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# Age data of orange roughy (*Hoplostethus atlanticus*) from the northwest Challenger region in 1993, 2013, and 2018

New Zealand Fisheries Assessment Report 2021/39

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ISSN 1179-5352 (online)  
ISBN 978-1-99-100948-7 (online)

**August 2021**



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## EXECUTIVE SUMMARY

**Saunders, R.J.; Horn, P.L.; Ó Maolagáin, C. (2021). Age data of orange roughy (*Hoplostethus atlanticus*) from the northwest Challenger region in 1993, 2013, and 2018.**

*New Zealand Fisheries Assessment Report 2021/39. 28 p.*

This report describes the age data from samples of the commercial catch of orange roughy (*Hoplostethus atlanticus*) taken from the northwest Challenger region (outside New Zealand's Exclusive Economic Zone) in 1993, 2013, and 2018. Orange roughy were aged from thin sections of sagittal otoliths according to the protocol developed at the orange roughy ageing workshop in 2007. The median age of adult orange roughy was lower in 2018 than in 1993 and the change in median age was greater for males than females. Estimated age at maturity, based on the timing of formation of the transition zone, was 27 years for both sexes. Age estimates ranged from 17 to 162 years.

## 1. INTRODUCTION

This report fulfils the reporting requirements relating to orange roughy (*Hoplostethus atlanticus*) for Objective 2 of Project MID201902, “Routine age determination of middle depth and deepwater species from commercial fisheries and resource surveys” and was funded by Fisheries New Zealand. The objective required the preparation and ageing of otoliths of orange roughy sampled from the northwest Challenger region, to the west of New Zealand (Figure 1), from the years 1993, 2013, and 2018. This region is outside the New Zealand Exclusive Economic Zone (EEZ) and the orange roughy fishery is managed via the South Pacific Regional Fisheries Management Organisation (SPRFMO). Orange roughy from northwest Challenger are considered to be a separate stock from those landed in fisheries operating in the southwest Challenger and Lord Howe Rise (Clark et al. 2016).

A protocol for ageing orange roughy was developed during an international workshop in 2007, and a formal documentation of this protocol was produced by Horn et al. (2016). The growth of juvenile orange roughy has been validated by examining the otolith marginal increment type and by length frequency analysis (Mace et al. 1990). Andrews et al. (2009) applied a lead-radium dating method to orange roughy and showed a reasonable correlation of the growth-zone counts to the expected lead-radium growth curve. This work provided support for both a centenarian life span for orange roughy and for the age estimation procedures using thin otolith sectioning (Horn et al. 2016).

The aim of the work was to generate a set of age data from samples collected in 1993, 2013, and 2018 by New Zealand’s Scientific Observer Programme. These are the first substantial sets of age data produced for orange roughy from this area.

## 2. METHODS

All fish catch data and otoliths used in this analysis were collected by New Zealand Ministry for Primary Industries (MPI) observers aboard commercial fishing trawlers. Observers are directed to extract otoliths from a random sub-sample of fish. The number of otoliths collected from each tow has varied over the period of the Observer Programme but for the tows used in this work otolith numbers ranged from 2 to 23 with an average of 9. Otoliths sampled from fishing that occurred from June to July in the Northwest Challenger SPRFMO Bottom Trawl Management Area (Figure 1) were selected for preparation. All available otoliths from this time period were used in the analysis as directed by MPI (see Cordue 2020). An additional set of otoliths was also prepared from May 1993 because there were low numbers of available otoliths from the June-July period in that year (Table 1).

Orange roughy otoliths were prepared using the NIWA preparation method described by Horn et al. (2016). One whole otolith from each of the selected fish was individually embedded in resin and cured in an oven. A thin section was cut along a line from the primordium (otolith nucleus region) through the most uniform (and usually the longest) posterior-dorsal axis using a sectioning saw with dual diamond-impregnated wafering blades separated by a 380 µm spacer. The section was mounted on a glass microscope slide under a glass cover slip. When collected, some otoliths had been damaged such that the tips of the posterior-dorsal axes were missing on both otoliths. In some situations, however, it was possible to take sub-optimal, but complete, sections at other locations on the posterior-dorsal axis. For some sampled fish, both otoliths were too damaged or incomplete, and consequently neither otolith was prepared.

All otoliths were read once by one reader using the otolith interpretation and reading protocols described in the ageing methodology document (Horn et al. 2016). The data produced include counts of zones from the primordium to the transition zone (TZ, the zone that is considered to mark the onset of orange roughy maturity; Francis & Horn 1997), and from the TZ to the otolith margin, and readability codes for those readings provided on a 5-stage readability scale (Horn et al. 2016). Otolith data with a readability code of 5 (i.e., unreadable) for either the pre- or post-TZ readings were excluded. The presence of a TZ was identified, ideally, by the following three criteria: a clear reduction in zone width,

a marked change in the optical density of the otolith from dark to light, and a change in curvature of the posterior arm of the otolith (Horn et al. 2016). The TZs were classified after Horn et al. (2016) using a 4-stage scale, i.e.:

- 0, not yet formed (or observed),
- 1, clear and unambiguous with all three criteria met,
- 2, a gradual transition with at least two criteria met,
- 3, a gradual transition with none or one of the criteria met.

For TZ classification 3, only a total age was recorded by the reader because the likely location of the TZ was undefined.

Prior to reading the otoliths the reader (Richard Saunders) read a set of 160 otoliths with agreed ages and achieved a CV of 5.3% for total age and 5.9% to age at transition. There was slight bias in total age by on average 1.3 years. These are well within acceptable limits identified in the ageing methodology (Horn et al. 2016).

## 2.1 Data presentation

Unscaled age frequency distributions by sex were made using one-year and five-year bins. Summary statistics were calculated by sex for total age and age to the TZ when one was recorded.

## 3. RESULTS

The number of otoliths available varied by month and year with greater numbers available in 2018 than in the earlier years (Table 1). The proportion of otoliths unsuitable for preparation was highest in 1993 at 31% but much lower in the two most recent years at 13% and 7%, respectively (Table 1). Very few of the remaining otoliths resulted in failed preparations (7 of 1126). There were 14, 27, and 26 unreadable otoliths in each year, respectively (readability code 5). Age estimates ranged from 17 to 162 years (Table 2). The median and mean ages were highest for both sexes in the 1993 fish compared with the 2013 and 2018 fish (Table 2). A greater difference in median age over the years was observed for males than females (Table 2, Figures 2, 3, & 4). Mean age at the transition zone (i.e., age at maturity, see Francis & Horn (1997)) was 27 for both males and females but varied widely (Table 3). Raw age data are provided in Appendix A.

## 4. DISCUSSION

Age data were produced for orange roughy from commercial fishery samples from the northwest Challenger region. These data constitute the first available substantial collection of age information for orange roughy in the area.

There is a clear difference in the unscaled age frequency distributions between the sampled years, with the main difference being a marked reduction in the relative numbers of large males in recent (2018) samples compared with earlier samples (1993). This observation corresponds with other recent age frequency estimates of orange roughy on the central Louisville Ridge which contrasted 1995 and 2013–15 (Horn & Ó Maolagáin 2019). The lower median age for males in contrast to females in the most recent year (2018) was also observed for the Louisville population in 2013–15 (Horn & Ó Maolagáin 2019) and more recently inside the New Zealand Exclusive Economic Zone in ORH 7B for June–July of 2019 (Moore et al. in prep).

The reasons for the temporal changes in the age frequencies observed here are uncertain. They could be a real effect on the population composition as a consequence of fishing but could also be driven by the

less comprehensive sampling in 1993 and the inclusion of the May sample in that year. Although the trends observed are strong, it should be noted that the age frequencies presented in this report are unscaled. A more detailed analysis of age frequency data in other years, and/or further ageing investigations, could provide an understanding of this issue.

The estimated age at maturity of 27 years, based on age at transition zone formation, corresponded well with those for New Zealand mainland stocks (26–29 years, Horn et al. 2016). This was slightly lower than that observed for another stock outside the New Zealand EEZ, at the central Louisville Ridge, at 31 years (Horn & Ó Maolagáin 2019).

## 5. ACKNOWLEDGMENTS

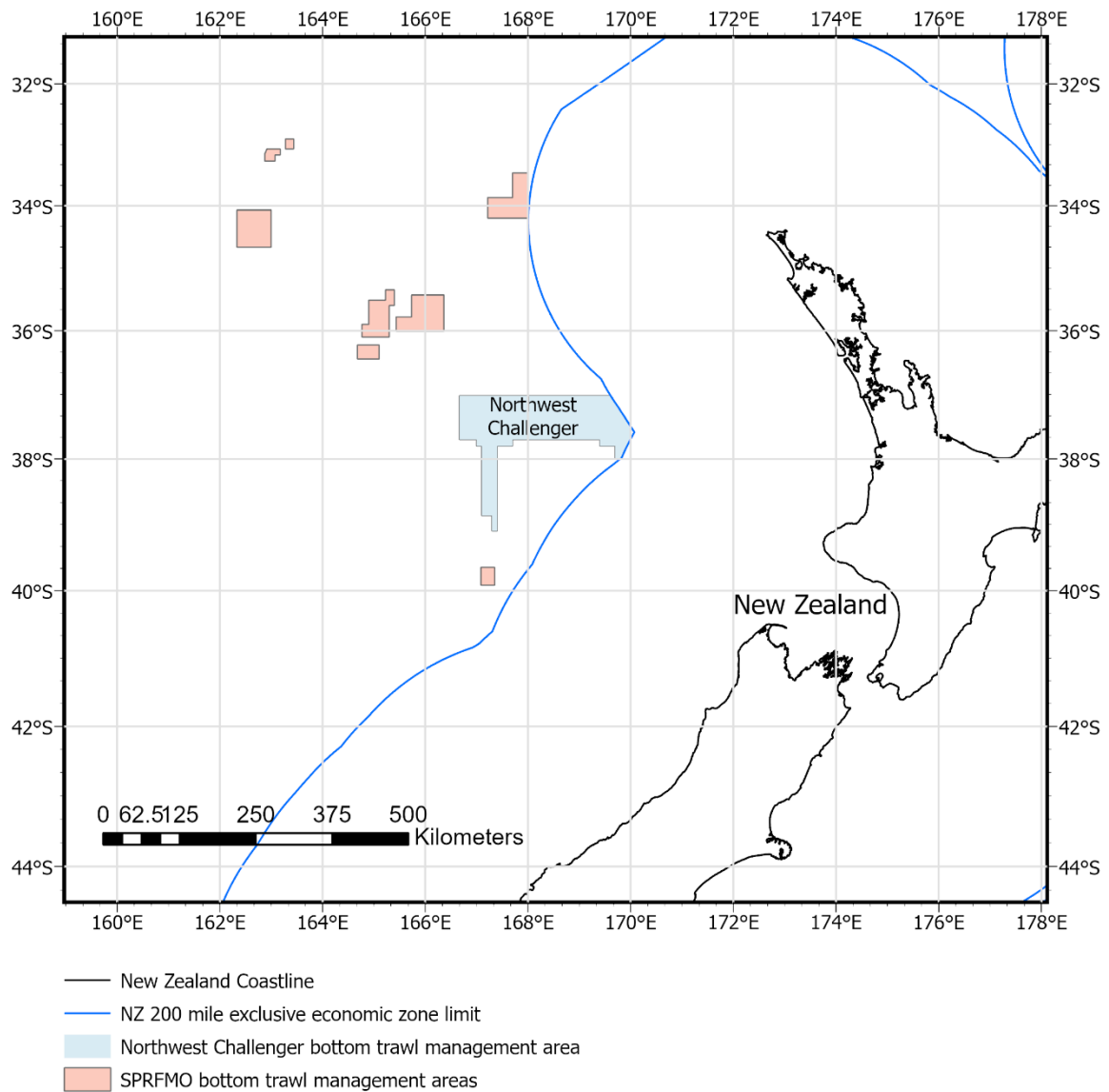
We thank Jane Halliday (NIWA) for assistance with otolith section preparation, and Adele Dutilloy and Jeremy McKenzie (NIWA) for reviewing the manuscript. This work was funded by Fisheries New Zealand under project MID201902.

