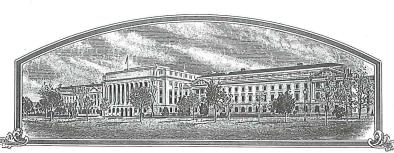
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No.



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TO ALL TO WHOM THESE PRESENTS SHALL COME;

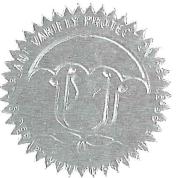
President Colorado Certified Potato Growers' Association, Inc.

Whereas, there has been presented to the

Secretary of Agriculture

An application requesting a certificate of protection for an alleged distinct variety of sexually reproduced, or tuber propagated plant, the name and description of which are contained in the application and exhibits, a copy of which is hereunto annexed and made a part hereof, and the various requirements of LAW in such cases made and provided have been complied with, and the title thereto is, from the records of the PLANT VARIETY PROTECTION OFFICE, in the applicant(s) indicated in the said copy, and Whereas, upon due examination made, the said applicant(s) is (are) adjudged to be entitled to a certificate of plant variety protection under the LAW.

Now, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of TWENTY years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or conditioning it for propagation, or stocking it for any of the above purposes, or using it in producing a hybrid or different variety therefrom, to the extent provided by the PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)



Attest:

OKOZ

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

POTATO

'Canela Russet'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fourteenth day of September, in the year two thousand and twelve.

Oleun J. Vilsal Secretary of Agriculture

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

Dhilden Rocky			SIGNATURE OF OWNER				
NAME (Please print or type) Sheldon Rockey	0		NAME (Please print or type)				
President		1/30/08	CAPACITY OR TITLE	DATE			

2008 FEB 11 AM11:21

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GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

#200800122

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Tissue-cultured plantlets and tuber seed stocks of AC92009-RU were pre-released to local seed growers for research and evaluation purposes under an agreement regarding experimental potato selections. A copy of this agreement is attached as Appendix 1

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

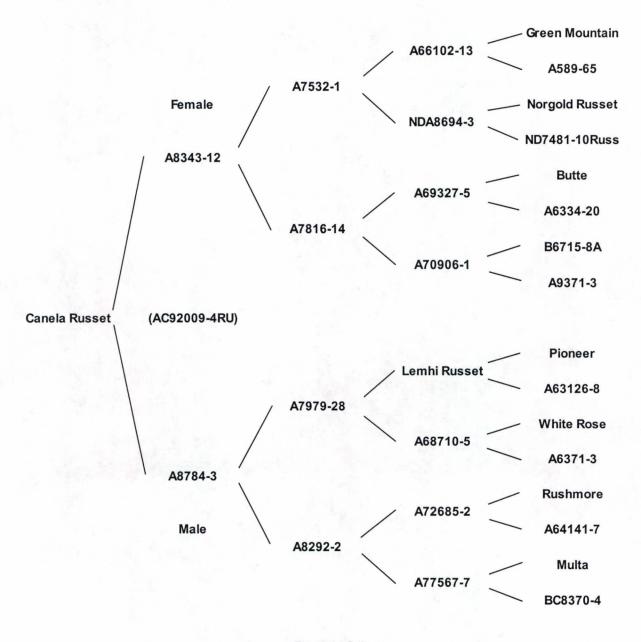
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

Exhibit A

Origin and Breeding History of the Variety

1. Pedigree:

Canela Russet, tested under pedigree number AC92009-4RU, was selected in 1994 at the San Luis Valley Research Center - Colorado State University, Center Colorado. It resulted from a cross of A8343-12 and A8784-3 made by the USDA-ARS at the University of Idaho Research and Extension Center, Aberdeen, Idaho in 1992 under the direction of Dr. J. J. Pavek.



Page 1 of 3

Origin and Breeding History of the Variety

2. Selection and Multiplication:

Refer to Table 1 for an outline of the potato breeding, selection, and multiplication scheme for Canela Russet.

Selection and early testing was done by Dr. David G. Holm, San Luis Valley Research Center-Colorado State University, Center, Colorado. Colorado State University personnel conducting cultural management trials and disease evaluations/observations were Dr. Samuel Y. C. Essah and Dr. Robert D. Davidson, respectively.

Primary criteria used in selecting Canela Russet were yield potential, high percentage of US #1 tubers, exceptionally attractive tuber type, and resistance to internal and external grade defects such as hollow heart, second growth, growth cracks, blackspot bruise, shatter bruise, and a long tuber dormancy.

