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Egg- and clutch-size variation, and chick growth in lesser black-backed gulls larus fucus: adaptation constraint?

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CHAPTER 5: APPENDIX.

Description of appendix.

Each page consists of a data sheet upon which is written the entire record for a particular study nest, organized in the following manner: the first table contains estimated laying date, volume, and fate of each egg within that particular nest. A separate column is used for each individual egg, and is labelled according to the position occupied by that egg in the laying sequence. In cases where this position could not be determined, the column heading is reduced to simply read "egg" (the following letter already present on the printed sheet having been blacked out).

The second table contains estimated hatch dates for chicks from the above eggs, whilst the third table records the corresponding measurements of beak length, tarsus length and body weight (abbreviated to beak, leg and wght), taken repeatedly over successive visits to the nest. Both tables adopt similar column labelling to that described above, so that headings relating to chicks who cannot be assigned a position in the brood are reduced to read simply "chick."



SITE: A	NEST:	
---------	-------	--

	Egg A	Egg B 2	-dispuls.
Date first recorded in nest	9/5/95	14/5/95	/
Date of previous nest visit	-	12/5/95	
Assumed Laying Date	_	Day 13	
Dimensions (mm)	73.3 x 50.2	71.0 × 47.2	
Volume ((m³)	87.92	75.29	
Outcome	Missing: 22/5/95	Hatched.	

	Chickas	Chick B	Shieleds.
Date first recorded in nest	/	12/6/95	/
Date of previous nest visit		8/6/95	
Other Information		Egg cracking: 8/6/95	
Assumed Hatch Date		Day 40.5	

		Chies	Acres .			Chick	В			D. THERE	Ch	
Date		Benk	(mm)	www.	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- Copyright	(mmy a)	ry-1 (G	1899
28-5				/								
30-5				1								1
2-6												1
5-6												/
8-6			/								/	
12-6					25	19	32	100				
13-6			/		~	-	_	-			/	
16-6					&MI	SSIN	6 -	-				
21-6		/			h à	28	45	300		/		
26-6					1	32	58	375		/		
1-7					1.5	36	59	445		/		
6-7	/				253	38	59	535				
11-7					M	15511	n c -	-	/			
16-7					歩き.	43	62	735				
21-7					4-M	11881	NG-	750	/			

SITE:

NEST:

	Egg A 3	Egg B 4	Egg C 5
Date first recorded in nest	9-5-95	12-5-95	14-5-95
Date of previous nest visit	_	9-5-95	12-5-95
Assumed Laying Date	_	Day 10.5	Day 13
Dimensions (mm)	64.1 x 47.5	66.4 × 48.4	64.2 × 45.8
Volume (cm ³)	68.84	74.04	64.10
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8-6-95	8-6-95	8-6-95
Date of previous nest visit	5-6-95	5-6-95	5-6-95
Other Information	Egg crucking: 5-6-95	Egg cracking: 5-6-95	_
Assumed Hatch Date	Day 37	Day 37	Day 37.5

		Chick				Chick				Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6									-			
5-6												
8-6	2	16	29	65	2	18	26	65	1,5	14	23	45
12-6	6	21	38	130	6	23	37	145	5,5	16	25	50
13-6	-	-	-	-	-	-	_	-		-	-	_
16-6	10	26	44	245	10	26	45	285	75	19	30	95
21-6	15	28	49	250	15	29	49	310	6- N	MISS	ING	
26-6	4-1	1155	NG	-	4 M	15511	nG-		4	MISSI	NG-	
1-7	4-1	MISSI	NG-	-	41	34	59	510	4-	Miss	ING.	-
6-7	9-1	11851	NG-	1	+ M	SSIN	6-	-				
11-7				1								
16-7												
21-7						-						

	Egg A 6	Egg B 7	Egg C 8
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit	_	915/95	12/5/95
Assumed Laying Date	_	Day 10.5	Day 13
Dimensions (mm)	64.5 x 45.6	59.6 x 43.5	59.0 × 43.8
Volume (cm ³)	63.84	53.68	53.88
Outcome	MISSING: 19/5/95	Hatched	Hatched

	Chick a	Chick B	Chick C
Date first recorded in nest	/	8/6/95	13/6/95
Date of previous nest visit		5/6/95	8/6/95
Other Information		_	PIPPING: 8/6/95
Assumed Hatch Date		Day 37.5	Day 40.5

		Chisk	Ab			Chick	В			Chick	С	
Date	400	(mm)	((mm)	VANA.	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5				/								
30-5												
2-6				1								
5-6												
8-6			/		1.5	16	23	45	1			
12-6						-	-					
13-6					6:	20	32	95	3.5	18	28	70
16-6					1:	23	37	145	4,	21	34	140
21-6					ling-	27	43	270	11.5	23	43	200
26-6					175	29	50	350	13.5	25	48	210
1-7					712	32	53	440	4	Dead		-
6-7	/				1	35	56	570				
11-7	1				*M	1551r	1G-	-				
16-7												
21-7												

SITE: A

NEST:

<u>L</u>,

No eggs laid during study period

SITE: A

NEST: 5

	Egg A	Egg B 10	Egg C
Date first recorded in nest	25/5/95	28/5/95	30/5/95
Date of previous nest visit	22/5/95	25/5/95	28/5/95
Assumed Laying Date	Day 23.5	Day 26.5	Day 29
Dimensions (mm)	63.1 x 46.1	60.7 × 44.8	60.7 × 44.3
Volume (cm ³)	63.83	57.99	56.70
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	26/6/95	26/6/95	26/6/95
Date of previous nest visit	21/6/95	21/6/95	21/6/95
Other Information	Pipping: 21/6/95	Pipping: 21/6/95	-
Assumed Hatch Date	Day 53	Day 53	Day 54.5

		Chick	4			Chick				Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6												
5-6												
8-6												
12-6												
13-6												
16-6												
21-6												
26-6	4	Deo	d-	-	4	16	30	45	25	15	29	40
1-7					4	MIS	SING	_	-1	MISSI	NG	-
6-7					-		1			1		
11-7												
16-7												
21-7												

	Egg A 12	Egg B 13	-tenders
Date first recorded in nest	14/5/95	17/5/95	/
Date of previous nest visit	12/5/95	14/5/95	
Assumed Laying Date	Day 13	Day 15.5	
Dimensions (mm)	66.9 × 47.8	67.2 × 46.0	
Volume (cm ³)	72.76	67.68	
Outcome	Hatched	Hatched	

	Chick A	Chick B	√Objects City.
Date first recorded in nest	12/6/95	12/6/95	/
Date of previous nest visit	8/6/95	8/6/95	
Other Information	_	_	
Assumed Hatch Date	Day 41	Day 41	/

		Chick	Α			Chick	В			Chick	CH	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- August	Esol:	Leg (mm)	Wint.
28-5												/
30-5				7								/
2-6												/
5-6												
8-6											/	
12-6	2	18	30	60	19	18	27	55			/	
13-6	-	-	_	-	-	-	-	-			/	
16-6	6	20	33	85	6	19	30	80				
21-6	M	24	49	165	4	Deac	\	-				
26-6	14	31	50	265								
1-7	21	33	55	350								
6-7	26	36	55	400								
11-7	4-M	1551	NG.	-					/			
16-7	55.	40	65	670								
21-7	41	40	66	740							1	

	Egg A 14	Egg B 15	Egg C 6
Date first recorded in nest	22/5/95	25/5/95	28/5/95
Date of previous nest visit	19/5/95	22/5/95	25/5/95
Assumed Laying Date	Day 20,5	Day 23.5	Day 26.5
Dimensions (mm)	70.3 ×45.7	64.7 x 47.2	70.5 ×45.4
Volume (cm ³)	69.89	68.61	69.17
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	-Ohlekebe.
Date first recorded in nest	21/6/95	21/6/95	
Date of previous nest visit	16/6/95	16/5/95	
Other Information	_	_	
Assumed Hatch Date	Day 49.5	Day 49.5	

		Chick	B			Chick	A A			- CHECK	CIA	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- Conversion of the Conversion	(mm)	(ann)	- Wola
28-5												
30-5												/
2-6						-					-	/
5-6												
8-6											/	
12-6											/	
13-6											1	
16-6												
21-6	1.5	16	26	55	7	16	27	55		/		
26-6	15	18	33	105	7	19	36	110		1		
1-7	772"	22	41	180	12 5	75	46	220		/		
6-7	275	25	45	240	(7,5	27	50	285				
11-7	227	27	54	355	4 M	1551	NG-	-	/			
16-7		32	59	515	4-M	ISSIM	16 -	-	/			
21-7	-	37	62	665	M	18511	NG -		/			

No eggs laid during study period.

	Egg A 17	Egg B \8	Egg C 9
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit	_	9/5/95	12/5/95
Assumed Laying Date	-	Day 1015	Day 13
Dimensions (mm)	68.1 x 49.0	67.5 × 49.1	68.7 x 48.3
Volume (cm ³)	77.83	77.46	76.29
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	CHECK CO
Date first recorded in nest	8/6/95	8/6/95	/
Date of previous nest visit	5/6/95	516 195	
Other Information	PIPPING: 5/6/95	-	
Assumed Hatch Date	Day 37	Day 37.5	

		Chick	Α			Chick	В			-QHILLI		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	4000	Sealt (min)	(min)	- LWgist
28-5												/
30-5												/
2-6												/
5-6												
8-6	2	17	28	65	15	16	27	60			/	
12-6	-	-	-	-	1-	_	-	-			-/	
13-6	7	21	29	115	75.	21	31	115			/	
16-6	AM	SSIN	16-		+M	SSIN	6-	-				
21-6	15	29	43	315	14 =	27	45	260		/		
26-6	20	32	53	420	() = 1	30	54	360				
1-7	37	35	60	580	7.	33	59	505		/		
6-7	4-1	11551	NG -	-	4-1	11551	NG-		,			
11-7		1							/			
16-7									/			
21-7						-						

	Egg A 20	Egg B 21	Egg C 22
Date first recorded in nest	9 15 195	14/5/95	19/5/95
Date of previous nest visit	17-/15	12/5/95	17/5/95
Assumed Laying Date	_	Day 13	Day 18
Dimensions (mm)	61.6 × 46.5	59.2 x 45.7	60.0x45.2
Volume (cm ³)	63.40	58.85	58.35
Outcome	Hatched	Hatched	MISSING: 5/6/95

	Chick A	Chick B	SCHOOL ST
Date first recorded in nest	8/6/95	8/6/95	/
Date of previous nest visit	5/6/95	Ju 5/6/95	
Other Information	Just hatched: 8/6/95	Just hatched: 8/6/95	
Assumed Hatch Date	Day 39	Day 39	

