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SEE ALSO FOLDER (BLUE)

ROSE RELEASES INCL. RUG X CHIN HYBRIDS, OTHERS
WEIGELA "

PHILADELPHUS "

FORSYTHIA "

DEVELOPMENT OF EXPLORER ROSES

TEST RESULTS EXPLORERS

" " ROSE SELECTION SENT TO L'ASSOMPTION

PEDIGREE INCL. SIMONET SELECTIONS

AND OTHER PARENT ROSES

TEST RESULTS FROM CROSS POLLINATIONS

SELECTED SEEDL. USED FOR BREEDING

HISTORY OF EXPLORERS AND HISTOR. PERSONALITIES
FOR WHICH SERIES WAS NAMED

EXC. ROYAL EDWARD HOSPITAL

J.P. CONNELL DEPUTY RETIRING

LAUNCHING OF DE MONTARVILLE

CLASSIFICATION

ARTICLE "CANADIAN EXPLORER ROSES" AM. ROSE/ANN 1984

"THE FREDERICTON DAILY GLEANER": EXPLORER ROSES
THRIVE IN MARITIME CLIMATE (JILL ROBINSON?)

LAUNCHING OF MARIE VICTORIN (1998 MT BOT GARD)

CANADIAN EXPLORER ROSES

SELECT CODE	9 CLIMBERS	YR RELEASED	YRS TESTED IN OTTAWA
E18	(A) CAPTAIN SAMUEL HOLLAND	1990	5
L57	(O) HENRY KELSEY	1984	15
L07	(O) JOHN CABOT	1978	17
L94	(O) JOHN DAVIS	1986	9
P03	(A) LOUIS JOLLIET	1990	2
U35	(AC) MARIE VICTORIN	1998	2
N01	(A) QUADRA	1996	5
W05	(O) WILLIAM BAFFIN	1983	10
E34	(AC) WILLIAM BOOTH	1999	2

5 R. RUGOSA HYBRIDS

G48	(O) CHARLES ALBANEL	1982	15
F01	(O) DAVID THOMPSON	1979	14
F62	(O) HENRY HUDSON	1976	18
F36	(O) JENS MUNK	1974	20
F06	(O) MARTIN FROBISHER	1968	23

11 BUSH ROSES

A22	(O) AL MACKENZIE	1985	14
U04	(O) CHAMPLAIN	1982	13
E25	(AC) DE MONTARVILLE	1997	3 ^x
N02	(A) FRONTENAC	1992	5
P01	(A) GEORGE VANCOUVER	1994	3 ^x
A51	(O) J.P. CONNELL	1986	12
A21	(O) JOHN FRANKLIN	1979	13
U33	(A) LAMBERT CLOSSE	1995	3 ^x
N06	(A) NICOLAS	1996	3 ^x
E22	(A) ROYAL EDWARD	1994	3 ^x 5
(N08) SEE NOTES	(A) SIMON FRASER	1992	0 ! gave wrong percentage

RELEASED FROM OTTAWA = O
 RELEASED FROM L'ASSOMPTION = A
 RELEASED FROM STE. JEAN = AC

SEE NOTES } origin of selection
 SEE NOTES } Hilroy

CANADIAN EXPLORER ROSES

9	<u>CLIMBERS</u>	SEL. CODE	SEEDL. CODE
	CAPTAIN SAMUEL HOLLAND	E18	81 L48 U11 002
	HENRY KELSEY	L57	71 K01 D24 055
	JOHN CABOT	L07	69 K01 D14 094
	JOHN DAVIS	L94	77 L49 0000 45
	LOUIS JOLIET	P03	84 L83 E12 003
	MARIE VICTORIN	U35	84 T11 L83 006
	QUADRA	N01	81 B08 U11 003
	WILLIAM BAFFIN	U05	74 L48 000 003
	WILLIAM BOOTH	E34	84 L83 A72 001

5 R. RUGOSA HYBRIDS

	CHARLES ALBANEL	G48	70 G09 0000 41
	DAVID THOMPSON	F01	70 F70 0000 42
	HENRY HUDSON	F62	66 F16 000 050
	JENS MUNK	F36	64 R13 R05 015
	MARTIN FROBISHER	F06	61 R13 000 049

