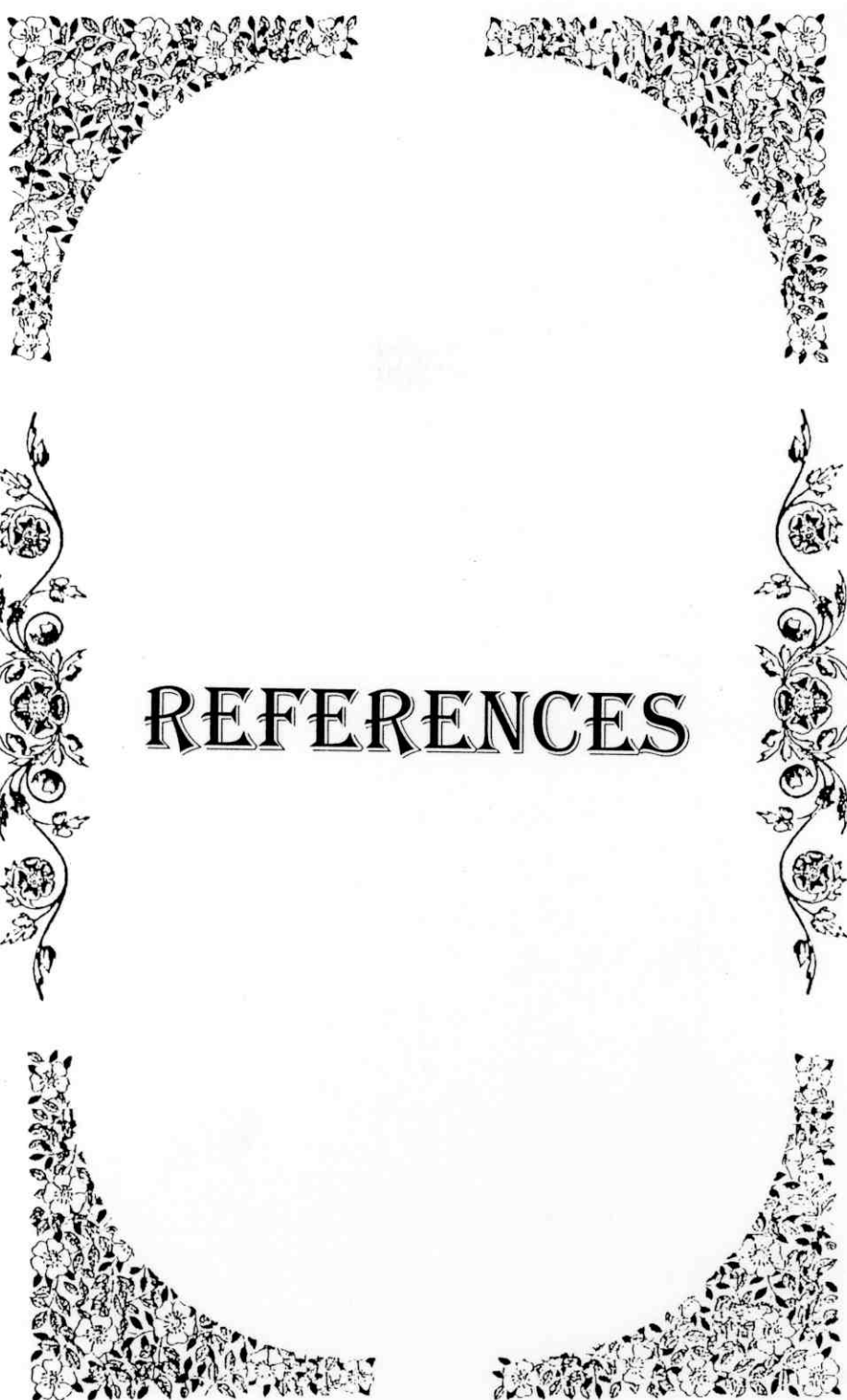


A decorative border composed of four corner pieces and two vertical side pieces. The corner pieces are filled with a dense pattern of small flowers and leaves. The side pieces are vertical strips featuring a stylized vine with large, ornate leaves and small flowers.