Canela Russet was evaluated in the Western Regional Trials in 2002-2004. These trials were conducted in several locations around the Western United States as part of WERA027 - Potato Variety Development.

Multiplication of Canela Russet tubers for initial selection and research trials and subsequent seed increase was via vegetative means using tubers and/or tissue-cultured disease tested seed stocks.

3. Statement of Uniformity and Stability:

Canela Russet has been observed for more than 14 years of field seed increase and/or tissueculture production. No variants have been observed during this time indicating that Canela Russet is uniform and stable.

Table 1. Potato breeding, selection, and multiplication scheme for Canela Russet.

Year Comments

- 1 Select parents for crossing and true seed production in the greenhouse at Aberdeen, Idaho.
- 2 Produce seedling tubers from true seed in the greenhouse at Aberdeen, Idaho.
- 3 70,000-80,000 seedling tubers planted in the field as single hills. Several thousand tubers are obtained from other breeding programs. Initial selection of this material takes place at harvest. First cycle of field selection at the San Luis Valley Research Center.
- 4 Twelve-hills of each single-hill selection are planted. Second cycle of field selection.
- 5 Preliminary Selections 1 (P1). Third cycle of field selection (48 plant tuber-unit seed increase). Initial evaluations for chipping qualities (chip color after various storage regimes and specific gravity) are conducted this year and subsequently.
- 6 Preliminary Selections 2 (P2). Fourth cycle of field selection (96 plant tuber-unit seed increase). Initial evaluations to characterize selections for blackspot bruise potential, storage weight loss, dormancy, and enzymatic browning. Initial evaluations for french fry potential (french fry color and specific gravity) are conducted this year and subsequently. Evaluations for chipping qualities are continued.
- 7 Intermediate Selections. Fifth cycle of field selection. Initial data collected on yield, grade, and growth characteristics. Plant a 144 plant tuber-unit seed increase and a 2 rep x 25 plants intermediate yield trial (IYT).
- 8-9, 14+ Advanced Selections: Includes selections that have advanced from the IYT. Additionally selections are included that have graduated from the Southwest Regional and Western Regional Trials. The advanced yield trials for reds, specialty types, and chippers are planted with entries in the Western Regional Red, Specialty and Chip Trials. Selections are in the 6th-7th and 12+ cycles of field selection. All advanced yield trials (AYT) have 4 reps x 25 plants. Sixth- and seventh- year field selections respectively have a 400/1,600 plant tuber-unit seed increase.
 - Selections in the sixth cycle of selection are indexed for viruses and cleanup/micropropagation is initiated. Testing for ring rot and PLRV reaction is also initiated at this stage and continues as needed. Selections in the 7th cycle of field selection are entered into cultural management trials and postharvest disease reaction (dry rot and soft rot) evaluations.
 - All 8th year selections have a 1/2 acre tuber-unit seed increase planted. These selections are entered in the Southwestern Regional Trials (4 locations CO, TX, two in CA). Cultural management trials and postharvest disease reaction evaluations continue as needed.
 - 11-13 All 9th year or older selections generally have a 1 acre or greater seed increase. These selections are entered in the Western Regional Trials (4 trials): main (russets and long whites), red, specialty, and chip. The Western Regional Committee (WERA027) directs these trials at 10+ locations in the Western United States each year. Cultural management trials and postharvest disease reaction evaluations continue as needed.
 - 11+ Grower/industry evaluations. The Colorado Potato Breeding and Selection Project relies on the cooperation of several growers, shippers, and processors to evaluate advanced selections for adaptability and marketability.
 - 14+ Release as a named cultivar.

#200800122

Exhibit B

Statement of Distinctness

Canela Russet is compared to Russet Norkotah, the most similar russet table stock reference cultivar grown in our trials. **Canela Russet** most clearly differs from Russet Norkotah in the following traits:

Trait	Canela Russet	Russet Norkotah	Evidence
Number of Inflorescence/Plant	4.2 +/- 1.8 (n=80)	0.1 +/- 0.3 (n=80)	Table 1
Number of Florets/Inflorescence	9.2 +/- 4.3 (n=80)	1.7 +/- 0.6 (n=3)	Table 2
Eye Number/Tuber	13.4 +/- 1.7 (n=100)	19.5 +/- 2.3 (n=100)	Table 3
Specific Gravity	1.099 +/- 0.006 (n=7)	1.080 +/- 0.003 (n=7)	Table 4
Stigma Color Chart	137B	146B	RHS Color Chart
Tuber Lateral Eyes	Shallow	Intermediate	Figure 1
Distribution of Tuber Eyes	Predominantly apical	Evenly distributed	Figure 1

Table 1.

