

REFERENCES

- Abayomi,A.Y. (1987).** Growth, yield and crop quality performance of sugarcane cultivar Co.957 under different rates of application of nitrogen and potassium fertilizers. J. Agric. Sci. Camb., UK., 109 (2): 285-292. (C.F.Hort. Abst. 87, 75: 10068).
- Abbase,H.A. and A.H. Al-Younis (1988).**Effect of nitrogen fertilization and plant population on yield and quality of sweet sorghum. Mesopotamia J. of Agric. 20 (2) 13-21.
- AbdEl-Latif,F.A.(1980).** Effect of some agricultural practices on yield and other essential characteristics of sugarcane. M.Sc.Thesis, Fac. Agric., El-Minia Univ., Egypt.
- Adam,M.S.(1999).** The promotive effect of the cyanobacterium *Nostoc muscorum* on the growth of some crop plants. Acta. Microbiologica- polonica, 48 (2):163-171.
- Agnal,M.B.; M.D.Kachapur and M.B.Chetti (1993).** The quality characters of sweet sorghum (*Sorghum bicolor* (L.) Moench) genotypes as influenced by different nutrient levels. Karnataka, India.(C.F.Field Crop Abst.46 No.9).
- Agrawal.S.B.; K.M.Dubey; G.S.Thakur and R.K.Dubey (1996).**Saving of nitrogen by *Azotobacter* inoculation in forage sorghum (*Sorghum bicolor* (L.) Moench) .Advances in Agric.Res. in India, 5: 52-54.

- Ahmed,M.S.; G.Muhammed; M.Asalam and K.B.Malik (1993).** Effect of different levels and application times of potash fertilizer on growth and yield of sugarcane. Pakistan Sugar J., 7(4): 3-6.
- Alagawadi,A.R. and A.C.Gaur (1988).** Interaction between *Azospirillum brasilense* and phosphate solubilizing bacteria and their influence on yield and nutrient uptake of sorghum. Zentralblatt- fur Mikrobiologie 143(8): 637-643. (C.F. The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 4427-57-8 UD: 672415)
- Alagawadi,A.R. and A.C.Gaur (1992).** Inoculation of *Azospirillum brasilense* and phosphate solubilizing bacteria on yield of sorghum. Trop. Agric., 69 (4): 347-350.
- Al-Karaki,G.N. (1992).** Water stress and phosphorus nutrition effects on growth, phosphorus uptake and some physiological traits in sorghum and beans. Dissertation Abst. International.B., Sci. and Engineering 52 (11) 5585-5586 ; Abst. of Thesis, Univ. of Nebraska, U.S.A.
- Allam,A.I.; Mona,M.Shehata, and M.A.Hegazy (1982).** Effect of potassium fertilization on sugarcane yield and juice qualities. Proc.3rd Conf. Bot., Feb.,1982.
- Alves,A.C.; J.L.Brauner; D.S.Cordeiro; E.P.Zonta and L.A.V.Correa (1988).** Nutritional requirements for potassium, calcium and magnesium in sweet sorghum. Pesquisa Agropecuaria (1991) 23 (5): 529-536. (C.F. Field Crop Abst., 44 No.10).
- Alves,A.C.; J.L.Brauner; E.P.Zonta; D.S.Cordeiro and L.A.V.Correa (1986).** Diagnosis of foliar potassium in sweet sorghum identification of the best plant organs and

growth for sampling. Pesquisa Agropecuaria Brasileira 21(7): 685-690 (C.F. Abst. on Sweet Sorghum, Jul.,1997).

Ammaji,P. and K. Suryanarayana (2003). Response of fodder sorghum varieties to different levels of nitrogen. J. of Res. ANGRAU, 31(2): 109-112. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 0970-0226UD: 3186010)

Amrutsagar,V.M. and K.R.Sonar (1999). Different forms of potassium as influenced by potash application to sorghum in an Inceptisol. J. of Maharashtra Agric. Univ.24(1): 14-16.

Ananda Rao,B. and P.R.Raddy (1973). Dry matter accumulation at important physiological stages, grain yield and protein quality under different levels of nitrogen in sorghum. Indian J.Agric.Sci. 43 (2): 138-142.

Arvind,M. and N.Mohan (1990). Effect of biofertilizers and their method of application on nitrogen economy in sugarcane. Indian J.Agron. 35 (1&2): 120-125.

Atia,N.E.(1990). The relation between the optimal stage of maturing and fertilization and its effect on the yield, sugar and treacle quality of sweet sorghum (*Sorghum bicolor* L.) Ph.D .Thesis, Fac. of Agric., Minia Univ., Egypt.

Badanur,V.P. and P.B.Deshpande (1987). Soil moisture and nutrient interaction effects on yield and nutrient uptake in Rabi sorghum grown on a Vertisol. J.of the Indian Soc. Of Soil Sci.35 (3): 404-411.

- Badawy,F.H.; G.A.S.El-Gharably; M.A.Gammea; H.Rageb and M.A.El-Desoky (1997).** *Azospirillum* inoculation of cereal crops in Upper Egypt. Egyptian J. of Microbiology. 32 (1): 17-40.
- BadrEl-Din,S.M.S. and M.S.M.Saber (1983).** Effect of phosphate dissolving bacteria on P- uptake by barely plants grown in a salt affected calcareous soil. Zeitschrift fur pflanzenernahrung und Bodenkunde, 146 (5): 545-550. (C.F.Field Crop Abst., 1985,38: 4070).
- Bajpai,P.D. and W.V.B.S.Rao (1971).** Phosphate solubilizing bacteria. Part 3.Soil inoculation with phosphorus solubilizing bacteria. Soil Sci. and Plant Nutri., 17(2): 46-53.
- Balasubramanian,A.; L.Arunachalam and S.Palaniswamy (1986).** Integrated nitrogen management in sorghum. Sorghum Newsletter, (29):39.
- Balasubramanian,A. and K.Ramamoorthy (1996).** Effect of nitrogen and phosphorus fertilization on juice yield and quality of sweet sorghum. Madras Agric. J. 83 (7): 464.
- Bennett,W.G. (1982).** Alcohol production potential of four sorghum (*Sorghum bicolor* (L.) Moench) cultivars utilizing commercial and legume nitrogen . M.Sc.Thesis, Dep. Of Agron. Mississippi State Univ.
- Bishnoi,S.R. and B.Singh (1990).** Estimation of soil critical limit of available P for predicting sorghum response to applied P. J. of the Indian Soc. of Soil Sci., 38 (4): 763-764.
- Boon-Ampol,P.; R.Meesawat and B.Unkasem (1980).** Effect of nitrogen on growth and yield of three irrigated

sorghum varieties in dry season. Thai J. Agric.Sci.,13 (3): 173-177.

Brown,M.E. (1974). Seed and root bacterization. Ann. Rev. Phytopath., 12: 181-197.

Caballero,R.; R.Barroso; J.Gandarilla and A.Guerra (1987). Effect of potassium fertilization on sugarcane in a purple ferritic soil. Ciencia-Y-Tecnica-en-la-Agric.Suelos-Y-Aroquimica,10(3): 17-25. (C.F.Hort. Abst., (89):6193, 1989).

Carrutherus,A. and J.F.T. Oldfield (1961). Methods for the assessment of beet quality. Int. Sugar J. 63 (72): 103-105.

Carvalho,D.S.; L.A.Fontes; A.A.Cardoso; W.Moura,Filho and B.V.Defelipo (1980). Effect of N fertilizer on DM accumulation and grain yield of grain sorghum (*Sorghum bicolor* (L.) Moench) Revista Ceres 27(152): 403-412.

Casanovas,H. and R.de.Armas (1984). Influence of potassium on the content of minerals and aconitic acid in sugarcane juice. Ciencias de-la-Agric.,18: 71-79. (C.F. Soils and Fert., 50 (4): 3509,1987).

Chaudhury,M.K.A.; M.H.Rahman and M.A.Majid (1989). Effect of potash on the growth and yield of sugarcane in old Himalayan Piedmont Plain Soils (Bangladesh). Proc.14 th Annl. Bangladesh Sci. Conf. Dhaka, 27-30 Jan.

