

OT9960: Othello 1999 Dark Red & White Kidney bean advanced yield trial.

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
<u>Dark Red Kidneys</u>									
H9659-37-2	vine	2475	47.9	90	48	42	7.3	4.8	3.0
H9659-41-3	vine	2331	43.4	91	48	38	8.0	4.8	3.0
H9659-39-B	vine	2259	45.7	90	48	41	7.8	5.0	4.5
H9659-41-B	vine	2215	44.0	90	48	45	7.0	4.3	4.0
H9659-41-2	vine	2115	44.6	89	48	41	7.5	5.0	3.5
G-122	bush	2009	31.9	96	45	50	3.0	2.5	.
H9659-39-2	vine	2008	42.6	88	48	44	7.8	4.5	4.0
AC-Calmont	bush	1990	47.1	94	46	50	4.5	3.3	2.5
H9659-41-5	vine	1957	44.2	89	48	46	7.0	4.5	3.5
H9657-13	bush	1888	46.4	82	38	43	3.3	2.8	4.5
USWA-39	bush	1848	50.4	96	44	48	4.8	3.3	2.5
I9566-33-3-2-1	bush	1805	45.6	96	46	55	4.5	3.5	2.5
H9667-63-2	bush	1798	46.8	92	46	47	5.5	3.5	2.5
SVM-2242	bush	1784	43.6	88	40	42	2.5	3.0	2.5
H9667-68-7	bush	1734	41.0	90	45	42	7.5	5.5	3.0
Montcalm	bush	1720	50.2	96	45	49	4.5	4.3	2.0
USDK-4	bush	1704	48.7	96	44	47	3.5	3.5	2.5
H9667-56-9	vine	1694	42.5	94	48	48	3.3	3.3	2.5
RedHawk	bush	1655	45.4	91	43	47	4.5	3.8	2.0
H9667-45-3	vine	1543	40.6	90	44	47	4.3	3.3	3.0

OT9960: Othello 1999 Dark Red & White Kidney bean advanced yield trial.

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
<u>Dark Red Kidneys</u>									
USDK-5	bush	1542	49.3	90	42	50	4.5	3.8	3.0
OT9641-191-4	bush	1446	51.1	92	42	46	5.0	2.8	4.0
Drake	bush	1410	41.4	85	42	49	4.5	3.8	3.0
I9566-10-11-1-1	bush	1349	56.4	96	47	44	7.0	5.8	1.0
I9566-36-4-1	bush	1347	50.1	94	46	39	6.0	4.8	3.5
I9566-12-6-2	bush	1305	48.1	98	48	44	6.8	6.5	2.0
OT9641-191-3	bush	1245	49.4	90	42	42	4.5	2.5	3.5
I9566-36-7-1	bush	1166	53.8	98	46	50	7.3	5.3	3.0
H9667-59-2	bush	888	34.7	84	42	44	3.3	3.3	3.0
<u>White Kidneys</u>									
Beluga	bush	1892	48.2	94	43	50	4.8	3.0	2.5
USWK-6	bush	1796	51.2	93	43	45	7.5	4.8	2.5
Lassen	bush	1607	46.6	84	38	44	4.0	2.5	2.5
USWA-70	bush	1590	53.4	92	44	52	4.3	3.0	1.5
Mean		1727	46.2	91	44	46	5.4	3.9	
LSD 5%		498	4.0	2	2	7	1.3	1.2	
CV%		21	4.4	1	2	8	17.7	21.5	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst.

Seed appearances of 4 and 5 are marginal and outside the market class, respectively.