REFERENCES

6- REFERENCES

- Abdel-Shafi, A.M.; A.A., Gomaa; M.G., Mosaad; M.A., Gouda; R.A., Mitkees; A.H., Bassiuni; M.M., El-Shami; S.K., Mahmoud; N.S., Hanna; R.A., Armanuous; Enayat H. Ghanem; O.S., Khali); H.A., Ghanein; M.M., El-Menoufi; Kadria F. Hegazi; M.M., El-Hadidi; A.M., Eissa; M.M., Abdel Aieem ; M.M., Hamed and S.E., El-Shereef. 1985. Bani Suef 1 and Sohag 2, Two newly released durum wheat cultivars. Agric. Res. Rev., Egypt. 67(4):483-489.
- Abo-El-Enein, R.A. Mitkees, A.A. Gornaa, 1977. Nature of gene effects in the inheritance of plant height in common wheat. Egypt. Jour. Genet. Cytol., 6: 52 -61.
- Ageez, A.A.,1981 Sequence selection and heritability of some quantitative characters in wheat hybrids. Ph.D. Thesis, Fac. of Agric. Zagazig Univ. Egypt.
- Alexander, W.I., E.L. Smith and C. Dhanasobhan, 1984. A comparison of yield and yield components selection in winter wheat. Euphytica 33: 953 - 961.
- Amaya, A.A., R.H. Busch and K.L. Lebsock, 1972. Estimates of genetic effects of heading date, plant height and grain yield in durum wheat. Crop Sci. 12: 478 - 481.

- Amin, M.R., N.C.D. Barma and M.A. Razzaque, 1992.**
Variability, heritability, genetic advance and correlation study in some quantitative characters in durum wheat. *Rachis*, 11:30-32.
- Aslam. C.M., A.S. Khan, B. Ahmed and S.M. Latif, 1985.**
Diallel cross analysis for yield and some of its components in bread wheat. *Jour. of Agric. Res. Pakistan* 21(12): 39 - 45.
- Awad, H.A., 1987.** Studies on some characters related to lodging resistance in wheat. M. Sc. Thesis. Fac. of Agric. Zagazig Univ. Egypt.
- Baker, R.J., V.M. Bendelow and M.L. Kaufmann, 1968.**
Inheritance and interrelationships among yield and several quality traits in common wheat. *Crop Sci.*, 8: 725 - 728.
- Baser, I; O. Bilgin; A.Y. Bilgin and T.Genctan, 2000.**
Relationship between characters related to tillering and grain yield in bread wheat (*Triticum turgidum* L.). *Acta Agronomica Hungarica*. 2000, 48 (3): 251-256 [C.F. Computer Res, International Agric. Cent, for Information Service].
- Bhatt, G.M., 1972.** Inheritance of heading date, plant height and kernel weight in two spring wheat crosses. *Crop Sci.*, 12: 95 - 98.

- Budvytyte, A. (1992).** Use of indirect selection in faba bean breeding. Eksperimentite-Biologija No. 3-4, 60; in proceedings of plant genetical congress of the Baltic states [Estonia, Latvia, Lithuania].
- Chander, S.,R.B. Srivastava and M.D.Yunus,1993.** Impact of intermating on population mean and genetic advance in wheat [*Triticwn aestivum* L.]. Cereal Res. Commun. 21 (2-3)201 -206.
- Chapman, S.R. and F.H. McNeal (1971):** Gene action for yield components and plant height in a spring wheat cross. Crop. Sci., 11: 384-386.
- Cox, T.S., J.P. Shroyer, L. Benhui, R.G. Sears and T.J. Martin, 1988.** Genetic improvement in agronomic traits of hard red winter wheat cultivars. Crop Sci., 28: 756 - 760.
- Dhonde, S.R.; N.S. Kute; D.G. Kanawade and N.D. Sarode 2000.** Variability and characters association in wheat (*Triticum aestivum* l.). Agric. Sci. Digest., 20 (2): 99-101.
- Dokuyucu, T. and A. Akkaya (1999):** Path coefficient analysis and correlation of grain yield and yield components of wheat (*Triticum aestivum* L.) genotypes. Rachis. 8 (2): 17-20.
- El- Hosary A.A., R.M. Gomaa, R.A. Nagwa and A.H. Manal 2000.** Heterosis and combining ability in durum wheat.

