No. 7300001

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Keystone Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED 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 seventeen 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, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (PUBLIC LAW 91-577, 84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ONION

'Scanion'

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 *this* 15th *day of* November *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

ONION VARIETY ~~'1401'~~ 'Scanion'

Application No. 73001

Exhibit 12a

In 1963 a single non-bulbing plant was found in a large population of Southport White Globe. This single plant was selfed (S-1) in 1964. In 1966 a non-bulbing plant was selected from the progeny of (S-1) above and this plant was selfed (S-2). In 1968 the progeny from (S-2) were massed and this became the foundation seed for ~~'1401'~~ 'Scanion'.

Bulbing was a variant in the progeny of (S-1). It occurred at a low frequency. Three massed generations subsequent to (S-2) indicated stability for non-bulbing character south of 38 degrees north latitude.

ONION VARIETY '~~1401~~' 'Scanion'

Application No. 73001

Exhibit 12b

The seed of '~~1401~~' Scanion is similar to Southport White Globe except that it is slightly larger. Weight of 100 seeds of '~~1401~~' Scanion averages 0.48 grams while 100 seeds of Southport White Globe averages 0.41 grams. Seeds of '~~1401~~' Scanion are 3.5 mm long by 2.5 mm wide and 2 mm in thickness. They are dull black in color and roughly three sided with two pointed projections at the placental attachment end.

The cotyledon of 20 day old seedlings averages 11.1 cm. in length for '~~1401~~' Scanion and 9.7 cm. for Southport White Globe. At this same stage of growth the first true leaf of '~~1401~~' Scanion averages 13.2 mm while that of Southport White Globe averages 12.5 mm.

The inflorescence is similar to Southport White Globe except that umbels of '~~1401~~' Scanion are greater in diameter. '~~1401~~' Scanion averages 7.8 cm. across while that of Southport White Globe averages 7.0 cm. The maximum number of umbels per plant is two and the average is one. The umbels are relatively compact and the petals are white with a green stripe and the sepals pointed but not extremely so. The spathe has a medium to long beak. Umbel and seeds mature 10 days later than Southport White Globe.

The leaf of '~~1401~~' Scanion is similar to that of Southport White Globe both measuring 50 cm. in length and 8 mm. wide. The scape is slightly shorter on '~~1401~~' Scanion under good growing conditions but may be the same length when conditions are not too favorable for rapid growth.

The scape of '~~1401~~' Scanion has a bluish green appearance while that of Southport White Globe is green but lacks the bluish reflectance.

The torus of the umble of Southport White Globe is not as rounded as that of '~~1401~~' Scanion.

'~~1401~~' Scanion is bunching type onion and is best adapted south of 38 degrees North latitude under long day conditions.

The cured stage is of a medium size and similar to a torpedo-long oval as Italian Red. The color of the skin and of the interior is white like Southport White Globe. The scales are few and of medium thickness. Scale retention is good. Pungence is like Crystal Wax or Southport White Globe. Storage is poor.

The mature plant at flowering stage ususally has 1 scape but may also have a vestigial scape, while Southport White Globe usually has 2 scapes which will mature with an additional vestigial scape.

'~~1401~~' Scanion most closely resembles Southport White Globe in gross morphology of upper parts except that:

'~~1401~~' Scanion holds bunching stage much longer than Southport White Globe south of 38 degrees North latitude.

This we believe makes it a distinct variety. Also other points of distinction are:

1. Seed maturity is 10 days later
2. Diameter of umbels averages 7.8 cm. while that of Southport White Globe averages 7.0 cm.
3. The torus of the umbel is more rounded than in Southport White Globe
4. '~~1401~~' Scanion usually produces 1 scape and 1 vestigial scape while Southport White Globe usually produces 2 scapes with one vestigial.

ONION VARIETY '~~1401~~' Scanion

Application No. 73001

Exhibit 12d

Data Indicative of Novelty:

Novelty is based on the following characteristics:

'~~1401~~' Scanion most closely resembles Southport White Globe except that it does not form a bulb in area South of 38 degrees North latitude before prime bunching stage is passed; seed maturity is 10 days later; diameter of umbels in greater; torus of the umbel is more rounded; '~~1401~~' Scanion usually produces one scape while Southport White Globe usually produces two scapes.

