

VI. RECENT MAIZE PUBLICATIONS

- Alexander, D. E. Performance of genetically induced corn tetraploids. Proc. 15th Hybrid Corn Industry-Research Conference: 68-74. 1960.
- Alexander, D. E. and J. B. Beckett. Search for a conversion-type mutator system at the Rf₁ locus in maize. Crop Sci. 2: 139-140. 1962.
- Bell, W. D., L. Bogorad, and W. J. McIlrath. Yellow-stripe phenotype in maize. I. Effects of ys₁ locus on uptake and utilization of iron. Bot. Gaz. 124: 1-8. 1962.
- Bellini, G., A. Bianchi, and E. Ottaviano. The use of interchanges involving B-type chromosomes in studying artificial mutagenesis in maize. Z. VererbLehre 92: 85-99. 1961.
- Bennett, S. E. and L. M. Josephson. Methods of artificial infestation of corn with the earworm, Heliothis zea. Jour. Econ. Ent. 55: 797-798. 1962.
- Bianchi, A. Genetic factors determining defective caryopses in the progenies of crosses between maize and teosinte. II. Curves of variability in weight. Iv Riun Assoc. Genet. Ital. Suppl.: 51-69. 1959.
- Bianchi, A. Chromatin components and mutation rate in maize seedlings. Atti Assoc. Genet. Ital. 5: 129-136. 1960.
- Bianchi, A. Genetic damage in seeds of maize treated with X-rays and with neutrons under different physiological conditions. Atti Assoc. Genet. Ital. 5: 137-148. 1960.
- Bianchi, A. Some aspects of genetic improvement of maize. Maydica, Bergamo 7: 49-56. 1962.
- Bianchi, A. Aspects of mutagenesis in maize and their relationships to general problems of mutation. Atti Assoc. Genet. Ital. 6: 293-322. 1961.
- Bianchi, A., G. Bellini, M. Contin and E. Ottaviano. Non-disjunction in presence of interchanges involving B-type chromosomes in maize, and some phenotypical consequences of meaning in maize breeding. Z. VererbLehre 92: 213-232. 1961.
- Bianchi, A., M. Buiatti, and C. Van de Walle. Recombination frequency in presence of B chromosomes in maize. Genetics 47: 943. 1962. (Abstr.)

- Bianchi, A. and M. Contin. Transmission and crossingover of irradiated chromosomes of maize. *Z. VererbLehre* 93: 118-126. 1962.
- Bianchi, A. and M. Contin. Influence of temperature on frequency of somatic mutations induced by X-rays in maize seedlings. *Atti Assoc. Genet. Ital.* 7: 240-249. 1962.
- Bianchi, A. and G. Marchesi. Ultrastructure of the leaf surface of "glossy" mutants in maize. *Atti Assoc. Genet. Ital.* 6: 395-404. 1961.
- Bianchi, A. and A. Morandi. A case of balanced lethal factors in maize. *Heredity* 17: 409-414. 1962.
- Borovskij, M. I. The transfer of the character of male sterility in maize by vegetative hybridization. *Proc. Darwin Jubil. Conf. Kisinev*: 209-212. 1960.
- Brieger, F. G., J. T. A. Gurgel, E. Paterniani, A. Blumenschein and M. R. Alleoni. Races of maize in Brazil and other eastern South American countries. *Publ. Nat. Acad. Sci. Nat. Res. Coun., Wash.* No. 593: Pp. 283. 1958.
- Brink, R. A. Phase change in higher plants and somatic cell heredity. *Quart. Rev. Biol.* 37: 1-22. 1962.
- Brunson, A. M. and F. W. Quackenbush. Breeding corn with high provitamin A in the grain. *Crop Sci.* 2: 344-347. 1962.
- Caspar, A. L. and W. R. Singleton. Mutations induced during maize microsporogenesis. *Genetics* 47: 946-947. 1962. (Abstr.)
- Clark, G. H. Stability of self-red mutations derived from variegated pericarp in maize. *Diss. Abstr.* 22: 1798-1799. 1961. (Abstr.)
- Coe, E. H., Jr. Maize Genetics Cooperation News Letter. Appendix to Volume 36. Symbol Index to Volumes 12 through 35. 45 pp. Columbia, Missouri. 1962.
- Coe, E. H. Spontaneous mutation of the aleurone color inhibitor in maize. *Genetics* 47: 779-783. 1962.
- Greech, R. G. Corn (genetic control of carbohydrate synthesis in the corn kernel). 1963 Yearbook of Science and Technology, McGraw-Hill.
- Diakonou, P. The morphological and physiological nature of heterosis. *Kukuruza* 11: 42-43. 1961.