Inflorescence/Plant	Analysis	3										
Canela Russet	9	3	4	4	3	6	5	4	4	8	Number	80
	4	4	4	5	6	2	4	4	4	4	Mean	4.2
	5	4	4	2	6	4	2	8	5	7	SD	1.8
	3	7	4	2	2	8	4	3	7	3		
	9	8	4	7	5	5	5	5	5	6		
	4	4	3	4	3	4	3	4	5	5		
	2	2	2	3	1	3	3	3	3	3		
	2	4	2	3	2	4	2	4	5	3		
Russet Norkotah	1	2	0	0	0	0	0	0	0	0	Number	80
	0	0	0	0	0	0	0	0	0	0	Mean	0.1
	0	0	0	0	0	0	0	0	0	0	SD	0.3
19-	0	0	0	0	0	0	0	0	0	0		
	1	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
1 1 1 1 1 1 1 1 1	0	0	0	0	0	0	0	0	0	0		

Table 2.

Florets/Inflorescen	ce Analy	/sis	The state of the s										
						7"							
Canela Russet	11	4	11	1	4	9	9	10	2	10		Number	80
	6	9	10	6	12	3	5	13	14	12		Mean	9.2
	10	12	4	1	12	5	3	4	12	4		SD	4.3
	4	3	7	13	5	13	6	12	10	10			26 1
	13	20	6	14	2	7	12	14	13	9			
	14	12	10	13	9	3	3	12	9	12			7 - 7
A STATE OF THE STA	9	11	5	12	13	13	11	3	9	11	200		
	8	16	12	11	6	9	15	18	8	18			
				5 11 1			700. L.						
Russet Norkotah	2	2	1								10,5	Number	4
								, T			- 10	Mean	1.5
												SD	0.6
		75											
	1												
			2										
	5		48										
						- 1							
				EL HA				4 1			10-11		

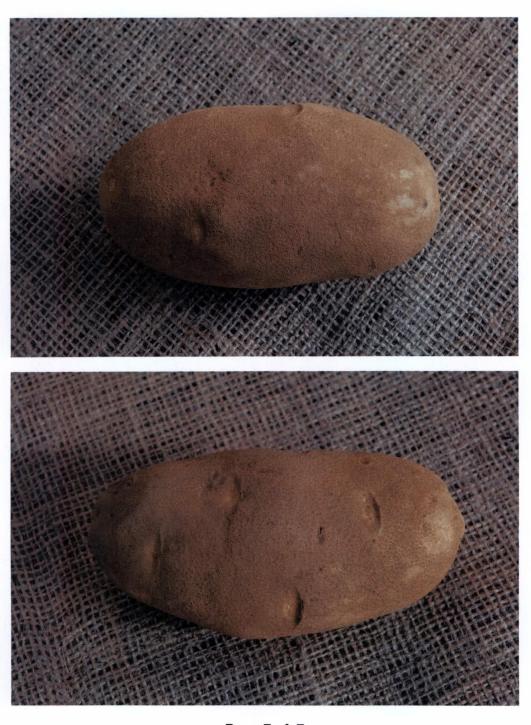
Table 3.

Eye Number/Tuber	Analysis	3	55,0									
Canela Russet	15	12	13	15	16	14	15	11	13	16	Number	100
	12	13	13	11	12	11	13	13	14	14	Mean	13.4
	12	9	14	12	11	14	13	13	16	14	SD	1.7
	13	10	12	14	13	10	12	12	14	13		
1945 119 119	16	14	15	15	15	13	13	16	15	13		
4 1 1 1 1 1 1 1	13	15	12	13	13	14	12	12	15	14		
	12	16	15	14	16	15	14	12	16	13		
	14	13	15	15	14	13	13	15	13	12		
	13	15	9	13	14	14	16	14	11	18		
	12	12	11	12	14	15	14	14	14	11		
Russet Norkotah	25	13	21	14	20	18	20	18	21	19	Number	100
Nusset Norkotali	20	19	19	19	21	19	18	20	17	20	Mean	19.5
Property of the Control of the Contr	20	20	20	20	18	21	22	17	19	18	SD	2.3
	21	19	17	17	19	17	22	22	20	24		
	19	21	18	18	20	18	22	24	20	23		
	19	17	20	19	18	16	22	21	18	18		
	22	24	18	17	20	20	19	19	19	18		
	20	22	18	21	23	18	19	17	22	22		
	19	21	19	20	16	22	18	20	24	19		
	20	18	15	25	17	21	17	16	18	24		

Table 4.

