Lesoy 273 was selected as a productive early maturing line of excellent height and moderate seed protein level in soybean breeding programs. Small seed samples are available for breeding and other research purposes upon written request, which should include the agreement to provide acknowledgement of the source in publications reporting results from the use of this material. Seed requests should be addressed to the Plant Gene Resources of Canada, Building 75, Agriculture Canada Plant Research Center, Ottawa, ON K1A 0C6, Canada, indicating accession no. PGR 17224.

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REGISTRATION OF SOYBEAN GERMPLASM LINE LESOY 273

The soybean [Glycine max (L.) Merr.] (Reg. no. GP-92) germplasm line Lesoy 273 was released because of its productivity and higher seed protein levels than in 'Maple Amber'. It originated as an F6 line from the cross 'Williams'/3/'Wayne'/0-52-903/'Portage'/4/840-7-3. Line 0-52-903 is an Ottawa selection from the Swedish breeding line 753-1 (USDA-PI 194.654) from the cross Typ XX Stamm 9/'Namikawa'/8/'Pagoda'. The Swedish breeding line 840-7-3 is a selection from the cross of Muncheberg (680 + 993 + 994)//Typ XX Stamm 9/'Namikawa'. Lesoy 273 was developed cooperatively by the Agriculture Canada Research Stations at Lethbridge, Alberta (with financial support from Alberta Agriculture) and Ottawa, Ontario, Canada. The final cross was made at Ottawa, where the F1 and F2 generations were produced. Selection in F1 and F2, and F3, was carried out at Lethbridge, with F3 and F4 generations grown in Puerto Rico.

Lesoy 273 averaged 41.9% seed protein (37 locations, 1983-1985), compared with the cultivar Maple Amber at 40.6% and 'McCall' at 38.6%. Oil levels were 18.9, 19.9, and 18.5%, respectively.

Lesoy 273 is of Group 00 maturity, averaging 1 day earlier than Maple Amber (Agriculture Canada licence no. 2111, dated 1981) and 5 days earlier than McCall (1). Seed yield of Lesoy 273 averaged 97.7% of that of Maple Amber (over 36 location-years in the short-season areas of Canada extending roughly from 45-50°N). Mature plant height averaged 69 cm (compared with 65 for Maple Amber and 68 for McCall). Lesoy 273 lodged moderately. Plants have an indeterminate plant type, tawny pubescence, brown pods, and white flowers. Seeds are yellow with dark brown hilum, and an average weight of 164 mg. Plants have good resistance to shattering. Under heavy infections by phytophthora rot, caused by Phytophthora megasperma Drechs f. sp. glycinea Kuan and Erwin, field resistance is moderate (better than that of McCall and slightly less than that of Maple Amber).

Lesoy 273 is being released for use as a productive early maturing line of excellent height and moderate seed protein level in soybean breeding programs. Small seed samples are available for breeding and other research purposes upon written request, which should include the agreement to provide acknowledgement of the source in publications reporting results from the use of this material. Seed requests should be addressed to the Plant Gene Resources of Canada, Building 75, Agriculture Canada Plant Research Center, Ottawa, ON K1A 0C6, Canada, indicating accession no. PGR 17224.

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