Registration of Varieties

REGISTRATION OF BIG CLUB 43 AND BIG CLUB 60 WHEATS
(Reg. Nos. 418 and 419)

C. A. Suneson

Big Club 43, CI 12244, a soft, white spring wheat, is a product of the cooperative wheat breeding investigations of the California Agricultural Experiment Station and the Agricultural Research Service of the U.S. Department of Agriculture. It was the first wheat in America with a multiple recombination of known genes for rust, stem rust, and hessian fly resistance. These were put in an old variety by backcross breeding. Big Club 43 was developed from multiple crossing of (Hope × Baart*) × Big Clubb  with (Dawson × Big Club*) × (Martin × Big Clubc). The F1 lines were subjected to independent severe bunt, stem rust, and hessian fly attack from which 144 lines with triple resistance were recovered. These were composited as Breeder's seed. This was first distributed in 1944.

Big Club 43 now has more classic than economic interest. Acceptance of the Improved Big Club 43 has been good. The Big Club type, because of late maturity, is recommended in California only on heavy and wet soils where wind shattering is also serious. It is interesting, however, that its triple resistance has remained protective through 16 years of use. This is best documented as regards hessian fly in the Rio Vista area with a prior race 11. Severe damage occurred on White Federation 38 and Ramona 50, which remained protective through 1952, when race 11 became established. Severe damage occurred on White Federation 38 and Ramona 50, which remained protective through 1952, when race 11 became established. The persistance of enduring hessian fly resistance has been attributed to the presence of 3 genotypes (HhHhHhHh, HhHhHhHh, or hhhHhHh) among the 144 component lines in Big Club 43.

Big Club 60, CI 13643, is a soft, white spring wheat produced by the cooperative wheat breeding investigations of the California Agricultural Experiment Station and the Agricultural Research Service of the U.S. Department of Agriculture. The best rust-resistant lines of Big Club 43 and a previously discarded purple-straw line of Big Club 43 which gives added protection from yellow dwarf virus were crossed. After multiple sib crossings and appropriate selection from 1954 to 1960, 103 lines were bulked to constitute the variety. Big Club 60 has additional rust resistance and yellow dwarf virus tolerance in California but is otherwise similar to Big Club 43 and is expected to replace that variety. It can only be distinguished from Big Club 43 by its purple-tinted straw. The variety was released in 1960 and foundation seed is maintained by the California Experiment Station.

REGISTRATION OF LAKE WHEAT
(Reg. No. 421)

A. G. Kusch

Lake Wheat, C.A.N. 3729, CI 13413, was developed by cross Regent × Canus, made at the Canada Agricultural Farm, Scott, Saskatchewan, Canada, in 1945. The cross H-44 × Reward, is a hard red spring wheat of good milling and baking quality. Canus originated from a cross Regent × Canus, made at the Canada Agricultural Farm, Scott, Saskatchewan, Canada, in 1945. The cross H-44 × Reward, is a hard red spring wheat of good milling and baking quality. Canus originated from the cross Regent × Canus, made at the Canada Agricultural Farm, Scott, Saskatchewan, Canada.

Lake is a medium late-maturing variety with strong, medium straw. The spike is fusiform, mid-long with long awns. The chaff is white and pubescent; beaks are short and acute; shoulders mid-wide, square to sloping. Kernel of medium size and red in color; the crease is short and the cheeks angular.

Lake is resistant to prevalent races of common and moderately susceptible to loose smut. It is resistant to stem rust but susceptible to 15B races and to leaf rust. It possesses good drought resistance, has good milling and baking quality. Canus originated from the cross Regent × Canus, made at the Canada Agricultural Farm, Scott, Saskatchewan, Canada.

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REGISTRATION OF PEMBINA AND CANTHATCH WHEATS
(Reg. Nos. 422 and 423)

A. B. Campbell

Pembina, R.L. 2814, CI 13332, was developed by the Cooperative Wheat Breeding Project Group, centered at the Canada Department of Agriculture, Research Institute, Adelaide, South Australia, in 1945. The cross H-44 × Reward, is a hard red spring wheat of good milling and baking quality. Canus originated from the cross Regent × Canus, made at the Canada Agricultural Farm, Scott, Saskatchewan, Canada.

Lake is a medium late-maturing variety with strong, medium straw. The spike is fusiform, mid-long with long awns. The chaff is white and pubescent; beaks are short and acute; shoulders mid-wide, square to sloping. Kernel of medium size and red in color; the crease is short and the cheeks angular.

Lake is resistant to prevalent races of common and moderately susceptible to loose smut. It is resistant to stem rust but susceptible to 15B races and to leaf rust. It possesses good drought resistance, has good milling and baking quality.