

CHAPTER 7. HZPC AMERICAS CORPORATION VARIETY TRIAL, 2003

General Comments

A goal of this trial was to evaluate the production characteristics of early generation clones and advanced varieties from HZPC Americas Corporation in Florida. Many of these European lines have unique quality characteristics that could broaden the definition of “new” Florida potato beyond the standard Red LaSoda!

Planting Information

Planting Site	PSREU, Yelvington Farm, Hastings, FL
Planting Date	January 30, 2003
Vine Kill Date	May 14, 2003
Harvest Date	June 2, 2003
Season Length	104 days planting to vine kill; 123 days planting to harvest
Fertilizer Program	preplant, 100-43-86 lb/A; sidedress, 130-0-111 lb/A
Irrigation Program	seepage

Experimental Design

Number of Varieties	14
Number of Clones	14
Seed Tuber Type	See “Specific Comments” for mini- and standard tuber info.
Within Row Spacing	8 in (20 cm)
Between Row Spacing	40 in (102 cm)
Replications	3
Plot Size	5.3 ft (1.6 m)

Production Statistics

Early Vigor Ratings	40 days after planting
Highest Total Yield	Vivaldi (582 cwt/acre or 65.2 MT/ha)
Highest Marketable Yield	Vivaldi (489 cwt/acre or 54.8 MT/ha)
Best Appearance Rating	Ambra and Fabula (7.5, good to excellent)

Specific Comments

Note: Selections marked with an asterisk were grown from mini-tubers. All other selections were grown from normal, cut tubers.

LaChipper (MFX). *White.* LaChipper total and marketable tuber yields were 433 and 310 cwt/acre, respectively. Potato tuber skin color was white with a smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as 'mostly round' to 'round to oblong' with an eye depth of intermediate. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 8 to 10 inches. Vine type at full flower was rated as upright to spreading with a good canopy. Plant maturity at vine kill was rated as completely dead. Average specific gravity for LaChipper tubers was 1.065. Five percent of tubers were rated as misshaped at harvest. Five percent of tubers were rated in the rots and miscellaneous category due primarily to stem-end rot. Hollow heart was noted in 7% of tubers at harvest.

Adora (HZPC). *White.* Adora total and marketable tuber yields were 354 and 273 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was medium to dark yellow. Tuber shape was rated as 'mostly oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright to spreading with a fair canopy. Plant maturity at vine kill was rated as completely dead. Average specific gravity for Adora tubers was 1.073. Nine percent of tubers were rated as misshaped at harvest.

Ambra* (HZPC). *White.* Ambra total and marketable tuber yields were 367 and 268 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as 'mostly oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as good to excellent. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Ambra tubers was 1.049. Seventeen percent of tubers were rated in the rots and misc. category due primarily to stem-end rot.

Carrera* (HZPC). *White.* Carrera total and marketable tuber yields were 350 and 184 cwt/acre, respectively. Potato tuber skin color was buff with a smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as 'mostly oblong' to 'oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at vine kill was rated as yellow and dying. Average specific gravity for Carrera tubers was 1.056. Eight percent of tubers were rated as misshaped at harvest. Fourteen percent of tubers were rated in the rots and miscellaneous category due primarily to stem-end rot. Hollow heart was noted in 7% of tubers at harvest. Internal heat necrosis was noted in 18% of tubers at harvest.

Fabula (HZPC). *White.* Fabula total and marketable tuber yields were 522 and 418 cwt/acre, respectively. Potato tuber skin color was buff to white with a smooth to moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as 'mostly oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good to excellent. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as moderately senesced to yellow and dying. Average specific gravity for Fabula tubers was 1.057. Twelve percent of tubers were noted as growth cracked at harvest.

Hommage* (HZPC). *White.* Hommage total and marketable tuber yields were 427 and 267 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth to slightly netted texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Hommage tubers was 1.073. Twenty-one percent of tubers were rated as misshaped at harvest.

Platina (HZPC). *White.* Platina total and marketable tuber yields were 537 and 445 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as 'round to oblong' to 'mostly oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Platina tubers was 1.056. Seven percent of tubers were rated as growth cracked at harvest.