9th Ed. Faculty Agric. Monfia University 1: 2. (111-117).

El- Sherbeny- GAR; MH Motawea; MS Hamada; PS Baenziger 2000. Nature of gene action controlling yield and its components in three crosses involving Egyptian and exotic bread wheat germplasm. Assiut. Journal. of Agricultural Sciences 31(5): 203-214.

Enayat H. Ghanem; A.M., AH; M.G., Mosaad; N.S., Hanna; M.M., Abdel Alcem; S.R.S., Sabry; S.K., Mahmoud; M.M., El-Shami; A.M., Moussa; H.M.M., Zaid; S.A., Abdel Majeed; A.M., Tammam and Ikhlas Shafik, 1996. Grain yield and rusts reaction of the new durum wheat (*Triticum turgidum* L.) cultivar Beni Suef 3. J. Agric. Sci. Mansoura Univ., 21(8):2781-2787.

Enayat H. Ghanem; O.H.S., Khalil; A.A., Gomaa; A.M., Abdel-Shafi AH; M.G., Mosaad; R.A., Mitkees; G.S., Yousef; A.M., Abdel Ghani; S.K., Mahmoud; M.M., Abdel Aleem; N.S., Hanna; M.A.M., Eid and S.E., Shereef. 1991. Sohag 3: A new durum wheat variety for Upper Egypt. Assuit J. Agric. Sci., 22 (3): 209-222.

Falconer, D.S. 1981. Introduction to Quantitative Genetics. Longman New York.

- Gharzai, M.K., 1985.** Protein and grain yield inheritance in four populations of hard red winter wheat [*Triticum aestivum* L.], Dissertation Abstracts International, B [Science and Engineering (12): 3663-3664 [C.F. Computer Res, International Agric. Cent, for Information Service].
- Grafius, J.E. (1964):** A geometry of plant breeding. Crop Sci. 4: 241-246.
- Gupta- Sk and SR Verma (2000):** Variability, heritability and genetic advance under normal and rainfed conditions in durum wheat (*Triticum durum* Desf.) Indian Journal of Agricultural Research 34(2): 122-125.
- Guzhov-YU.L. (1986):** A method of selection for ear weight in cereal crop breeding. Akademii. Sel skohzyaistvennykh. Nauk Tmeni V.I. Lenina 3: 4-7. [C.F. Computer Res, International Agric. Cent, for Information Service].
- Haggag, M.E.; G.A. Morshed, A.A. Gomaa; R.A. Mitkees and E.A.M. El-Sayed (1992):** Correlation coefficients as affected by environmental influences in wheat. Egypt. J. Agric. Res. 70 (4): 1253-1263.
- Hamada, A. A.; El- Seidy- E. H. and H.I. Hendawy (2002):** Breeding measurements for heading date, yield and yield components in wheat using line x tester analysis. Annals of Agricultural Science Cairo. 47(2): 587-609.