ONION VARIETY '~~1401~~' Scanion

Application No. 73001

Exhibit 12e

Statement of Applicant's ownership

Keystone Seed Co. believes it is the sole, original and first breeder of '~~1401~~' variety of onion for which it solicits a certificate of protection.
Scanion

PLANT VARIETY PROTECTION CERTIFICATE

ASSIGNMENT

The Sunseeds Division of Agrigenetics Corporation, a Delaware corporation having a place of business at 3575 Mitchell Lane, Boulder, Colorado 80301 ("Agrigenetics"), represents that it is the owner of the entire right, title and interest in and to the plant variety protection certificates and applications for plant variety protection certificates shown below.

For good and valuable consideration, receipt of which is hereby acknowledged, Agrigenetics hereby assigns to UF Genetics, Inc., a Delaware corporation having a place of business at 9800 Fairview Road, Hollister, California 95024, Agrigenetics' entire right, title and interest in and to the following plant variety protection certificates and applications therefore, together with all Agrigenetics' rights to the sexually reproduced plants that are the subject of such certificates and applications:

I. Registered Certificates

Title	Certificate Number	Date
Empress	7900045	4/15/82
9014	Ap8100174	9/28/81
9293	Ap8100175	9/28/81
9400	Ap8200007	10/22/81
Paymaster	7600058	12/7/77
Lakeland	7600059	1/26/78
Triumph	7600061	12/30/77
Broker's Choice	8100175	4/28/83
Profit Maker	8100174	4/28/83
Shannon	8200007	4/28/83
Sunrise	7100029	6/24/74
Lake Shasta	7100030	8/12/74
Lake Erie	7100031	8/12/74
Rebel	7100033	9/30/74
Lake Superior	7100034	5/21/74
Miami	7100036	2/28/74
Lake Geneva	7200068	5/21/74
Scanion	7300001	11/15/74
Picoverde	7300016	4/10/73
Raider	7400069	7/26/74

Lake Largo	7400104	9/30/74
Lake Seneca	7500096	11/24/75
Chaparral	7600052	5/16/77
Costaverde	7600053	8/24/77
Gustoverde	7600054	8/24/77
Mesaverde	7600055	5/31/77
Conquest	7700058	7/26/77
Commander	7900067	7/26/79
Keygold	8000111	10/16/80
Snapbean, Exp.163	7600058	12/7/77
Snapbean, Exp.195	7600059	1/6/78
'Green Genes' Bean	7600060	12/7/77
Snapbean, Exp.116-0	7600061	12/30/77
Mikado (AVX 450)	Ap8400037	12/30/83
Mystro	8500064	4/16/85

II. Pending Certificate Applications

Title	Application Number	Filing Date
Cajun Queen	Pending	--
Mendota	Pending	--
Sunset	Pending	--
Alpine	Pending	--
Polaris	Pending	--

AGRIGENETICS CORPORATION

By: Murray Polinsky

Title: Executive Vice President

COMMONWEALTH OF MASSACHUSETTS)

County of Suffolk)

On this _____ day of April, 1986, before me appeared _____, the person who signed this instrument, who acknowledged that he signed it as a free act on behalf of Agrigenetics Corporation.

_____
Notary Public
My Commission Expires:

From Technology To Life

P.O. Box 1438, 2320 Technology Parkway, Building 11 Suite A, Hollister, CA 95024-1438 USA 408/636-9505 TWX 910-3720254

June 7, 1988

Kenneth H. Evans, Commissioner
Plant Variety Protection Office
National Agriculture
Library Building, Room 500
Beltsville, MD 20705

Re: Change of Assignment.

Dear Mr. Evans:

This letter is in reference to your correspondence to me, dated July 14, 1987. I wish to make it clear that this change of assignment is to indicate a name change only, from U.F. Genetics, Inc. to Sunseeds Genetics, Inc.

Also, in reference to 'Mystro' tomato, have Item 1 read Sunseeds Genetics, Inc. and issue the certificate to Sunseeds Genetics, Inc.

Enclosed please find a check in the amount of $170.00 to cover the cost of changing the certificates.