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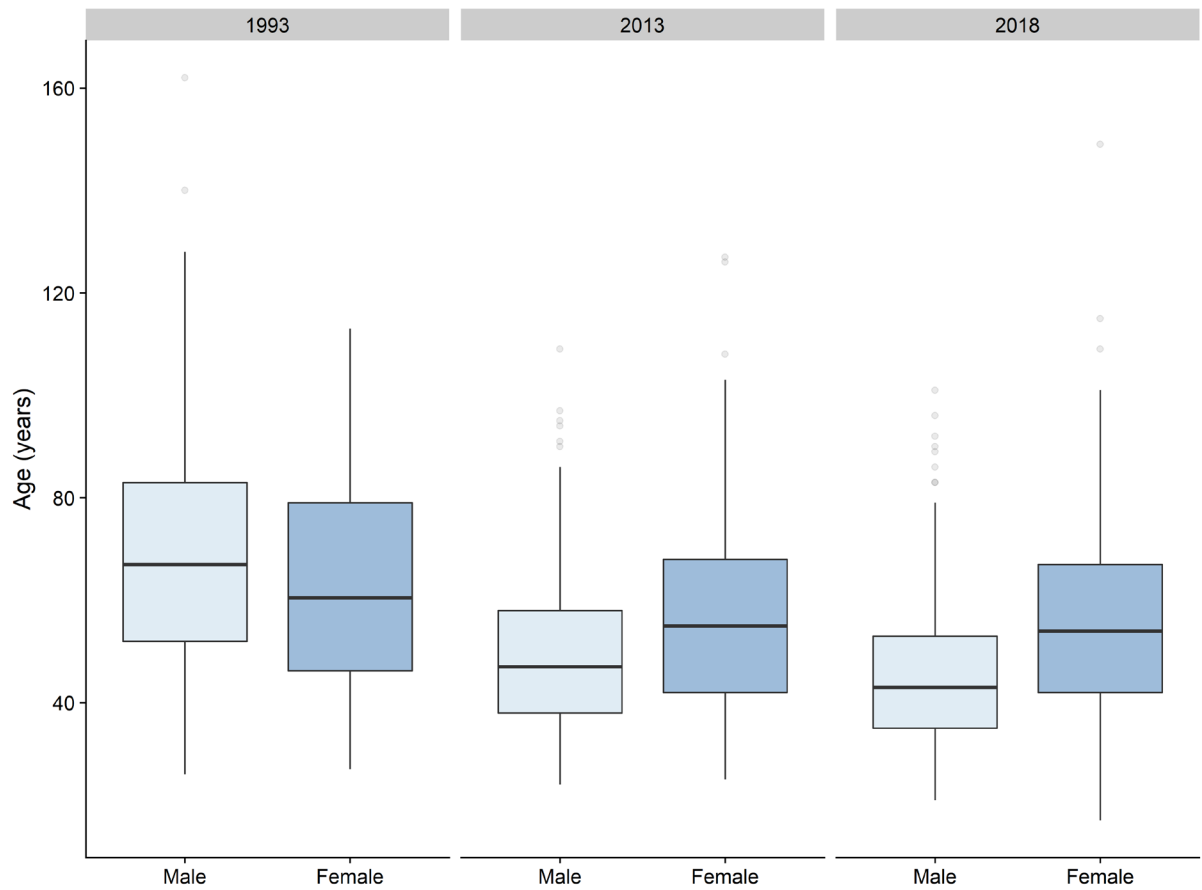
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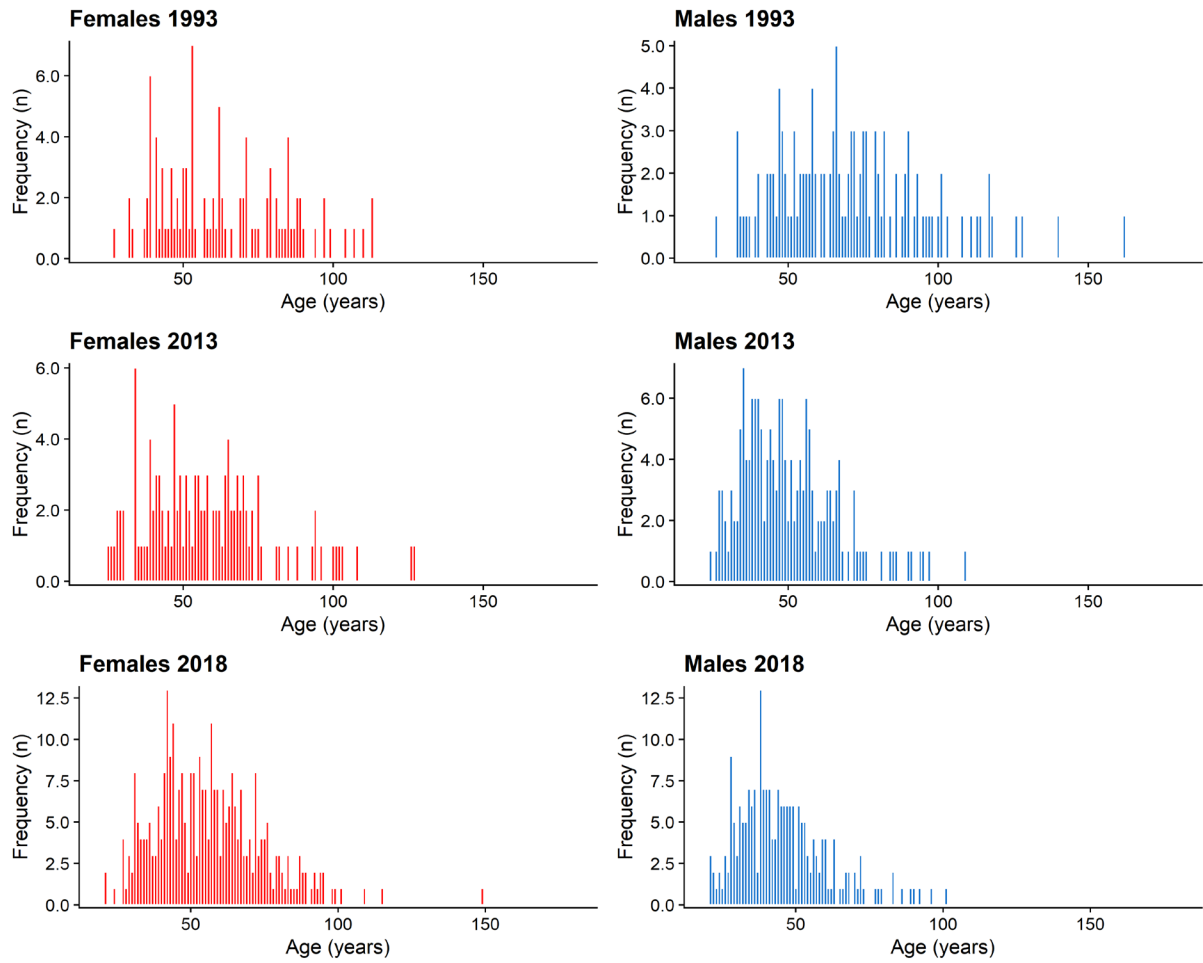
## 7. FIGURES AND TABLES



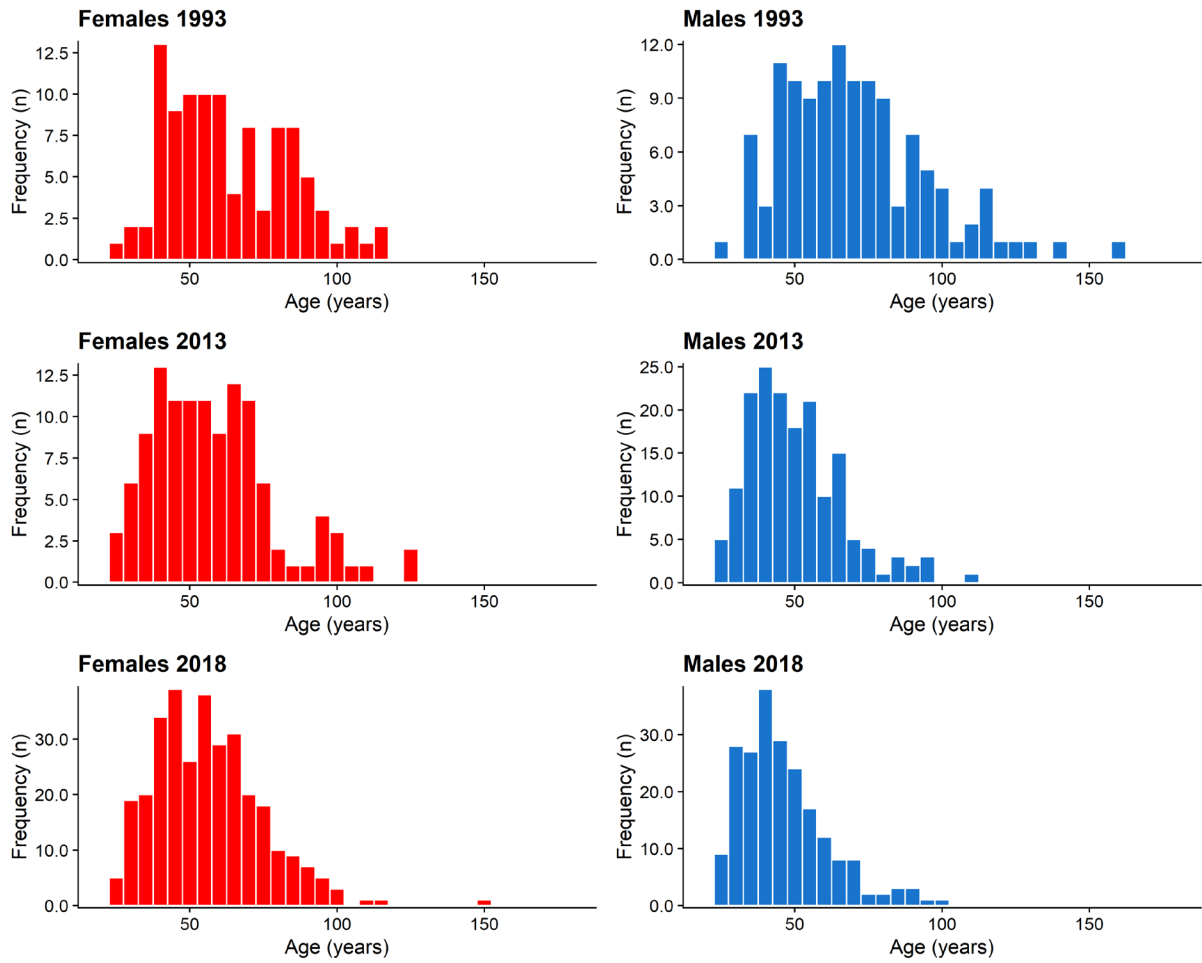
**Figure 1: Location of the Northwest Challenger bottom trawl management area. SPRFMO = South Pacific Regional Fisheries Management Organisation.**



