

Poaching impact on the elephant population in Niassa Reserve, Mozambique, revealed by combined survey trends for live elephants and carcasses

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TABLE S1 The values determined using the *Microsoft Excel 2010 Solver* add-in (evolutionary method) for the elephant *Loxodonta africana* population in Niassa National Reserve, Mozambique, during 1987 (N_{1987}) and the constants b (mean birth rate), f (factor relating 1+2 carcass ratio to mortality rate) and c (number of years that carcasses remain recognizable) that maximized the index value (calculated using Martin's, 1992, maximum likelihood estimator; Dunham, 2008) when running a simple model of an elephant population. The modelled population was fitted to the observed trends in the numbers of both live elephants and carcasses.

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
1	N_{1987}	100	6,945	7,120	6,635		
	b	0	0.0276	0.0432	0.0462		
	f	0.5	4.177	3.564	3.215		
	c	1	2	5	6		
<i>Index value</i>			2.8200882E-55	2.9559256E-06	4.5164955E-06		
2	N_{1987}	5,050	6,635				
	b	0	0.0462				
	f	0.5	3.215				
	c	1	6				
<i>Index value</i>			4.5164955E-06				
3	N_{1987}	10,000	6,635				
	b	0	0.0462				
	f	0.5	3.215				
	c	1	6				
<i>Index value</i>			4.5164955E-06				
4	N_{1987}	100	4,981	7,124	6,636		
	b	0.125	0.0568	0.0432	0.0462		
	f	0.5	7.400	3.564	3.215		
	c	1	4	5	6		
<i>Index value</i>			1.8138677E-42	2.9559565E-06	4.5164912E-06		
5	N_{1987}	5,050	6,635				
	b	0.125	0.0462				
	f	0.5	3.215				
	c	1	6				
<i>Index value</i>			4.5164955E-06				
6	N_{1987}	10,000	1,789	6,635			
	b	0.125	0.0992	0.0462			
	f	0.5	6.390	3.215			
	c	1	5	6			
<i>Index value</i>			4.9067306E-51	4.5164955E-06			
7	N_{1987}	100	6,639				
	b	0.25	0.0461				
	f	0.5	3.215				
	c	1	6				
<i>Index value</i>			4.5164290E-06				

Scenario	Unknown	Start	Predicted					
			Run 1	Run 2	Run 3	Run 4	Run 5	
8	N_{1987}	5,050	6,636					
	b	0.25	0.0462					
	f	0.5	3.215					
	c	1	6					
	<i>Index value</i>		4.5164912E-06					
9	N_{1987}	10,000	6,635					
	b	0.25	0.0462					
	f	0.5	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
10	N_{1987}	100	6,635					
	b	0	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
11	N_{1987}	5,050	6,635					
	b	0	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
12	N_{1987}	10,000	7,139	7,124	7,125	7,128	6,643	
	b	0	0.0431	0.0432	0.0432	0.0431	0.0461	
	f	10.25	3.564	3.564	3.564	3.564	3.215	
	c	1	5	5	5	5	6	
	<i>Index value</i>		2.9554103E-06	2.9559565E-06	2.9559526E-06	2.9559129E-06	4.5162317E-06	
13	N_{1987}	100	6,635					
	b	0.125	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
14	N_{1987}	5,050	6,635					
	b	0.125	0.0462					
	f	10.25	3.216					
	c	1	6					
	<i>Index value</i>		4.5164954E-06					
15	N_{1987}	10,000	6,635					
	b	0.125	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
16	N_{1987}	100	6,635					
	b	0.25	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164955E-06					
17	N_{1987}	5,050	6,635					
	b	0.25	0.0462					
	f	10.25	3.215					
	c	1	6					
	<i>Index value</i>		4.5164922E-06					
18	N_{1987}	10,000	6,636					
	b	0.25	0.0462					

