REGISTRATION OF REGO WHEAT
(Reg. No. 451)

E. R. Hehn and C. R. Haun

'Rego' (Triticum aestivum L. em. Thell.) C.I. 13358, is a solid-stemmed, hard red winter wheat with resistance to the wheat-stem sawfly (Cephalonomia nigripes) and with moderate resistance to stripe rust (Puccinia striiformis West.). It is resistant to some races of bunt, and has some resistance to loose smut. It was developed cooperatively by the Montana Agricultural Experimental Station, the Crops and Entomology Research Divisions, Agricultural Research Service, U. S. Department of Agriculture.

Rego was selected from the cross 'Yoke' × 'Rescue' made at the Montana State Agricultural Station in 1946. The F2 populations were selected for sawfly resistance and winterhardiness. Re-selection within these lines followed, and Montana 56-28 (later named Rego) was a composite of four F2 lines. Rego was released by the Montana Agricultural Experiment Station in 1957.

Rego is mid-season, tall; stems white, weak; spikes awnleted, fusiform, lax, inclined to nodding; glumes glabrous, white, mid-long, mid-wide; shoulders narrow, oblique to rounded; beaks mid-wide, acute to obtuse, 0.5 mm long; awns white, 2 to 15 mm long; kernels red, mid-long, hard, ovate; germ mid-sized to small; crease mid-wide, shallow; cheeks rounded; brush mid-sized, mid-long.

Pure seed is maintained by the Montana Agricultural Experiment Station and the Montana Seed Growers Association.

REGISTRATION OF ITANA WHEAT
(Reg. No. 450)

E. R. Henn and H. K. Klages

'Itana' (Triticum aestivum L. em. Thell.), C.I. 12933, was developed from a cross of Blackhull-Rex × Cheyenne. The cross was made at the Sherman Branch Experiment Station, Moro, Oregon, in 1942. Itana was released by the Montana Agricultural Experiment Station in 1956 and by the Idaho Agricultural Experiment Station in 1957.

Itana is resistant to the races of bunt and dwarf bunt that were prevalent in the Pacific Northwest at the time of release. It is susceptible to race D-3 of dwarf bunt. It is susceptible to stem rust, leaf rust and stripe rust. Except for damage by snow mold, winter hardiness of Itana has been ample for dryland production in the Pacific Northwest.

In milling and baking quality, Itana is superior to Watsch, Cache, and Turkey. In test weight it is equal to the same varieties or higher.

Morphological characteristics of Itana have been described as follows: 2 winter growth habit, midseason, mid-tall; stems white, mid-strong; spikes awned, fusiform, mid-wide, inclined; glumes glabrous, brown (light brown), short, narrow to mid-wide; shoulders mid-wide, square to rounded; beaks mid-wide, acute to obtuse, 0.5 mm long; awns white, 2 to 15 mm long; kernels red, mid-long, hard, ovate; germ mid-sized to small; crease mid-wide, shallow; cheeks rounded; brush mid-sized, mid-long.

Pure seed is maintained by the Montana Agricultural Experiment Station and the Montana Seed Growers Association.

* Registered by the Crop Science Society of America. Received March 18, 1966. Published with the approval of the Director of the Montana Agr. Exp. Sta. as Paper No. 735, Journal Series.

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REGISTRATION OF FULTON WHEAT
(Reg. No. 452)

C. A. Lamb, Howard N. Lafever, and Lewis C. Saboe

'Fulton' wheat (Triticum aestivum L. em. Thell.) C.I. No. 13358, is a soft red winter wheat selected from a bulk hybrid in the F2 generation from the cross 'Butler' × 'Thorne'. It was developed at the Ohio Agricultural Research and Development Center and named and released in 1964.

Fulton is a midlaid, midseason-maturity variety with strong purple stems. Auriicles are white with hairs sparse. It is awnless except extreme apicalawns 10-15 mm. Spike is fusiform, mid-wide, erect to inclined. Glumes are glabrous, white, mid-long, mid-wide with shoulder mid-wide, square to inclined; beak mid-wide, obtuse, 1-2 mm range. Kernel is red, mid-long, chalky and elliptical. Germ is large.

Fulton is adapted to Ohio and immediate vicinity. The variety withstands the heaving type of winter in uery well. It has been higher in yield over a 9-year period, with 72 tests, than other commercial varieties in Ohio (Table 1).

Table 1. Yield and test weight of 3 wheat varieties at 13 locations covering a period of 9 years in Ohio.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Location</th>
<th>Yield</th>
<th>Test weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fulton</td>
<td></td>
<td>56.7</td>
<td>58.9</td>
</tr>
<tr>
<td>Seneca</td>
<td></td>
<td>58.7</td>
<td>56.9</td>
</tr>
<tr>
<td>Geneva</td>
<td></td>
<td>52.6</td>
<td>58.9</td>
</tr>
</tbody>
</table>

Milling and baking qualities are excellent. Fulton shows immunity to loose smut races presently in Ohio. It is similar in maturity and height to Seneca.

* Registered by the Crop Science Society of America. Received March 26, 1966.

Professor and Assistant Professor, Ohio Agricultural Research and Development Center, and Professor, Cooperative Extension Service, Ohio State University, respectively.