Supplementary material

Flowering of $Blandfordia\ grandiflora\ (Christmas\ bells)$ in response to fire frequency and temperature

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Table S1. Flowering response data for fire experiment (1986 to 1998) and vernalisation observations (2015 to 2016)

Note: a single plant flowered during the 1986–87 season in the 6-year burn treatment of the fire experiment, although its identity is unknown because the stakes and tags were vandalised. This flowering event was not included in the analyses, and its exclusion was considered unlikely to alter the results and conclusions

Fire exper	iment: 3-year bur		nt(X = infloating)	rescence in	itiated)												
		Burnt				Burnt				Burnt				Burnt			
Replicate	Plant number	9.1986	1986–87		1988–89	9.1989	1989–90	1990–91	1991–92	9.1992		1993–94	1994–95	10.1995	1995–96	1996–97	1997–98
A	7			X							X						
A	9							X								X	
A	11				X											X	
A	12			X X			X	X									X
A	13			X				X					X				
A	15							X							X		
A	17				X							X					
A	20			X				X				X					dead
A	22			X				X				X					
A	24							X								X	
A	33			X													
A	34			X									X				
A	36							X									
A	37			X				X					X				
A	42						X	X							X		
A	48			X X												X	
В	1			X				X			dead						
В	2						X	X X									
В	3							X									
В	5			X													
В	8				X												
В	10			X				X				X				X	
В	14											X					
В	16			X			X	X				X				X	
В	19			X			X	X				X			X		
В	26			X											X		
В	27			X									dead				
В	32			X				X									

Fire experi	iment: 3-year bui	n treatmer	t(X = infloation X)	orescence in	itiated)												
1	Ž	Burnt	`		,	Burnt				Burnt				Burnt			
Replicate	Plant number	9.1986	1986-87	1987-88	1988-89	9.1989	1989-90	1990-91	1991–92	9.1992	1992-93	1993-94	1994–95	10.1995	1995–96	1996-97	1997–98
В	41				X						X	X				X	
В	43			X	X		X	X			X	X			X		
В	44							X									
В	47			X			X	X			X	X				X	
C	4			X											X		
C	6								X								
C	18														X		
C	21							X								X	
C	23											X					
C	25			X				X								X	
C	28				X												
C	29			X				X				X				X	
C	30											X					
С	31			X				X									
C	35						X	X				X					
C	38			X				X				X					
C	39																
C	40			X								X					
C	45			X			X	X									
C	46			X													X

Fire experir	nent: 6-year burn	treatment (X = inflorescores	cence initiate	d)										
		Burnt							Burnt						
Replicate	Plant number	9.1986	1986–87	1987–88	1988–89	1989–90	1990–91	1991–92	9.1992	1992–93	1993–94	1994–95	1995–96	1996–97	1997–98
A	7														
A	9					X									
A	17														
A	18														
A	20														
A	21			X			X				X				
A	22										X				
A	24														
A	26										X				
A	29														
A	32										dead				

.			(X/ ' CI	• •,• .	1)										
Fire experir	nent: 6-year burn		X = infloresc	cence initiate	ed)				D.,						
Replicate	Plant number	Burnt 9.1986	1986–87	1987_88	1988–89	1989–90	1990–91	1991–92	Burnt 9.1992	1992–93	1993–94	1994–95	1995–96	1996–97	1997–98
A	35	7.1700	1700 01	X	1700 07	1707 70	1,,0 ,1	1//1 /4),1)) <u>L</u>	1//2 /3	X	1// 1//	1//3 /0	1/// //	1///
A	37														
A	44					X									
A	45					X									
A	48			X X		X X X									
В	1			X											
В	2						X						X		
В	4			X							X			X	
В	6					X							X		
В	8			X							X				
В	13										X				
В	15														
В	23			X							X				
В	25					X									
В	28														
В	30					X									
В	34			-											
В	39			X X							**				
В	41			X	37						X				
В	43			37	X						37				
В	46			X							X			W	
C	3 5			X X							X X			X	
C				Λ							Λ				
C	10 11										X				
C C	12										Λ				
C	14														
C	16				X										
C	19			X	Λ		X				X		X		
C	27			71			Λ				A		A		
C	31			X							X				
C	33			41							X				
C	36						X								
C	38										X				
C	40														
Č	42			X							X				
-	=			=							=				

Fire experir	ment: 6-year burn	treatment (X = inflorescores	cence initiate	d)										
		Burnt							Burnt						
Replicate	Plant number	9.1986	1986-87	1987–88	1988–89	1989–90	1990–91	1991–92	9.1992	1992–93	1993–94	1994–95	1995–96	1996–97	1997–98
C	47														