- Dorovskaja, I. P. and F. Ja. Konovalov. A morpho-physiological analysis of growth and development of selfed lines and interline hybrids of maize. Proc. N. Oset. Agric. Inst. 21: 49-58. 1960.
- Edwardson, J. R. Cytoplasmic differences in T-type cytoplasmic male-sterile corn and its maintainer. Amer. J. Bot. 49: 184-187. 1962.
- Fedorov, P. S. Physiological and biochemical characteristics of heterotic maize hybrids. Rep. agric. Sci. 4: 27-33. 1962.
- Ferguson, V. L. and M. S. Zuber. Influence of environment on amylose content of maize endosperm. Crop Sci. 2: 209-211. 1962.
- Findley, W. R. Identification by marker gene stocks of maize chromosomes effecting resistance and susceptibility to Helminthosporium turcicum Pass. Diss. Abstr. 22: 1782. 1961. (Abstr.)
- Findley, W. R. and R. C. Leffel. Identification of corn chromosomes effecting resistance and susceptibility to Helminthosporium turcicum Pass. by marker gene stocks. Crop Sci. 2: 337-341. 1962.
- Focke, R., W. Franzke and E. Müller. Observations on the assimilation in the maize plant. Zuchter 31: 303-310. 1961.
- Funk, C. R., J. C. Anderson, M. W. Johnson and R. W. Atkinson. Effect of seed source and seed age on field and laboratory performance of field corn. Crop Sci. 2: 318-321. 1962.
- Galinat, W. C. Form and function of plant structures in the American Maydeae and their significance for breeding. Econ. Bot. 17: 10-14. 1963.
- Gamble E. E. Gene effects in corn (Zea mays L.). II. Relative importance of gene effects for plant height and certain component attributes of yield. Canad. J. Pl. Sci. 42: 349-358. 1962.
- Gamble, E. E. Gene effects in corn (Zea mays L.). I. Separation and relative importance of gene effects for yield. Canad. J. Pl. Sci. 42: 339-348. 1962.
- Garza, A., A. A. Fleming and E. B. Browne. A method of identifying maize hybrids with the same pedigree and the effect of varying numbers of lines in common on contrasts among hybrid and sib populations. Crop Sci. 2: 371-374. 1962.
- Geerthsen, J. M. P., the late T. van Schaik, J. D. J. Hofmeyr, H. W. Hitzeroth, H. F. du Toit and P. M. le Roux. Research on hybrid maize marches on. Farming in South Africa 38: 78-79. 1962.

