

R9901: Roza 1999 Dark Red and White Kidney Root Rot Trial.

Line	Yield lbs/A	100-seed wt. (g)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
<u>Dark Red Kidney</u>					
H9659-39-B	2908	43.8	3.7	5.3	5.7
H9659-41-2	2341	48.0	4.0	3.3	5.3
G-122	2265	32.8	3.6	3.4	5.1
H9659-39-2	2213	44.8	3.7	4.3	4.7
H9659-41-5	2134	45.2	3.0	3.3	5.3
H9659-41-3	2086	38.6	2.7	2.7	4.7
H9659-41-B	1984	47.0	3.1	2.4	4.6
H9667-45-3	1928	42.6	3.1	3.9	4.6
H9667-56-9	1923	38.4	3.0	4.7	5.0
USWA-39	1830	47.4	3.1	2.9	6.1
H9667-68-7	1624	39.4	3.1	5.4	3.6
H9659-37-2	1605	43.2	3.1	5.9	3.1
I9566-33-3-2-1	1598	42.6	2.6	3.4	4.1
SVM-2242	1589	42.2	3.0	3.7	4.0
H9667-63-2	1587	44.2	2.3	4.0	4.0
RedHawk	1474	43.4	4.7	4.3	4.3
AC-Calmont	1461	46.0	4.1	3.9	4.6
OT9641-191-3	1325	43.8	4.7	4.0	3.3
USDK-4	1264	40.4	3.1	4.4	4.6
H9667-59-2	1245	36.4	2.6	2.9	1.6
Montcalm	1215	44.8	5.1	4.9	5.6
I9566-36-7-1	1183	49.0	4.1	3.4	5.6
H9657-13	1138	42.4	3.0	5.3	3.0
I9566-12-6-2	1134	41.4	5.6	5.9	4.6
Drake	1023	43.0	4.1	4.4	2.6
I9566-36-4-1	1016	45.2	4.1	5.9	5.1

OT9641-191-4	866	50.6	3.1	4.4	5.1
USDK-5	831	44.8	3.0	4.0	3.3
I9566-10-11-1-1	506	47.6	5.3	5.3	4.6

White Kidney

USWA-70	1269	48.2	5.0	4.3	5.7
Lassen	1049	46.2	6.3	5.7	3.0
Beluga	888	42.2	6.1	6.4	4.1
Mean	1469	43.6	3.9	4.4	4.3
LSD 5%	688	4.7	1.4	2.4	1.8
C.V.%	29	5.4	22.1	33.1	24.8

The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9902: Roza 1999 Cranberry Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Curly Top (1-9)	Relative Maturity (1-7)
PR95-397	1781	2.7	2.0	3.0	4.3
95-8186C	1737	2.7	3.3	1.7	5.0
95-8184C	1731	5.0	4.0	1.3	4.3
UI-686	1648	2.7	4.3	2.3	4.7
OT9641-281-1	1642	3.3	2.0	1.7	4.0
H9678-21	1565	3.3	2.3	1.7	4.0
G-122	1391	3.3	5.7	1.3	6.7
I9566-45-6-1	1151	3.3	2.3	2.7	4.0
Cardinal	1125	3.7	3.7	2.0	3.7
PR95-400-5-1	1099	3.3	4.0	2.3	3.0
C92117	920	5.3	6.7	1.3	3.0
Thort	863	4.2	3.6	4.5	2.6
PR95-399-4	485	2.6	3.8	4.0	1.9
Mean	1377	3.5	3.7	2.1	4.1
LSD 5%	735	1.5	1.8	1.2	1.3
C.V.%	33	27.0	30.4	36.0	19.4

R9903: Roza 1999 Light Red Kidney Root Rot Trial.

