

Round White Fresh Market Potato Variety Trial, 2001

General Comments:

One goal of the Round White Fresh Market Variety trial is to find a round white potato that has better quality and production characteristics than La Chipper. In addition, the development of “specialty” potatoes that can expand the marketable varieties produced in Florida is a priority. Many established varieties were included in the trial for 2001. They were included to provide a baseline for the new numbered clones.

Planting Site:	Hastings REC, Yelvington Farm
Planting Date:	February 15, 2001
Harvest Date:	May 29, 2001
Season Length:	103 days
Replications:	4
Plot Size:	20 ft
Row Spacing:	12 inches in-row, 40 inches between-row
Fertilizer:	preplant, 168-24-144 lb/A; sidedress, 98-14-84 lb/A
Number of Varieties:Clones:	34:19
Early Plant Size (Early Vigor):	39 days after planting
Highest Total Yield:	Platina (477 cwt/acre)
Highest Marketable Yield:	Platina (446 cwt/acre)
Best Overall Tuber Appearance:	La Chipper (6.3), Eva (NY103) (7.2), B1801-6 (6.3)

Specific Comments:

La Chipper (MFX). This is the standard white skinned fresh market potato grown in Florida. It was used as a standard in this trial for comparison with all other varieties and clones. Total and marketable yield were 335 and 303 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth, texture. Tuber flesh color was white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for La Chipper tubers was 1.072.

Adora (HZPC). Total and marketable yield were 186 and 163 cwt/acre, respectively. Potato tuber skin color was white to cream with a moderately smooth texture. Tuber flesh color was cream to 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as decumbent with a fair canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Adora tubers was 1.058. Heat sprouts were noted with this variety at harvest. This potato has a nice, uniform barrel shape tuber.

Atlantic (MFX). This is the standard chipping potato variety grown in Florida. It is included for comparison of production information. Total and marketable yield were 335 and 313 cwt/acre, respectively. Potato tuber skin color was tan to buff with a russet to netted texture. Tuber flesh color was white to cream flesh. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Atlantic tubers was 1.082.

Amandine (MFX). Total and marketable yield were 183 and 104 cwt/acre, respectively. Potato tuber skin

color was slightly netted to moderately smooth, white Tuber flesh color was light yellow flesh. Tuber shape was rated as oblong to long to mostly long with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a fair canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Amandine tubers was 1.059. Heat sprouts were noted with this variety at harvest.

Andover (MFX). Total and marketable yield were 216 and 205 cwt/acre, respectively. Potato tuber skin color was netted to slightly netted, tan to buff Tuber flesh color was white flesh. Tuber shape was rated mostly round with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as upright with a poor canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Andover tubers was 1.074. A higher than normal occurrence of scab was noted with this variety at harvest.

Bydand (HZPC). Total and marketable yield were 310 and 281 cwt/acre, respectively. Potato tuber skin color was slightly netted, tan to buff Tuber flesh color was white to cream flesh. Tuber shape was rated as oblong to mostly oblong with an eye depth of deep to intermediate. Overall external tuber appearance was noted as fair to good. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellowing and dying to completely dead. Average specific gravity for Bydand tubers was 1.071. Heat sprouts were noted with this variety at harvest.

Caesar (HZPC). Total and marketable yield were 255 and 224 cwt/acre, respectively. Potato tuber skin color was tan to buff with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as oblong to mostly oblong with an eye depth of shallow. Overall external tuber appearance was noted as fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Caesar tubers was 1.063. Heat sprouts were noted with this variety at harvest. Caesar is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Caesar at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Cobbler (MFX). Total and marketable yield were 268 and 231 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as mostly round with an eye depth of intermediate. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellowing and dying to completely dead. Average specific gravity for Cobbler tubers was 1.069. Heat sprouts were noted with this variety at harvest.

Conestoga (MFX). Total and marketable yield were 282 and 258 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair to good canopy. Plant maturity at harvest was rated as yellowing and dying to completely dead. Average specific gravity for Conestoga tubers was 1.077.