Red Pontiac* (HZPC). *Red.* Red Pontiac total and marketable tuber yields were 423 and 280 cwt/acre, respectively. Potato tuber skin color was red with a moderately smooth texture. Tuber flesh color was cream. Tuber shape was rated as 'round to oblong' with an eye depth of deep to intermediate. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Red Pontiac tubers was 1.058. Thirteen percent of tubers were rated as misshaped at harvest. Five percent of tubers were rated in the rots and miscellaneous category due primarily to stem-end rot. Hollow heart was noted in 13% of tubers at harvest.

Red Scarlet* (HZPC). *Red.* Red Scarlet total and marketable tuber yields were 369 and 244 cwt/acre, respectively. Potato tuber skin color was red with a moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as 'oblong' to 'oblong to long' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as completely dead. Average specific gravity for Red Scarlet tubers was 1.055. Twenty percent of tubers were rated as misshaped at harvest. Five percent of tubers were rated in the rots and miscellaneous category due primarily to stem-end rot.

Red Star* (HZPC). *Red.* Red Star total and marketable tuber yields were 417 and 315 cwt/acre, respectively. Potato tuber skin color was red with a smooth to moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'mostly oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Red Star tubers was 1.070. Ten percent of tubers were rated as misshaped at harvest. Internal heat necrosis was noted in 10% of tubers at harvest.

Rodeo* (HZPC). *Red.* Rodeo total and marketable tuber yields were 413 and 301 cwt/acre, respectively. Potato tuber skin color was red with a smooth to moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'oblong' to 'oblong to long' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Rodeo tubers was 1.067. Six percent of tubers were rated as misshaped at harvest.

Vivaldi (HZPC). *White.* Vivaldi total and marketable tuber yields were 582 and 489 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was medium yellow. Tuber shape was rated as 'mostly oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Vivaldi tubers was 1.063.

Yukon Gold (MFX). *White.* Yukon Gold total and marketable tuber yields were 402 and 278 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was medium to dark yellow. Tuber shape was rated as 'round to oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for Yukon Gold tubers was 1.073. Ten percent of tubers were rated as misshaped at harvest. Seven percent of tubers were rated as green at harvest.

RZ-91-2313 (HZPC). *White.* RZ-91-2313 total and marketable tuber yields were 571 and 318 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was light yellow. Tuber shape was rated as ‘oblong to long’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 8 to 10 inches. Vine type at full flower was rated as spreading with a good canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for RZ-91-2313 tubers was 1.058. Sixteen percent of tubers were rated as misshaped at harvest. Internal heat necrosis was noted in 7% of tubers at harvest.

RZ-92-298* (HZPC). *White.* RZ-92-298 total and marketable tuber yields were 144 and 92 cwt/acre, respectively. Potato tuber skin color was buff to white with a smooth to moderately smooth texture. Tuber flesh color was cream. Tuber shape was rated as ‘mostly oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at vine kill was rated as moderately senesced to yellow and dying. Average specific gravity for RZ-92-298 tubers was 1.048. Plants were noted as sensitive to metribuzin.

RZ-93-322* (HZPC). *White.* RZ-93-322 total and marketable tuber yields were 351 and 230 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was medium yellow. Tuber shape was rated as ‘mostly oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for RZ-93-322 tubers was 1.071. Twenty percent of tubers were rated as misshaped at harvest. Hollow heart was noted in 17% of tubers at harvest. Internal heat necrosis was noted in 7% of tubers at harvest.

RZ-94-18* (HZPC). *White.* RZ-94-18 total and marketable tuber yields were 383 and 123 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted texture. Tuber flesh color was medium to dark yellow. Tuber shape was rated as ‘oblong’ to ‘oblong to long’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as moderately senesced to yellow and dying. Average specific gravity for RZ-94-18 tubers was 1.066. Twenty-one percent of tubers were rated as misshaped at harvest.

RZ-94-83* (HZPC). *White.* RZ-94-83 total and marketable tuber yields were 471 and 189 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted texture. Tuber flesh color was medium to dark yellow. Tuber shape was rated as ‘oblong’ to ‘oblong to long’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as spreading to upright with a good canopy. Plant maturity at vine kill was rated as moderately senesced to yellow and dying. Average specific gravity for RZ-94-83 tubers was 1.058. Eighteen percent of tubers were rated as misshaped at harvest.