- Hamada, A.A. 1988.** Studies on some selection criteriacs in wheat. M.Sc. Thesis Fac. Agric. Zagazig Uni. Egypt.
- Hansel, H. 1984.** Selection for components of complex characteristics indirect selection. Selection in mutation breeding proceedings of a consultants meeting Vienna 25-21, 49-55 [C.F. Computer Res, International Agric. Cent, for Information Service].
- Haugead, N.G. and R.G. Camrell, 1984.** Selection for kernel weight in two- four rowed spike populations of durum wheat. Crop Sci. 24: 843 - 846.
- Islam, M.A., A.G.Faultier and R.H. Langer, 1985a.** Early generation selection in 2 wheat crosses. F3 line selection. Newzealand Jour. Agric. Res. 28: 319-323.
- Islam, M.A., A.G.Faultier and R.H.Langer, 1985b.** Gene effects for yield components in two wheat crosses. Thai. Jour. Agric. Sci. 18: 185 - 192 [C.F. Wheat Barley and Triticale Abstr. 1986].
- Jinks, J.L. and H.S. Pooni (1980).** Comparing predications of mean performance and environmental sensitivity of recombinant inbred lines based upon F₃ and triple test cross families. Heridity 45 (3): 305-312.
- Johanson, S.K.; D.B. Helsel and K.J. Frey (1983).** Direct and indirect selection for grain yield oats (*Avena saliva* L.). Euphytica, 32: 407-413.

- Joshi, P., 1987.** Gene effects in wheat "*Triticum aestivum* L".
Indian Jour. Hered. 18 (3-4): 11-18 [C.F. Wheat,
Barley, and Trilicale Abstr. 1988].
- Ketata, H., L.H. Edwards and E.L. Smith, 1976.** Inheritance
of eight agronomic characters in a winter wheat cross.
Crop Sci., 16: 19-22.
- Khalil, O.S., K.F. Hegazi and E.H. Ghanem, 1979.** Heterosis
and combining ability in common wheat by diallel
analysis. Agric. Res. Review, 57: 23 - 34
- Khan, A.S.; S. Ishtiaq and A. Zulfiqar 2003.** Heritability of
various morphological traits in wheat. International J.
Agric. and Biology., 5 (2): 138-140.
- Khattab, S.A.M.; M.A.M. Gomaa and S.A.N. Aliah 2001.**
Nature of gene action in bread wheat crosses under
normal and salinity stress conditions. Arab Univ. J.
Agric. Sci., 9(1): 297-311.
- Kheiralla, K.A. 1993.** Selection response for grain yield and its
components in a segregating population of spring
wheat. Assiut, Jour, of Agric. Sci., 24: 87 -98.
- Kheiralla, K.A., E.E. Mahdy and R.A. Dawood, 1993.**
Selection for early heading and correlated response in
grain yield and its components of spring wheat.
Assiut, Jour, of Agric., Sci. 24:95-106.

- Knott, D.K. and J. Kumar 1975.** Comparison of early generation yield 4 testing and a single seed descent procedure in wheat breeding. *Crop. Sci.*, 15: 295-299.
- Knott, D.R. 1972.** Effects of selection for F₂ plant yield on subsequent generations in wheat. *Can. Jour. of Plant Sci.* 52: 721-726.
- Knott, D.R. 1979.** Selection for yield in wheat breeding. *Euphytic*, 28: 280-283.
- Kumar, J. and P.N. Bahi 1992.** Direct and indirect selection for yield in chick pea. *Euphytica* 60: 197-199.
- Kurnar, R., S.C. Anand and D.S. Virk, 1972.** Heritability and genetic advance of some quantitative characters in crosses of wheat [*Triticum aestivum* L.]. *Res. Punjab Agric. Univ.* 9 (4):515-519 [C.F.PI. breed. Abest. 44: 40, 2300].
- Lebsock, K.L. and A. Amaya 1969.** Variation and co-variation of agronomic traits in durum wheat. *Crop Sci.*, 9: 372-375.
- Li. Z.L. and W.L. Yang, 1985.** Studies on the heritability and genetic correlation of main quantitative characters in winter wheat. *Shanxi Nongye Kexue* (Shanxi Agric. Sci.) No. 2, 11-13 (C.F. Plant. Breed. Abslr. 1986,56: 8, 7061).