Divina (HZPC). Total and marketable yield were 435 and 374 cwt/acre, respectively. Potato tuber skin color was white with pink eyes and a slightly netted to moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Divina tubers was 1.060. Heat sprouts were noted with this variety at harvest. Divina is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Divina at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Eva (NY103) (MFX). Total and marketable yield were 344 and 320 cwt/acre, respectively. Potato tuber skin color was white with a moderately smooth texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of shallow. Overall external tuber appearance was noted as good. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a fair to good canopy. Plant maturity at harvest was rated as yellowing and dying. Average specific gravity for Eva tubers was 1.073.

Fabula (MFX). Total and marketable yield were 242 and 219 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 inches or less. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Fabula tubers was 1.053. A higher than normal occurrence of scab was noted with this variety at harvest. Fabula is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Fabula at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Goldrush (MFX). Total and marketable yield were 241 and 187 cwt/acre, respectively. Potato tuber skin color was brown with a moderately russet to light russet texture. Tuber flesh color was white. Tuber shape was rated as oblong to long with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair canopy. Plant maturity at harvest was rated as yellowing and dying to completely dead. Average specific gravity for Goldrush tubers was 1.065. Heat sprouts were noted with this variety at harvest.

Green Mountain (MFX). Total and marketable yield were 241 and 205 cwt/acre, respectively. Potato tuber skin color was buff to white with a netted to slightly netted texture. Tuber flesh color was cream to white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair to good canopy. Plant maturity at harvest was rated as yellowing and dying to completely dead. Average specific gravity for Green Mountain tubers was 1.071. Heat sprouts and scab were noted with this variety at harvest.

Kanona (MFX). Total and marketable yield were 293 and 265 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. 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 size was rated between 8 to 10 inches. Plant type at full flower was scored as spreading with a fair canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Kanona tubers was 1.068.

Katahdin (MFX). Total and marketable yield were 323 and 279 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. 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 size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Katahdin tubers was 1.066. Flat tubers were noted with this variety at harvest.

Katahdin (USDA). Total and marketable yield were 304 and 253 cwt/acre, respectively. Potato tuber skin color was buff to white with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Katahdin tubers was 1.069. Flat tubers were noted with

this variety at harvest.

Kennebec (MFX). Total and marketable yield were 396 and 340 cwt/acre, respectively. Potato tuber skin color was buff to white with a moderately smooth texture. Tuber flesh color was white. 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 size was rated between 2 inches or less. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Kennebec tubers was 1.068. Flat tubers were noted with this variety at harvest.

Langlade (MFX). Total and marketable yield were 272 and 227 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as mostly oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Langlade tubers was 1.069. Flat tubers were noted with this variety at harvest.

Mondial (HZPC). Total and marketable yield were 319 and 270 cwt/acre, respectively. Potato tuber skin color was tan with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as oblong to mostly oblong with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Mondial tubers was 1.061. Heat sprouts were noted with this variety at harvest. Mondial is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Mondial at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Morning Gold (HZPC). Total and marketable yield were 294 and 265 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted to moderately smooth texture. Tuber flesh color was light to medium yellow. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Morning Gold tubers was 1.065. Heat sprouts were noted with this variety at harvest. Morning Gold is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Morning Gold at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Norwis (MFX). Total and marketable yield were 311 and 270 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was cream to 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 poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Norwis tubers was 1.062. Flat tubers were noted with this variety at harvest.

Pike (MFX). Total and marketable yield were 324 and 309 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant size was rated as plants just emerged and leaves open. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Pike tubers was 1.078. Flat tubers were noted with this variety at harvest.

Platina (HZPC). Total and marketable yield were 477 and 446 cwt/acre, respectively. Potato tuber skin

color was white to cream with pink eyes and a slightly netted texture. Tuber flesh color was cream to light 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Platina tubers was 1.058. Flat tubers were noted with this variety at harvest. Platina is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Platina at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Reba (NY87) (MFX). Total and marketable yield were 180 and 154 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate. Overall external tuber appearance was noted as fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Reba tubers was 1.070. Scab was noted with this variety at harvest.

Sebago (MFX). Total and marketable yield were 324 and 297 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted texture. Tuber flesh color was white to cream. 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 fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Sebago tubers was 1.063. Sebago is a very good eating potato with great flavor.

