

origin: United States. **developed:** T.J. Martin. **origin institute:** Kansas Agric. Exp. Station, Fort Hays Branch Exp. Station, Hays, Kansas 67601-9228 United States. **origin institute id:** KS92WGRC25. **pedigree:** Yilmaz - 10/KS84HW196//Dodge. **other id:** KS92H334. **remarks:** Russian Wheat Aphid (RWA) resistant, red seeded, awned, white glumed, semidwarf, hard winter wheat. Tested in 1992 Preliminary Yield Test. Heads 5 days earlier, 2cm taller, and has a coleoptile 1.5cm longer than TAM 107. Grain yield about 10% less than TAM 107. Mixing strength equal to Larned and grain protein 1% higher than TAM 107. Resistant to stem rust, but susceptible to leaf rust, soilborne mosaic virus, wheat streak mosaic virus, and Hessian fly. Winter Annual. Breeding Material. Seed.

PI 574491 to 574495. *Cuphea* hybrid LYTHRACEAE *Cuphea*

Donated by: Knapp, S.J., Oregon Agr. Exp. Sta., Oregon State University, Corvallis, Oregon 97331-3002, United States. Received October 28, 1993.

PI 574491 **origin:** United States. **cultivar:** VL-90. **pedigree:** *Cuphea viscosissima*/C. lanceolata f. silenoides (PI 534911 x LN-43). PI 534911 was used as the recurrent parent. **remarks:** Seeds of *Cuphea viscosissima* can be dormant for 2 or more years. Five partially non-dormant C. viscosissima x C. lanceolata f. silenoides BC3S3 lines were developed by introgressing genes for non-dormancy from C. lanceolata to C. viscosissima. Germination percentages of this line increase as after-ripening time increases. Germination begins 1 month after harvest. This line was selected for autogamy--C. viscosissima is autogamous while C. lanceolata is allogamous--and can be grown without insect pollinators. Breeding Material. Seed.

PI 574492 **origin:** United States. **cultivar:** VL-91. **pedigree:** *Cuphea viscosissima*/C. lanceolata f. silenoides (PI 534911 x LN-43). PI 534911 was used as the recurrent parent. **remarks:** Seed of wild germplasm of *Cuphea viscosissima* is extremely dormant--seeds of this species can be dormant for 2 or more years. Five partially non-dormant C. viscosissima x C. lanceolata f. silenoides BC3S3 lines were developed by introgressing genes for non-dormancy from C. lanceolata to C. viscosissima. Germination percentages of this line increase as after-ripening time increases. Germinating begins 1 month after harvest. This line was selected for autogamy--C. viscosissima is autogamous, while C. lanceolata is allogamous--and can be grown without insect pollinators. Breeding Material. Seed.