

- 5) 7 June: from 418 river AON – the author noted 8 x 1 and 2 x 2 small chicks (+ 16 attended trace nests).
- 6) 9 June: from 227 river AON, 1 small chick seen (+ 11 attended trace nests).
- 7) 10 June: 224 AON at Tynemouth cliffs, but no chicks seen (+27 attended trace nests).
- 8) Site visit by the author to Port of Tyne (10.06.16, with prior arrangement), accompanied by Stuart McLeod (Head of Environment), to view the McNulty engineering workshop. There was no kittiwake presence. A nesting pair of peregrine falcons had been reported from within the building. In the view of the author the building is currently unsuitable for nesting kittiwakes due to the work that continues on this land. Building surveys indicate the workshop is in poor repair and should be demolished along with adjacent buildings left from when McNulty Offshore ran the site. Port of Tyne hope to demolish these in quarter one of 2017 depending on planning approval. Stuart McLeod today indicated their kittiwake tower cost £70,000 to refurbish and put in position (March 2014); there are no plans to move it in the foreseeable future. This is a considerable sum of money and shows good commitment by the Port of Tyne.
- 9) By end of 11 July – from 443 AON there were 387 chicks i.e. 0.87 productivity
- 10) By end of 12 July – from 645 AON there were 532 chicks i.e. 0.82 productivity
- 11) On 12 July p.m. the first four fledged juveniles were seen – they were on the river, with many adults, between Newcastle and Gateshead quaysides (between the Millennium Bridge and the Tyne Bridge). One of the Newcastle quayside business men spoke with the author (pleasantly).
- 12) On 13 July p.m. two or three fledged juveniles were present i.e. one or two on the river and another on a quayside building top. The author showed four passers-by (at Newcastle quayside) chicks and adults at nest sites through his telescope – they asked many questions. He also spoke with another two women who quizzed him as he passed the Baltic with all his equipment.
- 13) By end of 13 July – from 1,062 AON there were 861 chicks i.e. 0.81 productivity, plus an additional 4 – 7 fledged juveniles had been seen by then.
- 14) One of the north girders of the Tyne Bridge nests may have held 3 chicks, but counted as 2.
- 15) Nest failure of Newcastle quayside buildings, excluding Guildhall, 49% (34 nests failed)
- 16) Newcastle quayside buildings: productivity and nest failure % bracketed due to small AONs
- 17) Four surveys were undertaken at International Coatings by Kathy Evans (see Table 7); all other surveys reported here were performed by the author.

Part Two: Individual Tables

Table 2. Tyne Bridge north abutment, 2016

Aspect	AON 18 June 2016	Chick clutches 13 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
North	83	54 x 1, 12 x 2	78	0.94	20 %
South	124	64 x 1, 17 x 2	98	0.79	35 %
East	73	37 x 1, 6 x 2	49	0.67	41 %
West	72	43 x 1, 8 x 2	59	0.82	29 %
Total	352	198 x 1, 43 x 2	284	0.81	32 %

Table 3. Tyne Bridge south abutment, 2016

Aspect	AON 9 June 2016	Chick clutches 12 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
North	65	32 x 1, 7 x 2	46	0.71	40 %
South	12	7 x 1, 1 x 2	9	0.75	33 %
East	65	35 x 1, 9 x 2	53	0.82	32 %
West	7	5 x 1, 1 x 2	7	1.0	14 %
Total	149	79 x 1, 18 x 2	115	0.77	35 %

Table 4. Saltmeadows Tower (Gateshead), 2016

Aspect	AON 7 June 2016	Chick clutches 11 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
NE	38	15 x 1, 7 x 2	29	0.76	42 %
NW	37	18 x 1, 5 x 2	28	0.76	38 %
S	15	3 x 1, 3 x 2	9	0.60	60 %
Total	90	36 x 1, 15 x 2	66	0.73	43 %

Table 5. Baltic Arts Centre (Gateshead), 2016

Aspect	AON 7 June 2016	Chick clutches 11 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
North 1	75	50 x 1, 11 x 2	72	0.96	19 %
North 2	14; + 3 (windows)	12 x 1, 2 x 2	16	0.94	18 %
East	1	1 x 1	1	1.00	0 %
Total	93	63 x 1, 13 x 2	89	0.96	18 %

Notes. North 1: main ledge under BFM lettering;
North 2: ledge above BFM lettering and assoc. windows.

