No. 200300168

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Enza Zaden Beheer B.V.

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 MULTIPLYING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , 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.)

LETTUCE

'Telluride'

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 twenty-sixth day of July, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions*

Form Approved - OMB No. 0581-0055

RAO 5/9/05

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER: ENZA ZADEN, ~~De Enkhuiser Zaadhandel~~ Beheer BV
2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME: Exp. 1152A
3. VARIETY NAME: Telluride
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*: Postbus 7, 1600 AA Enkhuizen, Haling 1E, 1602 DB Enkhuizer, The Netherlands
5. TELEPHONE *(include area code)*: USA:831-623-4644, NL:+31-228-315844
6. FAX *(include area code)*: USA:831-623-1746, NL:+31-228-315854

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PVPO NUMBER: 200300168
FILING DATE: 2/25/2003

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*: Corporation
8. IF INCORPORATED, GIVE STATE OF INCORPORATION: Holland
9. DATE OF INCORPORATION: 1938

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*
Mel Holland
P.O. Box 866
San Juan Bautista, CA 95045-0866

FEES RECEIVED
FILING AND EXAMINATION FEES: $ 3652.00 DATE 2/25/2003
CERTIFICATION FEE: $ 432- DATE 5/10/2005

11. TELEPHONE *(include area code)*: 831-623-4644
12. FAX *(include area code)*: 831-623-1746
13. E-MAIL: mhollan2@ix.netcom.com
14. CROP KIND *(Common Name)*: Lettuce
15. GENUS AND SPECIES NAME OF CROP: Lactuca Sativa
16. FAMILY NAME *(Botanical)*: Compositae
17. IS THE VARIETY A FIRST GENERATION HYBRID? ☐ YES ☒ NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)
- a. ☒ Exhibit A. Origin and Breeding History of the Variety
- b. ☒ Exhibit B. Statement of Distinctness
- c. ☒ Exhibit C. Objective Description of Variety
- d. ☐ Exhibit D. Additional Description of the Variety *(Optional)*
- e. ☐ Exhibit E. Statement of the Basis of the Owner's Ownership
- f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
- g. ☒ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)* 3625

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 20 and 21 below)* ☒ NO *(If "no", go to item 22)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? ☐ YES ☒ NO
IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☒ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☒ YES ☐ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☒ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

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.

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
Mel Holland			
NAME *(Please print or type)* ENZA ZADEN, ~~De~~ Enkhuizer Zaadhandel BV By, Mel Holland		NAME *(Please print or type)*	
CAPACITY OR TITLE: Research Manager	DATE: 2/20/2003	CAPACITY OR TITLE	DATE

ST-470 (02-10-2003) designed by the Plant Variety Protection Office using Word 2000. Replaces former versions of ST-470, which are obsolete.

(See reverse for instructions and information collection burden statement)

GENERAL: 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; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to **reproduce** the variety, or for tuber reproduced varieties 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; (4) check drawn on a U.S. bank for $3,652 ($432 filing fee and $3,220 examination fee), payable to "Treasurer of the United States" *(See Section 97.6 of the Regulations and Rules of Practice.)* Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. 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 check payable to "Treasurer of the United States" in the amount of $432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. 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

18b. 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 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.

18c. 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.

18d. 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.*

18e. 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.

19. 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).*

22. *See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.*

23. *See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.*

21. CONTINUED FROM FRONT *(Please provide a statement as to the limitation and sequence of generations that may be certified.)*

22. 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:)*

February 28, 2002-First Sale Date USA

23. 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).)*

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. There is no charge for filing a change of address. The fee for filing a change of 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.)*

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

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 3.0 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, 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).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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EXHIBIT A: Origin and Breeding History

Lettuce: Telluride

Origin

Telluride was derived from a cross between Diamond (female) and inbred line 3X655 (male) in 1996.The inbred line 3X655 was derived from a cross with inbred 3X64 and 'El Dorado. El Dorado is a small dark green 'Salinas' iceberg type that is black seeded and has *Bremia* resistance factor R18 but does not have the *cor* gene for corky root resistance. The inbred line 3X64 = ((Greenlake x Salinas) x Alpha)) is a large medium green 'Salinas' iceberg type that is black seeded, corky root resistant, and has *Bremia* resistance genes 1, 5/8, 7. Inbred line 3X655 is a large size medium green 'Salinas' iceberg type that is black seeded with *Bremia* resistance factor, R18 and is homozygous for the *cor* gene. Breeding line 3x655 was susceptible to tipburn and formed puffy, loose heads under warm temperatures. The breeding objective was to develop a 'Salinas' iceberg variety with corky root resistance and *Bremia* resistance from R18 combined with the sure heading ability and tipburn tolerance of 'Diamond'. The pedigree method of breeding was employed to achieve this objective using single plant and mass selections.

The details of selection and multiplication used to develop 'Telluride' are noted below:

Stage 1 – The cross was made between 'Diamond' and breeding line 3X655 the F1 seed was screened for *Bremia* resistance factor R18 and seed of the resistant progeny were produced in the greenhouse.

Stage 2 – The F2 seed was screened for sure heading ability and tipburn tolerance in mid-summer plantings at San Juan Bautista. Twenty plants were saved from the mid-summer plantings and multiplied in the greenhouse.

Stage 3 –F3 plants were screened using corky root inoculum under optimal growing conditions for pathogen expression in the greenhouse. Masses of eight plants each were made from the resistant F3 generation lines in the greenhouse.

Stage 4 – Eight single plant selections were made in the F4 with a larger size, better holding, tipburn tolerance and weight at the company trial grounds in San Juan Bautista, California. Seed was increased from the selected plants in the greenhouse.

Stage 5 – The F5 generation was screened for Bremia and corky root resistance at the company research facilities in San Juan Bautista. Five F5 lines were found to be uniform for disease resistance to *Bremia* and corky root. These five F5 lines were then planted in commercial fields in the Salinas Valley with a known history of corky root. Single plant selections were made in these lines for tipburn tolerance and sure heading ability. Seed increases of selected plants were made in the greenhouse.

Stage 6- The F6 generation plants were planted in commercial production fields in the Salinas Valley and at the company trial grounds in San Juan Bautista. Two lines were

selected for seed increase of 100 plants each in a seed production field in the San Joaquin Valley of California.

Stage 7 - Seed from the two F7 masses were tested for *Bremia* (R18) and corky root resistance and found to be resistant to both. These two masses were tested in commercial fields in the Salinas Valley and San Juan Bautista, California as Exp. 1152A and Exp. 1152B. Exp. 1152A was selected for further increase based upon its more consistent performance in multiple plantings over a wide area and season.

Stage 8 – 1000 plants of Exp. 1152A were multiplied in California to produce foundation seed and seed for commercial testing.

Stage 9 – The Exp.1152A was named 'Telluride' and two generations of commercial seed were produced.