		Chick	B			Chick	· A			Chiols	-	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(dive)	Beak (mm)	(mm)	Work (g)
28-5			1-1									
30-5												/
2-6												/
5-6												/
8-6	Too	Young	To Mes	sore	Too	Young	To Me	sure			/	
12-6	4	16	26	45	4	16	27	50				
13-6	_	_	-	_	_	_	_	_				
16-6	6	17	28	60	2	17	28	70			/	
21-6	13	19	-31	95	4-M	1881	NG-	-				
26-6	4-1	1188	ING	-	4-1	11551	NG-	1				
1-7	4-1	1188	NG	-	4-1	4155	NG-	1		/		
6-7	4-1	Miss	NG.	D					/			
11-7												
16-7												
21-7		-				200						

	Egg A 23	Egg 124	Egg 1 25
Date first recorded in nest	9/5/95	12/5/95	12/5/95
Date of previous nest visit	-	9/5/95	9/5/95
Assumed Laying Date	-	Day 10.5?	Day 10.57
Dimensions (mm)	69.5 x 48.9	66.2 × 49.5	63.6 × 47.7
Volume (cm ³)	79.11	77.21	68.88
Outcome	Hatched	Hatched	Never Hatched

	Chick A	Chick B	CHICAGO .
Date first recorded in nest	5/6/95	8/6/95	
Date of previous nest visit	2/6/95	5/6/95	. /
Other Information	Egg craking: 2/6/95	_	. /
Assumed Hatch Date	Day 34	Day 37.5	1/

		Chick	Α			Chick			4	Ghat	-	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												1
2-6												1
5-6	2	16	24	65								1
8-6	5	20	33	120	15	16	29	60			/	
12-6	4-1	1155	ING.	-	5.5	17	29	65			/	
13-6		_	_	_	-	-	-	-			1/	
16-6	13.	26	45	245	75	19	33	95				
21-6	18	28	50	390	14.5	20	36	125		/		
26-6	23	34	59	510	4	- Dec	id —	B				
1-7	27	38	62	670						1/		
6-7	33	40	62	750								
11-7	1	118511	16-	-					1			
16-7									1			
21-7		1							1			

Egg A 26	Egg B 27	Egg C 28
14/5/95	17/5/95	19/5/95
12/5	14/5	17/5
Day 13	Day 15,5	Day 18
67.1 × 47.7	63.3 × 47.2	60.2 × 45.7
72.67	67.12	59.85
Broken (8/5/45)	Hatched	Hatched
	14/5/95 12/5 Day 13 67.1 × 47.7 72.67	14/5/95 17/5/95 12/5 14/5 Day 13 Day 15,5 67.1 × 47.7 63.3 × 47.2 72.67 67.12

	GHION AS	Chick B	Chick C
Date first recorded in nest	/	12/6/95	16/6/95
Date of previous nest visit		8/6/95	13/6/95
Other Information			7.5
Assumed Hatch Date		Day 41	Day 45.5

		Chick	Ab.			Chick	В			Chick	С	
Date	4	(mm)	(nen)	700	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6	-											
5-6												
8-6			/						1			
12-6					1/	16	22	45				
13-6						-	-	-				
16-6					'n	17	27	70	1.5	Too I	119 to 1	Measur
21-6					11	23	35	125	10	MI	SSI	NG
26-6					16	27	41	255	1. 5	MI	SSI	v G
1-7					21	29	49	335	201	MI	SSI	NG
6-7	/				- 8	32	52	435				
11-7					31	35	54	555				
16-7												
21-7											-	

	Egg A 29	48 MILES	EU C
Date first recorded in nest	9/5/95		/
Date of previous nest visit	-		
Assumed Laying Date	_		
Dimensions (mm)	62.0 × 45.6		
Volume (cm3)	61.37		
Outcome	MISSING: 14/5/95		

No eggs laid during study period

12

	Egg A 30	Egg B 3	change.
Date first recorded in nest	14/5/95	17/5/95	/
Date of previous nest visit	12/5/95	14/5/95	
Assumed Laying Date	Day 13	Day 15.5	
Dimensions (mm)	68.3 × 46.6	68.8 x 45.7	
Volume (cm³)	70.60	68.40	
Outcome	MISSING; 2/6/95	Hatched	

	44400	Chick B	CHECKEN
Date first recorded in nest		13/6/95	/
Date of previous nest visit		8/6/95	
Other Information		_	
Assumed Hatch Date		Day 41,5	

		Chick	100			Chick	В			Shirt	0	
Date	(0.50)	COM)	Les Concept		Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(Sec.)	Deak (mm)	Ling (nim)	
28-5				/								T
30-5				/								
2-6				/								
5-6												1
8-6			/								/	
12-6											/	
13-6			/		20	16	25	45				
16-6					1.3	17	30	80				
21-6					5-	23	37	140				
26-6					758	27	43	265				
1-7					1	29	50	345				
6-7	/				4-1	115511	NG -	-	/			
11-7					£0.	35	55	560				
16-7					1	115511	VG -	-				
21-7						4						

	Egg A 32	Egg B 33	-depth.
Date first recorded in nest	22/5/95	25/5/95	/
Date of previous nest visit	19/5/95	22/5/95	
Assumed Laying Date	Day 20.5	Day 23.5	
Dimensions (mm)	65.2 × 46.9	63.0 × 45.2	
Volume (cm³)	68.27	61.27	
Outcome	Hatched	Hatched	

	Chick A	Chick B	Chief Ch
Date first recorded in nest	16/6/95	21/6/95	/
Date of previous nest visit	13/6/95	16/6/95	
Other Information	Just hatched: 16/6/95	Just hatched: 21/6/95	
Assumed Hatch Date	Day 47	Day 52	

		Chick	Α			Chick	В			Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	April 1	(-Bank (Bino)	(mm) -	Walls (g)
28-5												/
30-5												
2-6												/
5-6												/
8-6											/	
12-6												
13-6											/	
16-6	Too !	bung !	to Me	asure	Too	V V	ra Ho	197				
21-6	5	22	46	135	Too	Young				/		
26-6	O	29	49	260	4	-Dea		-				
1-7	15	32	51	410						/		
6-7	7/3	34	53	560					/			
11-7	+M	1551	NG-	-					/			
16-7	30	41	64	705					/			
21-7	4- M	115511	WG-	-								

	Egg A 34	400000	40000
Date first recorded in nest	9-5-95	/	/
Date of previous nest visit	_		
Assumed Laying Date	LIVE W		
Dimensions (mm)	67.5 x46.3		
Volume (cm³)	68.88		
Outcome	Broken: 2/6/95		

	Egg A 35	Egg B 36	diam'r.
Date first recorded in nest	9/5/95	14/5/95	/
Date of previous nest visit	_	12/5/95	
Assumed Laying Date	_	Day 13	
Dimensions (mm)	66.1 × 45.5	62.5 x 43.2	
Volume (cm ³)	65.14	55.52	
Outcome	Hatched	Hatched	/

	Chick A	Chick B	- CHARGO
Date first recorded in nest	5/6/95	12/6/95 (Dead)	/
Date of previous nest visit	2/6/95	8/6/95	
Other Information	_	Pipping: 8/6/95	
Assumed Hatch Date	Day 34.5	Day 40	

	7	Chick	Α			Chick	В			CORNER	40	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	delegation of the last of the	(rath)	(till)	(a)
28-5								-5				1
30-5												
2-6												1
5-6	1,5	18	28	55								
8-6	45	18	32	90							/	
12-6	8.4	23	39	165	4	-Dead		-			/	
13-6	E	_	_	_							/	
16-6	175	26	45	265						,		
21-6	4-N	11551	NG-	-								
26-6	215	36	65	625						/		
1-7	4-1	11551	NG-	-						/		
6-7									/	/		
11-7									1			
16-7									/			
21-7									/			

SITE: A

NEST: 19

	Egg A 37	Egg B 38	Egg C 39
Date first recorded in nest	12/5/95	14/5/95	19/5/95
Date of previous nest visit	915 195	12/5/95	17/5/95
Assumed Laying Date	Day 10.5	Day 13	Day 18
Dimensions (mm)	66.2 × 47.0	65.0 x 45.2	64.7 x 44.3
Volume (cm ³)	69.61	63.21	60.44
Outcome	MISSING: 30/5/95	Hatched	Hatched

	Chiek A	Chick B	Chick C
Date first recorded in nest	/	13/6/95	13/6/95
Date of previous nest visit		8/6/95	8/6/95
Other Information		Egg cracking: 8/6/95	_
Assumed Hatch Date		Day 40.5	Day 41.5

		Chick	All			Chick	В			Chick	С	
Date	(days)	Beak	(ram)		Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5				/								
30-5												
2-6				/								
5-6				/								
8-6			/									
12-6			/									
13-6			/		3.5	18	28	85	2.5	16	22	45
16-6					6.5	21	36	150	5.5	17	28	80
21-6					1).5	24	47	290	105	21	36	165
26-6					16.	28	57	345	M	18811	15	
1-7					21.2	31	58	385	1	11551	NG	
6-7	/				26:	35	60	495	1	118811	VG-	
11-7					4-M	15511	16-	1				
16-7	/				36.7	40	65	680				
21-7					4-1	115511	u G	-		VIII)		

	Egg A 40	THE REAL PROPERTY.	design
Date first recorded in nest	9/5/95		/
Date of previous nest visit	-		
Assumed Laying Date	-		
Dimensions (mm)	63.5 × 45.2		
Volume (cm³)	61.75		
Outcome	MISSING; 12/5/95	/	/

	Egg A 41	Egg B 42	dippers.
Date first recorded in nest	9/5/95	12/5/95	/
Date of previous nest visit	_	9/5/95	
Assumed Laying Date	-	Day 10.5	
Dimensions (mm)	71.8 × 47.6	69.0 × 43.7	
Volume (cm³)	77.44	62.72	
Outcome	- MISSIN	G; 25/5/95-	

	Egg A 43	6000	4000
Date first recorded in nest	12/5/95		
Date of previous nest visit	915/95		
Assumed Laying Date	Day 10,5		
Dimensions (mm)	69.5 x 46.5		
Volume (cm³)	71.53		
Outcome	Hatched		

	Chick A	district.	- Charles
Date first recorded in nest	8/5/95		
Date of previous nest visit	5/5/95		
Other Information	I he de la regre	. /	
Assumed Hatch Date	Day 37.5		

		Chick	Α			CHICK	B			Ghista	16.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)		Bank	sheu).	Mont (9)	(Arye)	Beat ((film	Wat
28-5												/
30-5												/
2-6											/	
5-6											/	
8-6	1	16	29	90						/		
12-6		_	_	-				-		/		
13-6		20	32	135					/			
16-6	95	23	39	195				,				
21-6	1	11551	NG					/				
26-6	ſ	MISSI	NG				/	/				
1-7	1	1185	ING				/					
6-7		1				/						
11-7						/						
16-7					/							
21-7		1			/							

SITE: A

NEST: 23

	Egg♠ 44	Egg● 4-5	40000
Date first recorded in nest	9/5/95	9/5/95	/
Date of previous nest visit		-	
Assumed Laying Date	_	-	
Dimensions (mm)	73.3 × 49.7	70.3 × 48.5	
Volume (cm³)	86.18	78.71	
Outcome	MISSING:14/6/95	Hatched	/

