

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

EXCHANGE ID NO. 10-004  
 EXCHANGE YEAR 2010  
 ORIGINATING AGENCY CAP/PSMFC  
 COORDINATOR\* Omar Rodriguez  
 COOPERATOR(S) Joanne Groot (DFO)  
 DATE INITIATED 4/13/2010

SPECIES Pacific Hake  
 AREA US West Coast  
 STRUCTURE Otoliths  
 TECHNIQUE BB  
 PURPOSE Calibration  
 SAMPLE n= 100  
 NO. READERS 2

SPECIMEN NUMBER	CAPTURE DATE (MM/DD/YY)	AGENCY	AGENCY	AGENCY	AGENCY	AGENCY	ORIGINAL SAMPLE ID
		CAP	DFO				
1	Jul/Aug 2009	1	1				100117223
2	Jul/Aug 2010	2	2				100618029
3	Jul/Aug 2011	3	3				100117255
4	Jul/Aug 2012	4	4				100117158
5	Jul/Aug 2013	5	5				100117233
6	Jul/Aug 2014	6	6				100624265
7	Jul/Aug 2015	7	7				100618851
8	Jul/Aug 2016	10	10				100117181
9	Jul/Aug 2017	8	8				100117197
10	Jul/Aug 2018	9	9				100601828
11	Jul/Aug 2019	10	10				100117189
12	Jul/Aug 2020	1	1				100608863
13	Jul/Aug 2021	2	2				100618879
14	Jul/Aug 2022	3	3				100117265
15	Jul/Aug 2023	4	4				100117264
16	Jul/Aug 2024	5	5				100618471
17	Jul/Aug 2025	10	10				100117228
18	Jul/Aug 2026	6	6				100117235
19	Jul/Aug 2027	8	8				100117244
20	Jul/Aug 2028	10	10				100618468
21	Jul/Aug 2029	10	10				100618487
22	Jul/Aug 2030	9	10				100117252
23	Jul/Aug 2031	6	6				100117245
24	Jul/Aug 2032	4	4				100117241
25	Jul/Aug 2033	3	3				100117265

COMMENT

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 Co

PRECISION STATISTICS

AVERAGE % ERROR	1.37	INDEX OF PRECISION	Percent + bias	6
COEFFICIENT OF VARIATION	1.93	%AGREEMENT	Percent - bias	2

**AGE STRUCTURE EXCHANGE INVOICE**

EXCHANGE ID NO.		SPECIES	Pacific Hake
EXCHANGE YEAR	2010	AREA	US West Coast
ORIGINATING AGENCY	CAP/PSMFC	STRUCTURE	Otoliths
COORDINATOR*	Omar Rodriguez	TECHNIQUE	BB
COOPERATOR(S)	Joanne Groot (DFO)	PURPOSE	Calibration
DATE INITIATED	4/13/2010	SAMPLE n=	100
		NO. READERS	2

SPECIMEN NUMBER	CAPTURE DATE (MM/DD/YY)	AGENCY	AGENCY	AGENCY	AGENCY	AGENCY	ORIGINAL
		CAP	DFO				SAMPLE ID
26	Jul/Aug 2009	3	3				100117266
27	Jul/Aug 2010	1	1				100608864
28	Jul/Aug 2011	11	11				100624277
29	Jul/Aug 2012	6	6				100618746
30	Jul/Aug 2013	3	3				100608842
31	Jul/Aug 2014	4	4				100117253
32	Jul/Aug 2015	6	6				100618227
33	Jul/Aug 2016	1	1				100608864
34	Jul/Aug 2017	10	10				100620001
35	Jul/Aug 2018	10	10				100618495
36	Jul/Aug 2019	3	3				100117267
37	Jul/Aug 2020	10	10				100618506
38	Jul/Aug 2021	7	7				100608143
39	Jul/Aug 2022	2	2				100618881
40	Jul/Aug 2023	4	4				100117279
41	Jul/Aug 2024	6	6				100117248
42	Jul/Aug 2025	10	10				100618508
43	Jul/Aug 2026	1	1				100608865
44	Jul/Aug 2027	3	3				100608844
45	Jul/Aug 2028	3	3				100117268
46	Jul/Aug 2029	4	4				100608847
47	Jul/Aug 2030	8	8				100608889
48	Jul/Aug 2031	5	5				100608447
49	Jul/Aug 2032	6	6				100618244
50	Jul/Aug 2033	3	3				100117276

COMMENT

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 Co

PRECISION STATISTICS			
AVERAGE % ERROR	1.37	INDEX OF PRECISION	Percent + bias 6
COEFFICIENT OF VARIATION	1.93	%AGREEMENT	92 Percent - bias 2