Each generation was tested for *Bremia* (R18) and corky root and found to be uniformly resistant. 'Telluride' lettuce has been evaluated in commercial plantings in lettuce production areas of California and Arizona. The variety 'Telluride' has been observed to be stable and uniform for type over four generations of reproduction from the F6. Less dense (puffy) head variants have been observed in seed production fields at less than 0.01% and is characteristic of Salinas iceberg varieties. Corky root resistance has been stable from the F3 and *Bremia* (R18) resistance from the F4 through subsequent reproduction cycles.

'Telluride' can be distinguished from the parent lines as follows:

(1) 'Diamond' - 'Telluride' is black seeded and has *Bremia* (R18) resistance and corky root resistant whereas 'Diamond' is brown seeded and lacks *Bremia* R18 factor and corky root resistance.

(2) 3X655 - 'Telluride' is sure heading and tipburn tolerant.

Exhibit B: Statement of Distinctness

Lettuce – 'Telluride'

'Telluride' is most similar to 'Diamond'; however, 'Telluride' is black seeded and is resistant to Bremia lactucae, California pathotype 5 conferred by R18 and corky root whereas 'Diamond' is brown seeded and lacks the R18 factor and is susceptible to Bremia lactucae, California pathotype 5 and corky root

'Telluride' averages larger frame width (59.4 vs. 55.6cm), greater head weight (934 vs. 691g), larger head diameter (17.3 vs. 16.1cm), larger head height (16.7 vs. 15.3cm), longer cores (44.6 vs. 38.9mm) and larger core diameter (36.6 vs 32.4mm) than 'Diamond'.

Greenhouse Screenings for Corky Root Resistance- CA-1 isolate

Table 1: Commercial Production 2001-Tested 10/01

	Variety	Susceptible	Resistant	Total # Plants
Rep 1	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32
Rep 2	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32
Rep 3	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32

Table 2: Commercial Production 2002- Tested 11/02

	Variety	Susceptible	Resistant	Total # Plants
Rep 1	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32
Rep 2	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32
Rep 3	Telluride	0	32	32
	Diamond	32	0	32
	Bronco	0	32	32

Greenhouse Screenings for *Bremia lactucae* - 91D36 isolate*

Table 1: Commercial Production 2001-Tested 11/01

	Variety	Susceptible	Resistant	Total # Plants
Rep 1	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32
Rep 2	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32
Rep 3	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32

Table 2: Commercial Production 2002- Tested 10/02

	Variety	Susceptible	Resistant	Total # Plants
Rep 1	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32
Rep 2	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32
Rep 3	Telluride	0	32	32
	Silverado	0	32	32
	Diamond	32	0	32

* 91D36 isolate of *Bremia lactucae* resistance is conferred by DM4,15 and R18
** R18 confers resistance to the CA 1, 2A, 2B, 3, ~~and~~ 4, and 5. pathotypes of *Bremia lactucae*

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4/13/05

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT C

RAP 5/9/05

OBJECTIVE DESCRIPTION OF VARIETY
LETTUCE *Lactuca sativa*

NAME OF APPLICANT (S)
ENZA ZADEN, ~~De Enkhuizer Zaadhandel~~ Beheer BV

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Postbus 7, 1600 AA, Enkhuizen
Haling 1e, 1602 DB, Enkhuizen
The Netherlands

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PVPO NUMBER 200300168
VARIETY NAME
EXPERIMENTAL DESIGNATION

Place numbers in the boxes for the characters which best describe this variety. Measured data should be the mean of an appropriate number (at least 10) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is: Salinas and San Juan Bautista, Ca

Color System Used: RHS Color Chart-146B

. PLANT TYPE: *(See list of suggested check varieties page 4.)*

[0 6]

01=Cutting/Leaf
02=Butterhead
03=Bibb
04=Cos or Romaine
05=Great Lakes Group
06=Vanguard Group
07=Imperial Group
08=Eastern (Ithaca) Group
09=Stem
10=Latin
11=OTHER

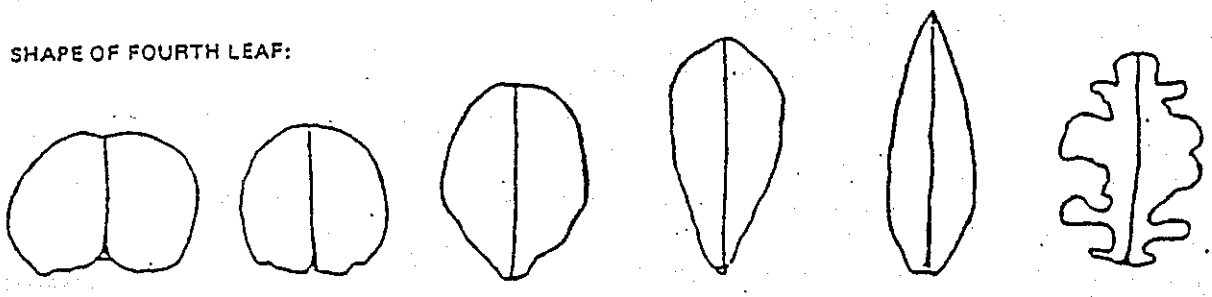
. SEED:

COLOR	LIGHT DORMANCY	HEAT DORMANCY
[2] 1=White (Silver Gray) 2=Black (Gray Brown) 3=Brown (Amber)	[2] 1=Light Required 2=Light Not Required	[2] 1=Susceptible 2=Not Susceptible

. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

[2] SHAPE OF COTYLEDONS: 1=Broad 2=Intermediate 3=Spatulate

[4] SHAPE OF FOURTH LEAF:



1 2 3 4 5 6

[1 9] LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

[1] APICAL MARGIN: } 1=Entire 2=Crenate/Crawed 3=Finely Dentate 4=Moderately Dentate 5=Coarsely Dentate 6=Incised 7=Lobed 8=OTHER *(specify)*

[4] BASAL MARGIN: }

[2] UNDULATION: 1=Flat 2=Slight 3=Medium 4=Marked

[4] GREEN COLOR: 1=Yellow Green 2=Light Green 3=Medium Green 4=Dark Green 5=Blue Green 6=Silver Green 7=Gray Green

ANTHOCYANIN:

[1] DISTRIBUTION: 1=Absent 2=Margin Only 3=Spotted 4=Throughout 5=OTHER *(specify)*

[–] CONCENTRATION: 1=Light 2=Moderate 3=Intense

[1] ROLLING: 1=Absent 2=Present

[1] CUPPING: 1=Uncupped 2=Slight 3=Markedly

[1] REFLEXING: 1=None 2=Apical Margin 3=Lateral Margins

8

NOTE: Provide color photo of harvest-mature leaves which accurately shows color and margin characteristics.