	Chick A	Chick	4Chink Co
Date first recorded in nest	/	2/6/95	
Date of previous nest visit		30/5/95	
Other Information			
Assumed Hatch Date		Day 31.5	

	Chick A				Chick			Chick C				
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	days	Seale (min)	(mm)	VVgIIs (p)
28-5				/								
30-5												
2-6				/-	15	18	27	75				
5-6					4.5	21	30	110				
8-6			/		75	24	37	160			/	
12-6					11.5	28	44	310			/	
13-6					-	-	-	_			/	
16-6		/			15.5	30	51	395				
21-6					205	36	55	500				
26-6					25.5	39	58	630				
1-7					30.7	43	58	695		/		
6-7	/				4-1	1155	ING-	-	,	/		
11-7												
16-7												
21-7						4						

SITE:

NEST: 24

	Egg A 46	Egg B 47	Egg C 48
Date first recorded in nest	9 /5 /95	12/5/95	17/5/95
Date of previous nest visit	-	915/95	14/5/95
Assumed Laying Date		Day 10.5	Day 15.5
Dimensions (mm)	69.3 x 48.6	70.1 ×49.0	67.3×47.5
Volume (cm³)	77.91	80.12	72.28
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8/6/95	8/6/95	12/6/95
Date of previous nest visit	5/6/95	5/6/95	8/6/95
Other Information	Egg cracking: 5/6/95	_	_
Assumed Hatch Date	Day 37	Day 37.5	Day 41

		Chick				Chick				Chick	C	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6		13										
5-6												
8-6	2	16	26	65	1.5	17	24	65				
12-6	6	20	38	160	55	21	33	115	2	18	27	60
13-6	-	-	-	-		_	-	-	_	-	-	-
16-6	10	27	43	270	7.5	24	38	190	6	19	28	90
21-6	15	31	51	430	145	28	46	310	11	23	35	180
26-6	4		-1	11351	NG-			1	~	1881	NG	
1-7	25	40	61	740	24.5	34	60	525	1	11881	NG	
6-7	4	- Dea	d —	-	4	-De	od —	-	1	1155	NG	
11-7										1		
16-7												
21-7												

	Egg A 49	Egg B 50	Egg C 51
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit	_	915/95	12/5/95
Assumed Laying Date	_	Day 10.5	Day 13
Dimensions (mm)	66.0 × 48.5	62.4 × 48.2	64.5 × 45.3
Volume (cm ³)	73.90	69.01	63.00
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8/6/95	8/6/95	816/95
Date of previous nest visit	5/6/95	5/6/95	5/6/95
Other Information	PIPPING: 5/6/95	-	_
Assumed Hatch Date	Day 37	Day 37.5	Day 37.5

		Chick	B			Chick	A			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6												
5-6												
8-6	2	15	24	60	1.5	15	27	60	1.5	16	23	50
12-6	6	20	33	115	5.5	21	31	105	5.5	18	28	85
13-6	-	_	_	-	-	_	-	-	-	-	-	-
16-6	10	23	38	190	9.5	23	37	185	M	ISS	ING	
21-6	15	27	42	260	14.5	26	43	225	1	11851	NG	
26-6	4-1	11881	NG-	400	19.5	29	52	330	1	11881	NG	
1-7	4-1	Missi	NG-	200	24.5	33	57	475		1		
6-7	30	39	60	620	29.5	35	59	590				
11-7	-			Mis	SING			-				
16-7												
21-7										100		

	Egg A 52	Egg B 53	40000
Date first recorded in nest	9/5/95	12/5/95	/
Date of previous nest visit		9/5/95	
Assumed Laying Date	_	Day 10.5	
Dimensions (mm)	66.6 × 48.4	65.7 x 46.2	
Volume (cm3)	74.26	66.75	
Outcome	Hatched	Hatched	

	Chick A	Chick B	-Charles
Date first recorded in nest	5/6/95	8/6/95	/
Date of previous nest visit	2/6/95	5/6/95	
Other Information	Egg cracking: 2/6/95	_	
Assumed Hatch Date	Day 34	Day 37.5	

		Chick	Α			Chick	В			Shiele	-	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	-(m/s)	(mm)	(mm)	VVett
28-5												
30-5												/
2-6												/
5-6	2	18	28	75								
8-6	5	22	35	130	15	17	31	75				
12-6	1	27	4-7	305	15	23	38	205				
13-6		_	_	-		-	_	_			/	
16-6	13	30	52	410	7 =	27	47	290			/	
21-6	13	35	57	600	19.5	30	55	465				
26-6	4-M	18511	v6-	-		1				/		
1-7					+ N	1155	ING	-				
6-7						1			/			
11-7									/			
16-7									/			
21-7									/			

	Egg ¶ 54	Egg 55	-600%
Date first recorded in nest	915195	9/5/95	/
Date of previous nest visit	_	_	
Assumed Laying Date	-	_	
Dimensions (mm)	64.7 × 48.2	64.0 × 47.9	
Volume (cm ³)	71.55	69.90	
Outcome	Habched	Never hatched.	

	Chick	Callete G
Date first recorded in nest	30/5/95	
Date of previous nest visit	28 /5 /95	
Other Information	Egg cracking: 28/5/95	
Assumed Hatch Date	Day 29	

		Chick								Ghick	9	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)			-()		(days)	Grade (mm)	(nm)	svig (a)
28-5												
30-5	1	18	29	70								/
2-6	4	22	31	130		-					/	
5-6	7	24	35	180								
8-6	10	27	47	270						/		
12-6	it	31	56	375								
13-6		_	_	-					/			
16-6	12	36	58	490				,				
21-6	. 5	39	60	645				/				
26-6	17	43	63	660			,					
1-7	3	44	64	655			/					
6-7	4-1	1155	NG-	-		/						
11-7						/						
16-7			17		/							
21-7		1			/							

	Egg A 56	Egg B 57	GEO
Date first recorded in nest	12/5/95	14/5/95	/
Date of previous nest visit	915/95	12/5/95	/
Assumed Laying Date	Day 10.5	Day 13	
Dimensions (mm)	64.7 × 48.1	63.1 x 45.7	
Volume (cm ³)	71.25	62.73	
Outcome	Hatched.	Never hatched	

	Chick A	Ghista D	Ghick Gy
Date first recorded in nest	8/6/95		
Date of previous nest visit	5/6/95		
Other Information	Just hatched: 8/6/95		•
Assumed Hatch Date	Day 39		

		Chick	Α			Chica				Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	200	Pon) Impo	(1110)	(O)		April 1	Leg .	TO/A
28-5												/
30-5												/
2-6		-									/	
5-6											/	
8-6	Too	Young	To Me	asure						/		
12-6		Missi										
13-6		Missi						1	/			
16-6		Missi	NG					,				
21-6								/				
26-6							/					
1-7							/					
6-7						/						
11-7						/						
16-7					/							
21-7		-			/							

No eggs laid during study period

	Egg A 58	4000	days
Date first recorded in nest	9/5/95		/
Date of previous nest visit	_		
Assumed Laying Date	_		
Dimensions (mm)	65.3 x 47.5		
Volume (cm ³)	70.13		
Outcome	Hatched		

	Chick A	GHALLE	
Date first recorded in nest	2/6/95		
Date of previous nest visit	30/5/95		
Other Information	_		
Assumed Hatch Date	Day 31.5		

		Chick	Α			CHICK	B			Enicle	0	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Sur.	Reak (min)	a front	Walte	(O=0)	Esak	(mm)	Vigita (a)
28-5												/
30-5												
2-6	1.5	17	28	60		-					/	
5-6	11.5	18	32	110								
8-6	7.5	22	38	145						/		
12-6	115	27	50	315								
13-6	-	-	_	-								
16-6	15.5	30	55	410				/				
21-6	4	MISS	ING	-				/				
26-6	157	39	63	650			/					
1-7	30.5	44	65	715			/					
6-7	4	MISS	ING-	-		/						
11-7		1				/						
16-7					/							
21-7		-										

	Egg A 59	4000	-
Date first recorded in nest	12/5/95	/	/
Date of previous nest visit	9 /5 /95		
Assumed Laying Date	Day 10.5		
Dimensions (mm)	68.0 x 48.1		
Volume (cm ³)	74.89		
Outcome	MISSING: 14/5/95		

SITE: A

NEST: 32

Egg C 62 Egg B 61 Egg A 60 9-5-95 12-5-95 14-5-95 Date first recorded in nest 9-5-95 12-5-95 Date of previous nest visit Day 10.5 Day 13 **Assumed Laying Date** 68.6 x 46.6 69.9 x 48.0 67.1 × 46.9 Dimensions (mm) Volume (cm3) 70.91 76.66 70.25 Hatched Hatched Hatched Outcome

	Chick A	Chick B	Chick C		
Date first recorded in nest	8-6-95	8-6-95	8-6-95		
Date of previous nest visit	5-6-95	5-6-95	5-6-95		
Other Information	PippING: 5/6/95	PIPPING: 5/6/95	Just hatched: 8/6/95		
Assumed Hatch Date	Day 37	Day 37	Day 39		

Date	Chick (Chick			Chick C					
	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6					1							
5-6												
8-6	2	17	28	85	4	Dea	۸ —	-	Too	Young	To Me	sure
12-6	6	22	34	165						11881		
13-6	_	_	_	_					1	11881	NG	
16-6	10	28	45	265					1	11881	NG	
21-6	15	31	49	440						1	-	
26-6	20	36	60	545								
1-7	15	43	61	720								
6-7	4-	MISS	NG-	-								
11-7												
16-7												
21-7										1		

SITE: A

22-5-95-

33

NEST:

Egg A 63 Egg B 64 Egg C 65 9/5/95 12/5/95 17/5/95 Date first recorded in nest 9/5/95 14/5/95 Date of previous nest visit Day 15.5 Day 10.5 **Assumed Laying Date** 66.4 × 46.2 67.4 × 47.1 Dimensions (mm) 70.3 × 48.3 Volume (cm³) 67.46 71.17 78.07

- MISSING;

Outcome

	Egg A 66	400000	-dipuls.
Date first recorded in nest	12/5/95	/	/
Date of previous nest visit	915 195		
Assumed Laying Date	Day 10.5		
Dimensions (mm)	62.7 × 46.7		
Volume (cm ³)	65.09		
Outcome	Missing; 19/5/95	/	

	Egg A 67	Egg B 68	dippe.
Date first recorded in nest	17/5/95	19/5/95	
Date of previous nest visit	14 /5 /95	17/5/95	
Assumed Laying Date	Day 15.5	Day 18	
Dimensions (mm)	67.7 x 47.6	63.6 x 45.0	
Volume (cm ³)	73.01	61.30	
Outcome	Hatched	Hatched	

	Chick A	Chick B	Chest Co.
Date first recorded in nest	16/6/95	16/6/95	/
Date of previous nest visit	13/6/95	13/6/95	
Other Information	_	_	/
Assumed Hatch Date	Day 45.5	Day 45.5	