Shepody (MFX). Total and marketable yield were 203 and 148 cwt/acre, respectively. Potato tuber skin color was white with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as oblong to mostly oblong with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Shepody tubers was 1.078. Heat sprouts were noted with this variety at harvest.

Snowden (MFX). Total and marketable yield were 421 and 391 cwt/acre, respectively. Potato tuber skin color was tan with a netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Snowden tubers was 1.077.

Snowden (USDA). Total and marketable yield were 433 and 417 cwt/acre, respectively. Potato tuber skin color was tan with a russet to netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Snowden tubers was 1.080.

Superior (MFX). Total and marketable yield were 216 and 199 cwt/acre, respectively. Potato tuber skin color was buff to white with a netted to slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as decumbent with a good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Superior tubers was 1.077. Scab was noted with this variety at harvest.

Superior (USDA). Total and marketable yield were 151 and 131 cwt/acre, respectively. Potato tuber skin color was buff with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was

noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as decumbent with a good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Superior tubers was 1.076.

Vivaldi (HZPC). Total and marketable yield were 257 and 219 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted to moderately smooth texture. Tuber flesh color was light yellow flesh. Tuber shape was rated as oblong to mostly oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as spreading to upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Vivaldi tubers was 1.067. Heat sprouts were noted with this variety at harvest. Vivaldi is a high nitrogen efficient variety that may not have produced optimally at the nitrogen rate used in this variety trial. A separate trial with Vivaldi at lower nitrogen rates was conducted and the results may better represent the growth and production of this variety.

Yukon Gold (MFX). Total and marketable yield were 325 and 277 cwt/acre, respectively. Potato tuber skin color was white to cream with pink eyes and a slightly netted to moderately smooth texture. Tuber flesh color was light to medium 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a fair canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for Yukon Gold tubers was 1.078. Flat tubers were noted with this variety.

Yukon Gold (USDA). Total and marketable yield were 267 and 237 cwt/acre, respectively. Potato tuber skin color was white to cream with pink eyes and a slightly netted to moderately smooth texture. Tuber flesh color was light to medium yellow flesh. 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 size was rated between 2 to 4 inches. Plant type at full flower was scored as upright with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Yukon Gold tubers was 1.078. Flat tubers were noted with this variety.

AF2079-7 (UM). Total and marketable yield were 139 and 120 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair to good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for AF2079-7 tubers was 1.065.

AF2086-18 (UM). Total and marketable yield were 173 and 152 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as mostly round with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair to good. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as decumbent to spreading with a poor canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for AF2086-18 tubers was 1.072.

AF2135-1 (UM). Total and marketable yield were 370 and 307 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted to moderately smooth texture. Tuber flesh color was white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading to upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for AF2135-1 tubers was 1.068. Flat tubers with heavy scab were noted with this clone.

B1806-1 (USDA). Total and marketable yield were 237 and 198 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted 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 size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1806-1 tubers was 1.070.

B1826-1 (USDA). Total and marketable yield were 293 and 244 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 8 to 10 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as completely dead. Average specific gravity for B1826-1 tubers was 1.065. Heat sprouts and flat tubers were noted with this clone.

B1870-3 (USDA). Total and marketable yield were 284 and 252 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a fair to good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1870-3 tubers was 1.058. Heat sprouts and scab were noted with this clone.

B1870-17 (USDA). Total and marketable yield were 297 and 264 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1870-17 tubers was 1.062.

B1873-4 (USDA). Total and marketable yield were 331 and 283 cwt/acre, respectively. Potato tuber skin color was tan to buff with a netted to slightly netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1873-4 tubers was 1.071. Heat sprouts were noted with this clone.

B1880-4 (USDA). Total and marketable yield were 301 and 269 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as spreading to upright with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1880-4 tubers was 1.066.

B1880-6 (USDA). Total and marketable yield were 190 and 157 cwt/acre, respectively. Potato tuber skin color was tan with a netted texture. Tuber flesh color was white. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 2 to 4 inches. Plant type at full flower was scored as decumbent with a fair to good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1880-6 tubers was 1.072.