Chauhan,R.S. and R.N.Singh (1986). Optimum time of harvest and storage of sweet sorghum (*Sorghum bicolor*

L.Moench) for yield and quality. Indian J.Sug. Cane Tech. 3: 141-142.

Chiduza,C.(1999). Effect of various management strategies on the ratooning ability of sorghum cultivars SV1 and SV2. Crop Res. Hisar, 17 (2): 133-139.

Chitdeshwari,T.; M.S.Dawood and D.Krishnadoss (1998). Different levels of nitrogen and potassium on the yield and nutrient availability of sorghum under rainfed vertisol. Madras Agric. J. 85 (2): 142-145.

Chouhan,S.S. and J.M.Dighe (1999). Chemical composition, yield and yield attributes of sorghum genotypes under different fertility levels in Malwa region. Crop Res. Hisar.17(2): 149-152.

Collazo,M.; R.Armas and O.Perez (1985). Influence of potassium on the early stages of sugarcane development. II- Biochemical and nutritional aspects. Ciencias-de-la Agric., 24: 62-71. (C.F.Hort. Abst., 1987, 57: 6748).

Dakore,H.G. and A.M.Mungikar (1991). Fertilizer effect on sorghum and its residual effect on succeeding crop of sunflower. Indian J. of Agric. Res. 25 (4): 211-216.

Das,S.K.; K.L.Sharma; K.Srinivas and N.Saharan (1997). Effect of cultivars, nitrogen sources and soil types on response of sorghum (*Sorghum bicolor* L.) to *Azospirillum* inoculation. Annals of Agric. Res. 18 (3): 313-317.

Day,A.D. and T.C.Tucker (1977). Effects of treated municipal waste water on grow the fiber protein and amino acid content of *Sorghum bicolor* grain. J. Environ. Qual. 6 (3): 325-327.

- Desale,A.G. and B.K.Konde (1984).** Response of sorghum to seed bacterization with nitrogen levels. J. of Maharashtra Agric. Univ. 9 (2): 169-170 .
- Deshmukh,V.N.; K.T.Naphade; A.H.Atre and S.S.Rewatkar (1994).** Yield and nutrient uptake by sorghum as influenced by fertilizer and farmyard manure.J. of Maharashtra Agric. Univ. 19 (1): 120-121.
- Devaraj,G. and V.S.Shanmuga (1988).** Effect of spacing, set types, seed rates, systems of planting and N levels on growth characters of sugarcane. Agron. J. No, 3 (15).
- Devlin, R.M. (1975).** "Plant Physiology". 2nd Ed., 260-261 East-West Press Privated Ltd.
- De Whalley,H.C.S. (1964).** ICUMSA methods of sugar analysis. Elsevier Pub. Co., New York: 10-19, 37-44.
- Dhillon,N.S.; B.S.Brar and A.C.Vig (1993).** Effect of farm yard manure, nitrogen, phosphorus and potassium application on cane yield and sugar content of sugarcane (cultivar Co.J 64). Indian Sugar, 43 (3): 171-174.
- Singh,Dilip and G.L.Jain (1994).** Effect of potassium in combination with nitrogen and planting patterns on autumn sugarcane (*Saccharum officinarum*). Indian J. Agric. Sci., 64 (6): 397-399.
- Dobbelaere,S.; A.Croonenborghs; A.Thys ; D.Ptacek ; J.Vanderleyden ; P.Dutto ; C.Labandera-Gonzalez ; J.Caballero-Mellado ; J.F.Aguirre ; Y.Kapulnik ; S.Brener; S.Burdman; D.Kadouri ; S.Sarig and Y.Okon (2001).** Responses of agronomically important crops to inoculation with *Azospirillum*.Contributed

papers from the 8 th International Symposium on N-fixation with Non- Legumes, Sydney, NSW, Australia, 3-7 Dec.2000. Australian J.of Plant Physiol. 2001, 28: 9, 871-879.

Domey,S. and G.Lippmann (1988). Stimulation of plant growth by phosphate solublizing bacteria. Interrelationships between microorganisms and plants in soil. J. Soil Sci.,18: 457-461.

Donaldson,R.A.; J.H.Meyer and R.A.Wood (1990). Response to potassium by sugarcane grown on base saturated clay soils in the eastern transvaallowland. South Africa Sug. Technol. Assoc., 64:17-21. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 3251-41-5UD: 974205)

Durai,R. and V.K.Ravichandran (1996). *Azospirillum* inoculation on sugarcane. Madras Agric. J. 83 (11): 691-693.(C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 7727-37-9UD: 980416).

Eid,A.M.; N.A.Hegazi; M.Monib and E.Shokr (1984). Inoculation of grain sorghum with *Azospirillum*. Revue d'Ecologie- et-de- Biologie-du-Sol. 21(2): 235-242. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 1514-82-7UD: 837462)

El-Bassel,A. (1992). Improving sugarcane by inoculation with free- living nitrogen fixing bacteria.9th Internat. Cong. On Nitrogen Fixation, Cancun Mexico, 1992.

El-Geddawy,I.H. ; M.A.Farag ; M.A.El-Said and A.S.El-Gergawi (1988). Effect of levels of N- fertilizer on yield and quality of sugarcane Agric. Res. Rev. 66 (3): 489-496, Egypt.

- El-Hefnawy, N.N.; E.O.Ewies and E.M.Taha (1991).** Effect of phosphorus fertilization and application of ferrous sulphate on grain sorghum. Minufiya. J.Agric. Res.16 (1): 217.
- El-Maghraby, Samia, S.; A.A.Gaber and S.Y.Becheet (1989).** Effect of nitrogen and phosphorus fertilization on sugar sorghum and its syrup. Comb. Sci.& Dev. Res., 27: 143-154.
- Elsebaaie, I.A.; M.K.Ahmed and L.Olugbuni (1982-a).** Effect of fertilizers and spacings on growth characters of photosensitive sorghum (*Sorghum bicolor* L.) in the Guinea Savanna of Nigeria, Agric. Res. Rev. 60 (8): 143-154.
- Elsebaaie, I.A.; M.K.Ahmed and L.Olugbuni (1982-b).** Grain yield, Yield components and grain protein content of sorghum (*Sorghum bicolor* L.Moench) as influenced by plant density and fertility levels in Guinea Savanna of Nigeria, Agric.Res.Rev.,60 (8): 177-190.
- El-Taweel, Fayza, M.(1994).** Response of some sweet sorghum cultivars to nitrogen and potassium fertilizers. M.Sc. Thesis, Fac. Agric. Moshtohor, Zagazig Univ.
- Ercoli, L.; A.Masoni; M.Mariotti and E.Bonari (1999).** Effect of soil texture and nitrogen fertilization on biomass and nitrogen and phosphorus uptake by sorghum. Agric. Mediterranea. 129 (4): 256-264.
- Escalada, R.G. and D.L. Plucknett (1977).** Ratoon cropping of sorghum. II- Effect of nitrogen and cutting height on ratoon performance. Agron.J. 69: 583-586.

- Farrage, A.A.; N.M.Zaki and M.M.El-Gazzar (1997). Effect of foliar applied potassium on forage yield and nutritive value of guar sown alone or with sweet sorghum and sudan grass. Bulletin of Fac. of Agric. Univ. of Cairo. 48 (3): 485-497.
- Fereira, J.A.R.; V.A.Covalcante; J.I.Baldani and J.Dobereiner (1988). Field inoculation of sorghum and rice with *Azospirillum* spp. and *Herbaspirillum seropedicae*. Plant and Soil, 119: 209-224
- Gadhethariya, H.U.; N.M.Sukhadia and B.B.Ramani (2000). Response of multicut forage sorghum (*Sorghum bicolor* (L) to biofertilizers and levels of nitrogen . Gujarat Agric. Univ. Res. J., 26 (1): 55-58.
- Gaikwad, C.B.; A.J.Patil; J.D.Patil; S.B.Chavan and S.S.Sonawane (1995). Performance of legume- sorghum (*Sorghum bicolor*) cropping sequence in Vertisols. Indian J. of Agron. 40 (3): 375-379.
- Galani, N.N.; M.H.Lomte and S.D.Chaudhari (1991). Juice yield and brix as affected by genotype, plant density and N levels in high energy sorghum. Bharatiya Sugar. 4, 23-24. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 7685-32-6UD: 980322)
- Gangwar, K.S. and Y.Singh (1992). Integrated nutrient management in fodder sorghum (*Sorghum bicolor*)-gram (*Cicer arietinum*) cropping sequence under dryland conditions. Indian J. of Agron. 37 (1): 107-109; 1ref.
- Gaskin, M.H.; M.Carcia; T.M.Tein and D.H.Hubbel (1977). N₂ fixation and growth substances production by *Aspirillum lipoferum* and their effects on plant growth. Plant Physiology, 59:125.