OT9961: Othello 1999 Small Red bean advanced yield trial

Line	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
UI-259	3190	35.0	95	46	39	8	3.0	4.8	1.5
UI-239	3119	32.5	92	48	36	9	5.0	5.5	3.0
UI-228	3073	34.4	94	48	45	9	5.0	5.5	2.0
Rufus	3015	32.5	98	46	44	9	3.5	4.5	2.0
88-310R	2951	31.4	90	44	36	9	3.3	4.5	2.5
LB1-2110-28	2830	36.2	89	44	46	6	3.5	4.8	1.5
NW-63	2786	32.1	94	42	34	8	3.5	5.0	3.0
R97-037	2727	35.7	95	49	56	2	5.3	5.3	1.0
H9655-135-20	2667	31.9	94	48	46	7	4.8	4.3	3.0
R97-017	2644	37.4	92	49	57	4	3.3	3.5	1.5
Ember	2556	34.9	84	43	30	7	3.0	3.0	2.5
OT9641-32-2	2545	34.3	91	48	45	7	4.3	5.0	2.0
R97-030	2528	34.1	92	50	52	5	6.3	5.0	2.0
LeBaron	2491	34.5	83	44	38	8	4.0	3.5	2.5
AC Earlired	2330	33.7	83	45	34	6	3.8	3.5	3.0
R93-344	2272	30.6	93	49	50	3	5.5	5.3	4.0
R93-365	2250	33.7	86	48	44	2	4.3	3.5	3.5
R93-349	2045	33.3	97	53	54	4	5.8	4.8	3.5
Mean	2667	33.7	90	47	44	6	4.3	4.5	
LSD 5%	579	3.1	3	3	13	2	1.4	1.0	
CV%	15	4.6	2	3	15	21	23.0	15.5	

The 1-5 and 1-9 scores where by 1=best and 5 or 9 =worst.

OT9962: Othello 1999 Light Red Kidney bean for advanced yield trial

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
H9659-21-1	vine	2795	49.2	95	48	42	5	8.0	6.0	1.5
H9667-86-4	vine	2794	45.9	92	48	47	6	6.5	4.3	3.0
H9666-9	bush	2590	53.9	86	43	48	2	2.5	2.3	2.5
H9659-27-7	vine	2559	47.3	92	49	44	6	7.8	5.3	2.0
H9667-65-12	bush	2514	44.8	94	46	47	4	7.2	5.5	2.0
H9659-23-1	vine	2267	39.4	83	48	48	6	7.5	5.5	2.5
H9667-42-2	vine	2264	47.1	92	49	55	4	6.0	6.0	2.5
H9666-1	bush	2254	53.4	89	41	50	1	3.3	3.0	3.0
H9659-13-4	vine	2240	40.3	85	48	48	2	4.0	3.8	2.5
H9659-25-2	vine	2216	44.7	90	50	52	5	6.3	4.3	3.0
I9566-32-1-2-1	vine	2183	48.3	92	49	46	8	4.0	3.0	2.5
H9667-42-11	vine	2119	46.4	88	48	50	4	4.8	4.0	2.5
Kardinal	bush	2102	47.3	87	46	54	1	2.3	2.8	3.5
H9667-78-3	bush	2071	42.5	88	42	49	2	6.0	4.5	3.0
USWA-33	bush	2030	52.8	86	44	45	1	3.0	2.5	3.0
USLK-1	bush	2022	49.8	86	38	43	1	2.8	3.3	3.0
H9659-27-2	vine	2016	40.7	87	48	52	4	6.5	4.5	2.5
H9659-13-5	vine	1949	38.5	85	48	46	2	4.0	4.3	2.5
USLK-2	bush	1937	48.8	86	39	44	2	3.0	2.8	3.5
IJR	vine	1897	37.5	90	50	47	4	4.0	6.0	.
H9659-23-12	vine	1800	45.4	88	49	50	6	7.3	4.8	2.5
CELRK	bush	1773	49.3	84	39	47	1	2.8	2.8	3.5
H9659-27-10	vine	1765	44.7	92	50	57	5	6.5	5.0	3.0

OT9962: Othello 1999 Light Red Kidney bean for advanced yield trial

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
H9659-9-3	vine	1748	39.4	85	48	42	4	4.0	4.8	2.5
H9667-72-4	vine	1676	42.4	88	48	48	4	4.3	3.8	2.5
H9667-72-1	vine	1664	41.5	86	48	48	4	4.0	4.5	2.5
Chinook-2000	bush	1651	50.1	92	42	50	1	6.5	5.0	2.5
USLK-3	bush	1582	47.9	94	42	51	1	3.0	3.0	2.0
H9659-11-7	vine	1376	41.1	84	48	45	2	3.3	4.3	3.0
H9659-17-2	vine	1335	37.6	88	50	47	4	3.5	3.8	3.0
H9659-11-4	vine	1124	40.4	86	48	48	2	4.0	4.8	3.0
I9566-38-5-1	bush	1054	48.3	88	40	46	1	3.0	3.3	3.5
Mean		1973	45.2	88	46	48	4	4.7	4.1	
LSD 5%		631	3.1	3	2	6	2	1.1	1.0	
CV%		23	3.4	2	2	6	32	17.1	17.5	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst

OT9963: Othello 1999 Pink bean advanced yield trial

Line	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
93-677	3317	33.6	85	40	38	5	2.8	5.3	3.0
Viva	3192	27.0	86	46	32	8	2.3	4.3	4.0
ROG312	3191	32.2	90	48	38	8	4.0	2.5	2.5
UI-537	3092	34.9	88	48	39	8	3.5	4.3	3.5
89-1976-7	3017	30.7	88	44	46	7	3.8	3.5	3.0
Roza	3016	32.7	96	48	40	9	2.8	2.5	1.0
Flamingo	2983	37.4	86	42	36	9	2.5	2.0	2.5
PR95-055-2	2902	38.0	93	50	46	6	4.3	4.5	2.0
Z9760-26-8	2845	26.8	95	51	41	8	2.3	4.3	4.0
Z9760-26-1	2606	27.6	91	50	40	9	3.3	4.5	3.5
L94C356	2553	31.4	80	45	36	5	1.8	2.3	3.0
Z9760-23-6	2469	30.2	91	48	38	8	5.3	4.0	2.5
Z9760-23-1	1893	27.3	89	48	37	9	2.5	2.8	3.0
Mean	2874	31.5	89	47	39	8	3.1	3.6	
LSD 5%	386	1.6	3	2	6	2	1.1	1.2	
CV%	10	2.5	2	2	8	11	24.6	24.1	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst.

OT9964: Othello 1999 Cranberry bean advanced yield trial

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
G-122	bush	2533	37.6	93	42	52	2	2.0	3.3	4.5
95-8184C	bush	2138	50.7	90	42	50	4	5.8	4.8	2.5
PR95-397	bush	2085	49.4	90	40	52	2	2.5	3.0	3.0
OT9641-281-1	bush	2068	54.7	89	39	47	6	5.0	4.5	2.0
95-8186C	bush	2031	59.3	92	43	53	6	4.8	4.0	2.5
UI-686	vine	2017	67.3	93	52	49	8	4.3	4.8	3.5
Cardinal	bush	1880	57.9	90	41	46	4	4.5	2.8	2.5
PR95-400-5-1	bush	1872	45.2	86	40	51	3	3.8	3.0	4.0
USCR-8	bush	1848	50.1	90	39	48	1	4.0	4.5	2.0
C92117	bush	1554	46.8	85	46	48	2	3.0	5.5	2.5
Thort	bush	1548	51.3	86	42	43	3	3.8	4.5	3.0
I9566-45-6-1	bush	1537	50.4	88	46	48	6	3.5	3.5	3.5
PR95-399-4	bush	1536	48.4	87	41	38	2	2.8	4.3	2.5
USCR-7	bush	1389	53.2	90	41	48	4	5.0	4.0	2.0
H9678-21	bush	1262	50.2	86	42	42	2	3.5	4.8	3.0
Mean		1844	51.5	90	42	48	4	3.9	4.1	
LSD 5%		364	2.3	2	2	7	1	1.1	1.0	
CV%		14	2.2	1	3	7	19	20.2	15.6	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst.