Title	Certificate No.	Date
Empress	7900045	4/15/82
9014	Ap8100174	9/28/81
9293	Ap8100175	9/28/81
9400	Ap8200007	10/22/81
Paymaster	7600058	12/7/77
Lakeland	7600059	1/26/78
Triumph	7600061	12/30/77
Broker's Choice	8100175	4/28/83
Profit Maker	8100174	4/28/83
Shannon	8200007	4/28/83
Sunrise	7100029	6/24/74
Lake Shasta	7100030	8/12/74
Lake Erie	7100031	8/12/74
Rebel	7100033	9/30/74
Lake Superior	7100034	5/21/74

Title	Certificate No.	Date
Miami	7100036	2/28/74
Lake Geneva	7200068	5/21/74
Scanion	7300001	11/15/74
Picoverde	7300016	4/10/73
Raider	7400069	7/26/74
Lake Largo	7400104	9/30/74
Lake Seneca	7500096	11/24/75
Chaparral	7600052	5/16/77
Costaverde	7600053	8/24/77
Gustoverde	7600054	8/24/77
Mesaverde	7600055	5/32/77
Conquest	7700058	7/26/77
Commander	7900067	7/26/79
Keygold	8000111	10/16/80
Snapbean, Exp. 163	7600058	12/7/77
Snapbean, Exp. 195	7600059	1/6/78
'Green Genes' Bean	7600060	12/7/77
Snapbean, Exp. 116-0	7600061	12/30/77
Mikado (AVX 450)	Ap8400037	12/30/83

Sincerely,

Gene Hookstra

Gene Hookstra
Vice President, Research

GH/mo

enc: Check
Copy of Correspondence from K.H. Evans

Agreement (the "Agreement"), a copy of which is attached hereto as "Exhibit A" and is incorporated herein by this reference. Under the terms of the Agreement, Sunseeds granted to Security Pacific, as Agent for Banks, a security interest in any and all right, title, and interest in, to, and under all Certificates of Plant Variety Protection granted to Sunseeds and/or any of its predecessors in interest, subsidiaries, and/or divisions, including, but not limited to, the following Certificates of Plant Variety Protection, copies of which are attached hereto as "Exhibit B":

Certificate Number	Date Issued	Grantee	Variety Protected
8800057	9-30-88	Sunseeds Genetics, Inc.	"Prima Belle" Pepper
8500064	9-30-87	Sunseeds Genetics, Inc.	"Mystro" Tomato
8300168	9-27-85	Sunseeds, A Division of Agrigenetics	"Cajun Queen" Okra
7900067	7-26-79	Keystone Seed Co., Inc.	"Commander" Lettuce
7600053	8-24-77	Keystone Seed Company	"Costaverde" Lettuce
7600055	5-31-77	Keystone Seed Company	"Mesaverde" Lettuce
7600052	5-16-77	Keystone Seed Company	"Chaparral" Lettuce
7300001	11-15-74	Keystone Seed Company	"Scanion" Onion

7300016	4-10-73	Keystone Seed Company	"Picoverde" Lettuce

6. In addition, under the terms of the Supplementary Security Agreement, Sunseeds has granted to Agent, on behalf of Banks, a security interest in any and all right, title, and interest in, to, and under all of Sunseeds' Applications for Plant Variety Protection currently pending with the United States Department of Agriculture, Plant Variety Protection Office, including, but not limited to, the following Applications, copies of which are attached hereto as "Exhibit C":

Application Number	Filing Date	Applicant	Variety
8900171	4-18-89	Sunseeds Genetics, Inc.	"White Diamond" Cauliflower
8700194	8-24-87	Sunseeds Genetics, Inc.	"Sunex 1643" Tomato

6. This Affidavit is to evidence the transfer of a security interest only, and does not reflect the transfer of any other interest in the above-referenced Certificates and Applications.

Dated: December 15, 1989.

Roderick N. Stacey

Roderick N. Stacey

AFFIDAVIT

Roderick N. Stacey, being first duly sworn, says:

1. I am the President and Chief Executive Officer of Sunseeds Genetics, Inc. ("Sunseeds"), a corporation organized and existing pursuant to the laws of the state of Delaware, and having its principal place of business in Hollister, California. I am authorized to make this affidavit on behalf of Sunseeds.

2. Sunseeds is a former division of Agrigenetics Corporation and is successor to certain Certificates of Plant Variety Protection granted to Agrigenetics Corporation, including, but not limited to, those Certificates listed in paragraph number five (5) of this affidavit which designate Agrigenetics Corporation as a grantee.

3. Sunseeds has acquired by merger or purchase all of the Certificates of Plant Variety Protection listed in Paragraph number five (5) of this affidavit.