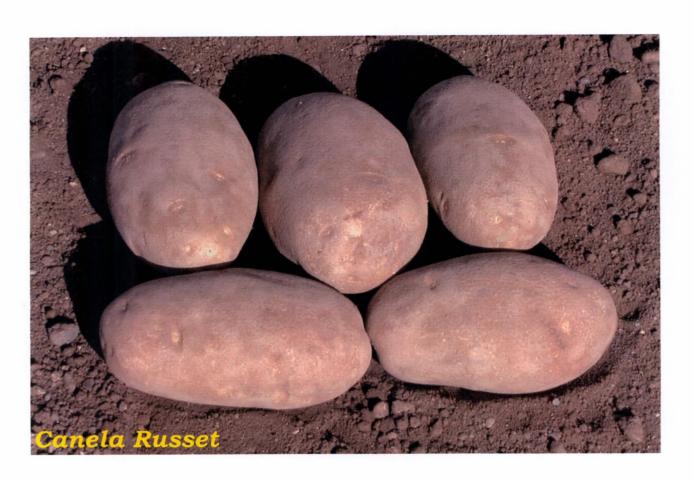
Specific Gravity Analysis									
Trial	Canela Russet	Russet Norkotah							
1	1.099	1.080							
2	1.086	1.078							
3	1.101	1.081							
4	1.101	1.080							
5	1.106	1.084							
6	1.103	1.082							
7	1.099	1.076							
	1480 / 1								
Mean	1.099	1.080							
SD	0.006	0.003							
Max	1.106	1.084							
Min	1.086	1.076							

Figure 1. Tuber lateral eye depth and eye distribution for Canela Russet (top) and Russet Norkotah (bottom).



Page 7 of 7

Canela Russet Tuber and Sprout Photos





1 = Closed

R1

2 = Intermediate

R2

R2

3 = Open



R3

R4

R4

* LIGHT SPROUT TIP: HABIT

Exhibit C (Potato) 2. LIGHT SPROUT CHARACTERISTICS: (continued) 200800122 LIGHT SPROUT TIP: PUBESCENCE 1 = Absent2 = Weak3 = Medium4 = Strong5 = Very Strong R1 R2 R3 R4 LIGHT SPROUT TIP ANTHOCYANIN COLORATION 2 = Red-violet 3 = Blue-violet 4 = Other(describe) R2 **R3** R1 **R**4 LIGHT SPROUT TIP: INTENSITY OF ANTHOCMANIN COLORATION (IF PRESENT) 1 = Absent2 = Weak 3 = Medium4 = Strong5 = Very Strong **R2 R3 R**1 R4 LIGHT SPROUT ROOT INITIALS: FREQUENCY 1 = Absent2 = Some3 = AbundantR2 R1 R3 **R**4 3. PLANT CHARACTERISTICS: **GROWTH HABIT**: (See Figure 2) 7 = Spreading 3 = Erect (>45° with ground) 5 = Semi-erect (30-45° with ground) R1 R2 R3 R4 TYPE: 1 = Stem (Øoliage open, stems clearly visible) 2 = Intermediate 3 = Leaf (Foliage closed, stems hardly visible) R2 R1R3 **R**4 MATURITY: Days after planting (DAP) at vine senescence R2 **R**1 **R**3 R4

PLANTING DATE:

V



R3

MATURITY CLASS:

1 = Very Early (<100 DAP) 2 = Early (100-110 DAP) 3 = Mid-season (111-120 DAP) 4 = Late (121-130 DAP) 5 = Very Late (>130 DAP).



