

Overall Reticulata Hybridizing Results

Year	Tried	Successful	Seeds	#/Pod
1983	78	19 (24%)	gave 106	5.6
1984	249	97 (39%)	gave 1751	18.1
1985	290	130 (45%)	gave 1452	11.2
1986	170	75 (44%)	gave 564	7.5
1987	271	96 (35%)	gave 1162	12.1
1988	295	63 (21%)	gave 1280	20.3
1989	175	64 (37%)	gave 997	15.6
1990	245	93 (38%)	gave 945	10.2
1991	281	123 (44%)	gave 1965	16.0
1992	495	265 (54%)	gave 3952	14.9
1993	480	278 (58%)	gave 3978	14.3
1994	639	371 (58%)	gave 5943	16.0
1995	538	297 (55%)	gave 3528	11.9
1996	823	486 (59%)	gave 6242	12.8
1997	895	400 (45%)	gave 5116	12.8
1998	845	564 (67%)	gave 9062	16.1
1999	1120	721 (64%)	gave 9864	13.7
2000	957	517 (54%)	gave 6336	12.3
2001	1099	575 (52%)	gave 8860	15.4
2002	1325	518 (39%)	gave 7476	14.4
2003	1199	496 (41%)	gave 6428	13.0
2004	468	167 (36%)	gave 3143	18.8
2005	465	196 (42%)	gave 3455	17.6
2006	496	198 (39%)	gave 3601	18.2
2007	477	94 (20%)	gave 1058	11.3
2008	388	158 (41%)	gave 2489	15.7
2009	1401	434 (11%)	gave 5746	13.2
2010	614	113 (19%)	gave 1737	15.4
2011	636	329 (52%)	gave 5684	17.3
2012	692	221 (32%)	gave 3360	15.3
2013	808	341 (42%)	gave 5467	16.0
2014	964	453 (47%)	gave 6034	13.3
2015	688	169 (25%)	gave 2086	12.3
2016	508	199 (39%)	gave 3287	16.5
2017	724	308 (43%)	gave 4966	16.1
2018	631	137 (22%)	gave 1645	12.0
Total	21,910	9,334 (43%)	gave 136,472	

Bee Seed		
Pods	Seeds	#/Pod
241	gave 3022	12.5
210	gave 2586	12.3
419	gave 5642	13.5
473	gave 6647	14.1
	(none!)	
	(none!)	
940	gave 11381	12.1
829	gave 10651	12.8
552	gave 7106	12.8
107	gave 1543	14.4
141	gave 2172	15.4
25	gave 68	8.5
20	gave 270	13.5
16	gave 165	11.8
221	gave 3006	13.8
40	gave 355	11.4
113	gave 1185	11.0
51	gave 423	8.3
4	gave 34	8.5
28	gave 325	11.6
7	gave 85	12.1
4474	gave 58,206	

Juno Hybridizing Results

Year	Tried	Successful	Seeds	#/Pod
1983	11	7 (64%)	gave 139	19.9
1984	36	15 (42%)	gave 365	24.3
1985		none - coll. in Turkey		
1986		none - coll. in Turkey		
1987	132	16 (12%)	gave 118	7.4
1988	59	19 (33%)	gave 389	20.5
1989	182	38 (21%)	gave 655	17.2
1990	385	101 (26%)	gave 1462	14.5
1991	846	320 (38%)	gave 4629	14.5
1992	767	309 (40%)	gave 4881	15.8
1993	507	225 (44%)	gave 2871+	12.8
1994	622	361 (58%)	gave 6690+	18.5
1995	648	414 (64%)	gave 7900+	19.1
1996	574	306 (53%)	gave 5013	16.3
1997	519	293 (56%)	gave 6596	12.7
1998	417	171 (41%)	gave 3151	18.4
1999	355	177 (50%)	gave 3085	17.5
2000	234	71 (30%)	gave 1120	15.8
2001	278	116 (42%)	gave 1939	16.4
2002	286	79 (28%)	gave 1460	18.5
Not analysed after 2002				

Note: starting in 2014, bee seed to be sold is not included in 'Bee Seed'.

Of the 1185 bee seeds in 2014, 532 were from F1 "Just Blues", and the majority of the remainder were from higher level crosses involving *Iris danfordiae*.

In 2014 over 7,000 seeds were planted (6034 + 1185)

The hybridizing statistics on the following pages have not been updated because they don't have the same significance that they once did.