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

EXCHANGE ID NO.   
 EXCHANGE YEAR   
 ORIGINATING AGENCY CAP/PSMFC  
 COORDINATOR\* Omar Rodriguez  
 COOPERATOR(S) Joanne Groot (DFO)  
 DATE INITIATED

SPECIES Pacific Hake  
 AREA US West Coast  
 STRUCTURE Otoliths  
 TECHNIQUE BB  
 PURPOSE Calibration  
 SAMPLE n=   
 NO. READERS

SPECIMEN NUMBER	CAPTURE DATE (MM/DD/YY)	AGENCY	AGENCY	AGENCY	AGENCY	AGENCY	ORIGINAL SAMPLE ID
		CAP	DFO				
51	Jul/Aug 2009	1	1				100608866
52	Jul/Aug 2010	3	3				100608845
53	Jul/Aug 2011	2	2				100608284
54	Jul/Aug 2012	4	4				100608850
55	Jul/Aug 2013	10	10				100618622
56	Jul/Aug 2014	10	10				100618943
57	Jul/Aug 2015	5	5				100618945
58	Jul/Aug 2016	6	6				100608851
59	Jul/Aug 2017	1	1				100117225
60	Jul/Aug 2018	3	3				100608846
61	Jul/Aug 2019	2	2				100608373
62	Jul/Aug 2020	10	10				100618839
63	Jul/Aug 2021	6	6				100618328
64	Jul/Aug 2022	1	1				100608802
65	Jul/Aug 2023	8	8				100608257
66	Jul/Aug 2024	11	10				100618229
67	Jul/Aug 2025	4	4				100608856
68	Jul/Aug 2026	10	12				100620011
69	Jul/Aug 2027	5	4				100618798
70	Jul/Aug 2028	1	1				100608803
71	Jul/Aug 2029	3	3				100608848
72	Jul/Aug 2030	7	7				100608469
73	Jul/Aug 2031	4	4				100618002
74	Jul/Aug 2032	2	2				100608330
75	Jul/Aug 2033	10	10				100608702

COMMENT

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 Co

PRECISION STATISTICS

AVERAGE % ERROR	<input type="text" value="1.37"/>	INDEX OF PRECISION	<input type="text"/>	Percent + bias	<input type="text" value="6"/>
COEFFICIENT OF VARIATION	<input type="text" value="1.93"/>	%AGREEMENT	<input type="text" value="92"/>	Percent - bias	<input type="text" value="2"/>

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

EXCHANGE ID NO.		SPECIES	Pacific Hake
EXCHANGE YEAR	2010	AREA	US West Coast
ORIGINATING AGENCY	CAP/PSMFC	STRUCTURE	Otoliths
COORDINATOR*	Omar Rodriguez	TECHNIQUE	BB
COOPERATOR(S)	Joanne Groot (DFO)	PURPOSE	Calibration
DATE INITIATED	4/13/2010	SAMPLE n=	100
		NO. READERS	2

SPECIMEN NUMBER	CAPTURE DATE (MM/DD/YY)	AGENCY	AGENCY	AGENCY	AGENCY	AGENCY	ORIGINAL
		CAP	DFO				SAMPLE ID
76	Jul/Aug 2009	7	7				100608538
77	Jul/Aug 2010	1	1				100608805
78	Jul/Aug 2011	10	10				100117164
79	Jul/Aug 2012	4	4				100608872
80	Jul/Aug 2013	6	6				100618485
81	Jul/Aug 2014	10	11				100117169
82	Jul/Aug 2015	5	5				100608180
83	Jul/Aug 2016	3	3				100608852
84	Jul/Aug 2017	10	10				100618473
85	Jul/Aug 2018	7	6				100608523
86	Jul/Aug 2019	1	1				100608807
87	Jul/Aug 2020	8	9				100607903
88	Jul/Aug 2021	6	6				100618497
89	Jul/Aug 2022	4	4				100608874
90	Jul/Aug 2023	2	2				100608627
91	Jul/Aug 2024	3	3				100608853
92	Jul/Aug 2025	10	10				100618486
93	Jul/Aug 2026	1	1				100608745
94	Jul/Aug 2027	10	10				100117232
95	Jul/Aug 2028	6	6				100618780
96	Jul/Aug 2029	11	11				100618465
97	Jul/Aug 2030	4	5				100608877
98	Jul/Aug 2031	3	3				100608854
99	Jul/Aug 2032	10	10				100618770
100	Jul/Aug 2033	1	1				100618057

COMMENT

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 Co

PRECISION STATISTICS			
AVERAGE % ERROR	1.37	INDEX OF PRECISION	Percent + bias 6
COEFFICIENT OF VARIATION	1.93	%AGREEMENT	92 Percent - bias 2