Scenario	Unknown	Start	Predicted					
			Run 1	Run 2	Run 3	Run 4	Run 5	
	<i>f</i>	10.25		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164912E-06					
19	N_{1987}	100		6,637				
	<i>b</i>	0		0.0461				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164787E-06					
20	N_{1987}	5,050		6,644				
	<i>b</i>	0		0.0461				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5161619E-06					
21	N_{1987}	10,000		6,635				
	<i>b</i>	0		0.0462				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164955E-06					
22	N_{1987}	100		6,635				
	<i>b</i>	0.125		0.0462				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164955E-06					
23	N_{1987}	5,050		6,635				
	<i>b</i>	0.125		0.0462				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164955E-06					
24	N_{1987}	10,000		6,635				
	<i>b</i>	0.125		0.0462				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164955E-06					
25	N_{1987}	100		6,634				
	<i>b</i>	0.25		0.0462				
	<i>f</i>	20		3.216				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164917E-06					
26	N_{1987}	5,050		6,857				
	<i>b</i>	0.25		0.0437				
	<i>f</i>	20		3.289				
	<i>c</i>	1		6				
<i>Index value</i>			3.6360218E-06					
27	N_{1987}	10,000		6,635				
	<i>b</i>	0.25		0.0462				
	<i>f</i>	20		3.215				
	<i>c</i>	1		6				
<i>Index value</i>			4.5164955E-06					
28	N_{1987}	100		6,637				
	<i>b</i>	0		0.0461				
	<i>f</i>	0.5		3.215				
	<i>c</i>	5		6				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
<i>Index value</i>			4.5164787E-06				
29	N_{1987}	5,050	6,637				
	b	0	0.0461				
	f	0.5	3.215				
	c	5	6				
<i>Index value</i>			4.5164787E-06				
30	N_{1987}	10,000	4,064	6,635			
	b	0	0.0493	0.0462			
	f	0.5	4.084	3.215			
	c	5	10	6			
<i>Index value</i>			5.2194972E-36	4.5164955E-06			
31	N_{1987}	100	5,936	6,639			
	b	0.125	0.0707	0.0461			
	f	0.5	6.161	3.215			
	c	5	2	6			
<i>Index value</i>			6.4075777E-42	4.5164290E-06			
32	N_{1987}	5,050	6,635				
	b	0.125	0.0462				
	f	0.5	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				
33	N_{1987}	10,000	6,635				
	b	0.125	0.0462				
	f	0.5	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				
34	N_{1987}	100	6,242				
	b	0.25	0.0488				
	f	0.5	4.342				
	c	5	1				
<i>Index value</i>			2.1977852E-55				
35	N_{1987}	5,050	6,635				
	b	0.25	0.0462				
	f	0.5	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				
36	N_{1987}	10,000	6,635				
	b	0.25	0.0462				
	f	0.5	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				
37	N_{1987}	100	6,635				
	b	0	0.0462				
	f	10.25	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				
38	N_{1987}	5,050	6,635				
	b	0	0.0462				
	f	10.25	3.215				
	c	5	6				
<i>Index value</i>			4.5164955E-06				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
39	N_{1987}	10,000	6,646				
	b	0	0.0461				
	f	10.25	3.215				
	c	5	6				
	<i>Index value</i>			4.5159979E-06			
40	N_{1987}	100	6,638				
	b	0.125	0.0461				
	f	10.25	3.215				
	c	5	6				
	<i>Index value</i>			4.5164579E-06			
41	N_{1987}	5,050	7,124	6,635			
	b	0.125	0.0432	0.0462			
	f	10.25	3.564	3.215			
	c	5	5	6			
	<i>Index value</i>			2.9559565E-06	4.5164955E-06		
42	N_{1987}	10,000	6,635				
	b	0.125	0.0462				
	f	10.25	3.215				
	c	5	6				
	<i>Index value</i>			4.5164955E-06			
43	N_{1987}	100	7,129	7,124	6,637		
	b	0.25	0.0431	0.0432	0.0461		
	f	10.25	3.564	3.564	3.215		
	c	5	5	5	6		
	<i>Index value</i>			2.9558904E-06	2.9559565E-06	4.5164787E-06	
44	N_{1987}	5,050	6,635				
	b	0.25	0.0462				
	f	10.25	3.215				
	c	5	6				
	<i>Index value</i>			4.5164955E-06			
45	N_{1987}	10,000	6,635				
	b	0.25	0.0462				
	f	10.25	3.215				
	c	5	6				
	<i>Index value</i>			4.5164955E-06			
46	N_{1987}	100	7,124	7,127	6,636		
	b	0	0.0432	0.0432	0.0462		
	f	20	3.564	3.564	3.215		
	c	5	5	5	6		
	<i>Index value</i>			2.9559565E-06	2.9559308E-06	4.5164912E-06	
47	N_{1987}	5,050	6,659	6,641			
	b	0	0.0460	0.0461			
	f	20	3.215	3.215			
	c	5	6	6			
	<i>Index value</i>			4.5141379E-06	4.5163467E-06		
48	N_{1987}	10,000	6,636				
	b	0	0.0462				
	f	20	3.215				
	c	5	6				