Note: no double counting has been done in the table below

Cat x danfordiae: 88-AX-1/2/3

Year	x self			As Pod Parent			Using Other Pollen			On s x d Pods			As Pollen Parent			Onto Other Pods		
	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1995	-	-	-	1	0	-	-	-	-	-	-	-	3	3[100%]	gave 26	6	2[33%]	gave 36
1997	-	-	-	1	1	gave 3	-	-	-	3	1[33%]	gave 24	1	0	-	3	2[67%]	gave 23
1998	3	3[100%]	gave 24	1	0	-	-	-	-	14	8[57%]	gave 188	5	5[100%]	gave 150	3	2[67%]	gave 26
1999	2	2[100%]	gave 11	2	2[100%]	gave 13	1	1[100%]	gave 18	35	25[71%]	gave 290	1	0	-	12	7[58%]	gave 62
2000	-	-	-	2	2[100%]	gave 26	-	-	-	21	8[38%]	gave 65	1	1[100%]	gave 8	5	1[20%]	gave 25
2001	-	-	-	3	3[100%]	gave 69	-	-	-	37	16[43%]	gave 285	1	1[100%]	gave 16	-	-	-
2003	-	-	-	3	2[66%]	gave 16	-	-	-	42	12[29%]	gave 134	-	-	-	-	-	-
2004	-	-	-	2	0	-	-	-	-	2	1[50%]	gave 20	-	-	-	-	-	-
2005	-	-	-	1	0	-	-	-	-	6	4[67%]	gave 85	-	-	-	-	-	-
2006	-	-	-	1	1[100%]	gave 13	-	-	-	-	-	-	-	-	-	-	-	-

Iris winogradowii

Year	As Pod Parent			As Pollen Parent		
	Tried	Successful	Seeds	Tried	Successful	Seeds
1990	2	0	-	14	3[21%]	gave 23
1992	5	1[20%]	gave 12 ¹	36	20[56%]	gave 308
1997	3	0	-	38	4[11%]	gave 14 ²
1998	11	3[27%]	gave 4	98	54[55%]	gave 646
1999	2	0	-	6	1[17%]	gave 7
2002	3	0	-	0	-	-
2003	1	0	-	20	9[45%]	gave 133

Armenian Caucasus Alba

Year	As Pod Parent			As Pollen Parent		
	Tried	Successful	Seeds	Tried	Successful	Seeds
1994	1	1	gave 15	16	8[50%]	gave 61
1995	1	0	-	10	6[60%]	gave 47
1998	1	1	gave 16	13	6[46%]	gave 94
1999	1	1	gave 15	28	19[68%]	gave 452
2003	1	1	gave 5	17	12[71%]	gave 204
2004	1	1	gave 8	10	4[40%]	gave 62

Iran Ameona

Year	As Pod Parent			As Pollen Parent		
	Tried	Successful	Seeds	Tried	Successful	Seeds
2000	2	0	-	26	10[38%]	gave 98
2001	1	0	-	9	2[22%]	gave 18

Diploid danfordiae

Year	As Pod Parent			As Pollen Parent		
	Tried	Successful	Seeds	Tried	Successful	Seeds
1986	1	0	-	9	2[22%]	gave 8
1987	1	0	-	18	4[22%]	gave 89
1988	4	1[25%]	gave 19	57	21[37%]	gave 341
1989	4	2[50%]	gave 17	34	14[41%]	gave 272
1990	1	1	gave 9	10	6[60%]	gave 101
1991	23	19[83%]	gave 318	63	30[48%]	gave 474
1992	49	33[67%]	gave 459	75	38[51%]	gave 672
1993	22	2 [9%]	gave 5	31	15[48%]	gave 270
1994	32	16[50%]	gave 218	34	15[44%]	gave 307
1995	16	12[75%]	gave 117	30	21[70%]	gave 340
1996	23	7[30%]	gave 89	45	27[60%]	gave 468
1997	10	7[70%]	gave 96	43	23[53%]	gave 485
1998	25	14[56%]	gave 352	109	75[69%]	gave 1310
1999	8	5[63%]	gave 72	38	20[53%]	gave 322
2000	18	15[83%]	gave 201	35	16[46%]	gave 211
2001	11	8[73%]	gave 147	38	22[59%]	gave 366
2002	11	5[45%]	gave 73	36	7[19%]	gave 62
2003	7	4[57%]	gave 64	-	-	-
2004	7	1[14%]	gave 10	-	-	-
2005	-	-	-	-	-	-

¹ Seeds were soft and may not have been good.

² Cross onto *histrioides* gave 11 of these, plus one each were from two crosses onto diploid *danfordiae*.

Note: no double counting has been done in the sxd F1, F2, F3, and miscellaneous cross tables on the next 3 pages. All of the tables taken together apply to each year's data as a whole.