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MARGIN:

2	INCISION DEPTH: *(deepest penetration of the margin)*	1=Absent/Shallow (Dark Green Boston)	2=Moderate (Vanguard)	3=Deep (Great Lakes 659)
4	INDENTATION: *(finest divisions of the margin)*	1=Entire (Dark Green Boston) 2=Shallowly Dentate (Great Lakes 65)	3=Deeply Dentate (Great Lakes 659) 4=Crenate (Vanguard)	5=OTHER *(specify)*
2	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston)	2=Moderate (Vanguard)	3=Strong (Great Lakes 659)
4	GREEN COLOR:	1=Very Light Green (Bibb) 2=Light Green (Minetto)	3=Medium Green (Great Lakes) 4=Dark Green (Vanguard)	5=Very Dark Green 6=OTHER

ANTHOCYANIN *(grown at or below 10 C)*:

1	DISTRIBUTION:	1=Absent 2=Margin Only (Big Boston)	3=Spotted (Calif. Cream Butter) 4=Throughout (Prize Head)	5=OTHER *(specify)*
–	CONCENTRATION:	1=Light (Iceberg)	2=Moderate (Prize Head)	3=Intense (Ruby)
2	SIZE:	1=Small	2=Medium	3=Large
2	GLOSSINESS:	1=Dull (Vanguard)	2=Moderate (Salinas)	3=Glossy (Great Lakes)
2	BLISTERING:	1=Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
2	LEAF THICKNESS:	1=Thin	2=Intermediate	3=Thick
1	TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	

5. PLANT *(at market stage. Choose a comparison variety appropriate for this type.)*:

59	SPREAD OF FRAME LEAVES: cm This Variety	56 cm Diamond *(specify comparison variety)*		
17	HEAD DIAMETER *(market trimmed with single cap leaf)*: cm This Variety	16 cm Diamond *(specify comparison variety)*		
3	HEAD SHAPE:	1=Flattened 2=Slightly Flattened	3=Spherical 4=Elongate	5=Non-Heading 6=OTHER
2	HEAD SIZE CLASS:	1=Small	2=Medium	3=Large
24	HEAD COUNT PER CARTON			
934	HEAD WEIGHT: g This Variety	691 g Diamond *(specify comparison variety)*		
3	HEAD FIRMNESS:	1=Loose 2=Moderate	3=Firm 4=Very Firm	

6. BUTT *(bottom of market-trimmed head)*:

2	SHAPE:	1=Slightly Concave	2=Flat	3=Rounded
1	MIDRIB:	1=Flattened (Salinas)	2=Moderately Raised	3=Prominently Raised (Great Lakes 659)

7. CORE *(stem of market-trimmed head)*:

37	mm Diameter at base of head
4.6	Ratio of head diameter/core diameter
45	Core height from base of head to apex: mm This Variety 39 mm DiAMOND *(specify comparison variety)*

8. BOLTING *(Give First Water Date* 4/26/2002 NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.

63	Number of days from First Water Date to seed stalk emergence *(summer conditions)*: This Variety	65 Diamond *(specify comparison variety)*		
2	BOLTING CLASS:	1=Very Slow 2=Slow	3=Medium 4=Rapid	5=Very Rapid
137	Height of mature seed stalk: cm This Variety	128 cm Diamond *(specify comparison variety)*		

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Spread of Bolter Plant *(at widest point)*:

4	5	cm This Variety	4	3	cm ~~Diamond~~ *(specify comparison variety)*

2	BOLTER LEAVES:	1=Straight	2=Curved	
2	MARGIN:	1=Entire	2=Dentate	
2	COLOR:	1=Light Green	2=Medium Green	3=Dark Green
	BOLTER HABIT:			
2	TERMINAL INFLORESCENCE:	1=Absent	2=Present	
2	LATERAL SHOOTS: *(above head)*	1=Absent	2=Present	
1	BASAL SIDE SHOOTS:	1=Absent	2=Present	

9. MATURITY *(earliness of harvest-mature head formation)*:

NOTE: Complete this section for at least one season.

SEASON	Applic. 1/ #of days	Check 1/ #of days	CHECK VARIETY 2/
Spring	105	102	Diamond
Summer	75	75	Diamond
Fall	83	82	Diamond
Winter			

Give planting date(s), and location(s):

Spring: January 20- San Juan Bautista, California

Summer: April 25 - Salinas, California

Fall: July 25 - Salinas, California

Winter:

1/ First water date to harvest. 2/ Fill in check variety name on the appropriate line.

10. ADAPTATION:

PRIMARY REGIONS OF ADAPTION *(tested and proven adapted)*: (0=Not tested 1=Not Adapted 2=Adapted)

0	Southwest *(Calif., Ariz. desert)*	2	West Coast	0	Northeast
0	Northcentral	0	Southeast	0	OTHER

SEASON:

2 Spring (area Salinas&Santa Maria) 2 Fall (area Salinas & Santa Maria)

2 Summer (area Salinas & Santa Maria) 0 Winter (area)

0	GREENHOUSE:	0=Not tested	1=Not Adapted	2=Adapted
1	SOIL TYPE:	1=Mineral	2=Organic	3=Both

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11. DISEASES AND STRESS REACTIONS (0=Not tested; 1=Susceptible; 2=Intermediate; 3=Resistant; 4=Highly resistant; 5=Tolerant):

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VIRUS

- [0] Big Vein
- [1] Lettuce Mosaic
- [0] Cucumber Mosaic
- [0] Broad Bean Wilt
- [0] Turnip Mosaic
- [0] Beet Western Yellows
- [0] Lett. Infectious Yellows
- [0] Other Virus _____

FUNGAL/BACTERIAL

- [3] Corky Root Rot (Pythium Root Rot)
- [3] Downy Mildew (Races NL1-16, 19, 21, 23
- [0] Powdery Mildew
- [ ] Sclerotinia Rot
- [ ] Bacterial Soft Rot (Pseudomonas spp. & others)
- [ ] Botrytis (Gray Mold)
- [ ] OTHER _____

INSECTS

- [1] Cabbage Loopers
- [0] Root Aphids
- [1] Green Peach Aphid
- [0] Other Insect _____

PHYSIOLOGICAL/STRESS

- [5] Tipburn
- [0] Heat
- [0] Drought
- [0] Cold
- [0] Salt
- [0] Brown Rib (Rib Discoloration, Rib Blight)
- [0] OTHER _____

POST HARVEST

- [5] Pink Rib
- [5] Russet Spotting
- [5] Rusty Brown Discoloration
- [5] Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)
- [5] Brown Stain

12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

13. COMMENTS:

Telluride is hmozygous for the Bremia R factor 18 and is homozygous for the cor gene for corky root resistance.

RECEIVED
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'03 FEB 25 P2:24

SUGGESTED CHECK VARIETIES

TYPE	CHECK VARIETY
1) CUTTING/LEAF	SALAD BOWL
2) BUTTERHEAD	DARK GREEN BOSTON
3) BIBB	BIBB
4) COS, OR ROMAINE	PARRIS ISLAND
5) GREAT LAKES GROUP	GREAT LAKES 659-700
6) VANGUARD GROUP	VANGUARD
7) IMPERIAL GROUP	VIVA
8) EASTERN GROUP	ITHACA
9) STEM	CELTUCE
10) LATIN	MATCHLESS

Exhibit C: Objective Description of the Variety
Lettuce: Telluride (Exp. 1152A)

Item 3: Photocopy of fourth True leaf of 20 day old seedling

Exhibit C: Objective Description of the variety
Lettuce: Telluride (Exp. 1152A)

Item 4: Photograph of harvest-mature outer leaves showing color and outer leaf margins.