- Gautam,V.S.; B.B.Kushwaha; S.Nayak (2003).** Studies on response of sorghum to nitrogen levels and biofertilizers- advances in plant Sci., 16 (1): 337-338. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 0970-3586UD: 3122410).
- Gholve,S.G.; V.Y.Sankpal and S.B.Jadhav (1993).** Efficiency of biofertilizers under varying levels of nitrogen on nitrogen economy, growth and yield of adsali sugarcane. Indian Sugar 43 (5): 323-327.
- Gill,M.P.S.; N.S.Dhillon and G.Dev (1995).** Fertilizer phosphorus requirements of pearl-millet and sorghum fodders as affected by native fertility of an arid brown soil. Indian J. of Agric. Res. 29 (1-2) 83-88.
- Golden,L.E. and I.B.Abdol (1977).** Effects of N and K fertilizers and soil type on yield components and nutrient uptake of 4 sugarcane varieties. La. Agric. Exp. Sta., Bull., 700: 60. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 6453-42-8UD: 95540)
- Goudreddy,B.S.; V.S.Patil; G.D.Radder and B.M.Chittapur (1989).** Response of rabi sorghum to nitrogen, farmyard manure and *Azotobacter* under irrigated conditions. J. of Maharashtra Agric. Univ. 14 (3): 266-268.
- Greep,S.; T.Muthukumar; K.Udaiyan and V.N.Bai (1997).** Response of siratro (*Macroptilium atropurpureum* Urb-Fabaceae) to vesicular arbuscular mycorrhizal fungi and *Rhizobium* sp. in sterilized soil. Pertanika J.of Tropical Agric. Sci. 20 (1): 19-29.
- Grespo,G. and J.L.Forte (1999).** Nitrogen dosages on yield and chemical composition of *Sorghum bicolor* var CC-72 in

- the dry season with irrigation. Cuban J. of Agric. Sci. 33 (2): 217-221.
- Gupta, B.S. and M.C. Agarwal (1976).** Effect of potassium on sugarcane yield on alluvial loamy soil. J. of Indian Soc. Soil Sci., 10: 274-277.
- Hariprakash Rao, M. (1978).** Effect of different levels of nitrogen, phosphorus and potassium on the growth and yield of hybrid sorghum CSH-1. Mysore J. of Agric. Sci. 12 (4): 566-568.
- Hassouna, M.G.; M.A. Madkour and T.A. Mahmoud (1990).** Rhizobacteria on *Sorghum spp.* cultivated on poor lands on the north- western coast of Egypt. The 2nd Interna. Workshop on Plant Growth- Promoting Rhizobacteria, Oct. 14-19, 1990, Interlaken, Switzerland.
- Hernandez, Y.; E. Sistachs and A. Prieto (1994).** Response of forage sorghum (*Sorghum bicolor* cv. Sudanense) to *Azospirillum spp.* inoculation. Cuban. J. of Agric. Sci., 28 (2): 237-242.
- Hirpara, D.S.; J.C. Patel; K.N. Akbari and G.S. Sutaria (1999).** Response of sorghum to nitrogen and phosphorus fertilization on medium black soils. Indian J. of Agric. Res. 33 (1): 57-61.
- Hussein, M.A.H. (1992).** Varietal adaptation of *sorghum* sp. in the arid lands of the northern coast of Egypt. PH.D. Thesis, Fac. Agric., Alex. Univ., Egypt.
- Ihtisham, U.L. Haq; A. Jan ; M. Shafi and J. Bakht (2000).** Fodder yield of sorghum as influenced by different nitrogen levels and time of irrigation. Sarhad J. of Agric. 16 (3): 253-258.

- Ingawal,H.Y.; U.D.Chavan and N.D.Patil (1992).** Effect of balanced NPK fertilizers on yield and juice quality of sugarcane .J. Maharashtra Agric. Univ. 17(1): 6-9.(C.F.Soils and Fert., 1993, 56 (7): 7472).
- Ingram,K.T. and H.W.Hilton (1986).** Nitrogen- Potassium fertilization and soil moisture effects on growth and development of drip- irrigated sugarcane. Crop Sci., 26 (5): 1034-1039.
- Ismail,A.M.A.(1991).** Effect of some herbicides on growth and yield of sugarcane. M.Sc.Thesis, Fac. of Agric., Al-Azhar Univ., Egypt.
- Ismail,A.M.A. and A.H.Ali (1986).** Effect of nitrogen rates and time of application on some morphological characters and yield of grain sorghum (*Sorghum bicolor* L.Moench) Arab Gull J. of Sci. Res. 4 (2): 449-459.
- Jadhav,D.K.; C.P.Ghonsikar and R.K.Tattu (1983).** Phosphate use efficiency in grain sorghum cultivars. Madras, Agric. J. 70 (60): 388-392.
- Jisha,M.S. and A.R.Alagawadi (1996).** Nutrient uptake and yield of sorghum (*Sorghum bicolor* L.Moench) inoculated with phosphate solubilizing bacteria and cellulolytic fungus in a cotton stalk amended Vertisol. Microbiological Res.151(2): 213-217.
- John,M.S. and B.N.Bradford (1985).** Biomass and sugar yield response of sweet sorghum to lime and fertilizer. Agric. J.77 (3): 471-475.
- Kabesh,M.O.; T.G.Behairy and M.S.M.Saber (1989).** Utilization of biofertilizers in field crop production. 7-

Effect of the element sulphur application in the presence and absence of two biofertilizers on growth and yield of maize. Egypt J. Agron., 14 (1-2): 95-102.

Kachapur, M.D. and R. Hunje (1996). Nutrition management in sweet sorghum. Karnataka J. Agric. Sci. 9 (1): 151-154.

Kamath, K.S.; S.A. Hosmani; V.R. Koraddi and A.K. Guggari (1991). Influence of water hyacinth and fertilizer levels on growth and yield of hybrid sorghum (*Sorghum bicolor* L. Moench) yield components, yield, fertilizer substitution and economics. Karnataka J. Agric. Sci. 4 (1-2): 6-10.

Kapulnik, Y. ; J. Kigel ; Y. Okon ; I. Nur and Y. Henis (1981). Effects of *Azospirillum* inoculation on some growth parameters and N content of wheat, sorghum and panicum. Plant and Soil, 61: 65-70.

Kargbo, C.S. and P.K. Kwarye (1991). Effect of N, P and K fertilization on sorghum (*Sorghum vulgare*) grown in the smiarid savanna zone of north-eastern Nigeria, Madras Agric., (1989) 76 (7): 380-390. (C.F. Field Crop Abst. 44, No.3).

Katayama, K. ; O. Ito ; J.J. Gyamfi, Adu ; T.P. Rao ; E.V. Dacanay and T. Yoneyama (1999). Effect of NPK fertilizer combination on yield and nitrogen balance in sorghum or pigeonpea on a Vertisol in the semi- arid tropics. Soil Sci. and Plant Nutrition , 45 (1): 143-150.

Khaddar, V.K.; D. Singh and N. Ray (1985). Effect of fertilizer combinations of nutritive value and yield of fodder sorghum (J.69). JNKVV-Res. J., 17(1-2): 97-102. (C.F. The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 6170-67-4UD: 82315).