Table 6. International Coatings (Felling Shore), 2016 (D M Turner data)

Aspect	AON 7 June 2016	Chick clutches 11 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
1	27	9 x 1, 6 x 2	21	0.78	44 %
2	10	7 x 1, 1 x 2	9	0.90	20 %
3	57	37 x 1, 12 x 2	61	1.07	14 %
4	61	42 x 1, 8 x 2	58	0.95	18 %
5	10	5 x 1, 3 x 2	11	1.10	20 %
Total	165	100 x 1, 30 x 2	160	0.97	21 %

Notes. Aspect 1 Long low ledge to the right (west)
Aspect 2 Next middle ledge to left (east) of Aspect 1
Aspect 3 Concentrated old central section (i.e. moving east)
Aspect 4 Five windows and long low ledge to left (east) of Aspect 3
Aspect 5 Windows back from river, higher, left and right of 'Akzo Nobel' lettering

Table 7. International Coatings (Felling Shore), 2016 (K Evans data), showing nestling development

Aspect	Chicks 30 June	Chicks 7 July	Chicks 15 July	Chicks 20 July
1	19	21	21	18
2	9	9	9	7
3	58	59	59	49
4	38	54	55	54
5	13	12	12	11
Total	137	155	156	139
Summary	73 x 1, 32 x 2	93 x 1, 31 x 2	94 x 1, 31 x 2	95 x 1, 22 x 2

Free flying juveniles noted: 0 (30 June & 7 July), 3 (15 July), 15 (20 July)

Table 8. Tynemouth cliffs, 2016

Aspect	AON 10 June 2016	Chick clutches 19 July 2016	Chicks total	Productivity Chicks / AON	% of failed nests
1	72	29 x 1, 26 x 2	81	1.13	24 %
2	75	39 x 1, 15 x 2	69	0.92	28 %
3	34	17 x 1, 13 x 2	43	1.26	12 %
4	43	22 x 1, 8 x 2	38	0.88	30 %
Total	224	107 x 1, 62 x 2	231	1.03	25 %

Notes. Aspect 1 Steps to arch 1 and arches 1 – 13
 Aspect 2 To right of arch 13 up to artificial gap
 Aspect 3 From artificial gap to corner
 Aspect 4 From corner towards King Edward's Bay, fairly straight section.

Part Three: Dunstanburgh Castle (Comparative data)

Table 9. Dunstanburgh Castle cliffs, 2012 – 2016 (Surveys by D M Turner)

Year	AON	Chick clutches	Chicks total	Productivity Chicks / AON	% of failed nests
2012	309 (5 June)	113 x 1, 107 x 2, 2 x 3 (10 July)	344	1.11	28.2 %
2013	198 (15 June)	53x1, 31x2, 1x3 (23 July)	118	0.60	57.1 %
2014	346 (8 June)	157x1, 85x2 (15 July)	327	0.95	30.1 %
2015	336 (15 June)	116x1, 113x2, 1x3 (14 July)	345	1.03	31.5 %
2016	211 (11 & 26 June)	64x1, 38x2, 1x3 (19 July)	143	0.68	51.2 %

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References

- Turner, D.M. (2010) Counts and breeding success of Black-legged Kittiwakes *Rissa tridactyla* nesting on man-made structures along the River Tyne, northeast England, 1994-2009, *Seabird*, Vol. 23, 111 - 126.
- Turner, D.M. (2014) Summary of kittiwake breeding data on the River Tyne, northeast England, 2010-2013. *Birds in Northumbria 2013*, pages 206 – 208, Northumberland and Tyneside Bird Club.
- Turner, D.M. (2015) Summary of Black-legged Kittiwake *Rissa tridactyla* breeding data recorded on the River Tyne, northeast England, during 2010 – 2015. Natural History Society of Northumbria website (www.nhsn.ncl.ac.uk) under 'Activities', 'Conservation & Research', 'Tyne Kittiwakes', 'Tyne kittiwake population data' then 'Data for 2010-15'.

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