Line	Yield lbs/A	100-seed wt. (g)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)	Desirability
H9659-21-1	2600	52.2	4.3	1.7	3.5	9
H9659-27-7	2152	42.4	2.8	3.0	2.0	3
H9659-25-2	1717	41.4	3.0	3.3	2.5	5
H9659-23-1	1681	40.6	3.8	4.5	3.0	6
H9659-27-10	1606	41.2	3.7	4.0	1.5	5
USWA-33	1606	47.0	3.0	2.7	3.0	4
H9667-42-2	1586	43.0	4.3	5.0	3.5	4
H9666-9	1380	46.4	2.8	3.5	3.5	5
Kardinal	1246	42.8	2.0	4.0	2.5	4
CELRK	1190	50.6	2.7	4.7	1.0	0
H9659-27-2	1095	37.0	3.3	4.0	2.5	4
H9666-1	1089	49.4	3.3	3.7	2.5	1
H9667-72-1	984	40.8	4.3	5.0	2.0	2
I9566-32-1-2-1	974	48.8	2.3	4.0	3.5	7
H9667-86-4	968	43.0	4.3	5.0	2.5	3
H9667-78-3	929	37.4	2.8	7.0	5.0	-3
USLK-3	876	47.2	3.3	4.3	5.0	0
H9659-11-4	801	37.4	2.3	5.0	1.5	1
Chinook- 2000	687	45.0	6.0	4.7	3.0	-1
H9667-42-11	677	39.0	3.0	5.7	3.0	1
IJR	657	32.6	6.3	7.0	4.0	0
USLK-2	582	46.2	3.3	4.3	5.0	0
H9667-65-12	581	47.6	3.8	5.5	6.5	1
H9667-72-4	550	44.2	3.8	7.5	6.0	-3
H9659-17-2	540	35.6	2.7	6.0	3.0	-2
USLK-1	513	49.8	3.3	4.5	4.5	-3

R9904: Roza 1999 Red Mex Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
88-310R	2703	4.7	3.0	4.3
NW-63	2579	3.3	2.0	5.3
R93-365	2145	5.0	2.7	3.3
UI-228	2145	4.0	2.7	4.7
OT9641-32-2	2099	5.3	4.0	5.3
Rufus	1984	3.3	3.0	6.3
UI-259	1849	4.7	3.0	4.7
UI-239	1618	4.0	4.7	5.0
R93-349	1567	4.7	4.0	6.0
Ember	1543	3.3	1.7	1.7
AC Earlired	1485	3.7	4.0	3.3
LB1-2110-28	1223	3.3	4.7	3.0
H9655-135-20	1203	6.0	4.0	5.3
R93-344	1195	4.3	4.0	6.0
R97-037	1116	5.7	5.7	5.3
LeBaron	1110	4.0	3.3	2.7
R97-030	907	3.7	4.7	3.3
R97-017	497	3.3	4.3	4.0
Mean	1609	4.2	3.6	4.4
LSD 5%	1009	2.1	2.8	2.1
C.V.%	38	29.9	46.8	29.0

The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9905: Roza 1999 Pink Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
Roza	2435	3.0	1.3	5.7
ROG312	2426	2.7	2.3	4.0
UI-537	2196	4.0	3.7	3.0
Z9760-23-1	1797	3.3	1.7	2.7
PR95-055-2	1463	3.3	2.7	4.3
VIVA	1386	3.7	4.3	2.3
89-1976-7	1349	4.0	3.7	4.0
Z9760-26-8	1319	3.0	2.0	4.0
Z9760-26-1	1309	4.0	1.7	2.0
L94C356	1224	4.3	3.0	2.7
93-677	1025	3.7	5.7	2.7
Z9760-23-6	996	3.3	2.3	2.7
Flamingo	988	3.3	2.3	1.0
Mean	1577	3.5	2.8	3.2
LSD 5%	1258	1.0	2.5	1.7
C.V.%	49	17.6	55.3	32.9

The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9906: Roza 1999 Pinto Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
Montrose	1995	3.3	3.3	5.0
Burke	1866	3.7	2.0	5.3
Kodiak	1759	4.0	3.1	6.0
PR95-121-1-1-1	1718	3.3	3.7	4.0
ISB-5893	1633	3.0	3.0	4.3
WN9803-8	1565	3.0	4.0	6.7
USPT-73	1426	4.3	3.7	4.3
VB-9582-2-PT	1297	3.3	2.7	2.0
93-246P	1251	3.7	3.0	3.0
Beldakmi-12	1223	3.0	1.7	3.7
VB94-145	1223	3.7	2.7	2.7
Beldakmi-11	1184	3.7	2.3	4.0
Chase	1177	2.7	3.3	3.7
89-980P	1158	4.0	3.3	3.0
92235	1140	3.3	2.3	3.0
OT9630-17	1099	2.7	4.0	3.0
Othello	1088	3.3	2.7	1.7
91-352P	1070	3.7	3.3	2.3
Topaz	933	3.3	3.0	2.0
Camino	889	2.7	2.0	2.0
94-995P	841	3.0	2.7	2.0
Pinyata	752	3.7	2.7	1.3
H9656-16-3	737	3.7	3.3	2.7
H9657-42-2	737	3.0	3.0	7.0