- Khalid,M.; A.Ijaz and A.Muhammad (2003).** Effect of nitrogen and phosphorus on the fodder yield and quality of two sorghum cultivars (*Sorghum bicolor* L.). International J. of Agric. and Biology, 5 (1): 61-63. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 1560-8530UD: 3072100).
- Kolekar,P.T.; N.K.Umrani and D.V.Indi (1998).** Effect of moisture conservation techniques and nitrogen on growth and yield of rainfed rabi sorghum. J. Maharashtra Agric. Univ. 23 (1): 26-28.
- Korndorfer,G.H. (1990).** Potassium and sugarcane quality. Informancoes Agronomicas 49, 1-3. (C.F.Soils and Fert. Abst., 53, No.11).
- Krishan,S. and S.Bakhtawar (1986).** Sweet sorghum . An anciliary sugar crop. Indian Farming 26 (4): 7-8 (C.F.Sorghum and Millets Abst. 12 (9): 722).
- Kumar,C. ; M.M.Agrawal and B.R.Gupta (1998).** *Azospirillum* and its potential as biofertilizer. Fertiliser News 43: 11,47,49-50.
- Kumar,R. and R.B.Lal (1986).** A study on the effect of *Azotobacter* culture and phosphorus levels on grain yield and test weight of sorghum (*Sorghum bicolor* (L.)Moench) var.CSH-5. Annals Agric. Sci.Ain-Shams Univ.31(2): 1227-1232.
- Kumar,R.N. ; M.Lawrence and S.Mohammad (1998).** Technological manipulations in sowing method and nitrogen application rates to parental lines in seed

production of CSH-14 sorghum hybrid .Crop Res. Hisar. 16 (2): 150-155.

Kumar,V.; S.S.Punia; K.Lakshminarayana and N.Narula (1999). Effect of phosphate solubilizing analogue resistant mutants of *Azotobacter chroococcum* on sorghum. Indian J. of Agric.Sci. 1999, 69 (3): 198-200.

Kumaraswamy,K. and S.Rajasekaran (1994). Response of sugarcane crop to nitrogen, phosphorus and biofertilizers. Cooperative, Sugar.26 (2): 101-103.

Laheurte,F. and J.Berthelin (1988). Effect of a phosphate solubilizing bacteria on growth and root exudation over four levels of laible phosphorus. Plant and Soil, 105: 11-17.

Lakshmikantham,M. (1974). Application of phosphate and potash and their effect on juice quality of cane crops following heavy N fertilization. Proc. ISSCT, 15: 633-636.

Lakshmikantham,M. (1983). Technology in Sugarcane Growing . 2 nd Ed., Oxford & IBH Publishing Co., New Delhi.

Lal,B.S. and M.Shaik (2000). Nutrient enrichment effect of parental lines on crop growth, yield components and yield of seed parent AKMS- 14A for CSH-14 sorghum hybrid seed production. Crop. Res. Hisar , 20 (1): 25-28.

Lee,M.H.; K.B.Park and J.T.Kim (1991). Effect of fertilizer levels on the green feed yield of sweet sorghum (*Sorghum bicolor* (L.) Moench var. saccharatum korn).Res. Reports of the Rural Development

Administration Upland and Industrial Crops. 33 (3): 80-86.

Leible, L. and G. Kahnt (1991). Investigations into the effect of location, sowing rate, N application, cultivars and harvesting date on yield and composition of sweet sorghum. *J. of Agron. and Crop Sci.* 166 (1): 8-18.

Lestari, L. (1993). Estimation of sugar production through balanced diagnoses of leaf and juice phosphate or leaf iron and manganese concentrations in sugarcane. *Bull. Pusat Penelitian Perkebunan Gula Indonesia*, 139: 1-24. (C.F. Soils and Fert. 1994, 57(4): 3142).

Li, S. L. (1985). Combined application of different fertilizers to sugarcane. *J. Soil Sci.*, 16 (4): 156-158.

Li, S. W. (1993). Recent fertilizer application in Taiwan sugarcane field. *Taiwan Sugar*, 40 (1): 8-13.

Lin, W.; Y. Okon and R. W. F. Hardy (1983). Enhanced mineral uptake by *Zea mays* and *Sorghum bicolor* roots inoculated with *Azospirillum brasilense*. *Applied and Environmental Microbiology*. 45 (6): 1775-1779.

Linscott, D. L.; R. L. Fox and R. C. Lipps (1962). Corn root distribution and moisture extraction in relation to nitrogen fertilization and soil properties. *Agron. J.* 54: 185-189.

Macalintal, E. M. and G. V. Urgel (1992). Effect of *Azospirillum* – inoculated seed pieces and rate of nitrogen application on yields of sugarcane. *Philippine- Sugar- Quarterly (Philippines)*, Jan- June, 3 (1-2): 8-10 (C.F. The Commonwealth Agric., Bureaux Abst., Dialog File R.N: 7727-37-9 UD: 960410).

- Machado, J.R.; O.Brinholi ; J.Nakagawa ; C.A.Rosolem and G.E.Serra (1985).** Effect of interrow spacing and NPK fertilizer application on sweet sorghum (*Sorghum bicolor* (L.) Moench) in a red latosol. Cientifica, 13 (1-2): 7-17.
- Madibbo, G.M. (1998).** Sorghum response to phosphate rock as affected by placement, application rate and soil type. Sudan. J. of Agric. Res. 1 (1): 17-19.
- Mahakulkar, B.V. ; S.S.Wanjari ; S.B.Atale ; D.B.Bhasharkar and A.D.Ghirnikar (1996).** Response of fodder sorghum to varying levels of nitrogen under Akola conditions. Agric.Sci.Digest- Karnal. 16 (3): 219-220.
- Mahmoud, T.A. (1989).** Studies on the N_2 - fixation process in some crops. Ph.D. Thesis. Fac. Agric. Alex.Univ.
- Malik, N.A.; S.Afghan; I.Ahmed and R.A.Mahmood (1993).** Response of sugarcane cultivar to different doses of NPK fertilizer in Somalia. Pakistan Sugar J., 7 (2): 7-9.
- Manrique, E.R.; A.R.Rosales and W.O.Martinez (1983).** Sugarcane response to NPK. 1-Sugarcane intercropped with maize and beans. Revista-Instituto Colombiano Agropecuario, 18 (3): 167-176 (C.F. Hort. Abst., 1985, 55: 9963).
- Marriel, I.E.; C.A.Vasconcellos; E.A.Konzen and J.M.G.Ferraz (1986).** Growth, chemical composition and yield of maize grown on Cerrados soil with biofertilizer. Resumos,- congresso- Nacional- de- Milho-e- Sorgo. 1986. No.16, 16. (C.F.The Commnweelth

Agric., Bureaux Abst. Dialog File R.N: 1124-27-3UD: 982415).

- Martinez,W.O.; A.R.Rosales and E.R.Manrique (1983).**
Response of sugarcane to NPK. 2- Sugarcane as a monocrop . Revista-Instituto Colombiano Agropecuario, (18): 533-541. (C.F. Hort. Abst., 1985, 55: 3075).
- Mastiholi,A.B. and C.J.Itnal (1997).** Response of rabi sorghum (*Sorghum bicolor* L.Moench) to application of biofertilizers under dryland conditions. Karnataka J. of Agric. Sci., 1997, 10 (2): 302-306.
- Mathur,B.K. (1972).** Response of NPK fertilizers on sugarcane crop. Indian Sugar, 21: 809-815.
- Michael Raj,S. ; T.R.Srinivasan and K.Mohan (1984).**
Sugarcane nutrition through biofertilizers. Indian J. Pl. Nutrition, 3: 183-189.
- Mishustin,E.N. and A.N.Navamora. (1962).** Bacterial fertilizers, their effectiveness and mode of action. Mikrobiologiya, 31: 543-555.
- Mitchell,R.L. (1979).** "Crop Growth and Culture" 6th Printing. The Iowa State Univ. Press, Ames, Iowa, USA.
- Mohamed,A.B.; A.M.Badreldin and N.O.Mohamed (1998).**
Response of some sorghum hybrids and their parents to nitrogen fertilization. Sudan J. Agric. Res., 1(1): 9-12.
- Monib,M. ; N.A.Hegazi ; M.Eid and E.Shokr (1982).** Yield increase of grain sorghum (*Sorghum vulgare*) after inoculation with nitrogen fixing *Azospirillum*. The first OAU/ STRC Internat. African. Conf. on Biofertilizers, 22-26 Mar., 1982.

