

SYRINGA (Approved 1989)
(Soft White Winter Wheat)

Applicant: Plant Breeders I, Inc
851 East 7th
Moscow, ID 83843

ITEM L. Description of 'Syringa' to be published by AOSCA

'Syringa' originated as an F4 single plant selection from a bulk population derived from crosses between Pacific northwest adapted wheats and CIMMYT wheats. 'Syringa' gives superior yields in the soft white winter wheat growing areas of Idaho, Washington and Oregon.

'Syringa' is an awned, semi-dwarf, winter wheat with good lodging resistance, plant color at booting blue-green, heading mid-early averaging 1 day earlier than 'Daws' and 3 days later than 'Stephens', flag leaf at heading erect and twisted. 'Syringa's' first leaf below flag leaf tends to be longer than the comparable leaf of 'Daws' or 'Stephens'. 'Syringa' has field resistance to stripe rust and is moderately susceptible to leaf rust and mildew. 'Syringa' is a soft white winter wheat.

Seed classes for multiplication will be limited to breeders seed, foundation, registered and certified. Certified seed will be available in 1989. Application for Plant Variety Protection has been made. 'Syringa' will be sold by variety name only as a class of certified seed.

ITEM B: Origin and breeding history of 'Syringa'

A bulk from hundreds of heads from F2 plants (this F2 source resulted from multiple crosses among many different parents) was obtained by Plant Breeders 1 Inc. from the CIMMYT, Oregon State University International Winter Wheat Breeding Program in 1978. PB1 1, Inc. grew this diverse population as an F3 bulk (1979) and as an F4 bulk (1980). In the F4 generation (1980) scores of single plant selections, including the selection destined to become 'Syringa', were made. These selections were entered into a screening nursery the following season (1981). The F4 single plant selection destined to become 'Syringa', along with other selections, was entered into preliminary, intermediate and advanced PB1 yield nurseries in succeeding years. In 1983 'Syringa' was head hilled to select for line uniformity. A second round of head hilling was done in 1987 in preparation for the 1988 breeders seed increase. 'Syringa', which is composed of 135 separate sub-lines bulked together, is stable and uniform.

ITEM C. Botanical description of 'Syringa'

'Syringa' is a soft white winter wheat, *Triticum aestivum* L.

When seeded at Culdesac, Idaho, on or about October 5, 'Syringa's' average heading date is May 29, or 3 days later than 'Stephens'. 'Syringa's' coleoptile color is white; juvenile growth erect; color at booting blue-green. 'Syringa' averages 88 cm in height, that being 1 cm taller than 'Stephens'.

'Syringa' has yellow anthers; stems, after heading, lack anthocyanin, have a waxy bloom, are hollow with 4 nodes; have a length of 23 cm between flag leaf and first leaf below. The last rachis internode has hairs on the edge.

'Syrina's' auricles have anthocyanin and hairs. Its flag leaf at booting is erect, twisted; flag leaf sheath waxy. First leaf below flag leaf is glabrous, 14 mm wide and 27 cm long. Head is awned, lax, strap, blond colored at maturity, 12 cm long, 15 mm wide. Glumes are long, wide; shoulders wanting to oblique; beak acuminate.

'Syringa's' seed is ovate to elliptical; cheek rounded; brush short non-collared; amber to white in color; 7 mm long, 3 mm wide; phenol reaction brown; seed crease width 80% of kernal, depth 20% of kernal.