Lettuce: Telluride PVP **Summary of Means**

200300168

Spread of Frame leaves (cm)	Chular 2001	Castroville 2002	Greenfield 2002	Avg of 3 tests
Diamond	51.7*	57.1*	57.9*	55.6
Telluride	56.3*	59.6*	62.2*	59.4
Head Weight (g)				
Diamond	616.6*	746*	711*	691
Telluride	936.3*	948*	919*	934
Head Diameter (cm)				
Diamond	15.5*	16.4*	16.3*	16.1
Telluride	17.4*	17.4*	17.2*	17.3
Head Height (cm)				
Diamond	15.6*	14.9*	15.5*	15.3
Telluride	17.1*	16.6*	16.4*	16.7
Core Length (mm)				
Diamond	34.3*	38.9*	43.5*	38.9
Telluride	38.4*	43.4*	52.1*	44.6
Core Diameter (mm)				
Diamond	32.2*	33.8*	31.2*	32.4
Telluride	36.6*	36.8*	36.3*	36.6

*---Values are significantly different at the 95% confidence level

Summary Table

Lettuce: Telluride PVP

Frame Width (cm)

Chular, California
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	53	60		Rep2	55	60		Rep3	47	62	
	47	57			53	56			49	55	
	48	55			54	55			54	58	
	53	55			55	55			51	56	
	51	51			50	56			55	56	
	51	60			54	51			53	59	
	51	59			52	60			53	55	
	50	58			49	55			49	60	
	52	56			55	55			54	56	
	45	55			50	55			53	57	
	46	54			52	61			56	55	
	54	56			54	56			50	59	
	56	55			55	55			48	58	
	53	54			51	56			56	55	
	53	55			50	54			53	53	
	50	50			53	55			55	61	
	53	60			50	56			55	54	
	55	57			51	55			50	51	
	46	58			49	61			49	60	
	54	55			50	59			49	57	
	53	55			51	63			50	57	
	55	57			52	60			51	56	
	55	52			49	55			55	56	
	49	54			54	57			50	50	
Count	24	24	48		24	24	48		24	24	48
Sum	1233	1338	2571		1248	1361	2609		1245	1356	2601
Average	51.375	55.75	53.5625		52	56.70833	54.35417		51.875	56.5	54.1875
Variance	9.983696	7.065217	13.23005		4.521739	7.95471	11.76551		7.592391	8.434783	13.30452

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	16.72222	2	8.361111	1.101293	0.335345	3.061714
Variety	751.6736	1	751.6736	99.00748	6.45E-18	3.909733
Interaction	0.722222	2	0.361111	0.047564	0.953565	3.061714
Error	1047.708	138	7.592089			
Total	1816.826	143				

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Lettuce: Telluride PVP

Frame Width (cm)

Castroville, California
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	61	57		Rep2	56	59		Rep3	58	60	
	54	55			62	60			58	62	
	55	59			61	59			50	66	
	55	63			63	63			60	56	
	57	60			60	59			56	58	
	55	66			59	57			58	59	
	58	57			58	66			58	56	
	59	58			56	61			56	59	
	58	61			60	60			55	62	
	55	59			59	60			54	58	
	57	58			60	60			55	62	
	55	57			58	60			54	56	
	54	59			61	62			56	58	
	60	59			60	59			54	60	
	55	58			59	58			57	58	
	55	61			58	57			56	61	
	55	60			59	61			52	56	
	52	58			53	57			55	58	
	60	60			60	58			56	60	
	57	58			58	59			57	58	
	60	61			60	61			54	61	
	61	59			59	60			55	63	
	58	61			58	59			57	66	
	55	62			55	58			56	62	
Count	24	24	48		24	24	48		24	24	48
Sum	1361	1426	2787		1412	1433	2845		1337	1435	2772
Average	56.70833	59.41667	58.0625		58.83333	59.70833	59.27083		55.70833	59.79167	57.75
Variance	6.21558	5.297101	7.506649		4.927536	4.128623	4.627216		4.563406	8.172101	10.48936

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	61.93056	2	30.96528	5.578601	0.00468	3.061714
Variety	235.1111	1	235.1111	42.35683	1.3E-09	3.909733
Interaction	62.18056	2	31.09028	5.601121	0.004583	3.061714
Error	766	138	5.550725			
Total	1125.222	143				

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Lettuce: Telluride PVP

Frame Width (cm)

Greenfield, California
10/11/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	60	62		Rep2	58	61		Rep3	56	60	
	57	62			61	63			58	68	
	61	58			61	63			59	61	
	55	61			62	61			58	65	
	55	58			60	62			60	64	
	53	63			54	61			59	59	
	59	61			59	58			57	63	
	55	63			61	63			54	60	
	57	66			59	70			54	62	
	56	60			60	65			62	68	
	54	61			61	63			60	63	
	58	60			59	60			61	63	
	59	59			56	50			55	60	
	60	67			58	60			61	61	
	59	65			53	66			59	61	
	55	63			61	57			60	62	
	60	58			57	64			59	61	
	59	63			60	63			58	58	
	46	58			60	62			56	70	
	57	60			60	70			57	65	
	56	65			61	59			58	66	
	52	59			60	64			60	66	
	61	61			57	62			58	60	
	57	61			58	68			59	66	
Count	24	24	48		24	24	48		24	24	48
Sum	1361	1474	2835		1416	1495	2911		1398	1512	2910
Average	56.70833	61.41667	59.0625		59	62.29167	60.64583		58.25	63	60.625
Variance	11.43297	6.688406	14.52793		5.217391	17.60688	13.93573		4.543478	10	12.87766

Anova: Two-Factor With Replication

Alpha=0.05

Source of Varia	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	79.18056	2	39.59028	4.280868	0.015712	3.061714
Variety	650.25	1	650.25	70.31107	5.27E-14	3.909733
Interaction	16.54167	2	8.270833	0.894319	0.411242	3.061714
Error	1276.25	138	9.248188			
Total	2022.222	143				

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Lettuce: Telluride PVP **Head Weight (g)** **Chular,California**
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	707	921		Rep2	680	1037		Rep3	532	1091	
	476	815			590	869			415	840	
	386	885			398	921			742	1054	
	606	641			376	1008			414	786	
	695	858			646	969			685	898	
	501	946			672	744			398	868	
	772	810			647	1016			533	1169	
	684	734			543	702			593	1111	
	589	1008			352	718			537	982	
	521	947			660	836			713	899	
	672	1011			702	714			671	940	
	707	704			597	1258			682	749	
	634	883			664	1050			465	934	
	798	1121			383	900			737	939	
	721	1062			688	938			610	1030	
	428	1000			485	878			759	933	
	796	880			638	802			637	993	
	804	1129			663	874			644	1159	
	857	786			692	966			636	1018	
	712	778			471	972			652	773	
	857	814			705	1140			746	932	
	581	1036			546	1186			739	1057	
	484	863			402	1156			723	1096	
	606	1090			625	913			755	898	
Count	24	24	48		24	24	48		24	24	48
Sum	15594	21722	37316		13825	22567	36392		15018	23149	38167
Average	649.75	905.0833	777.4167		576.0417	940.2917	758.1667		625.75	964.5417	795.1458
Variance	18036.02	17737.12	34151.57		14279.17	22780.82	52010.99		13401.59	13756.35	42595.53

