

5. Literature cited

- Abd El-Moula, M.A. (2005):** Combining ability estimates of maize inbred lines and its interaction with location. Assiut J. of Agric. Sci., 36 (3): 57-76.
- Abdel-Sattar, A.A. (1998):** Combining ability analysis in some top crosses of maize (*Zea mays* L.). Ann. of Agric. Sci. Moshtohor, 36 (4): 2005-2018.
- Abdel-Sattar, A.A. (2004):** Estimation of combining ability in different self generations in maize (*Zea mays* L.) Bull. NRC, Egypt. 29 (2): 243-263.
- AL-Naggar, A.M.; H.Y. El-Sherbieny and A.A. Mahmoud (1997):** Effectiveness of inbreds, single crosses and populations as testers for combining ability in maize. Egypt J. Plant Breed. 1: 35-46.
- Aly, A.A. (2004):** Combining ability and gene action of new maize inbred lines (*Zea mays* L.) using Line x tester analysis. Egypt. J. Appl. Sci., 19 (12B): 492-518.
- Amer, E.A. (2004):** Combining ability of new white inbred lines of maize with three testers, tested over two locations. Ann. of Agric. Sci. Moshtohor. 42 (2): 461-474.
- Amer, E.A. ; A.A. El-Shenawy and H.E. Mosa (2002):** Evaluation of some new inbred lines of maize for combining ability. Ann. of Agric. Sci. Moshtohor. 40 (2): 791-802.
- Amer, E.A.; A.A. El-Shenawy and A.A. Motawei (2003):** Combining ability of new maize inbred lines via Line x tester analysis. Egypt J. Plant Breed. 7 (1): 229-239. Special issue (2003).

- Barakat, A.A. (2001):** Estimates of combining ability of white maize inbred lines in top crosses. *Al-Azhar J. Agric. Res.* 33: 129-146.
- Davis, R.L. (1927):** Report of the plant breeder. Rep. Puerto Rico. Agric. Exp. Sta. P: 14-15.
- Dodiya, N.S. and V.N. Joshi (2002):** Gene action for grain yield and its attributes in maize (*Zea mays* L.) *Indian J. Genet.* 62 (3): 253-254.
- Dubey, R.B.; V.N. Joshi and N.K. pandiya (2001):** Heterosis and combining ability for quality, yield and maturity traits in conventional and non-conventional hybrids of maize (*Zea mays* L.) *Indian J. Genet.* 61 (4): 353-355.
- El-Hosary, A.A. (1985):** Study of combining ability in some top crosses in maize. *Egypt.J.Agron.* 10(1-2): 39-47.
- El-Hosary, A.A. (1988):** Evaluation of twenty new inbred lines by top crosses in corn (*Zea mays* L.) *Proceeding 3th Egyptian Conf.Agron.* Kafer El-Sheikh, 1: 48-56.
- El-Hosary, A.A. (1989):** Heterosis and combining ability of six inbred lines of maize by diallel crossing over two years. *Egypt. J. Agron.* 14(1-2): 47-58.
- El-Hosary, A.A. and M.El.M. El-Badawy (2005):** Heterosis and combining ability in yellow corn (*Zea mays* L.) under two nitrogen levels. *The 11th Conf. Agron., Agron. Dept., Fac. Agric., Assiut Univ.,* 89-99.
- El-Hosary, A.A.; M.El.M. El-Badawy and Y.M. Abdel-Tawab (2006):** Genetic distance of inbred lines and prediction of maize single cross performance using RABD and SSR markers. *Egypt. J. Genet. Cytol.* 35: 209-224.
- El-Shenawy, A.A.; E.A.Amer and H.E.Mosa (2003):** Estimation of combining ability of newly developed

- inbred lines of maize by (Line x tester) analysis. J. Agric. Res. Tanta Univ. 29 (1): 50-63.
- El-Zeir, F.A.A. (1999):** Evaluating some new inbred lines for combining ability using top-crosses in maize (*Zea mays* L.). Minufiya J. Agric. Res. 24 (5): 1609-1620.
- El-Zeir, F.A.A.; E.A. Amer; A.A. Abd El-Aziz and A.A. Mahmoud (2000):** Combining ability of new maize inbred lines and type of gene action using top crosses of maize. Egypt. J. Appl. Sci. 15 (2): 116-128.
- Gado, H.E. (2000):** Estimates of combining ability of some yellow maize inbred lines in top crosses. J. Agric. Sci. Mansoura Univ. 25 (3): 1495-1510.
- Ibrahim, M.H.A. and A.A. Motawei (2004):** Combining ability of new maize inbred lines by line x tester analysis. J. Agric. Sci. Mansoura Univ. 29 (8): 4349-4356.
- Ibrahim, M.H.A. and M.M.A. Osman (2005):** Combining ability estimates and type of gene action for white maize (*Zea mays* L.) top crosses. Egypt. J. Appl. Sci., 20 (10B): 483-500.
- Jenkins, M.T. (1935):** The effect of inbreeding and selection within inbred lines of maize upon the hybrids made after successive generations of selfing. Iowa State J. Sci. 3: 429-450.
- Joshi, V.N.; R.B. Dubey and S. Marker (2002):** Combining ability for polygenic traits in early maturing hybrids of maize (*Zea mays* L.). Indian J. Genet. 62 (4): 312-315.
- Kempthorne, o. (1957):** An introduction to genetic statistics. John Wiley and Sons Inc., New York.
- Mahmoud, A.A. and M.E.M. Abd El-Azeem (2004):** Estimates of general and specific combining ability of some yellow maize inbred lines using top-crosses. Ann. of Agric. Sci. Moshtohor 42 (2): 427-437.

