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	383	158 (41%)	gave	2489	15.7
2009					

| Total | 14,339 | 6630 (46%) | gave | 96,468 | |

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

| 3912 | gave | 50,750 | |

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

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

Çat x *danfordiae*: 88-AX-1/2/3

		As Pod Parent									As Pollen Parent				
	x self			With s x d or *danf.* Pollen			Using Other Pollen			On s x d Pods			On *danfordiae* Pods			Onto Other Pods
Year	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	-		-	-		-

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[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]			$F_2 = F_1 \times F_1$[4]			*danfordiae* x (s x d)			(s x d) x *danfordiae*		
		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	F₁ x F₂			F₁ x Compound[6]			F₁ x Çat			F₁ x sophenensis		
	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	-	-		-	-	

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[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*) – F$_2$ Crosses

Year	Blooms[8]	Used F$_2$ Pollen Tried	Successful	Seeds	F$_2$ Pod Parents[7] Tried	Successful	Seeds	F$_3$ = F$_2$ x F$_2$ Tried	Successful	Seeds	*danfordiae* x F$_2$ Tried	Successful	Seeds	F$_2$ x *danfordiae* 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*) – F$_2$ Crosses cont.

Year	F$_2$ x F$_1$ Tried	Successful	Seeds	Compound x F$_2$ Tried	Successful	Seeds	F$_2$ x Compound Tried	Successful	Seeds	Çat x F$_2$ Tried	Successful	Seeds	*sophenensis* x F$_2$ 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	*danfordiae* x Compound Tried	Successful	Seeds	Compound x Compound Tried	Successful	Seeds	Çat x Compound Tried	Successful	Seeds	*sophenensis* x Compound Tried	Successful	Seeds	Çat x *sophenensis* 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	-	-		-

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[7] *Sophenensis* x *danfordiae* F$_2$ pod parent with pollen from other Retics.
[8] F$_2$ and Compound blooms

Iris x *mcmurtriei* (*sophenensis* x *danfordiae*) – F₃ Crosses

Year	Blooms	Used F₃ Pollen			F₃ Pod Parents[9]			F₄ = F₃ x F₃			F₃ x F₂			F₂ x F₃		
		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	F₃ x F₁			F₁ x F₃			F₃ x Compound			Compound x F₃			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.