B1919-9 (USDA). Total and marketable yield were 286 and 242 cwt/acre, respectively. Potato tuber skin color was tan with a netted texture. Tuber flesh color was white. Tuber shape was rated as oblong to oblong to long with an eye depth of shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for B1919-9 tubers was 1.073. Heat sprouts and flat tubers were noted with this clone.

Capc10 (Canagrico). Total and marketable yield were 357 and 317 cwt/acre, respectively. Potato tuber

skin color was buff with a slightly netted texture. Tuber flesh color was white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a fair to good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Capc10 tubers was 1.071.

Capc15 (Canagrigo). Total and marketable yield were 347 and 295 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. 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 size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Capc15 tubers was 1.069.

Capc20 (Canagrigo). Total and marketable yield were 381 and 351 cwt/acre, respectively. Potato tuber skin color was buff with a slightly netted to moderately smooth texture. Tuber flesh color was cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as upright with a good canopy. Plant maturity at harvest was rated as moderately mature to yellow and dying. Average specific gravity for Capc20 tubers was 1.079.

Capc25 (Canagrigo). Total and marketable yield were 176 and 156 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white. 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 size was rated between 6 to 8 inches. Plant type at full flower was scored as decumbent to spreading with a fair canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for Capc25 tubers was 1.077.

MSE149-5Y (MSU). Total and marketable yield were 287 and 253 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted texture. Tuber flesh color was cream to light yellow. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for MSE149-5Y tubers was 1.071.

MSG274-3 (MSU). Total and marketable yield were 303 and 240 cwt/acre, respectively. Potato tuber skin color was white to cream with a slightly netted to moderately smooth texture. Tuber flesh color was cream. Tuber shape was rated as oblong with an eye depth of shallow to very shallow. Overall external tuber appearance was noted as poor to fair. Early plant size was rated between 6 to 8 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for MSG274-3 tubers was 1.076.

NY102 (Cornell). Total and marketable yield were 330 and 303 cwt/acre, respectively. Potato tuber skin color was buff to white with a slightly netted to moderately smooth texture. Tuber flesh color was white to cream. Tuber shape was rated as round to oblong with an eye depth of intermediate to shallow. Overall external tuber appearance was noted as fair. Early plant size was rated between 4 to 6 inches. Plant type at full flower was scored as spreading with a good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for NY102 tubers was 1.080.

SC8801-2 (UM). Total and marketable yield were 309 and 264 cwt/acre, respectively. Potato tuber skin color was white with a slightly netted texture. Tuber flesh color was white. 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 size was rated between 2 inches or less. Plant type at full flower was scored as upright with a fair to good canopy. Plant maturity at harvest was rated as yellow and dying to completely dead. Average specific gravity for SC8801-2 tubers was 1.066.

Florida Table 5. White Fresh Market Potato Variety Trial. Yield, marketable yield, percentage of yield by grade, size distribution and specific gravity of white-skinned fresh market clones grown at Hastings, FL. - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield ¹		Size Distribution by Class (%) ²					Size Distribution (%)		Specific Gravity
		(cwt/A)	percent of standard	1	2	3	4	5	2 to 4	3 to 4	
Season-103 days											
La Chipper	335	303	100	2	36	39	21	2	96	60	1.072
Adora	186	163	54	10	79	7	4	0	90	11	1.058
Atlantic (MFX)	335	313	103	2	21	46	31	1	98	76	1.082
Atlantic (USDA)	270	250	82	2	31	44	23	0	98	66	1.083
Amandine	183	104	34	39	60	0	1	0	61	1	1.059
Andover	216	205	68	2	60	27	11	0	98	38	1.074
Bydand	310	281	93	6	72	22	1	0	94	22	1.071
Caesar	255	224	74	10	74	14	1	0	90	15	1.063
Cobbler	268	231	76	3	36	39	23	0	97	62	1.069
Conestoga	282	258	85	2	37	47	14	1	97	60	1.077
Divina	435	374	123	5	60	26	6	2	93	33	1.060
Eva (NY103)	344	320	106	3	33	37	26	0	97	63	1.073
Fabula	242	219	72	3	31	44	23	0	97	67	1.053
Goldrush	241	187	62	13	67	14	6	0	87	20	1.065
Green Mountain	241	205	68	7	51	24	17	1	92	41	1.071
Kanona	293	265	87	1	21	35	42	1	98	77	1.068
Katahdin (MFX)	323	279	92	3	28	36	33	0	97	69	1.066
Katahdin (USDA)	304	253	83	2	38	41	18	0	98	59	1.069
Kennebec	396	340	112	3	29	37	29	3	94	65	1.068
Langlade	272	227	75	5	39	40	16	0	95	56	1.069
Mondial	319	270	89	11	70	14	5	0	89	19	1.061
Morning Gold	294	265	88	5	67	25	3	0	95	28	1.065
Norwis	311	270	89	2	28	41	29	0	98	70	1.062
Pike	324	309	102	2	29	39	29	0	98	69	1.078
Platina	477	446	147	2	32	42	24	0	98	66	1.058