4. Sunseeds, Security Pacific National Bank, ("Security Pacific"), Cooperatieve Centrale Raiffeisen-Boerenleenbank, B.A., New York Branch ("Rabobank Nederland"), and Caisse Nationale De Credit Agricole ("Credit Agricole") (Security Pacific, Rabobank Nederland, and Credit Agricole are collectively referred to as the "Banks") and Security Pacific as Agent for the Banks, are parties to a Credit Agreement dated as of January 6, 1989.

5. As of August 3, 1989, Sunseeds and Security Pacific as Agent for the Banks, entered into a Supplementary Security

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-16
(2-1-73)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Onions)

OBJECTIVE DESCRIPTION OF VARIETY

ONIONS (ALLIUM CEPA L.)

REFERENCES: *See Reverse.*

NAME OF APPLICANT(S)
Keystone Seed Co.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
P. O. Box 1438
Hollister, California 95023

FOR OFFICIAL USE ONLY

PVPO NUMBER
73001

VARIETY NAME OR TEMPORARY DESIGNATION
~~1401~~ Scanion

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. TYPE:

[2] 1 = BULB 2 = BUNCHING [2] 1 = SHORT DAY 2 = LONG DAY

[0][0] TO [3][8] DEGREES MEAN LATITUTE - ADAPTATION RANGE

[3] Maturity (days): 1 = EARLY (75 - 90) 2 = MEDIUM (100 - 120) 3 = LATE (> 130)

2. PLANT

[5][0] CM. HEIGHT ABOVE SOIL LINE TO HIGHEST POINT OF ANY FOLIAGE

[ ][ ] CM. TALLER THAN _____ (Comparable variety)

[0][8] CM. SHORTER THAN So.Port White / Globe (Comparable variety)

[1] 1 = ERECT (Spartan Gem) 2 = INTERMEDIATE 3 = FLOPPY (Epoch)

3. LEAF:

[3][6] CM. LONG (before maturity yellowing begins)

[0][8] MM. WIDE [0][8] MM. THICK AT MIDLENGTH OF LONGEST LEAF

[2] Color: 1 = LIGHT GREEN (Early Grano) 2 = MEDIUM GREEN (Yellow Bermuda) 3 = BLUE GREEN (Australian Brown U.C. No. 1)

[3] Bloom: 1 = NONE - glossy 2 = LIGHT (Early Grano) 3 = MEDIUM (Crystal Wax) 4 = HEAVY (California Early Red)

4. SHEATH:

[7][2] MM. COLUMN LENGTH (Height from soil line to base of lowest succulent leaf) [1][0] MM. DIAMETER AT MIDLENGTH

[9][4] Scape: CM. FROM SOIL LINE TO BASE OF INFLORESCENCE

[1][9] Scape: MM. DIAMETER AT MIDLENGTH

5. INFLORESCENCE:
Umbel (for seed production)

[2] MAXIMUM NO. PER PLANT [1] MINIMUM NO. PER PLANT [1] AVERAGE NO. PER PLANT

[7][8] MM. DIAMETER [1] 1. COMPACT 2 = LOOSE/OPEN 3 = SHAGGY

[1] Spathe: 1 = LONG BEAK 2 = SHORT BEAK [1] Flower Color: 1 = WHITE 2 = GREEN 3 = BRIGHT GREEN

[3] MM. ANTHER LENGTH

[4] Anther Color: 1 = LIGHT GREEN 2 = DARK GREEN 3 = YELLOW 4 = PALE YELLOW 5 = CHOCOLATE 6 = RED

[2] Pollen Viability: 1 = STERILE 2 = FERTILE [1] Sepal Shape: 1 = LONG POINTED 2 - ROUND SHORT

6

FORM GR-470
(12-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY
~~1401~~ Scanion	ONION	PV NUMBER 73001
3. GENUS AND SPECIES NAME: Allium cepa L.	4. FAMILY NAME *(Botanical)*: Liliaceae	FILING DATE 7.31.72 / TIME 3 P.M.
	5. DATE OF DETERMINATION: August 1968	FEE RECEIVED $250 $250 $250 / BALANCE DUE $ — $ — $ —

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Keystone Seed Co.	P. O. Box 1438 Hollister, California 95023	408 637-5781

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION
corporation	California	11/23/55

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:
Albert E. Braun
Keystone Seed Co.
P. O. Box 1438
Hollister, California 95023

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

[X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*

[X] 13B. Exhibit B, Botanical Description of the Variety

[X] 13C. Exhibit C, Objective Description of the Variety

[X] 13D. Exhibit D, Data Indicative of Novelty

[X] 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [ ] YES [X] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [ ] YES [X] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

July 25, 1972
(DATE)

James M. Chaney
(SIGNATURE OF APPLICANT)

Executive Vice Pres.
(SIGNATURE OF APPLICANT)*

(DATE)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.