	<i>Index value</i>			4.5164912E-06			
49	N_{1987}	100	6,635				
	b	0.125	0.0462				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
	<i>f</i>	20	3.215				
	<i>c</i>	5	6				
<i>Index value</i>			4.5164955E-06				
50	N_{1987}	5,050	6,635				
	<i>b</i>	0.125	0.0462				
	<i>f</i>	20	3.215				
	<i>c</i>	5	6				
<i>Index value</i>			4.5164955E-06				
51	N_{1987}	10,000	9,016				
	<i>b</i>	0.125	0.0644				
	<i>f</i>	20	16.408				
	<i>c</i>	5	1				
<i>Index value</i>			1.1309421E-56				
52	N_{1987}	100	6,635				
	<i>b</i>	0.25	0.0462				
	<i>f</i>	20	3.215				
	<i>c</i>	5	6				
<i>Index value</i>			4.5164955E-06				
53	N_{1987}	5,050	6,636				
	<i>b</i>	0.25	0.0462				
	<i>f</i>	20	3.215				
	<i>c</i>	5	6				
<i>Index value</i>			4.5164912E-06				
54	N_{1987}	10,000	8,020		6,637		
	<i>b</i>	0.25	0.0241		0.0461		
	<i>f</i>	20	8.728		3.215		
	<i>c</i>	5	2		6		
<i>Index value</i>			3.1360824E-39	4.5164787E-06			
55	N_{1987}	100	6,943		6,634		
	<i>b</i>	0	0.0438		0.0462		
	<i>f</i>	0.5	3.210		3.216		
	<i>c</i>	10	6		6		
<i>Index value</i>			4.1537026E-06	4.5164917E-06			
56	N_{1987}	5,050	7,121		6,636		
	<i>b</i>	0	0.0432		0.0462		
	<i>f</i>	0.5	3.564		3.215		
	<i>c</i>	10	5		6		
<i>Index value</i>			2.9559403E-06	4.5164912E-06			
57	N_{1987}	10,000	9,607		6,635		
	<i>b</i>	0	0.0416		0.0462		
	<i>f</i>	0.5	1.437		3.215		
	<i>c</i>	10	10		6		
<i>Index value</i>			3.3374259E-51	4.5164955E-06			
58	N_{1987}	100	6,636				
	<i>b</i>	0.125	0.0462				
	<i>f</i>	0.5	3.215				
	<i>c</i>	10	6				
<i>Index value</i>			4.5164912E-06				
59	N_{1987}	5,050	6,635				
	<i>b</i>	0.125	0.0462				
	<i>f</i>	0.5	3.215				
	<i>c</i>	10	6				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
<i>Index value</i>			4.5164955E-06				
60	N_{1987}	10,000	6,635				
	b	0.125	0.0462				
	f	0.5	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
61	N_{1987}	100	6,640				
	b	0.25	0.0461				
	f	0.5	3.215				
	c	10	6				
<i>Index value</i>			4.5163920E-06				
62	N_{1987}	5,050	6,636				
	b	0.25	0.0462				
	f	0.5	3.215				
	c	10	6				
<i>Index value</i>			4.5164912E-06				
63	N_{1987}	10,000	6,635				
	b	0.25	0.0462				
	f	0.5	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
64	N_{1987}	100	6,635				
	b	0	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
65	N_{1987}	5,050	6,635				
	b	0	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
66	N_{1987}	10,000	6,635				
	b	0	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
67	N_{1987}	100	6,634				
	b	0.125	0.0462				
	f	10.25	3.216				
	c	10	6				
<i>Index value</i>			4.5164917E-06				
68	N_{1987}	5,050	6,637				
	b	0.125	0.0461				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164787E-06				
69	N_{1987}	10,000	6,635				
	b	0.125	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
70	N_{1987}	100	6,640				
	b	0.25	0.0461				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5163833E-06				
71	N_{1987}	5,050	6,636				
	b	0.25	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164912E-06				
72	N_{1987}	10,000	6,635				
	b	0.25	0.0462				
	f	10.25	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
73	N_{1987}	100	6,636				
	b	0	0.0462				
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5164912E-06				
74	N_{1987}	5,050	6,635				
	b	0	0.0462				
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
75	N_{1987}	10,000	7,124	6,635			
	b	0	0.0432	0.0462			
	f	20	3.564	3.215			
	c	10	5	6			
<i>Index value</i>			2.9559565E-06	4.5165E-06			
76	N_{1987}	100	6,639	6,637	6,634		
	b	0.125	0.0461	0.0461	0.0462		
	f	20	3.215	3.215	3.216		
	c	10	6	6	6		
<i>Index value</i>			4.5164290E-06	4.5164782E-06	4.5164917E-06		
77	N_{1987}	5,050	6,362	6,635			
	b	0.125	0.0329	0.0462			
	f	20	4.244	3.215			
	c	10	3	6			
<i>Index value</i>			3.6837913E-37	4.5164955E-06			
78	N_{1987}	10,000	6,635				
	b	0.125	0.0462				
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
79	N_{1987}	100	6,637				
	b	0.25	0.0461				
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5164787E-06				
80	N_{1987}	5,050	6,635				
	b	0.25	0.0462				