11 BUSH ROSES

	A. MACKENZIE	A22	70 T18 D15 008
	CHAMPLAIN	U04	73 L02 D08 038
	DE MONTARVILLE	E25	82 E14 0000 18
	FRONTENAC	N02	83 B08 U11 025
	GEORGE VANCOUVER	P01	83 L83 L10 001
	J. P. CONNELL	A51	73 T11 D17 001
	JOHN FRANKLIN	A21	70 T16 D10 018
	LAMBERT CLOSSE	U33	83 T11 L94 003
	NICOLAS	N06	83 B08 L03 054
	ROYAL EDWARD	E22	82 K01 U32 047
	SIMON FRASER	N08	86 B04 N02 001

YOUNG SEEDLING, NOT FIELD TESTED IN OTTAWA

OGILVIE GAVE PARENTAGE AS ~~A~~ B04 P01 BUT THERE WAS NO RECORD THAT HE MADE THAT CROSS, AS HE DID, TO MY MEMORY, MAKE NO CROSSES BETWEEN EXPLORERS

Test Results CANADIAN EXPLORER ROSES

YRS TESTED
COTTAGE

Code	Name	Wint. Inj.	Weeks Flow.	Amount Bloom	Mildew	Black spot	No Petals	Color	Remarks
14	A. MACKENZIE	4.2	9.4	2.4	1.3	1.9	40+	red	
5	CAPT. SAMUEL HOLLAND	2.4	9.7	2.4	1.0	2.0	23	red	CL
13	CHAMPLAIN	4.8	13.6	3.4	1.2	4.0	30	red	
15	CHARLES ALBANEL	1.5	11.3	2.0	1.2	1.2	20	pink	H Rg
14	DAVID THOMPSON	2.1	13.8	2.4	2.0	1.3	32	red	H Rg
3	DE MONTARVILLE	3.2	14.3	3.0	1.0	5.0	24	red	
5	FRONTENAC	2.3	13.6	3.1	1.0	1.9	6-10	pink	
3	GEORGE VANCOUVER	2.5	13.6	2.4	1.0	3.0	20	red	
18	HENRY HUDSON	1.5	13.4	2.3	1.8	1.2	20	white	H Rg
15	HENRY KELSEY	3.5	9.0	2.9	1.0	3.2	25	red	CL
12	J. P. CONNELL	4.9	8.1	2.2	1.0	3.6	26-50	cream	
20	JENS MUNK	1.3	12.7	2.2	1.4	1.0	25	pink	H Rg
17	JOHN CABOT	3.2	10.3	2.5	1.1	2.4	30	red	CL
9	JOHN DAVIS	2.1	11.6	2.8	1.8	2.4	50	pink	CL
13	JOHN FRANKLIN	4.9	14.0	2.6	1.0	4.1	25	red	
3	LAMBERT CLOSSE	3.5	13.3	2.7	1.0	5.0	53	pink yell	
2	LOUIS JOLLIETE	1.5	14.5	3.3	1.0	1.5	35	pink	CL
2	MARIE VICTORIN	3.0	13.5	2.7	1.5	4.5	28	pink yell	CL
23	MARTIN FROBISHER	2.3	13.3	2.3	1.4	1.9	40	pink	H Rg
3	NICOLAS	3.5	15.3	3.4	1.0	4.3	18	red	
5	QUADRA	2.2	12.8	2.3	1.3	4.0	26-50	red	CL
3	ROYAL EDWARD	1.3	11.5	3.2	1.0	2.5	16	pink	
0	SIMON FRASER	-	-	-	-	-	-	pink	BOS NOZ NOT BOS POL
10	WILLIAM BAFFIN	2.6	10.4	2.5	1.0	1.5	20	red	CL
2	WILLIAM BOOTH	1.0	12.5	2.8	1.0	3.5	5	d. red	CL

NO TEST RESULTS FROM LI ASSUMPTION
AT LEAST 4 YRS WERE WASTED IN DEVELOPMENT

TEST RESULTS EXPLORERS (ASSUMPTION) NAMED

CAPTAIN SAMUEL HOLLAND E18 - 8148011002
(R. Kard. ^{LYP} x D15) x ((R. Kard. ^{U11} x D07) (D07))

Rating	Shrub	Foliage	Flower	Perf. Total	Total	%
Prel.	11	9	19	31	70	75
1985	9	10	21	31	71	76
see test 18	8	9	22	27	66	71

abets hips - used a parent. no seed. sel.