OT9965: Othello 1999 Great Northern bean advanced yield trial

Line	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
UI-465	3500	39.5	98	46	35	8	7.3	5.0	2.5
US-1140	3481	32.3	84	40	37	9	1.8	2.8	3.0
Matterhorn	3479	36.1	94	51	50	4	4.0	5.3	3.0
93-208G	3128	39.8	97	46	40	6	7.0	5.0	2.5
LB2113-3	3095	41.7	96	48	50	7	5.0	4.0	1.0
USWA-13	3054	43.0	98	50	44	8	4.0	3.3	1.0
OT9737-9-9	3051	38.6	94	50	46	2	5.0	5.0	3.0
Z9760-8-5	3033	33.1	98	52	52	4	6.3	5.5	3.0
OT9737-8-9	2923	33.1	92	48	54	2	3.0	3.5	3.0
BelMiNeb-3	2736	32.6	90	50	50	5	3.8	3.8	3.0
Weihing	2722	37.4	94	48	51	5	5.8	5.3	2.0
PR95-152-1-2-2	2642	30.0	97	50	52	3	5.0	6.5	3.5
PR95-152-1-2-10	2560	31.2	98	67	48	4	4.5	5.3	3.5
PR95-152-1-2-4	2237	29.8	99	52	54	3	5.5	6.8	3.5
Mean	2956	35.6	95	50	47	5	4.8	4.8	
LSD 5%	541	2.4	3	4	7	1	1.0	1.0	
CV%	13	3.4	2	13	8	13	15.4	15.7	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst.

OT9966: Othello 1999 Pinto bean advanced yield trial

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
H9657-42-2	vine	3435	37.7	94	52	72	2	4.5	4.5	1.5
Buster	vine	3360	37.2	92	48	47	5	2.5	4.3	3.0
89-980P	vine	3354	43.7	88	42	34	8	3.0	3.8	3.0
93-246P	vine	3347	37.7	87	43	38	6	3.0	3.3	3.0
H9657-42-6	vine	3317	35.5	96	53	64	1	5.3	6.3	3.5
USPT-73	vine	3197	42.7	90	44	36	5	4.3	3.8	2.5
Z9760-4-7	vine	3181	31.1	94	53	60	2	4.5	5.0	4.0
91-352P	vine	3086	39.9	88	48	32	9	3.3	3.3	2.5
H9656-16-3	vine	3062	34.8	90	44	48	4	2.8	4.5	3.0
Bill-Z	vine	3036	33.4	90	46	38	8	3.0	3.5	3.0
Montrose	vine	3024	35.3	86	48	38	9	2.5	2.5	2.5
Mesa	vine	3010	37.3	91	52	38	9	3.8	4.3	2.0
AC-Pintoba	vine	2975	38.1	92	50	46	5	2.5	3.3	4.0
Othello	vine	2974	38.1	86	42	37	4	3.5	3.5	2.5
Kodiak	vine	2931	39.7	92	50	48	6	3.3	3.0	2.5
OT9639-4-10	vine	2916	39.2	94	50	46	6	5.0	4.8	2.5
Burke	vine	2896	38.3	88	44	40	6	2.5	3.0	3.0
92235	vine	2819	37.7	86	44	34	5	2.3	2.0	3.0
Elizabeth	vine	2800	36.1	87	47	41	6	5.8	4.8	4.0
VB93-364	vine	2792	38.6	86	44	44	6	4.0	3.8	3.0
Z9760-2-8	vine	2721	34.0	94	53	50	3	3.0	4.8	3.5
ISB-5893	vine	2708	38.5	93	48	35	9	2.8	3.8	2.5
PR95-121-1-1-1	vine	2707	38.8	94	48	42	7	3.8	4.8	2.5
Z9760-2-1	vine	2702	32.5	94	53	50	3	4.0	5.0	4.0