Scenario	Unknown	Start	Predicted				
			Run 1	Run 2	Run 3	Run 4	Run 5
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5164955E-06				
81	N_{1987}	10,000	6,635				
	b	0.25	0.0462				
	f	20	3.215				
	c	10	6				
<i>Index value</i>			4.5165E-06				

Table S2 The values determined using the *Microsoft Excel 2010 Solver* add-in (evolutionary method) for the elephant *Loxodonta africana* population in Niassa National Reserve, Mozambique, during 1987 (N_{1987}) and the constants b (mean birth rate), f (factor relating 1+2 carcass ratio to mortality rate) and c (number of years that carcasses remain recognizable) that maximized the index value (calculated using Martin's, 1992, maximum likelihood estimator; Dunham, 2008) when running a simple model of an elephant population. The modelled population was fitted to the observed numbers of live elephants only.

Scenario	Unknown	Start	Predicted
1	N_{1987}	100	4,598
	b	0	0.0909
	f	0.5	11.266
	<i>Index value</i>		0.072641
2	N_{1987}	5,050	4,584
	b	0	0.0912
	f	0.5	11.323
	<i>Index value</i>		0.072653
3	N_{1987}	10,000	4,593
	b	0	0.0910
	f	0.5	11.290
	<i>Index value</i>		0.072649
4	N_{1987}	100	4,583
	b	0.125	0.0913
	f	0.5	11.325
	<i>Index value</i>		0.072653
5	N_{1987}	5,050	4,585
	b	0.125	0.0912
	f	0.5	11.321
	<i>Index value</i>		0.072653
6	N_{1987}	10,000	4,585
	b	0.125	0.0912
	f	0.5	11.321
	<i>Index value</i>		0.072653
7	N_{1987}	100	4,586
	b	0.25	0.0912
	f	0.5	11.317
	<i>Index value</i>		0.072653
8	N_{1987}	5,050	4,585
	b	0.25	0.0912
	f	0.5	11.321
	<i>Index value</i>		0.072653
9	N_{1987}	10,000	4,584
	b	0.25	0.0912
	f	0.5	11.324
	<i>Index value</i>		0.072653
10	N_{1987}	100	4,585
	b	0	0.0912
	f	10.25	11.321
	<i>Index value</i>		0.072653
11	N_{1987}	5,050	4,585
	b	0	0.0912
	f	10.25	11.321
	<i>Index value</i>		0.072653

Scenario	Unknown	Start	Predicted
12	N_{1987}	10,000	4,585
	b	0	0.0912
	f	10.25	11.321
<i>Index value</i>			0.072653
13	N_{1987}	100	4,585
	b	0.125	0.0912
	f	10.25	11.321
<i>Index value</i>			0.072653
14	N_{1987}	5,050	4,585
	b	0.125	0.0912
	f	10.25	11.321
<i>Index value</i>			0.072653
15	N_{1987}	10,000	4,586
	b	0.125	0.0912
	f	10.25	11.317
<i>Index value</i>			0.072653
16	N_{1987}	100	4,586
	b	0.25	0.0912
	f	10.25	11.319
<i>Index value</i>			0.072653
17	N_{1987}	5,050	4,585
	b	0.25	0.0912
	f	10.25	11.321
<i>Index value</i>			0.072653
18	N_{1987}	10,000	4,586
	b	0.25	0.0912
	f	10.25	11.316
<i>Index value</i>			0.072653
19	N_{1987}	100	4,585
	b	0	0.0912
	f	20	11.321
<i>Index value</i>			0.072653
20	N_{1987}	5,050	4,586
	b	0	0.0912
	f	20	11.319
<i>Index value</i>			0.072653
21	N_{1987}	10,000	4,585
	b	0	0.0912
	f	20	11.321
<i>Index value</i>			0.072653
22	N_{1987}	100	4,585
	b	0.125	0.0912
	f	20	11.321
<i>Index value</i>			0.072653
23	N_{1987}	5,050	4,585
	b	0.125	0.0912
	f	20	11.318
<i>Index value</i>			0.072653
24	N_{1987}	10,000	4,584
	b	0.125	0.0913
	f	20	11.326
<i>Index value</i>			0.072653
25	N_{1987}	100	4,587