		Chick	• 3			Chick	A			C. TON		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)		Bi-	(mm)	- (9)
28-5												,
30-5												1
2-6												/
5-6												
8-6											/	
12-6												
13-6											/	
16-6	1.5	18	27	75	1.5	18	28	80				
21-6	4		- M	155	IN	5 -				1		
26-6				1						1		
1-7										/		
6-7										/		
11-7						1			1			
16-7									/			
21-7				-					/			

	Egg A 69	Egg B 70	-dipplin,
Date first recorded in nest	9/5/95	12/5/95	/
Date of previous nest visit		9/5/95	/
Assumed Laying Date	_	Day 10.5	
Dimensions (mm)	66.7 × 44 4	65.2 × 43.0	-
Volume (cm ³)	62.59	57.38	
Outcome	Hatched	Hatched	

	Chick A	Chick B	- Constitution		
Date first recorded in nest	5/6/95	8/6/95	/		
Date of previous nest visit	2/6/95	5/6/95			
Other Information	Egg cracking: 2/6/95	Egg cracking: 5/6/95			
Assumed Hatch Date	Doy 34.5	Day 37.5			

		Chick	Α			Chick	В			Chicle		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)		(m(a)	(000)	Vigor,
28-5												1
30-5												/
2-6												/
5-6	15	15	23	45								/
8-6	4.5	17	27	75	15	16	26	60			/	
12-6	3.5	21	33	140	55	20	31	100				
13-6	-	-	_	-		-	-	-			/	
16-6	12.5	24	42	220	1	1155	ING	-				
21-6		MIS	SING		W 2	26	44	230		/		
26-6		Miss	ING		19.5	29	53	340		/		
1-7			SING		24.5	32	58	490		/		
6-7					215	1355	159	610	,	/		
11-7					1	11551	NG-	-	/			
16-7									/			
21-7		4							/			

	Egg A 71	Egg B 72	Egg C 73
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit	-	9/5/95	12/5/95
Assumed Laying Date	_	Day 10.5	Day 13
Dimensions (mm)	65.5 × 49.3	62.9 × 48.2	61.3 ×48.2
Volume (cm³)	75.78	69.56	67.79
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8/6/95	8/6/95	8/6/95
Date of previous nest visit	5/6/95	5/6/95	5/6/95
Other Information	Egg cracking; 5/6/95	Egg cracking: 5/6/95	_
Assumed Hatch Date	Day 37	Day 37	Day 37.5

		Chick	• B			Chick	• A			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5								-				
2-6												
5-6												
8-6	2	17	28	80	2	17	29	85	1.5	15	25	60
12-6	6	21	36	150	6	23	34	120	5.5	20	30	85
13-6	-	-	-	-	-	_	_	_	-	-	-	-
16-6	10	27	47	240	10	25	40	195	4-N	11881	NG-	
21-6	15	30	51	410	4	Deod	L —	-	4-1	1155	NG-	
26-6	20	35	63	505			0	-	4-1	MISS	ING-	
1-7	25	41	64	670						1		
6-7	30	43	66	685								
11-7	4-1	11351	NG-	-								
16-7												
21-7												

	Egg A 74	4000	dame
Date first recorded in nest	9/5/95		/
Date of previous nest visit	_		
Assumed Laying Date			
Dimensions (mm)	70.5 × 47.5		
Volume (cm ³)	75.72		
Outcome	Hatched		

	Chick A	(Carrier 18)	0
Date first recorded in nest	30/5/95		
Date of previous nest visit	28/5/95		
Other Information	~		
Assumed Hatch Date	Day 29		

		Chick	Α			CHIER	B			district	100	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	4000	Be (min)	Les (min)	Walls		Book Frank	La Language	WO TO
28-5												/
30-5	7	18	29	85								/
2-6	4	21	33	135		+-					/	
5-6	2	23	39	175								
8-6	5	26	44	270						/		
12-6	1	29	51	395								
13-6	_	-	_	-					/			
16-6	1.5	33	56	510				/				
21-6	1	36	60	665				/				
26-6	6	39	63	670			/					
1-7	4-1	11881	NG-	-			/					
6-7						/						
11-7						/						
16-7					/							
21-7		1			/							

	Egg A 75	Egg B 76	dipposi-
Date first recorded in nest	12/5/95	14/5/95	/
Date of previous nest visit	9/5/95	12/5/95	
Assumed Laying Date	Day 10.5	Day 13	
Dimensions (mm)	67.7 × 44.8	65.7 x 45.1	
Volume (cm ³)	64.68	63.61	
Outcome	Hatched	Hatched	

	Chick A	Chick B	40000
Date first recorded in nest	12/6/95	12/6/95	/
Date of previous nest visit	8/6/95	8/6/95	
Other Information	_	-	
Assumed Hatch Date	Day 41	Day 41	

		Chick	Α			Chick	В			Grack	Cit.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	405901	(min)	C (com)	Vign
28-5								" 11				
30-5												/
2-6												1
5-6												
8-6											/	
12-6	2	15	28	65	7	15	24	50			/	
13-6	-	_	-	-		_	_	-			/	
16-6	6	16	30	85	6	18	26	75		,		
21-6	4-M	18811	16-	-	1.0	22	33	150		/		
26-6	16	23	42	280	16	25	41	270		/		
1-7	21	26	47	330	21	30	52	330		/		
6-7	26	29	51	365	25	33	56	440	,			
11-7	<u>a</u> _/	11351	NG-	-	4	Mis	SING	-				
16-7	4-1	MISSI	NG-	-		1			/			
21-7	4Y	Missi	NG-	-					/			

	Egg A 77	Egg B 78	Egg C 79
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit	-	9/5/95	12/5/95
Assumed Laying Date	_	Day 10,5	Day 13
Dimensions (mm)	65.9 × 47.8	66.6 x 46.9	65.0 x 45.0
Volume (cm ³)	71.67	69.73	62.65
Outcome	- MISSINC	: 25/5/95	MISSING; 28/5/95

	Egg A 80	Egg B 81	digeto. "
Date first recorded in nest	14/5/95	28/5/95	/
Date of previous nest visit	12/5/95	25/5/95	/
Assumed Laying Date	Day 13	Day 26.5	
Dimensions (mm)	67.5 × 45.9	65.6 × 44.8	
Volume (cm³)	67.69	62.67	
Outcome	Hatched	Never hatched.	

	Chick A	- CONSIDER	◆ChickOb.
Date first recorded in nest	12/6/95		/
Date of previous nest visit	8 /6 /95		
Other Information	_		
Assumed Hatch Date	Day 41		/

		Chick	Α			CHIEN	B)			Chick	OL.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(Gays)	Beaks (nm)	Log-	Wgmi (0)	-Algeria	Book (mm)	Leg (mm)	Wale
28-5								/				
30-5												/
2-6								/				/
5-6												/
8-6							/				/	
12-6	2	18	28	50								
13-6	-	_	_	_							/	
16-6	6	19	28	65		,						
21-6	11	22	32	95								
26-6	4-M	1551	NG-	-								
1-7	4-M	15511	NG-	-		/				/		
6-7	4 1	11551	NG-	-		/			/			
11-7		1							1			
16-7					/							
21-7		4			/				/			

	Egg A 82	Egg B %3	- CHOID
Date first recorded in nest	25/5/95	28/5/95	
Date of previous nest visit	22/5/95	25/5/95	
Assumed Laying Date	Day 23.5	Day 26.5	
Dimensions (mm)	70.6 x 47.8	70.5 x 48.3	
Volume (cm ³)	76.78	78.29	
Outcome	Hatched	Hatched	/

	Chick A	Chick B	Chick Co.
Date first recorded in nest	21/6/95	21/6/95	
Date of previous nest visit	16/6/95	16/6/95	
Other Information	_	_	
Assumed Hatch Date	Day 49,5	Day 49.5	

		Chick	9			Chick	4			Chies	0	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	-Apendo	Beat (oun)	E-(a(tt))	World
28-5												/
30-5												/
2-6												/
5-6												
8-6											/	
12-6												
13-6												
16-6												
21-6	2.5	16	25	55	25	16	29	55		/		
26-6	7.5	23	40	125	75	24	38	150				
1-7	12.5	28	45	260	125	28	44	300		/		
6-7	17.5	30	55	360	175	31	54	410	/			
11-7	22.5	33	58	500	22 ;	34	58	520	/			
16-7	27.5	35	60	620	1	11551	NG-	1	/			
21-7	1	11551	NG-	-		1						

	Egg A 84	Egg B 85	Egg C 🍪
Date first recorded in nest	9/5/95	12/5/95	14/5/95
Date of previous nest visit		9/5/95	12/5/95
Assumed Laying Date	_	Day 10.5	Day 13
Dimensions (mm)	65.0 x 46.7	61.7 ×46.6	61.9 x43.8
Volume (cm ³)	67.48	63.78	56.53
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8/6/95	8/6/95	8/6/95
Date of previous nest visit	5/6/95	5/6/95	5/6/95
Other Information	Egg cracking: 5/6/95	_	_
Assumed Hatch Date	Day 37	Day 37,5	Day 37.5

		Chick	B			Chick	• A			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5									1 1			
30-5												
2-6												
5-6												
8-6	2	16	25	60	1.5	17	26	55	1.5	15	23	45
12-6	6	21	31	120	5.7	21	31	85	50	18	24	50
13-6	_	-	-	-	_	_	_	_	_	_	-	-
16-6	+M	1551	NG-	-	1.5	23	36	120	4	- Dea	<u>l</u> —	
21-6	15	27	44	340	14.5	27	43	190				
26-6	22	32	58	440	(4 5	29	49	230				
1-7	27	34	59	475	115	33	49	300				
6-7	- 910	36	60	585	4	- De	ed —	-				
11-7	4-1	1155	IN G	-								
16-7												
21-7		-										

	Egg A 87	dante	dante
Date first recorded in nest	19/5/95		
Date of previous nest visit	17/5/95		
Assumed Laying Date	Day 18		
Dimensions (mm)	64.2 × 45.3		
Volume (cm ³)	62.71		
Outcome	Hatched		

	Chick A	-CHESICO
Date first recorded in nest	16/6/95	
Date of previous nest visit	13/6/95	
Other Information	-	
Assumed Hatch Date	Day 45.5	

		Chick	Α			Chicle				-CONSIDER	10-	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	dayo	Books (mm)	Lag .	Web	dist	Eesk Immy	(mm)-	Wght
28-5												/
30-5												/
2-6						-					1	
5-6											/	
8-6										1		
12-6												
13-6									/			
16-6	13	16	24	50				,				
21-6		19	30	90				/				
26-6		24	38	155			/		-			
1-7		28	44	300			/					
6-7		30	51	385		/						
11-7	- 6	35	55	500		/						
16-7	77. 1	39	58	620	/							
21-7	4	MIS	SING-	D	/							

