

6. REFERENCES

- Abdalla, A.M. (2002).** Effect of bio-and mineral phosphorus fertilizer on the growth, productivity and nutritional value of faba bean. Egypt. J. of Horticulture. 29 (2): 187-203.
- Abd El Aziz, A. and F.H. Shalaby (1999).** Physiological studies on response of new released faba bean varieties to different plant populations. Zagazig, J. Agric. Res., 26 (5): 1229 - 1244.
- Abd El Aziz, M. A. (2007).** Effect of plant density and phosphorus fertilizer on growth and yield on variety domain of faba bean (*Vicia faba L.*). Minia J. of Agric. Res. & Develop. 27(1): 135-150.
- Abd El-Latif, M.A.(2004).** Yield and seed quality of faba bean as affected by some environmental factors. Ph.D. Thesis, Fac. of Agric. Cairo. Univ.
- Abo El-Nour, E.A.; A.A.El-Sayed and A.A El-Bendary (1996).** Effect of phosphate biofertilizer "phosphorein" on growth, yield and nutrient uptake of faba bean plants .J. Agric. Sci., Mansoura Univ., 21(2):477-483.
- Aguilera-Diaz and Recalde-Manrique (1995).** Effect of plant density and inorganic nitrogen fertilizer on field beans (*Vicia faba L.*). J. of Agric. Sci., Cambridge Univ., 125: 87-93.

- Ahmed, M.K.A.; M.H. Afifi and M.F. Mohamed (2003).**
Effect of biofertilizers, chemical and organic fertilizers
on growth, yield, and quality of some leguminous crops.
Egypt. J. of Agron. 25: 45-52
- Ahmed, M.A. and H.M.H. El-Abagy (2007).** Effect of bio –
and mineral phosphorus fertilizer on the growth,
productivity and nutritional value of some faba bean
(*Vicia faba L.*) cultivars in newly cultivated land. J. of
appl. Sci. Res. 3 (6): 408 – 420.
- Ali, E.A.(1997).** Response of (*Vicia faba L.*) to phosphorus
fertilization and foliar spraying with urea and stimofol.
Ann. of Agric. Sci., Moshtohor , 35 (3) :1099-1108.
- Amanuel. G.; R. F. Kuhne and D. G. Tanner (2000).**
Biological nitrogen fixation in faba bean (*Vicia faba L.*)
in the Ethiopian highlands as affected by P. fertilization
and inoculation. Biol. Fertile. Soils 32 : 353-359.
- A.O.A.C (1990).** Official methods of Analysis, 15th Ed.
Washington, D.C., U.S.A.
- Ashmawy, F.; S.A.S Mehasen, and M.S.A Mohamed.**
(1998). The relative contribution of some characters to
seed yield in some faba bean varieties grown under
three population densities. Bull. Fac. Agric., Cairo,
Univ. 49: 515 - 532.
- Bakheit, B.R.; A.Y Allam and A.H. Galal, (2001).** Response of
some faba bean cultivars to planting dates and
population densities. Assiut. J. of Agric. Sci., 32 (2):
85-101

- Ben Mohamed, A.E.(2003).** Effect of planting date and planting density on growth and yield of some faba bean varieties. M.Sc. Thesis Fac. Agric., Cairo Univ.
- El-Deeb, M. A.; A. H. A. Hussein; K H. M. Yamani and T. S. A. El-Marsafawy, (2006).** Response of new faba bean genotypes to different sowing dates and plant densities in the new valley. First field Crop Conf. 22-24, August, Giza- Egypt 358-362.
- El-Douby, K.A., K.E., El-Habbak, S.F.M. El-Nasr, and S.A. Basal (1996).** Effect of tillage system and plant density under different phosphoric fertilization levels on the productivity of faba bean. Ann. Agric. Sci., Moshtohor, 34 (3) : 907 - 918.
- El- Douby, K.A; S.E, Toaima, and R.A Atalla, (2000).** Effect of ridge width and plant distribution patterns on faba bean yield and some of its compoents. Ann. Agric. Sci., Moshtohor. 38 (2): 711-722.
- El-Gizawy, N.Kh.B and S.A.Mehasen (2009).** Response of faba bean to bio, mineral phosphorus fertilizers and foliar application with Zinc. World Appl. Sci. J. 6 (10): 1359 – 1365.
- El-Kalla, S.E.; A.K Mostafa.; A.A. Leilah and A.A. Rohia (1999).** Mineral and bio-phosphatic fertiliziation for intercropped faba bean and onion. Egypt. J. Agric. Res., 77(1): 253-271.
- El-Murshedy, W.A.; M.A.El-Metwally and G.O.Mohmoud (2002).** Performance of two faba bean varities under different plant densities and nitrogen fertilization. Assuit J. Agric. Sci., Egypt , 30 (4): 200-210.