**Figure 2: Box and whisker plot of observed catch of orange roughy from northwest Challenger in 1993, 2013, and 2018 by sex and year.**



**Figure 3: Unscaled age frequency distributions by sex of the observed catch of orange roughy from northwest Challenger in 1993, 2013, and 2018 in 1-year bins.**



**Figure 4: Unscaled age-frequency distributions by sex of the observed catch for orange roughy from northwest Challenger in 1993, 2013, and 2018 in 5-year bins.**

**Table 1: Numbers of sectioned otoliths from the selected months with summary of total number of trips and tows. Numbers in brackets are the total numbers of otoliths that were collected but not all were in a condition suitable for sectioning.**

Year	Month	Trips	Tows	Sectioned otoliths (total collected)
1993	May			68 (120)
	June			124 (170)
	July			47 (59)
	Total	1	35	239 (349)
2013	May			–
	June			265 (314)
	July			52 (52)
	Total	5	23	317 (366)
2018	May			–
	June			437 (451)
	July			126 (129)
	Total	6	64	563 (605)

**Table 2: Summary of the age data (age in years). Combined sex includes several fish for which sex information was not available.**

Year	Sex	Number aged	Median age	Mean age	Age range
1993	Male	123	67	70.4	26–162
	Female	102	60.5	63.4	27–113
	Combined	225	64	67.2	26–162
2013	Male	168	47	50.1	24–109
	Female	117	55	57.8	25–127
	Combined	290	50	53.2	24–127
2018	Male	217	43	45.5	21–101
	Female	319	54	55.9	17–149
	Combined	537	49	51.7	17–149

**Table 3: Summary statistics of age at the transition zone (when present) for males and females for all years.**

Sex	Median	Mean	Standard deviation	Min	Max	N
Male	27	27.7	4.68	18	53	358
Female	27	27.0	4.41	17	45	401

## APPENDIX A: Age data

**Table A1: Data from all successfully aged otolith preparations. prep, preparation number; lgth, fish standard length (cm); fish is fish number selected for ageing; sex, where 1 = male and 2 = female; 0-TZ, zone count from nucleus to TZ (or total zone count if TZR = 3); R1, readability of 0-TZ; TZR, transition zone classification; TZ-E, zone count from TZ to otolith edge; R2, readability of TZ-E; Total, fish age; axis, indicates where otolith section axis was sub-optimal (LA); date, capture date. (Continued over next pages)**

prep	trip	tow	fish	lgth	sex	0-TZ	R1	TZR	TZ-E	R2	Total	axis	date
1	608	134	1	37	1	30	3	2	49	4	79	LA	30/05/1993
2	608	134	2	34	1	36	3	2	61	4	97		30/05/1993
3	608	134	3	31	1	26	3	2	22	4	48		30/05/1993
4	608	134	4	30	1	33	4	3			33	LA	30/05/1993
5	608	134	5	36	2	40	3	2	6	3	46	LA	30/05/1993
6	608	134	6	36	1	40	4	2	53	4	93		30/05/1993
7	608	134	7	38	2	38	3	2	44		82		30/05/1993
8	608	134	8	38	2	37	4	2	33	4	70		30/05/1993
9	3771	39	17	35	1		5						25/06/2013
10	608	134	10	31	1	43	3	3			43	LA	30/05/1993
11	608	152	1	34	1	20	4	2	34	4	54	LA	1/06/1993
12	608	121	4	36	2	26	3	1	34	3	60		28/05/1993
13	608	152	3	37	1	33	4	2	48	4	81		1/06/1993
14	608	152	4	33	1	28	3	2	75	3	103		1/06/1993
15	608	152	5	36	2	30	2	2	9	2	39		1/06/1993
16	608	152	6	33	2	25	4	2	26	3	51		1/06/1993
17	608	152	7	32	1	29	4	2	25	3	54		1/06/1993
18	608	152	8	33	2	27	4	2	14	4	41	LA	1/06/1993
19	608	152	9	34	2	30	3	1	57	3	87		1/06/1993
20	608	152	10	35	2	33	3	1	38	4	71		1/06/1993
21	608	121	6	34	2	30	3	2	32	4	62		28/05/1993
22	608	121	8	34	2	26	4	2	49	3	75		28/05/1993
23	608	117	3	35	2	35	3	2	43		78		27/05/1993
24	608	117	4	30	1	27	4	2	19	3	46		27/05/1993
25	608	158	5	32	1	27	4	2	28	3	55		2/06/1993
26	608	158	6	32	2	25	3	2	16	4	41		2/06/1993
27	608	158	7	33	1	28	3	2	43	4	71		2/06/1993
28	608	158	8	34	2	19	4	1	19	4	38	LA	2/06/1993
29	608	158	9	30	2	18	3	2	23	4	41		2/06/1993
30	608	158	10	34	2	27	4	2	30	4	57		2/06/1993
31	608	169	1	33	1	27	3	2	74	3	101		3/06/1993
32	3771	39	18	28	1	34	2	2	3	4	37	LA	25/06/2013
33	608	117	6	36	1	27	2	2	49	4	76		27/05/1993
34	608	169	4	34	1	26	2	2	39	4	65	LA	3/06/1993
35	608	169	5	35	1	31	3	2	43	4	74		3/06/1993
36	608	169	6	35	2	22	3	2	24	3	46	LA	3/06/1993
37	608	169	7	32	1		5						3/06/1993
38	608	169	8	38	2	23	3		34		57		3/06/1993
39	608	169	9	32	1	36	3	3			36		3/06/1993
40	608	169	10	32	2	37	2	2	16	3	53		3/06/1993
41	3771	39	19	33	1	27	4	2	27	4	54	LA	25/06/2013
42	608	176	2	32	2	45	4	3			45		4/06/1993
43	608	176	3	32	1	35	2	2	21	3	56		4/06/1993
44	608	117	8	34	1	29	2	2	57	4	86		27/05/1993
45	608	176	5	35	1	35	3	2	44		79		4/06/1993
46	608	176	6	34	1	25	4	1	33	4	58		4/06/1993
47	608	176	7	36	1	31	4	2	39	3	70		4/06/1993
48	608	176	8	36	2	31	3	2	22		53		4/06/1993
49	608	117	9	30	2	33	4	2	6	2	39		27/05/1993
50	608	176	10	34	1	27	3		26		53		4/06/1993