RZ-94-6487* (HZPC). *White.* RZ-94-6487 total and marketable tuber yields were 48 and 29 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted texture. Tuber flesh color was cream. Tuber shape was rated as ‘mostly oblong’ with an eye depth of shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was not available. Plant maturity at vine kill was rated as completely dead. Average specific gravity for RZ-94-6487 tubers was 1.055. Plants were noted as sensitive to metribuzin.

RZ-95-6643* (HZPC). *White.* RZ-95-6643 total and marketable tuber yields were 334 and 259 cwt/acre, respectively. Potato tuber skin color was white with a smooth texture. Tuber flesh color was cream. Tuber shape was rated as ‘mostly round’ to ‘round to oblong’ with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying. Average specific gravity for RZ-95-6643 tubers was 1.062. Five percent of tubers were rated as green at harvest.

RZD-91-1264* (HZPC). *White.* RZD-91-1264 total and marketable tuber yields were 257 and 174 cwt/acre, respectively. Potato tuber skin color was buff with a smooth to moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'oblong' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a poor to fair canopy. Plant maturity at vine kill was rated as yellow and dying. Average specific gravity for RZD-91-1264 tubers was 1.070.

RZD-92-2367* (HZPC). *White.* RZD-92-2367 total and marketable tuber yields were 415 and 306 cwt/acre, respectively. Potato tuber skin color was buff to white with a smooth to moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'oblong to long' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as 4 to 6 inches. Vine type at full flower was rated as spreading to upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying. Average specific gravity for RZD-92-2367 tubers was 1.065. Six percent of tubers were rated as misshaped at harvest. Six percent of tubers were rated as misshaped at harvest.

RZD-93-1200* (HZPC). *Red.* RZD-93-1200 total and marketable tuber yields were 503 and 396 cwt/acre, respectively. Potato tuber skin color was red with a smooth texture. Tuber flesh color was medium yellow. Tuber shape was rated as 'round to oblong' to 'mostly oblong' with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as good. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a fair to good canopy. Plant maturity at vine kill was rated as yellow and dying. Average specific gravity for RZD-93-1200 tubers was 1.061. Five percent of tubers were rated in the rots and miscellaneous category due primarily to stem-end rot.

RZD-94-2663* (HZPC). *White.* RZD-94-2663 total and marketable tuber yields were 394 and 283 cwt/acre, respectively. Potato tuber skin color was buff with a moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as 'oblong to long' with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant vigor (size) was rated as 2 to 4 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as yellow and dying to completely dead. Average specific gravity for RZD-94-2663 tubers was 1.066. Five percent of tubers were rated as misshaped at harvest. Five percent of tubers were rated as misshaped at harvest.

VDW-94-76* (HZPC). *White.* VDW-94-76 total and marketable tuber yields were 343 and 242 cwt/acre, respectively. Potato tuber skin color was buff to white with a moderately smooth texture. Tuber flesh color was medium yellow. Tuber shape was rated as 'oblong' with an eye depth of shallow. Overall external tuber appearance was noted as fair to good. Early plant vigor (size) was rated as plants less than 2 inches. Vine type at full flower was rated as upright with a fair canopy. Plant maturity at vine kill was rated as moderately senesced to yellow and dying. Average specific gravity for VDW-94-76 tubers was 1.065.

Table 23. Production statistics for HZPC potato selections.

Clone	Total	Marketable Yield ¹		Size						Size Class		Specific Gravity
	Yield (cwt/A)	(cwt/A)	% of standard	Distribution by Class (%) ²						Range (%)		
				C	B	A1	A2	A3	A4	A1 to A3	A2 to A3	
LaChipper	433	310	100	10	7	38	15	30	0	83	45	1.065
Adora	354	273	88	6	10	57	27	0	0	84	27	1.052
Ambra	367	268	86	4	4	51	39	2	0	92	41	1.049
Carrera	350	184	59	17	15	49	11	8	0	68	19	1.056
Fabula	522	418	135	1	3	29	36	30	0	95	66	1.057
Hommage	427	267	86	9	8	57	23	4	0	83	26	1.073
Platina	537	445	144	3	4	43	31	19	0	93	50	1.056
Red Pontiac	423	280	90	7	7	45	24	18	0	86	41	1.058
Red Scarlet	369	244	79	3	10	63	15	9	0	87	24	1.055
Red Star	417	315	101	7	6	71	17	0	0	87	17	1.070
Rodeo	413	301	97	7	11	72	6	3	0	82	10	1.067
Vivaldi	582	489	158	6	5	60	23	5	0	89	29	1.063
Yukon Gold	402	278	90	9	7	38	27	18	0	84	46	1.073
RZ-91-2313	571	318	102	13	16	59	11	0	0	70	11	1.058
RZ-92-298	144	92	30	39	18	43	0	0	0	43	0	1.048
RZ-93-322	351	230	74	7	8	60	24	0	0	85	24	1.071

Table 23 (con't). Production statistics for HZPC potato selections.