R9906: Roza 1999 Pinto Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
Mesa	737	5.3	5.7	6.3
Agassiz	698	3.0	4.7	1.0
Pintium	650	3.7	2.3	1.0
93-201	623	3.0	3.0	1.0
OT9639-4-10	573	4.3	4.3	4.7
Bill-Z	554	3.7	3.7	4.3
H9657-42-6	545	4.3	4.3	7.0
Elizabeth	493	4.7	4.7	3.3
OT9641-137-5	493	4.3	3.7	3.7
Z9760-4-7	492	3.7	3.7	5.3
H9661-11-4	421	3.0	3.0	5.0
UI-320	419	3.0	4.7	2.7
Buster	360	4.0	5.0	5.7
VB93-364	360	4.0	4.7	3.7
OT9636-24	310	3.7	4.3	2.3
AC-Pintoba	190	4.3	4.0	4.7
Z9760-2-8	181	3.3	3.3	5.7
Z9760-2-1	171	3.7	3.7	5.7
I9605-14-1	159	3.0	4.7	5.3
Mean	894	3.6	3.5	3.8
LSD 5%	995	1.5	1.5	1.4
C.V.%	65	25.0	25.5	22.7

R9906: Roza 1999 Pinto Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
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The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9908: Roza 1999 Black Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)
H9679-27-B	885	4.7	5.3
WN9803-24	850	3.7	4.3
H9679-27-9	826	2.7	3.0
Shiny-Crow	715	3.0	2.3
H9673-3	663	3.7	3.7
T-39	571	4.7	3.3
Shadow	517	4.0	3.3
H9664-26-2	497	4.0	2.7
H9664-55-2	464	4.0	3.0
UI-911	427	4.0	3.0
Panther	395	4.7	3.3
Midnight	299	5.7	4.7
I9606-6-B	268	3.0	3.3
Onyx	268	5.3	3.7
B95556	216	5.0	4.3
ICB-10-5-9	209	3.7	3.7
I9606-6-11	201	3.3	4.0
WN9803-43	194	3.7	3.0
ICB-10-5-B	131	4.0	5.0
I9365-31	94	3.3	3.7
Mean	434	3.8	3.9
LSD 5%	601	1.2	1.8
C.V.%	85	19.1	27.6

The 1-9 scores where by 1 = best and 9 = worst.

R9909: Roza 1999 Navy Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)
N94080	1236	7.0	6.0
ND91-076-01	1051	3.7	2.3
ND91-117-05-02	792	8.0	7.3
AC-Compass	706	4.7	2.3
USWA-50	608	4.3	2.7
ISB-1256	504	4.3	3.0
H9662-1	477	6.0	5.7
ISB-1814	305	6.3	7.7
Mackinac	286	5.7	4.7
H9662-4-6	280	5.3	5.0
Norstar	198	6.3	4.3
Vista	111	6.7	4.7
H9661-5	102	5.0	3.0
WN9803-104	89	5.3	5.3
Mean	473	5.8	4.9
LSD 5%	411	1.8	2.9
C.V.%	53	19.6	23.3

The 1-9 scores where by 1 = best and 9 = worst.

R9910: Roza 1999 CIAT materials Root Rot Trial.

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
SEA-10	2405	1.7	4.7	3.3	3.7
PR95-055-2	2261	3.0	3.0	3.3	2.7
OT9639-4-10	2112	3.3	3.7	3.0	2.7
VAX-1	1921	3.0	3.0	3.3	3.3
IAPAR-44	1855	2.0	2.7	3.3	5.3
USWA-33	1788	4.7	2.0	3.0	3.3
WAF-2	1777	3.7	5.7	5.7	1.7
VAX-2	1755	3.0	3.0	4.0	3.7
PEROLA	1735	2.3	4.0	3.3	6.0
SEA-14	1659	2.7	3.3	3.3	4.7
SEA-13	1635	2.7	5.7	5.0	2.3
AFR-666	1633	2.7	2.0	2.3	5.7
A-801	1628	3.7	3.0	4.0	4.0
MAM-13	1605	1.1	5.7	5.0	3.6
TURBO III	1604	2.7	2.7	2.7	5.0
EMP-135	1587	2.7	4.0	3.3	4.3
XAMEGO	1578	1.3	2.7	3.0	3.7
A-804	1524	3.0	2.7	2.7	6.7
Apore	1511	3.7	3.0	4.0	4.3
BRB-137	1467	2.7	2.7	4.3	5.7
XAN-91	1406	3.7	3.7	4.7	2.0
FEB-200	1363	3.0	4.0	4.7	5.7
A-807	1352	2.0	2.0	2.7	5.0
IPA-7	1347	4.7	3.7	4.7	6.0
SEA-11	1299	3.7	6.3	5.7	4.3
A-806	1291	1.3	3.0	2.7	3.7
DOR-500	1267	2.0	3.0	4.7	6.0
FEB-210	1230	1.7	3.3	4.0	4.0