- Gering, H. F. and T. A. Mitcenkova. Some problems in the physiology of maize plants differing in vigour. *Agrobiologija* 1961: 383-389. 1961.
- Gomez, A. A., F. A. Aquilizan, R. M. Payson, R. L. Villareal and C. M. Masajo. Green-corn performance test in sweet and in glutinous corn. *Phil. Agric.* 45: 322-339. 1962.
- Gomez, A. A. and A. L. Carpena. The suitability of the randomized complete-block design in comparing the grain yields of corn at six locations in the Philippines. *Phil. Agric.* 46: 101-107. 1962.
- Gomez, A. A. and A. C. Mercado, Jr. The occurrence of pollen-fertility restorers of T-sterile cytoplasm in inbred lines of corn in the Philippines. *Phil. Agric.* 46: 1-6. 1962.
- Greenblatt, I. M. and R. A. Brink. Twin mutations in medium variegated pericarp maize. *Genetics* 47: 489-501. 1962.
- Haigh, W. G. and A. T. Guard. The distribution of mitoses in the root tips of Zea mays. *Amer. J. Bot.* 49: 660. 1962. (Abstr.)
- Hallauer, A. R. and W. A. Russell. Estimates of maturity and its inheritance in maize. *Crop Sci.* 2: 289-295. 1962.
- Hamilton, R. H., R. S. Bandurski, and W. H. Reusch. Isolation of a cyclic hydroxamate from Zea mays. *Cereal Chem.* 39: 107-113. 1962.
- Harley, J. L. and H. Beevers. Acetate utilization by maize roots. *Plant Physiology* 38: 117-124. 1963.
- Hesketh, J. D. and R. B. Musgrave. Photosynthesis under field conditions. IV. Light studies with individual corn leaves. *Crop Sci.* 2: 311-315. 1962.
- Hilu, H. M. and A. L. Hooker. Expression of the monogenic chlorotic-lesion resistance to Helminthosporium turcicum in corn seedlings. *Phytopathology* 52: 736. 1962. (Abstr.)
- Hooker, A. L. A new type of resistance in corn to Helminthosporium turcicum. *Plant Dis. Reptr.* 45: 780-781. 1961.
- Hooker, A. L. Inheritance of chlorotic-lesion resistance to Helminthosporium turcicum in corn seedlings. *Phytopathology* 52: 737. 1962. (Abstr.)
- Hooker, A. L. and W. A. Russell. Inheritance of resistance to Puccinia sorghi in six inbred lines of corn. *Phytopathology* 52: 122-128. 1962.

- Horner, T. W., G. F. Sprague and W. A. Russell. Some additional procedures for the detection of epistasis. *Virginia J. Sci.* 12: 208. 1961. (Abstr.)
- Javier, P. C. and J. A. Malabayoc. Performance of synthetic popcorn varieties developed from standard U. S. inbred lines. *Phil. Agric.* 45: 103-118. 1961.
- Jenkins, M. T. and A. L. Robert. Further genetic studies of resistance to Helminthosporium turcicum Pass. in maize by means of chromosomal translocations. *Crop Sci.* 1: 450-455. 1961.
- Josephson, L. M. Combining prolificacy and earliness. *Proc. 16th hybrid Corn Industry-Research Conf.* 16: 45-52. 1962.
- Josephson, L. M. Effects of potash on premature stalk dying and lodging in corn. *Agron. Jour.* 54: 179-180. 1962.
- Josephson, L. M. and H. C. Kincer. Effects of male-sterile cytoplasm on yields and other agronomic characteristics of corn inbreds and hybrids. *Crop Sci.* 2: 41-43. 1962.
- Knipmeyer, J. W., R. H. Hageman, E. B. Earley and R. D. Seif. Effect of light intensity on certain metabolites of the corn plant (Zea mays L.). *Crop Sci.* 2: 1-5. 1962.
- Koehler, J. K., K. Muhlethaler, and A. Frey-Wyssling. Electron microscopic autoradiography. An improved technique for producing thin films and its application to H^3 -thymidine-labeled maize nuclei. *J. Cell Biology* 16: 73-81. 1963.
- Kratochvil, D. E. A study of progenies of a colchicine treated F_1 hybrid of Zea mays L. *Diss. Abstr.* 22: 694-695. 1961.
- Krolkowski, Z. Studies of cytoplasmic male sterility in maize. *Hodowla Roslin Aklimatyz Nasiennictwo* 6: 77-90. 1962.
- Kuzin, A. M., N. M. Berezina, and O. N. Slykova. Relation between dose rate and the radiobiological effect in plants. *Biofizika* 5: 566-569. 1960.
- Latterell, R. L. and D. M. Steffensen. Changes in sensitivity of maize chromosomes to X-rays during seed germination. *Amer. J. Bot.* 49: 472-478. 1962.
- Lee, B. H. Inheritance of reaction to Puccinia sorghi Schw. and genetic relationships of alleles at R_p locus on chromosome X in 6 corn lines. *Diss. Abstr.* 22: 386. 1961. (Abstr.)