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	32837.51	2	16418.76	0.985213	0.37597	3.061714
Variety	3673931	1	3673931	220.4555	2.14E-30	3.909733
Interaction	77905.04	2	38952.52	2.33736	0.100395	3.061714
Error	2299795	138	16665.18			
Total	6084468	143				

20030198

Lettuce: Telluride PVP **Head Weight (g)** **Castroville,California**
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	696	1040		Rep2	732	1056		Rep3	800	878	
	701	922			885	906			681	933	
	711	892			755	956			824	885	
	876	857			836	797			914	1009	
	885	1013			738	825			782	843	
	821	794			689	1022			854	878	
	699	1233			835	1015			782	1065	
	709	934			902	896			837	948	
	800	842			642	934			910	754	
	745	902			443	976			796	950	
	612	1213			434	1060			819	761	
	548	870			844	966			821	1024	
	750	1041			601	829			833	811	
	832	832			868	861			723	969	
	618	1063			794	821			780	907	
	797	856			589	998			802	873	
	582	1006			839	816			877	784	
	816	995			783	867			782	838	
	583	1036			806	1118			728	1149	
	780	941			813	889			624	929	
	798	879			626	1102			823	1096	
	544	894			715	914			736	1151	
	588	1029			543	1041			816	1054	
	714	1144			832	982			642	941	
Count	24	24	48		24	24	48		24	24	48
Sum	17205	23228	40433		17544	22647	40191		18986	22430	41416
Average	716.875	967.8333	842.3542		731	943.625	837.3125		791.0833	934.5833	862.8333
Variance	10708.98	13911.01	28128.11		17929.39	9081.81	24761.07		5363.297	12920.25	14204.87

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	17538.04	2	8769.021	0.752547	0.473089	3.061714
Variety	1474201	1	1474201	126.5141	3.1E-21	3.909733
Interaction	71180.01	2	35590.01	3.054292	0.050357	3.061714
Error	1608039	138	11652.46			
Total	3170958	143				

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Lettuce: Telluride PVP **Head Weight (g)** **Greenfield,California**
10/11/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	657	705		Rep2	742	987		Rep3	390	957	
	615	938			644	66			839	998	
	858	724			695	815			673	1193	
	763	879			803	984			846	949	
	629	879			890	1050			865	1097	
	344	1027			651	955			860	870	
	655	911			655	1277			749	895	
	856	863			761	898			833	885	
	754	698			693	946			872	792	
	703	952			808	1031			813	915	
	738	869			580	916			761	918	
	741	1001			834	913			732	997	
	761	710			511	776			743	819	
	410	1018			672	926			869	978	
	424	970			663	1053			727	926	
	739	895			585	1082			662	759	
	664	948			833	910			810	938	
	803	1036			853	848			773	896	
	668	1062			764	882			834	931	
	847	1018			791	854			744	985	
	484	880			692	792			784	732	
	528	985			704	965			791	937	
	634	1130			573	887			863	886	
	394	903			653	1246			671	943	
Count	24	24	48		24	24	48		24	24	48
Sum	15669	22001	37670		17050	22059	39109		18504	22196	40700
Average	652.875	916.7083	784.7917		710.4167	919.125	814.7708		771	924.8333	847.9167
Variance	22747.16	13624.65	35571.23		9749.471	48243.07	39500.82		10832.43	9668.232	16074.29

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	95714.6	2	47857.3	2.499837	0.08581	3.061714
Variety	1569383	1	1569383	81.97705	1.17E-15	3.909733
Interaction	72600.13	2	36300.06	1.896142	0.154038	3.061714
Error	2641895	138	19144.17			
Total	4379593	143				

2003 0198

Lettuce: Telluride PVP **Head Diameter (cm)** **Chular, California**
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	18	16		Rep2	17	19		Rep3	18	19	
	18	16			15	16			15	17	
	12	15			13	17			15	18	
	16	15			16	17			16	15	
	15	15			16	18			15	17	
	17	17			15	18			15	17	
	15	17			16	19			16	19	
	16	17			14	15			14	18	
	15	19			11	16			16	16	
	14	16			14	17			14	20	
	15	19			15	19			17	20	
	16	19			16	20			15	17	
	16	17			15	20			15	19	
	15	16			14	18			18	18	
	16	16			15	16			15	18	
	18	17			15	18			15	20	
	17	18			14	17			15	15	
	17	17			15	17			18	18	
	17	17			14	15			15	19	
	18	17			17	17			16	17	
	16	17			13	19			16	18	
	16	20			14	16			18	16	
	16	19			15	18			17	16	
	17	18			14	18			16	17	
Count	24	24	48		24	24	48		24	24	48
Sum	386	410	796		353	420	773		380	424	804
Average	16.08333	17.08333	16.58333		14.70833	17.5	16.10417		15.83333	17.66667	16.75
Variance	1.992754	1.905797	2.163121		1.780797	2	3.839982		1.536232	2.144928	2.659574

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	SS	df	MS	F	P-value	F crit
Reps	10.79167	2	5.395833	2.849785	0.061267	3.061714
Variety	126.5625	1	126.5625	66.84341	1.71E-13	3.909733
Interaction	19.29167	2	9.645833	5.094403	0.007335	3.061714
Error	261.2917	138	1.893418			
Total	417.9375	143				

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Lettuce: Telluride PVP **Head Diameter (cm)** **Castroville, California**
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	16	16		Rep2	17	17		Rep3	16	18	
	17	16			15	18			17	17	
	16	16			16	18			14	18	
	18	16			17	16			16	18	
	16	17			17	17			17	18	
	18	17			14	17			18	16	
	17	17			17	16			16	19	
	17	19			16	17			15	17	
	18	16			17	18			16	18	
	17	18			17	18			15	18	
	18	17			16	17			17	18	
	17	17			14	17			16	19	
	18	17			15	19			16	18	
	17	17			16	18			18	16	
	18	18			16	17			17	17	
	15	17			15	18			16	18	
	17	16			17	16			16	19	
	17	16			16	17			16	17	
	16	18			17	18			16	18	
	17	16			18	18			16	18	
	16	16			17	19			16	16	
	14	18			17	18			17	18	
	16	18			15	18			16	17	
	17	19			14	17			16	17	
Count	24	24	48		24	24	48		24	24	48
Sum	403	408	811		386	419	805		389	423	812
Average	16.79167	17	16.89583		16.08333	17.45833	16.77083		16.20833	17.625	16.91667
Variance	1.041667	0.956522	0.988918		1.297101	0.693841	1.457004		0.780797	0.766304	1.269504

