REGISTRATION OF PAHA WHEAT1
(Reg. No. 510)
R. E. Allan and O. A. Vogel2

1PAHA wheat, T. aestivum L., C.I. 14445, is a short-strawed club winter wheat selected from the cross 'Sawon 92', 4*Omar' made at Pullman, Washington, in 1961. Paha was developed cooperatively by the Plant Science Research Division, Agricultural Research Service, U. S. Department of Agriculture and the College of Agriculture of Washington State University. It was jointly released to growers by the Agricultural Research Service and the Washington, Idaho, and Oregon Agricultural Experiment Stations in 1970. Paha has short white straw that varies from 80 to 100 cm and usually is 10 to 20 cm shorter in plant height than Omar. Otherwise, it is morphologically similar to Omar. It has a very dense awnletted spike with brown glumes that are midlong and mid-wide. Paha has a texture comparable to Omar but heavier than 'Moro.' It is similar to Omar in growth habit, maturity, winterhardiness and kernel type. Paha is superior to Omar and Moro in resistance to lodging and shattering. In seedling emergence it is better than 'Nugaines' equal to Omar; and generally poorer than Moro.

Paha resists the prevalent races of the stripe rust fungus in the Pacific Northwest. It has more tolerance to Cercospora foot rot (strawbreaker) than either Moro or Omar. Paha is comparable to Omar for resistance to common bunt. It is more susceptible to leaf rust, powdery mildew and flag smut than Omar.

Paha is recommended primarily for 28- to 38-cm (11- to 15-inch) rainfall areas of the Pacific Northwest, especially when grown under conditions favoring stripe rust and Cercospora foot rot. It has exceeded the yields of Moro and Omar in these rainfall areas of Washington by 10 to 20% over a 3-year period. Paha is not adapted to areas above 46 cm of rainfall; under these conditions it tends to lodge and produces less grain than Omar. Paha has the excellent milling and pastry baking quality characteristics typical of Omar and is superior to Moro in all respects for traditional club wheat quality.

Paha is a bulk increase of spaced plants selected from PI 107,330 introduced from Tashkent, Turkistan, USSR in 1934. Seed from the selected plants were bulked and increased under isolation. Nonprobescent, slow sod forming and otherwise weak seed is recognized for Alkar. Breeder and foundation seed are maintained by the Plant Materials Center, Soil Conservation Service, Pullman, Washington 99108.

2Alkar, a bulk increase of spaced plants selected from PI 107,330 introduced from Tashkent, Turkistan, USSR in 1934. Seed from the selected plants were bulked and increased under isolation. Nonprobescent, slow sod forming and otherwise weak seed is recognized for Alkar. Breeder and foundation seed are maintained by the Plant Materials Center, Soil Conservation Service, Pullman, Washington 99108.