FRONTENAC N92 81808011025
(A15D36) x (L25U25) = A15 : T18T11 L25: K01D07
D36 : 567553 D25: D07000

Rating	Shrub	Foliage	Flower	Perf.	Total	%
Prel.	9	9	20	32	70	75
see test 18	10	10	21	32	73	78
Plant genetic stock	9	11	25	32	77	83

offspring SIMON FRASER / 89B04N02 30 seedl.
Jau and Nevill gave wrong parentage
N08 new code given by myself in 1998.
not distributed to Bailey

QUADRA N01 - 81808011003 see FRONTENAC

Rating	Shrub	Foliage	Flower	Perf.	Total	%
Prel.	8	9	22	25	64	69
see test 18	9	10	22	25	66	71

some susceptibility to blackspot

TEST RESULTS EXPLORERS (ASSUMPTION)
NAMED

DE MONTARVILLE

E 25 #2E14000018
(T18^{A15} x T11) (K01^{L76} x D24)

D24 = { [Red Pinocchio (J. Hill x R-spin-alt)] } o.p.o.p.

Rating	Shrub	Foliage	Flower	Peef.	Total	%
Prel.	9	9	22	29	69	74

1982 2 seed. rel. E24 & E25. E25 might be preferable because it is slightly more hardy and might have some resistance to blackspot

GEORGE VANCOUVER

P01^{L83} #3L#3E10 E10
(K01 x G49) (L15 x champion)

L15 = K01 D07

Rating	Shrub	Foliage	Flower	Peef.	Total	%
Prel.	10	10	25	31	76	82

low shrub? turned out to be shrub
thorny, fol. leathery, abundant. Fl. open form but symmetrical lovely l. red & cm of frequent, about 20 petals Hardy, repeating free bloom, moderately susceptible to blackspot

LAMBERT CLOSSE U33

#3 T11 L94003

Arthur Bell x John Davis

Rating	Shrub	Foliage	Flower	Peef.	Total	%
Prelim.	9	11	24	23	73	78

Fl. lovely in half open stage: l pink, 9cm of re. frequent about 20 petals
fol. glossy, leathery.

TEST RESULTS EXPLORERS (ASSUMPTION)
NAMED

NICOLAS NO6

83 B08L03054 L78

$$[(T10 \times T11) \times D36] \times \frac{K01S93}{L43}$$

L78 = K01S93 R. Kard. Applejard

D36 = S67S53

Rating	Shrub	Foliage	Flower	Reef.	Total	%
	10	9	25	30	74	80

Some winterkill but not distracting on flower shrub

Excellent flower abilit. susceptible to blackspot

ROYAL EDWARD E22 82 K01U32047

$$U32 = U07op = (K01D08) \times Zeus$$

Rating	Shrub	Foliage	Flower	Reef.	Total	%
Preb.	9	9	20	29	67	72

Trailing growth, Fls open form, pink about 6.5cm φ
sl. fragrant about 16 petals
Patented us

TEST RESULTS EXPLORERS

(7)

LOUIS JOLLIET P03 84L83E12 =
(K01649) (L15 x diamplain)

Rating	Shrub	Foliage	Flower	Perf.	Total	%
Perf.	9	9	21	32	71	76

fl. deep pink, 7 cm ϕ , 35 petals; petaloids color streaked. climb. 1 m spread. large

MARIE VICTORIN U35 84T11L83

Rating	Shrub	Foliage	Flower	Perf.	Total	%
Perf.	9	9	22	30	70	75

long fl. season, flav. disease resist. in 1985, rel. hardy. Fls pink on yellow ground, 38 petals, sl. fragr. 9 cm ϕ climb. habit many buds. lovely buds

WILLIAM BOOTH E34 84L83A72001
A72 = Astor Bell x Applejack

Rating	Shrub	Foliage	Flower	Perf.	Total	%
Perf.	12	12	16	32	72	77

v. hardy ^{pink} disease resist. repeat bloom, freejars
Fl. ~~best~~ 5 petals deep red sl. fragr.
very neg. dense shrub cl. habit
breeding only

