Na haniel . Heel igh 1,3 , E an $_{\$}$. G aff 1 , and D. . An No. I $_{\$}$

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2011; 1... 23 3 - 1: ... (1 2002).q 1 ... , ff. , ff. , , ... , , ... , ...

7	2. f.	1	(. 1	ff	. 1 11-
-	. f. 111	1	1, ,			ff
	1989 1 2009 10)().				

	1989		2009 10	
. , 1	Δ c	w_i	Δ $_{c}$	w_{i}
f. 1.1.f. 1 , 1.1.,	33.275	0.00	36.935	0.00
f. 1.1.f. 1 , 1.1.	28.050	0.00	21.300	0.00
f_{i} , f_{i} , f_{i} , f_{i} , f_{i} , f_{i}	21.930	0.00	16.146	0.00
	7.831	0.00	0.18	0.18
	0.	0.99	4.276	0.08
. 1.1.	40.638	0.00	0	0.68
. I	29.124	0.00	9.853	0.00
1.1.	39.028	0.00	6.197	0.03
1	13.331	0.00	13.331	0.00

[.] I fine ff. .

	Δ	w_{i}
f. 1.1.f. 1 , 1.1.,	54.432	0.00
$f_{i} = f_{i} = f_{i$	51.359	0.00
an an an fin In Infin In . an an an fin In In	27.489 4.044	0.12
. 1 .1.	43.574 0 ^l	0.88
. 1.1. . 1.1.	69.415 35.518	0.00 0.00
. 1	54.477	0.00

= 1019.543.

1 . 1 . . 1, . 1, . . ,. f_{i} $0.03, P = 0.03; 2009 \ 10: 0.22 \ 0.03, P < 0.001; \ .4).$

. .

P = 0.09). f (0.46 0.07) f ... (0.46 0.07)

c = 380.606. c = 339.968.

f. 0 (... : ... : 0.15 0.16; 1 : 1.85 0.25; : 0.93 0.44).