51	608	189	1	36	1		5					5/06/1993
52	608	189	2	34	1	27	4	2	28	4	55	5/06/1993
53	608	189	3	34	1	31	3	2	20	3	51	5/06/1993
54	3771	39	20	32	2	34	2	1	8	2	42	25/06/2013
55	608	189	5	33	1	27	3	2	13	3	40	5/06/1993
56	608	189	6	33	2	28	3	2	22	2	50	5/06/1993
57	608	189	7	36	1	28	3	2	12	3	40	5/06/1993
58	608	189	8	32	2		5					5/06/1993
59	608	189	9	39	2	29	4	2	29		58	LA 5/06/1993
60	608	189	10	34	2	43	3	3			43	5/06/1993
61	608	195	1	34	2	27	3	2	23	3	50	6/06/1993
62	608	195	2	31	1	22	3	2	13	3	35	6/06/1993
63	608	93	2	34	1	31	4	2	21	4	52	24/05/1993
64	608	93	3	34	2	22	4	2	26	4	48	24/05/1993
65	608	195	5	30	2	32	3	3			32	6/06/1993
66	608	4	4	35	2	26	4	2	36	4	62	10/05/1993
67	608	195	7	35	2	28	4	2	26	4	54	6/06/1993
68	608	195	8	35	2	32	4	2	34	4	66	LA 6/06/1993
69	608	195	9	33	2	29	4	2	33	4	62	6/06/1993
70	608	195	10	31	2	30	4	2	18	4	48	6/06/1993
71	608	93	5	34	2	25	3	2	37	4	62	24/05/1993
72	608	93	6	34	1	30	3	2	34	4	64	24/05/1993
73	608	208	3	37	2	34	3	2	26	3	60	7/06/1993
74	608	93	7	35	2	27	4	2	42	4	69	24/05/1993
75	608	93	8	35	1	25	2	2	37	4	62	24/05/1993
76	608	208	6	30	2	37	2	3			37	7/06/1993
77	608	208	7	33	2	39	4	3			39	7/06/1993
78	608	93	9	30	1	28	3	2	6	4	34	24/05/1993
79	608	71	1	34	1	25	2	2	52	4	77	22/05/1993
80	608	71	2	30	1	27	4	2	16	4	43	22/05/1993
81	608	217	1	35	2	30	4	2	21	4	51	8/06/1993
82	608	217	2	33	2	28	4	2	19	4	47	8/06/1993
83	608	71	3	35	1		5					LA 22/05/1993
84	608	217	4	33	1	30	3	2	14	3	44	8/06/1993
85	608	217	5	36	1	31	3	2	59	4	90	8/06/1993
86	608	217	6	32	2	29	3	2	24	3	53	8/06/1993
87	608	217	7	37	1	34	3	1	79	3	113	8/06/1993
88	608	217	8	36	2	35	3	2	62	3	97	8/06/1993
89	608	71	6	36	1	33	3	2	55	4	88	22/05/1993
90	608	217	10	34	1	28	4	2	54	2	82	8/06/1993
91	608	236	1	32	1	26	4	2	11	4	37	11/06/1993
92	608	236	2	38	1	31	4	2	49	4	80	11/06/1993
93	608	236	3	31	1	23	3	2	22	4	45	11/06/1993
94	608	71	7	37	1	31	3	2	49	3	80	22/05/1993
95	608	236	5	35	2	31	3	2	18	3	49	11/06/1993
96	608	236	6	39	2	32	3	2	52	3	84	11/06/1993
97	608	236	7	34	1	26	4	2	40	3	66	11/06/1993
98	608	236	8	31	1	27	3	2	6	4	33	11/06/1993
99	608	236	9	34	2	33	3	2	38	4	71	11/06/1993
100	608	236	10	32	2	31	3	2	8	3	39	LA 11/06/1993
101	608	241	1	37	2	34	3	2	79	3	113	12/06/1993
102	608	241	2	31	1	30	4	2	15	4	45	12/06/1993
103	608	241	3	31	1	30	4	2	18	4	48	12/06/1993
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125	608	69	10	36	1	28	3	2	70	3	98	21/05/1993
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127	608	250	7	35	1	26	4	2	85	4	111	14/06/1993
128	608	250	8	33	1	24	3	2	33	3	57	14/06/1993
129	608	67	1	34	2	32	4	2	21	4	53	21/05/1993
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131	608	4	5	33	1	22	4	2	25	4	47	LA 10/05/1993
132	608	67	5	33	1	25	4	2	44	4	69	21/05/1993
133	608	67	6	31	1	35	4	2	26	4	61	LA 21/05/1993
134	608	251	4	38	2	36	4	2	52	4	88	15/06/1993
135	608	67	8	32	1		5					21/05/1993
136	608	67	9	38	2	24	3	2	19	3	43	21/05/1993
137	608	251	7	35	1	32	4	2	57	4	89	15/06/1993
138	608	67	10	34	1	36	4	2	72	2	108	21/05/1993
139	608	63	2	32	1	34	3	2	32	3	66	20/05/1993
140	608	63	4	34	1	26	3	2	64	4	90	20/05/1993
141	608	257	1	33	1	34	3	2	16	4	50	16/06/1993
142	608	257	2	32	1	27	3	2	47	4	74	16/06/1993
143	608	257	3	31	1	18	3	2	31	2	49	16/06/1993
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145	608	257	5	31	1	27	2	2	46	3	73	16/06/1993
146	608	257	6	36	1	29	2	2	88	4	117	16/06/1993
147	608	257	7	32	1	27	4	2	25	3	52	16/06/1993
148	608	257	8	35	1	26	3	2	49	3	75	16/06/1993
149	608	257	9	35	1	34	3	2	27	3	61	16/06/1993
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151	608	273	1	34	1	26	4	2	114	4	140	18/06/1993
152	608	273	2	35	1	31	4	2	62	3	93	18/06/1993
153	608	273	3	34	1	34	3	2	24	4	58	18/06/1993
154	608	273	4	36	2	31	3	2	48	4	79	18/06/1993
155	608	273	5	31	1	24	3	2	23	3	47	LA 18/06/1993
156	608	63	6	34	1	31	3	2	45	4	76	LA 20/05/1993
157	608	273	7	37	1	34	3	2	52	4	86	18/06/1993
158	608	273	8	32	1	25	4	2	41	4	66	LA 18/06/1993
159	608	273	9	31	1	33	3	3			33	18/06/1993
160	608	273	10	35	1	35	3	2	93	4	128	18/06/1993
161	608	279	1	36	1	38	3	2	58	3	96	19/06/1993
162	608	63	7	32	1	31	4	2	40	3	71	20/05/1993
163	608	279	3	33	1	35	3	2	22	3	57	19/06/1993
164	608	279	4	31	1	31	3	2	41	3	72	19/06/1993
165	608	63	8	35	2	28	3	2	60	4	88	20/05/1993
166	608	279	6	38	1	36	3	2	81	4	117	19/06/1993
167	608	279	7	32	1	33	3	2	49	4	82	19/06/1993
168	608	279	8	37	1	30	4	2	38	4	68	19/06/1993
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170	608	279	10	27	1		5					19/06/1993



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172	608	310	2	36	1	53	3	2	42	4	95	30/06/1993
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176	608	310	6	27	1	26	2	0			26	30/06/1993
177	608	310	7	32	2	34	2	2	10	4	44	30/06/1993
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180	608	310	10	36	2	40	3	2	6	3	46	LA 30/06/1993
181	608	40	6	34	1	40	3	2	49	4	89	17/05/1993
182	608	318	2	32	1	33	3	2	19	4	52	1/07/1993
183	608	318	3	35	1	35	4	2	65	4	100	1/07/1993
184	608	40	10	34	1	29	4	2	30	3	59	17/05/1993
185	608	16	2	35	1	44	3	3			44	12/05/1993
186	608	318	6	34	2		5					LA 1/07/1993
187	608	318	7	35	1	28	3	1	47	3	75	1/07/1993
188	608	318	8	37	1	33	3	2	49	4	82	1/07/1993
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190	608	318	10	34	1	76	4	3			76	LA 1/07/1993
191	608	326	1	37	2	21	4	2	83	4	104	2/07/1993
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193	608	16	1	36	2	29	3	2	12	4	41	12/05/1993
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195	608	326	5	35	2	36	3	2	53	3	89	2/07/1993
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198	608	326	8	34	2		5					2/07/1993
199	608	326	9	33	1	40	4	2	18	4	58	2/07/1993
200	608	326	10	32	2	28	4	2	25	4	53	2/07/1993
201	608	16	3	35	2	34	3	2	51	3	85	12/05/1993
202	608	338	2	31	1	36	3	2	48	4	84	3/07/1993
203	608	16	4	34	2	28	3	2	42	4	70	12/05/1993
204	608	338	4	35	1	25	3	2	101	4	126	3/07/1993
205	608	338	5	31	1	27	3	2	91	4	118	3/07/1993
206	608	16	5	34	2	26	3	2	53	4	79	12/05/1993
207	608	338	7	29	2	27	4	0			27	3/07/1993
208	608	338	8	33	1	34	4	2	36	4	70	3/07/1993
209	608	338	9	37	2	33	4	2	45	4	78	3/07/1993
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214	608	347	4	34	2		5					LA 4/07/1993
215	608	347	5	35	2	43	4	2	38	4	81	LA 4/07/1993
216	608	4	7	35	2	23	3	2	51	3	74	10/05/1993
217	608	347	7	35	2	25	3	2	46	4	71	4/07/1993
218	608	347	8	30	2	28	3	2	4	3	32	4/07/1993
219	608	347	9	31	2	37	3	2	6	4	43	4/07/1993
220	608	4	9	38	2	28	3	2	66	4	94	10/05/1993
221	608	12	1	35	2	26	3	2	81	3	107	11/05/1993
222	608	388	2	36	1	32	3	2	130	3	162	10/07/1993
223	608	388	3	37	2	31	4	2	55	4	86	10/07/1993
224	608	388	4	31	2	39	4	2	11	3	50	LA 10/07/1993
225	608	388	5	31	1	35	4	2	12	4	47	10/07/1993
226	608	388	6	32	1	27	3	2	39	4	66	10/07/1993
227	608	12	2	36	2		5					LA 11/05/1993
228	608	388	8	34	2	39	3	2	44	4	83	10/07/1993
229	608	12	3	33	2	34	3	1	51	3	85	10/07/1993
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232	608	401	2	33	2	30	4	2	33	4	63	11/07/1993
233	608	401	3	32	2	31	3	2	22	4	53	11/07/1993
234	608	401	4	35	2	39	2	2	40	3	79	11/07/1993
235	608	401	5	35	2	38	3	2	61	4	99	11/07/1993
236	608	401	6	31	1	32	4	2	39	4	71	11/07/1993
237	608	401	7	32	1	29	4	2	30	4	59	11/07/1993
238	608	401	8	38	2	35	4	2	27	4	62	11/07/1993
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240	608	12	5	30	2			5				11/05/1993
241	3771	25	2	29	2	28	4	2	11	4	39	22/06/2013
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245	3771	25	6	33	2	23	3	2	58	3	81	22/06/2013
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248	3771	25	9	29	2			5				LA 22/06/2013
249	3771	25	10	36	1	37	3	2	30	3	67	22/06/2013
250	608	12	6	33	1	39	4	3			39	LA 11/05/1993
251	3771	25	12	35	2	39	4	3			39	22/06/2013
252	3771	25	13	32	2	28	3	2	19	4	47	22/06/2013
253	3771	25	14	35	2			5				LA 22/06/2013
254	3771	25	15	29	1	39	3	3			39	22/06/2013
255	3771	25	16	30	2	35	3	2	15	3	50	22/06/2013
256	3771	25	17	31	1	41	3	3			41	22/06/2013
257	3771	25	18	35	2			5				22/06/2013
258	3771	25	19	32	2	44	3	2	14	3	58	22/06/2013
259	3771	25	20	31	2	35	3	0			35	22/06/2013
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270	3771	33	11	34	1	28	4	2	28	4	56	24/06/2013
271	3771	33	12	32	1	33	3	2	26	3	59	24/06/2013
272	3771	33	13	31	1	30	3	2	17	3	47	24/06/2013
273	3771	33	14	31	1	39	3	2	21	3	60	LA 24/06/2013
274	3771	33	15	32	1	24	4	2	14	4	38	24/06/2013
275	3771	33	16	33	1	27	3	2		5	27	24/06/2013
276	3771	33	17	29	1	33	4	3	23	4	56	24/06/2013
277	3771	33	18	32	1	37	3	2	35	4	72	24/06/2013
278	3771	33	19	36	1	30	3	2	60	3	90	24/06/2013
279	3771	33	20	30	1	39	3				39	24/06/2013
280	3771	39	1	35	2	29	4	2	25	4	54	LA 25/06/2013
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283	3771	39	4	32	1	22	3	3	19	3	41	25/06/2013
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296	5380	46	3	32	2	22	3	2	55	4	77	14/07/2018
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307	5380	41	1	30	2	29	4	2	5	3	34	LA 12/07/2018
308	5380	38	11	30	1	63	4				63	LA 11/07/2018
309	5380	38	9	32	1	34	3	3	15	4	49	11/07/2018
310	5380	38	8	32	2	37	3	3	24	4	61	11/07/2018
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312	5380	34	5	32	1	51	4	3			51	LA 10/07/2018
313	5380	34	4	32	1		5					10/07/2018
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315	5380	34	2	33	1	32	3	3			32	10/07/2018
316	5380	34	1	35	2	23	3	2	43	4	66	10/07/2018
317	5404	2	4	38	2	54	4	3			54	20/07/2018
318	5380	29	68	35	2		5					8/07/2018
319	5380	29	66	30	1	30	3	3	8	2	38	8/07/2018
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321	3780	21	1	30	1	29	3	2	19	3	48	9/06/2013
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323	3780	21	3	31	1	35	3	3			35	9/06/2013
324	5380	29	50	29	1	22	3	2	7	4	29	8/07/2018
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327	3780	21	7	21	2	29	3	3			29	9/06/2013
328	3780	21	8	33	1	33	3	3			33	9/06/2013
329	3780	21	9	29	1	28	3	2	33	4	61	LA 9/06/2013
330	3780	21	10	34	1	31	3	3			31	LA 9/06/2013
331	3780	21	11	36	1	32	4	3	35	3	67	9/06/2013
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333	3780	21	13	36	3	25	3	3	46	4	71	9/06/2013
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335	3780	21	15	29	3	29	3	3			29	9/06/2013
336	3780	21	16	27	3	32	4	3			32	9/06/2013
337	3780	21	17	34	3	32	4	3	32		64	LA 9/06/2013
338	3780	21	18	36	1	32	3	3			32	9/06/2013
339	3780	21	19	32	3	27	3	3	47	4	74	9/06/2013
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345	3780	26	5	33	2	30	3	2	35	3	65	10/06/2013
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350	3780	26	10	35	1	29	3	2	68	4	97	10/06/2013

