

MAY 30 1978

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UNITED STATES DEPARTMENT OF AGRICULTURE
SCIENCE AND EDUCATION ADMINISTRATION
WASHINGTON, D. C.

MAY 25 1978

and

IDAHO AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF IDAHO
MOSCOW, IDAHO

and

OREGON AGRICULTURAL EXPERIMENT STATION
OREGON STATE UNIVERSITY
CORVALLIS, OREGON

RELEASE OF 'KIMBERLY' (C.I. 15687)
A NEW TWO-ROWED SPRING MALTING BARLEY VARIETY

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The Science and Education Administration, U.S. Department of Agriculture and the Idaho and Oregon Agricultural Experiment Stations announce the joint release of 'Kimberly' (C.I. 15687), a two-rowed spring malting barley variety, to farmers and seedsmen for commercial production. Kimberly was developed cooperatively by the Science and Education Administration, U.S. Department of Agriculture and the Idaho Agricultural Experiment Station. Kimberly has been recommended by the Malting Barley Improvement Association (MBIA) as an acceptable malting and brewing variety subject to acceptance by industry in future commercial production.

Kimberly is from a cross of Pirolina/CI 3038. It originated at Aberdeen as an advanced generation selection from 61Ab4965. It was first tested in replicated trials in 1972 and entered in the Western Spring Barley Nursery in 1975. The USDA Barley and Malt Laboratory cooperated in testing of malting quality. Plant-scale evaluations of malting and brewing quality were initiated in 1975 in cooperation with the MBIA. Great Western Malting Company assisted with the field-scale barley increases for plant-scale tests.

Kimberly is similar to 'Klages' in agronomic characteristics. It averaged higher than Klages in yield in irrigated trials at Aberdeen, Twin Falls, Tetonia, and Rexburg, Idaho in 1972-77 with an overall yield advantage of 3.8% in 26 trials at these locations. The yield advantage at Aberdeen and Twin Falls amounted to only 2.5 and 3.6% respectively; however, Kimberly averaged 9.7% higher than Klages in yield in three years of irrigated testing at Tetonia. Kimberly averaged 5.1% higher than Klages in yield in 10 station-years of testing in the Western Spring Barley Nursery at five locations in Oregon. It averaged 5.3% higher than Klages in yield in 63 station-years of testing in the Western Spring Barley Nursery in 1975-77.

Kimberly has been similar to Klages in test weight, plump barley %, height, and lodging in southern Idaho irrigated trials. It heads one or two days

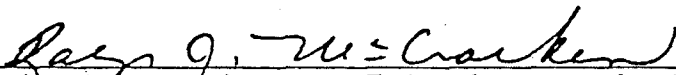
later than Klages at Tetonia and an average of two and one-half days later at Aberdeen. In regional trials conducted in 1975-76 it averaged three days later than Klages.

Kimberly has not been tested extensively in nonirrigated or dryland trials in southern Idaho but available data suggest it will be similar to Klages in agronomic performance. In nonirrigated trials in the Palouse and Camas Prairie areas of northern Idaho it compared favorably with Klages in yield. In trials near Nez Perce in 1975-76, it averaged 6.3% higher than Klages and equaled 'Steptoe' in yield. In four trials at Moscow and Grangeville in 1975-77, it averaged 9.7% higher than Klages, 6.1% higher than 'Vanguard', and about 12% lower than Steptoe in yield.


Kimberly is a two-rowed, midseason, white-aleurone, Klages-type spring malting barley. It has lax, midlong to long spikes with rough awns and long rachilla hairs. Available data indicate that Kimberly is similar to Klages in malting quality.

Breeder and foundation seed of Kimberly will be maintained by the Tetonia Research and Extension Center, Tetonia, Idaho. Seed may be obtained by writing to Glenn Carnahan, Superintendent, Research and Extension Center, P.O. Box 72, St. Anthony, Idaho 83445. Foundation seed will be available from the Idaho and Oregon Crop Improvement Associations. The U.S. Department of Agriculture has no seed for distribution.

Each agency will make news releases as considered appropriate on or after the release date, May 15, 1978.

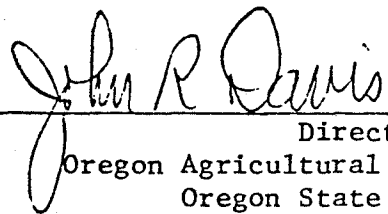

Acting Deputy Director, Federal Research, SEA

4/25/78
Date



Director
Idaho Agricultural Experiment Station
University of Idaho
Moscow, Idaho

5/15/78
Date



Director
Oregon Agricultural Experiment Station
Oregon State University
Corvallis, Oregon

4/7/78
Date