TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis Vegetable Seeds, 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 DUCING 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

'Gulf Stream'

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 thirtieth day of January, in the year two thousand three.

[Signatures]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Attorn
Secretary of Agriculture
**Application for Plant Variety Protection Certificate**

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)</td>
<td>SEMINIS VEGETABLE SEEDS, INC.</td>
</tr>
<tr>
<td>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER</td>
<td>XP12124</td>
</tr>
<tr>
<td>3. VARIETY NAME</td>
<td>GULF STREAM</td>
</tr>
<tr>
<td>4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</td>
<td>37437 STATE HIGHWAY 16 WOODLAND, CA 95695 2700 Camino Del Sol Oxnard, CA 93030-7967</td>
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<tr>
<td>5. TELEPHONE (include area code)</td>
<td>530-666-0931</td>
</tr>
<tr>
<td>6. FAX (include area code)</td>
<td>530-668-0219</td>
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<tr>
<td>7. GENUS AND SPECIES NAME</td>
<td>Lactuca Sativa</td>
</tr>
<tr>
<td>8. FAMILY NAME (Botanical)</td>
<td>Sativa</td>
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<tr>
<td>9. CROP KIND NAME (Common name)</td>
<td>Lettuce</td>
</tr>
<tr>
<td>10. IF THE APPLICANT NAMED IS NOT A &quot;PERSON&quot;, GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name) Seminis Vegetable Seeds, Inc.</td>
<td></td>
</tr>
<tr>
<td>11. IF INCORPORATED, GIVE STATE OF INCORPORATION</td>
<td>California</td>
</tr>
<tr>
<td>12. DATE OF INCORPORATION</td>
<td>1934</td>
</tr>
<tr>
<td>13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS</td>
<td>Kenneth L. Dubas Genecorp Seeds, Inc. 910A Duncan Road San Juan Bautista, CA 95045</td>
</tr>
<tr>
<td>14. TELEPHONE (include area code)</td>
<td>408-623-0633</td>
</tr>
<tr>
<td>15. FAX (include area code)</td>
<td>408-623-9134</td>
</tr>
</tbody>
</table>

**16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)**

- [ ] Exhibit A. Origin and Breeding History of the Variety
- [ ] Exhibit B. Statement of Distinctness
- [ ] Exhibit C. Objective Description of the Variety
- [ ] Exhibit D. Additional Description of the Variety (Optional)
- [ ] Exhibit E. Statement of the Basis of the Applicant's Ownership
- [ ] 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)
- [ ] Filing and Examination Fee ($2,450)
- [ ] Filing and Examination Fee ($2,700), made payable to "Treasurer of the United States" (Mail to PVPO)

**17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED?**

- [X] YES ("Yes," answer Items 18 and 19 below)
- [ ] NO ("No," go to item 20)

**18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE "LIMITED AS TO NUMBER OF GENERATIONS?"**

- [ ] YES
- [ ] NO

**19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?**

- [ ] FOUNDATION
- [ ] REGISTERED
- [ ] CERTIFIED

**20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?**

- [X] YES ("Yes," give names of countries and dates)
- [ ] NO

Harvested seed sold 1-24-97.

21. The applicant(s) declare that a viable sample of basic seed of the variety will be 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 applicant(s) [are] the owner(s) 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.

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

**SIGNATURE OF APPLICANT (Owner(s))**

[Signature]

**NAME (Please print or type)**

Kenneth L. Dubas

**CAPACITY OR TITLE**

Director of Research

**DATE**

[Signature]

**SIGNATURE OF APPLICANT (Owner(s))**

[Signature]

**NAME (Please print or type)**

Kenneth L. Dubas

**CAPACITY OR TITLE**

Director of Research

**DATE**

[Signature]
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, D, (3) at least 2,500 viable untreated seeds, 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 $2,450 ($300 filing fee and $2,150 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 500, NAL Building, 10301 Baltimore Blvd., 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 $300 for issuance of the Certificate.

Plant Variety Protection Office
Telephone: (301) 504-5518

ITEM

16a. 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.

16b. 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;

(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

16d. 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.

16e. 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.

17. 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 labelled, 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).

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

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 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 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 Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705.

Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes 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. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, ORR, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0035 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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Gulf Stream originated from a cross made between El Toro and Montello. The cross was made in 1985 using El Toro as the Female parent and Montello as the Male parent.

