

TABLE II—ONTARIO CROSSED WITH SEEDLINGS

X Ontario*	No. Seedlings	No. Fruited	Stamens		Color		Season			Quality			No. Propagated	Per Cent Propagated					
			U.	R.	Bl.	R.	Y.	Ea.	M.	L.	VL.	VG.			G.	F.	P.		
																		37 ^b	10 ^b
7408 ^b	50	49	9	10 ^b	—	22 ^b	27	2	81	—	—	—	—	—	—	—	—	—	—
7579 ^b	25	18	4	10 ^b	—	7 ^b	11	2	15	—	—	—	—	—	—	—	—	—	—
8042 ^b	7	7	3	3	—	7 ^b	—	—	2	—	—	—	—	—	—	—	—	—	—
8536 ^b	50	46	46 ^b	—	—	22 ^b	24	5	35	—	—	—	—	—	—	—	—	—	—
8537 ^b	31	29	29 ^b	—	—	16 ^b	13	10	19 ^b	—	—	—	—	—	—	—	—	—	—
8764 ^b	70	59	33 ^b	16	—	31 ^b	25	19	30	—	—	—	—	—	—	—	—	—	—
9540 ^b	31	28	15 ^b	6	23 ^b	5	—	9	15	—	—	—	—	—	—	—	—	—	—
10085 ^b	9	9	5 ^b	4	—	2	—	3 ^b	2 ^b	—	—	—	—	—	—	—	—	—	—
10108 ^b	26	26	18 ^b	8	—	16 ^b	11	1	11	—	—	—	—	—	—	—	—	—	—
10144 ^b	7	6	5 ^b	1	—	5 ^b	—	—	4	—	—	—	—	—	—	—	—	—	—
10346 ^b	29	25	18 ^b	4	—	—	—	—	4	—	—	—	—	—	—	—	—	—	—
10438 ^b	22	19	10	10 ^b	—	—	—	—	12	—	—	—	—	—	—	—	—	—	—
10608 ^b	31	29	16	12 ^b	—	4 ^b	—	—	20	—	—	—	—	—	—	—	—	—	—
10621 ^b	20	20	19	13	—	5	—	—	8	—	—	—	—	—	—	—	—	—	—
11347 ^b	45	4	3 ^b	1	—	2	—	—	13 ^b	—	—	—	—	—	—	—	—	—	—

*One named Eden.
 7408 (Ross X Mills); 7870 (Delago X Diamond); 8042 (Mills X Iona); 8536 (Goff X Iona); 8537 (Goff X Iona); 8764 (Kensington X Goethe); 9549 (Secretary X Campbell); 10085 (Triumph X Mills); 10108 (Triumph X Mills); 10144 (Triumph X Mills); 10346 (Chasselas Golden X Collier); 10438 (Bakator X Brocton); 10605 (Frankenthal precece X Diamond); 10606 (Frankenthal precece X Diamond); and 11347 (Brighton X 10115 (Triumph X Mills)).

TABLE III—AT LEAST ONE PARENT AN ONTARIO CROSS

Parents	No. Seedlings	No. Fruited	Stamens		Color		Season			Quality			No. Propagated	Per Cent Propagated					
			U.	R.	Bl.	R.	Y.	Ea.	M.	L.	VL.	VG.			G.	F.	P.		
																		4 ^{ab}	35 ^b
Diamond ^b	5	5	1	1	—	3	2 ^b	—	—	—	—	—	—	—	—	—	—	—	—
Golden Muscat ^b	53	43	10 ^b	3 ^b	7	13 ^b	21 ^b	—	22 ^b	—	—	—	—	—	—	—	—	—	—
Herbert ^b	5	5	2	3 ^b	—	—	—	—	5	—	—	—	—	—	—	—	—	—	—
Seneca ^b	20	16	11 ^b	7	—	9 ^b	5	—	—	—	—	—	—	—	—	—	—	—	—
7576 ^b	10	13	15 ^b	2 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8717 ^b	20	13	12 ^b	1	—	3	8 ^b	—	6	—	—	—	—	—	—	—	—	—	—
9549 ^b	44	31	25 ^b	10	24 ^b	3	4	—	18	—	—	—	—	—	—	—	—	—	—
Wayne ^c	6	3	3 ^c	—	—	—	—	—	1 ^c	—	—	—	—	—	—	—	—	—	—
Wayne ^c (selfed)	63	19	13	3	11	—	5	—	4	—	—	—	—	—	—	—	—	—	—
X Wayne ^c																			
Campbell ^b	11	10	9 ^b	1	10 ^b	—	—	—	5	—	—	—	—	—	—	—	—	—	—
Golden Muscat ^b	82	75	63 ^b	16	7	25	43 ^b	—	24	—	—	—	—	—	—	—	—	—	—
Iona ^b	49	33	25 ^b	8	13	13 ^b	1	—	7	—	—	—	—	—	—	—	—	—	—
Muscat Hamburg ^b	1	1	1 ^b	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sheridan ^b	49	43	31 ^b	11	35 ^b	1	—	—	17	—	—	—	—	—	—	—	—	—	—
9408 ^b	32	23	17 ^b	6	5	12 ^b	—	—	9	—	—	—	—	—	—	—	—	—	—
8717 ^b	36	33	24 ^b	6	6	4	23 ^b	—	20	—	—	—	—	—	—	—	—	—	—
9549 ^b	53	47	33 ^b	13	46 ^b	3	—	—	39	—	—	—	—	—	—	—	—	—	—
10606 ^b	22	19	9 ^b	10	13 ^b	—	3	—	6	—	—	—	—	—	—	—	—	—	—
10621 ^b (selfed)	13	13	9 ^b	4	—	7 ^b	6	—	7 ^b	—	—	—	—	—	—	—	—	—	—
X 7957 ^d																			
7601 ^b	6	6	2 ^d	4	2 ^d	4	—	—	—	—	—	—	—	—	—	—	—	—	—

*One named Buffalo.
 7408 (Ross X Mills); 7576 (Mills X Ontario); 8717 (Kensington X Triumph); 9549 (Secretary X Campbell); Wayne = Mills X Ontario; 10606 (Frankenthal precece X Ripley); 7601 (Mills X Ontario); and 7957 (Gaertner X Mills).

most crosses with American parentage. The number of seedlings retained for future trial is a good criterion of success. From approximately 25,000 seedlings fruited at Geneva and Fredonia, 29 have been named and 12 of these are either Ontario crosses or crosses possessing one or both of Ontario's parents.

With the exception of the Moore Early cross, the crosses between Ontario and the early and medium late American varieties have given little or nothing of value. The story is entirely different in the other crosses. Lignan blanc, an early European type, when crossed with Ontario gave the Seneca. Mills crossed with Ontario produced the Watkins, Wayne and Yates. The Keuka, (one-half Mills) crossed with Ontario gave the Ruby. Eden, a new early black, is one-fourth Mills and one-half Ontario, while Buffalo is one-fourth Mills and one-quarter Ontario. In the future Ontario's seedlings such as Buffalo, Eden, Seneca, Watkins and Yates will be used largely in our breeding program for according to experience the use of the best seedlings in each generation usually gives better results than the preceding generations.

LITERATURE CITED

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