	Egg A 88	Egg B 89	Egg C 90
Date first recorded in nest	9 /5 /95	12/5/95	17/5/95
Date of previous nest visit	_	915195	14/5/95
Assumed Laying Date	_	Day 10,5	Day 15.5
Dimensions (mm)	62.5 x 44.8	63.4 x 44.0	64.7 × 42.9
Volume (om ³)	59.71	58.43	56.68
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	8/6/95	12/6/95	12/6/95
Date of previous nest visit	5/6/95	8/6/95	8/6/95
Other Information	Just harthed: 8/6/95	Egg cracking: 8/6/95	_
Assumed Hatch Date	Day 39	Day 40.5	Day 4-1

		Chick	Α			Chick				Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5											(11)	
30-5												
2-6		-				-						
5-6												
8-6	Too	Young	Tol	leasure								
12-6	4	20	31	110	4	-Dead	<u> </u>		7	16	25	40
13-6	-	-	-	-						-	-	_
16-6	8	24	37	150					4	-De	d-	-
21-6	13	28	47	310								
26-6	3/	32	52	420								
1-7	3	35	57	545								
6-7	2.7	38	59	580								
11-7	4	MISS	NG	6	,							
16-7												
21-7		-										

	Egg A 91	Egg B 92	Egg C 93
Date first recorded in nest	12/5/95	17/5/95	19/5/95
Date of previous nest visit	915/95	14/5/95	17/5/95
Assumed Laying Date	Day 10.5	Day 15.5	Day 18
Dimensions (mm)	69.2 x 45.0	67.5 x 45.5	63.7 × 43.3
Volume (cm3)	66.70	66.52	56.85
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	Chickica
Date first recorded in nest	8/6/95	12/6/95	
Date of previous nest visit	5 /6 /95	8 /6 /95	
Other Information	Just hatched: 8/6/95	_	
Assumed Hatch Date	Day 39	Day 41	

		Chick	Α			Chick	В			Chiek		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	A)A	(Se alc)	J. ogi J.	Work (d)
28-5												/
30-5												/
2-6												/
5-6												
8-6	Too	Young	To Ma	sure							/	
12-6	4	17	31	100	2	17	29	75				
13-6	-	-	-	-	-	_	_	-				
16-6	8	21	39	165	6	20	33	125				
21-6	13	24	41	265	(1	24	38	195				
26-6	18	31	53	415	16	27	51	340				
1-7	23	35	59	515	21	31	53	425				
6-7	28	37	60	565	26	36	55	440				
11-7	4-1	11881	NG-	-	4-1	11881	NG-	-	- /			
16-7	38	42	61	715	36	40	62	665				
21-7	4-1	11SSII	16-	•	41	43	62	675	/			

No eggs land during study period

	Egg A 94	Egg B 95	Egg C 96
Date first recorded in nest	12/5/95	14/5/95	17/5/95
Date of previous nest visit	915/95	12/5/95	14/5/95
Assumed Laying Date	Day 10.5	Day 13	Day 15.5
Dimensions (mm)	69.2 × 48.2	65.1 × 48.2	66.6 x 47.7
Volume (cm ³)	76.52	71.99	72.13
Outcome	Itatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	12/6/95	12/6/95	12/6/95
Date of previous nest visit	8/6/95	8/6/95	8/6/95
Other Information	Eggs	Cracking: 8/6/95-	
Assumed Hatch Date	Day 40	Day 40	Day 40

		Chick	Α	- 1		Chick				Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
30-5												
2-6												
5-6												
8-6												
12-6	3	18	31	100	3	18	28	75	3	18	26	75
13-6	-	-	-	_		-	-	_	-	-	-	-
16-6	7	23	38	165	7	21	32	115	7	21	32	115
21-6	12	26	43	280	12	22	39	195	4-M	ISSI	NG-	
26-6	17	31	56	405	17	28	53	310	4-N	11881	NG	-
1-7	2.2	40	60	495	2.7	32	53	380	4 N	11851	NG.	
6-7	27	41	61	570	207	34	56	490		1		
11-7	4-P	11551	NG-	10	4 N	lissi	NG-	-				
16-7												
21-7												

No Eggs laid during study period.

	Egg A 97	Egg B 98	Egg C 99
Date first recorded in nest	12/5/95	14/5/95	17/5/95
Date of previous nest visit	9/5/95	12/5/95	14/5/95
Assumed Laying Date	Day 10.5	Day 13	Day 15.5
Dimensions (mm)	64.5 × 47.3	63.3 × 48.1	61.0 × 45.4
Volume (cm³)	68.69	69.71	59.85
Outcome	Hatched	Hatched	Missing; 2/6/95

	Chick A	Chick B	Charle Co
Date first recorded in nest	12/6/95	12/6/95	/
Date of previous nest visit	8/6/95	8/6/95	
Other Information	Pipping: 8/6/95	_	
Assumed Hatch Date	Day 40	Day 41	

		Chick				Chick	6			Chick	E0.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	days)	Snak (mm)	(min)	Works (a)s
28-5												/
30-5												/
2-6												/
5-6												/
8-6											/	
12-6	3	17	28	65	2	16	24	50				
13-6	_	_	-	_	-	-	-	-			/	
16-6	7	20	34	90	6	18	29	60		,		
21-6	12	25	47	185	1	21	30	95				
26-6	1./	311	50	300	4	- Deo	9 -	-				
1-7	72	34	54	395						/		
6-7	1	11551	NG-						/			
11-7	1	118811	16-	-					/			
16-7	37	40	64	720					/			
21-7	1-1	115511	16-	-					/			

	Egg A 100	Egg B 101	(E000)
Date first recorded in nest	12-5-95	14-5-95	/
Date of previous nest visit	_	12-5-95	/
Assumed Laying Date	_	Day 13	
Dimensions (mm)	68.5 × 46.9	69.5 x 46.4	
Volume (cm³)	71.72	71.22	
Outcome	Never Harrhed	Hatched	

	Chick A	Chick B	-ChickeGs
Date first recorded in nest	8-6-95	13-6-95	/
Date of previous nest visit	5-6-95	8-6-95	
Other Information	Never Hatched	PippING: 8-6-95	
Assumed Hatch Date	Day 39	Day 40	

		Chick				Chick	В			CHIER	0	
Date		(min)	(Lag (rum)	(0)A	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(days)	Elega (mm)	Leg (mm)	Wght (a):
28-5				/								
31-5												/
2-6				/								/
5-6			/								/	
8-6											1	
13-6			/		4	20	30	85			/	
18-6					q	23	41	185		1		
23-6					→ M	15511	NG-			/		
28-6					4 M	ISSI	16-	-		/		
3-7					24	37	59	560				
8-7					4 M	ISSI	NG -	-	/			
13-7	/											
18-7									/			

	Egg A 102	Egg B 103	Egg C 104
Date first recorded in nest	14-5-95	17-5-95	19-5-95
Date of previous nest visit	12-5-95	14-5-95	17-5-95
Assumed Laying Date	Day 13	Day 15.5	Day 18
Dimensions (mm)	69.5 × 48.7	67.4 × 49.0	66.4 x 47.2
Volume (cm ³)	78.46	77.03	70.41
Outcome	Hatched	Hatched	Never Hatched

	Chick A	Chick B	- Chilekton
Date first recorded in nest	13-5-95	13-5-95	/
Date of previous nest visit	8-6-95	8-6-95	
Other Information	_	Just hatched: 13-5-95	
Assumed Hatch Date	Day 41.5	Day 44	

		Chick	Α			Chick	В			Chick	MA.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(Gaye)	Rook (min)	(mm)	Myghs.
28-5												,
31-5												1
2-6												/
5-6											/	
8-6											1	
13-6	2.5	19	30	80	Too	Young	To Ma	sure			/	
18-6	15	24	36	180	4	Deo		-				
23-6	12.5	30	51	330						/		
28-6	17,5	34	56	470						/		
3-7	223	38	59	600								
8-7	4-1	115511	NG -	-					/			
13-7									/			
18-7		4							/			

	Egg A 105	Egg B 106	(SED)
Date first recorded in nest	28-5-95	31-5-95	
Date of previous nest visit	25-5-95	28-5-95	
Assumed Laying Date	Day 26.5	Day 29.5	
Dimensions (mm)	63.5 x 46.2	65.2x 46.1	
Volume (cm³)	64.52	65.96	
Outcome	- Never 1-	latched -	

	Egg A 107	Egg B 108	Egg C 109
Date first recorded in nest	14-5-95	17-5-95	19-5-95
Date of previous nest visit	12-5-95	14-5-95	17-5-95
Assumed Laying Date	Day 13	Day 15.5	Day 18
Dimensions (mm)	64.7 x 48.3	63.2 x 47.8	63.4 x 46.8
Volume (cm ³)	71.85	68.74	66.10
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	-CHICLIAN
Date first recorded in nest	13-6-95	13-6-95	/
Date of previous nest visit	8-6-95	8-6-95	
Other Information		Just hatchied: 13-6-95	
Assumed Hatch Date	Day 41.5	Day 44	

		Chick	Α			Chick	В			-Chick		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	4000	G. Beak	Cooling (min)	s sargm
28-5												
31-5												/
2-6												/
5-6											/	
8-6											/	
13-6	2.5	17	29	60	Too	Young	To Me	asure			/	
18-6	7.5	20	35	110	5	18	28	80				
23-6	125	23	45	220	10	22	38	165				
28-6	17.5	26	49	285	15	25	45	255		/		
3-7	27.5	28	54	395	-N	ISSI	16 -	-				
8-7	27.5	32	59	550	25	30	55	465	/			
13-7	32.5	36	61	660	30	34	58	605	/			
18-7	4-1	AISS	NG	-	+ M	ISSIN	16	-	/			

	Egg A 110	Egg B III	-
Date first recorded in nest	12-5-95	14-5-95	
Date of previous nest visit	_	12-5-95	/
Assumed Laying Date	_	Day 13	
Dimensions (mm)	64.8 x 46.5	59,4 × 46.2	
Volume (cm ³)	66.69	60.35	
Outcome	Hatched	Hatched	

	Chick A	Chick B	Object Co.
Date first recorded in nest	8-6-95	13-6-95	/
Date of previous nest visit	5-6-95	8-6-95	
Other Information	-	Egg cracking: 8-6-95	
Assumed Hatch Date	Day 37.5	Day 40.5	

		Chick	Α			Chick	В			-Chicle	Con	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- (USYN)	(man)	Leg-	
28-5												
31-5												
2-6												1
5-6											/	1
8-6	15	18	24	50							/	
13-6	65	19	26	70	54	17	27	75			/	
18-6	11 5	22	35	175	8.,	20	33	100		1		
23-6	16,	24	39	275	7.5	24	37	145		/		
28-6	4				-MIS	SING	_	0		/		
3-7	54 =	35	54	525	+5	28	50	405				
8-7	4-1	4155	1NG-	-	4-N	ISSI	4 G	-	/			
13-7			1			i						
18-7		-				-			/			