13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.

13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

6. BULB:

[2][0] AVERAGE NUMBER BULBS PER METER

[2] Size (Harvest): 1 = SMALL (Red Creole) 2 = MEDIUM (Australian Brown U.C. No. 1) 3 = LARGE (Early Grano)

[8] Shape (see attached chart): 1 = GLOBE (White Sweet Spanish) 2 = DEEP GLOBE (Abundance) 3 = FLT. GLOBE (Australian Brn. U.C. No. 1) 4 = TOP SHAPE (Texas Grano 502) 5 = DEEP FLAT (Granex) 6 = THICK FLAT (Ebenezer) 7 = FLAT (Crystal Wax) 8 = TORPEDO-LONG OVAL (Italian Red)

[0][9] CM. HEIGHT ÷ [0][4] CM. DIAMETER = 2.25 SHAPE INDEX

[2] 1 = INVAGINATE 2 = EVAGINATE

[0][9] Color (Skin): 01 = BROWN (Australian Brn. U.C. No. 1) 02 = PURPLISH RED (Itanian Red) 03 = BUFF RED (Red Creole) 04 = PINKISH YELLOW (Ebenezer) 05 = BROWNISH YELLOW (Mt. Danvers) 06 = DEEP YELLOW (Brigham Yellow Globe) 07 = MEDIUM YELLOW (Early Yellow Globe) 08 = PALE YELLOW (Yellow Bermuda) 09 = WHITE (White Sweet Spanish) 10 = OTHER (Specify) _____

[4] Color (Interior): 1 = PINK 2 = RED 3 = PURPLISH-RED 4 = WHITE 5 = CREAM 6 = LIGHT GREEN-YELLOW 7 = DARK GREEN-YELLOW

[1] Scales: 1 = FEW (Crystal Wax) 2 = MEDIUM (Australian Brown U.C. No. 1) 3 = MANY (Sweet Spanish)

[2] Scales: 1 = THICK (Australian Brown U.C. No. 1) 2 = MEDIUM (Red Creole) 3 = THIN (Crystal Wax)

[2] Scale Retention: 1 = VERY GOOD (Australian Brn. U.S. No. 1) 2 = GOOD (Ebenezer) 3 = FAIR (Red Wethersfield) 4 = POOR (Crystal Wax)

[2] Pugence: 1 = MILD (Early Grano) 2 = MEDIUM (Crystal Wax) 3 = STRONG (White Creole)

[3] Storage: 1 = GOOD (Ebenezer) 2 = FAIR (Yellow Globe Danvers) 3 = POOR (Crystal Wax)

7. DISEASE RESISTANCE (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] BLACK MOLD	[0] NECK ROT	[0] PURPLE BLOTCH	[0] SMUT
[1] MILDEW	[0] PINK ROOT	[0] SMUDGE	[0] YELLOW DWARF

8. INSECT RESISTANCE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] THRIP [0] OTHER (Specify) _____

9. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY		CHARACTER	NAME OF VARIETY	
Leaf Height	Distinct	Variety	Flower Ball	Distinct	Variety
Leaf Color	"	"	Bulb Color	"	"
Leaf Bloom/Wax	"	"	Bulb Size	"	"
Flower Stalk	"	"	Bulb Shape	"	"
Maturity at Same Location	"	"			

REFERENCES

Jones, H. A. and Mann, L. K. 1963 – Onions and Their Allies, Interscience Publishers, Inc., New York

USDA Misc. Pub. No. 435, 1941 – Descriptions of Types of Principal American Varieties of Onions

Hayward, H. E., 1938 – The Structure of Economic Plants, McMillan, New York (Reprint 1967)

Ag Research, 7 (8):8 – Feb. 1959 – Branding Onion Outcasts

Salem, I. A. 1966 – Inheritance of Onion Bulb Shape, Iowa St. University – PhD thesis