Clone	Total	Marketable Yield ¹		Size						Size Class		Specific Gravity
	Yield (cwt/A)	(cwt/A)	% of standard	Distribution by Class (%) ²						Range (%)		
				C	B	A1	A2	A3	A4	A1 to A3	A2 to A3	
RZ-94-18	383	123	40	25	31	44	0	0	0	44	0	1.066
RZ-94-83	471	189	61	20	29	51	1	0	0	51	1	1.058
RZ-94-1549	398	295	95	13	11	59	17	0	0	76	17	1.078
RZ-94-6487	48	29	9	13	23	64	0	0	0	64	0	1.055
RZ-95-6643	334	259	84	6	7	59	21	6	0	87	28	1.062
RZD-91-1264	257	174	56	10	21	70	0	0	0	70	0	1.070
RZD-92-2367	415	306	99	9	9	76	6	0	0	82	6	1.065
RZD-93-1200	503	396	128	6	7	70	18	0	0	88	18	1.061
RZD-94-2262	392	299	96	5	5	61	25	4	0	90	29	1.059
RZD-94-2663	394	283	91	7	15	75	3	0	0	78	3	1.066
VDW-94-76	343	242	78	12	16	72	0	0	0	72	0	1.065
<i>MSD</i> ³	91	93		ns	8	21	14	14	ns	15	16	0.004
<i>P Value</i>	<i>0.0001</i>	<i>0.0001</i>		<i>0.0754</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>	-	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>

¹Marketable Yield: size classes A1 to A3.

²Size classes: C = .5 to 1.5" , B = 1.5 to 1 7/8", A1 = 1 7/8 to 2.5", A2 = 2.5 to 3.25", A3 = 3.25 to 4", A4 = >4"

³Means separated within columns by Waller-Duncan's k-ratio t test.

Table 24. Plant growth and tuber characteristics of HZPC potato selections.

Clone	Plant Growth Characteristics				Tuber Characteristics ¹					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
LaChipper	96	7.0	6-9	1.0	1.5	8.0	8.0	2.5	5.0	6.5
Adora	88	4.3	8-5	1.0	3.0	7.0	7.5	4.0	6.0	6.0
Ambra	79	4.0	8	2.0	2.5	7.0	7.5	4.0	7.5	7.5
Carrera	88	4.0	7-8	3.0	3.0	7.0	8.0	4.5	6.5	7.0
Fabula	75	4.3	8	3.3	3.0	7.5	7.5	4.0	6.5	7.5
Hommage	100	5.3	6-9	2.3	3.5	7.0	6.5	5.0	6.5	5.5
Platina	79	5.0	8-5	2.7	3.0	7.5	7.0	3.5	6.0	7.0
Red Pontiac	88	5.0	9-6	2.0	2.0	3.0	7.0	3.0	4.0	4.5
Red Scarlet	88	4.7	9-6	1.0	3.0	3.0	7.0	5.5	7.5	5.0
Red Star	92	5.0	9-6	2.3	3.5	3.0	7.5	4.0	7.0	5.5
Rodeo	100	4.3	8-5	2.7	2.5	3.0	7.5	5.5	6.5	5.5
Vivaldi	100	5.0	9-6	1.7	4.0	7.0	7.5	4.0	6.5	7.0
Yukon Gold	92	5.3	8	1.3	4.5	7.0	7.5	3.0	5.5	5.5
RZ-91-2313	96	7.0	6	2.0	3.0	7.0	7.5	6.0	6.0	6.0
RZ-92-298	67	3.7	7-8	3.7	2.0	7.5	7.5	4.0	6.0	5.5
RZ-93-322	88	5.0	5-8	2.7	4.0	7.0	7.5	4.0	6.0	5.0

Table 24 (con't). Plant growth and tuber characteristics of HZPC potato selections.