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354	3780	26	14	31	2	34	3	3			34	10/06/2013
355	5380	29	48	31	2	25	3	2	33	3	58	8/07/2018
356	3780	26	16	33	1	36	3	3			36	10/06/2013
357	3780	26	17	26	1	26	3	2	13	3	39	10/06/2013
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359	3780	26	19	31	1	31	3	3	53	4	84	10/06/2013
360	3780	26	20	35	1	35	3	3	41	4	76	10/06/2013
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363	3780	28	4	31	1	32	4	3			32	LA 11/06/2013
364	5380	29	45	31	1	24	3	2	17	3	41	8/07/2018
365	3780	28	6	32	1	28	3	3	19	4	47	11/06/2013
366	5380	29	44	32	2	36	3	3			36	8/07/2018
367	3780	28	8	38	2	29	4	1	37	4	66	LA 11/06/2013
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370	5380	29	43	35	1	36	4	3			36	8/07/2018
371	3780	28	12	28	1	34	4	3			34	11/06/2013
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373	3780	28	14	32	1	27	4	2	9	4	36	LA 11/06/2013
374	3780	28	15	35	2	26	3	2	32	3	58	11/06/2013
375	3780	28	16	35	2	29	3	1	26	4	55	11/06/2013
376	3780	28	17	34	1	28	3	1	5	4	33	LA 11/06/2013
377	3780	28	18	37	2	25	3	2	43	3	68	11/06/2013
378	3780	28	19	31	2	25	4	2	40	4	65	11/06/2013
379	5380	29	38	33	1	23	2	2	27	3	50	8/07/2018
380	3780	34	1	32	1	25	3	1	35	3	60	12/06/2013
381	3780	34	2	34	2	38	4	1	33	4	71	12/06/2013
382	3780	34	3	32	1	31	3	1	10	3	41	12/06/2013
383	3780	34	4	36	1		5					LA 12/06/2013
384	3780	34	5	36	1	27	3	2	18	3	45	12/06/2013
385	3780	36	1	34	2	30	4	2	11	4	41	12/06/2013
386	3780	36	2	35	2	27	4	2	49	4	76	12/06/2013
387	3780	36	3	37	1	29	3	3			29	12/06/2013
388	3780	36	4	33	2	33	4	2	18	3	51	12/06/2013
389	3780	36	5	37	1		5					12/06/2013
390	3780	41	1	30	1	26	3	2	9	2	35	13/06/2013
391	3780	41	2	31	1	23	2	2	45	4	68	13/06/2013
392	3780	41	3	34	1	23	3	3	43	2	66	13/06/2013
393	3780	41	4	34	1	28	2	3	45	3	73	13/06/2013
394	3780	41	5	34	1	30	3	2	27	4	57	LA 13/06/2013
395	5380	29	36	31	2		5					8/07/2018
396	3780	41	7	35	1	25	3	2	32	4	57	13/06/2013
397	3780	41	8	34	1	30	2	1	6	2	36	13/06/2013
398	3780	41	9	37	1	23	4	2	42	2	65	13/06/2013
399	3780	41	10	37	2	26	3	1	28	2	54	13/06/2013
400	3780	41	11	38	1	25	4	2	23	4	48	13/06/2013
401	3780	41	12	35	1	28	3	3	29	4	57	13/06/2013
402	3780	41	13	36	2	26	4	1	13	3	39	13/06/2013
403	3780	41	14	35	2	33	3	2	23	3	56	13/06/2013
404	3780	41	15	35	1	26	3	1	31	4	57	13/06/2013
405	3780	41	16	34	1	32	3	2	24	3	56	13/06/2013
406	3780	41	17	33	1	31	4	3			31	13/06/2013
407	3780	41	18	33	1	32	3	2	11	3	43	13/06/2013
408	3780	41	19	32	1	31	3	2	8	3	39	13/06/2013
409	3780	41	20	30	1	29	4	3	24	4	53	13/06/2013
410	3780	48	1	39	2	28	3	3	73	4	101	15/06/2013

411	3780	48	2	37	2	26	4	3	43	4	69		15/06/2013
412	3780	48	3	37	2		5						15/06/2013
413	3780	48	4	35	1	21	4	3	26	3	47		15/06/2013
414	3780	48	5	37	1	29	4		34	3	63	LA	15/06/2013
415	3780	48	6	34	1	21	4	3	42	3	63		15/06/2013
416	3780	48	7	37	2	29	4	2	73	4	102		15/06/2013
417	3780	48	8	45	2	34	4	3	74	4	108		15/06/2013
418	3780	48	9	39	2	24	3	3	41	4	65		15/06/2013
419	3780	48	10	33	1	23	4	3	86	4	109		15/06/2013
420	3780	48	11	40	2		5						15/06/2013
421	3780	48	12	38	2	28	4	3	75	4	103	LA	15/06/2013
422	3780	51	1	36	2	88	4				88		16/06/2013
423	3780	51	2	32	1	28	4	3	10	2	38		16/06/2013
424	3780	51	3	31	2	29	4	3	5	3	34		16/06/2013
425	3780	51	4	32	1	25	4	3	60	4	85		16/06/2013
426	3780	51	5	35	1	28	4	3	30	4	58		16/06/2013
427	3780	51	6	37	2	22	4	3	14	4	36		16/06/2013
428	3780	51	7	29	1	34	3	3			34		16/06/2013
429	3780	51	8	33	1	49	4	3			49	LA	16/06/2013
430	5380	29	35	30	1	26	3	1	6	2	32		8/07/2018
431	3780	51	10	36	2	26	3	2	21	4	47		16/06/2013
432	3780	51	11	34	2	24	2	3	48	4	72		16/06/2013
433	3780	51	12	35	2	30	4	3	13	3	43		16/06/2013
434	3780	51	13	34	1	28	3	2	58	4	86		16/06/2013
435	3780	51	14	32	2	20	3	2	20	4	40		16/06/2013
436	3780	51	15	31	1	23	4	2	15	3	38		16/06/2013
437	3780	51	16	32	1	25	3	2	19	3	44		16/06/2013
438	5380	29	31	30	1	24	3	2	20	4	44		8/07/2018
439	5380	29	17	30	1		5						8/07/2018
440	5380	29	11	35	2	30	4	2	27	3	57		8/07/2018
441	5380	29	6	32	2	27	4	2	27	3	54		8/07/2018
442	5380	29	5	27	1	23	3	2	15	4	38		8/07/2018
443	5380	29	1	31	2	42	4	3			42		8/07/2018
444	5380	28	5	32	2	32	4	3			32		7/07/2018
445	5380	28	4	35	2		5						7/07/2018
446	5380	28	3	32	1	51	4	3			51		7/07/2018
447	5380	28	2	32	1	34	4	2	14	4	48		7/07/2018
448	5380	28	1	34	2	23	3	2	47	4	70		7/07/2018
449	5380	22	78	30	1	29	4	2	15	4	44		5/07/2018
450	5380	22	74	32	1	20	3	2	72	4	92		5/07/2018
451	3787	20	1	35	1	29	3	2	36	3	65		25/06/2013
452	3787	20	2	33	1	33	4	2	11	4	44		25/06/2013
453	3787	20	3	30	1	25	4	2	13	4	38		25/06/2013
454	3787	20	4	36	1	42	2	3			42		25/06/2013
455	3787	20	5	32	1	40	2	3			40		25/06/2013
456	3787	20	6	35	2	26	2	2	101	3	127		25/06/2013
457	3787	20	8	37	1	21	2	2	41	4	62		25/06/2013
458	3787	20	9	34	1	30	2	2	15	4	45		25/06/2013
459	3787	20	10	34	1	27	3	2	54	3	81		25/06/2013
460	3787	20	11	33	1	24	3	2	43	4	67		25/06/2013
461	3787	20	12	37	1	30	4	2	45	3	75		25/06/2013
462	3787	28	1	35	2	24	3	2	21	3	45		26/06/2013
463	3787	28	2	32	1	53	3	3			53		26/06/2013
464	3787	28	3	34	1	25	2	2	38	3	63		26/06/2013
465	3787	28	4	32	2	26	3	2	36	3	62		26/06/2013
466	3787	28	5	35	2	20	3	2	50	4	70		26/06/2013
467	3787	28	6	32	2		5						26/06/2013
468	3787	28	7	33	2	23	3	2	52	4	75		26/06/2013
469	3787	28	8	33	1	22	3	2	27	4	49		26/06/2013
470	3787	28	9	40	2	23	4	2	77	4	100		26/06/2013