Anova: Two-Factor With Replication — *Alpha=0.05*

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	0.597222	2	0.298611	0.323626	0.724069	3.061714
Variety	36	1	36	39.01571	4.88E-09	3.909733
Interaction	11.29167	2	5.645833	6.118783	0.002844	3.061714
Error	127.3333	138	0.922705			
Total	175.2222	143				

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Lettuce: Telluride PVP **Head Diameter (cm)** **Greenfield, California**
10/11/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	15	17		Rep2	18	18		Rep3	15	17	
	15	16			16	17			18	19	
	17	16			16	17			17	19	
	17	17			15	17			17	16	
	16	17			18	17			18	19	
	13	18			16	19			16	17	
	17	17			15	19			18	16	
	17	18			16	18			17	16	
	18	17			15	17			16	17	
	16	19			16	16			17	16	
	18	18			15	16			17	18	
	17	17			18	18			16	19	
	17	18			17	18			16	18	
	15	18			16	17			18	17	
	14	16			16	19			15	17	
	16	17			18	18			17	18	
	17	17			15	18			15	16	
	18	16			13	15			16	17	
	17	18			16	17			16	17	
	18	18			17	16			17	17	
	15	17			18	16			14	15	
	16	19			15	16			18	18	
	16	17			16	18			17	17	
	14	16			15	17			16	16	
Count	24	24	48		24	24	48		24	24	48
Sum	389	414	803		386	414	800		397	412	809
Average	16.20833	17.25	16.72917		16.08333	17.25	16.66667		16.54167	17.16667	16.85417
Variance	1.911232	0.804348	1.60594		1.644928	1.152174	1.716312		1.21558	1.275362	1.318706

Anova: Two-Factor With Replication Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	0.875	2	0.4375	0.327976	0.72094	3.061714
Variety	32.11111	1	32.11111	24.07243	2.57E-06	3.909733
Interaction	1.930556	2	0.965278	0.723631	0.486819	3.061714
Error	184.0833	138	1.333937			
Total	219	143				

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Lettuce: Telluride PVP **Head Height (cm)** **Chular, California**
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	16	18		Rep2	15	17		Rep3	17	18	
	18	15			16	16			14	17	
	15	18			13	17			18	18	
	14	16			14	17			16	19	
	14	16			15	16			15	18	
	18	18			15	15			17	18	
	18	19			15	18			16	17	
	14	18			15	16			17	17	
	18	16			13	16			16	17	
	17	19			14	18			15	19	
	15	16			15	16			15	17	
	15	18			14	16			16	17	
	17	16			14	18			17	17	
	16	18			14	16			16	17	
	17	17			12	17			18	17	
	18	17			15	17			15	16	
	15	17			16	18			14	16	
	16	16			14	19			17	17	
	15	16			15	16			16	18	
	16	19			15	17			18	18	
	17	18			14	15			15	18	
	13	18			17	18			17	17	
	17	17			14	16			16	18	
	16	17			15	17			17	16	
Count	24	24	48		24	24	48		24	24	48
Sum	385	413	798		349	402	751		388	417	805
Average	16.04167	17.20833	16.625		14.54167	16.75	15.64583		16.16667	17.375	16.77083
Variance	2.21558	1.302536	2.069149		1.128623	1.065217	2.318706		1.362319	0.679348	1.371897

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	SS	df	MS	F	P-value	F crit
Reps	35.93056	2	17.96528	13.9021	3.16E-06	3.061714
Variety	84.02778	1	84.02778	65.02336	3.18E-13	3.909733
Interaction	8.347222	2	4.173611	3.229673	0.04258	3.061714
Error	178.3333	138	1.292271			
Total	306.6389	143				

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Lettuce: Telluride PVP **Head Height (cm)** **Castroville, California**
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	17	17		Rep2	14	18		Rep3	16	16	
	15	17			14	16			15	16	
	15	16			13	16			14	17	
	17	15			16	17			16	17	
	15	16			14	16			15	15	
	15	15			15	15			15	16	
	15	17			16	17			16	18	
	14	16			15	18			15	17	
	15	17			15	18			15	16	
	14	18			15	16			16	16	
	14	17			14	17			16	17	
	16	18			14	15			15	18	
	14	17			14	17			14	17	
	15	16			16	16			15	16	
	18	16			15	16			17	16	
	17	17			15	17			15	15	
	17	17			15	17			15	17	
	15	18			13	18			15	16	
	14	17			15	16			16	17	
	14	17			16	15			15	17	
	14	16			15	17			15	16	
	17	15			15	17			13	16	
	13	17			13	18			13	15	
	14	18			17	17			15	16	
Count	24	24	48		24	24	48		24	24	48
Sum	364	400	764		354	400	754		362	393	755
Average	15.16667	16.66667	15.91667		14.75	16.66667	15.70833		15.08333	16.375	15.72917
Variance	1.797101	0.84058	1.865248		1.065217	0.927536	1.913121		0.862319	0.679348	1.180408

Anova: Two-Factor With Replication Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	1.263889	2	0.631944	0.614323	0.54248	3.061714
Variety	88.67361	1	88.67361	86.20106	3.1E-16	3.909733
Interaction	2.430556	2	1.215278	1.181391	0.309935	3.061714
Error	141.9583	138	1.028684			
Total	234.3264	143				

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Lettuce: Telluride PVP **Head Height (cm)** **Greenfield, California**
10/11/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	15	16		Rep2	17	16		Rep3	14	17	
	15	16			15	16			15	17	
	17	16			15	16			13	17	
	17	15			14	17			16	16	
	16	16			15	18			15	16	
	13	16			18	18			17	18	
	17	16			14	15			16	16	
	17	15			15	16			15	16	
	18	15			15	17			15	15	
	16	17			17	18			15	14	
	17	17			14	17			15	16	
	17	18			15	15			16	17	
	17	18			17	16			15	17	
	15	17			14	16			16	18	
	14	16			14	17			15	16	
	16	17			16	17			15	16	
	17	17			18	18			16	17	
	18	18			14	15			14	15	
	17	19			15	16			15	17	
	17	15			15	17			16	15	
	15	16			16	17			14	15	
	16	17			14	15			14	17	
	16	16			17	16			15	18	
	14	17			15	14			14	16	
Count	24	24	48		24	24	48		24	24	48
Sum	387	396	783		369	393	762		361	392	753
Average	16.125	16.5	16.3125		15.375	16.375	15.875		15.04167	16.33333	15.6875
Variance	1.679348	1.130435	1.410904		1.722826	1.201087	1.68617		0.824275	1.101449	1.368351

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	9.875	2	4.9375	3.867786	0.023208	3.061714
Variety	28.44444	1	28.44444	22.28193	5.71E-06	3.909733
Interaction	5.263889	2	2.631944	2.061731	0.131135	3.061714
Error	176.1667	138	1.27657			
Total	219.75	143				

