

**1994 POTATO QUALITY EVALUATIONS**

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Table 1

Percent Solids

<u>Field</u>	<u>Clone</u>	<u>% Solids</u>
—	AC78069-17	20.3
1903	AC83064-1	19.5
—	AC83064-6	18.9
1709	AC83068-1	17.3
1802	AC83306-1	17.7
1902	AC84487-1	20.7
1707	ATX7-85404-8	19.1
1701	BC0894-2	17.8
1705	CO86153-2	19.7
—	CO80011-5	21.9
—	CO81082-1	23.0
—	CO82142-4	20.4
1901	CO84074-2	19.9
1801	CO85026-4	21.3
1702	CO86030-1	22.5
1704	CO86142-3	22.7
1706	CO86218-2	21.7
1708	COTX86146-2R	19.4
1463	ATLANTIC	20.3
—	CENTENNIAL RUSSET	20.5
—	CHIPETA	21.2
1464	NORCHIP	19.8
—	RANGER RUSSET	21.7
—	RUSSET NUGGET	22.8
—	SANGRE	17.8

Table 2

Raw Enzymatic Browning

<u>Field</u>	<u>Clone</u>	<u>30 min.</u>	<u>60 min.</u>	<u>90 min.</u>	<u>150 min.</u>
—	AC78069-17	1	1	1	2
1903	AC83064-1	0	0	0	0.5
—	AC83064-6	1	1	1	1
1709	AC83068-1	1	2	2	2
1802	AC83306-1	0	0	0	1
1902	AC84487-1	1	1	1	2
1707	ATX7-85404-8	1	1	1	1
1701	BC0894-2	1	2	2	2
1705	CO86153-2	0	1	1	2
—	CO80011-5	0	0	1	1
—	CO81082-1	1	1	1	1
—	CO82142-4	1	1	1	2
1901	CO84074-2	0	0	0	0.5
1801	CO85026-4	1	1	1	1
1702	CO86030-1	0	0	0.5	1
1704	CO86142-3	0	1	1	1
1706	CO86218-2	1	1	1	1
1708	COTX86146-2R	1	1	1	2
1463	ATLANTIC	0	1	1	2
—	CENTENNIAL RUSSET	1	1	1	1
—	CHIPETA	1	1	1	1
1464	NORCHIP	1	1	2	2
—	RANGER RUSSET	1	2	3	3
—	RUSSET NUGGET	1	1	2	2
—	SANGRE	1	1	1	2

On a 0 to 3 point scale, with 0 being none and 3 being very dark

Table 3

## Total Glycoalkaloids

<u>Field</u>	<u>Clone</u>	<u>mg/100g FWB</u>
—	AC78069-17	10.3
1903	AC83064-1	8.5
—	AC83064-6	11.3
1709	AC83068-1	8.2
1802	AC83306-1	12.1
1902	AC84487-1	10.7
1707	ATX7-85404-8	9.1
1701	BC0894-2	7.3
1705	CO86153-2	8.3
—	CO80011-5	10.0
—	CO81082-1	7.5
—	CO82142-4	6.2
1901	CO84074-2	6.9
1801	CO85026-4	7.8
1702	CO86030-1	8.2
1704	CO86142-3	9.0
1706	CO86218-2	9.3
1708	COTX86146-2R	10.9
1463	ATLANTIC	11.2
—	CENTENNIAL RUSSET	9.7
—	CHIPETA	10.1
1464	NORCHIP	9.8
—	RANGER RUSSET	10.3
—	RUSSET NUGGET	8.5
—	SANGRE	10.7

Table 4

Vitamin C

<u>Field</u>	<u>Clone</u>	<u>mg/100g FWB</u>
—	AC78069-17	42
1903	AC83064-1	52
—	AC83064-6	51
1709	AC83068-1	49
1802	AC83306-1	45
1902	AC84487-1	40
1707	ATX7-85404-8	58
1701	BC0894-2	47
1705	CO86153-2	45
—	CO80011-5	58
—	CO81082-1	50
—	CO82142-4	46
1901	CO84074-2	41
1801	CO85026-4	59
1702	CO86030-1	62
1704	CO86142-3	54
1706	CO86218-2	46
1708	COTX86146-2R	52
1463	ATLANTIC	55
—	CENTENNIAL RUSSET	49
—	CHIPETA	58
1464	NORCHIP	56
—	RANGER RUSSET	45
—	RUSSET NUGGET	50
—	SANGRE	45

Table 5

Percent Protein (N x 6.25)

<u>Field</u>	<u>Clone</u>	<u>% Protein DWB</u>
—	AC78069-17	10.5
1903	AC83064-1	8.9
—	AC83064-6	8.4
1709	AC83068-1	11.3
1802	AC83306-1	10.8
1902	AC84487-1	8.9
1707	ATX7-85404-8	9.3
1701	BC0894-2	9.5
1705	CO86153-2	11.2
—	CO80011-5	12.8
—	CO81082-1	9.3
—	CO82142-4	10.6
1901	CO84074-2	11.3
1801	CO85026-4	11.9
1702	CO86030-1	12.5
1704	CO86142-3	12.9
1706	CO86218-2	12.1
1708	COTX86146-2R	9.0
1463	ATLANTIC	10.7
—	CENTENNIAL RUSSET	11.9
—	CHIPETA	11.9
1464	NORCHIP	12.6
—	RANGER RUSSET	11.1
—	RUSSET NUGGET	12.9
—	SANGRE	11.9

Table 6

Subjective Baked Flavor

<u>Field</u>	<u>Clone</u>	<u>Rating</u>
—	AC78069-17	1
1903	AC83064-1	1
—	AC83064-6	4
1709	AC83068-1	1
1802	AC83306-1	1
1902	AC84487-1	2
1707	ATX7-85404-8	2
1701	BC0894-2	2
1705	CO86153-2	1
—	CO80011-5	1
—	CO81082-1	1
—	CO82142-4	1
1901	CO84074-2	2
1801	CO85026-4	1
1702	CO86030-1	1
1704	CO86142-3	1
1706	CO86218-2	1
1708	COTX86146-2R	2
1463	ATLANTIC	5
—	CENTENNIAL RUSSET	1
—	CHIPETA	4
1464	NORCHIP	3
—	RANGER RUSSET	1
—	RUSSET NUGGET	1
—	SANGRE	2

20-member trained panel using a 5-point scale with 1 being "like a lot" and 5 being "dislike a lot"

Table 7

Baked Diacetyl Levels

<u>Field</u>	<u>Clone</u>	<u>mg/100g</u>
—	AC78069-17	42
1903	AC83064-1	53
—	AC83064-6	12
1709	AC83068-1	40
1802	AC83306-1	58
1902	AC84487-1	33
1707	ATX7-85404-8	30
1701	BC0894-2	38
1705	CO86153-2	42
—	CO80011-5	45
—	CO81082-1	37
—	CO82142-4	40
1901	CO84074-2	31
1801	CO85026-4	43
1702	CO86030-1	40
1704	CO86142-3	44
1706	CO86218-2	45
1708	COTX86146-2R	30
1463	ATLANTIC	21
—	CENTENNIAL RUSSET	47
—	CHIPETA	34
1464	NORCHIP	29
—	RANGER RUSSET	45
—	RUSSET NUGGET	41
—	SANGRE	35