- Loffler, C.M., and R.H. Busch, 1982.** Selection for grain protien, grain yield and nitrogen partitioning efficiency in hard red spring wheat. *Crop Sci.*, 22: 591-595.
- Loffler, C.M., R.H. Busch, and J.V. Wiersma, 1983.** Recurrent selection for grain protien percentage in hard red spring wheat. *Crop Sci.*, 23: 1097- 1101.
- Lungu, D.M., P.J. Kaitikes and E.N. Larter, 1990.** Intra and intergcne-ration relationships among yield, its components and other related characteristics in spring wheat. *Euphytica*, 45:139-153.
- Mahdy. E.E., 1988 a.** The efficiency of some selection procedures in wheat (*Tritiaun aeshvum* L.). *Cereal Res. Coinmun.* 16: 175-181.
- Mahdy. E.E., 1988 b.** Single and multiple traits selection in asegregation population of wheat (*Trilicum aestivwn* L.). *Plant Breeding.*, 101:245-249.
- Masood, M.S. and A.R. Chaudhary, 1987.** Heritability estimates and genetic advance values of some agronomic characters involving exotic and indigenous wheat varieties. *Pak. Jour. Agric. Res.*, 8: 7-11 [C.F. Wheat, Barley and Triticale Abstr., 1988].
- Mathar, K., 1949.** *Biometrical Genetics.* Methun, London.

- McNeal, F.M., C.O. Qualset, D.E. Baldrige and V.R. Stewert, 1978.** Selection for yield and yield components in wheat. *Crop Sci.*, 18:795 -799.
- Mehla, B.S.; S.C. Sharma and J.S. Hooda 2000.** gene action for certain quantitative traits in wheat *Annals of Biology Ludhian* 16(1): 95-100.
- Mitchell, J.W., R.J. Baker and D.R. Knott, 1982.** Evaluation of honeycomb selection for single plant yield in durum wheat. *Crop Sci.*, 22: 840 - 843.
- Mitkees, R.A., 1976.** Inheritance of some yield components in wheat crosses. M.Sc. Thesis , Fac. of Agric. Al Azhar Univ.
- Mitkees, R.A.; A.A. Gomaa; M.E. Haggag; G.A. Morshed and E.A.M. El-Sayed 1992.** Path coefficient of components of wheat yield as effected by nitrogen fertilization. *Egypt. J. Agric. Res.*, 70 (4): 1243-1251.
- Mustafa, I.D., V.V. Figarova, R.G. Dzhafarova and M.A. Ashurova, 1986.** Variation and inheritance of productive tillering; bread wheat hybrids. *Izvestiya Akademii Nauk Azerbaidzanskoi SSR, Biologicheskikh Nauk*, No. 1: 49-53. [C.F. Wheat, Barley and Triticale Abst. 1988- 107].
- Nanda, G.S., G.S.Singh and K.S.Gili, 1990.** Efficiency of intermaling in F2 generation of an intervartietal cross in bread wheat. *Indian Jour. Genet.*, 50: 364 - 368.

- Nasir Ud-Din, B.F.Carver, and A.C.Clutter, 1992.** Genetic analysis and selection for wheat yield in drought stressed and irrigated environments. *Euphytica*, 62: 89-96.
- Nass, H.G., 1973.** Determination of characters for yield selection in spring wheat. *Can. Jour. Pl. Sci.*, 53: 755 - 762.
- Raut, S.K.; J.G. Manjaya; P.W. Khorgade, 1995.** Selection criteria in wheat (*Triticum aestivum* L.). *P.K.V.Res.J.*, 19 (1): 17-20. [C.F. Computer Res, International Agric. Cent, for Information Service].
- Raut, S.K.; J.G. Manjaya; P.W. Khorgade, 1995** Selection criteria in wheat (*Triticum aestivum* L.). *P.K.V. Res. Jour.* 19(1):17-20.
- Saadalla, M.M. 1994.** Response to early generation selection for yield and yield components in wheat. *Egypt Jour. Appl. Sci.*, 9 (7): 19-30.
- Saini, D.P. and P.L.Gautam, 1990.** Early generation selection in durum wheat. *Indian Jour. Genet.* 50: 147-152.
- Salman, R.M. and E.G. Heyne. 1987.** Inheritance of six yield components of winter wheat (*Triticum aestivum* L.). *Trans Kans Acad Sci.* 90 (3-4) 103 - 112 [C.F. Computer Res. International Agric. Cent. for Information Service].