The F1 seed was planted in Florida in November, 1985 on Corky Root infected ground. The plants were observed. The roots were observed and 6 selections were made based on the healthy or non-Corky Root infected roots. Cores were taken to the tissue culture lab and plants were regenerated from the cores. Seed was harvested from the regenerated plants and planted in Florida in 1986. The F2 plants were observed and selections were made based on heading ability, plant type, and non-infected roots. Cores were sent to the tissue culture lab and plants were regenerated from the cores. Seed was harvested from the regenerated plants and was planted in Florida in 1987.

The progeny was observed and plants were selected based on heading ability, head coverage, color and bolting tolerance. The cores were taken to the tissue culture lab and plants were regenerated. Seed was harvested from the regenerated plants and planted in San Juan Bautista, California in 1988. The progeny of the #2 plant selected in the previous generation was observed and selections were made based on heading ability, color, and bolting tolerance. The plants were allowed to reproduce and seed was harvested from the selected plants and planted in Huron, California in 1989. The progeny of the #4 plant harvested in the previous generation was observed and 4 plants were selected based on head formation, leaf type, and plant size. The selected plants were removed from the field and taken to the greenhouse, where they were allowed to reproduce. Seed from the selected plants was planted in Huron, California in 1990. The progeny of the #2 plant selected in the previous generation was observed and 2 selections were made based on bolting tolerance, leaf type, and heading ability. The selected plants were removed from the field and taken to the greenhouse where they were allowed to reproduce. Seed was harvested from the selected plants and was planted in Florida in 1991. The progeny of the #1 selected plant was observed. Two selections were made based on plant size and heading ability. Cores were sent to the tissue culture lab and plants were regenerated from the cores. Seed was harvested from the regenerated plants and was planted in Florida in 1992. The progeny of the #1 plant selected in the previous generation was observed. It appeared uniform and had desirable characteristics. Seed was increased in California in 1993 and an extensive trialing program began in Florida. Further increases were made in 1994 and 1997.

The variety is uniform and stable without any variants or off-types noted in the three sexual reproductions noted in 1993, 1994 and 1997.
Gulf Stream most closely resembles Raleigh but differs in having a larger head size than Raleigh and a brighter green color than Raleigh, as noted in Tables 1 and 2.
<table>
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<tr>
<th>PLANT #</th>
<th>HEAD DIAMETER (cm)</th>
<th>Gulf Stream</th>
<th>Raleigh</th>
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The information in Table 1, was accumulated at Basores Farms in Belleglade, Florida. The planting date was January 3, 1995.
TABLE 1-8

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<th>PLANT #</th>
<th>HEAD DIAMETER (cm)</th>
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<td>Raleigh</td>
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</tr>
<tr>
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1996 Season
Pro Farms, Belleglade, Florida
Planting date was February 16, 1996
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<th>RHS COLOUR CHART</th>
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The information in Table 2, was accumulated at Basores Farms in Belle Glade, Florida. The planting date was January 3, 1995. It was noted that 25 out of 25 plants showed a color difference.
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</tbody>
</table>

It was noted that 25 out of 25 plants showed a color difference.

1996 SEASON
ADDENDUM TO EXHIBIT B

In regards to Item 16, "Gulf Stream" differs from the female pattern of "El Toro" in having Corky Root Resistant, whereas "El Toro" does not. "El Toro" is a Salinas type lettuce and "Gulf Stream" is an Eastern type lettuce.

"Gulf Stream" differs from the male parent "Montello" in having a larger frame and Head Diameter. "Montello" is smaller in size than "Raleigh", which "Gulf Stream" is compared to.
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK AND SEED DIVISION

OBJECTIVE DESCRIPTION OF VARIETY
LETTUCE *Lactuca sativa*

FOR OFFICIAL USE ONLY

PUPA NUMBER

VARIETY NAME
GULF STREAM

EXPERIMENTAL DESIGNATION
XP12124

LOCATION OF THE TEST AREA IS:
BELLEGLADE, FLORIDA

COLOR SYSTEM USED:
RHS COLOUR CHART

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

COLOR
2
1 = White (Silver Grey)
2 = Black (Gray Brown)
3 = Brown (Amber)