WINTERSURVIVAL OF R. RUBROSA HYBRIDS OF THE EXPLORER SERIES¹⁾

TEST LOCATION	PLANT HARDINESS ZONE	CHARLES ALBANEL	DAVID THOMPSON	HENRY HUDSON	JENS MUNK	MARTIN FROBISHER
CANADA						
KENTVILLE, N.S.	6a ²⁾	7	8	8	8	8
FREDERICTON, N.B.	5a	5	-	-	-	8
QUEBEC CITY, QUE	4b	8	-	-	-	-
LA POCAIÈRE, QUE	4a	-	-	-	-	8
MONTREAL, QUE	5b	6	8	-	-	-
SMITHFIELD, ONT	6b	-	-	-	-	8
VINELAND, ONT	6b	8	8	8	8	8
GUELPH, ONT	6b	6	8	-	-	-
OTTAWA, ONT.	5a	8	8	8	8	8
KAPUSKASING, ONT.	2a	7	-	-	-	2
KAKABEKA FALLS, ONT	3a	8	7	-	-	-
THUNDER BAY, ONT	3a	-	-	-	8	8
MORDEN, MAN.	3b	7	4.5	-	5	6
THE PAS, MAN.	1b	-	-	-	7	6
SWIFT CURRENT, SASK	3a	6	7	-	-	8
BROOKS, ALTA	3a	8	8	7	8	2
EDMONTON, ALTA	3a	-	-	8	7	6
BEAVER LODGE, ALTA	2a	-	-	7	8	5
PRINCE GEORGE, B.C.	3	-	-	-	8	8
VANCOUVER, B.C.	8b	8	8	-	-	-
U. S. A.						
GENEVA, N.Y.	3 ³⁾	-	-	-	-	8
HALES CORNERS, WISC.	4	-	-	-	-	8
CHASKA, MINN.	3	-	-	-	-	-
PALMER, ALASKA	(?)	-	-	-	-	8

1) OUELLET, C. E. AND L. C. SHERK. 1967. MAP OF HARDINESS ZONES IN CANADA. AGR. CAN. PUBL. 5003

2) REHDER, A. MAP OF CLIMATIC ZONES I - VII in: MANUAL OF CULTIVATED TREES AND SHRUBS. 2nd Ed. DIOSCORIDES PRESS, PORTLAND, OREGON

3) THE AMOUNT OF WINTERKILL WAS RATED AS FOLLOWS: SEVERE 1, 2 MEDIUM 3, 4, 5 SLIGHT 6, 7 NONE 8

(9)

WINTER SURVIVAL OF BUSH- AND CLIMBING ROSES
OF THE EXPLORER SERIES

TEST LOCATION	PLANT HARDINESS ZONE	ALEX. HACKENZIE BUSH	CHAMPLAIN BUSH	JOHN FRANKLIN BUSH	HENRY KELSEY CLIMB.	JOHN CABOT CLIMB	WILLIAM BAFFIN CLIMB.
CANADA							
KENTVILLE, N.S.	6a ¹⁾	8	8	8	8	8	7
FREDERICTON, N.B.	5a	6	6	3	5	8	-
QUEBEC CITY, QUE.	4b	8	7	-	8	-	8
L'ASSOMPTION, QUE.	5a	4	7	-	7	-	-
MONTREAL, QUE.	5b	8	8	-	8	8	8
VINELAND, ONT.	6b	8	7	-	8	8	-
HAMILTON, ONT.	6b	8	7	7	6	8	8
GUELPH, ONT.	5b	6	6	4	5	7	-
OTTAWA, ONT.	5a	4	5	5	6	6	7
KAPUSKASING, ONT.	2a	-	-	-	6	-	6
KAKA BEKE FALLS, ONT.	3a	4	5	2	5	5	-
MORDEN, MAN.	3b	-	5	7	6	4	7
SWIFT CURRENT, SASK.	3a	-	6	-	5	8	-
BROOKS, ALTA.	3a	-	6	-	7	7	7
PRINCE GEORGE, B.C.	3	-	-	-	5	-	-
VANCOUVER, B.C.	8b	-	-	8	-	8	-
SIDNEY, B.C.	8b	8	8	-	8	-	-
U.S.A.							
HALES CORNERS WISC.	4 ²⁾	6	3	-	4	-	-
CHASKA, MINN.	3	2	-	-	5	-	-