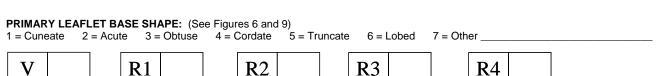
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R4

Exhibit C (Potato) 5. LEAF CHARACTERISTICS: (continued) 200800122 TERMINAL LEAFLET TIP SHAPE: (See Figures 6 and 8) 4 = Obtuse5 = Other1 = Acute2 = Cuspidate 3 = AcuminateR1R2 R3 R4 * TERMINAL LEAFLET BASE SHAPE: (See Figure 9) 3 = Obtuse5 = Truncate 7 = Other4 = Cordate 6 = Lobed1 = Cuneate 2 = Acute **R**1 R2 R3 R4 **TERMINAL LEAFLET MARGIN WAVINESS:** 1 = Absent 2 = Slight 3 = Weak4 = Medium 5 = StrongR2 R3 R4 R1NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 6) AVERAGE: R4 R3 **R**1 R2 V RANGE: R4 V R1 R2 **R**3 to to to to to PRIMARY LEAFLET TIP SHAPE: (See Figures 6 and 8) 1 = Acute2 = Cuspidate 3 = Acuminate 4 = Obtuse5 = OtherR2 R3 R1 R4 PRIMARY LEAFLET SIZE: 1 = Very Small 2 = Small3 = Medium4 = Large 5 = Very Large **R**3 R4 **R**1 **R**2 PRIMARY LEAFLET SHAPE: (See Figures 6 and 7) 1 = Narrowly ovate 2 = Medium ovate 3 = Broadly ovate 4 = Lanceolate 5 = Elliptical 6 = Ovate 7 = Oblong $8 = Other_$

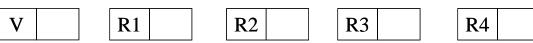


R2 R3 R4



NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 6)







R4

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to

AVERAC	3F											
V	,	R1			R2		R3		R4			
RANGE												
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6. INFLORESCENCE CHARACTERISTICS: (continued)

POLLEN PRODUCTION: 1 = None3 = Some

5 = Abundant

V	

R1

R2

R3

R4

STIGMA SHAPE: (See Figure 12)

3 Bi-lobed 1 = Capitate 2 = Clavate





R2

R3

R4

STIGMA COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsel Color Chart (Circle the appropriate color chart)



R1

R2

R3

R4

BERRY PRODUCTION: (Under field conditions)

1 = Absent3 = Low5 = Moderate 7 = Heavy 9 = Very Heavy



R1

R2

R3

R4

7. TUBER CHARACTERISTICS:

* PREDOMINANT SKIN COLOR:

1 = White 2 = Light Yellow 3 = Yellow4 = Buff5 = Tan6 = Brown7 = Pink8 = Red9 = Purplish-red 10 = Purple 11 = Dark purple-black 12 = Other



R1

R2 XX

R3

R4

PREDOMINANT SKIN COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)



R1

R2

R3

R4

SECONDARY SKIN COLOR:

1 = Absent2 = Present (please describe)



R1

R2

R3

R4

XX

SECONDARY SKIN COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color)



R1

R2

R3

R4

SECONDARY SKIN COLOR DISTRIBUTION: (See Figure 13)

3 = Splashed 4 = Scattered 1 = Eyes 2 = Eyebrows

5 = Spectacled

6 = Stippled

7 = Other



R1

R2

R3

R4

SKIN TEXTURE:

2 = Rough (flaky) 1 = Smooth

3 = Netled

4 = Russetted

5 = Heavily russetted

6 = Other



R1

R2

R3

R4

7. TUBI

* TUBER SHAPE: (See Figure 14) 1 = Compressed 2 = Round 3 = Oval 4 = Oblon	ng 5 = Long 6 = Other _		200
V R1 R2	R3	R4	800
TUBER THICKNESS: 1 = Round 2 = Medium thick 3 = Slightly flattened	4 = Flattened 5 = Othe	r	200800122
V R1 R2	R3	R4	
TUBER LENGTH (mm):			
AVERAGE: V R1 R2	D2	D4	
RANGE:	R3	R4	
V to R1 to	R2 to	R3 to	R4 to
STANDARD DEVIATION:			
V R1	R2	R3	R4
AVERAGE WEIGHT OF SAMPLE TAKEN:			
V R1	R2	R3	R4
TUBER WIDTH (mm)			
AVERAGE:			
V R1 R2	R3	R4	
RANGE:			
V to R1 to	R2 to	R3 to	R4 to
STANDARD DEVIATION:			
V R1	R2	R3	R4
AVERAGE WEIGHT OF SAMPLE TAKEN (g):			
V R1	R2	R3	R4