- Montgomery, E.G. (1911).** Correlation studies of corn. Nebraska Agric. Exp. Sta. 24th Ann. Report. (C.F. Agron. J. 53: 187-188).
- More, S.D. and K.B. Birajdar (1986).** Studies on blended urea for nitrogen economy in grain sorghum. J. Agron. And Crop Sci. 157(2): 92-98.
- Morgenstern, E. and Y. Okon (1987).** The effect of *Azospirillum brasilense* and auxin on root morphology in seedlings of *Sorghum bicolor* × *Sorghum sudanense*. Arid Soil Res. and Rehabilitation, 1987, 1(2): 115-127.
- Mote, U.N. and D.S. Ajri (1985).** Effect of different seed treatments on germination, shootfly incidence and yield of rabi sorghum hybrid. Current Res. Reporter, 1(2): 175-176.
- Mote, U.N. ; D.R. Bapat and J.R. Kadam (1986).** Effect of *Azotobacter* and carbofuran seed treatment on shootfly incidence and yield of winter sorghum. Indian. J. Agric. Sci., 56 (6): 457-462.
- Mote, U.N. and D.G. Ramshe (1987).** Effect of fertilizers and plant population on the incidence of shootfly (*Atherigona soccata* Rondani) on some sorghum cultivars. Indian. J. Entomology. 49 (4): 490-495, 1989.
- Moursi, M.A. and T.B. Fayed (1979).** Photosynthetic Efficiency of Field Crops. Anglo Egyptian Bookshop. Cairo, Egypt.
- Muddemmanavar, S.S. ; S.K. Gumaste ; S.S. Angadi and V.S. Kubsad (1990).** Studies on fodder yielding and

- ratooning abilities of sorghum varieties as influenced by fertilizer levels. *Farming Systems*. 6 (1-2): 8-13.
- Muthukumarasamy,R.; G.Revathi and A.R.Solayappan (1994).** Biofertilizers a supplement or substitute for chemical nitrogen for sugarcane crop. *Cooperative Sugar* 25(7-8): 287-290.
- Myers,R.J.K. (1978).** Nitrogen and phosphorus nutrition of dryland grain sorghum at Katherine, Northern Territory. 1- Effect of rate of nitrogen fertilizer. *Australian J. of Exper. Agric. and Animal Husbandry* 18 (93): 554-563.
- Nagre,K.T.; R.P.Kokate and P.V.Thorve (1990).** Effect of nitrogen and *Azotobacter* on dry matter production, concentration and uptake of nitrogen by sorghum. *P.K.V. Res. J.* 14 (2): 188-190. (C.F.The Commnweelth Agric., Bureaux Abst. Dialog File R.N:3644-35-8 UD :885673)
- Nain,L.R.; S.Solomon and S.L.Gulati (1996).** Field response of sweet sorghum (*Sorghum bicolor*) to carrier based inoculants (*Azotobacter*, *Azospirillum*) and fermented residue. *Crop Res. Hisar*. 12 (3): 267-273.
- Nanda,S.S; M.A.Alim; G.H.Santra and B.Dash (2001).** Biofertilizer use in economizing nitrogen in fodder sorghum (*Sorghum bicolor*). *Environment and Ecology*,19 (1): 5-8.
- Naphade,P.S. and D.B.Patil (1998).** Response of sorghum grown on different fertility soils to applied zinc. *Agric. Sci. Digest Karnal*. 18 (4): 231-233.
- Narasiah,D.B.; M.N.Sadaphal and B.C.Wright (1972).** Effect of nitrogen fertilization and plant population on hybrid sorghum CSH-1. *Indian J.of Agron.* 17(3): 128-132.

- Narasimhan,R.L. and K.Ramalingaswamy (1991).** Rate of potassium in realising optimum cane and sugar yields of some sugarcane varieties. Regional Agric. Res.Sta. Anakopull- Andhra Pradesh, India. SISSTA Sugar J., 17 (2-3): 25-30. (C.F.Field Abst.,46 (8): 5304, 1993).
- Narayanan,K. and Y.B.Morachan (1974).**Response of sugarcane to phosphorus and potash under low and high level nitrogen fertilization. Madras Agric. J., 61 (9): 561-568.
- Nassar,A.M. (1996).** Yield and quality response of some sugarcane cultivars to potassium nutrition and date of harvest. Ph.D. Thesis, Fac. Agric., Cairo Univ., Egypt.
- Navale,A.M.; D.B.Shinde; B.R.Vaidya and S.B.Jadhav (1995).** Effect of *Azotobacter* and *Azospirillum* inoculation under graded levels of nitrogen on growth and yield of sugarcane (*Saccharum officinarum*). Indian. J. Agron. 40 (4): 665-669.
- Nayak,S.; V.S.Gautam and B.B.Kushwaha (2001).** Response of sorghum to *Azospirillum* with and without FYM at different levels of nitrogen. J.of Maharashtra Agric.,26 (3): 341-343,2002 .
- Nazir,M.S.; H.M.Shafiq; M.Saeed and A.Jabbar (1997).** Integrated nitrogen management with planting geometry for multicut hybrid sorghum. Pakistan. J. of Agric. Sci., 34 (1-4): 65-69.
- Negrila,M. and E.Negrila (1986).** Action of nitrogen and phosphorus fertilizers on yield of some grain sorghum hybrids in the southern part of the country. Analele-Institutului- de- Cercetari- Pentru- Cereale-si- Plante-Tehnice,-Fundulea.,53:199-209.(C.F.The Commnwelth

- Neyra, C.A. and J. Dobereiner (1977).** Nitrogen fixation in grasses. *Adv. Agron.*, 29, PP. 1-38.
- Ogunlela, V.B. (1991).** Dry matter production by three sorghum cultivars under different nitrogen rates and plant densities. *Sorghum Newsletter*, 32, 67. (C.F. Field Crop Abst., 46 (15): 2700, 1993).
- Okon, Y.; Y. Kapulnik and S. Sarig (1988).** Field inoculation studies with *Azospirillum* in Israel. Biological nitrogen fixation recent developments Ed. by N.S. Subba Rao, New York, U.S.A., PP. 175-195.
- Oleksenko, Yu.F. ; S.V. Krasenkov ; S.I. Zhuchenko and Yu.I. Usenko (1988).** Yield of grain sorghum in relation to the composition, rates and proportions of fertilizers. *Agrokimiya*, 7: 53-56.
- Pacovsky, R.S. (1988).** Influence of inoculation with *Azospirillum brasilense* and *Glomus fasciculatum* on sorghum nutrition. *Plant and Soil* 110: 283-287.
- Pacovsky, R.S.; E.A. Paul and G.J. Bethlenfalvay (1985).** Nutrition of sorghum plants fertilized with nitrogen or inoculated with *Azospirillum brasilense*. *Plant and Soil*, 85 (1): 145-148.
- Pal, U.R.; K. Murari and H.S. Malik (1984).** Yield response of sorghum cultivars to inorganic nitrogen fertilizer. *J. Agric. Sci., UK*. 102 (1): 7-10.
- Pal, M.S.; H.P.S. Malik and O.P. Singh (1995).** Effect of fertility levels on yield and quality of sorghum (*Sorghum*

bicolor L.Moench) genotypes under rainfed conditions. Agric. Sci. Digest- Karnal., 15 (3): 135-138.

Pal, M.S.; O.P. Singh and H.P.S. Malik (1996). Nutrient uptake pattern and quality of sorghum (*Sorghum bicolor* L.Moench) genotypes as influenced by fertility levels under rainfed conditions. Tropical Agric., 73 (1): 6-9.

Panady, A. and S. Kumar (1989). Potential of *Azotobacter* and *Azospirillum* as biofertilizers for Upland Agriculture. J.Sci. & Indust. Res., 48 (3): 134-144.

Pannu, B.S. ; Y.P. Dang ; K.S. Verma and S.S. Verma (1985). Effect of phosphorus and potassium on the yield and quality of sugarcane. Indian Sugar, 35 (4): 263-265.