Scenario	Unknown	Start	Predicted
	<i>b</i>	0.25	0.0912
	<i>f</i>	20	11.316
<i>Index value</i>			0.072653
26	N_{1987}	5,050	4,585
	<i>b</i>	0.25	0.0912
	<i>f</i>	20	11.321
<i>Index value</i>			0.072653
27	N_{1987}	10,000	4,585
	<i>b</i>	0.25	0.0912
	<i>f</i>	20	11.321
<i>Index value</i>			0.072653
28	N_{1987}	100	4,587
	<i>b</i>	0	0.0912
	<i>f</i>	0.5	11.317
<i>Index value</i>			0.072653
29	N_{1987}	5,050	4,587
	<i>b</i>	0	0.0912
	<i>f</i>	0.5	11.315
<i>Index value</i>			0.072653
30	N_{1987}	10,000	4,680
	<i>b</i>	0	0.0886
	<i>f</i>	0.5	10.813
<i>Index value</i>			0.071614
31	N_{1987}	100	4,587
	<i>b</i>	0.125	0.0912
	<i>f</i>	0.5	11.314
<i>Index value</i>			0.072653
32	N_{1987}	5,050	4,586
	<i>b</i>	0.125	0.0912
	<i>f</i>	0.5	11.319
<i>Index value</i>			0.072653
33	N_{1987}	10,000	4,585
	<i>b</i>	0.125	0.0912
	<i>f</i>	0.5	11.321
<i>Index value</i>			0.072653
34	N_{1987}	100	4,588
	<i>b</i>	0.25	0.0912
	<i>f</i>	0.5	11.315
<i>Index value</i>			0.072653
35	N_{1987}	5,050	4,587
	<i>b</i>	0.25	0.0912
	<i>f</i>	0.5	11.315
<i>Index value</i>			0.072653
36	N_{1987}	10,000	4,585
	<i>b</i>	0.25	0.0912
	<i>f</i>	0.5	11.321
<i>Index value</i>			0.072653
37	N_{1987}	100	4,588
	<i>b</i>	0	0.0912
	<i>f</i>	10.25	11.315
<i>Index value</i>			0.072653
38	N_{1987}	5,050	4,586
	<i>b</i>	0	0.0912

Scenario	Unknown	Start	Predicted
	<i>f</i>	10.25	11.315
<i>Index value</i>			0.072653
39	N_{1987}	10,000	4,585
	<i>b</i>	0	0.0912
	<i>f</i>	10.25	11.320
<i>Index value</i>			0.072653
40	N_{1987}	100	4,586
	<i>b</i>	0.125	0.0912
	<i>f</i>	10.25	11.319
<i>Index value</i>			0.072653
41	N_{1987}	5,050	4,586
	<i>b</i>	0.125	0.0912
	<i>f</i>	10.25	11.319
<i>Index value</i>			0.072653
42	N_{1987}	10,000	4,587
	<i>b</i>	0.125	0.0912
	<i>f</i>	10.25	11.316
<i>Index value</i>			0.072653
43	N_{1987}	100	4,589
	<i>b</i>	0.25	0.0911
	<i>f</i>	10.25	11.304
<i>Index value</i>			0.072652
44	N_{1987}	5,050	4,586
	<i>b</i>	0.25	0.0912
	<i>f</i>	10.25	11.319
<i>Index value</i>			0.072653
45	N_{1987}	10,000	4,585
	<i>b</i>	0.25	0.0912
	<i>f</i>	10.25	11.321
<i>Index value</i>			0.072653
46	N_{1987}	100	4,586
	<i>b</i>	0	0.0912
	<i>f</i>	20	11.319
<i>Index value</i>			0.072653
47	N_{1987}	5,050	4,587
	<i>b</i>	0	0.0912
	<i>f</i>	20	11.311
<i>Index value</i>			0.072653
48	N_{1987}	10,000	4,587
	<i>b</i>	0	0.0912
	<i>f</i>	20	11.314
<i>Index value</i>			0.072653
49	N_{1987}	100	4,583
	<i>b</i>	0.125	0.0913
	<i>f</i>	20	11.329
<i>Index value</i>			0.072653
50	N_{1987}	5,050	4,587
	<i>b</i>	0.125	0.0912
	<i>f</i>	20	11.315
<i>Index value</i>			0.072653
51	N_{1987}	10,000	4,585
	<i>b</i>	0.125	0.0912
	<i>f</i>	20	11.321