- Leng, E. R. Results of long-term selection for chemical composition in maize and their significance in evaluating breeding systems. *Z. Pflanzenz.* 47: 67-91. 1962.
- Leng, E. R. Selection reversal in strains of corn previously long-term selected for chemical composition. *Crop Sci.* 2: 167-170. 1962.
- Leng, E.R., R. H. Hageman and J. F. Zieserl. Hereditary control of nitrate-reductase activity in maize. *Genetics* 47: 966-967. 1962. (Abstr.)
- Lima-de-Faria, A. and P. Sarvella. Variation of the chromosome phenotype in *Zea*, *Solanum* and *Salvia*. *Chromosoma* 13: 300-315. 1962.
- Lindsey, M. F. The effects of linkage bias on estimates of genetic variance and the average degree of dominance for genes influencing quantitatively inherited characters in the F_2 and advanced generations of a hybrid population of corn. *Diss. Abstr.* 22: 35. 1961. (Abstr.)
- Lindsey, M. F., J. H. Lonquist and C. O. Gardner. Estimates of genetic variance in open-pollinated varieties of cornbelt corn. *Crop Sci.* 2: 105-108. 1962.
- Loesch, P. J. Jr., O. H. Calvert, and M. S. Zuber. Interrelation of Diplodia stalk rot and two morphological traits associated with lodging of corn. *Crop Sci.* 2: 469-472. 1962.
- Lonquist, J. H. Progress from recurrent selection procedures for the improvement of corn populations. *Res. Bull. Neb. Agric. Exp. Sta.* No. 197: Pp. 33. 1961.
- Lozova, G. I. Plastid pigments of some maize hybrids and varieties. *Ukrain. J. Bot.* 18: 27-36. 1961.
- Maguire, M. P. Spontaneous chromosome fragmentation and exchange in corn-Tripsacum hybrid derivatives. *Genetics* 47: 968. 1962. (Abstr.)
- Maguire, M. P. Pachytene and diakinesis behavior of the isochromosomes 6 of maize. *Science* 138: 445-446. 1962.
- Maguire, M. P. Common loci in corn and Tripsacum. *Jour. Hered.* 53: 87-88. 1962.
- Maguire, M. P. Further studies on pachytene pairing failure in maize. *Chromosoma* 13: 16-26. 1962.
- Malca, I. and F. P. Zscheile. Metabolic responses of isogenic lines of maize to infection by *Helminthosporium carbonum*. 1. Organic acids. *Phytopath.* 52: 19. 1962. (Abstr.)