Florida Table 5 (cont'd). White Fresh Market Potato Variety Trial. Yield, marketable yield, percentage of yield by grade, size distribution and specific gravity of white-skinned fresh market clones grown at Hastings, FL. - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield ¹		Size Distribution by Class (%) ²					Size Distribution (%)		Specific Gravity
		(cwt/A)	percent of standard	1	2	3	4	5	2 to 4	3 to 4	
Season-103 days											
Reba (NY87)	180	154	51	8	64	21	6	0	92	28	1.070
Sebago	324	297	98	3	40	40	17	1	96	56	1.063
Shepody	203	148	49	12	60	21	8	0	88	28	1.078
Snowden (MFX)	421	391	129	2	36	45	17	0	98	62	1.077
Snowden (USDA)	433	417	137	2	39	45	14	0	98	59	1.080
Superior (MFX)	216	199	66	5	80	13	2	0	95	15	1.077
Superior (USDA)	151	131	43	11	77	12	0	0	89	12	1.076
Vivaldi	257	219	72	11	73	12	4	0	89	16	1.067
Yukon Gold (MFX)	325	277	91	2	37	42	19	1	97	61	1.078
Yukon Gold (USDA)	267	237	78	4	38	40	18	0	96	58	1.077
AF2079-7	139	120	40	7	72	17	4	0	93	21	1.065
AF2086-18	173	152	50	2	36	40	23	0	98	63	1.072
AF2135-1	370	307	101	3	37	35	21	3	94	56	1.068
B1801-6	237	198	65	4	38	40	19	0	96	59	1.070
B1826-1	293	244	81	5	37	38	20	0	95	58	1.065
B1870-3	284	252	83	4	52	33	10	0	96	43	1.058
B1870-17	297	264	87	5	43	36	16	0	95	51	1.062
B1873-4	331	283	93	7	71	21	1	0	93	21	1.071
B1880-4	301	269	89	4	40	43	14	0	96	57	1.066
B1880-6	190	157	52	8	60	29	3	0	92	32	1.072
B1919-9	286	242	80	7	69	17	3	3	90	21	1.073
Cape10	357	317	104	4	59	27	11	0	96	38	1.071
Cape15	347	295	97	3	43	37	17	0	97	54	1.069
Cape20	381	351	116	4	38	41	17	0	96	58	1.079
Cape25	176	156	51	8	73	18	1	0	92	19	1.077

Florida Table 5 (cont'd). White Fresh Market Potato Variety Trial. Yield, marketable yield, percentage of yield by grade, size distribution and specific gravity of white-skinned fresh market clones grown at Hastings, FL. - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield ¹		Size Distribution by Class (%) ²					Size Distribution (%)		Specific Gravity
		(cwt/A)	percent of standard	1	2	3	4	5	2 to 4	3 to 4	
Season-103 days											
MSE149-5Y	287	253	84	3	41	44	12	0	97	55	1.071
MSG274-3	303	240	79	18	76	4	2	0	82	6	1.076
NY102	330	303	100	4	64	29	3	0	96	33	1.080
SC8801-2	309	264	87	4	38	41	17	0	96	59	1.066
<i>LSD</i> ³	<i>165</i>	<i>155</i>		<i>8.8</i>	<i>30.5</i>	<i>24.4</i>	<i>25.7</i>	<i>ns</i>	<i>9.4</i>	<i>33.2</i>	<i>0.008</i>
<i>P Value</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>0.1534</i>	<i>0.0001</i>	<i>0.0001</i>	<i>0.0001</i>

Planted on Feb. 15, 2001, fertilizer rate was 168-24-144/A plus 98-14-84/A sidedressed, harvested on May 29, 2001.