	CTERISTICS THICKNESS (BE:						V0000-VV
V		R1	R2	R3	R4		-
RANGE:							1
V	to	R1	to R2	to	R3 to	R4	to
STANDA	RD DEVIATION	ON:					
V		R1	R2		R3	R4	
AVERAG	E WEIGHT C	DF SAMPLE TAKEN	(g):				
V		R1	R2	R3	R4		
TUBER E	EYE DEPTH: uding 3 =	$\begin{array}{ccc} \text{Shallow} & \text{5 = Inte} \\ \hline R1 & & \\ \end{array}$	ermediate $7 = Deep$	9 = Very deep	R4		
V		KI	K2	K3	K4		
1 = Protro	LATERAL EY uding 3 =		ermediate 7 = Deep	9 = Very deep	R4		
NUMBER	R EYE/TUBEF BE:	₹:					
V		R1	R2	R3	R4		
RANGE:							
	4.5	D1	to D2	4.0	D2 to	R4	
V	to	R1	to R2	to	R3 to	K4	to
DISTRIB	UTION OF TU	JBER EYES:					
1 = Predo	ominantly apic	cal 2 = Evenly	distributed				
V		R1	R2	R3	R4		
1= Abser		BER EYEBROWS: pht prominence	3 = Medium prominence	4 = Very promine	nt 5 = Other		
	2 = 3119						
V		R1	R2	R3	R4		

7. TUBER CHARACTERISTICS: (continued)

PREDOMINANT TUBER FLESH COLOR

1 = White 2 = Light Yellow 3 = Yellow

4 = Buff10 = Purple 11 = Dark purple-black 12 = Other

R1

5 = Tan6 = Brown

7 = Pink

R3

8 = Red

9 = Purplish-red

R4

PRIMARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color) chart) N

R2

R1

R2

R3

R4

SECONDARY TUBER FLESH COLOR:

1 = Absent

V

2 = Present, please describe:

R1

R2

R3

R4

SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color chart)

R1

R2

R3

R4

NUMBER OF TUBERS/PLANT:

1 = Low (< 8)

2 = Medium (8-15)

3 = High (>15)

R1

R2

R3

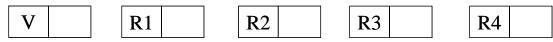
R4

8. DISEASES CHARACTERISTICS:

DISEASES REACTION: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size 4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible

7 = Susceptible 9 = Highly Susceptible

LATE BLIGHT: (Phytophthora)



EARLY BLIGHT: (Alternaria)



SOFT ROT (Erwinia)

V R1 R2 R3 I	R4
--	----

COMMON SCAB (Streptomyces)

V NJ N4	V	R1	R2	R3	R4
-------------	---	----	----	----	----

POWDERY SCAB (Spongospora)

V R1 R2 R3 R4

DRY ROT (Fusarium)

V R1	R2	R3	R4
------	----	----	----

POTATO LEAF ROLL VIRUS (PLRV)

V	V	R1	R2	R3	R4
---	---	----	----	----	----

8. DISEASES CHARACTERISTICS: (continued)

POTATO VIRUS X (PVX)



R1

R2

R3

R4

POTATO VIRUS Y (PVY)



R1

R2

R3

R4

POTATO VIRUS M (PVM)



R1

R2

R3

R4

POTATO VIRUS A (PVA)



R1

R2

R3

R4

GOLDEN NEMATODE (Globodera)



R1

R2

R3

R4

ROOT – KNOT NEMATODE (Meloidogyne)



R1

R2

R3

R4

OTHER DISEASE



R1

R2

R3

R4

PHYSIOLOGICAL DISORDER

1 = Malformed shape 6 = Blackheart 2 = Tuber cracking7 = Internal sprouting

3 = Feathering ng 8 = Other

4 = Hollow heart

5 = Internal necrosis

V

R1

R2

R3

R4

9. PESTS CHARACTERISTICS:

PEST REACTION: 0 = Not Tested 1 = Highly Resistant 2 = Resistant Few Symptoms 3 = Resistance Few Lessions in Number and Size

4 = Moderately Resistance 5 = Intermedia Susceptible 6 = Moderate Susceptible

7 = Susceptible 9 = Highly Susceptible

COLORADO POTATO BEETLE (CPB) (Leptinotarsa)



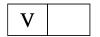
R1

R2

R3

R4

GREEN PEACH APHID (Myzus)



R1

R2

R3

R4

OTHER:



R1

R2

R3

R4

OTHER:



