

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 experiment: 3-year burn treatment (X = inflorescence initiated)																
Replicate	Plant number	Burnt			Burnt			Burnt			Burnt			1995–96	1996–97	1997–98
		9.1986	1986–87	1987–88	1988–89	9.1989	1989–90	1990–91	1991–92	9.1992	1992–93	1993–94	1994–95			
A	7			X							X					
A	9							X								X
A	11				X											X
A	12			X			X	X					X			X
A	13			X				X								
A	15							X						X		
A	17				X						X					
A	20			X				X			X					dead
A	22			X				X			X					
A	24							X								
A	33			X												
A	34			X								X				
A	36							X								
A	37			X				X				X				
A	42						X	X						X		
A	48			X							dead				X	
B	1			X				X								
B	2						X	X								
B	3							X								
B	5			X												
B	8				X											
B	10			X				X			X					X
B	14										X					
B	16			X			X	X			X					X
B	19			X			X	X			X			X		
B	26			X										X		
B	27			X								dead		X		
B	32			X				X								

Fire experiment: 3-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt				Burnt				Burnt						
		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
B	41				X						X	X				X
B	43			X	X		X	X			X	X			X	
B	44							X								
B	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				
C	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 experiment: 6-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt				Burnt										
		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	

Fire experiment: 6-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt						Burnt						
		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
A	35			X							X			
A	37													
A	44							X						
A	45							X						
A	48			X				X						
B	1			X										
B	2							X					X	
B	4			X							X			X
B	6							X					X	
B	8			X							X			
B	13										X			
B	15										X			
B	23			X							X			
B	25							X						
B	28													
B	30							X						
B	34													
B	39			X										
B	41			X							X			
B	43					X								
B	46			X							X			
C	3			X							X			
C	5			X							X			
C	10													
C	11										X			
C	12													
C	14													
C	16					X								
C	19			X				X			X		X	
C	27													
C	31			X							X			
C	33										X			
C	36							X						
C	38										X			
C	40													
C	42			X							X			

Fire experiment: 6-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt													
		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														

Fire experiment: 9-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt										10.1995	1995-96	1996-97	1997-98	
		9.1986	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95					
A	2			X												
A	11			X		X									X	
A	14														X	
A	16														X	
A	19								X							
A	21			X				X								
A	26														X	
A	28															
A	29			X												
A	30			X												
A	37			X												
A	41			X				X								
A	42			X				X							dead	
A	45							X								
A	46															
A	47								X							
B	1			X											X	
B	5			X												
B	6			X											X	
B	7			X				X							X	
B	9															
B	10			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							
B	40														X	

Fire experiment: 9-year burn treatment (X = inflorescence initiated)

Replicate	Plant number	Burnt													
		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
B	44														
B	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														
C	43														

Fire experiment: unburnt control (X = inflorescence 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 experiment: unburnt control (X = inflorescence 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												
B	6												
B	7												
B	10												
B	12												
B	17												
B	18												
B	20												
B	23												
B	27												
B	29												
B	30												
B	33												
B	35												
B	36												
B	38												
B	42												
C	1		X										
C	3												
C	5												
C	8												
C	9												
C	13												
C	15												
C	16												
C	22												
C	28												
C	32												
C	37												
C	44												
C	45												
C	47												
C	48												

Vernalisation observations (X = inflorescence initiated)									
Quadrat 1		Quadrat 4		Quadrat 7		Quadrat 9		Quadrat 15	
Plant number	2015-16	Plant number	2015-16	Plant number	2015-16	Plant number	2015-16	Plant number	2015-16
1		1		1		1		1	
2		2	X	2		2	X	2	
3	X	3		3		3		3	
4		4		4		4		4	
5		5		5		5	X	5	
6	X	6		6		6		6	
7	X	7	X	7		7		7	
8		8	X	8		8		8	
9		9		9		9		9	
10		10		10		10		10	
11		11		11		11		11	
12		12		12		12		12	
13		13		13		13		13	
14		14		14		14		14	
15	X	15		15	X			15	
16	X	16		16	X			16	
17		17		17				17	
18		18		18				18	
19		19		19	X			19	
20		20		20	X			20	
21		21		21				21	
22		22		22				22	
23		23		23				23	
24		24		24				24	
25		25		25				25	
26		26		26				26	
27		27		27				27	
28		28		28				28	
29		29						29	
30		30						30	
31	X	31						31	
32		32						32	
33		33						33	
34		34						34	
35	X	35						35	

Vernalisation observations (X = inflorescence initiated)

Quadrat 1		Quadrat 4		Quadrat 7		Quadrat 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