Iris x mcmurtriei (sophenensis x danfordiae) – F₁ Crosses

Year	Blooms ⁵	Used s x d Pollen			s x d Pod Parents ³			F ₂ = F ₁ x F ₁ ⁴			<i>danfordiae</i> x (s x d)			(s x d) x <i>danfordiae</i>		
		Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1994	16	3	2[66%]	gave 27	2	1[50%]	gave 1	14	10[71%]	gave 130	-	-	-	-	-	-
1995	36	66	31[47%]	gave 266	13	7[54%]	gave 53	19	17[89%]	gave 232	4	2[50%]	gave 14	2	2[100]	gave 55
1996	88	62	38[61%]	gave 557	66	35[53%]	gave 222	16	6[38%]	gave 76	4	1[25%]	gave 31	9	4[44%]	gave 77
1997	126	37	21[57%]	gave 247	45	8[18%]	gave 58	71	33[46%]	gave 689	4	2[50%]	gave 52	19	12[63%]	gave 301
1998	262	27	13[48%]	gave 173	49	32[65%]	gave 282	63	57[90%]	gave 965	4	2[50%]	gave 31	31	24[77%]	gave 495
1999	340	46	28[61%]	gave 492	78	34[44%]	gave 199	182	129[71%]	gave 1465	1	1[100]	gave 11	13	9[69%]	gave 121
2000	306	161	67[42%]	gave 715	43	10[23%]	gave 52	98	33[34%]	gave 256	8	6[75%]	gave 52	31	14[45%]	gave 177
2001	>1000	51	29[57%]	gave 299	221	91[41%]	gave 1232	242	144[60%]	gave 2145	1	0	-	37	22[59%]	gave 366
2002	>1000	7	3[43%]	gave 14	16	7[44%]	gave 130	89	30[34%]	gave 444	-	-	-	36	7[19%]	gave 62
2003	>1000	4	0	-	4	0	-	17	13[76%]	gave 110	-	-	-	-	-	-
2004	>1000	-	-	-	7	3[43%]	gave 49	27	26[96%]	gave 296	-	-	-	-	-	-
2005	>1000	-	-	-	7	1[14%]	gave 3	7	4[57%]	gave 12	-	-	-	-	-	-
2006	>1000	-	-	-	13	1[8%]	gave 9	4	3[75%]	gave 22	-	-	-	-	-	-
2007	>100	-	-	-	8	2[25%]	gave 15	-	-	-	-	-	-	-	-	-

Iris x mcmurtriei (sophenensis x danfordiae) – F₁ Crosses cont.

Year	F ₁ x F ₂			F ₁ x Compound ⁶			F ₁ x Çat			F ₁ x <i>sophenensis</i>		
	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1997	-	-	-	3	1[33%]	gave 24	-	-	-	-	-	-
1998	-	-	-	15	9[60%]	gave 188	-	-	-	-	-	-
1999	26	20[77%]	gave 332	35	25[71%]	gave 290	1	1[100]	gave 9	-	-	-
2000	82	40[49%]	gave 510	22	9[41%]	gave 65	-	-	-	-	-	-
2001	229	110[48%]	gave 1818	38	16[42%]	gave 283	32	15[47%]	gave 203	-	-	-
2002	601	169[28%]	gave 2173	57	20[35%]	gave 268	10	6[60%]	gave 82	12	5[42%]	gave 70
2003	324	65[20%]	gave 624	195	57[29%]	gave 589	24	2[8%]	gave 18	5	1[20%]	gave 16
2004	15	6[40%]	gave 101	74	17[23%]	gave 226	-	-	-	-	-	-
2005	107	20[20%]	gave 134	44	15[34%]	gave 180	-	-	-	-	-	-
2006	110	28[25%]	gave 362	30	8[27%]	gave 136	-	-	-	-	-	-
2007	111	23[21%]	gave 220	23	5[22%]	gave 42	-	-	-	-	-	-

³ *Sophenensis x danfordiae* pod parent with pollen from other Retics.

⁴ *Sophenensis x danfordiae* clones intercrossed (should bring out a wider range of expressions in the F₂ generation).