LIGHT DORMANCY
2
1 = Light Required
2 = Light Not Required

HEAT DORMANCY
1
1 = Susceptible
2 = Not Susceptible

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

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

SHAPE OF FOURTH LEAF:

1 = Entire
2 = Crenate/Griwed
3 = Finely Dentate
4 = Moderately Dentate
5 = Coarsely Dentate
6 = Incised
7 = Lobed
8 = OTHER (specify)

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

GREEN COLOR:
1 = Yellow Green
2 = Light Green
3 = Medium Green
4 = Dark Green
5 = Blue Green
6 = Silver Green
7 = Gray Green
8 = OTHER (specify)

ANTHOCYANIN:
1 = Absent
2 = Margin Only
3 = Spotted
4 = Throughout
5 = OTHER (specify)

CONCENTRATION:
1 = Light
2 = Moderate
3 = Intense

ROLLING:
1 = Absent
2 = Present

CUPPING:
1 = Uncupped
2 = Slight
3 = Markedly

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

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

3
1 = Entire
2 = Crenate/Griwed
3 = Finely Dentate
4 = Moderately Dentate
5 = Coarsely Dentate
6 = Incised
7 = Lobed
8 = OTHER (specify)

3
1 = Flat
2 = Slight
3 = Medium
4 = Marked

3
1 = Yellow Green
2 = Light Green
3 = Medium Green
4 = Dark Green
5 = Blue Green
6 = Silver Green
7 = Gray Green
8 = OTHER (specify)

1
1 = Absent
2 = Margin Only
3 = Spotted
4 = Throughout
5 = OTHER (specify)

2
1 = Light
2 = Moderate
3 = Intense

2
1 = Absent
2 = Present

2
1 = Uncupped
2 = Slight
3 = Markedly

1
1 = None
2 = Apical Margin
3 = Lateral Margins
**MATURE LEAVES** (observe harvest-mature outer leaves):

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

<table>
<thead>
<tr>
<th>Margin</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incision Depth:</td>
<td>Absent/Shallow (Dark Green Boston)</td>
<td>Moderate (Vanguard)</td>
<td>Deep (Great Lakes 659)</td>
</tr>
<tr>
<td>Indentation:</td>
<td>Entire (Dark Green Boston)</td>
<td>Deeply Dentate (Great Lakes 659)</td>
<td>OTHER (specify)</td>
</tr>
<tr>
<td>Undulation of the Apical Margin:</td>
<td>Absent/Slant (Dark Green Boston)</td>
<td>Moderate (Vanguard)</td>
<td>Strong (Great Lakes 659)</td>
</tr>
<tr>
<td>Green Color:</td>
<td>Very Light Green (Bibb)</td>
<td>Medium Green (Great Lakes)</td>
<td>Very Dark Green</td>
</tr>
<tr>
<td>Anthocyanin (grown at or below 10 C):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution:</td>
<td>Absent</td>
<td>Margin Only (Big Boston)</td>
<td>Spotted (Calif, Cream Butter)</td>
</tr>
<tr>
<td>Concentration:</td>
<td>Light (Iceberg)</td>
<td>Moderate (Prize Head)</td>
<td>Intense (Ruby)</td>
</tr>
<tr>
<td>Size:</td>
<td>Small</td>
<td>Medium</td>
<td>Large</td>
</tr>
<tr>
<td>Glossiness:</td>
<td>Dull (Vanguard)</td>
<td>Moderate (Salinas)</td>
<td>Glossy (Great Lakes)</td>
</tr>
<tr>
<td>Blistering:</td>
<td>Absent/Slant (Salinas)</td>
<td>Moderate (Vanguard)</td>
<td>Strong (Prize Head)</td>
</tr>
<tr>
<td>Leaf Thickness:</td>
<td>Thin</td>
<td>Intermediate</td>
<td>Thick</td>
</tr>
<tr>
<td>Trichomes:</td>
<td>Absent (smooth)</td>
<td>Present (spiny)</td>
<td></td>
</tr>
</tbody>
</table>

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

Spread of Frame Leaves:
- 40 cm This Variety
- 14 cm Raleigh (specify comparison variety)

Head Diameter (market trimmed with single core leaf):
- 16 cm This Variety
- 14 cm Raleigh (specify comparison variety)

Head Shape:
- 1: Flattened
- 2: Slightly Flattened
- 3: Spherical
- 4: Elongate
- 5: Non-Heading
- 6: OTHER