OT9966: Othello 1999 Pinto bean advanced yield trial

Line	Growth habit	Yield lbs/A	100-seed wt.(g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Emergence (1-9)	Early seedling vigor(1-9)	Seed appearance (1-5)
OT9630-17	vine	2694	34.3	88	43	44	2	3.0	5.3	3.5
94-995P	vine	2684	39.3	89	41	40	9	2.5	2.0	3.0
UI-320	vine	2675	38.9	87	46	35	4	5.5	5.3	4.0
VB-92802-111A	bush	2662	39.9	83	40	43	2	2.5	3.5	4.0
OT9641-137-5	vine	2633	34.6	90	46	38	5	4.8	5.0	3.5
Beldakmi-11	vine	2627	42.0	91	47	48	5	5.0	3.8	3.0
Topaz	vine	2565	34.8	84	46	39	5	2.3	3.0	3.0
VB94-145	vine	2554	37.3	86	44	40	8	3.5	3.3	2.5
Pintium	bush	2531	38.6	81	42	41	1	3.3	4.3	3.5
Agassiz	bush	2465	40.2	85	46	36	6	5.0	3.5	2.5
VB-9582-2-PT	bush	2440	42.6	84	44	38	6	3.3	3.5	3.0
Beldakmi-12	vine	2429	39.7	92	48	50	4	6.8	5.5	3.0
93-201	bush	2415	39.3	84	47	36	5	3.0	2.8	2.0
Camino	bush	2335	38.8	84	45	42	4	3.0	2.5	4.0
Chase	vine	2295	31.7	89	50	40	9	2.5	4.5	4.0
H9661-11-4	vine	2255	38.4	93	52	60	2	3.3	4.8	2.5
OT9636-24	vine	2012	32.8	89	48	46	2	4.0	4.3	3.0
I9605-14-1	vine	1830	36.0	92	52	57	2	3.3	4.5	2.5
Early-Burke	vine	1286	35.6	92	50	42	3	4.3	7.0	3.0
Mean		2738	37.4	89	47	43	5	3.6	4.0	
LSD 5%		533	3.1	2	3	8	2	1.2	1.1	
CV%		14	4.1	1	3	9	18	24.0	20.1	

The 1-5 and 1-9 scores where by 1=best and 5 or 9=worst

OT99: Othello Black bean advanced yield trial

Line	Yield lbs/A	100-seed wt. (g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Early seedling vigor (1-9)
H9673-87	3577	22	105	53	33	3	2
B98311	3359	26	104	60	38	1	3
I9365-31	3359	25	100	60	33	5	2
MIDNIGHT	3217	21	107	60	53	2	3
B95204	3212	21	103	60	38	2	3
H9673-3	3189	20	100	53	43	3	3
UI911	3185	21	106	60	36	3	3
SHINY CROW	3177	24	100	53	30	4	2
T-39	3126	21	106	60	38	4	2
B95556	3070	22	100	60	43	1	3
H9679-27	3029	21	101	53	36	3	4
ICB10-5-14	3009	24	103	58	41	3	2
H9673-36	2927	20	104	53	41	4	4
ICB10-5-17	2923	21	99	60	36	2	3
I9606-6	2890	23	102	54	38	2	3
ICB10-5 BULK	2857	22	99	53	33	3	2
ICB10-5-11	2725	24	100	59	46	4	2
ONYX	2715	21	105	55	48	3	2
ICB10-5-9	2631	23	100	55	30	3	4
SHADOW	2594	24	98	53	28	2	4
OT9738-84-9	2532	20	99	54	33	2	5
OT9738-84-2	2474	22	97	53	36	2	5
H9653-29-13	2074	23	104	53	38	3	4
Mean	2949						
LSD 5%	523						
CV%	12						

OT99: Othello Navy bean advanced yield trial

Line	Yield lbs/A	100-seed wt. (g)	Harvest maturity days	Flowering days	Plant height (cm)	Lodging (1-9)	Early seedling vigor (1-9)
N98123	3441	18	100	61	48	2	3
ND91-171-05-02	3360	20	107	60	38	3	5
OT9630-171	2928	18	100	61	33	2	3
NORSTAR	2926	19	97	54	36	2	3
H9662-1	2869	19	97	59	36	2	4
ISB 1256	2820	21	102	54	38	2	4
N94080	2813	18	98	58	41	2	4
ND91-076-01	2812	19	99	61	56	1	4
VISTA	2778	20	107	63	38	4	3
ISB 1814	2660	21	105	54	41	3	5
OT9630-140	2641	20	102	54	30	2	3
H9662-4	2610	21	97	54	36	2	3
AC COMPASS	2605	23	98	54	33	3	4
Mackinac	2575	20	105	62	41	2	4
H9661-5	2566	23	101	61	38	2	3
I9605-4-2	2554	21	98	54	30	3	3
H9662-4-8	2544	23	100	59	33	2	4
H9662-4-6	2466	21	98	54	36	3	5
PR95-183-6-5-1	2422	23	100	54	41	3	3
H9662-4-5	2394	23	97	51	30	2	4
H9662-4-2	2199	21	97	59	30	3	4
H9662-4-1	2197	22	99	54	36	3	4
Mean	2678						
LSD 5%	553						
CV%	14						