1) SEE TABLE

2) SEE TABLE

3) SEE TABLE

PEDIGREE OF EXPL. ROSES

SEED. CODE

①	A22	A. MACKENZIE	70 T18 D15 008	QUEEN ELIZ. x (F ₂ RED DAWN x SUZANNE)
②	A	E18	CAPT. SAM. HOLLAND 81 LY8U11002	(K01 D15) x [(K01 D07)(D07000) D25]
③		VOY	CHAMPLAIN 73 L02 D08 038	(K01 G12) (RED DAWN x SUZANNE)
④	x	F01	DAVID THOMPSON 70 F70000037	F3 (R13 ROS) o.p.
⑤	INSERT x	F62	HENRY HUDSON 66 F16000050	63 R13 000070
⑥	x	L57	HENRY KELSEY 71 K01 D24 055	D24 = D09 o.p. = SIM. [(Red Pinocchio) x (J. Hill x R. spinosissima altaica)]
⑦		A51	J. P. CONNELL 73 T4 D17 002	ARTH. BEBL x F. VON SCHARNHORST o.p.
⑧		F36	JENS MUNK 64 R13 R05 013	SCHNEEZWERG x FRAU DAEMAR HARTOPP
⑨		L07	JOHN CABOT 69 K01 D14 094	R. KORD x [(MASQUERADE x R. LAXA HORT) o.p.]
⑩		L94	JOHN DAVIS 77 L49 000045	70 K01 D08 042 = R. KORD x (RED DAWN x SUZANNE)
⑪		A21	JOHN FRANKLIN 70 T16 D10 018	LILI MARLENE x S44 000005 S44 = RED PINOCCHIO x (J. HILL x R. SPIN. ALTAICA)
⑫	x	F06	MARTIN FROBISHER 61 R13 000049	SCHNEEZWERG o.p.
⑬		N06	NICOLAS 83 B08 L03 054	(A15 x D36) x (L75 x D25) A15 = QUEEN ELIZ x A. BELL D36 = S67 S53 = DBL Red SIMONET x VON SCHARNHORST L75 = K01 D07 D25 = D07000
⑭		N01	QUADRA 81 B08 U11 003	B08 SEE ABOVE = (A15 x D36)
⑮	x	N02	FRONTENAC 81 B08 U11 025	U11 SEE E18 = [(K01 D07)(D07000)] D25
⑯		R12	ROYAL EDWARD 82 K01 U32 047	K01 = R. KORDISSI U32 = 78 U07 000005 U07 = 75 L43 K10003 L43 = 70 K01 D08 27 K10 = ZEUS

PEDIGREE OF EXPLORER ROSES

- 17) EW DE MONTARVILLE 82 E14000018
 E14 = 79 A15L76006
 A15 = QUEEN ELIZ. X
 ART. BELL
 L76 = 72 L12D24021
 L12 = 69 K01D14099
 D14 = 542000 = pink
 (MASQUERADE X R. LAXA
 HORT)
 D24 = 67D09000074
 = F₂ RED PINOCCHIO X
 (J. HILL X R. SPIN. ALT.)
- 18) P01 GEORGE VANCOUVER 83LP3E10001
 LP3 = K01649
 E10 = 78 L15U04002
 L15 = K01D07
 U04 = CHAMPLAIN
- 19) U33 LAMBERT CLOSSE 83T11E94003
 ARTH. BELL X
 JOHN DAVIS
- 20) P03 LOUIS JOLLIET 83 L83E12003
 883 = K01649
 E12 = L15 X U04
 E12 see above = sibling
 to E10
- 21) U35 MARIE VICTORIN 84T11L83006
 T11 = ARTH. BELL
 L83 = K01649
- 22) 648 CHARLES ALBANEL 70609000041
 F₃ SOUV. DE PHIL.
 COCHET O.P.
- 23) U05 WILLIAM BAFFIN 74 L48000003
 L48 = 70 K01D15015
- 24) E34 WILLIAM BOOTH 84L83A72001
 L83 = K01649
 A72 = T11 S93
 ARTH. BELL X
 APPLE JACK

Canadian Explorer Roses

Felicitas Svejda.

The 'Explorers' are well known and grown around the globe, mostly in northern regions, but also in New Zealand and Australia. Efforts at Agriculture Canada, now Agr. and Agri-Food Canada establishments at Ottawa's Central Experimental Farm and Experimental Farm L'Assomption produced 25 'Explorers'. Of these, 24 are readily traced to their origin at Ottawa, but Drs. Ian Ogilvie and Neville Arnold at L'Assomption continued the testing and named 12, registered, described and promoted them (Table 1).

the

The origin of 'Simon Fraser' rose remains an enigma, but more of this later.