R1



R3

R4

10. GENE TRAITS:	Ν
INSERTION OF GENES: 1 = YES 2 = NO	00
IF YES, describe the gene(s) introduced or attach information:	8
11. QUALITY CHARACTERISTICS:	2008@0122
CHIEF MARKET:	72
SPECIFIC GRAVITY (wt. air/wt. air – wt. water) 1 = <1.060	10
V R1 R2 R3 R4	
TOTAL GLYCOALKALOID CONTENT (mg./100 g. fresh tuber)	
V R1 R2 R3 R4	
OTHER QUALITY CHARACTERISTICS: Describe any other quality characteristics that may aid in identification, (e.g., chip-procest baking, boiling, after-cooking darkening). Please attach data and corresponding protocol.	ssing, iterior by processing,
12. CHEMICAL IDENTIFICATION:	
Describe chemical traits of the candidate variety that aid in its identification (e.g., protien or DSN electrophoresis). Please attach deprotocol.	ata and the corresponding
13. FINGER PRINTING MARKERS:	
ISOZYMES 1 = YES 2 = NO	
IF YES, attach information	
14. DNA PROFILE: 1 = YES 2 = NO	77
IF YES, attach information	Received Mon 12/5/2011 6:49 PM via email by RAD
15. ADDDITIONAL COMMENTS AND CHARACTERISTICS:	Mon
Include any additional descriptors that would be useful in distringuishing the candidate variety.	12/5/20
	6:
	49 PN
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	y RAI

Exhibit D

Optional Supplemental Information

Field trials were conducted on a Norte gravelly sandy loam soil at the San Luis Valley Research Center, Co in 2002-2006. All trials were planted in a randomized complete block design with four replications. Each replication consisted of a single row 25 ft long. Between-row spacing was 34 in and in-row spacing, 12 in.

Data were analyzed by analysis of variance within a year. The LSD was used to test for differences among means when the F test for a variable was significant.

Following is a bulleted summary of yield, growth, and specific gravity characteristics observed for **Canela Russet** in the replicated yield trials. Associated statistical analysis of these differences are presented in Exhibit D, Tables 5-6.

- Generally greater total yield compared to Russet Norkotah
- Generally greater yield of US #1 tubers compared to Russet Norkotah
- Consistently greater % of US #1 tubers compared to Russet Norkotah
- Consistently greater yield of >10 oz tubers compared to Russet Norkotah
- ► Generally lower yield of <4 oz tubers compared to Russet Norkotah
- Similar % stand compared to Russet Norkotah
- Consistently larger vine size compared to Russet Norkotah
- Consistently later vine maturity compared to Russet Norkotah
- Consistently higher specific gravity compared to Russet Norkotah

Optional Supplemental Information

Table 5. Yield and grade of **Canela Russet** compared with Russet Norkotah, 2002-2006.

		Yield (Cwt/	-/	
		US #1		
Total	Total	%	>10 oz	<4 oz
	A IN			
365	331	90.5	156	29
519	429	82.7	151	66
76	76	5.9	NS	22
338	295	87.4	107	37
378	314	82.6	100	55
NS	NS	NS	NS	18
468	421	90.1	138	44
380	327	85.9	82	48
66	57	NS	41	NS
460	412	00.0	111	49
64	67	87.4 NS	NS	36 NS
384	359	93.5	148	20
368	321	87.5	109	29
NS	NS	5.4	NS	NS
	365 519 76 338 378 NS 468 380 66 468 309 64	365 331 519 429 76 76 338 295 378 314 NS NS 468 421 380 327 66 57 468 413 309 270 64 67 384 359 368 321	Total Total % 365 331 90.5 519 429 82.7 76 76 5.9 338 295 87.4 378 314 82.6 NS NS NS 468 421 90.1 380 327 85.9 66 57 NS 468 413 88.2 309 270 87.4 64 67 NS 384 359 93.5 368 321 87.5	Total Total % >10 oz 365 331 90.5 156 519 429 82.7 151 76 76 5.9 NS 338 295 87.4 107 378 314 82.6 100 NS NS NS 468 421 90.1 138 380 327 85.9 82 66 57 NS 41 468 413 88.2 114 309 270 87.4 78 64 67 NS NS 384 359 93.5 148 368 321 87.5 109

¹LSD=least significant difference; NS=not significant.

Optional Supplemental Information

Table 6. Plant growth characteristics and specific gravity for **Canela Russet** compared with Russet Norkotah, 2002-2006.