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
FEB-209	1227	4.3	3.7	4.0	4.0
Expresso	1188	4.0	4.7	5.7	4.3
ICA-QUIMBAYA	1147	3.7	5.3	5.3	5.7
A-805	1136	4.0	3.3	3.3	4.3
ICA-PIJAO	1131	1.7	4.0	5.3	5.7
A-222	1105	2.0	3.3	3.0	4.7
A-802	1101	2.3	4.3	4.0	4.3
SEA-9	1101	3.7	5.3	5.0	5.3
A-21	1066	4.3	3.0	3.0	5.0
G-21212	1040	4.0	3.3	4.3	4.3
TLP-21	1022	3.7	2.7	5.3	3.7
SEA-5	988	3.7	6.3	5.3	4.3
VAX-5	964	3.0	5.7	4.7	5.3
BAT-304	948	2.7	3.7	3.3	2.7
BAT-93	887	2.7	3.3	5.7	5.3
VAX-6	887	3.0	3.0	4.0	4.3
A-803	870	2.7	3.3	4.0	5.0
BRB-103	852	1.7	7.3	7.0	5.0
Negro Veracruz	839	5.0	3.0	4.7	4.7
EMP-304	811	3.3	3.0	4.7	4.0
BRB-100	804	3.0	3.3	4.3	5.3
G-122	794	3.3	2.3	6.0	2.7
SEA-2	787	4.0	6.7	5.0	5.0
ICTA-OSTUA	774	3.3	3.0	3.3	3.0
A-25	726	1.7	3.7	2.7	6.0
DOR-474	702	2.3	5.3	6.0	6.3
XAN-309	698	3.3	4.7	5.0	4.7
G-18484	654	3.7	5.0	5.7	4.7
A-216	647	2.7	2.7	3.0	3.0

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
A-175	443	5.0	5.3	5.7	5.0
G-22241	355	5.0	2.3	6.0	5.3
Amendoin	299	5.3	3.0	6.3	6.0
ZAA-2	294	5.7	2.0	6.0	3.0
A-176	277	5.0	3.7	5.7	5.0
G-17341	262	7.7	5.3	6.7	2.3
XAN-263	242	4.0	4.0	4.7	6.3
VAX-3	214	3.3	4.7	5.7	5.3
WAF-9	144	4.7	7.3	7.3	6.3
VAX-4	17	3.7	3.3	6.0	5.3
Mean	1122	3.3	3.8	4.5	4.5
LSD 5%	916	2.1	1.5	1.8	1.7
C.V.%	50	38.4	24.1	24.5	23.5

The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9910: Roza 1999 CIAT materials Root Rot Trial.
(reps 2 & 3 only)

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
IAPAR-44	2681	2.0	2.5	3.5	5.0
PR95-055-2	2544	3.5	3.0	3.5	2.5
PEROLA	2436	2.5	4.5	3.5	6.0
TURBO III	2358	2.5	2.5	2.5	5.0
VAX-1	2318	3.5	3.5	3.5	3.0
AFR-666	2315	3.5	1.5	2.0	5.5
SEA-14	2315	3.5	3.0	3.0	4.0
A-801	2263	3.0	3.0	3.5	4.0
A-804	2250	3.5	2.0	3.0	7.0
USWA-33	2227	4.5	2.0	3.5	3.0
EMP-135	2220	2.5	4.0	4.0	4.5
Apore	2191	4.0	2.5	4.0	3.5
SEA-10	2178	1.5	4.5	4.0	4.0
SEA-13	2135	3.5	6.0	6.0	2.5
BRB-137	2122	2.5	2.5	4.5	5.5
WAF-2	2047	3.0	5.5	5.5	2.0
VAX-2	2044	3.0	3.5	4.5	3.0
XAMEGO	2034	1.5	2.5	3.0	3.5
A-807	2027	1.5	2.0	2.5	4.5
IPA-7	2021	4.5	4.0	5.0	6.0
OT9639-4-10	2014	4.0	4.0	3.5	2.5
FEB-200	1897	2.5	4.0	5.0	6.5
DOR-500	1880	2.5	2.0	5.0	6.0
FEB-209	1841	4.0	3.5	3.5	3.0
XAN-91	1808	4.5	3.5	5.0	1.0
A-806	1776	1.5	3.5	3.0	3.0
MAM-13	1724	1.2	7.0	6.5	5.4
A-805	1704	3.5	3.0	3.0	3.5