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Lettuce: Telluride PVP **Core Length (mm)** **Chular, California**
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	30	29		Rep2	35	40		Rep3	43	44	
	29	20			41	45			32	36	
	39	57			28	34			46	36	
	21	29			41	45			38	36	
	17	45			42	39			38	38	
	33	36			29	29			31	35	
	31	40			43	29			32	22	
	31	30			44	43			21	42	
	43	39			16	39			37	52	
	40	42			22	38			42	38	
	31	38			37	38			53	40	
	24	45			41	38			25	26	
	38	43			37	37			25	31	
	38	31			12	45			39	43	
	33	38			56	39			37	36	
	39	41			33	33			37	31	
	41	30			30	51			30	38	
	42	36			42	47			28	42	
	25	32			40	42			34	33	
	28	37			29	42			39	52	
	36	44			46	41			45	41	
	25	42			31	33			35	44	
	32	33			35	47			23	41	
	25	40			35	45			41	32	
Count	24	24	48		24	24	48		24	24	48
Sum	771	897	1668		845	959	1804		851	909	1760
Average	32.125	37.375	34.75		35.20833	39.95833	37.58333		35.45833	37.875	36.66667
Variance	49.6793478	56.244565	58.87234		94.34601	32.04167	67.60993		60.86775	48.9837	55.24823

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	200.6667	2	100.3333	1.759395	0.175988	3.061714
Variety	616.6944	1	616.6944	10.81405	0.001278	3.909733
Interaction	54.88889	2	27.44444	0.481252	0.619042	3.061714
Error	7869.75	138	57.02717			
Total	8742	143				

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Lettuce: Telluride PVP **Core Length (mm)** **Castroville, California**
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	47	53		Rep2	44	46		Rep3	35	37	
	34	56			43	55			33	50	
	38	35			27	36			25	41	
	45	44			44	3			46	40	
	43	49			42	29			42	44	
	46	35			46	44			41	38	
	29	54			36	41			50	44	
	35	48			42	50			31	45	
	38	28			51	38			32	40	
	39	34			50	41			52	41	
	31	52			31	44			48	47	
	51	50			31	47			30	49	
	25	39			34	36			33	42	
	46	39			43	45			43	33	
	43	56			39	44			45	45	
	39	45			41	45			28	45	
	28	46			37	37			49	34	
	38	55			31	51			30	44	
	26	47			48	35			39	52	
	35	50			44	47			40	48	
	43	43			38	43			35	36	
	37	36			40	55			31	53	
	28	56			36	47			46	47	
	45	34			56	35			37	52	
Count	24	24	48		24	24	48		24	24	48
Sum	909	1084	1993		974	994	1968		921	1047	1968
Average	37.875	45.166667	41.52083		40.58333	41.41667	41		38.375	43.625	41
Variance	53.5054348	70.666667	74.33998		49.47101	108.6884	77.57447		60.41848	31.63587	52.08511

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	8.680556	2	4.340278	0.069558	0.932838	3.061714
Variety	715.5625	1	715.5625	11.46778	0.000923	3.909733
Interaction	261.5417	2	130.7708	2.095766	0.126873	3.061714
Error	8610.875	138	62.39764			
Total	9596.66	143				

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Lettuce: Telluride PVP **Core Length (mm)** **Greenfield, California**
10/16/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	42	67		Rep2	47	55		Rep3	35	63	
	26	41			26	32			55	68	
	54	73			41	40			29	68	
	38	68			49	55			63	72	
	45	45			45	60			23	48	
	47	72			46	47			73	65	
	43	35			41	55			52	45	
	40	33			45	55			33	25	
	41	32			23	49			75	50	
	38	49			36	53			53	30	
	51	73			37	47			51	65	
	62	38			44	28			40	28	
	18	47			46	57			48	56	
	28	51			32	59			73	68	
	36	57			42	68			51	55	
	50	52			31	68			21	53	
	59	47			58	38			50	77	
	47	49			35	57			54	67	
	41	67			57	63			52	24	
	34	55			50	26			25	64	
	48	45			42	36			55	31	
	40	68			37	59			56	57	
	34	66			31	27			48	60	
	29	49			52	53			31	48	
Count	24	24	48		24	24	48		24	24	48
Sum	991	1279	2270		993	1187	2180		1146	1287	2433
Average	41.2916667	53.291667	47.29167		41.375	49.45833	45.41667		47.75	53.625	50.6875
Variance	107.172101	172.91123	173.828		80.85326	159.1286	134.1206		237.8478	250.9402	248.0066

Anova: Two-Factor With Replication Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	685.2639	2	342.6319	2.037751	0.134225	3.061714
Variety	2695.34	1	2695.34	16.03012	0.000101	3.909733
Interaction	230.9306	2	115.4653	0.686712	0.504939	3.061714
Error	23203.63	138	168.1422			
Total	26815.16	143				

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Lettuce: Telluride PVP **Core Diameter (mm)** **Chular, California**
8/16/2001

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	33	40		Rep2	40	35		Rep3	33	37	
	32	35			35	39			31	37	
	27	42			30	34			34	38	
	28	36			30	35			38	36	
	26	39			35	36			29	36	
	34	34			32	35			31	36	
	34	38			32	34			31	33	
	31	36			28	34			28	37	
	37	39			22	32			33	38	
	33	36			33	37			36	41	
	31	31			36	33			36	35	
	32	37			32	41			28	30	
	36	38			34	37			30	35	
	36	36			22	31			32	36	
	30	39			37	36			35	36	
	32	35			31	34			33	37	
	36	44			32	36			34	36	
	36	34			34	36			35	38	
	32	36			34	37			34	37	
	34	37			32	36			32	36	
	30	40			36	37			35	38	
	28	39			27	38			33	37	
	31	41			31	38			27	38	
	29	36			35	34			34	41	
Count	24	24	48		24	24	48		24	24	48
Sum	768	898	1666		770	855	1625		782	879	1661
Average	32	37.41667	34.70833		32.08333	35.625	33.85417		32.58333	36.625	34.60417
Variance	9.391304	8.253623	16.12589		17.9058	5.027174	14.42509		7.818841	4.940217	10.41445

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	20.84722	2	10.42361	1.172577	0.312633	3.061714
Variety	676	1	676	76.04483	7.89E-15	3.909733
Interaction	22.625	2	11.3125	1.27257	0.283377	3.061714
Error	1226.75	138	8.889493			
Total	1946.222	143				

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Lettuce: Telluride PVP **Core Diameter (mm)** **Castroville, California**
9/02/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	33	36		Rep2	35	37		Rep3	37	37	
	32	38			37	39			29	36	
	33	37			33	40			35	32	
	33	37			37	34			32	38	
	35	37			36	37			31	35	
	35	33			31	33			29	36	
	32	41			38	36			35	38	
	34	37			35	36			32	35	
	35	35			40	36			35	36	
	31	36			41	37			35	36	
	27	36			33	41			36	38	
	33	40			31	36			33	39	
	27	37			32	34			28	33	
	34	37			40	37			36	34	
	29	40			36	38			38	36	
	32	34			36	38			34	38	
	28	37			32	35			35	31	
	34	37			34	38			35	36	
	31	36			35	38			37	37	
	32	37			36	36			33	38	
	36	39			37	37			33	37	
	33	33			36	40			32	41	
	32	39			32	39			35	38	
	35	41			41	38			32	37	
Count	24	24	48		24	24	48		24	24	48
Sum	776	890	1666		854	890	1744		807	872	1679
Average	32.33333	37.08333	34.70833		35.58333	37.08333	36.33333		33.625	36.33333	34.97917
Variance	6.231884	4.688406	11.10461		9.036232	3.905797	6.907801		6.940217	5.014493	7.722961