Clone	% Stand	Vine Size ¹	Vine Maturity ²	Specific Gravity
2002				
Canela Russet	97	4.3	2.8	1.099
Russet Norkotah	99	2.0	2.0	1.080
LSD (0.05) ³	NS	0.5	0.5	
2003				
Canela Russet	98	3.0	3.2	1.086
Russet Norkotah	100	2.0	2.0	1.078
LSD (0.05) ³	NS	0.5	0.5	
2004				
Canela Russet	96	4.0	3.0	1.101
Russet Norkotah	97	2.5	1.3	1.080
LSD (0.05) ³	NS	0.4	0.6	
2005				
Canela Russet	99	4.3	3.8	1.103
Russet Norkotah	98	2.0	2.0	1.082
LSD (0.05) ³	NS	0.7	0.7	
2006				
Canela Russet	88	4.0	3.0	1.099
Russet Norkotah	99	2.0	2.0	1.079
LSD (0.05) ³	6	0.5	0.5	

¹Vine size is rated on a 1 to 5 scale, with 5 indicating very large vines.

²Vine maturity is rated on a 1 to 5 scale, with 5 indicating very late maturing vines.

³LSD=least significant difference; NS=not significant.

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AGRICULTURAL MARKETING SERVICE	certificate is to be issued (7 U.S.C.		
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is is	sued (7 U.S.C. 2426).	
. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME	
President, Colorado Certified Potato Growers' Assoc., Inc.	AC92009-4RU	Canela Russet	
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)	
0249 East Road 9 North Center, CO 81125	(719) 754-3496	(719) 754-2619	
Center, CO 81123	7. PVPO NUMBER # 2 0 0 8 0 0 1 2 2		
Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block. If no, please exp	olain. YES No	
. Is the applicant (individual or company) a U.S. national or a U.S.	based company? If no, give name of	country. YES NO	
O to the applicant the original owner?			
0. Is the applicant the original owner?	NO If no, please answer on	e of the following:	
a. If the original rights to variety were owned by individual(s), is		onal(s)?	
a. If the original rights to variety were owned by individual(s), is	s (are) the original owner(s) a U.S. Nation NO If no, give name of cou	onal(s)? Intry based company?	
 a. If the original rights to variety were owned by individual(s), is YES b. If the original rights to variety were owned by a company(ies) 	s (are) the original owner(s) a U.S. Nation NO If no, give name of course, is (are) the original owner(s) a U.S. If no, give name of course NO If no, give name of course	onal(s)? intry based company? intry	
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including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION	
President, Colorado Certified Potato	0249 East Road 9 North	AC92009-4RU	
Growers' Association, Inc.	Center, CO 81125	VARIETY NAME Canela Russet	
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY	
Sheldon Rockey	0249 East Road 9 North Center, CO 81125	PVPO NUMBER 0 8 0 0 1 2 2	

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Date

#200800122



Potato Certification Service

No

San Luis Valley Research Center 0249 East Road 9 North Center, Colorado 81125 (719) 754-3496

FAX: (719) 754-2619

0394

Appendix 1.

NOTICE TO RECEIVERS OF EXPERIMENTAL POTATO SELECTIONS

I understand that the potato selections that I am receiving are experimental selections from the Colorado State University Agricultural Experiment Station (CSU-AES) potato breeding and selection program and may be used for research or evaluation purposes only. I further understand that experimental selections are in the process of being evaluated prior to official release and accept such additional risks that may be associated with such potatoes. I agree not to hold the University or its representatives liable for any losses incurred as a result of production and/or disposition of these potatoes.

I also understand that I may not provide these potatoes to anyone else without approval of CSU-AES or its designated representative. I further understand that any of these selections may be released as a cultivar, and may be legally protected under the federal Plant Variety Protection Act or other mechanisms which may require royalty payments before being grown commercially. No right or license to control seed stocks of these potatoes is granted to me by this agreement. Information I develop about these materials and disposition of production will be freely shared with the CSU-AES when requested.

I hereby acknowledge that I am receiving the following experimental potatoes:

Grower:	Buyer:	A Part of the second of the se
Lot Number	Selection	Amount (cwt)
		E Barrier Commence
		The third
		Ph. D
Buyer Signature:	Date:	
Address:		
11		
Telephone:		
Fax:		

Please return to Potato Certification Service, Attn: Dr. Robert D. Davidson at the letterhead address. Approval for sale of stocks will be authorized upon receipt of this completed form. Please call if you have questions.