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
IAPAR-44	2681	2.0	2.5	3.5	5.0
FEB-210	1694	2.0	3.0	4.5	4.0
ICA-PIJAO	1664	1.0	4.0	5.0	5.5
ICA-QUIMBAYA	1655	3.5	5.5	5.0	5.5
A-222	1638	2.5	3.5	3.0	4.0
A-21	1599	4.5	2.5	3.0	4.0
G-21212	1524	4.5	3.0	4.0	5.0
TLP-21	1488	3.0	3.0	5.0	4.0
SEA-9	1485	2.5	5.0	5.5	5.5
VAX-5	1445	2.5	5.5	4.0	5.0
Expresso	1406	3.5	5.0	6.5	5.5
SEA-5	1373	3.5	6.0	6.0	3.5
BAT-93	1331	2.5	3.0	5.5	5.0
A-803	1305	3.0	3.5	4.5	4.5
VAX-6	1282	2.0	3.0	3.5	3.5
BRB-103	1279	2.0	7.5	7.0	4.5
A-802	1265	2.5	4.5	5.0	4.5
Negro Veracruz	1259	5.0	3.0	4.0	4.0
BAT-304	1246	3.0	3.0	4.0	3.0
BRB-100	1174	3.5	2.5	5.0	5.5
EMP-304	1158	3.5	3.0	5.0	4.0
SEA-11	1135	4.0	6.0	6.0	4.5
A-25	1089	1.5	4.0	3.0	5.5
SEA-2	1089	5.0	7.0	6.0	5.0
DOR-474	1053	2.5	6.0	6.5	6.5
XAN-309	1046	2.5	5.0	5.0	5.0
ICTA-OSTUA	1017	3.5	3.0	4.0	3.5
G-122	999	2.5	2.5	5.5	3.0

Line	Yield lbs/A	Root (1-9)	Emergence (1-9)	Early Seedling Vigor (1-9)	Relative Maturity (1-7)
IAPAR-44	2681	2.0	2.5	3.5	5.0
G-18484	981	3.5	4.5	5.0	4.0
A-216	893	3.0	2.5	3.0	2.5
A-175	664	5.0	5.5	5.5	4.0
G-22241	533	4.5	2.0	5.5	5.0
Amendoin	448	5.5	3.0	6.0	6.0
A-176	389	4.5	3.5	5.5	4.5
XAN-263	363	3.5	4.0	5.0	6.5
G-17341	311	7.5	5.0	6.5	2.5
VAX-3	307	3.0	5.5	6.0	5.0
ZAA-2	301	5.0	2.0	5.5	4.0
WAF-9	216	4.0	7.5	7.5	6.5
VAX-4	26	3.0	4.0	6.0	5.0
Mean	1506	3.2	3.8	4.6	4.4
LSD 5%					
C.V.%	37	40.2	22.8	22.5	19.5

The 1-7 and 1-9 scores where by 1 = best and 7 or 9 = worst.

R9911: Roza 1999 Snap Root Rot Trial.

Line	Yield lbs/A	Emergence (1-9)	Early Seedling Vigor (1-9)	Curly Top ¹ (1-9)	Curly Top ² (1-9)
OT9743-696-3	1986	4.7	2.3	2.7	4.7
OT9743-703-3	1862	3.7	2.3	1.3	2.0
OT9743-703-4	1840	4.0	2.7	3.7	4.0
Goldcrop	1516	7.0	8.0	1.7	2.3
OT9743-703-7	1506	4.3	4.7	2.0	3.0
OT9743-696-2	1197	5.0	5.0	3.7	5.3
OT9743-696-9	1188	3.7	5.0	3.3	5.3
OT9743-703-5	1167	5.0	6.7	4.3	5.0
OT9743-696-7	1070	4.7	6.0	3.3	5.3
OT9743-696-1	1036	5.0	4.3	2.3	3.0
OT9743-696-8	1031	4.0	5.7	2.7	4.0
OT9743-703-6	940	4.3	5.7	4.7	6.7
OT9743-703-1	804	5.0	4.7	3.7	5.0
Mean	1311	4.9	5.1	2.9	4.1
LSD 5%	779	1.4	2.2	1.4	1.9
C.V.%	36	17.6	27.2	28.9	28.1

The 1-9 scores where by 1 = best and 9 = worst.