⁵ Not counting those of bulbs given out for testing: ?# 1997; 20 in 1998

⁶ Compound = multi generation within *danfordiae*, *sophenensis*, and Çat

Iris x mcmurtriei (sophenensis x danfordiae) – F₂ Crosses

Year	Blooms ⁸	Used F ₂ Pollen			F ₂ Pod Parents ⁷			F ₃ = F ₂ x F ₂			<i>danfordiae</i> x F ₂			F ₂ x <i>danfordiae</i>		
		Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1999	2	1	1[100]	gave 8	-	-	-	2	0	-	4	3[67%]	gave 59	-	-	-
2000	8	8	3[38%]	gave 16	-	-	-	8	6[75%]	gave 98	8	7[87%]	gave 131	-	-	-
2001	27	12	8[67%]	gave 126	-	-	-	22	16[73%]	gave 267	8	6[75%]	gave 116	-	-	-
2002	67	5	0	-	-	-	-	58	20[34%]	gave 275	7	4[57%]	gave 57	-	-	-
2003	148	30	4[13%]	gave 171	3	2[67%]	gave 19	62	30[48%]	gave 383	2	2[100]	gave 38	-	-	-
2004	296	14	4[29%]	gave 32	-	-	-	84	35[42%]	gave 769	-	-	-	-	-	-
2005	262	16	6[38%]	gave 119	9	5[56%]	gave 90	134	85[63%]	gave 1732	-	-	-	-	-	-
2006	241	29	9[31%]	gave 169	8	2[25%]	gave 23	158	74[47%]	gave 1371	-	-	-	-	-	-
2007	269	18	1[6%]	gave 15	11	2[18%]	gave 24	139	26[19%]	gave 307	-	-	-	-	-	-

Iris x mcmurtriei (sophenensis x danfordiae) – F₂ Crosses cont.

Year	F ₂ x F ₁			Compound x F ₂			F ₂ x Compound			Çat x F ₂			sophenensis x F ₂		
	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	-	-	-	2	2[100]	gave 26	-	-	-	-	-	-	-	-	-
2001	1	0	-	3	3[100]	gave 69	-	-	-	2	1[50%]	gave 42	-	-	-
2002	-	-	-	1	0	-	10	1[13%]	gave 15	4	1[25%]	gave 17	3	1[33%]	gave 5
2003	1	1[100]	gave 4	14	10[71%]	gave 237	51	27[53%]	gave 353	1	1[100]	gave 5	8	0	-
2004	8	6[75%]	gave 58	18	5[28%]	gave 135	107	39[36%]	gave 747	-	-	-	-	-	-
2005	3	3[100]	gave 14	22	9[41%]	gave 189	77	40[52%]	gave 847	-	-	-	2	1[50%]	- 27
2006	11	10[91%]	gave 153	16	12[75%]	gave 270	29	16[55%]	gave 315	1	1[100]	gave 13	1	0	-
2007	4	3[75%]	gave 65	20	8[40%]	gave 115	70	13[19%]	gave 204	-	-	-	1	0	-

Iris x mcmurtriei (sophenensis x danfordiae) – Miscellaneous Crosses

Year	<i>danfordiae</i> x Compound			Compound x Compound			Çat x Compound			sophenensis x Compound			Çat x <i>sophenensis</i>		
	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
2002	4	1[25%]	gave 16	3	1[33%]	gave 19	-	-	-	-	-	-	2	0	-
2003	5	2[40%]	gave 26	9	8[89%]	gave 88	-	-	-	9	5[56%]	gave 98	-	-	-
2004	7	1[14%]	gave 10	36	19[53%]	gave 459	3	2[67%]	gave 18	5	1[20%]	gave 18	-	-	-
2005	-	-	-	17	10[59%]	gave 127	-	-	-	-	-	-	-	-	-
2006	-	-	-	4	1[25%]	gave 44	-	-	-	1	0	-	-	-	-
2007	1	0	-	4	2[50%]	gave 15	-	-	-	1	0	-	-	-	-

⁷ *Sophenensis* x *danfordiae* F₂ pod parent with pollen from other Retics.

⁸ F₂ and Compound blooms

Iris x mcmurtriei (sophenensis x danfordiae) – F₃ Crosses

Year	Blooms	Used F ₃ Pollen			F ₃ Pod Parents ⁹			F ₄ = F ₃ x F ₃			F ₃ x F ₂			F ₂ x F ₃		
		Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds
2006	4	1	0	-	-	-	-	-	-	-	3	1[33%]	gave 10	10	5[50%]	gave 46
2007	10	-	-	-	-	-	-	-	-	-	3	0	-	14	1 [7%]	gave 10

Iris x mcmurtriei (sophenensis x danfordiae) – F₃ Crosses cont.

Year	F ₃ x F ₁			F ₁ x F ₃			F ₃ x Compound			Compound x F ₃			Tried	Successful	Seeds
	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds	Tried	Successful	Seeds			
2006	1	1[100]	gave 7	4	1[25%]	gave 20	-	-	-	1	1[100]	gave 6	-	-	-
2007	-	-	-	4	1[25%]	gave 8	1	0	-	4	2[50%]	gave 31	-	-	-

⁹ *Sophenensis x danfordiae* F2 pod parent with pollen from other Retics.