¹ - Marketable Yield: size classes 2 to 4

² - Size classes: 1 = <1 7/8", 2 = 1 7/8 to 2.5", 3 = 2.5 to 3.25", 4 = 3.25 to 4", 5 = >4"

³ - Means separated within columns by Tukey's Studentized Range (HSD) Test.

Florida Table 6. White Fresh Market Potato Variety Trial. Yield, vine maturity, tuber characteristics, and internal defects of white-skinned fresh market potato clones grown at Hastings, FL - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield (cwt/A)	Vine Maturity ¹	Tuber Characteristics ¹						Internal Defects ²			
				IFC	SC	ST	TS	ED	APP	HH	BR	CRS	INT
La Chipper	335	303	1.6	1.0	7.3	7.7	2.7	5.3	6.3	0	0	0	0
Adora	186	163	1.0	2.3	8.3	8.0	5.7	6.3	5.7	0	0	0	0
Atlantic (MFX)	335	313	2.1	1.7	6.3	5.7	3.0	6.3	4.0	0	0	0	15
Atlantic (USDA)	270	250	1.9	1.3	7.3	6.0	3.3	5.7	4.0	0	0	0	5
Amandine	183	104	1.0	3.0	8.0	7.7	6.7	6.7	4.3	0	0	0	0
Andover	216	205	1.0	1.0	6.3	6.3	2.0	6.0	5.0	0	0	0	0
Bydand	310	281	2.0	1.3	7.7	7.0	4.7	4.7	5.7	0	0	0	0
Caesar	255	224	4.5	2.3	8.3	7.0	4.3	7.0	5.0	0	0	0	0
Cobbler	268	231	1.3	1.0	7.3	7.7	2.3	5.0	4.7	0	0	0	15
Conestoga	282	258	1.6	1.3	6.7	6.3	3.0	5.3	5.0	0	0	0	0
Divina	435	374	4.0	2.7	8.0	7.3	3.3	6.3	3.7	0	0	5	0
Eva (NY103)	344	320	2.8	1.0	8.0	8.0	3.3	7.0	7.2	0	0	0	0
Fabula	242	219	3.5	2.3	7.7	7.3	3.0	5.3	4.3	0	0	0	0
Goldrush	241	187	1.3	1.0	5.0	3.7	6.0	6.0	4.0	0	0	0	0
Green Mountain	241	205	2.0	1.3	7.3	6.3	3.3	4.7	3.3	0	0	0	0
Kanona	293	265	3.5	1.0	7.7	7.3	3.0	4.7	4.0	0	0	0	0
Katahdin (MFX)	323	279	2.6	1.3	7.7	7.3	3.3	5.7	5.3	0	0	0	10
Katahdin (USDA)	304	253	2.3	1.0	7.0	6.3	3.3	5.3	4.3	0	0	0	5
Kennebec	396	340	3.3	1.0	7.7	8.0	4.0	5.3	5.3	0	0	5	5
Langlade	272	227	2.3	1.0	6.3	6.3	4.0	6.7	4.3	0	0	0	0
Mondial	319	270	2.5	1.7	6.0	6.7	4.7	7.0	4.3	0	0	0	5
Morning Gold	294	265	2.0	3.0	8.3	7.3	3.3	5.3	4.7	0	0	0	0
Norwis	311	270	1.6	2.3	6.3	6.7	3.7	6.3	4.7	0	0	0	0
Pike	324	309	4.3	1.3	7.0	7.0	3.0	5.3	5.0	0	0	0	0
Platina	477	446	3.4	2.3	8.3	7.0	5.0	5.7	5.3	0	0	0	0