Aim of Breeding Program

I began this program in 1961 to obtain winterhardy and repeatedly flowering roses. At that time, very few roses had this combination of attributes, and most of these were hybrids of Rosa rugosa Thunb. R.rugosa is also highly resistant to blackspot.

Plans for the synthesis of winterhardy, remontant and disease resistant roses with attractive flowers and shrubs and a range of flower colors were devised for programs with diploid and tetraploid roses(14).

Diploid Roses.

For this program, hardiness and disease resistance was to be derived from cultivars of R.rugosa and the everblooming habit and delicacy of flowers was to be derived from cultivars of R. chinensis L. and the color range was to be extended by hybridizing R.rugosa taxa with the yellow flowering R.hugonis Hemsl. and R. ecea Aichison. The intermediate steps in this program were (a) to obtain hybrids between R.rugosa and R.chinensis cultivars.(b) to improve the commercially available R.rugosa cultivars. (c) to obtain yellow flowering hybrids.

Step (a) produced a number of hybrids, four of which were named 'Sidney', 'Moncton', 'Bonavista' and 'Elmira'. These roses were registered, and described but not released to the trade.(16).

Step (b) produced five new rugosa cultivars, which were the first 'Explorers'.

Step (c) produced several hybrid seedlings from 'Martin Frobisher' and R.hugonis, but only one was retained and coded G27.

Tetraploid Roses.

The aim of the tetraploid program was two-fold: (1) to develop hardy, remontant and disease resistant bush roses with attractive shrubs and the beauty and abundant flowering and color range of Hybrid Tea and Floribunda roses. (2) to develop hardy, remontant, abundantly flowering and disease resistant climbing roses.

Rugosa Hybrids .

Charles Albanel originated from 3 cycles of open pollination from 'Souvenir de Philemon Cochet' (20).

David Thompson originated from open pollination of an unnamed seedling from 'Schneezweg' x 'Frau Dagmar Hartopp' (18).

Henry Hudson originated from two cycles of open pollination from 'Schneezweg' (15).

Jens Munk originated from 'Schneezweg' x 'Frau Dagmar Hartopp' (13).

Martin Frobisher originated from open pollination of 'Schneezweg' (12).

All five rugosa cultivars are very hardy, flower repeatedly and are highly resistant to powdery mildew and blackspot. 'Martin Frobisher' was found to be drought resistant in New Zealand.

Tetraploid Bush- and Climbing Roses.

The combined efforts at Ottawa and L'Assomption produced eleven bush roses and nine climbing roses.

Origin.

(A). R.kordesii Wulff was the parent or progenitor of all except **Alexander MacKenzie, John Franklin and J.P.Connell**.

R.kordesii originated from unreduced gametes of the usually sterile R.rugosa x R.wichuraiana hybrid 'Max Graf'. It is an excellent seed parent, but insufficiently hardy for the Ottawa winters. It flowers repeatedly and is resistant to powdery mildew and blackspot.

From open pollination of 'Max Graf' , I obtained fertile seedlings. Dr.D.R.Sampson examined G12 cytologically and found it was tetraploid. From open pollination of G12, I selected G49 for improved ornamental features. The cross R.kordesii x G49 produced L83, which in turn was an excellent parent rose, but hardier than R.kordesii(27).

The 'Explorers' **Marie Victorin, Louis Jolliet , George Vancouver and William Booth** were derived from L83.

(B). Simonet Hybrids. The late Robert Simonet of South Edmonton, Alta. kindly sent us some of his unnamed seedlings for further study and use as parents. From open pollination of these seedlings I obtained different offspring with ornamental features . These produced seeds only from open pollination. As pollen parents they were the progenitors of most 'Explorers', except **J.P.Connell, Marie Victorin and William Booth**.

The following roses were obtained from Simonet, coded at Ottawa:

(1). S42 was obtained from 'Masquerade' x pink laxa. From open pollination I selected D14, which was the pollen parent of **John Cabot**.

(2). S44 was obtained from 'Red pinocchio' x ('Joanna Hill' x R.spinosissi altaica). From open pollination of S44 I selected the seedlings D09 and D10 and from D09 I selected D24, D10 was the pollen parent of **John Franklin**. D24 was the pollen parent of **Henry Kelsey** and also the progenitor of **De Montarville**.