	Egg A 112	Egg B 13	Egg C 114
Date first recorded in nest	12-5-95	14-5-95	17-5-95
Date of previous nest visit	-	12-5-95	14-5-95
Assumed Laying Date	_	Day 13	Day 15.5
Dimensions (mm)	71.2 x 47.3	69.2 x 47.7	69.6 ×45.9
Volume(cm ³)	75.82	74.95	69.80
Outcome	Hatched	Habched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	13-6-95	13-6-95	13-6-95
Date of previous nest visit	8-6-95	8-6-95	8-6-95
Other Information	PIPPING: 8	-6-95	_
Assumed Hatch Date	Day 40	Day 40	Day 41.5

		Chick	Α			Chick	В			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5									1			
2-6												
5-6												
8-6												
13-6	4	19	31	90	4	19	30	75	2.5	17	26	55
18-6	9	25	35	145	4	-Deo	д —		7.5	20	29	80
23-6	41	1155	NG-	-					4	Miss	ING.	-
28-6	4-1	418511	VG-	1					4	Miss		
3-7	4-1	418811	VG-	-					4		SING	-8
8-7												
13-7												
18-7												

	Egg 115	Egg 🖷 116	Egg C 117
Date first recorded in nest	12/5/95	12/5/95	12/5/95
Date of previous nest visit	_	_	-
Assumed Laying Date	_	-	-
Dimensions (mm)	67.4 × 48.0	66.3 × 46.7	65.8 × 45.6
Volume (cm³)	73.92	68.83	65.13
Outcome	Hatched	Habched	Hatched

	Chick	Chick	Chick C
Date first recorded in nest	31/5/95	31/5/95	2/6/95
Date of previous nest visit	28/5/95	28/5/95	31/5/95
Other Information	_	_	Just haldhed: 31/5/95
Assumed Hatch Date	Day 29.5	Day 29.5	Day 31

		Chick				Chick				Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5	1.5	18	29	70	1.5	17	30	70	Too	Young	To Mea	sure
2-6	-	-	-	_	_	_	_	_	2	17	26	70
5-6	6.5	23	34	160	6.5	21	33	170	4	-Dea	d —	-
8-6	11.5	26	43	225	11.5	25	43	245				
13-6	16.5	27	48	240	16.5	28	52	360				
18-6	4	-Dear	<i></i>	-	4-1	1155	NG.	-				
23-6					26.5	34	59	600				
28-6					4-1	MISSI	NG-	-				
3-7			1			1						
8-7												
13-7												
18-7						1						

SITE: A

NEST: 58

	Egg A 118	Egg B 119	Egg C 120
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	_	_	N. decimals
Assumed Laying Date	-	_	_
Dimensions (mm)	65.7 x 47.9	67.6 x 48.0	63.6 x 44.9
Volume (cm ³)	71.75	74.14	61.03
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	2-6-95	5-6-95	5/6/95
Date of previous nest visit	31-5-95	2-6-95	2/6/95
Other Information	19 -	Egg cracking: 2-6-95	_
Assumed Hatch Date	Dag 32	Day 34	Day 34.5

		Chick	Α			Chick	В			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5												
2-6	1	17	26	55								
5-6	4	18	26	90	2	18	25	65	15	16	24	55
8-6	4-M	ISSI	vG-		5	20	33	100	4.5	18	29	55
13-6	12	25	39	210	10	23	38	210	9.5	20	30	85
18-6	17	30	52	310	1	liss	NG		4	-Dea	4-	-
23-6	4-1	11551	NG-		1	11881	NG					
28-6	4	118811	vG-	-	4	-Dec	- b	-				
3-7	4-1	11551	NG-	-								
8-7												
13-7												
18-7		-										

	Egg A 121	Egg B 122	Egg C 123
Date first recorded in nest	12-5-95	14-5-95	17-5-95
Date of previous nest visit	-	12-5-95	14-5-95
Assumed Laying Date	_	Day 13	Day 15.5
Dimensions (mm)	71.1 × 47.6	68.4 × 47.7	65.7 x 46.9
Volume (cm³)	76.68	74.08	68.79
Outcome	Broken: 5-6-95	Hatched	Never hatched

	-Ghinletin.	Chick B	- Chicketh
Date first recorded in nest	/	13-6-95	/
Date of previous nest visit		8-6-95	
Other Information		-	/
Assumed Hatch Date		Day 41.5	

	4	Chick	An.			Chick	В			Chick	O.	
Date	- Aguaria	Ellerak (mm)	leg-	- Luga	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	dent.	(ma)	(mm)	Wgh.
28-5				/								,
31-5				1								1
2-6				/								/
5-6			/								/	
8-6			/									
13-6					2.5	17	30	55				
18-6					7.5	20	37	90		/		
23-6					12.5	24	40	205				
28-6		/			17,5	Mis	SINI	6				
3-7					4	Deo	d —	-				
8-7									/			
13-7	/								/			
18-7												

60

	Egg 124	Egg 🐧 125	Egg C 126
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	_	-	_
Assumed Laying Date	_	_	-
Dimensions (mm)	65.7 × 47.9	63.6 x 46.2	61.4 x 46.5
Volume (cm³)	71.75	64.62	63.19
Outcome	Hatched	Hatched	Hatched

	Chick	Chick	Chick C
Date first recorded in nest	31-5-95	31-5-95	2-6-95
Date of previous nest visit	28-5-95	28-5-95	31-5-95
Other Information	-	_	_
Assumed Hatch Date	Day 29.5	Day 29.5	Day 32

		Chick				Chick				Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5	1.5	18	27	60	1,5	18	28	60				
2-6	_	-	-	-	-	-	_	-	1	17	25	55
5-6	6.5	22	34	155	6.5	23	33	150	4	18	30	90
8-6	9.5	27	44	225	9.5	27	43	220	7	22	38	155
13-6	1	MISSI	NG-	-	1	MISSI	NG -	-	12	25	39	220
18-6	195	34	57	460	19.5	33	56	420	17	29	42	290
23-6	1-	MISSII	16-		1	MISS	ING .	1	4	Devi	\ —	
28-6	29.5	38	59	540	215	37	58	500				
3-7	4-1	118511	16-	-	1	Miss	ING -					
8-7						1						
13-7												
18-7		1				-						

	Egg A 127	Egg B 128	Egg C 29
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	-	-	_
Assumed Laying Date	_	_	-
Dimensions (mm)	71.0 x 48.0	66.9 x 48.7	67.8 x 46.4
Volume (cm³)	77.87	75.53	69.48
Outcome	Hatched	Hatched	Habahed

	Chick A	Chick B	Chick C
Date first recorded in nest	31-5-95	31-5-95	2-6-95
Date of previous nest visit	28-5-95	28-5-95	31-5-95
Other Information	Egg cracking: 28-5-95	-	_
Assumed Hatch Date	Day 29	Day 29.5	Day 32

		Chick	Α			Chick	В			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5	2	17	29	80	1.5	17	26	65				
2-6	-	-	_	-	-	_	_	-	1	16	27	55
5-6	7	20	34	165	6.5	21	31	115	4	17	28	65
8-6	10	27	44	250	9.5	25	40	215	1	22	33	125
13-6	5	31	52	390	145	29	51	345	12	25	39	185
18-6	20	35	57	460	11.5	33	55	415	4	4155	ING	
23-6	4-1	11551	NG-	-	4-1	11551	NG -	-	4-1	MISSI	NG.	
28-6									4	MISS	ING	
3-7												
8-7												
13-7												
18-7		1										

	Egg A 130	Egg B 13 I	Egg C 132
Date first recorded in nest	14-5-95	19-5-95	22-5-95
Date of previous nest visit	12-5-95	17-5-95	19-5-95
Assumed Laying Date	Day 13	Day 18	Day 20,5
Dimensions (mm)	68.9 x 48.1	66.3 × 47.9	63.0 x 46.8
Volume (cm³)	75.88	72.41	65.68
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	-Chief Ch
Date first recorded in nest	13 -6-95	18 -6-95	/
Date of previous nest visit	8-6-95	13-6-95	
Other Information	_	_	
Assumed Hatch Date	Day 41.5	Day 46.5	

		Chick	Α			Chick	В			<chiala< th=""><th>CO.</th><th></th></chiala<>	CO.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	-(days)	Bunk (am)	(mm)	Wgd (p)
28-5												
31-5												1
2-6												/
5-6											/	
8-6											/	
13-6	2.5	16	28	60							/	
18-6	7.5	20	31	110	2.5	16	27	60				
23-6	4	De	4-	-	1.5	23	41	135		/		
28-6					12.5	28	46	265				
3-7					17.5	31	56	350				
8-7					4-1	MISS	ING.	-	/			
13-7						1			1			
18-7									/			

SITE: A

NEST: 63

	Egg A 133	Egg B 134	Egg C 135
Date first recorded in nest	12-5-95	14-5-95	17-5-95
Date of previous nest visit	-	12-5-95	14-5-95
Assumed Laying Date	_	Day 13	Day 15.5
Dimensions (mm)	64.8 × 47.4	63.3 × 46.6	63.1 x 45.5
Volume (cm3)	69.30	65.43	62.18
Outcome	Hatched	Broken; 31-5-95	MISSING: 2-6-95

	Chick A	-Chink B.	-Chickelin
Date first recorded in nest	8-6-95		
Date of previous nest visit	5-6-95		
Other Information	Egg cracking: 5-6-95		
Assumed Hatch Date	Day 37		

		Chick	A			Chick				Ghick	G.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(days)	nenk (nenk	Leg (mm)	View (D)	- Control			
28-5												/
31-5											,	
2-6									-		/	
5-6										/		
8-6	2	16	26	55								
13-6	7	19	31	85					/			
18-6	12	22	35	145				/				
23-6	4-1	1881	NG	-				/				
28-6	22	30	51	260			/					
3-7	27	33	55	380								
8-7	4	MISS	ING-	-		/						
13-7					/							
18-7					/							

	Egg A 136	Egg B 137	Egg C 138		
Date first recorded in nest	19-5-95	22-5-95	25-5-95		
Date of previous nest visit	17-5-95	19-5-95	22-5-95		
Assumed Laying Date	Day 18	Day 20.5	Day 23.5		
Dimensions (mm)	61.1 × 45.2	62.2 x 44.1	63.9 x 43.2		
Volume (cm ³)	59.42	57.58	56.76		
Outcome	Hatched	Hatched	Broken; 2-5-95		

	Chick A	Chick B	Chick Co.
Date first recorded in nest	18-6-95	18-6-95	/
Date of previous nest visit	13-6-95	13-6-95	
Other Information	PIPPING: 13-6-95	_	
Assumed Hatch Date	Day 45	Day 46.5	

		Chick	• B			Chick	A			-Chick	105	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Agen (days)	Beirk.	Leg-	Work gle
28-5												/
31-5												/
2-6												/
5-6											/	
8-6												
13-6												
18-6	4	16	24	50	2.5	16	25	55		,		
23-6	4 M	1551		-	4		ING			/		
28-6	4	-Dead		-	4	Miss	SING	-		/		
3-7					4	-De		-		/		
8-7									/			
13-7												
18-7									/			