- Malm, N. R. and J. B. Beckett. Reactions of plants in the tribe Maydeae to Puccinia sorghi Schw. *Crop Sci.* 2: 360-362. 1962.
- Malm, N. R. and A. L. Hooker. Resistance to rust, Puccinia sorghi Schw., conditioned by recessive genes in two corn inbred lines. *Crop Sci.* 2: 145-147. 1962.
- Manzjuk, S. G. Prognosis of the manifestation of heterosis in maize. *Rep. Agric. Sci.* 12: 47-50. 1961.
- McClintock, B. Topographical relations between elements of control systems in maize. *Carnegie Inst. Wash. Yearb.* 61: 448-461. 1962.
- McWhirter, K. S. Paramutation studies with self-colored mutants from the stippled allele in maize. *Diss. Abstr.* 22: 1363-1364. 1961.
- McWhirter, K. S. and R. A. Brink. Continuous variation in level of paramutation at the R locus in maize. *Genetics* 47: 1053-1075. 1962.
- Mercado, Jr., A. C. and R. M. Lantican. The susceptibility of cyto-sterile lines of corn to Helminthosporium maydis Nish and Miy. *Phil. Agric.* 45: 235-243. 1962.
- Mifflin, B. J. and R. H. Hageman. Demonstration of photooxygenation by maize chloroplasts. *Plant Physiology* 38: 66-71. 1963.
- Moll, R. H., K. Kojima and H. F. Robinson. Components of yield and over-dominance in corn. *Crop Sci.* 2: 78-79. 1962.
- Moll, R. H., W. S. Salhuana, and H. F. Robinson. Heterosis and genetic diversity in variety crosses of maize. *Crop Sci.* 2: 197-199. 1962.
- Morris, R. and E. F. Frolik. The effects of irradiating dormant maize seeds with X-rays and thermal neutrons. *Univ. Nebraska Agr. Sta. Res. Bull.* 202, 47 p. December, 1961.
- Murdy, W. H. The strengthening system in the stem of maize. *Ann. Mo. Bot. Gard.* 47: 205-226. 1960.
- Nelson, O. E. The waxy locus in maize. I. Intralocus recombination frequency estimates by pollen and conventional analyses. *Genetics* 47: 737-743. 1962.
- Nelson, O. E. and H. W. Rines. The enzymatic deficiency in the waxy mutant of maize. *Biochem. Biophys. Res. Comm.* 9: 297. 1962.

- Nickerson, N. H. Studies involving sustained treatment of maize with gibberellic acid. III. Responses of *Zea mays* plants carrying the gene "lazy". Amer. Midl. Nat. 67: 125-131. 1962.
- Noel, A. R. A. The demonstration of waxy in maize. Jour. Hered. 52: 294. 1961.
- Nuffer, M. G. Consideration of the suppressor element hypothesis for mutable loci. Genetics 47: 973-974. 1962. (Abstr.)
- Palenzona, D. L. and S. Scossiroli. Studies in induced polygenic mutability in maize. Atti Assoc. Genet. Ital. 7: 257-265. 1962.
- Paterniani, E. Performance of flint corn from the state of São Paulo. (in Portuguese). Publicação Científica 2: 15-22. Instituto de Genética. São Paulo, Brazil. 1961.
- Paterniani, E. Performance of yellow dent corn varieties from the states of southern Brazil. (in Portuguese). Publicação Científica 2: 1-13. Instituto de Genética. São Paulo, Brazil. 1961.
- Paterniani, E. Interracial crosses of maize. (in Portuguese). 46 pp. Thesis of Livre Docente. Escola Superior de Agricultura "Luiz de Queiroz". São Paulo, Brazil, 1961.
- Pendleton, J. W. and R. D. Seif. Plant production and row spacing studies with brachytic-2 dwarf corn. Crop Sci. 1: 433-435. 1961.
- Pendleton, J. W. and R. D. Seif. Role of height in corn competition. Crop Sci. 2: 154-156. 1962.
- Penny, L. H., W. A. Russell and G. F. Sprague. Types of gene action in yield heterosis in maize. Crop Sci. 2: 341-344. 1962.
- Peterson, P. A. The many forms of the components of a mutable system in maize. Genetics 47: 976. 1962. (Abstr.)
- Prensky, W. Quantitative genetics of height in brachytic-2 corn. Diss. Abstr. 22: 37. 1961. (Abstr.)
- Ramirez, E., D. H. Timothy, E. Diaz, and U. J. Grant. Races of maize in Bolivia. DIA Bogota No. 9: Pp. 157. 1961.
- Rawlings, J. O. and D. L. Thompson. Performance level as criterion for the choice of maize testers. Crop Sci. 2: 217-221. 1962.
- Reddy, G. M. and E. H. Coe, Jr. Intertissue complementation: A simple technique for direct analysis of gene-action sequence. Science 138: 149-150. 1962.