Head Size Class:
- 1: Small
- 2: Medium
- 3: Large

Head Count Per Carton
- 898 g This Variety
- Raleigh (specify comparison variety)

Head Firmness:
- 1: Loose
- 2: Moderate
- 3: Firm
- 4: Very Firm

Butt (bottom of market-trimmed head):
- 3: Slightly Concave
- 2: Flat
- 1: Rounded

Midrib:
- 1: Flattened (Salinas)
- 2: Moderately Raised
- 3: Prominently Raised (Great Lakes 659)

Core (stem of market-trimmed head):

- 3.2 mm Diameter at base of head
- Ratio of head diameter/core diameter
- 4.5 mm This Variety
- 3.8 mm Raleigh (specify comparison variety)

Bolting (Give First Water Date 4-16-94):
- NOTE: First Water Date is the date seed first receives adequate moisture to germinate. This can and often does equal the planting date.
- 76 This Variety
- Raleigh (specify comparison variety)

Number of days from First Water Date to seed stalk emergence (summer conditions):
- 2
- 3: Medium
- 4: Rapid
- 5: Very Rapid

Height of mature seed stalks:
- 121 cm This Variety
- Raleigh (specify comparison variety)
| BOLTER LEAVES: | 1=Straight | 2=Curved |
| MARGIN:       | 1=Entire   | 2=Dentate |
| COLOR:        | 1=Light Green | 2=Medium Green | 3=Dark Green |
| BOLTER HABIT: |             |           |
| TERM. INFLORESCENCE: | 1=Absent | 2=Present |
| LATERAL SHOOTS: (above head) | 1=Absent | 2=Present |
| BASAL SIDE SHOOTS: | 1=Absent | 2=Present |

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

**NOTE:** Complete this section for at least one season.

<table>
<thead>
<tr>
<th>SEASON</th>
<th>Applic./# of days</th>
<th>Check/# of days</th>
<th>CHECK VARIETY #1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>6 1</td>
<td>5 9</td>
<td>RALEIGH</td>
</tr>
<tr>
<td>Winter</td>
<td>7 2</td>
<td>7 0</td>
<td>RALEIGH</td>
</tr>
</tbody>
</table>

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

- **Spring:** NOT ADAPTED
- **Summer:** NOT ADAPTED
- **Fall:** 10-3-96 BELLEGLADE, FLORIDA
- **Winter:** 12-3-96 BELLEGLADE, FLORIDA

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

10. ADAPTATION:

**PRIMARY REGIONS OF ADAPTATION (tested and proven adapted):**

<table>
<thead>
<tr>
<th>PRIMARY REGION</th>
<th>0=Not tested</th>
<th>1=Not Adapted</th>
<th>2=Adapted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southwest (Calif., Ariz. desert)</td>
<td>1</td>
<td>West Coast 0</td>
<td>Northeast</td>
</tr>
<tr>
<td>Northcentral 0</td>
<td>2</td>
<td>Southeast</td>
<td>OTHER</td>
</tr>
</tbody>
</table>

**SEASON:**

<table>
<thead>
<tr>
<th>SEASON</th>
<th>PRIMARY REGION</th>
<th>0=Not tested</th>
<th>1=Not Adapted</th>
<th>2=Adapted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>(area)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>(area)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>(area)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winter</td>
<td>(area)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GREENHOUSE:**

<table>
<thead>
<tr>
<th>0=Not tested</th>
<th>1=Not Adapted</th>
<th>2=Adapted</th>
</tr>
</thead>
</table>

**SOIL TYPE:**

<table>
<thead>
<tr>
<th>1=Mineral</th>
<th>2=Organic</th>
<th>3=Both</th>
</tr>
</thead>
</table>