	Egg A 139	Egg B 140	- dippoin
Date first recorded in nest	12-5-95	12-5-95	/
Date of previous nest visit	_	_	
Assumed Laying Date	_	-	
Dimensions (mm)	70.9 × 47.7	66.4 × 48.1	
Volume (cm3)	76.79	73.12	
Outcome	Hatched	Hatched	

	Chick A	Chick B	- Chick CA
Date first recorded in nest	28-5-95	31-5-95	/
Date of previous nest visit	25-5-95	28-5-95	
Other Information	_	PIPPING: 28-5-95	
Assumed Hatch Date	Day 26.5	Day 28,5	

		Chick	Α			Chick	В			Chick	O. In	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	4900	L Bask (min)	Leg (mm)	Work (gra
28-5	12	17	26	60								/
31-5	-	-	_	_	2.5	20	32	110				/
2-6	6.5	23	37	165	1.5	22	35	155				
5-6	4		MI	SSIN	16-						/	
8-6	4		- MI	SSIN	6-						/	
13-6	4		- M	SSIN	56			-			/	
18-6				1						,		
23-6									1	/		
28-6				60						/		
3-7												
8-7									/			
13-7									/			
18-7				-					/			

	Egg A 141	Egg B 142	ESSELD
Date first recorded in nest	14-5-95	17-5-95	/
Date of previous nest visit	12-5-95	14-5-95	
Assumed Laying Date	Day 13	Day 15.5	
Dimensions (mm)	68.3 x 44.7	64.9 x 44.8	
Volume (cm3)	64.96	62.00	
Outcome	MISSING:	31-5-95	

SITE:

NEST:

Egg A 143 Egg B 144 Egg C 145 14-5-95 12-5-95 12-5-95 Date first recorded in nest 12-5-95 Date of previous nest visit Day 13 **Assumed Laying Date** 58.3 × 43.2 64.0x 44,9 59.1 x 44.9 Dimensions (mm) 56.71 61.42 Volume (cm3) 51.79 Hatched Hatched Never hatched

Outcome

	Chick A	Chick B	Chicketa
Date first recorded in nest	5/6/95	8/6/95	
Date of previous nest visit	2/6/95	5/6/95	
Other Information		_	
Assumed Hatch Date	Day 34.5	Day 37.5	

Date		Chick	Α		Chick B				Children C.			
	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- August	(min)	(leg (mm)	Wyhi.
28-5												/
31-5												/
2-6												/
5-6	1.5	16	21	50							/	
8-6	4.5	18	28	80	1.5	15	24	60			/	
13-6	9.5	24	30	130	45	18	27	80			/	
18-6	145	25	40	335	11.5	21	35	125				
23-6	4-1	11881	NG-	-	1	MISSI	NG -	-		/		
28-6	24.5	32	52	465	4	Miss	SING	-		/		
3-7	295	35	56	595	4	MIS	SING	-				
8-7	4-1	11551	NG-	-					/			
13-7												
18-7									/			

No eggs laid during study period.

SITE: A

NEST: 69

	Egg 角 14-6	Egg 6 147	Egg C 14-8		
Date first recorded in nest	17-5-95	17-5-95	19-5-95		
Date of previous nest visit	_	-	17-5-95		
Assumed Laying Date	_	_	Day 18		
Dimensions (mm)	68.0 x 47.1	63.6 x 47.2	65.6x46.0		
Volume (cm³)	71.81	67.44	66.07		
Outcome	Hatched	Hatched	Hatched		

	Chick	Chick	Chick C
Date first recorded in nest	13-6-95	13-6-95	13-6-95
Date of previous nest visit	8-6-95	8-6-95	8-6-95
Other Information	_	_	Just hatched: 13-6-95
Assumed Hatch Date	Day 41.5	Day 41.5	Day 44

Date		Chick			Chick				Chick C			
	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wgh (g)
28-5												
31-5												
2-6												
5-6												
8-6												
13-6	2.5	18	27	80	2,5	17	26	70	Too	Young	TOM	asore
18-6	4	Dear	\—	-	1	11551	NG-	-		11SSI		
23-6					12.5	24	45	295	1	Aissi	v G	
28-6					175	28	55	350	1	115511	16	
3-7					22.5	31	57	390		1		
8-7					2/5	34	59	500				
13-7					4-N	15511	16 -	-				
18-7												

No eggs laid during study period.

	Egg A 149	Egg B 50	
Date first recorded in nest	12-5-95	12-5-95	/
Date of previous nest visit	-	-	
Assumed Laying Date	_	_	
Dimensions (mm)	71.1 x 49.5	65.5 x 47.1	
Volume (cm ³)	82.93	69.17	
Outcome	Hatched	Hatched	

	Chick A	Chick B	- Chicke Gr.
Date first recorded in nest	31-5-95	2-6-95	/
Date of previous nest visit	28-5-95	31-5-95	
Other Information	_	Just halched: 2-6-95	
Assumed Hatch Date	Day 29.5	Day 33	

		Chick	Α			Chick	В			-Chicic	MA.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	400	(min)	Leg-	Signi (c)
28-5												1
31-5	1.5	18	31	80								/
2-6	-	_	_	_	Too	Young -	o Ma	sure				/
5-6	73	22	35	180	3	18	25	70			/	
8-6	15	29	50	310	1.5	24	39	195				
13-6	14 5	34	57	505	4-1	1155	ING	-			/	
18-6	+M	ISSI	VG-	-	-x-	31	52	345				
23-6					4	MIS	SING	-		/		
28-6										/		
3-7												
8-7									/			
13-7									/			
18-7		9				-			/			

	Egg 1 151	Egg 🚺 152	Egg C 153
Date first recorded in nest	12-5-95	12-5-95	14-5-95
Date of previous nest visit	-	-	12-5-95
Assumed Laying Date	-	_	Day 13
Dimensions (mm)	68.2 x 47.6	66.0x 47.0	64.7×46.9
Volume (c m3)	73.55	69.40	67.74
Outcome	- Mis	SING; 25/5	195-

	Egg A 154	Egg B 155	Egg C 156
Date first recorded in nest	12-5-95	14-5-95	17-5-95
Date of previous nest visit	_	12-5-95	14-5-95
Assumed Laying Date	_	Day 13	Day 15.5
Dimensions (mm)	63.1 x 46.4	66.9 x 44.3	65.4 × 44.5
Volume (cm ³)	64.67	62.49	61.65
Outcome	Hatched	Hatched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	13-6-95	13-6-95	13-6-95
Date of previous nest visit	8-6-95	8-6-95	8-6-95
Other Information	Egg Grading: 8-6-95	-	_
Assumed Hatch Date	Day 40.5	Day 41.5	Day 41.5

		Chick	B			Chick	• A			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5												
2-6												
5-6												
8-6												
13-6	3.5	17	24	65	2.5	18	27	60	15	17	24	50
18-6	4				- M	ISSI	NG			1		-
23-6	4				- M	1881	NG					B
28-6	4				- 1	1881	ING					0
3-7						1						
8-7												
13-7			- 1									
18-7												

	Egg 🖍 157	Egg 158	-00000
Date first recorded in nest	12-5-95	12-5-95	/
Date of previous nest visit	-	_	
Assumed Laying Date	_	_	
Dimensions (mm)	65.1 x 48.3	60.5 × 46,2	
Volume (cm³)	72.29	61.47	
Outcome	Never hatched	Died as hatching	

		Chick	-Ghisin On
Date first recorded in nest	/	8/6/95	/
Date of previous nest visit		5/6/95	
Other Information		Dead as hatching: 8/6/95	
Assumed Hatch Date		Day 39	

						Chick				-Chick	IGN.	
Date	Date ((5)	1	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(days)	Beak (nim)	Leg (nun)	(9)A
28-5				/								/
31-5												/
2-6												/
5-6			/								/	
8-6			/		Dea	d as	hatch	ing			/	
13-6			/								/	
18-6		,										
23-6										/		
28-6		/								/		
3-7												
8-7	/								/			
13-7												
18-7	/								/			

No eggs laid during study period.

	Egg A 159	Egg B 160	Egg C 161
Date first recorded in nest	17-5-95	22-5-95	25-5-95
Date of previous nest visit	14-5-95	19-5-95	22-5-95
Assumed Laying Date	Day 15.5	Day 20.5	Day 23.5
Dimensions (mm)	66.8 × 47.7	65.4 x 47.4	64.9 x 45.3
Volume (cm3)	72.35	69.94	63.39
Outcome	Hatched	Hatched	Never hatched

	Chick A	Chick B	CHRIST
Date first recorded in nest	13-6-95	18-6-95	/
Date of previous nest visit	8-6-95	13-6-95	
Other Information	Just hatched 13-6-95	Just hatched: 18-6-95	
Assumed Hatch Date	Day 44	Day 49	

		Chick	Α			Chick	В			Chicke		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	-Agent	Bnak (nm)	(mm)	West (a)
28-5												
31-5												1
2-6												/
5-6											/	
8-6											/	
13-6	Too	Young	TOM	asure							/	
18-6	5	22	47	130	Too	Young '	To Ma	asure		/		
23-6	10	28	49	270	4-1	1155	ING-	-		/		
28-6	15	32	52	425	4	Deac	L —	-		/		
3-7	20	35	55	580								
8-7	4-1	1155	NG-	-					/			
13-7		1							/			
18-7		987							/			

	Egg A 62	Egg B 63	Egg C 164
Date first recorded in nest	17-5-95	19-5-95	25-5-95
Date of previous nest visit	14-5-95	17-5-95	22-5-95
Assumed Laying Date	Day 15.5	Day 18	Day 23.5
Dimensions (mm)	70.1 × 47.2	65.9 × 46.3	65.1 x 45.6
Volume (cm3)	74.34	67.24	64.43
Outcome	Hatched	Hatched	Broken: 28-5-95

	Chick A	Chick B	ChicksGa
Date first recorded in nest	18-6-95	18-6-95	/
Date of previous nest visit	13-6-95	13-6-95	
Other Information	_	_	
Assumed Hatch Date	Day 46.5	Day 46.5	

		Chick	• B			Chick	• A			Children		
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	(Chyo)	Beak (mm)	(mn)	VValue (ch.
28-5												/
31-5		4										/
2-6												/
5-6											/	
8-6											/	
13-6											/	
18-6	2.5	17	27	65	2.5	15	28	65		1		
23-6	7.5	24	41	130	7.5	23	38	150		/		
28-6	12.5	29	46	250	12.5	27	44	305		/		
3-7	17.5	31	56	355	17.5	31	54	400		/		
8-7	22.5	33	58	495	4-1	1185	NG	-	/			
13-7	27.5	35	60	605	4-1	4155	ING	-	/			
18-7	4-1	115511	16-	•	7	1						