Panwar, J.D.S. ; M. Pandey and Y.P. Abrol. (1990). Effect of *Azospirillum brasilense* on photosynthesis, transpiration and yield of wheat under low fertility conditions. Indian J. of Plant Physiol., 33 (3): 185-189.

Patel, J.R. (1998). Effects of nitrogen and cutting management on forage sorghum. J. of Maharashtra Agric. Univ. 1999, 23 (3): 319-320.

Patel, P.V.; P.M. Mehta; M.L. Patel and M.G. Patel (1985). Efficient utilization of potassic fertilizer by sorghum on a Vertisol. J. of Potassium Res., 1 (2): 129-132.

Patel, L.K.; J.C. Patel; N.J. Chaniara and N.M. Baldha (1990). Effect of irrigation, nitrogen and phosphorus on the productivity of rabi ratoon sorghum. Indian J. of Agron. 35 (3): 266-269.

Patel, R.H.; N.M. Patel ; Z.G. Patel and L.K. Patel (1993-b). Role of bio- fertilizers in productivity of finger millet

(*Eleusine coracana*) . Indian. J. of Agron., 38 (1): 119-120.

Patel,P.C. ; J.R.Patel and A.C.Sadhu (1992). Response of forage sorghum (*Sorghum bicolor*) to biofertilizer and nitrogen levels. Indian. J. of Agron. 37(3): 466-469.

Patel,J.R.; A.C.Sadhu; P.C. Patel and K.R.Thaker (1993-a). Influence of bio- fertilizers and nitrogen levels on forage sorghum. Gujarat Agric. Univ. Res. J. 19 (1): 10-14.

Patil,F.B.; D.A.Gadeker and A.G.Bhatte (1993). Response of forage sorghum varieties to seed rates and nitrogen. J. of maharashtra Agric. Univ., 17(1): 150-151. (C.F.Field Crop Abst. 45 (12),1993).

Patil,A.J.; B.G.Gaikwad; S.S.Sonawane and J.D.Patil (1996). Response of rabi sorghum to application of phosphorus under dryland conditions. J. of Maharashtra Agric. Univ., 21(1): 67-70.

Patil,P.G. and D.G.Hapse (1981). Nitrogen economy in sugarcane (Adsali) by use of *Azotobacter*. Maharashtra Sugar, 6 (8): 29-35.

Patil,S.L. and M.N.Sheelavantar (2000). Effect of moisture conservation practices, organic sources and nitrogen levels on yield, water use and root development of rabi sorghum (*Sorghum bicolor* L.Moench) in the vertisols of semi- arid tropics. Annals of Agric. Res., 21 (1): 32-36.

Patil,J.P. and A.K.Shingte (1992). Effect of application of phosphorus and potassium to sugarcane crops and its effect on quality of Jaggery. Part 1. Indian Sugar 41(2): 885-892.

- Pawar,H.K. and B.N.Narkhede (1981).** Response of sorghum (*Sorghum bicolor* L.Moench) hybrid CSH-1 and variety M.35-1 to different levels of NP and K in rabi under irrigation (IV) content and up take of irrigation, J.of Maharashtra Agric. Univ., 6 (2): 117-123.
- Pawar,K.B. ; H.B.Kalbhor ; B.K.Konde and P.L.Patil (1996).** A study on combined effects of *Azotobacter* and *Azospirillum* with nitrogen on yield of sorghum . J. of Maharashtra Agric. Univ., 21(3): 403-406.
- Pereira,J.A.R. (1990).** Inoculation of Maize and Sorghum with nitrogen fixing bacteria in the field. the 18th National Maize and Sorghum Conf., during July & Aug., 1990.
- Phalton,M. (1984).** Sorghum Nimbkar. Agricultural Institute., India Nimbkar Agric. Res. Inst. English annual report updates : 108-111.
- Pillai,R.N. and Y.Nookaraju (1997).** Effect of graded levels of applied potassium on dry matter production and nutrient uptake in sorghum. J. of Potassium Res., 13 (3-4): 239-244.
- Plews,R.W. (1970).** Analytical methods used in sugar refining. Elsevier Pub. Co., New York, 5: 23.
- Ponnuswamy,K.; P. Subbian; P.Santhi and N.Sankaran (2002).** Integrated nutrient management for rainfed sorghum. Crop Res. Hisar.,23 (2): 243-246.
- Poonia,T.C. ; A.L.Mali and P.Singh (1999).** Growth and yield attributes of sorghum (*Sorghum bicolor* L.) as influenced by nitrogen and plant density. Annals of Agric. Bio. Res., 4 (1): 21-23.

- Prasad,A. and R.Singh (1999).** Effect of leucaena green leaf manuring on performance of sorghum + pigeonpea intercropping in south eastern Rajasthan, India . Indian J.of soil conser. 27(1): 36-40.
- Premono,M.E. ; I.Anas ; G.Soepardi ; R.S.Tladioetomo ; S.Saono and W.H.Sisworo (1995).** Improvement of P uptake and growth of sugarcane by phosphate solubilizing microorganisms. Proc. ISSCT, 22: 268-274.
- Rabindra,S. ; S.N.Swamygowda and T.G.Devi (1993).** Long term effect of fertilizers on sugarcane . Current Res.Univ. Agric. Sci.(Bangalore), 22 (6-8): 86-89.(C.F.Soils and Fert.1994, 57 (7):6144).
- Rai,R.K ; A.K.Vyas and M.N.Sinha (1988).** Relative utilization of soil and fertilizer phosphorus by maize, sorghum and pearl millet as fodder J. of Nuclear Agric.and Biology 17: (2): 115-116.
- Rajput,F.K. ; A.S.Arain ; M.J.Rajput and K.B.Khawajy (1983).** Effect of row spacing and fertilizer levels on the yield and growth of sorghum. Pakistan J.Agric.Res.,4 (3): 166-170.
- Ralston,D.B. and Mc.Bride (1976).** Interaction of mineral phosphate dissolving microbes with red pine seedlings. Plant and Soil, 45: 493-507.
- Ramas,A. ; J.M.Barea and V.A.Callao (1972).** A phosphate dissolving and nitrogen fixing microorganisms and its possible influence on soil fertility. Agrochemica, 16 (4-5): 345-350. (C.F.Soils and Fert., 1972, 35 (6): 5010).

- Ramaswamy,P.P. ; K.R.Kumerasan ; P.Savithri ; R.Devarajan ; U.S.Ramulu and S.Sankaran (1992).** Evaluation of Mussoorie rock phosphate and pyrite as sources of phosphorus and iron for sugarcane. Madras Agric. J., 79 (9): 488-491.
- Ramesh,V. and S.Varghese (2003).** Effect of fertilizer levels of N, P and K on the yield and juice quality of sugarcane. Indian-Sugar, 53 (3): 175-177. (C.F.The Commnwelth Agric., Bureaux Abst., Dialog File R.N: 0019-6428UD: 3198539)
- Rani Perumal ; P.Duraisamy ; C.Jayaraman and S.Mani (1989).** Response of sugarcane to potassium fertilization in major soils of Tamil Nadu. Madras Agric. J.,76 (6): 319-323. (C.F.Soils and Fert., 54, No.9).
- Rao,K.N.; T.S.Partha and G.S.Rao (1970).** "Outlines of Plant Physiology" 2nd Ed., 159-160.S.Chand & Co. India.
- Rasal,P.H. and P.L.Paril (1993).** Effects of *Azotobacter* and *Azospirillum* inoculation on germination of hybrid sorghum. Madras Agric. J., 80 (3): 171-172.
- Reiad,M.S. ; M.S.El-Hakeem ; M.A.Hammada and S.O.M.Abd-Alla (1995).** Response of fodder sorghum growth to nitrogen and organic manure fertilizers under Siwa Oasis conditions. Annals of Agric.Sci. Moshtohor., 33 (2): 637-646.
- Ricaud,R. and A.Arceneaux (1994).** Soil fertility research in sugarcane in 1994. La. Agric. Exp. Sta., Annl. Prog. Rept, 170-178.
- Rodriguez,I.; M.E.Sanchuz and A.H.Santiesteban (1982).** Study on the NPK fertilization of sugarcane on the north

coast of Villa Clara. Centro Azucar, 9 (1): 35-53.
(C.F.Sugarcane Agron., 2).