- El-Refaey, R. A.; M.S.El- Keredy; M.A. El-Hity and G.G.Abou Zied, (1999).** Estimation of heterosis and combining ability in faba bean under two plant population densities II - yield and some of its components. *Ann. Agric. Sci.,Moshtohor*, 37 (2): 917 - 939.
- El-Shouny, K.A., A.M.;Abo-Shetaia; M.A Abd El- Gawad. and B.Sh. Hossny, (1998).** Studies on the effect of some Agricultural treatments and faba bean varieties on the seed filling under weste northen-coast condition of Egypt. *Proc. 8 th Conf. Agron., Suez Canal Univ. Ismailia, Egypt*, 28 - 29 Nov.300-306.
- Ghizaw, A.; T. Mamo; Z.; Yilma A. Molla and Y.Ashagre (1999).** Nitrogen and phosphorus effects on faba bean yield and some yield components. *J. of Agron. and Crop. Sci.* 182 (3): 167-174.
- Gomaa, M.A.(1991).** The effect of phosphatic and zinc fertilization on growth and yield of faba bean plant. *Ann. of Agric. Sci., Moshtohor*, 29 (2): 769-780.
- Gomez, K.A. and A.A. Gomez (1984).** Statistical procedures for Agriculture Research – John Willey and Sons. Inc. New York.
- Hafiz, S.I. and H.M Abd El-Mottaleb,.(1998).** Response of some faba bean cultivars to foliar fertilization under newly reclaimed sandy soil conditions. *Proc. 8th Conf. Agron, Suez Canal Univ., Ismailia, Egypt*, 28 - 29 Nov.307-316.

- Hamada, M.A. (1990).** Effect of foliar fertilization of nitrogen and phosphorus on seed yield and its components of faba bean. *Ann. of Agric. Sci., Moshtohor.* 30 (3): 1172-1177.
- Hamed, M.F. (2003).** Faba bean productivity as affected by zinc and phosphorein. *Annals. of Agric. Sci., Moshtohor* 41 (3): 1047-1056.
- Hamissa, A.M.; F.M. Hammouda and R.E. Knany (2000).** Response of nodulated faba bean crop to phosphate solubilizing bacteria fertilization and copper foliar spray application. *J.Agric. Sci. Mansoura Univ.,* 25 (5): 2995-3007.
- Hashemabadi,D. and S. Sedaghathoor (2006).** Study of mutual effect of the sowing date and plant density on yield and yield components of winter bean (*Vicia faba L.*). *J. Agric. Sci., Islamic-Abad-Univ.* 12 (1): 135-142.
- Hassan, A.A. and S.I Hafiz (1998).** Agronomic characteristics yield and its components of some faba bean cultivars as affected by planting methods and plant spacing. *Proc. 8th Conf. Agron., Suez Canal Univ., Ismailia, Egypt,* 28 -29 Nov.317-325.
- Hassan, M.W.A.; M.S. Said,; M.M. El-Hady and M.A Omar (1997).** Response of new released faba bean varieties to different plant populations in the newly reclaimed of Nubaria region. *Bull Fac. Agric. Cairo Univ.* 48: 473-484.

- Hussein, A.H.A.; M.A.El-Deeb and Kh. El-Yamani (2002).** Response of new fab bean genotypes to different sowing dates and plant densities in newly reclaimed lands in upper Egypt .National Ann. Coordination meeting., Cairo, 22-23 Sept. 70-74.
- Hussein, A.H.A.; M.A.El-Deeb; S.R.Saleeb and Kh. El-Asseily (1999).** Response of the new faba bean genotypes to different plant densities in the old and newly reclaimed land in middle and upper Egypt .Arab Univ. J.Agric. Sci., Ain Shams Univ., 7 (2): 467-473.
- Ibrahem. N.T. (2000).** Spectral reflectance of faba bean plants in relation to growth and yield. M.Sc.Thesis,Fac.Agric., Ain Shams Univ.
- Idris, A.L.Y. (2008).** Effect of seed size and plant spacing on yield and yield compoents of faba bean (*Vicia faba L.*) . Res. J. of Agric. and Bio. Sci.; 4 (2): 146-148.
- Jackson, M.L. (1958).** Soil chemical analysis. Prentic-Hall, Englewood Califfs New Gersey, U.S.A.
- Kanany R.E.; Y.B. Masoud and A.M. El-Waraky (2004).** Comparative study between biofertilization and sulphur on availability of added phosphorus to faba bean plants under high PH soil conditions. J.Agric. Sci.Mansoura Univ. 29 (8): 4801-4809.
- Koreish, E.A.; M.E El-Fayoumy; H.M. Ramadan, and H. Mohamed (2004).** Interaction effect of organic and mineral fertilization on faba bean and wheat productivity in calcareous soils. Alex.J.Agric. Res. 49 (2): 101-114.

