first generation grown from breeder seed in the region of adaptation. Certified seed (Syn-2 or Syn-3) may be grown only from breeder or foundation seed. Breeder seed will be maintained by the Nebraska Agricultural Experiment Station. The National Certified Alfalfa Variety Review Board issued a favorable report on the application for certification of Dawson in December 1966.

REGISTRATION OF MARCONEE BARLEY
(Reg. No. 93)
Doyce Graham, Jr., W. P. Byrd, and E. B. Eskew

'MARCONEE' (Hordeum vulgare L. emend. Lam.), CI 8107 was selected by H. W. Webb of Maret Farm and Seed Company, Westminster, S. C. from a cross of 'Hooded' 'x' 'Wong' made in 1942 by S. J. Hadden. It was released in 1962 because of strong straw, and moderate resistance to mildew. In 1952 South Carolina Agricultural Experiment Station assumed responsibility for maintenance of planting seed.

MARCONEE is a five-rowed awnleted or partially hooded facultative winter barley; early growth erect to semi-prostrate; early to midseason; mid-tall to tall; lemma awn short--on central rows from 0 to 3 cm long, on lateral rows from 0 to 0.5 cm long; hoods sometimes occurring on central florets, rarely on lateral florets, when present usually rudimentary, sessile, or sub sessile. A detailed description has been published.1

MARCONEE was grown extensively during the period 1954 to 1963 in South Carolina and to a lesser extent in North Carolina and Georgia. It has now been replaced by 'Early MARCONEE.'

Table 1. Yields and test weights of Early MARCONEE relative to other varieties for the years 1960, 1961, 1962, and 1963 in three test locations in South Carolina.

<table>
<thead>
<tr>
<th>Year</th>
<th>Test weight, kg/ha</th>
<th>Yield, bu/a</th>
</tr>
</thead>
<tbody>
<tr>
<td>1960</td>
<td>Early MARCONEE</td>
<td>62.0</td>
</tr>
<tr>
<td>1961</td>
<td>MARCONEE</td>
<td>65.0</td>
</tr>
<tr>
<td>1962</td>
<td>'Ga-240'</td>
<td>66.1</td>
</tr>
</tbody>
</table>

1Registered by Crop Science Society of America. Received Aug. 4, 1967.
2 Assistant Professor of Agronomy and Soils, Professor of Experimental Statistics, and Associate Professor of Agromy and Soils, Clemson University, Clemson, S.C.

REGISTRATION OF EARLY MARCONEE BARLEY
(Reg. No. 94)

'EARLY MARCONEE' (Hordeum vulgare L. emend. Lam.), CI 10884, is South Carolina selection SC57-2703. It was selected from 'MARCONEE' (CI 8107, Reg. 93), by W. P. Byrd in 1957 at Clemson, S. C. and released in 1962. Early MARCONEE is 2 to 3 days earlier than MARCONEE and is more uniform with respect to early spring growth type and maturity than MARCONEE. Early MARCONEE has disease reaction similar to MARCONEE being susceptible to leaf rust, scald, and loose smut and moderately resistant to powdery mildew. EARLY MARCONEE is similar to MARCONEE in morphological characteristics.

Table 1. Comparative performance of seed flax varieties grown at two locations in the Imperial Valley, California, 1961-1964.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield, kg/ha</th>
<th>Wilt rating</th>
<th>Oil content</th>
<th>Iodine value</th>
<th>Plant ht., cm</th>
<th>Kernel wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dunes</td>
<td>5140</td>
<td>Resistant</td>
<td>40</td>
<td>114</td>
<td>64</td>
<td>5.6</td>
</tr>
<tr>
<td>New River</td>
<td>3111</td>
<td>Resistant</td>
<td>41</td>
<td>108</td>
<td>52</td>
<td>5.8</td>
</tr>
<tr>
<td>Imperal</td>
<td>3143</td>
<td>Susceptible</td>
<td>41</td>
<td>101</td>
<td>51</td>
<td>3.90</td>
</tr>
</tbody>
</table>

1 Registered by Crop Science Society of America. Received Aug. 4, 1967.
2 Assistant Professor of Agronomy and Soils, Professor of Experimental Statistics, Associate Professor of Agronomy and Soils, and Associate Professor, Department of Botany and Bacteriology, Clemson University, Clemson, S. C.

REGISTRATION OF DUNES FLAX
(Reg. No. 28)
Benjamin H. Beard, George F. Worker, Jr., and George H. Abel

'DUNES' flax, (Linum usitatissimum L.) CI 2432 was developed at the Southwestern Irrigation Field Station, Brawley, Calif., by the Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture, in cooperation with the University of California. It was released as a variety in 1964.

The original cross (B5128 x 'Punjab 47') was made in the early 1950's and the variety 'New River' was selected and released in 1958. Dunes was selected at a later time from the same cross.

Dunes has blue flowers, indehiscent bolls, and brown seed. It grows to a height of about 45 to 50 cm (10 to 20 inches) and is an Indian type. It is resistant to Fusarium oxysporum var. lini. The seeds have a higher oil content than 'New River' or 'Imperial' and the oil has a higher iodine value than oil from New River or Imperial as shown in Table 1. The yield has been higher than New River and seed damage from combining has been less.

Table 1. Comparative performance of seed flax varieties grown at two locations in the Imperial Valley, California, 1961-1964.

<table>
<thead>
<tr>
<th>Variety</th>
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<tr>
<td>Imperial</td>
<td>3143</td>
<td>Susceptible</td>
<td>41</td>
<td>101</td>
<td>51</td>
<td>3.90</td>
</tr>
</tbody>
</table>

1 Registered by Crop Science Society of America. Cooperative investigations between the California Agricultural Experiment Station and the Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture. Received July 5, 1967.
2 Research Agronomist, Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture, Brawley, Calif.; Associate Specialist in Agronomy, Imperial Valley Field Station, University of California, El Centro; and Research Agronomist, Crops Research Division, Agricultural Research Service, U.S. Department of Agriculture, Mesa, Arizona, respectively.

Dunes is adapted to the low desert climate of the southwestern United States, particularly the Imperial Valley of California.

Seed stocks are maintained by the California Crop Improvement Association.

Additional details of performance and breeding have been published by Beard, Worker, and AbeP.

Doyce Graham, Jr., W. P. Byrd, and E. B. Eskew²

1Registered by Crop Science Society of America. Received Aug. 4, 1967.
2Assistant Professor of Agronomy and Soils, Professor of Experimental Statistics, Associate Professor of Agronomy and Soils, and Associate Professor, Department of Botany and Bacteriology, Clemson University, Clemson, S. C.