Rosolem,C.A.; J.R.Machado; O.D.Coleta and D.A.S.Marcondes (1983). Effect of lime and potassium fertilizer on sweet sorghum cultivation on a dark- red sandy latosol. Pesquisa Agropecuaria- Brasileira, 18 (4): 351-356. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 7836-56-4UD :81907)

Roy,R.N. and B.C.Wright (1973). Effect of fertilizer application morphology and weight components of the panicle of *Sorghum bicolor* (L.) Moench. Indian J. of Agric. Sci.,43 (4): 419-422.

Saheb,S.D.; H.K.Singh and C.B.Singh (1997). Effect of plant population and nitrogen on biomass and juice yield of sweet sorghum (*Sorghum bicolor*) . Indian J. of Agron., 42 (4): 634-636.

Sahrawat,K.L.; M.H.Rahman and J.K.Rao (1999). Leaf phosphorus and sorghum yield under rainfed cropping of a Vertisol. Nutrient Cycling in Agroecosystems., 54 (1): 93-97. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N: 6582-43-8UD :52302)

Sahrawat,K.L.; J.T.Rego; J.R.Burford; M.H.Rahman; J.K.Rao and A.Adam (1995). Response of sorghum to fertilizer phosphorus and its residual value in a Vertisol. Fertilizer Res., 41(1): 41-47.

Sahrawat,K.L.; J.T.Rego ; M.H.Rahman and J.K.Rao (1998). Phosphorus response effects on macro- and micronutrient removal by sorghum under rainfed cropping on a Vertisol. J. of the Indian Soc. of Soil Sci., 46 (1): 58-60.

- Sandara,B. (1985).** Effect of trash mulshing urea spray and late application of potassium on sugarcane grown under limite irrigation. *Indian Sugar*, 35 (3): 211-219.
- Sarig,S; A.Blum and Y.Okon (1988).** Improvement of the water status and yield of field grown grain sorghum (*Sorghum bicolor*) by inoculation with *Azospirillum brasilense*.*J. of Agric.Sci.Uk.*, 110 (2): 271-277.
- Sarig,S; Y.Kapulnik; I.Nur and Y.Okon (1984).** Response of non- irrigated *Sorghum bicolor* to *Azospirillum* inoculation. *Experimental Agric.*, 20 (1): 59-66.
- Sarig,S; Y.Okon and A.Blum (1990).** Promotion of leaf area development and yield in *Sorghum bicolor* inoculated with *Azospirillum brasilense*. *Symbiosis Rehovot.*, 9 (1-3): 235-245.
- Sarig,S; Y.Okon and A.Blum (1992).** Effect of *Azospirillum brasilense* inoculation on growth dynamics and hydraulic conductivity of *Sorghum bicolor* roots. *J. of Plant Nutri.*, 15 (6-7): 805-819.
- Sarig,S; Y.Okon; A.Blum; H.J.Evans; P.J.Bottomley and W.E.Newton (1985).** Improvement of growth and yield of non- irrigated *Sorghum bicolor* to *Azospirillum* inoculation. *Nitrogen- fixation Res. Progress.* 1985, 707.
- Sarma,P.S. and T.S.Kumari (1996).** Effect of water stress, varieties and potassium on sorghum in Vertisols. *J.of Potassium Res.*, 12 (1): 96-99.

- Sarma,P.S. and G.A.Subramanian (1991).** Response of sorghum (*Sorghum bicolor* (L.) Moench) to applied potassium under rainfed conditions.J. of potassium Res.7(1): 67-70 (C.F.Field Crop Abst. 44,No.11).
- Satjipanon,C.; J.Bunyaviroj and K.Srisapakit (1991).** Hydrocyanic acid content of sugar drips *Sorghum bicolor* as affected by nitrogen rates and growth stages. Kaen- Kaset- Hnon- Koen- Agric. J. 19 (5): 265-273. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog File R.N:4087 -73-2UD :90421)
- Savalgi,V.P. and V.Savalgi (1991).** Effects of *Azospirillum brasilense* and earthworm cast as seed treatment on sorghum. J. of Maharashtra Agric. Univ.,16 (1): 107-108.
- Schank,S.C. and R.L.Smith (1984).** Status and evaluation of associative grass- Bacteria N₂- Fixing Systems in Florida. Soil Crop Sci. Soc. Fla., 43: 120-123.
- Sharma,R.A.; N.S.Bhadoria and O.R.Mishra (1997).** Yield, dry matter production and nutrient uptake by hybrid sorghum as influenced by split application of nutrients. Crop Res. Hisar., 13 (1): 211-212.
- Shehata,Mona,M. (1981).** Effect of rate and time of potassium application on cane and sugar yield. M.Sc. Thesis, Fac. Agric., Cairo Univ., Egypt.
- Sheoran,R.S. ; B.D.Yadav and S.Ram (1991).** Effect of biofertilizer (mycorrhiza) and nitrogen on forage yield and quality of sorghum and bajra. International J. of Tropical Agric.9 (4): 306-308.

- Shivalingam,C.; M.S.Reddy and P.Krishnamurthy (1985).**
Effect of nitrogen, phosphorus and potassium levels on juice constituents of sugarcane under different soil fertility levels. Maharashtra Sugar, 10 (12): 41-48.
- Singh,O.S.D. (1974).** Sprouting efficiency of cane varieties under Autumn conditions. Indian Sugar.,23 (11): 889-890 (C.F.PI. Br Abst., 46 (2): 1619, 1976).
- Singh,A. and S.S.Bains (1972).** Response of sorghum (CSH-1 and Swarna) to varying levels of nitrogen and plant population. Indian J. Agron. 17(1): 12-16.
- Singh,P. and S.D.Choubey (1972).** Effect of varying levels of nitrogen on the yield and yield attributes of some sorghum varieties. Indian J. Agric. Sci. 42 (4): 337-341.
- Singh,K.D.N.; B.K.Jha; G.K.Mishra and A.Samad (1992).**
Effect of potassium on yield and quality of sugarcane on calciorthent under drought condition. J. Indian Soc. Soil Sci.,40 (1): 105-110.
- Singh,O.P.; M.S.Pal and H.P.S.Malik (1996).** Performance of grain sorghum *Sorghum bicolor* genotypes under rainfed conditions at varying fertility levels. Indian J. of Agron., 41(2): 256-260.
- Singh,O.P.; G.Singh; B.B.Singh and M.S.Sharma (1995).**
Effect of pressmud and fertilizer on yield and quality of plant and ratoon sugarcane in flood- prone areas. Indian J. Agron., 40 (3): 469-473.
- Singh,G.; O.P.Singh; R.S.Singh and R.A.Yadav (1990).**
Response of sugarcane to planting seasons and fertility levels. Indian J. Agron., 35 (3): 315-316.

- Singh,G.; O.P.Singh; R.S.Singh; R.A.Yadav and B.B.Singh (1991).** Effect of press mud and fertilizer application on yield and quality of cane in flood affected condition. *Bharatiya Sugar*, 16 (6): 27-30. (C.F. Soils and Fert., 1992, 55 (3): 3600)
- Silva,H.; H.V.Amorim; C.A.Rosolem; A.Q.da,Silva and E.Malavolta (1986).** Nutrient contents of leaves and sap of sweet sorghum (*Sorghum bicolor* L. Moench) as a function of ten rates of applied NPK fertilizer. *Resumos-Congresso- Nacional- de- Milho- e- Sorgo- 1986*, No.16, 99. (C.F.The Commnweelth Agric., Bureaux Abst., Dialog file R.N: 4831-22-6UD:5628)
- Silva,H.; H.V.Amorim; C.A.Rosolem; A.Q-da,Silva; E.Malavolta and A.Q.Da- Silva (1988).** Nutrient contents of leaves and sap of sweet sorghum (*Sorghum bicolor* (L.) Moench) as a function of ten rates of NPK fertilizer. *Anais do 16 Congresso Nacional de Milho-e-Sorgo*, 4-8 Aug. 1986, Belo Horizonte, Brazil. *Documentos-Centro-Nacional-de-Pesquisa-de-Milho-e-Sorgo*. 1988, No. 6, 465-472.
- Snedecor,G.W. and W.G.Cochran (1967).** Statistical methods 6th Ed., Iowa State Univ. Press, Ames., Iowa, U.S.A.
- Soileau,J.M. and B.N.Bradford (1985).** Biomass and sugar yield response of sweet sorghum to lime and fertilizer. *Agron. J.* 1985, 77 (3): 471-475.
- Solanki,R.M. and H.C.Patel (1998).** Response of sorghum (*Sorghum bicolor* L. Moench) genotypes to nitrogen and phosphorus. *Agric. Sci. Digest- Karnal.*, 18 (4): 277-280.
- Sonar,K.P. and D.K.Ballal (1974).** Effect of manuring on uptake of nitrogen by harit jowar (*Sorghum vulgare* Pers).*Res.J. of Mahatma Phule Agric. Univ.*5 (1): 6-12.

