RELEASE OF 'QUINCY' PINTO DRY EDIBLE BEAN

The Agriculture Research Center of Washington State University and the Agricultural Research Service, U.S. Department of Agriculture jointly announce the release of 'Quincy' a new pinto dry bean (Phaseolus vulgaris L.). This new release was developed to provide a superior virus resistant pinto cultivar for the Northwestern states bean growing areas. This will be the first pinto cultivar released by WSU/USDA - ARS to possess dominant I gene resistance to seed borne bean common mosaic virus (BCMV) and bc-2 gene, which combination provides complete resistance to all known strain of BCMV worldwide. Scientists participating in the development of this variety were A.N. Hang (Washington State University), M.J. Silbernagel (retired, USDA-ARS), and P.N. Miklas (USDA-ARS-Prosser).

Quincy pinto (F6:9), breeding line USPT-73, was derived from a cross RR 'Othello'/''Othello'/A-55 made in 1991. RR Othello is a rust resistance pinto selected from Othello released in 1986 by D.W. Burke. A-55 is a black-seeded, upright type II-A plant growth habit developed by S.P. Singh in Columbia. Quincy pinto has Ibc-2 gene resistance to BCMV and complete resistance to curly top virus (CTV). Quincy is a type 2 to 3 plant growth habit depending upon the weather conditions of each year. Quincy is taller than Othello and about 4 to 7 days later than Othello in maturity. It is a medium to late maturity pinto. Quincy plant is taller than Othello and is also more upright with short
vine than Othello. Quincy yielded 21% and 48% higher than Othello and Burke, respectively, under stress conditions of inadequate fertilizer and soil moisture and heavy root rot pressure soil (mainly *Fusarium solani*). Quincy is susceptible to bean rust caused by *Uromyces appendiculatus* (pers.:Pers) Unger. Quincy (previously tested as LB2008 and USPT-73) has higher yield than Othello in the National Cooperative dry bean nurseries and comparable to other pintos grown in Colorado. At Othello, Washington Quincy and Othello averaged 3,813 kg ha\(^{-1}\) compared to 3,905 kg ha\(^{-1}\) in 7 years from 1996 to 2003, respectively. Seed of Quincy is slightly larger than Othello 43.7 vs 39.6 g per 100 seeds. Quincy is an acceptable canner in trials conducted by USDA-ARS and the Michigan Agricultural Experiment Station in 1997 - 1998 and at New York Agricultural Experiment Station in 2002 and 2003.

Quincy has been released as a non exclusive public variety without Plant Variety protection. Breeder and Foundation seed will be maintained by Washington State Crop Improvement Association, Inc. Department of Crop and Soil Sciences, WSU Seed House, Pullman, WA 99164-6420.

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Director, Washington Agricultural Research Center

Date

Administrator, Agricultural Research Service  
U.S. Department of Agriculture  

Date