Registration of 'AC Earlired'
Small Red Dry Bean

'AC Earlired' (Reg. no. CV-161, PI 604102) is a small red dry bean (*Phaseolus vulgaris* L.) developed at the Agriculture and Agri-Food Canada Lethbridge Research Centre, Alberta, in cooperation with the Agriculture and Agri-Food Canada Morden Research Centre, Manitoba, and released in 1998. It is an early-maturing small red dry bean cultivar, suited to the wide-row (standard) production system used in western Canada. AC Earlired has a Type IIIb, indeterminate growth habit, with very short vines, and low pod distribution. Registration number 4791 was issued for AC Earlired on 10 July 1998 by the Variety Section, Plant Products Division, Canadian Food Inspection Agency.

AC Earlired, tested as L94D186, was derived from a cross made in 1989 between the small red dry bean cultivar Ember, from Rogers NK (now Novartis), released in 1986 (M. Wood, personal communication), and 5217, an experimental small red line from the University of Idaho. The F1 was grown in the greenhouse and advanced to a space-planted F2 nursery at the Fairfield Farm near Lethbridge in Alberta. The F3 was field grown in single-plant progeny rows and a single-plant selection was identified for its earliness and uniform red seed coat color. The F4, which was grown in 1992 in the field at Lethbridge, was hailed out. Plant no. 34 was an F4 plant, from the remnant seed of the F3 selection in 1991. This plant was greenhouse-grown, as part of a rescue operation, in the winter of 1992–1993. The F5 row No. 1 was selected from a nursery grown in 1993 at Bow Island, Alberta, 100 km east of Lethbridge, in the heart of the southern Alberta irrigated dry bean production region. This row was bulk-harvested and entered into yield tests. At this stage, it received the experimental line number L94D186. A series of yield tests followed: both wide-row (60 cm) and narrow-row (18 cm) at Lethbridge and wide-row at Morden. From 1995 to 1997, L94D186 was tested in the Prairie Bean Cooper Wide Row Trial, which is part of the official bean registration trials in western Canada, in a total of 18 trials (12 irrigated and 6 rainfed). Fifty single-plant selections made in 1996–1997 among greenhouse-grown plants of this line at Lethbridge were grown at Twin Falls, southern Idaho, in 1997. Breeder seed was produced in Arizona in early 1998. All 50 lines were bulked.

AC Earlired proved particularly promising in wide-row tests due to its early maturity, while producing yields comparable to that of the small red check cultivar, NW63 (1). In 10 irrigated trials, with coefficients of variation for yield below 20%, AC Earlired matured in 105 d and with yields of 2920 kg ha⁻¹, compared with a corresponding 105 d and 2971 kg ha⁻¹ for NW63.

The seed of AC Earlired (at 140 g kg⁻¹ moisture) averaged 32.2 g 100 seed⁻¹ over 11 of the 12 irrigated sites, similar in mass to that of NW63, at 32.1 g 100 seed⁻¹. The dry seed color is red, similar to that of NW63. Plant height of AC Earlired averaged over 8 irrigated trials was 36.9 cm, compared with 41.6 cm of NW63, and lodging at maturity averaged over 10 irrigated trials was 2.1 and 2.5, respectively (with 1 = upright and 5 = flat on the ground).

AC Earlired has been released on an exclusive basis, through a licensing arrangement with the Alberta Wheat, Barley, and Oats Unit (Box 96, Bow Island, AB, Canada T0L 1X0). Pedigreed seed may be purchased. Small sample of AC Earlired may be obtained from the corresponding author for at least 5 years.

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References and Notes


3. H.-H. Mündel and H.C. Huang, Agriculture and Agri-Food Canada Lethbridge Research Centre, P.O. Box 3000, Lethbridge, Alberta T1J 4W1, Agriculture and Agri-Food Canada, Agriculture and Agri-Food Canada Potatoes and Table Fruits Research Centre, 102 Box 20280, Fredericton, NB, Canada E3B 4Z7; and the Agriculture and Agri-Food Canada Research Centre, Morden, MB, Canada R6M 1Y5. LRC Contribution by the Variety Identification Unit (Box 96, Bow Island, AB, Canada T0L 1X0).

Registration of 'AC Alberta Pink'

‘AC Alberta Pink’ (Reg. no. CV-160, PI 604103) is a pink dry bean (*Phaseolus vulgaris* L.) developed at the Agriculture and Agri-Food Canada Lethbridge Research Centre, in cooperation with the Agriculture and Agri-Food Canada Morden Research Centre, Manitoba, and released in 1998. It is an early-maturing, high-yielding, large-seeded pink dry bean cultivar, suited to the wide-row (standard) production system used in western Canada. AC Alberta Pink has a Type IIIb, indeterminate growth habit, with more erect growth, with a narrower profile and fewer basal branches than standard cultivars, and good resistance to both early blight and common blight (caused by *Pythium ultimum* f. sp. *Pseudomonas syringae* Bercovich). Registration number 4798 was issued for AC Alberta Pink on 23 July 1998 by the Variety Section, Plant Products Division, Canadian Food Inspection Agency.

AC Alberta Pink, tested as L94C274, was derived in 1988, with the following parentage: 'ISB473'/4/'NW63'/3/Kentwood'. The dry bean was registered in 1982, with resistance to *Fusarium solani* (Mart.) Sacc. f. sp. *Phaseolus* (Snyder & H.N. Hans.) and with dark leaves. AC Alberta Pink has been registered in 1986, selected for its taller, more erect growth, with a narrower profile and fewer basal branches than standard cultivars, and good resistance to both early blight and common blight (caused by *Pseudomonas syringae* Bercovich). Registration number 4798 was issued for AC Alberta Pink on 23 July 1998 by the Variety Section, Plant Products Division, Canadian Food Inspection Agency.

AC Alberta Pink, tested as L94C274, was derived in 1988, with the following parentage: 'ISB473'/4/'NW63'/3/Kentwood'. The dry bean was registered in 1982, with resistance to *Fusarium solani* (Mart.) Sacc. f. sp. *Phaseolus* (Snyder & H.N. Hans.) and with dark leaves. AC Alberta Pink has been registered in 1986, selected for its taller, more erect growth, with a narrower profile and fewer basal branches than standard cultivars, and good resistance to both early blight and common blight (caused by *Pseudomonas syringae* Bercovich). Registration number 4798 was issued for AC Alberta Pink on 23 July 1998 by the Variety Section, Plant Products Division, Canadian Food Inspection Agency.