- Mahmoud, A. A.; A.A. Abdel-Aziz; F.H.S. Soliman and K.I. Khalifa (2001):** Selection among S_3 maize lines (*Zea mays* L.) using test crosses. Egypt. J. Plant Breed. 5: 29-41.
- Mosa, H.E. (2004):** comparison between two types of testers for evaluating new white inbred lines of maize. Ann. of Agric. Sci., Moshtohor 42 (2): 475-487.
- Mosa, H.E.; A.A. Motawei and Afaf A.I. Gabr (2004):** Evaluation of new inbred lines of yellow maize via line x tester analysis over three location. J. Agric. Sci. Mansoura Univ., 29 (3): 1023-1033.
- Motawei, A.A.; A.A. El-Shenawy and fatma A.E. Nofel (2005):** Estimation of combining ability for two sets of yellow maize top crosses. Assiut J. of Agric. Sci: 36 (3):91-107.
- Nawar, A.A.; S.A. El-Shamarka; E.A. El-Absawy; M.E. Ibrahim and M.A. Shehata (1998):** Estimation of genetic variation in maize population and their interaction with growing season. Menofiya. J. Agric. Res.. 23(6): 1509-1530.
- Sadek, S.E.; H.E. Gado and M.S.M. Soliman (2000):** Combining ability and type of gene action for maize grain yield and other attributes. J. Agric. Sci. Mansoura Univ. 25 (5): 2491-2502.
- Sedhom, S.A. (1992):** Development and evaluation of some new inbred lines of maize. Proc. 5th Conf. Agron. Zagazig. (1): 269-280.
- Sedhom, S.A. (1994):** Genetic study on some top crosses in maize under two environments. Ann. of Agric. Sci. Moshtohor, 32(1): 131-141.
- Sedhom, S.A.; M.El.M. El-Badawy; A.M. Morsy and A.A.A. El-Hosary (2007):** Diallel analysis and relationship

- between molecular polymorphisms and yellow maize hybrid performance. *Ann. of Agric. Sci., Moshtohor*, 45(1): 1-20.
- Seiam, M.A. (2007):** Estimation of combining ability for some white maize inbred lines using three inbred testers. *Egypt. J. plant Breed.* 11 (1): 199-208. Special issue.
- Shehata, A.M.; F.A. El-Zeir and E.A. Amer (1997):** Influence of tester lines on evaluating combining ability of some new maize inbred lines. *J. Agric. Sci. Masoura Univ.* 22 (7): 2159-2176.
- Soliman, F.H.S. (2000):** Comparative combining ability of newly developed inbred lines of yellow maize (*Zea mays* L.) *Egypt. J. Appl. Sci.* 15 (7): 87-102.
- Soliman, M.S.M.; A.A. Mahmoud; Afaf A.I. Gabr and F.H.S. Soliman (2001):** Utilization of narrow base testers for evaluating combining ability of newly developed yellow maize inbred lines (*Zea mays* L.). *Egypt. J. Plant Breed.* 5: 61-76.
- Soliman, F.H.S. and S.E. Sadek (1998):** Combining ability of new maize inbred lines and its utilization in the Egyptian hybrid program. *Bull. Fac. Agric. Cairo Univ.* 50: 1-20.
- Soliman, F.H.S.; S.H.A. Shafay; A.I. El-Agamy and M.A. Mostafa (2001):** Combining ability in maize top crosses for grain yield and oil content. *Egypt. J. Plant Breed.* 5: 43-60.
- Sultan, M.A. (1998):** Estimates of combining ability of yellow maize inbred lines in top crosses. *J. Agric. Sci. Mansoura Univ.* 23 (12): 5837-5851.
- Sprague, G.F. (1939):** An estimation of the number of top crossed plants required for adequate representation of corn variety. *J. Am. Soc. Agron.* 38: 11-16.

- Sprague, G.F. and L.A. Tatum (1942):** General vs specific combining ability in single crosses of corn. J. Am. Soc. Agron. 34: 923-932.
- Venkatesh, S.; N.N. Singh and N.P. Gupta (2001):** Use of inbred testers for evaluating combining ability in modified single cross hybrids of maize. Indian J. Genet. 61 (4): 309-313.
- Zambezi, B.T.; E.S. Horner and F.G. Martin (1986):** Inbred lines as testers for general combining ability in maize. Crop Sci. 26: 908-910.