	Egg A 165	Egg B 166	Egg C 167
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	_	_	_
Assumed Laying Date	_	_	-
Dimensions (mm)	66.5 x48.6	63.5 x 48.5	63.9×47.4
Volume (cm ³)	74.77	71.10	68.34
Outcome	Hatched	Habched	Hatched

	- 3/35/2.		
	Chick A	Chick B	Chick C
Date first recorded in nest	31-5-95	31-5-95	2-6-95
Date of previous nest visit	28-5-95	28-5-95	31-5-95
Other Information	Egg cracking: 28/5/95	_	_
Assumed Hatch Date	Day 29	Day 29.5	Day 32

		Chick	B			Chick	A a	E.		Chick	C	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5	-2	18	26	70	1.5	17	28	65				
2-6	-	_	-	_	-	-	_	-	1	17	28	60
5-6	7	22	31	125	1	1155	NG-	-	4	17	28	65
8-6	10	26	41	225	9.5	23	38	160	4-1	11881	NG-	-
13-6	15	30	51	400	14.5	27	45	300	4-1	1155	NG-	-
18-6	20	33	55	510	19.5	30	50	465	4-1	1188	NG -	-
23-6	25	36	58	600	24.5	33	54	555				
28-6	N	115511	16-		1	118811	16-	-				
3-7									1		-	
8-7												
13-7					1							
18-7		1				-						

SITE:

	Egg A \68	Egg B 169	Egg C 170
Date first recorded in nest	17-5-95	22-5-95	28-5-95
Date of previous nest visit	14-5-95	19-5-95	25-5-95
Assumed Laying Date	Day 15.5	Day 20.5	Day 26.5
Dimensions (mm)	62.3 x 46.4	64.6 x 45.0	67.5 × 47.2
Volume (cm³)	63.85	62.27	71.58
Outcome	MISSING: 19/5/95	MISSING: 31/5/95	Broken; 31/5/95

	Egg A 17	Egg B 172	Egg C 17.3
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	-	_	_
Assumed Laying Date	-	-	-
Dimensions (mm)	65.2×45.7	62.3 x 45.8	63,4 × 43,5
Volume (cm ³)	64.82	62.21	57.11
Outcome	Hatched	Habched	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	31-5-95	31-5-95	2-6-95
Date of previous nest visit	28-5-95	28-5-95	31-5-95
Other Information	Egg cracking: 28-5-95	_	_
Assumed Hatch Date	Day 29	Day 29.5	Day 32

		Chick	Α			Chick	В			Chick	C	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5	2	17	30	70	15	17	28	60				
2-6	_	_	_	-	-	_	_	-	1	16	26	45
5-6	7	22	33	145	6.5	21	35	130	4	17	28	60
8-6	1	11881	NG-	-	9.5	27	45	250	1	19	32	110
13-6	15	31	51	410	14.5	29	52	340	12	23	38	190
18-6	20	33	55	520	19.5	33	56	490	4-M	15511	NG -	P
23-6	1	115511	NG-	-	11-	35	59	590	22	29	51	470
28-6					1	11551	NG -	-	4.1	11SSIN	16-	-
3-7									4-1	4155	ING.	1
8-7												
13-7												
18-7												

	Egg A 174	-digital.	distant.
Date first recorded in nest	12/5/95		/
Date of previous nest visit	-		
Assumed Laying Date	_		
Dimensions (mm)	64.1 × 49.4		
Volume (cm³)	74.46		
Outcome	MISSING: 22/5/95		

No eggs laid during study period.

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	Egg A \75	Egg B 176	desti
Date first recorded in nest	22-5-95	25-5-95	/
Date of previous nest visit	19-5-95	22-5-95	
Assumed Laying Date	Day 20,5	Day 23.5	
Dimensions (mm)	68.6 × 47.3	68.8 x 47.3	
Volume (cm³)	73.06	73.27	
Outcome	Hatched	Never hatched	

	Chick A	OMINE B	Contract Co.
Date first recorded in nest	18-6-95		
Date of previous nest visit	13-6-95		
Other Information	_		
Assumed Hatch Date	Day 46.5		

		Chick	Α			GHIGH	Bh			Chiefe	100	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- department	(nim)	(a La La (dim)	Work.	(Up)	Eest (mm)	Lung (irim):	Mich (gra
28-5												/
31-5												
2-6											/	
5-6										/		
8-6										/		
13-6									/			
18-6	2.5	17	25	55				/				
23-6	7.5	20	32	100				/				
28-6	12.5	25	40	170			/					
3-7	17,5	30	47	330								
8-7	4-1	1155	ING.	A		/						
13-7	27.5	37	58	550	/							
18-7	4-1	11551	NG-		/							

	Egg 177	Egg 178	Egg C 179
Date first recorded in nest	12/5/95	12/5/95	12/5/95
Date of previous nest visit			-
Assumed Laying Date	-	_	_
Dimensions (mm)	69.6 x 47.0	66.2 x 46.5	67.6 x 45.7
Volume (cm ³)	73.18	68.14	67.20
Outcome	Hatched	Hatched	Hatched

	Chick	Chick	Chick C
Date first recorded in nest	31/5/95	31/5/95	216195
Date of previous nest visit	28 15 195	28/5/95	31/6/95
Other Information	_	-	_
Assumed Hatch Date	Day 29.5	Day 29.5	Day 32

		Chick				Chick				Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5								4				
31-5	1.5	17	29	70	1,5	18	28	60				
2-6	-	_	_	= 1	-	-	-	_	- 1	17	28	50
5-6	16	22	33	170	4	-Dear	7-	-	4	17	28	80
8-6	7.5	26	45	235					7	21	34	120
13-6	145	33	52	355					12	25	38	180
18-6	11.5	36	55	510					17	30	41	290
23-6	-N	11881	NG-	-					4 M	1881	NG	
28-6									4-M	18811	v G.	-
3-7									4-1	118811	VG	
8-7												
13-7												
18-7		-								-		

NEST: 85

	Egg A 180	Egg B 181	Egg C 182
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit	_	-	-
Assumed Laying Date	_	_	_
Dimensions (mm)	68.3 x 48.4	69.6x 48.3	63.7 x 46.8
Volume (cm ³)	76.16	77.29	66.41
Outcome	Hatched	Habahed	Hatched

	Chick A	Chick B	Chick C
Date first recorded in nest	28/5/95	28-5-95	31-5-95
Date of previous nest visit	25/5/95	25-5-95	28-5-95
Other Information	-	Just hatched: 28-5-95	-
Assumed Hatch Date	Day 26.5	Day 28	Day 29.5

		Chick	Α			Chick	В			Chick	С	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5	1,5	16	25	65	700	Young	To Me	isure				
31-5	4.5	20	33	120	3	16	30	90	1.5	16	26	80
2-6	-	_	-	-	-	-	-	-	-	-	-	-
5-6	75	23	38	160	8	23	36	180	1	1155	NG-	-
8-6	12.5	25	42	215	11	25	43	260	4-1	11881	NG-	-
13-6	17.5	27	47	330	16	29	51	375	4-1	MISSI	NG-	-
18-6	22:	31	54	515	21	33	56	550				
23-6	4		- 1	1185	ING							
28-6												
3-7												
8-7												
13-7												
18-7				-						-		

	Egg A 183	- days th.	-East-On
Date first recorded in nest	12-5-95		/
Date of previous nest visit	-		
Assumed Laying Date	_		
Dimensions (mm)	66.0 x 45.3		
Volume (cm³)	64.47		
Outcome	Hatched		

	Chick A	 Objectedos.
Date first recorded in nest	28-5-95	
Date of previous nest visit	25-5-95	
Other Information	Just hatched: 28 595	
Assumed Hatch Date	Day 28	

		Chick	Α			Chick	В. —		Chiek	alla.	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	- Control	(mm)	(fema)	(6)	Brake K (min)	- (rem)	I William
28-5	Too	Young	To Ma	sure							/
31-5	4	Deo	d-	-						,	
2-6										/	
5-6									/		
8-6											
13-6											
18-6								/			
23-6								/			
28-6							/				
3-7											
8-7											
13-7					/						
18-7					/						

	Egg 184	Egg 185	Egg 186
Date first recorded in nest	12-5-95	12-5-95	12-5-95
Date of previous nest visit		-	_
Assumed Laying Date	_	~	_
Dimensions (mm)	70.0 x 48.2	70.0x47.3	66.2 x 46.2
Volume (cm ³)	77.41	74.55	67.26
Outcome	Hatched	Hatched	MISSING: 19-5-95

	Chick	Chick			
Date first recorded in nest	28-5-95	28-5-95			
Date of previous nest visit	25-5-95	25-5-95			
Other Information	-				
Assumed Hatch Date	Day 26.5	Day 26.5			

Date		Chick				Chick				ditte	ages.	
	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	4			- (a)
28-5	1.5	18	27	65	1.5	16	28	55				/
31-5	-	-	-	-	_	~	_	_				/
2-6	6.5	22	37	190	6.5	21	33	145				/
5-6	115	25	42	270	9.5	25	40	220			/	
8-6	12.5	30	53	390	12.5	27	48	320			/	
13-6	# M	1881	NG-	-	11.5	33	53	485			/	
18-6	27.5	38	61	665	12.5	36	59	595		,	/	
23-6	4		- M	1881	NG-					/		
28-6	4-1	11551	NG-		315	41	63	805		/		
3-7					4-1	41551	NG-	-		/		
8-7									/			
13-7									1			
18-7						+			/			

	Egg A 187				
Date first recorded in nest	12-5-95				
Date of previous nest visit	_				
Assumed Laying Date	_				
Dimensions (mm)	64.2×46.9				
Volume (cm ³)	67.22				
Outcome	Never Hatched.				

W.,	Egg 🖍 \88	Egg 🖷 189	Egg C 190		
Date first recorded in nest	12/5/95	12/5/95	12/5/95		
Date of previous nest visit	_	_	_		
Assumed Laying Date	_	_	_		
Dimensions (mm)	72.1 × 47.2	70.5 x 47.1	68.0 × 46.5		
Volume (cm ³)	76.46	74.45	69.99 Hatched		
Outcome	Hatched	Haloched			

	Chick	Chick	Chick C
Date first recorded in nest	2 /6 /95	2/6/95	5/6/95
Date of previous nest visit	31/5/95	31/5/95	2/6/95
Other Information	_	_	_
Assumed Hatch Date	Day 32	Day 32	Day 34.5

		Chick				Chick				Chick	C	
Date	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)	Age (days)	Beak (mm)	Leg (mm)	Wght (g)
28-5												
31-5												
2-6	1	15	27	60	1	18	26	60				
5-6	4	17	29	80	4	18	26	75	1.5	15	22	50
8-6	7	22	35	145	7	21	33	115	4.5	17	28	85
13-6	12	26	38	225	12	26	41	230		-Dea	2-	-
18-6	17	27	51	315	17	30	52	420				
23-6			1	185	ING			-				
28-6	27	36	55	520	27	37	57	635				
3-7	4-1	11551	NG-		1	11551	NG -	-				
8-7									1,			
13-7												
18-7		1										

