

Analysis Of F2 *sophenensis* x *danfordiae* Progeny

Organized By Cross

<u>Seeds</u>	<u>Cross</u>	<u>Pod Parent</u>	<u>Pollen Parent</u>	<u>2nd Pollen Parent</u>	<u>Blue</u>	<u>White</u>	<u>Yellow- Blue</u>	<u>Spotted Light Green</u>	<u>danfordiae- like</u>
28	94-AT	89-Q-4	89-AC-4			1	1		
18	94-DS	89-F-1	self	89-Q-2	1	1			
	94-EA?					1			
10	94-GU	89-Q-5	89-Q-3		1				
6	94-HW	89-Q-1	89-AC-4			1	1		
26	95-BF	89-Q-4	danfordiae Atila			2	1		
25	95-BJ	89-F-4	danfordiae Atila						1
18	95-CS	89-AC-5	89-Q-7		1	1			
27	95-F-	89-AC-7	89-F-1		1		1		
	95-unknown	?	(danfordiae Atila)					1	
36	96-BN	89-AC-6	danfordiae Atila			1	1	1	
32	96-CD	89-Q-9	87-DP-2 [likely danfordiae]			1			
31	96-CM	Turkish danfordiae	89-AC-9						1
22	96-DZ	91-FC-3	Danfordiae hybrid			1			1
18	96-FW	91-FC-1	91-FC-2			1			
15	96-SD	89-F-2	danfordiae Atila						1
16	96-TN	89-AC-12	89-AC-17		1				
36	97-AG	91-FC-1	Turkish danfordiae		1	1	3		1
31	97-AW	89-Q-3	91-FC-2		2				1
27	97-BO	Turkish danfordiae	91-FC-2			1	1		1
27	97-BP	89-Q-3	Turkish danfordiae				1		
25	97-CA	Turkish danfordiae	91-FC-1				1	1	
10	97-CC	89-F-2	91-FC-2		1	1	1		
24	97-CQ	89-F-4	89-F-3				1		
20	97-DP	91-FC-1	danfordiae Atila					1	
19	97-DZ	91-FC-3	Turkish danfordiae			1		1	2
7	97-EK	89-Q-3	Turkish danfordiae				1		
17	97-EP	89-AC-18	89-A-1			1			
13	97-TH	91-FC-1	91-FC-2			1			
	97-VS	88-AX-3	danfordiae Atila	89-Q-3			1		
40	98-NP	91-FC-7	88-AX-3		1	1			
Total: 57					10	18	15	5	9

Note: 97-VS & 98-NP involve Çat species (i.e. 88-AX)

Organized By Type

<u>Seeds</u>	<u>Cross</u>	<u>Pod Parent</u>	<u>Pollen Parent</u>	<u>2nd Pollen Parent</u>	<u>Blue</u>	<u>White</u>	<u>Yellow- Blue</u>	<u>Spotted Light Green</u>	<u>danfordiae- like</u>
F2 sxd = F1 x F1									
28	94-AT	89-Q-4	89-AC-4			1	1		
18	94-DS	89-F-1	self	89-Q-2	1	1			
	94-EA?					1			
10	94-GU	89-Q-5	89-Q-3		1				
6	94-HW	89-Q-1	89-AC-4			1	1		
18	95-CS	89-AC-5	89-Q-7		1	1			
27	95-F-	89-AC-7	89-F-1		1		1		
18	96-FW	91-FC-1	91-FC-2			1			
16	96-TN	89-AC-12	89-AC-17		1				
31	97-AW	89-Q-3	91-FC-2		2				1
10	97-CC	89-F-2	91-FC-2		1	1	1		
24	97-CQ	89-F-4	89-F-3				1		
13	97-TH	91-FC-1	91-FC-2			1			
17	97-EP	89-AC-18	89-A-1			1			
					8	9	5	0	1
Backcross to danfordiae									
26	95-BF	89-Q-4	danfordiae Atilla			2	1		
25	95-BJ	89-F-4	danfordiae Atilla						1
	95-unknown	?	(danfordiae Atilla)					1	
36	96-BN	89-AC-6	danfordiae Atilla			1	1	1	
32	96-CD	89-Q-9	87-DP-2 [likely danfordiae]			1			
31	96-CM	Turkish danfordiae	89-AC-9						1
22	96-DZ	91-FC-3	Danfordiae hybrid			1			1
15	96-SD	89-F-2	danfordiae Atilla						1
36	97-AG	91-FC-1	Turkish danfordiae		1	1	3		1
27	97-BO	Turkish danfordiae	91-FC-2			1	1		1
27	97-BP	89-Q-3	Turkish danfordiae				1		
25	97-CA	Turkish danfordiae	91-FC-1				1	1	
20	97-DP	91-FC-1	danfordiae Atilla					1	
19	97-DZ	91-FC-3	Turkish danfordiae			1		1	2
7	97-EK	89-Q-3	Turkish danfordiae				1		
					1	8	9	5	8
40	97-VS	88-AX-3	danfordiae Atilla	89-Q-3			1		
	98-NP	91-FC-7	88-AX-3		1	1			

	Yellow	Blue
F2 sxd	6 / 23 = 26%	13 / 23 = 56%
Backcross to <i>danfordiae</i>	17 / 31 = 55%	10 / 34 = 29%

Conclusion

Blue is dominant based on 2 genes
 Yellow is recessive