Notice of Release of Custer Soybean

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The Crops Research Division, Agricultural Research Service, and the cooperators listed above announce the release of a new phytophthora- and cyst nematode-resistant soybean variety named Custer. Custer is the second cyst nematode-resistant variety to be released. It is earlier than the previously released variety Pickett.

Custer was developed at Missouri Agricultural Experiment Station from the cross \( \frac{1}{2} (\text{Scott}^4 \times \text{Peking})^3 \times \left( \frac{i}{4} \text{Rhg}^4 \text{line from Scott}^2 \times \text{Peking} \right) \times (\text{Scott}^9 \times \text{Blackhawk})^7 \times (\text{Scott}^5 \times \text{Peking}) \). Custer, designated prior to its release as S5, is a composite of 23 resistant F4 lines.

Custer has purple flowers, gray pubescence and yellow seeds with imperfect black hila. It was tested in the regional Uniform Tests in 1966 by research workers of the U. S. Regional Soybean Laboratory, Crops Research Division, and cooperating experiment stations in the area where Group IV varieties are adapted. The performance at 6 locations in Custer's area of adaptation in Illinois and Missouri are as follows:

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (Bu/A.)</th>
<th>Mat. Date</th>
<th>Lodging Score</th>
<th>Ht. In.</th>
<th>Seed Quality Score</th>
<th>Seed Wt. g/100</th>
<th>Percentage Protein Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clark 63</td>
<td>44.0</td>
<td>40.3</td>
<td>9-30</td>
<td>2.1</td>
<td>41</td>
<td>2.4</td>
<td>18.0</td>
</tr>
<tr>
<td>Kent</td>
<td>47.4</td>
<td>43.6</td>
<td>10-7</td>
<td>1.7</td>
<td>41</td>
<td>2.1</td>
<td>19.8</td>
</tr>
<tr>
<td>Scott</td>
<td>43.7</td>
<td>40.9</td>
<td>10-8</td>
<td>2.2</td>
<td>45</td>
<td>2.2</td>
<td>15.2</td>
</tr>
<tr>
<td>Custer</td>
<td>43.5</td>
<td>41.4</td>
<td>10-4</td>
<td>2.6</td>
<td>48</td>
<td>2.2</td>
<td>15.5</td>
</tr>
</tbody>
</table>

Breeders seed will be increased in Ky by the University of Kentucky Foundation Seed Project.

J. F. Shane
S. H. Phillips
The Crops Research Division will not increase and distribute seed to growers. Each agency will be responsible for its own publicity with the understanding that the date for simultaneous release will be February 6, 1967.

/S/ M. B. RUSSELL
Director, Illinois
Agricultural Experiment Station
Date Jan. 16, 1967

/S/ Charles E. Barnhart
Director, Kentucky
Agricultural Experiment Station
Date Feb. 1, 1967

/S/ Elmer R. Kiehl
Director, Missouri
Agricultural Experiment Station
Date Jan. 12, 1966

/S/ H. Rex Thomas
Director,
Crops Research Division
Date Feb. 3, 1967