(3). S45 was obtained from a cross 'Red Dawn' x 'Suzanne'. From open pollination I selected D07 and D08, and again from D07, D15 and D25. D08 was the pollen parent of **Champlain** and Champlain was the progenitor of **George Vancouver** and **Louis Jolliete**. D08 was also the progenitor of **John Davis**. John Davis was the pollen parent of **Lambert Closse** and a progenitor of **Royal Edward**.

D15 was the pollen parent of **Alexander MacKenzie** and a progenitor of **Will Baffin**.

D25 was the pollen parent of U11, the progenitor of **Capt. Samuel Holland**, **Quadra** and **Frontenac**.

(4). S67, a double red of unknown origin. The cross S67 x 'Von Scharnhorst' produced D36, which in turn produced B08 from a cross with A15, derived from 'Queen Elizabeth' x 'Arthur Bell' . B08 was the seed parent of **Quadra**, **Frontenac** and **Nicolas**.

(C). Other winterhardy roses: 'Von Scharnhorst' , 'Applejack' and 'Zeus' were used.

G17, derived from open pollination of 'Von Scharnhorst', was the pollen parent of **J.P.Connell** . 'Applejack' was a progenitor of **William Booth** and **Nicolas**. 'Zeus', a yellow climber which survived the winters in Ottawa with protection, was a progenitor of **Royal Edward** .

(D). Tender roses were used sparingly. A15(see above) , was produced out of curiosity. The Grandiflora 'Queen Elizabeth' was the seed parent of **Alexander MacKenzie**. The Floribunda 'Lilli Marlene' was the seed parent of **John Franklin** . 'Arthur Bell' , a yellow Floribunda, 'Zeus' and 'Von Scharnhorst' were used in quest for yellow roses. 'Arthur Bell' was the seed parent of **J.P.Connell** and **Marie Victorin**.

Simon Fraser. The origin of this rose remains an enigma. Drs.Ogilvie and Arnold (4) give it as B04 x P02. Both B04 and P02 were transferred to L'Assomption in 1987, but the records I have seen, showed no new selection entered into the Code Book. In consultation with **Mme.Claude Richer** and **M. Christian Bédard**, it was entered into the Code Book as N08, originating from B04P02. I tacitly assumed it was one of the young seedlings Dr.Ogilvie took to L'Assomption in his van in 1986. A separate list of young seedlings was not prepared. Another examination of my records showed that the cross B04 x P02 was not made in Ottawa. Among the young seedlings were 30 from the cross B04 x N02. N02 was named **Frontenac** (see above).

I wrote this article to clarify the origin but not to claim sole credit for the 'Explorers'. It would have been difficult even for more experienced rose breeders to continue the breeding program as it was conceived initially. Due to the combined efforts at Ottawa and L'Assomption there

are now 25 instead of only 13 'Explorers'.

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Table 1. AC Explorer Rose Releases.

Name	Year released		Test Years		Co-Op. Trial
	Ottawa Res. Station	Exper.Farm L'Assomption	Ottawa No.	L'Assomption No.	
Alexander MacKenzie	1985		14	0	1981-83
Capt. Samuel Holland		1990	5	5	
Champlain	1982		13	0	1980-82
Charles Albanel	1982		15	0	1981-83
David Thompson	1979		14	0	1978-80
De Montarville		1997	3	3	
Frontenac		1992	5	5	
George Vancouver		1994	3	3	
Henry Hudson	1976		18	0	1973-75
Henry Kelsey	1984		15	0	1981-83
J.P.Connell	1986		12	0	
Jens Munk	1974		20	0	1978-80
John Cabot	1978		17	0	1977-79
John Davis	1986		9	0	
John Franklin	1979		13	0	1978-80
Lambert Closse		1995	3	3	
Louis Jolliet		1990	2	3	
Marie Victorin		1998	2	3	
Martin Frobisher	1968		23	0	1968-77
Nicolas		1996	3	3	
Quadra		1994	5	3	
Royal Edward		1995	3	3	
Simon Fraser		1992	0	5	
William Baffin	1983		10	0	1982-84
William Booth		1999	2	3	