FORM LS-470-1 (9-86)
### Diseases and Stress Reactions

<table>
<thead>
<tr>
<th>Virus</th>
<th>Fungal/Bacterial</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0</strong> Big Vein</td>
<td><strong>4</strong> Corky Root Rot (Pythium Root Rot)</td>
</tr>
<tr>
<td><strong>1</strong> Lettuce Mosaic</td>
<td><strong>0</strong> Downy Mildew (Races)</td>
</tr>
<tr>
<td><strong>0</strong> Cucumber Mosaic</td>
<td><strong>1</strong> Powdery Mildew</td>
</tr>
<tr>
<td><strong>0</strong> Broad Bean Wilt</td>
<td><strong>0</strong> Sclerotinia Rot</td>
</tr>
<tr>
<td><strong>0</strong> Turnip Mosaic</td>
<td><strong>0</strong> Bacterial Soft Rot (Pseudomonas spp. &amp; others)</td>
</tr>
<tr>
<td><strong>0</strong> Beet Western Yellows</td>
<td><strong>0</strong> Botrytis (Gray Mold)</td>
</tr>
<tr>
<td><strong>0</strong> Lett. Infectious Yellows</td>
<td><strong>□ OTHER</strong></td>
</tr>
<tr>
<td><strong>□ Other Virus</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Insects

<table>
<thead>
<tr>
<th>Insects</th>
<th>Physiological/Stress</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0</strong> Cabbage Loopers</td>
<td><strong>2</strong> Tipburn</td>
</tr>
<tr>
<td><strong>0</strong> Root Aphids</td>
<td><strong>0</strong> Salt</td>
</tr>
<tr>
<td><strong>0</strong> Green Peach Aphid</td>
<td><strong>0</strong> Heat</td>
</tr>
<tr>
<td><strong>□ Other Insect</strong></td>
<td><strong>0</strong> Brown Rib (Rib Discoloration, Rib Blight)</td>
</tr>
</tbody>
</table>

### Post Harvest

<table>
<thead>
<tr>
<th>Post Harvest</th>
<th>Biochemical or Electrophoretic Markers:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0</strong> Pink Rib</td>
<td><strong>□ Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)</strong></td>
</tr>
<tr>
<td><strong>0</strong> Russet Spotting</td>
<td><strong>0</strong> Brown Stain</td>
</tr>
<tr>
<td><strong>0</strong> Rusty Brown Discoloration</td>
<td></td>
</tr>
</tbody>
</table>

### Biochemical or Electrophoretic Markers:

### Comments:

### Suggested Check Varieties

<table>
<thead>
<tr>
<th>Type</th>
<th>Check Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Cutting/Leaf</td>
<td>Salad Bowl</td>
</tr>
<tr>
<td>2) Butterhead</td>
<td>Dark Green Boston</td>
</tr>
<tr>
<td>3) Bibb</td>
<td>Bibb</td>
</tr>
<tr>
<td>4) Cos. Or Romaine</td>
<td>Parris Island</td>
</tr>
<tr>
<td>5) Great Lakes Group</td>
<td>Great Lakes 659-700</td>
</tr>
<tr>
<td>6) Vanguard Group</td>
<td>Vanguard</td>
</tr>
<tr>
<td>7) Imperial Group</td>
<td>Viva</td>
</tr>
<tr>
<td>8) Eastern Group</td>
<td>Ithaca</td>
</tr>
<tr>
<td>9) Stem</td>
<td>Celtuce</td>
</tr>
<tr>
<td>10) Latin</td>
<td>Matchless</td>
</tr>
</tbody>
</table>
# Statement of the Basis of Ownership

<table>
<thead>
<tr>
<th>Name of Applicant(s)</th>
<th>Seminis Vegetable Seeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>37437 State Highway 16, Woodland, CA 95695</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temporary Designation or Experimental Number</th>
<th>Gulf Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone (Include area code)</td>
<td>916-666-0931</td>
</tr>
<tr>
<td>Fax (Include area code)</td>
<td>916-668-0219</td>
</tr>
<tr>
<td>PVPO Number</td>
<td>9800087</td>
</tr>
</tbody>
</table>

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate box. If no, please explain.

- [X] Yes  
- [ ] No

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

- [X] Yes  
- [ ] No

10. Is the applicant the original breeder? If no, please answer the following:

   a. If original rights to variety were owned by individual(s):
      Is (are) the original breeder(s) a U.S. national(s)? If no, please provide name of country.
      - [ ] Yes  
      - [X] No

   b. If original rights to variety were owned by a company:
      Is the original breeder(s) U.S. based company? If no, please provide name of country.
      - [X] Yes  
      - [ ] No

11. Additional explanation on ownership (if needed, use reverse for extra space):

**Please Note:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of 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 breeder, both the original breeder and the applicant must meet one of the above criteria.

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