- Reddy, G. M. and E. H. Coe. Extension of the gene-action sequence in anthocyanin synthesis in maize by some special tests. *Genetics* 47: 978. 1962. (Abstr.)
- Respondek, V. Comparative investigations on mutants after X irradiation and treatment with mutagenic chemicals. *Angew. Bot.* 35: 184-190. 1961.
- Richardson, L. B., I. C. Anderson and D. S. Robertson. Genetics and environmental variations: Effect on pigments of selected maize mutants. *Science* 138: 1333-1334. 1962.
- Robertson, D. S. Suppressor and allele studies bearing on the nature of the white-albino loci of maize. *Genetics* 47: 980-981. 1962. (Abstr.)
- Ruebenbauer, T. Heredity of leaf area in corn. *Bull. Acad. Polon. Sci.* 9: 319-323. 1961.
- Russell, W. A. A comparison of five types of testers in evaluating the relationship of stalk rot resistance in corn inbred lines and stalk strength of the lines in hybrid combinations. *Crop Sci.* 1: 393-397. 1961.
- Russell, W. A. and A. L. Hooker. Location of genes determining resistance to *Puccinia sorghi* Schw. in corn inbred lines. *Crop Sci.* 2: 477-480. 1962.
- Sandstedt, M. R., D. Strahan, S. Ueda and R. C. Abbot. The digestibility of high-amylose corn starches compared to that of other starches. The apparent effect of the ae gene on susceptibility to amylase action. *Cereal Chem.* 39: 123-131. 1962.
- Satarov, N. Male sterilization of maize with chemical substances. *Kolhoz. Proizvod.* 9: 46. 1961.
- Schnell, F. W. Two-dimensional genetic differentiation in segregating populations in maize. *Z. Pflanzenz.* 46: 1-12. 1961.
- Schwartz, D. Genetic studies on mutant enzymes in maize, II. On the mode of synthesis of the hybrid enzymes. *Proc. Nat. Acad. Sci.* 48: 750-756. 1962.
- Schwartz, D. Genetic studies on mutant enzymes in maize. III. Control of gene action in the synthesis of pH 7.5 esterase. *Genetics* 47: 1609-1617. 1962.

- Schwartz, D. Analysis of mutations in the regulatory system which alter the timing of gene action in esterase enzyme synthesis. *Genetics* 47: 982-983. 1962. (Abstr.)
- Shaver, D. L. A study of aneuploidy in autotetraploid maize. *Canad. J. Genet. Cytol.* 4: 226-234. 1962.
- Shaver, D. L. Cytogenetic studies of allotetraploid hybrids of maize and perennial teosinte. *Amer. J. Bot.* 49: 348-354. 1962.
- Shaver, D. L. The effect of structural heterozygosity on the degree of preferential segregation in allotetraploids of *Zea*. *Genetics* 47: 984. 1962. (Abstr.)
- Sidhu, B. S. Studies on chlorophyll suppressors and the horn-like (hc) coleoptile mutant in *Zea mays* L. *Diss. Abstr.* 22: 404. 1961. (Abstr.)
- Singleton, O. V. and M. S. Zuber. 1961 Missouri Hybrid Corn Yield Trials. Special Report No. 11.
- Sprague, G. F., W. A. Russell, L. H. Penny, T. W. Horner, and W. D. Hanson. Effect of epistasis on grain yield in maize. *Crop Sci.* 2: 205-209. 1962.
- Sulgin, I. A., F. M. Kuperman, V. A. Vyslouh, and I. P. Scerbina. Chlorophyll content as a physiological index of heterosis in maize. *Phys. Pl.* 8: 754-756. 1961.
- Sydorenko, I. D. Anomalies in maize induced by seed treatments with X-rays and γ rays from Co^{60} . *Yb. Ukrain. Bot. Soc.* 3: 97-99. 1962.
- Thomas, W. I., G. W. Gorsline, G. W. Korman, D. E. Baker, and C. C. Wernham. Pennsylvania corn performance studies 1961. Progress Report 241, The Pennsylvania State University. 1962.
- Timothy, D. H., V. Bertulfo Peña, E. Ricardo Ramírez, W. L. Brown and E. Anderson. Races of maize in Chile. *Publ. Nat. Acad. Sci. Nat. Res. Coun., Wash.* No. 847: Pp. 84. 1961.
- Vahtin, Ju. B. The inheritance of combining ability in maize when self pollinated and selected for earliness. *Bull. Acad. Sci. White Russ. SSR* 4: 209-216. 1958.
- Valeva, S. A. Effect of γ rays and neutrons on dried seeds of agricultural plants. *Biofizika* 5: 362-365. 1960.

