Registration of Crop Varieties

WOCUS BARLEY¹

(Reg. No. 80)

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¹Registered under a memorandum of understanding between the Crops Research Division, ARS, USDA, and the American Society of Agronomy.
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'WOCUS' (Hordeum vulgare L., emend Lam.), CI 8059, (Utah B130-78-10) was developed at the Utah Agricultural Experiment Station in cooperation with the Crops Research Division, Agricultural Research Service, U. S. Department of Agriculture. Wocus originated as a selection from the cross Coast X Lion 2 X Winter Club made by R. W. Woodward at Logan, Utah, and entered in the Rocky Mountain Uniform Barley Nursery in 1949. Tests at the Klamath Experiment Station, Klamath Falls, Oregon, showed that Wocus was well adapted to the organic soils in the area. Wocus was named and released by the Oregon Agricultural Experiment Station in 1958. In 1964 Wocus was grown on 16% of the barley acreage in Klamath and 20% of the acreage in Jackson and Josephine counties. Wocus also has proved popular in the Tule Lake area of California.

Wocus is a six-rowed, hulled, smooth-awned spring barley. Wocus has a dense, mid-long, parallel spike with a tough rachis, and the straw is short and stiff. The kernels are white; long and the hulls are slightly wrinkled. Wocus is classed as a feed barley. Because of its early maturity, Wocus is able to escape serious frost damage at critical times in the Klamath area of Oregon.

Yield comparisons of Wocus and Hannchen for the Klamath area of Oregon are given in Table 1.

Table 1. Performance of Wocus and Hannchen Barleys at 3 locations in the Klamath Falls area of Oregon from 1950 to 1964.

<table>
<thead>
<tr>
<th>Variety</th>
<th>CI no.</th>
<th>Yields, pounds per acre</th>
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<tbody>
<tr>
<td></td>
<td>Lower lake (8 yr.)</td>
<td>Upper lake (11 yr.)</td>
</tr>
<tr>
<td>Wocus</td>
<td>8059</td>
<td>2021</td>
</tr>
<tr>
<td>Hannchen</td>
<td>531</td>
<td>2402</td>
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The Klamath Experiment Station, Klamath Falls, Oregon, maintains a small supply of foundation seed and certified seed is available from local growers and seedsmen. Yields of over 8,000 pounds per acre have been reported by growers from highly productive soils in the Tule Lake area of California.

Additional information about Wocus has been published by Wiebe and Reid.

NIAGARA OATS¹

(Reg. No. 194)

N. F. Jensen³

¹Registered under a memorandum of understanding between the Crops Research Division, ARS, USDA, and the American Society of Agronomy. Received August 6, 1965.
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'NIAGARA' (Avena sativa L.), CI 7528, was developed at the Cornell University Agricultural Experiment Station from the cross, CI 6589 X 'Goldwin' X 'Victoria' X 'Rainbow' X 'Branch', made at Ithaca by N. F. Jensen in 1952. CI 6589 is the Cornell selection, Garry Sel. 5, from the original Garry variety. The Goldwin 2X, Victoria X Rainbow parent is CI 7211. Known dur-

ing testing as N.Y. Sel. 2797 (Reg. No. 80), Niagara received wider

¹Registered under a memorandum of understanding between the Crops Research Division, ARS, USDA, and the American Society of Agronomy. Received August 11, 1965.
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evaluation in cooperative tests conducted by the USDA and other experiment stations.

Niagara was approved for release in October 1960, and the first commercial distribution of certified seed took place in the spring of 1964 when approximately 100,000 bushels were planted. The recognized classes of seed are breeder, foundation, registered, and certified.

Niagara is a medium late, mid-tall spring oat with white kernels of high quality. At maturity fields have a golden brown color. Niagara has shown no smut in several years of tests with seed inoculated with a composite of New York smut collections. It carries the AB genes for stem rust resistance. Compared with the standard commercial variety, Garry, Niagara is more resistant to lodging, 2% higher yielding, and has heavier grains; on the debit side it is 2 days later in maturity and one-half pound per bushel lighter in test weight; the two varieties are of equal height. Additional information on Niagara was reported by Jensen, Crowder, Kent, and Tyler.

ORI OATS¹

(Reg. No. 195)

N. F. Jensen³

¹Registered under a memorandum of understanding between the Crops Research Division, ARS, USDA, and the American Society of Agronomy. Received August 27, 1965.
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