Florida Table 6 (cont'd). White Fresh Market Potato Variety Trial. Yield, vine maturity, tuber characteristics, and internal defects of white-skinned fresh market potato clones grown at Hastings, FL - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield (cwt/A)	Vine Maturity ¹	Tuber Characteristics ¹						Internal Defects ²			
				IFC	SC	ST	TS	ED	APP	HH	BR	CRS	INT
Reba (NY87)	180	154	1.3	1.0	7.3	7.0	2.7	5.0	5.0	0	0	0	0
Sebago	324	297	2.5	1.3	7.7	7.0	3.7	5.3	5.0	0	0	0	15
Shepody	203	148	1.6	1.0	8.0	6.7	4.7	7.0	3.7	0	0	0	0
Snowden (MFX)	421	391	4.0	1.3	6.0	6.0	3.0	5.3	3.7	0	0	0	0
Snowden (USDA)	433	417	2.8	1.3	6.0	5.7	3.0	5.7	3.7	0	0	0	0
Superior (MFX)	216	199	1.0	1.3	7.7	6.7	3.3	5.0	4.7	0	0	0	0
Superior (USDA)	151	131	1.0	1.0	7.0	6.7	2.7	5.7	4.0	0	0	0	0
Vivaldi	257	219	1.4	3.0	8.3	7.3	4.3	6.3	5.3	0	0	0	0
Yukon Gold (MFX)	325	277	1.1	3.3	8.3	7.3	2.7	5.7	6.3	0	0	5	0
Yukon Gold (USDA)	267	237	1.5	3.3	8.3	7.3	2.7	5.0	6.0	0	0	0	0
AF2079-7	139	120	1.0	1.0	6.7	6.3	3.0	5.7	6.0	5	0	0	0
AF2086-18	173	152	1.6	1.3	7.7	7.0	2.0	6.7	5.3	0	0	0	0
AF2135-1	370	307	2.4	1.0	8.3	7.3	4.0	6.0	5.0	0	0	0	0
B1801-6	237	198	1.1	3.7	8.3	7.0	3.0	6.7	6.3	0	0	0	5
B1826-1	293	244	1.1	1.3	7.0	7.0	3.0	6.3	4.7	0	0	0	0
B1870-3	284	252	1.4	1.7	7.3	7.0	3.3	6.3	4.7	0	0	0	0
B1870-17	297	264	2.3	1.0	6.3	6.0	3.3	6.7	5.0	0	0	0	5
B1873-4	331	283	2.0	1.0	6.7	6.7	3.3	7.7	4.3	0	0	0	15
B1880-4	301	269	1.9	1.0	7.3	7.0	2.7	5.7	4.3	0	0	0	0
B1880-6	190	157	1.3	1.0	6.0	6.0	3.3	6.0	3.7	0	0	0	0
B1919-9	286	242	1.6	1.0	6.0	6.0	5.3	7.0	4.3	0	0	0	0
Cape10	357	317	1.8	1.0	7.0	7.0	3.3	6.3	5.7	0	0	0	0
Cape15	347	295	1.8	1.0	7.7	7.3	3.0	6.0	5.3	0	0	0	0
Cape20	381	351	3.3	2.0	7.0	7.3	2.7	5.7	4.7	0	0	0	0
Cape25	176	156	1.3	1.0	7.7	7.3	3.3	5.3	6.0	0	0	0	0

Florida Table 6 (cont'd). White Fresh Market Potato Variety Trial. Yield, vine maturity, tuber characteristics, and internal defects of white-skinned fresh market potato clones grown at Hastings, FL - 2001.

Clone	Total Yield (cwt/A)	Marketable Yield (cwt/A)	Vine Maturity ¹	Tuber Characteristics ¹						Internal Defects ²			
				IFC	SC	ST	TS	ED	APP	HH	BR	CRS	INT
MSE149-5Y	287	253	1.3	2.3	8.3	7.0	3.0	6.0	4.7	0	0	0	0
MSG274-3	303	240	1.9	2.0	8.3	7.3	5.0	7.7	4.0	0	0	0	0
NY102	330	303	2.1	1.7	7.7	7.7	3.3	5.3	5.0	0	0	0	0
SC8801-2	309	264	2.1	1.0	8.0	7.0	3.0	5.3	6.0	0	0	0	0

¹ - See rating system outlined in Florida Rating Code Table.

² - Percent of tubers showing defects. HH = hollow heart, BR = brown rot, CRS = corky ring spot, INT = internal browning.