

of the problems that limit the sustainability of agriculture today.

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References

1. Aase, J.K., F.H. Siddoway, and A.L. Black. 1976. Perennial grass (*Agropyron elongatum*) barriers for wind erosion control, snow management and crop production. Great Plains Agric. Council Bull. 78:69–78. Great Plains Agriculture Council, Fort Collins, CO.
2. Armstrong, J.M. 1945. Investigations in *Triticum-Agropyron* hybridization. Empire J. Exper. Agric. 13:41–53.
3. Blevins, R.L. 1984. Soil adaptability for no-tillage. In R.E. Phillips and S.E. Phillips (eds.). No-tillage Agriculture. Van Nostrand Reinhold Co., New York. p. 42–65.
4. Bockus, W.W., and J.P. Shroyer. 1998. The impact of reduced tillage on soil-borne pathogens. Ann. Rev. Phytopath. 36:485–500.
5. Cox, C.M. 2000. Disease resistance in perennial wheat to *Cephalosporium* stripe, eyespot, and wheat streak mosaic virus. M.S. thesis. Washington State University, Dept. of Plant Pathology, Pullman.
6. Daily, G.C., S. Alexander, P.R. Ehrlich, L. Goulder, J. Lubchenco, P.A. Mattson, H.A. Mooney, S. Postel, S.H. Schneider, D. Tilman, and G.M. Woodwell. 1997. Ecosystem Services: Benefits Supplied to Human Societies by Natural Ecosystems. ESA Issues in Ecology No. 2. Ecological Society of America, Washington, DC.
7. Fatih, A.M.B. 1986. Genotypic and phenotypic associations of grain yield, grain protein and yield-related characteristics in wheat-*Agropyron* derivatives. Hereditas 105:141–153.
8. Jackson, W. 1980. New Roots for Agriculture. Friends of the Earth, San Francisco, CA.
9. Jakubziner, M.M. 1959. New wheat species. In Proc. First International Wheat Genetics Symposium, August 11–15, Winnipeg, Manitoba. University of Manitoba, Public Press Limited, Winnipeg. p. 207–220.
10. Jauhar, P.P. 1995. Meiosis and fertility of F₁ hybrids between hexaploid bread wheat and decaploid tall wheatgrass (*Thinopyrum ponticum*). Theor. Appl. Genet. 90:865–871.
11. Jones, S.S., and M.M. Cadle. 1997. Effect of variation at *Glu-D1* on end-use quality in club wheat. Plant Breed. 116:69–72.
12. Lal, R. 1998. Soil erosion impact on agronomic productivity and environmental quality. Crit. Rev. Plant Sci. 17:319–464.
13. Moffat, A.S. 1996. Agricultural research: Higher yielding perennials point the way to new crops. Science 274:1469–1470.
14. McCool, D.K., and A.J. Busacca. 1999. Measuring and modeling soil erosion and erosion damages. In E.L. Michalson, R.I. Papendick, and J.E. Carlson (eds.). Conservation Farming in the United States. CRC Press, Boca Raton, FL. p. 23–56.
15. Robertson, G.P., E.A. Paul, and R.R. Harwood. 2000. Greenhouse gases in intensive agriculture: Contributions of individual gases to forcing of the atmosphere. Science 289:1922–1925.
16. Schultz-Schaeffer, J. 1970. The *Triticum* × *Agropyron* hybridization project at Montana State University. Wheat Info. Serv. 30:26–29.
17. Schultz-Schaeffer, J., and S.E. Haller. 1987. Registration of Montana-2 perennial *Agrotriticum intermeiodurum* Khizhnyak. Crop Sci. 27:822–823.
18. Suneson, C.A. 1959. Perennial wheat offered. Ann. Wheat Newsl. 6:34–35.
19. Suneson, C.A., and W.K. Pope. 1946. Progress with *Triticum* × *Agropyron* crosses in California. J. Amer. Soc. Agron. 38:956–963.
20. USDA. 1978. Palouse Cooperative River Basin Study. U.S. Dept. of Agriculture, Economics, Statistics, and Cooperative Service, Forest Service, and Soil Conservation Service. U.S. Govt. Printing Office, Washington, DC.
21. Vinall, H.N., and M.A. Hein. 1937. Breeding miscellaneous grasses. Yearbook of Agriculture. U.S. Dept. of Agriculture. U.S. Govt. Printing Office, Washington, DC. p. 1032–1102.
22. Wagoner, P. 1990. Perennial grain development: Past efforts and potential for the future. Crit. Rev. Plant Sci. 9:381–409.
23. Wood, C.W., G.A. Peterson, D.G. Westfall, C.V. Cole, and W.O. Willis. 1991. Nitrogen balance and biomass production of newly established no-till dryland agroecosystems. Agron. J. 83:519–526.
24. Young, D.L., D.B. Taylor, and R.I. Papendick. 1984. Separating erosion and technology impacts on winter wheat yields in the Palouse: A statistical approach. Proc. National Symposium on Erosion and Soil Productivity. ASAE Publ. 8-85. American Society of Agricultural Engineers, St. Joseph, MI. p. 131–142.



UPCOMING EVENTS

March 1-2, Upper Midwest Organic Farming Conference will be held in La Crosse, WI; contact Midwest Organic and Sustainable Education Services, e-mail moses@wwt.net.

March 2, “Twenty Years of Organic Growth—Celebrating the Harvest,” the 20th End of Winter Conference of Northeast Organic Farming Association of Connecticut, will be held in Hartford, CT; contact NOFA/CT, (203) 484-2445; e-mail,

nofact@connix.com; on the Internet, <http://ct.nofa.org>.

April 7-8, “Natural and Organic: Products for a Sustainable Future,” the Sixth International Trade Exhibition, will be held in London; contact Natural Products Europe, 44-1903-817301; e-mail, sales@naturalproducts.co.uk; on the Internet, www.naturalproducts.co.uk.

May 9-11, “All Things Organic” will be held in Austin, TX; contact Organic

Trade Association, (413) 774-7511; e-mail, allthingsorganic@ota.com.

August 16-21, “Cultivating Communities,” the 14th Organic World Congress of the International Federation of Organic Agriculture Movements, will be held in Victoria, BC, Canada; contact IFOAM, c/o Building 20, 8801 East Saanich Road, Sidney BC V8L 1H3, (250) 655-5662; e-mail, ifoam2002@cog.ca; on the Internet, www.cog.ca/ifoam2002.