Scenario	Unknown	Start	Predicted
<i>Index value</i>			0.072653
52	N_{1987}	100	4,585
	b	0.25	0.0912
	f	20	11.320
<i>Index value</i>			0.072653
53	N_{1987}	5,050	4,586
	b	0.25	0.0912
	f	20	11.318
<i>Index value</i>			0.072653
54	N_{1987}	10,000	4,585
	b	0.25	0.0912
	f	20	11.321
<i>Index value</i>			0.072653
55	N_{1987}	100	4,581
	b	0	0.0913
	f	0.5	11.337
<i>Index value</i>			0.072652
56	N_{1987}	5,050	4,632
	b	0	0.0899
	f	0.5	11.074
<i>Index value</i>			0.072407
57	N_{1987}	10,000	4,591
	b	0	0.0911
	f	0.5	11.292
<i>Index value</i>			0.072650
58	N_{1987}	100	4,584
	b	0.125	0.0912
	f	0.5	11.323
<i>Index value</i>			0.072653
59	N_{1987}	5,050	4,585
	b	0.125	0.0912
	f	0.5	11.321
<i>Index value</i>			0.072653
60	N_{1987}	10,000	4,583
	b	0.125	0.0913
	f	0.5	11.326
<i>Index value</i>			0.072653
61	N_{1987}	100	4,588
	b	0.25	0.0912
	f	0.5	11.310
<i>Index value</i>			0.072653
62	N_{1987}	5,050	4,586
	b	0.25	0.0912
	f	0.5	11.318
<i>Index value</i>			0.072653
63	N_{1987}	10,000	4,585
	b	0.25	0.0912
	f	0.5	11.320
<i>Index value</i>			0.072653
64	N_{1987}	100	4,588
	b	0	0.0912
	f	10.25	11.309
<i>Index value</i>			0.072653

Scenario	Unknown	Start	Predicted
65	N_{1987}	5,050	4,590
	b	0	0.0911
	f	10.25	11.301
<i>Index value</i>			0.072652
66	N_{1987}	10,000	4,587
	b	0	0.0912
	f	10.25	11.316
<i>Index value</i>			0.072653
67	N_{1987}	100	4,588
	b	0.125	0.0912
	f	10.25	11.311
<i>Index value</i>			0.072653
68	N_{1987}	5,050	4,586
	b	0.125	0.0912
	f	10.25	11.317
<i>Index value</i>			0.072653
69	N_{1987}	10,000	4,586
	b	0.125	0.0912
	f	10.25	11.314
<i>Index value</i>			0.072653
70	N_{1987}	100	4,585
	b	0.25	0.0912
	f	10.25	11.320
<i>Index value</i>			0.072653
71	N_{1987}	5,050	4,588
	b	0.25	0.0911
	f	10.25	11.306
<i>Index value</i>			0.072653
72	N_{1987}	10,000	4,585
	b	0.25	0.0912
	f	10.25	11.321
<i>Index value</i>			0.072653
73	N_{1987}	100	4,586
	b	0	0.0912
	f	20	11.318
<i>Index value</i>			0.072653
74	N_{1987}	5,050	4,586
	b	0	0.0912
	f	20	11.318
<i>Index value</i>			0.072653
75	N_{1987}	10,000	4,589
	b	0	0.0911
	f	20	11.308
<i>Index value</i>			0.072653
76	N_{1987}	100	4,585
	b	0.125	0.0912
	f	20	11.320
<i>Index value</i>			0.072653
77	N_{1987}	5,050	4,589
	b	0.125	0.0911
	f	20	11.311
<i>Index value</i>			0.072653
78	N_{1987}	10,000	4,586

Scenario	Unknown	Start	Predicted
	b	0.125	0.0912
	f	20	11.317
<i>Index value</i>			0.072653
79	N_{1987}	100	4,598
	b	0	0.0909
	f	0.5	11.266
<i>Index value</i>			0.072641
80	N_{1987}	5,050	4,584
	b	0	0.0912
	f	0.5	11.323
<i>Index value</i>			0.072653
81	N_{1987}	10,000	4,593
	b	0	0.0910
	f	0.5	11.290
<i>Index value</i>			0.072649