- Souza,E.C.A.de; E.L.M.Coutinho; P.F.A.S.Tedrus and D.A.Banzatto (1987).** Effects of nitrogen and phosphorus fertilizers on sweet sorghum (*Sorghum bicolor* L. Moench) assessed by foliar diagnosis, and stem and ethanol yields. Cientifica., 15 (1-2): 137-146.
- Srivastava,R.K. and A.B.M.Siddique (1992).** Effects of *Azotobacter* culture and phosphorus level on growth and yield of sorghum. J. of Maharashtra Agric. Univ., 17(3): 373-375.
- Subramanian,K.S. (1994).** Influence of soil and foliar application of potassium on growth, nutrient utilization, yield and quality of sugarcane (*Saccharum officinarum* L.). New Botanist.,21 (1-4): 13-20.
- Pradhan,Sudhir and J.Mohan (1998).** Response of cereals to *Azospirillum brasilense*. Indian J.of Agric.Sci.68(10): 701-703.
- Sumeriya,H.K. (2000).** Response of different sorghum cultivars to nitrogen and *Azospirillum* inoculation. International J. of Tropical Agric. 2000, 18 (4): 399-401.
- Sutaria,G.S.; D.S.Hirpara; K.N.Akbari; M.N.Khokhani and A.S.Yusufsai (1999).** Fertilizer management in sorghum CSH-5 under rainfed agriculture . Indian J.of Agric. Res.,33 (2): 87-92.
- Taha,E.M.; A.A.El-Sherbeny and A.S.El-Ashmony (1986).** Influence of nitrogen levels and giberellic acid on sugarcane. Minia J. Agric. Res., Dev.,8 (2).
- Taha,Nour El-Hoda,M.; Laila,M.Saif ; F.A. Abd El-Latif and M.K.Aly (1994).** Effect of plant population and

nitrogen fertilization in relation to yield and quality of sweet sorghum. Egypt. J. Appl. Sci. 9 (7): 860-868.

Taha,Nour El-Hoda,M. and M.M.El-Koliey (1999). Response of sweet sorghum to irrigation intervals and nitrogen fertilization. Assiut. J. of Agric. Sci. 30 (3): 65-80.

Tanchev,D. (1995). Effect of fertilizer application on the development and seed yield of sorghum . Rasteniiev dni-Nauki., 32 (3): 35-37. (C.F.The Commnweelth Agric., Bureaux Abst. Dialog file R.N: 5613-32-8UD: 74910)

Teli,C.B.; H.Mallikarjun and S.K.Khanure (1998). Effect of N and K application and crushing period on fresh millable cane yield and loss in millable cane weight of sweet sorghum. Cooperative- Sugar. 1998, 30 (4): 287-290.

Thakre,D.C.; J.C.Soni; M.D.Vyas; P.P.Singh and R.Patel (1989). Response of sorghum hybrids to nitrogen. Indian J. Agron., 34 (2): 237-240.

Thakur,S.K. and K.D.N.Singh (1996). Effect of biofertilizers on the nitrogen economy of sugarcane in calciorthent. Indian Sugar , 46 (6): 403-409.

Thomas,J.R. and A.W.Scott (1990). Effect of nitrogen fertilization on availability of P and K to sugarcane. Conservation and Production Systems Res. Unit., ARS-USDA, Weslaco, 2: 10-14. (C.F.Field Crops Abst., 1992, 45: 3293).

Thorat,B.P.; M.S.Shinde; B.R.Patil and S.D.Ugale (1995). Response of sweet sorghum (*Sorghum bicolor*) to plant population, nitrogen and phosphorus. Indian J. of Agron. 1995.40 (4): 601-603.

- Tsai,Y.F.; W.L.Lay and H.C.Huang (1990).** Response of sorghum to P and K fertilizers. Bulletin of Taichung-District Agric. Improvement Station. 1990, No.26, 31-40.
- Turkhede,B.B. and R.Prasad (1980).** Effects of rates and timing of phosphate application on hybrid sorghum. Zeitschrift für Acker und Pflanzenbau 149 (5): 383. (C.F.The Commonwealth Agric., Bureau Abst. Dialog File R.N: 639-5-1UD: 2579).
- Vaidya,P.H.; P.A.Varade and V.V.Gabhane (1999).** Effect of various levels of manures and fertilizers on different fractions of potassium, its uptake and yield under sorghum- wheat cropping sequence in vertisol. Crop Res. Hisar.1999, 17(1): 61-66.
- Vashishatha,R.P. and D.K.Dwivedi (1997).** Effect of nitrogen and phosphorus on MP Chari sorghum (*Sorghum bicolor*).Indian J.of Agron. 1997, 42 (1): 112-115.
- Veerabadran,V. and P.Rajendran (1993).** Integrated nutrient management for rainfed sorghum in red soils of north western zone of Tamil Nadu- Madras Agric. J.1993, 80 (5): 255-258.
- Verma, K.S.; Y.P.Dang and B.S.Pannu (1991).** Effect of NPK and Zn nutrition on plant and ratoon crops of sugarcane. Indian J. Agric. Res., 25 (4): 217-221.
- Vijay,Kumar; K.S.Verma; O.P.Sagwal; V.Kumar (2003).** Effect of continuous application of different levels of potassium on yield and juice quality of sugarcane and economic return. Indian- Sugar, 52 (11): 911-917. (C.F.The Commonwealth Agric., Bureau Abst., Dialog File R.N: 0019-6428UD: 3109532).

- Vora,M.S. and H.N.Shelat (1998).** *Torulospora globosa*: a unique strain solubilizing tricalcium phosphate. Indian J.of Agric. Sci., 68 (9): 630-631.
- Waller,R.A. and D.B.Duncan (1969).** A bays rule for the symmetric multiple comparison problem. Amer, Stat, Assoc. J., Dec.,1485-1503.
- Wanjari,S.S.; B.V.Mahakulkar; D.B.Patil; V.B.Shekar and R.B.Pandrangi (1996).** Yield and juice quality of sweet sorghum (cv.SSV-84) under varying levels of N and P₂O₅ . PKV. Res. J. 1996, 20 (1): 78-79.
- Yadav,R.L. and S.R.Prasad (1989).** Response of sugarcane to potassium under moisture stress. Indian J. Agron., 34 (1): 130-132.
- Yadav,R.L. and S.R.Prasad and Kishan,Singh (1986).** Effect of potassium and trash mulch on yield and quality of sugarcane under limited water supply. J. Potassium Res., 2 (4): 136-139.
- Zade,K.B. ; P.D.Deshmukh ; R.T.Patil ; D.W.Taral ; K.G.Hatwar ; B.A.Lakhdiva and S.G.Kharche (1995).** Comparative efficiency of phosphatic fertilizers in sorghum-wheat cropping system. Fertilizer-News.1995, 40 (3): 19-21,23,25.
- Zasova,V.N. and V.F.Polezhaev (1984).** The photosynthetic productivity of plants of a sorghum- Sudan grass hybrid grown as a stubble crop in relation to sowing and fertilizer rates. Intensifikatsiya- proizvodstva-i-isopol'zovaniya-Kormov. 1984, 78-80. (C.F.The Commnweelth Agric., Bureaux Abst. Dialog File R.N: 928-10-3UD: 33577)