432004_56 |
| 40 | june 28 2004 | 52 | 68 | | 62 | | 1432004_108 |
| 41 | july 1 2004 | 19 | 47 | | 22 | | 1432004_131 |
| 42 | july 1 2004 | 16 | 32 | | 11 | | 1432004_136 |
| 43 | july 3 2004 | 22 | 20 | | 11 | | 1432004_161 |
| 44 | july 4 2004 | 19 | 30 | | 37 | | 1432004_171 |
| 45 | aug. 2 2004 | 43 | 90 | | 41 | | 1432004_318 |
| 46 | june 26 2006 | 19 | 17 | | 18 | | 1432006_11 |
| 47 | june 26 2006 | 16 | 13 | | 19 | | 1432006_16 |
| 48 | july 7 2006 | 17 | 7 | | 13 | | 1432006_58 |
| 49 | july 7 2006 | 23 | 8 | | 21 | | 1432006_59 |
| 50 | june 10 2006 | 124 | 115 | | 137 | | 1432006_64 |
| 51 | july 7 2006 | 14 | 6 | | 12 | | 1432006_121 |
| 52 | july 7 2006 | 22 | 8 | | 17 | | 1432006_126 |
| 53 | july 7 2006 | 6 | 4 | | 5 | | 1432006_136 |
| 54 | july 7 2006 | 5 | 2 | | 4 | | 1432006_141 |

COMMENT F= Delsa Anderl H=Charles Hutchinson

Specimens 1 - 25 = case invoice #14-008; Specimens 34-54 = case invoice #14-009

Note that ages and precision for #14-008 are included in this invoice but are separate invoices in the structure exchange table.

USE AND USER INFO: A CARE member initiates an exchange by requesting an Exchange Id number from the CARE Age Structure Exchange Coordinator (CARE Vice Chair). The CARE member conducts and completes the exchange and submits this completed invoice to the Coordinator.

| | | | | | |
|-----------------------------|-------|--------------------|------|----------------------|----|
| <u>PRECISION STATISTICS</u> | | specimen 1-25 | | NMFS compared to DFO | |
| AVERAGE % ERROR | 21.64 | INDEX OF PRECISION | | bias | -2 |
| COEFFICIENT OF VARIATION | 30.61 | %AGREEMENT | 4.00 | | 22 |

| | | | | | |
|-----------------------------|-------|--------------------|------|----------------------|-----|
| <u>PRECISION STATISTICS</u> | | specimen 34-54 | | NMFS compared to DFO | |
| AVERAGE % ERROR | 24.36 | INDEX OF PRECISION | | bias | -15 |
| COEFFICIENT OF VARIATION | 34.45 | %AGREEMENT | 0.00 | | 6 |