471	3787	28	10	32	1	29	4	3	29	4	58	26/06/2013
472	3793	13	1	29	2	25	3	2	9	4	34	24/06/2013
473	3793	13	2	34	2	27	4	2	16	4	43	24/06/2013
474	3793	13	3	35	1		5					24/06/2013
475	3793	13	4	31	2	26	2	0			26	24/06/2013
476	3793	13	5	27	2	28	2	0			28	24/06/2013
477	3793	13	6	29	2	21	4	2	13	3	34	24/06/2013
478	3793	13	7	34	2	25	4	2	39	4	64	24/06/2013
479	3793	13	8	31	1	35	4	3			35	24/06/2013
480	3793	18	1	33	1	19	4	2	72	4	91	25/06/2013
481	3793	18	2	31	1	27	3	2	14	4	41	25/06/2013
482	3793	18	3	31	1	32	4	2	16	4	48	25/06/2013
483	3793	18	4	37	1	29	4	2	35	4	64	25/06/2013
484	3793	18	5	32	2	25	3	0			25	25/06/2013
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486	3793	18	7	35	1	22	4	2	24	4	46	25/06/2013
487	3793	18	8	31	2	29	4	3			29	LA 25/06/2013
488	3793	18	9	32	1	29	4	2	12	4	41	25/06/2013
489	3793	18	10	31	2	24	4	2	17	3	41	25/06/2013
490	3793	21	1	33	2	21	4	2	36	3	57	25/06/2013
491	3793	21	2	33	2	21	4	3	30	4	51	25/06/2013
492	3793	21	3	38	2	29	4	2	53	3	82	25/06/2013
493	3793	21	4	29	1	28	4					25/06/2013
494	3793	21	5	35	2	21	4	2	52	4	73	25/06/2013
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496	3793	21	7	36	2	22	4	2	40	3	62	25/06/2013
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499	3793	21	10	35	2	22	4	2	38	4	60	25/06/2013
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506	3793	21	17	34	2	51	4				51	25/06/2013
507	3793	21	18	38	2	23	4	2	41	3	64	LA 25/06/2013
508	3793	28	1	28	1	31	4	2	11	4	42	27/06/2013
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510	3793	28	3	31	1	40	3				40	LA 27/06/2013
511	3793	28	4	31	1	23	4	2	17	3	40	LA 27/06/2013
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514	3793	28	7	32	1	29	4	2	19	4	48	27/06/2013
515	3793	28	8	40	2	26	4	2	42	4	68	27/06/2013
516	3793	28	9	32	1	27	3	2	24	3	51	27/06/2013
517	3793	28	10	33	1	29	3	2	28	4	57	27/06/2013
518	3793	35	1	31	1	29	4	2	14	3	43	29/06/2013
519	3793	35	2	37	2	22	3	2	42	3	64	29/06/2013
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522	3793	35	5	36	1	23	3	2	25	3	48	LA 29/06/2013
523	3793	35	6	32	1	30	4	2	36	4	66	29/06/2013
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525	3793	35	8	32	1	27	4				27	29/06/2013
526	3793	35	9	34	1	28	3	2	18	4	46	29/06/2013
527	3793	35	10	32	2	27	4	2	25	3	52	29/06/2013
528	5380	22	69	37	1	27	4	2	44	4	71	5/07/2018
529	3793	35	12	28	1	29	4	3			29	29/06/2013
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531	3793	35	14	40	2	19	4	2	75	4	94		29/06/2013
532	3793	35	15	33	2		5						29/06/2013
533	3793	35	16	31	1	26	4	2	30	4	56	LA	29/06/2013
534	3793	35	17	32	1	21	4	2	25	3	46		29/06/2013
535	3793	35	18	31	1	29	3	2	8	3	37	LA	29/06/2013
536	3793	45	1	37	1	23	3	2	49	4	72		30/06/2013
537	3793	45	2	32	1	35	4				35		30/06/2013
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539	3793	45	4	35	2		5						30/06/2013
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541	3793	45	6	33	1	22	4	2	33	4	55		30/06/2013
542	3793	45	7	31	2	30	4	0			30		30/06/2013
543	3793	45	8	35	2	30	4	2	17	4	47		30/06/2013
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550	3793	45	15	33	2	22	3	2	45	4	67		30/06/2013
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552	3793	45	17	34	2	24	4	2	46	4	70		30/06/2013
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554	3793	49	1	35	1	26	4	2	21	4	47	LA	1/07/2013
555	3793	49	2	35	2	47	4	3			47		1/07/2013
556	3793	49	3	31	1	29	4	2	14	3	43		1/07/2013
557	3793	49	4	38	2	23	4	2	34	3	57		1/07/2013
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566	3793	49	13	37	2	24	4	2	45	3	69		1/07/2013
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568	3793	49	15	32	1	26	4	2	21	4	47		1/07/2013
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571	3793	49	18	39	2	22	4	2	49	4	71		1/07/2013
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573	3793	59	2	33	1	25	3	2	6	4	31		2/07/2013
574	3793	59	3	32	2	34	4	3			34		2/07/2013
575	3793	59	4	31	1	25	3	2	19	4	44	LA	2/07/2013
576	3793	59	5	25	1	25	3	2	26	3	51		2/07/2013
577	3793	59	6	34	1	26	4	2	40	4	66		2/07/2013
578	3793	59	7	36	2	24	4	2	41	4	65	LA	2/07/2013
579	3793	59	8	30	1	39	4	3			39		2/07/2013
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583	3793	61	2	34	1	31	3	2	19	4	50	LA	2/07/2013
584	3793	61	3	35	1	23	2	2	38	4	61		2/07/2013
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586	3793	61	5	34	1	29	2	2	43	3	72		2/07/2013
587	3793	61	6	33	1	31	4	2	64	4	95		2/07/2013
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589	3793	61	8	33	1	31	4	2	18	4	49		2/07/2013
590	3793	61	9	32	1	23	4	2	41	4	64		2/07/2013





651	5346	34	46	31	1	27	4	2	18	4	45		13/06/2018
652	5346	34	49	35	2	29	4	2	23	4	52		13/06/2018
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656	5346	34	65	36	2	23	4	2	21	4	44	LA	13/06/2018
657	5346	34	75	38	2		5					LA	13/06/2018
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671	5346	39	44	33	2	28	3	2	15	4	43		14/06/2018
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674	5346	39	52	30	1	24	4	2	18	3	42		14/06/2018
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676	5346	39	68	28	1	28	4	2	11	4	39		14/06/2018
677	5346	39	74	32	1	28	3	2	12	3	40		14/06/2018
678	5346	43	2	34	2	28	4	2	23	4	51		14/06/2018
679	5346	43	4	32	1	26	3	2	30	4	56		14/06/2018
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684	5346	43	27	36	2	25	3	2	42	3	67		14/06/2018
685	5346	43	30	29	2	29	3	2	10	4	39		14/06/2018
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700	5346	46	24	37	2	31	4	2	63	4	94		15/06/2018
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707	5346	46	36	33	2	24	3	2	34	4	58		15/06/2018
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709	5346	46	48	33	1	48	4	3			48		15/06/2018
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711	5346	46	51	30	2	28	3	2	9	4	37	15/06/2018
712	5346	46	52	36	2	29	3	2	41	4	70	15/06/2018
713	5346	46	56	34	2	25	3	2	26	4	51	15/06/2018
714	5346	46	59	33	2	23	3	2	45	4	68	15/06/2018
715	5346	46	60	35	2	24	3	2	37	4	61	15/06/2018
716	5346	46	63	32	2	21	3	3			21	15/06/2018
717	5346	46	75	30	2	31	3	3			31	15/06/2018
718	5346	50	2	33	1	19	3	2	41	4	60	16/06/2018
719	5346	50	3	33	2	34	4	2	32	4	66	16/06/2018
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721	5346	50	5	36	1	28	4	2	19	4	47	16/06/2018
722	5346	50	6	34	2	25	3	2	28	4	53	16/06/2018
723	5346	54	1	32	1	22	4	2	34	4	56	17/06/2018
724	5346	54	2	30	1	39	4	3			39	17/06/2018
725	5346	54	3	31	2	37	4	3			37	17/06/2018
726	5346	54	4	33	1	27	4	2	28	4	55	17/06/2018
727	5346	54	5	33	2	32	4	3			32	17/06/2018
728	5346	59	1	33	1	23	4	2	56	4	79	18/06/2018
729	5346	59	2	28	2	29	4	3			29	18/06/2018
730	5346	59	3	35	2	28	2	2	48	3	76	18/06/2018
731	5346	59	4	35	2	24	3	2	34	3	58	18/06/2018
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733	5346	65	6	30	2	26	4	2	53	4	79	23/06/2018
734	5346	65	15	32	1	44	4	3			44	23/06/2018
735	5346	65	16	29	1	27	4	3			27	23/06/2018
736	5346	65	18	35	2	43	4	3			43	23/06/2018
737	5346	65	20	34	2	28	3	2	34	3	62	23/06/2018
738	5346	65	24	28	1	38	4	3			38	23/06/2018
739	5346	65	27	36	2	25	3	2	36	4	61	23/06/2018
740	5346	65	40	28	1	29	4	3			29	23/06/2018
741	5346	65	41	31	1	25	4	2	7	3	32	23/06/2018
742	5346	65	43	32	1	28	4	2	5	3	33	23/06/2018
743	5346	65	44	38	2	44	4	3			44	23/06/2018
744	5346	65	48	30	2		5					23/06/2018
745	5346	65	55	36	2	28	3	2	14	2	42	23/06/2018
746	5346	65	58	31	2	25	3	2	36	3	61	23/06/2018
747	5346	65	63	26	1	22	3	2	16	3	38	23/06/2018
748	5346	65	65	36	1	24	3	2	46	3	70	23/06/2018
749	5346	65	71	37	2	25	3	2	47	4	72	23/06/2018
750	5346	65	73	32	1	43	4	3			43	23/06/2018
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752	5346	65	78	29	1	30	3	2	23	4	53	23/06/2018
753	5346	67	1	34	2	25	4	2	26	4	51	23/06/2018
754	5346	67	7	30	2	27	4	2	16	4	43	23/06/2018
755	5346	67	10	34	2	32	4	2	24	4	56	23/06/2018
756	5346	67	16	29	2	24	3	2	22	4	46	23/06/2018
757	5346	67	18	31	1	31	3	3			31	23/06/2018
758	5346	67	22	34	2	26	3	2	33	3	59	23/06/2018
759	5346	67	24	36	2	25	3	2	49	4	74	23/06/2018
760	5346	67	28	33	2	26	3	2	24	4	50	23/06/2018
761	5346	67	31	35	2	23	4	2	40	4	63	LA 23/06/2018
762	5346	67	32	33	2	25	4	2	49	4	74	23/06/2018
763	5346	67	34	34	2	22	4	2	20	4	42	23/06/2018
764	5346	67	45	36	2	81	4	3			81	23/06/2018
765	5346	67	46	33	2	22	4	2	45	4	67	LA 23/06/2018
766	5346	67	51	37	2	28	4	2	73	4	101	23/06/2018
767	5346	67	54	33	2	27	4	2	41	4	68	23/06/2018
768	5346	67	58	34	2	22	4	2	28	4	50	23/06/2018
769	5346	67	64	38	2	23	3	2	18	4	41	23/06/2018
770	5346	67	66	30	2	37	4	3			37	23/06/2018

