Chemung is superior to other varieties in a West Virginia sheep feeding trial for intake, digestibility, and palatability (5).

Chemung is similar in growth habit and form to Emerald. It is coarser than Penngift, grows taller, and has larger leaves. Chemung seedlings are more vigorous than Penngift. The seed of Chemung is generally lighter in color and larger than Penngift. Chemung has appeared to be better adapted to low fertility site conditions in the Northeast than Emerald.

Breeder and foundation seed are maintained by the Soil Conservation Service and cooperative state agencies.

**Literature Cited**


**REGISTRATION OF HOLDEN OATS**

(Reg. No. 224)

R. A. Forsberg, H. L. Shands, and Z. M. Arawinko

'Holden' oats (Avena sativa L.), C.I. 7978, Wis. X643-75, was developed and released by the Wisconsin Agricultural Experiment Station. It was selected at Madison from the cross 'Clintland' 3 × 'Garry' 2 × 'Hawkeye' × 'Victoria' from which 'Goodfield' (8), 'Dodge' (9), and 'Garland' (10) also were derived. Foundation seed was distributed to growers of certified seed in 1968. This variety was named after the late Prof. E. D. Holden who had an active interest in the Wisconsin Crop Improvement Association for more than 40 years.

The first cross was made in 1935, the second in 1947, and the third in 1952. The F2 generation was grown in Mexico in 1954-55 through the cooperation of the Crop Quality Council. F3 lines were then produced at Madison in 1955. Plant selection for desirable agronomic and disease reactions continued through the F3 generation in 1957. The composite of seeds from plants in an F3 line harvested in 1958 became Holden. Garland and Holden were derived from the same F2 line. Holden has been in nursery yield trials at Madison since 1960, in Wisconsin Experiment Station trials since 1962, and was in the Cooperative Uniform Midseason Oat Performance Nursery from 1963 through 1967 (3, 4, 5, 6, 7).

Holden has very attractive kernels which are plump and yellow. Test weight per bushel is high. Forage, ears, and panicles are moderately compact, but not as well as Lodi or Boulder. Holden is about 2.54 cm (1 inch) taller, its straw lodging, but not as well as Lodi or Goodfield. Holden is about 2.54 cm (1 inch) taller, its straw lodging, but not as well as Lodi or Goodfield. Holden is about 2.54 cm (1 inch) taller, its straw lodging, but not as well as Lodi or Goodfield. Holden has appeared to be better adapted to low fertility site conditions in the Northeast than Emerald.

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