Replicate Plant number Burnt Burnt 1986-87 1987-88 1988-98 1989-99 1991-99 1991-99 1992-99 1993-99 1994-95 10,1995 1995-99 1997-98 A 2 X </th <th>Fire experi</th> <th>iment: 9-year bu</th> <th></th> <th>ent (X = inflo</th> <th>orescence in</th> <th>itiated)</th> <th></th>	Fire experi	iment: 9-year bu		ent (X = inflo	orescence in	itiated)										
A 2			Burnt										Burnt			
A 11	Replicate	Plant number	9.1986	1986–87		1988–89	1989–90	1990–91	1991–92	1992–93	1993–94	1994–95	10.1995	1995–96	1996–97	1997–98
A 14	A				X											
A 16	A				X		X								X	
A 19	A															
A 21	A														X	
A 26 A 28 A 29	A									X						
A 28 A 29 X A A 30 X A A 37 X A A 41 X X X A A 41 X X X A A 45 A 46 A 46 A 47 X X X A A 47 X X A A 47 X X X A A 47 X X X A A 48 B 5 X X X X X X X X X X X X X X X X X X	A				X				X							
A 29	A														X	
A 30	A															
A 37	A															
A 41 X X X A A 42 A 42 A A 45 A A 45 A A 46 A 47 A A 47 A A A 47 A A A 48 A A 48 A A 48 A A 49	A															
A 42 X X X X A 46 X	A															
A 45	A							X								
A 46 A 47 B 1 X X X B 5 X B 6 X X B 7 X X X B 9 X B 9 X X B 10 X X X B 12 X X B 12 X B 15 X X B 12 X X B 12 X X B 12 X X B 13 X X B 15 X X X B 18 X X B 20 X X X B 27 X X X X B 32 X X X X X X	A				X		X								dead	
A 47	A						X									
B 1 X B 5 X B 6 X B 7 X X B 9 X B 10 X X B 12 X B 15 X B 18 X B 20 X B 27 X B 32 X B 39 X	A															
B 5 X B 6 X B 7 X X B 9 X X B 10 X X B 12 X X B 15 X X B 18 X X B 20 X X B 27 X X B 32 X X B 39 X X	A	47			X			X								
B 6 X X X B 7 X X X B 9 X X X B 10 X X X B 12 X X X B 15 X X X B 20 X X X B 27 X X X B 32 X X X B 39 X X X	В	1													X	
B 7 X X B 9 X X B 10 X X B 12 X X B 15 X X B 18 X X B 20 X X B 27 X X B 32 X X B 39 X X	В	5														
B 9 B 10 X X B 12 X X B 15 X X B 18 X X B 20 X X B 27 X X B 32 X X B 39 X X	В				X										X	
B 10 X X B 12 X B 15 X B 18 X B 20 X B 27 X B 32 X B 39	В	•			X		X								X	
B 12 X B 15 X B 18 X B 20 X X B 27 X X B 32 X X B 39 X X	В															
B 15 X B 18 X B 20 X X B 27 X X B 32 X X B 39 X X	В				X	X									X	
B 18 X B 20 X X B 27 X X X B 32 X X X B 39 X X	В						X									
B 20 X X X X X X X B 32 X X X X X X	В				X											
B 27 X X X B 32 X X X X X X X	В					X										
B 32 X X B 39 X X	В														X	
B 39 X X	В				X										X	
	В				X	X										
B 40	В					X				X						
	В	40													X	

Fire experi	ment: 9-year bu	rn treatme	$\operatorname{nt}(X = \operatorname{inflo})$	orescence in	itiated)										
•	•	Burnt										Burnt			
Replicate	Plant number	9.1986	1986-87	1987-88	1988-89	1989-90	1990-91	1991–92	1992–93	1993-94	1994–95	10.1995	1995–96	1996–97	1997–98
В	44														
В	48														
C	3			X											
C	4														
C	8														
C	13														
C	17														
C	22														
C	23														
C	24			X											
C	25													X	
C	31			X											
C	33			X											
C	34														
C	35														
C	36					X									
C	38														
С	43														

Fire experi	iment: unburnt c	ontrol $(X =$	inflorescen	ce initiated))								
Replicate	Plant number	1986-87	1987-88	1988-89	1989–90	1990-91	1991–92	1992–93	1993-94	1994–95	1995–96	1996–97	1997–98
A	2								X				
A	4												
A	11												
A	14												
A	19												
A	21												
A	24												
A	25												
A	26												
A	31												
A	34												
A	39												
A	40												
A	41												

Fire exper	iment: unburnt c	ontrol (X =	inflorescen	ce initiated)									
Replicate	Plant number	1986–87	1987-88	1988–89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
A	43												
A	46												
В	6												
В	7												
В	10												
В	12												
В	17												
В	18												
В	20												
В	23												
В	27												
В	29												
В	30												
В	33												
В	35												
В	36												
В	38												
В	42												
C	1		X										
C	3												
C	5												
C	8												
C C	9												
C	13												
C	15												
C C	16												
C	22												
C	28												
C	32												
C C C C C	37												
C	44												
C	45												
C	47												
C	48												

		S(X = infloresce			. 7	0 1	. 0	0 1	1.5
Quadrat		Quadra	it 4	Quadra		Quadra Plant number		Quadrat	
	2013-10		2013-10		2013-10	1	2013-10	1	2013-10
1 2		1	X	1			X		
3	X	2 3	Λ	2 3		2 3	Λ	2 3	
3 4	Λ	3 4		3 4		3 4		3 4	
5		5		5		5	X	5	
6	X	6		6		6	Λ	6	
7	X	7	X	7		7		7	
8	Λ	8	X	8		8		8	
9		9	Λ	9		9		9	
10		10		10		10		10	
10		11		10		11		11	
12		12		12		12		12	
13		13		13		13		13	
13		14		14		14		14	
15	X	15		15	X	14		15	
16	X	16		16	X			16	
17	Λ	17		17	Λ			17	
18		18		18				18	
19		19		19	X			19	
20		20		20	X			20	
21		21		21	Λ			21	
22		22		22				22	
23		23		23				23	
23		23 24		24				24	
25		25		25				25 25	
26		26 26		26				26	
27		27		27				27	
28		28		28				28	
29		29		26				29	
30		30						30	
31	X	31						31	
32	Λ	32						32	
33		33						33	
34		34						34	
35	X	35						35	

Vernalisation of	observation	s (X = infloresce	ence initiate	d)					
Quadra	ıt 1	Quadra	ıt 4	Quadra	t 7	Quadra	ıt 9	Quadrat	: 15
Plant number	2015-16	Plant number	2015-16	Plant number	2015–16	Plant number	2015-16	Plant number	2015–16
36		36						36	
37		37						37	
38		38						38	
39								39	
40								40	
41								41	
42								42	
								43	