- Kozak, M.; A. Kotecki and W. Malarz, (2007).** The effect of different plant densities on the growth and yielding of three field bean cultivars. *Fragmenta- Agron.* 24 (2): 168-176.
- Lopez-B.G., J.; B.G., R Lopez- (2003).** The density of plants in faba bean crops. *Agric. Revista- gropecuaria.* 72 (849): 196-199.
- Lopez – Bellido F.J.; L. Lopez – Bellido, R. J. and Lopez – Bellido (2005).** Competition, growth and yield of faba bean. *Europ. J. Agron.* (23): 359 – 378.
- Michigan State University, (1983).** MSTAT-C: Micro-computer Statistical Program, Version 2. Michigan State University, East Lansing.
- Mohamed G.A. (2005).** Yield and yield components of faba bean (*Vicia faba L.*) as affected by phosphorus and nitrogen fertilization levels. *Assiut J. of Agric. Sci.* 36 (6): 111-121.
- Mohamed, K., (2000).** Response of two faba bean varieties to different plant densities and distributions. Ph. D. Thesis, Fac. of Agric. Cairo Univ.
- Mohamed M.A. (2007).** Response of faba bean plants to planting dates and bio- and chemical phosphatic fertilization in relation to insects infection of seeds. M.Sc. Thesis, Fac. of Agric., Moshtohor Benha Univ.
- Mokhtar, A. (2001).** Response of yield and yield components of faba bean (*Vicia faba, L.*) to increasing levels of nitrogen and phosphorus under two levels of plant stand density. *Ann. Agric, Sci., Ain Shams Univ.,* (1): 143-154.

- Munir A. and M.T. Abdel-Rahman (2002).** Impact of seeding rate, and method of phosphorus application in faba bean (*Vicia faba L. minor*) in the absence of moisture stress. Bio. Agron. Soc. Environ. 6 (3): 171-178.
- Noeaman, M. A. (1989).** Response of faba bean to sowing date and population density. M.Sc. Thesis Fac. of Agric. Moshtohor Benha Univ.
- Radford, P.J. (1967).** Growth analysis formula -Their use and Abuse. Crop Sci., 7 : 171-175.
- Radwan, F.L. (1992).** The effect of phosphatic fertilizer and weed control methods on growth and yield of faba bean (*Vicia faba L.*) Ann. of Agric. Sci., Moshtohor .(30): 1191-1205.
- Refay, Y.A. (2001).** Effect of planting dates and plant density on two faba bean lines grown under the central region conditions of Saudi Arabia Arab Univ. J. Agric. Sci., 9 (1): 79-93.
- Richard, L.A. (1954).** Diagnosis and improvement of saline and alkaline soil. USDA Handbook No. 60.
- Saad, A.O.M. and M.A El- Kholy, (2000).** Response of some faba bean cultivars to phosphorus and magnesium fertilization. Egypt. J. of Agron. 22, 19 - 38.
- Saleh, S.A.; M.A El-Deeb and A.A. Ragab, (2000).** Response of faba bean (*Vicia faba L.*) to rhizobium inoculation as affected by nitrogen and phosphorus fertilization. Bull. Fac. of Agric. Cairo Univ 5 (1): 17-30.

- Saleh, S.A.; M.A Nassef; F.T Mikhaeel and A.A.A Soud (2008).** Response of faba bean (*Vicia faba L.*) to combined inoculation with rhizobia, VA- mycorrhizae soil conditions. Arab-Univ. J. of Agric. Sci., 16 (2): 309-317.
- Shahein, A.H.; E.M.R Agwah and H.A El-Shamma (1995).** Effect of plant density as well as nitrogen and phosphorus fertilizater rates on growth, green pods and dry seed yield and quality of broad bean. Ann. of Agric Sci. Moshtohar 33 (1): 371 – 388.
- Sharaan, A.N.; A.E. Ekram Megawer, H.A Saber. and Z.A Hemida (2003).** Seed yield components and quality characters as affected by cultivares, sowing dates and planting distains in faba bean . Bull. Agric. Ecan., Min. Ageic., Egypt, 1998-2002.
- Tageldin, M. H. A. and S.A.S Mehasen (2004).** Faba bean cultivars fertilized with phosphorus assessed for precision and bias of yield estimation techniques and for yield component power and sample size. Ann. of Agric. Sci., Moshtohar. 42 (3): 975-988.
- Yeeransiri, P.; P. Prapanoppasin and W. Chanprasert (2001).** Effect of plant density on seed yield and seed quality of broad bean (*Vicia faba L.*). Thai-J. of Agric. Sci., 34 (1/2): 59-68.
- Zeidan, M.S. and E.M. Abd El-Lateef (2001).** Response of determinate and indeterminate faba bean to nitrogen and phosphorus levels. Egypt. J. Appl. Sci., 16 (1):112-127.