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774	5346	73	2	32	1	24	4	2	29	4	53	24/06/2018
775	5346	73	3	33	1	18	4	2	52	3	70	24/06/2018
776	5346	73	4	33	1	22	4	2	25	4	47	24/06/2018
777	5346	73	5	35	1	44	4	3			44	24/06/2018
778	5346	81	1	35	1	32	4	2	57	4	89	27/06/2018
779	5346	81	2	32	1	25	3	2	4	3	29	27/06/2018
780	5346	81	3	32	1	27	4	2	11	4	38	27/06/2018
781	5346	81	4	33	1	20	3	2	20	4	40	27/06/2018
782	5346	81	5	38	2	29	4	2	58	4	87	27/06/2018
783	5346	85	1	40	1	23	4	2	63	4	86	28/06/2018
784	5346	85	2	33	1	27	4	2	19	4	46	28/06/2018
785	5346	85	3	31	1	31	4	3			31	28/06/2018
786	5346	85	4	34	1	73	4	3			73	LA 28/06/2018
787	5346	85	5	31	1	25	4	1	23	3	48	28/06/2018
788	5346	88	2	36	2		5					28/06/2018
789	5346	88	8	35	2	26	3	2	62	4	88	28/06/2018
790	5346	88	20	35	2	21	4	2	48	4	69	28/06/2018
791	5346	88	23	38	2	23	4	2	56	4	79	28/06/2018
792	5346	88	24	31	2	27	4	1	15	3	42	28/06/2018
793	5346	88	27	33	2	26	4	2	14	3	40	28/06/2018
794	5346	88	30	32	2	27	4	2	28	4	55	28/06/2018
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815	5346	110	20	37	2	25	4	2	84	4	109	3/07/2018
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818	5346	110	31	30	2	23	4	2	40	4	63	3/07/2018
819	5346	110	42	31	2	19	4	2	23	3	42	3/07/2018
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821	5346	110	45	34	2	27	4	3			27	3/07/2018
822	5346	110	47	36	2	24	3	1	30	3	54	3/07/2018
823	5346	110	53	38	2	28	4	2	50	4	78	3/07/2018
824	5380	22	65	31	2	23	3	2	36	4	59	5/07/2018
825	5346	110	61	31	2	53	3	3			53	3/07/2018
826	5346	110	73	28	2	28	3	2	3		31	3/07/2018
827	5346	110	75	35	2	29	3	2	48	4	77	3/07/2018
828	5349	96	9	28	1	48	4	3			48	30/06/2018
829	5349	96	15	30	1	25	3	2	28	4	53	30/06/2018
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831	5349	96	19	28	1	34	4	3			34	LA	30/06/2018
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833	5349	96	22	38	1	30	4	2	60	4	90		30/06/2018
834	5349	96	23	34	1	30	3	2	24	3	54		30/06/2018
835	5349	96	25	31	1	25	4	2	26	4	51		30/06/2018
836	5349	96	26	39	2	65	4	3			65		30/06/2018
837	5349	96	33	34	2	51	4	3			51	LA	30/06/2018
838	5349	96	36	32	2	58	4	3			58		30/06/2018
839	5349	96	37	29	1	30	4	2	11	4	41	LA	30/06/2018
840	5349	96	40	28	1	28	4	2	35	4	63		30/06/2018
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848	5349	142	9	32	2	25	4	2	28	4	53		12/07/2018
849	5349	142	13	34	2	53	4	3			53	LA	12/07/2018
850	5349	142	16	32	2	66	4	3			66		12/07/2018
851	5349	142	18	31	2	28	4	3			28		12/07/2018
852	5349	142	21	35	2	30	4	2	25	4	55		12/07/2018
853	5349	142	24	33	1	28	4	2	31	4	59	LA	12/07/2018
854	5349	142	31	27	2	34	4	3			34		12/07/2018
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857	5349	142	40	37	2	25	4	2	45	4	70		12/07/2018
858	5349	142	41	37	2	26	4	2	39	4	65		12/07/2018
859	5349	142	46	34	1	25	4	2	22	4	47	LA	12/07/2018
860	5349	142	49	34	2	63	4	3			63		12/07/2018
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862	5349	142	58	30	2	27	4	2	32	4	59		12/07/2018
863	5349	142	61	38	2	57	4	3			57		12/07/2018
864	5349	142	64	36	2	53	4	3			53		12/07/2018
865	5349	142	65	37	2	28	4	2	56	4	84	LA	12/07/2018
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868	5350	11	1	31	2	24	4	2	15	4	39		1/06/2018
869	5350	11	2	34	2	24	4	2	59	4	83		1/06/2018
870	5350	11	3	28	1	27	4	0			27		1/06/2018
871	5350	11	4	31	1	21	4	2	17	4	38	LA	1/06/2018
872	5350	11	5	40	2	31	4	2	36	4	67		1/06/2018
873	5350	12	1	30	2	24	3	2	16	4	40		8/06/2018
874	5350	12	2	35	2	24	4	2	34	3	58		8/06/2018
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876	5350	12	4	33	3	58	4	3			58	LA	8/06/2018
877	5350	12	5	33	2	28	4	2	34	3	62		8/06/2018
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879	5350	13	2	31	1	22	3	0			22	LA	8/06/2018
880	5350	13	3	31	2	26	3	2	4	3	30		8/06/2018
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883	5350	14	1	32	2	27	4	2	9	4	36		9/06/2018
884	5350	14	5	30	2	32	4	3			32		9/06/2018
885	5350	14	11	36	2	27	3	2	17	4	44		9/06/2018
886	5350	14	12	37	2	64	4	3			64		9/06/2018
887	5350	14	13	32	1	28	4	3	11	4	39		9/06/2018
888	5350	15	1	40	2	26	4	2	27	4	53		10/06/2018
889	5350	15	2	38	2	24	4	2	50	4	74		10/06/2018
890	5350	15	3	31	1	29	3	2	10	3	39		10/06/2018

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892	5350	15	5	34	2	28	4	2	19	4	47		10/06/2018
893	5350	16	13	35	2	28	4	2	43	4	71		10/06/2018
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895	5350	16	19	36	2	26	4	2	29	4	55		10/06/2018
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897	5350	17	16	36	2	22	3	2	17	4	39		11/06/2018
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899	5350	17	18	35	2	25	4	2	74	3	99		11/06/2018
900	5350	17	19	29	2	21	4	2	14	4	35		11/06/2018
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902	5350	18	1	35	2	30	4	2	35	3	65		11/06/2018
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904	5350	18	3	34	1	25	3	2	17	3	42	LA	11/06/2018
905	5350	18	4	29	1	26	3	0			26		11/06/2018
906	5350	18	5	37	2	28	4	2	15	3	43		11/06/2018
907	5350	18	6	23	1	23	2	0			23		11/06/2018
908	5380	22	64	31	1	44	4	3			44		5/07/2018
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912	5350	19	5	38	2	73	4	3			73		12/06/2018
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914	5350	20	2	30	2	20	4	2	22	4	42		13/06/2018
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916	5350	20	4	35	2	21	4	2	71	4	92		13/06/2018
917	5350	20	5	28	2	29	4	2	15	4	44		13/06/2018
918	5350	21	1	34	2		5						13/06/2018
919	5350	21	2	31	2	30	4	2	15	4	45		13/06/2018
920	5350	21	3	32	2	21	4	2	10	3	31	LA	13/06/2018
921	5350	21	4	28	1	28	2	0			28	LA	13/06/2018
922	5350	21	5	34	2	25	3	2	39	4	64		13/06/2018
923	5350	22	1	33	2	24	2	2	12	3	36		14/06/2018
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926	5350	22	4	33	2	28	3	2	13	2	41		14/06/2018
927	5350	22	5	23	1	22	2	0			22		14/06/2018
928	5350	23	1	30	1	47	4	3			47		14/06/2018
929	5350	23	2	32	1	40	4	3			40		14/06/2018
930	5350	23	3	21	2	17	2	0			17		14/06/2018
931	5350	23	4	36	2	62	4	3			62	LA	14/06/2018
932	5350	23	5	36	2	23	3	2	41	3	64		14/06/2018
933	5350	24	7	42	2	87	4	3			87		15/06/2018
934	5350	24	11	41	2	47	4	3			47		15/06/2018
935	5350	24	12	39	2	30	3	2	27	4	57		15/06/2018
936	5350	24	13	28	1	22	4	2	15	3	37	LA	15/06/2018
937	5350	24	14	25	1	26	3	0			26		15/06/2018
938	5350	25	1	33	1	29	3	2	17	3	46		15/06/2018
939	5350	25	2	34	2	28	3	2	14	4	42	LA	15/06/2018
940	5350	25	3	34	2	50	3	3			50	LA	15/06/2018
941	5350	25	4	32	2	28	3	2	14	3	42		15/06/2018
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943	5350	26	1	40	2	89	4	3			89		16/06/2018
944	5350	26	2	36	2	28	3	2	32	4	60		16/06/2018
945	5350	26	3	37	2	25	4	2	34	3	59		16/06/2018
946	5350	26	4	37	2	28	3	1	45	2	73		16/06/2018
947	5350	26	5	36	2	27	3	2	34	2	61		16/06/2018
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964	5350	31	2	38	2	27	4	2	33	4	60	18/06/2018
965	5350	31	3	33	2	27	4	0			27	LA 18/06/2018
966	5350	31	4	35	2	21	3	2	21	3	42	18/06/2018
967	5350	31	5	37	2	59	4	3			59	18/06/2018
968	5350	32	1	34	2	22	4	2	29	4	51	19/06/2018
969	5350	32	2	35	2		5					19/06/2018
970	5350	32	3	30	2	23	3	2	8	3	31	19/06/2018
971	5350	32	4	33	2	25	3	2	6	3	31	19/06/2018
972	5350	32	5	31	2	23	3	2	20	4	43	19/06/2018
973	5350	33	1	39	2	26	3	2	24	3	50	19/06/2018
974	5350	33	2	38	2	75	4	3			75	19/06/2018
975	5350	33	3	31	2	30	4	2	13	4	43	19/06/2018
976	5350	33	4	38	2	21	4	2	39	4	60	19/06/2018
977	5350	33	5	35	2	26	4	2	35	4	61	19/06/2018
978	5350	48	4	37	2	30	3	2	16	4	46	LA 28/06/2018
979	5350	48	5	34	2	26	4	2	29	4	55	28/06/2018
980	5350	48	6	39	2	64	4	3			64	28/06/2018
981	5350	48	8	35	2	24	4	2	26	4	50	LA 28/06/2018
982	5350	48	12	38	2	29	4	2	54	3	83	28/06/2018
983	5350	48	14	31	1	23	4	2	18	4	41	28/06/2018
984	5350	48	20	33	1	26	4	2	37	4	63	28/06/2018
985	5350	48	23	31	2	33	3	3			33	28/06/2018
986	5350	48	24	37	2	29	4	2	18	4	47	LA 28/06/2018
987	5350	48	26	39	2	25	3	2	32	4	57	28/06/2018
988	5350	48	27	36	2	21	4	2	25	4	46	28/06/2018
989	5350	48	29	30	2	23	3	2	28	4	51	28/06/2018
990	5350	48	31	32	1	26	3	2	11	3	37	28/06/2018
991	5350	48	32	38	2	28	4	2	34	3	62	28/06/2018
992	5350	48	33	25	1	24	3	1	44	3	68	28/06/2018
993	5350	48	38	33	2	28	3	2	12	3	40	28/06/2018
994	5350	48	45	30	1	24	3	2	8	3	32	28/06/2018
995	5350	48	59	34	1	24	3	2	27	3	51	28/06/2018
996	5350	48	69	34	2	38	4	3			38	28/06/2018
997	5350	48	71	33	2	41	4	3			41	LA 28/06/2018
998	5350	48	75	32	2	34	4	3			34	28/06/2018
999	5350	48	76	32	1	28	2	2	20	2	48	LA 28/06/2018
1000	5350	48	77	34	1	29	4	2	20	3	49	28/06/2018
1001	5350	49	1	36	2	76	3	3			76	28/06/2018
1002	5350	49	2	35	2	30	3	2	16	4	46	28/06/2018
1003	5350	49	3	35	2	24	4	2	71	4	95	28/06/2018
1004	5350	49	4	30	2	29	4	3			29	28/06/2018
1005	5350	49	5	36	2	25	3	2	40	3	65	28/06/2018
1006	5350	50	1	34	2	21	4	2	51	4	72	29/06/2018
1007	5350	50	2	37	2	30	4	2	45	4	75	29/06/2018
1008	5350	50	3	37	2	26	3	2	28	4	54	29/06/2018
1009	5380	46	4	30	1	28	4	2	24	4	52	LA 14/07/2018
1010	5350	50	5	35	2	31	4	2	23	4	54	29/06/2018