- Sawant, A.R., and K.B.L. Jain, 1985.** Gene action for certain quantitative characters in common wheat in optimal and suboptimal environments. *Indian Jour. Genet.* 45:376 -384.
- Senapati N., Swain S.K. and M.C. Patnaik (2000):** Combining ability and nature of gene action in bread wheat. *Environment and Ecology*, 18(1): 258-260.
- Sharma, S.K.; K.P. Singh; I .Singh, 1995.** Selection responses for grain weight in some mass selected and intermated populations of wheat (*Triticum aestivum* L.). *Indian J. Genet. Pl. Breeding.*, 55 (4): 365-373.
- Shekhawat U.S.; Bhardwaj R.P.; Vijay Prakash and V. Prakash (2000):** Gene action for yield and its components in wheat (*Triticum aestivum*, L.). *Indian J. Agric.Res.*, 34(3): 176-178.
- Shukla R.S.; Y. Mishra and C.B. Singh, 2000.** Variability and association in bread wheat under rainfed condition. *Crop Res.Hisar.*, 19 (3): 512-515.
- Siddique, K.H.M., and B.R.Whan, 1994.** Ear: stem ratios in breeding populations of wheat significance for yield improvement. *Euphytica*, 73: 241 - 254.
- Singh L.R.; S.p.Songh; P. Kumar; R. Kumar; and G. Singh 2001.** Estimation of gene action through triple test cross in common wheat (*Triticum aestivum*, L.). *Progressive Agric.* 1(1): 20-23

- Singh, G.; G.S. Nanda and K.S. Gill, 1984.** Inheritance of yield and its components in 5 crosses of spring wheat (*Triticum aestivum* L.). Indian Jour. Agric. Sci., 54: 943 - 949.
- Smith, J.D., and M.L. Kinman, 1965.** The use of parent-offspring regression as an estimator of heritability. Crop Sci., 5: 595-596.
- Srivastava, R.B.; S.C. Sharma and M. Yunus, 1992.** Additive and non-additive gene effects for yield and yield components in two crosses of wheat. Indian, J. Genet., 52:297-301.
- Tejbir Singh and Balyan H.S. (2003):** relative efficiency of various single plant selection criteria and F₃ generation yield testing in wheat (*Triticum aestivum*, L.). Indian J. genet. 63 (1): 24-29.
- Uddin, M.M. and O.I. Hoarder (1987):** Genetic architecture of heading date, fertile ear number and yield of wheat. Pak. Jour. Agric. Res. 7: 1-9 [C.F. Computer Res, International Agric. Cent, for Information Service].
- Virk, D.S., 1973.** Heritability and homogeneity of correlations in crosses of wheat (*Triticum aestivum* L.). Madras Agric Jour. 60: 229 - 232.
- Wells, W.C. and K.D. Kofoed (1986).** Selection indices to improve an intercrossing population of spring wheat. Crop Sci. 26: 1104-1109.

Whan, B.R., A.J. Rathjen and R.K.Knight, 1981. The relation between wheat lines derived from the F2, F3, F4, and F5 generations for grain yield and harvest index. *Euphytica*, 30: 419 - 430.

Whan, B.R.; R. Knight and A.J. Rathjen (1982). Response to selection for grain yield and harvest index in F2, F3 and F4 derived lines of two wheat crosses. *Eiiphytica* 31: 139-150.