Clone	Plant Growth Characteristics				Tuber Characteristics ¹					
	% Stand	Early Vigor	Vine Type	Vine Maturity	IFC	SC	ST	TS	ED	APP
RZ-94-18	88	4.0	9-6	3.7	4.5	7.0	6.0	5.5	6.5	4.0
RZ-94-83	96	5.0	8-5	3.0	4.0	3.0	7.5	7.0	7.0	5.5
RZ-94-1549	92	4.0	8-9	3.0	3.0	8.0	6.5	3.5	6.5	3.5
RZ-94-6487	100	4.0	<i>na</i>	1.0	2.0	7.0	6.0	4.0	7.0	5.0
RZ-95-6643	71	2.7	8	3.0	2.0	8.0	8.0	2.5	6.5	7.0
RZD-91-1264	96	2.3	7-8	3.0	3.5	7.0	7.5	5.0	6.5	6.5
RZD-92-2367	100	5.0	5-8	3.0	3.5	7.5	7.5	6.0	7.0	5.5
RZD-93-1200	88	4.0	8-9	3.0	4.0	3.0	8.0	3.5	7.5	7.0
RZD-94-2262	92	3.7	8	4.3	3.5	7.0	7.5	4.0	7.5	6.0
RZD-94-2663	96	4.0	8	2.3	3.5	7.0	7.0	6.0	6.5	5.0
VDW-94-76	92	3.0	8	3.7	4.0	7.5	7.0	5.0	7.0	5.5

¹ - See rating system outlined in Tables 1 and 2 (pages 8 and 9).

Table 25 (con't). External and internal tuber defects of HZPC potato selections.

Clone	% External Tuber Defects					% Internal Defects ²			
	Growth Cracks	Mis- shapen	Sun- burned	Rotten & misc.	Total Culls ¹	HH	BR	CRS	IHN
LaChipper	0	5	4	5	14	7	0	0	0
Adora	0	9	1	0	10	0	0	0	0
Ambra	0	0	4	17	20	3	0	0	3
Carrera	0	8	5	14	27	7	0	0	18
Fabula	12	3	0	2	17	0	0	0	0
Hommage	0	21	2	2	25	3	0	0	0
Platina	7	1	2	2	12	0	0	0	0
Red Pontiac	1	13	4	5	23	13	0	0	0
Red Scarlet	0	20	0	5	25	0	0	0	0
Red Star	0	10	0	3	13	0	0	0	10
Rodeo	0	6	0	5	11	0	0	0	0
Vivaldi	0	0	2	3	5	0	0	0	3
Yukon Gold	0	10	7	0	18	0	0	0	0
RZ-91-2313	0	16	3	3	21	0	0	0	7
RZ-92-298	0	0	0	0	0	0	0	0	0
RZ-93-322	1	20	0	1	23	17	0	0	7

Table 25 (con't). External and internal tuber defects of HZPC potato selections.

Clone	% External Tuber Defects					% Internal Defects ²			
	Growth Cracks	Mis-shapen	Sun-burned	Rotten & misc.	Total Culls ¹	HH	BR	CRS	IHN
RZ-94-18	0	21	1	4	26	0	0	0	0
RZ-94-83	1	18	0	4	23	0	0	0	0
RZ-94-1549	0	0	3	0	3	0	0	0	0
RZ-94-6487	0	0	0	0	0	0	0	0	0
RZ-95-6643	0	3	5	3	10	0	0	0	0
RZD-91-1264	0	1	0	3	4	0	0	0	0
RZD-92-2367	0	6	1	2	9	0	0	0	3
RZD-93-1200	3	1	1	5	10	0	0	0	0
RZD-94-2262	4	6	1	3	14	0	0	0	0
RZD-94-2663	0	5	1	2	8	0	0	0	0
VDW-94-76	0	2	0	0	2	0	0	0	0
<i>MSD</i> ³	4	12	4	9	15	13	ns	ns	11
<i>P Value</i>	0.0001	0.0001	0.0004	0.0040	0.0001	0.0379	-	-	0.0144

¹Percent of Total Yield. Total culls include the sum of growth cracks, mishapen, sunburned and rotten/misc.

²Percent tubers; HH, hollow heart; BR, brown rot; CRS, corky ring spot; IHN, internal heat necrosis.

³Means separated within columns by Waller-Duncan's k-ratio t test.