AEC EXPLORER ROSES RELEASES

NAME	YEAR RELEASED		TEST YEARS		CO-OP TRIAL
	OTTAWA REC. STATION	EXPER. FARM L'ASSOMPTION	OTTAWA NO	L'ASSOMPTION NO	
AB MACKENZIE	1985		14	0	1981-83
CAPT. SAMUEL HOLLAND		1990	5	5 ✓	-
CHAMPLAIN	1982		13	0	1980-82
CHARLES ALBANEL	1982		15	0	1981-83
DAVID THOMPSON	1979		14	0	1978-80
DE MONTARVILLE		1997	3	3	-
FRONTENAC		1992	5	5	-
GEORGE VANCOUVER		1994	(2) 3	3 ✓	-
HENRY HUDSON	1976		18	0	1973-75
HENRY KELSEY	1984		15	0	1981-83
J.P. CONNELL	1986		12	0	-
JENS MUNK	1974		20	0	1978-80
JOHN CABOT	1978		17	0	1977-79
JOHN DAVIS	1986		9	0	-
JOHN FRANKLIN	1979		13	0	1978-80
LAMBERT CLOSE		1995	(2) 3	3	-
LOUIS JOLLIET		1990	2 ✓	3	-
MARIE VICTORIN		1998	2	3	-
MARTIN FROBISHER	1968		23	0	1968-77
NICOLAS		1996	(2) 3	3	-
QUADRA		1994	(2) 5	3	-
ROYAL EDWARD		1995	(2) 3	3	-
SIMON FRASER		1992	0	5	-
WILLIAM BAFFIN	1983		10	0	1982-84
WILLIAM BOOTH		1999	2 ✓	3	-

SEE NOTES ON SELECTIONS

NO1 = QUADRA 81 B08U11003 rel. 1994 climb.

'83: very hardy, long fl. period, prolific; some suscept. to blackspot

Fl. very double, red, color does not fade, fragrant week made. Fol. glossy. about 1m high, trailing. week branches. Some hips Petals do not abscise well

Reting	shrub	Fol.	Flw.	Prof.	Total
See. test 18	9	10	22	25	66

NO2 = FRONTENAC 81 B08U11025 bush

'83 - v. hardy & exc. flower. attributes, resistant

to diseases. Fls. pink, sl. fragrant, v. levelly buds 20 petals, color fades. Fol. semi-glossy. Bush type 1m high, spread. might be suitable for release Excellent parent rose

'85 - color in cluster variable pink - red. (due

to fading or climaxes?)

Reting	shrub	Fol.	Flw.	Prof.	Total
See. test 18	10	10	21	32	73

NO6 = NICOLAS 83 B08L03054 bush

'85 - low climber or tall shrub, vig. height 1m one-year old wood dark brown, attractive.

Fol. dark green, glossy. Fls. open form, bright red but petals are sl. streaked. 6cm φ, spicy fragrance, about 18 petals, exc. texture

Reting	shrub	Fol.	Flw.	Prof.	Total
See. test 18	11	11	24	29	75

blackspot

PO1 = GEORGE VANCOUVER 83 L83 E1001 bush

'85 First offspring from crosses with E selections

low climber, dense growth. sl. winter kill, no pruning required. Thorny. Fol. abundant, leathery Fls. open form, symmetrical, levelly light red color 8cm φ, fragrant, about 20 petals

comp;

E25 = DE MONTARVILLE - 82E14000012 bush

'84 repeating, flex., res. to mildew, but not to black spot. Survived test winter of 82/83. Bush rose. Fol. blue-green; fl. open green, but regular, light red. petals obscure cream. about 9.5 cm, very fragrant, about 24 petals

	Shrub	Fol	Flower	Petal	Total
Prcl. rating	9	9	22	24	68

might be preferable to E24 because it is sl. more hardy and might have resistance to black spot

wrong pedigree given in Hort Sci. 34(2) 358-360. 1999.

U33 LAMBERT CLOSE ^{JOHN DAVIS} 83 T11 L94 003 bush

Bush rose, about 1 m, spread 0.8 m.

Some resistancy, but not distorting on fl. plant (no pruning?) Fol. large, l. green, glossy, leathery fl. level in half-open stage. l. pink, col. fades, about 9 cm of sl. frag. about 90 petals

	Shrub	Fol	Flower	Petal	Total
Prcl. rating	9	11	24	28	73

U35 MARIE VICTORIN 84 T11 L83 006 climber

86' long fl. season, flexif. disease res. in '85 rel. hardy fl. pink / yell ground, 38 petals sl. fragrant, 9 cm φ 1 m high, 1.5 m.

	Shrub	Fol	Flower	Petal	Total
Prcl. rating	9	9	22	30	70

wrong percentage publ. in HORT SCI