the causal organisms of net blotch (Pyrenophora teres Drechs.),
scald [Rhynchosporium secalis (Oudem.) J.J. Davis], spot blotch
[Cochliobolus sativus (Ito & Kuribayashi) Drechs. ex Dastur], seps-
toria leaf blotch (Septoria passerinii Sacc.), and barley yellow
dwarf (BYDV).

Starling has better winter hardiness than ‘Nomini’, but is not as
hardy as ‘Wysoz’. Spike emergence of Starling is 1 d later than
Wysoz and 2 d earlier than ‘Boone’. Starling is similar to Wysoz
in plant height and straw strength. Grain yields of Starling in 49
trials conducted in Virginia from 1987 to 1995 averaged 5700 kg
ha⁻¹, which is similar to that of Nomini and 10% higher than that
of Wysoz. Grain volume weight of Starling (595 kg m⁻³) is
similar to that of Nomini, but slightly less than that of Wysoz (605
kg m⁻³).

In the Uniform Winter Barley Yield Nursery consisting of 15
to 20 entries grown in 9 to 11 states, Starling ranked 7th for grain
yield in 1989, 2nd in 1990, and 5th in 1991. Starling is adapted
throughout Virginia, and generally should perform well in areas
where Wysoz and Boone have been grown. This cultivar also has
performed well in tests conducted in the Coastal Plain and Pied-
mont regions of North Carolina.

Breeder seed of Starling will be maintained by the Virginia
Agricultural Experiment Station under the auspices of the Depart-
ment of Crop and Soil Environmental Sciences, Virginia Polytech-
nic Institute and State University, Blacksburg. Authorized seed
classes are foundation, registered, and certified. Foundation seed
will be produced and distributed by the Virginia Crop Improve-
ment Association via the Foundation Seed Farm, Box 78, Mount
Holly, VA 22524. U.S. plant variety protection has been granted
for this cultivar.

A. M. PRICE, C. A. GRIFFEY,* W. L. SISSON,
AND D. E. BRANN (1)

References and Notes
1. A.M. Price, C.A. Griffey, W.L. Sisson, and D.E. Brann, Crop and Soil
Environmental Sciences Dep., Virginia Polytechnic Inst. and State Univ.,
Blacksburg, VA 24061. Registration by CSSA. Accepted 29 Feb. 1996.
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Registration of ‘Callao’ Barley

Callao (Reg. no. CV-267, PI 592800) six-row winter feed barley
(Hordeum vulgare L.) was developed by the Virginia Agricultural
Experiment Station and released in March 1994. Callao originated
from the cross ‘Boone’/‘Henry’/‘Sussex’, which was completed in
1981. Callao was derived in 1987 as an F₇ headrow selection using
a modified bulk breeding system.

Callao is a short, early-maturing, six-row winter feed barley
with high grain volume weight. Early growth is prostrate, and
adjacent plants intermingle. Spike emergence of Callao is 8 cm
early than ‘Starling’ and Boone. Plant height of Callao (81 cm)
is 8 cm shorter than Barsoy, and 13 to 20 cm shorter than
Pamunkey, Starling, Nomini, and Boone. Straw length is similar
to Boone, but less than that of Barsoy, Nomini, and Boone. In the
Uniform Winter Barley Yield Nursery consisting of 15
in Virginia from 1991 to 1995 averaged 6075 kg
ha⁻¹, similar to ‘Barsoy’ in the mid-Atlantic region. Callao
is moderately susceptible to leaf rust (caused by
Puccinia hordei Blumeria (Puccinia graminis preva-
lent pathotypes of the causal organisms of powdery mildew
and wrinkled, with long-haired rachillas.

Callao was evaluated for 3 yr (1992–1994) in the Uniform
Winter Barley Yield Nursery. In all 3 yr, Callao
gain yield, with average yields exceeding the
10%. Among the hulled barleys, Callao ranked
volume weight, with average test weights of 8.7
Callao performed well in the mid-Atlantic and southeastern regions, particularly in Virginia, Georgia, North Carolina, Tennessee, and Texas.

Breeder seed of Callao will be maintained by the
Agricultural Experiment Station under the auspices of the Crop and Soil Environmental Sciences, Virginia Polytechnic Institute and State University, Blacksburg. Authorized seed classes are foundation, registered, and certified. Foundation seed will be produced and distributed by the Virginia Crop Improvement Association via the Foundation Seed Farm, Box 78, Mount Holly, VA 22524. Application for U.S. plant variety protection has been granted for this cultivar.

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References and Notes

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Registration of ‘Pamunkey’ Barley

Pamunkey (Reg. no. CV-71, PI 589600) six-row winter feed barley
(Hordeum vulgare L.) was developed by the Virginia Agricultural
Experiment Station and released in March 1994. Pamunkey originated
from the cross ‘Boone’/‘Henry’/‘Sussex’, which was completed in
1981. Pamunkey was derived in 1987 as an F₇ headrow selection using
a modified bulk breeding system.

Pamunkey is a short, early-maturing, six-row winter feed barley
with high grain volume weight. Early growth is prostrate, and
adjacent plants intermingle. Spike emergence of Pamunkey is 8 cm
earlier than ‘Starling’ and Boone. Plant height of Pamunkey (81 cm)
is 8 cm shorter than Barsoy, and 13 to 20 cm shorter than
Pamunkey, Starling, Nomini, and Boone. Straw length is similar
to Boone, but less than that of Barsoy, Nomini, and Boone. In the
Uniform Winter Barley Yield Nursery consisting of 15
in Virginia from 1991 to 1995 averaged 6075 kg
ha⁻¹, similar to ‘Barsoy’ in the mid-Atlantic region. Pamunkey
is moderately susceptible to leaf rust (caused by
Puccinia hordei Blumeria (Puccinia graminis preva-
lent pathotypes of the causal organisms of powdery mildew
and wrinkled, with long-haired rachillas.

Pamunkey was evaluated for 3 yr (1992–1994) in the Uniform
Winter Barley Yield Nursery. In all 3 yr, Pamunkey
gain yield, with average yields exceeding the
10%. Among the hulled barleys, Pamunkey ranked
volume weight, with average test weights of 8.7
Pamunkey performed well in the mid-Atlantic and southeastern regions, particularly in Virginia, Georgia, North Carolina, Tennessee, and Texas.

Breeder seed of Pamunkey will be maintained by the
Agricultural Experiment Station under the auspices of the Crop and Soil Environmental Sciences, Virginia Polytechnic Institute and State University, Blacksburg. Authorized seed classes are foundation, registered, and certified. Foundation seed will be produced and distributed by the Virginia Crop Improvement Association via the Foundation Seed Farm, Box 78, Mount Holly, VA 22524. Application for U.S. plant variety protection has been granted for this cultivar.

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