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	72.76389	2	36.38194	6.094634	0.002908	3.061714
Variety	321.0069	1	321.0069	53.77447	1.73E-11	3.909733
Interaction	64.76389	2	32.38194	5.424561	0.005397	3.061714
Error	823.7917	138	5.969505			
Total	1282.326	143				

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Lettuce: Telluride PVP **Core Diameter (mm)** **Greenfield, California**
10/11/2002

	Diamond	Telluride			Diamond	Telluride			Diamond	Telluride	
Rep1	29	37		Rep2	33	39		Rep3	26	34	
	28	41			32	36			31	40	
	32	37			31	35			28	40	
	28	37			32	36			34	38	
	27	39			32	36			35	41	
	25	38			29	33			35	36	
	27	36			32	41			34	36	
	26	35			34	35			31	33	
	35	35			30	41			33	34	
	31	35			31	35			31	35	
	31	37			29	33			32	37	
	31	35			32	32			33	34	
	38	32			25	31			31	36	
	24	37			30	38			35	40	
	28	36			32	40			32	37	
	31	38			33	42			28	34	
	35	38			35	35			32	38	
	33	34			34	34			32	35	
	27	39			32	36			32	32	
	34	36			32	33			28	37	
	27	37			35	35			33	31	
	25	35			36	36			34	36	
	35	39			28	32			35	39	
	27	38			33	42			32	36	
Count	24	24	48		24	24	48		24	24	48
Sum	714	881	1595		762	866	1628		767	869	1636
Average	29.75	36.70833	33.22917		31.75	36.08333	33.91667		31.95833	36.20833	34.08333
Variance	14.36957	3.780797	21.24424		5.934783	10.60145	12.88652		6.041667	6.95471	10.97163

Anova: Two-Factor With Replication — Alpha=0.05

Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Reps	19.68056	2	9.840278	1.238213	0.293102	3.061714
Variety	966.1736	1	966.1736	121.5747	1.15E-20	3.909733
Interaction	56.93056	2	28.46528	3.581817	0.030442	3.061714
Error	1096.708	138	7.947162			
Total	2139.493	143				

2003018

Lettuce: Telluride PVP **Bolting Measurements** **Wasco, California**
August 7, 2002

	Seedstalk Height (cm)					Spread fo Bolter leaves (cm)			
	Diamond	Telluride				Diamond	Telluride		
	128	137				43	45		
	135	139				42	43		
	137	142				39	47		
	133	147				38	42		
	122	137				41	39		
	118	133				43	40		
	125	129				44	40		
	135	135				38	45		
	134	137				37	47		
	129	138				39	48		
	127	145				38	44		
	133	143				41	45		
	136	132				40	42		
	134	136				40	42		
	137	137				42	38		
	124	135				44	43		
	119	146				43	43		
	121	137				39	44		
	130	139				35	46		
	134	136				38	43		
	133	137				44	42		
	127	135				42	41		
	128	141				42	47		
	127	134				40	39		
	126	143				44	42		
	F-Test Two-Sample for Variances					F-Test Two-Sample for Variances			
		128	*137*				*43*	*45*	
	Mean	129.3333	138.0417			Mean	40.54167	43	
	Variance	33.36232	20.38949			Variance	6.346014	7.652174	
	Observatio	24	24			Observatio	24	24	
	df	23	23			df	23	23	
	F	1.636251				F	0.829309		
P(F<=f) one-tail		0.12257			P(F<=f) one-tail		0.328655		
F Critical one-tail		2.014424			F Critical one-tail		0.49642		

Lettuce: Telluride PVP **Bolting Measurements** **Wasco, California**
August 7, 2002

Seedstalk Height (cm)		Spread fo Bolter leaves (cm)	
Diamond	Telluride	Diamond	Telluride
128	137	43	45
135	139	42	43
137	142	39	47
133	147	38	42
122	137	41	39
118	133	43	40
125	129	44	40
135	135	38	45
134	137	37	47
129	138	39	48
127	145	38	44
133	143	41	45
136	132	40	42
134	136	40	42
137	137	42	38
124	135	44	43
119	146	43	43
121	137	39	44
130	139	35	46
134	136	38	43
133	137	44	42
127	135	42	41
128	141	42	47
127	134	40	39
126	143	44	42

F-Test Two-Sample for Variances

	128	*137*
Mean	129.3333	138.0417
Variance	33.36232	20.38949
Observatio	24	24
df	23	23
F	1.636251	
P(F<=f) one-tail	0.12257	
F Critical one-tail	2.014424	

F-Test Two-Sample for Variances

	43	*45*
Mean	40.54167	43
Variance	6.346014	7.652174
Observatio	24	24
df	23	23
F	0.829309	
P(F<=f) one-tail	0.328655	
F Critical one-tail	0.49642	

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REPRODUCE LOCALLY. Include form number and edition date on all reproductions. FORM APPROVED - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

RAP 5/9/05

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Beheer
ENZA ZADEN, ~~De Enkhuizer Zaadhandel BV~~

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
Exp. 1152A

3. VARIETY NAME
Telluride

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*
PostBus 7, 1600 AA Enkhuizen
Haling 1E, 1602 DB Enkhuizer
The Netherlands

5. TELEPHONE *(Include area code)*
USA: 831-623-4644
NL:+31-228-315844

6. FAX *(Include area code)*
USA:831-623-1746
NL:+31-228-315854

7. PVPO NUMBER 200300168

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** [ ] YES [X] NO

Holland

10. Is the applicant the original owner? [X] YES [ ] NO **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
[ ] YES [ ] NO **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
[ ] YES [ ] NO **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

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 0.1 hour per response, 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.

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200300168

ENZA ZADEN

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Fax: 831.6231746

To: Robin Davis
PVP Office
NAL Building, Room 400
10301 Baltimore Avenue
Beltsville, MD 20705

Date: May 4, 2005

Subject: payments

Dear Robin Davis,

I've enclosed two checks:

Check #6618, $190,- (5x$38,-)
To change applicants name from Enza Zaden De Enkhuizer Zaadhandel B.V. to Enza Zaden Beheer B.V. for the following numbers:

1) PVP# 9900259 (Ponderosa)
2) PVP#200100226 (Coastal Star)
3) PVP#200200046 (Durango)
4) PVP#200300168 (Telluride)
5) Added: PVP#9900254 (Silverado)

Addresses, etc. remain the same.

Check #6577, $432,-
payment certificate pvp# 9900259. I thought that we already sent this check but that was not the case.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Aemoudt Aardse
Enza Zaden Research USA

Office: 831-623-4644
Fax: 831-623-1746
Mobile: 831-710-0605
Email: a.aardse@coastalseeds.com

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