1011	5350	51	4	32	1	23	4	2	35	4	58		29/06/2018
1012	5350	51	6	35	2		5						29/06/2018
1013	5350	51	11	31	2	27	4	3			27	LA	29/06/2018
1014	5350	51	16	33	1	22	4	2	11	3	33		29/06/2018
1015	5350	51	22	28	1	20	3	2	16	3	36		29/06/2018
1016	5350	51	29	30	1	30	3	3			30		29/06/2018
1017	5350	51	41	30	1	23	2	3	19	3	42		29/06/2018
1018	5350	51	42	28	1	28	3	3			28		29/06/2018
1019	5350	51	45	38	2	24	4	2	24	3	48		29/06/2018
1020	5350	51	50	32	1	24	4	3			24		29/06/2018
1021	5350	51	52	37	1	26	4	2	33	3	59		29/06/2018
1022	5350	51	53	29	1	29	3	3			29		29/06/2018
1023	5350	51	59	28	1	21	4	0			21		29/06/2018
1024	5350	51	60	31	2	23	4	2	27	4	50		29/06/2018
1025	5350	51	65	30	2		5						29/06/2018
1026	5350	51	69	30	1	24	3	1	23	4	47		29/06/2018
1027	5350	51	71	32	1	24	4	3		5			29/06/2018
1028	5350	51	72	35	1	21	4	2	62	4	83		29/06/2018
1029	5350	51	73	36	1	22	4	2	22	4	44		29/06/2018
1030	5350	51	74	31	1	28	4	1	20	3	48	LA	29/06/2018
1031	5350	52	1	37	2	31	4	2	36	4	67		30/06/2018
1032	5350	52	2	37	2	28	4	2	20	4	48		30/06/2018
1033	5350	52	3	36	2	28	3	2	26	3	54		30/06/2018
1034	5350	52	4	36	2	31	4	2	63	3	94		30/06/2018
1035	5380	46	5	33	2	29	3	2	14	3	43		14/07/2018
1036	5360	17	2	33	1	26	3	2	20	3	46		16/06/2018
1037	5360	17	5	35	2	24	4	2	23	3	47		16/06/2018
1038	5360	17	6	33	2	30	3	2	5	3	35		16/06/2018
1039	5360	17	8	36	1	59	4	3			59		16/06/2018
1040	5360	17	19	34	2	30	3	2	11	4	41		16/06/2018
1041	5360	17	28	34	2	46	3	3			46		16/06/2018
1042	5380	46	6	35	1	34	4	3			34		14/07/2018
1043	5360	17	35	37	2	25	4	2	26		51	LA	16/06/2018
1044	5360	17	38	34	1	23	3	2	23	4	46		16/06/2018
1045	5360	17	39	29	1	34	4	3			34		16/06/2018
1046	5360	17	42	32	1	28	4	2	37	4	65		16/06/2018
1047	5360	17	50	38	2	23	4	2	25	4	48		16/06/2018
1048	5360	17	52	32	1	23	4	2	26	4	49		16/06/2018
1049	5360	17	54	31	1	24	4	2	11	4	35		16/06/2018
1050	5360	17	56	29	1	30	3	0			30		16/06/2018
1051	5360	17	58	32	1	21	3	2	20	3	41		16/06/2018
1052	5360	17	62	32	1	26	4	2	15	4	41		16/06/2018
1053	5360	17	64	31	2	53	4	3			53		16/06/2018
1054	5360	17	66	33	2	39	4	3			39		16/06/2018
1055	5360	17	68	32	1	29	3	2	39	2	68		16/06/2018
1056	5360	20	1	31	1	33	4	3			33		17/06/2018
1057	5360	20	2	31	1	28	3	3			28	LA	17/06/2018
1058	5360	20	3	34	2	65	4	3			65		17/06/2018
1059	5360	20	4	31	1	23	4	2	13	3	36		17/06/2018
1060	5360	20	5	30	1	23	4	2	3	4	26		17/06/2018
1061	5360	26	2	32	2	28	3	2	7	3	35		18/06/2018
1062	5380	48	1	33	1	29	3	2	38	4	67		15/07/2018
1063	5360	26	7	36	2	44	3	3			44		18/06/2018
1064	5360	26	13	34	2	85	4	3			85		18/06/2018
1065	5360	26	16	27	2	21	3	0			21	LA	18/06/2018
1066	5360	26	21	33	1	26	3	1	13	3	39	LA	18/06/2018
1067	5360	26	23	36	2	20	3	2	59	3	79		18/06/2018
1068	5360	26	25	36	2	29	4	2	13	4	42	LA	18/06/2018
1069	5360	26	30	34	2	28	4	2	52	4	80		18/06/2018
1070	5360	26	38	35	2	27	4	3			27		18/06/2018

1071	5380	48	2	39	2	30	4	2	16	4	46		15/07/2018
1072	5360	26	41	31	1	23	4	2	18	3	41		18/06/2018
1073	5360	26	43	33	2	30	3	2	24	3	54	LA	18/06/2018
1074	5360	26	48	34	1	56	4	3			56		18/06/2018
1075	5360	26	50	34	1	28	4	3			28		18/06/2018
1076	5360	26	53	34	1	54	4	3			54		18/06/2018
1077	5380	48	3	34	1	22	4	2	50	4	72		15/07/2018
1078	5380	48	4	31	1	29	3	2	37	4	66		15/07/2018
1079	5380	48	5	30	1	31	4	3			31		15/07/2018
1080	5404	2	1	39	2	26	4	2	9	3	35		20/07/2018
1081	5404	2	2	48	2	30	4	2	43	4	73	LA	20/07/2018
1082	5360	28	1	33	1	30	4	2	15	3	45		19/06/2018
1083	5404	2	3	40	2	28	3	2	39	3	67		20/07/2018
1084	5360	28	3	33	1	28	3	2	7	4	35	LA	19/06/2018
1085	5360	28	4	32	2	24	3	2	46	4	70		19/06/2018
1086	5360	28	5	30	1	35	4	3			35		19/06/2018
1087	5380	1	5	33	1	38	4	3			38		23/06/2018
1088	5380	1	7	38	2	29	4	2	18	3	47		23/06/2018
1089	5380	1	8	40	2	25	3	2	90	4	115		23/06/2018
1090	5380	1	9	34	2	24	3	2	64	4	88		23/06/2018
1091	5380	1	13	30	2	23	3	2	8	3	31		23/06/2018
1092	5380	2	2	37	2	43	3	3			43		24/06/2018
1093	5380	2	3	30	1	38	4	3			38		24/06/2018
1094	5380	2	7	33	1	20	3	2	29	4	49		24/06/2018
1095	5380	2	8	35	1	5							24/06/2018
1096	5380	2	10	32	1	25	3	2	15	3	40		24/06/2018
1097	5380	19	1	39	2	26	4	2	65	4	91		4/07/2018
1098	5380	19	5	35	1	23	4	2	17	4	40		4/07/2018
1099	5380	19	6	35	2	24	3	2	15	3	39		4/07/2018
1100	5380	19	7	31	1	27	3	2	14	4	41		4/07/2018
1101	5380	19	8	34	1	24	3	2	34	3	58		4/07/2018
1102	5380	21	1	30	1	38	4	3			38		5/07/2018
1103	5380	21	2	36	1	53	4	3			53		5/07/2018
1104	5380	21	5	34	1	25	4	2	9	4	34		5/07/2018
1105	5380	21	7	36	2	41	4	3			41		5/07/2018
1106	5380	21	8	31	1	29	4	2	5	4	34		5/07/2018
1107	5380	22	1	37	1	24	4	2	19	4	43		5/07/2018
1108	5380	22	2	39	1	24	4	2	77	4	101		5/07/2018
1109	5380	22	12	28	2	24	4	0			24		5/07/2018
1110	5380	22	16	36	2	22	4	2	37	4	59		5/07/2018
1111	5380	22	21	35	1	24	3	2	27	4	51		5/07/2018
1112	5380	22	24	30	2	53	4	3			53		5/07/2018
1113	5380	22	31	33	1	24	3	2	14	3	38		5/07/2018
1114	5380	22	34	30	1	21	4	2	9	3	30		5/07/2018
1115	5380	22	40	31	2	24	3	2	16	3	40		5/07/2018
1116	5380	22	43	34	2	26	3	2	18	3	44		5/07/2018
1117	5380	22	53	33	2	27	4	2	29	3	56		5/07/2018
1118	5380	22	54	33	2	29	4	2	38	4	67		5/07/2018
1119	5380	22	58	33	2	25	4	2	47	4	72		5/07/2018