- van Ei jnatten, C. L. M. Yield reduction in maize due to a leaf blight caused by Cochliobolus heterostrophus at Ibadan. Federal Dept. Agr. Res., Moor Plantation, Ibadan, Nigeria, Memorandum 36. 1962.
- van Ei jnatten, C. L. M. Some considerations on maturity in maize and on the period from emergence of the maize seedling to anthesis (tasselling time). Federal Dept. Agr. Res., Moor Plantation, Ibadan, Nigeria, Memorandum 35. 1962.
- van Ei jnatten, C. L. M. Performance of six white grained maize varieties in varietal hybrid combinations grown in southern Nigeria. Federal Dept. Agr. Res., Moor Plantation, Ibadan, Nigeria, Memorandum 32. 1962.
- van Ei jnatten, C. L. M. Selection for combining ability within the variety Sicaragua. Federal Dept. Agr. Res., Moor Plantation, Ibadan, Nigeria, Memorandum 28, 1961.
- van Ei jnatten, C. L. M. On the assessment of blight on the leaves of maize, caused by Cochliobolus heterostrophus. Federal Dept. Agr. Res., Moor Plantation, Ibadan, Nigeria, Memorandum 27. 1961.
- Van Schaik, N. Secondary transpositions of Modulator, a movable genetic element in maize. South African J. Sci. 58: 69-70. 1962.
- Varma, B., A. Caspar, and W. R. Singleton. Effect of chronic gamma radiation on proembryos of corn. Genetics 47: 992. 1962. (Abstr.)
- Weir, J. A. Amazing maize. Jour. Hered. 53: 99-100. 1962.
- Welch, J. E. Linkage in autotetraploid maize. Genetics 47: 367-397. 1962.
- Wernham, C. C., W. I. Thomas and G. W. Gorsline. Yield reductions and stalk root severity in corn hybrids under severe Helminthosporium leaf blight conditions in Pennsylvania. Plant Disease Repr. 46: 657-660. 1962.
- Williams, J. C. Genetic variances in an open-pollinated variety of corn estimated from full-sib and half-sib progenies. Diss. Abstr. 21: 1720. 1961. (Abstr.)
- Woodstock, L. W. and F. Skoog. Distributions of growth, nucleic acids, and nucleic-acid snythesis in seedling roots of Zea mays. Amer. J. Pot. 49: 623-633. 1962.

- Zieserl, J. F., Jr. and R. H. Hageman. Effect of genetic composition on nitrate reductase activity in maize. *Crop Sci.* 2: 512-516. 1962.
- Zuber, M. S. What limits corn yields. *Crops and Soils*: 13 (9). 1961.
- Zuber, M. S. and C. O. Grogan. A new technique for measuring stalk strength in corn. *Crop Sci.* 1: 378-380. 1961.
- Zuber, M. S., O. V. Singleton, P. J. Loesch and A. C. McBride. Report of the 1961 Missouri Cooperative Corn Investigation. *Field Crops Miscellaneous*, Report No. 25. Feb. 1962.