

6. REFERENCES

- Abdalla, I. M. ; Shafshak, Nadia S. Abo-Sedera, F. A. and Abd El- Rahman, L.A. (1990 a).** Effect of water regime and level on NPK fertilization on carrot I-vegetative growth and its chemical composition. Annals of Agric. Sc., Moshtohor, 28(4): 2517 -2528 .
- Abdalla, I. M. ; Shafshak, Nadia S. Abo- Sedera, F. A. and Abd El- Rahman, L. A. (1990 b).** Effect of water regime and level on NPK fertilization on carrot II-yield and its quality. Annals of Agric. Sc., Moshtohor, 28(4): 2531 -2542 .
- Abd El-Kader, A. E. (2002).** Effect of some organic and mineral fertilizers on some potato cultivars M.Sc. thesis, Fac of Agric., Mansoura Univ., Egypt.
- Abd El-Razik, A. H. (1996-a).** Potato crop under semiarid condition with special references to irrigation and potassium fertilization in sandy soil .Alex. J .Agric . Res., 41(3): 329-341 .
- Abou-Hussein, S. D. (2005).** Yield and quality of potato crop as affected by the application rate of potassium and compost in sandy soil Annals Agric. Sci. Ain shams Univ., Cairo, 50 (2): 573 – 586.
- Adams, S. S. and Stevenson, W. R. (1990).** Water management, disease development and potato production. Am. Potato J. 67: 3-11.

- Ali, M. A. (1993).** Physiological studies on water requirements of potato plant. Ph.D. Thesis. Fac. Agric. Moshtlohor, Zagazig Univ.
- Allen, R. G.; Pereira, L. S.; Raes, D. and Smith, M. (1998).** Crop evapotranspiration. Irrigation and Drainage Paper No. 56, FAO, Rome, Italy.
- Al-Shevsku, N. G. (1990).** Effect of potassium chloride and potassium magnesia on yield and quality of potatoes. *Agrokhimiya*, 8: 37-42. (C.F. Field Crop Abstr. 40: Abstr. 2927).
- Altnoff, D. A.; Da-Silva, A. C. F. and Da-Silva, A. C. F. (1998).** The effect of irrigation on potato growing in the southern littoral of Santa Catarina. *Agropecuaria Catarinense*. 11 (4): 27-32.
- Amer, M. H.; Abd El-Maksoud, H. H. and El-Refaie, M. M. H. (1992).** Influence of irrigation system and quantity of irrigation water on yield and quality of potato. *Zagazig. J. Agric. Res.* 19 (2): 945-954.
- Anand, S. and Krishnappa, K. S. (1988).** Effect of different levels of N and K on the growth, yield and quality of potato in sandy loam soil. *Mysore. J. Agric. Sci.* 22 (4): 483-389.
- Anand, S. and Krishnappa, K. S. (1989).** Dry matter accumulation and nutrient uptake by potato cv. Kufri Badshah as affected by different levels of N and K in sandy loam soil. *Mysore J. Agric. Sci.* 32 (1): 65-70.

- A. O. A. C. (1965).** Official methods of analysis of the association of official agricultural chemists, published by Association of Official Agricultural Chemist. (AOAC) 10th Ed Washington, USA.
- Arafa El-Said, M. M. (1999).** Comparative study on the production of some imported potato cultivars under different fertilization levels in sandy soils. Ph.D. Thesis Fac. of Agric. Moshtohor, Zagazig Univ.
- Arisha, H. M. and Bardisi, A. (1998).** Effect of mineral and organic fertilizers on growth, yield and tuber quality of potato under sandy soil conditions. Zagazig J. Agric. Res., 20 (2): 391-405.
- Augustin, J.; McDole, R. E. and Painter, C. G. (1977).** Influence of fertilizer, irrigation and storage treatments on nitrate N content of potato tubers. Am. Potato J., 54:125-136.
- Awad, S. M (2005).** The influence of organic and mineral fertilization on growth, yield and quality of potato crop .J. Agric. Sci. Mansoura Univ. 30 (12): 7965-7975.
- Bailey, R. (1990).** Irrigation crops and their management. Farming Press, London, UK.
- Bedaiwy, M.N.A. and Proter, G.A. (1998).** Effect of water management on four potato cultivars grown in the northeastern United States. 1. Effect on Crop Yield. Alex. J. Agriculture. Res. 43 (3): 255- 280.

- Bedaiwy, M.N.A. and Proter, G.A. (1999).** Effect of soil management and irrigation on growth, yield and quality of superior potatoes. J. Agric. Sci., Mansoura univ., 24(3) : 1399-1420 .
- Belanger, G.; Walsh, J.R.; Richard, J.E.; Milburn, P.H. and Ziadi, N. (2000).** Yield response of two potato cultivars to supplemental irrigation on N fertilization in New Brunswick. American Journal of Potato Research. 77 (1): 11-21.
- Bladev-Singh, TA ; Sandhn, B.S.; Khara, K.L., and Singh, B. (1988).** Response of autumn potato (*Solanwn tuberosum*) to irrigation and straw mulching in northern India. Indian Journal of agricultural sciences 58 (7): 521-524.
- Buniak. W. (1985).** The influence of irrigation and different rates of nitrogen and potassium on the composition and nutrient uptake of sugar beet and potatoes. Field Crop Abstr. 38: Abstr. 1288.
- Chadachan, R.B.; Nalawdi, U.G. and Madalagere, B.B. (1993).** Nitrogen on potassium nutrition of rainfed potatoes on verity soils of North Karnataka. J. Indian Potato Association 20 (3-4): 265-266.

- Chapman , H.D. and Pratt P. P. (1961).** Methods of Analysis for Soil, Plant and waters. Univ. of Calif. Division of Agric. Sci.
- Cox, H. E. and Pearson, D. (1962).** The Chemical Analysis of Foods, Chemical Publishing Co. Inc., New York.
- Das, S. K. and N. C. Banerjee (1996).** Nutrient uptake of crops and fertility status of soil at different mancrial treatments tuber potato based crop sequences. Potato Abst., 21 (4): 180.
- Doorenbos, J. and Kasam, A. H. (1986).** Yield response to water. Irrigation and Drainage Paper No. 33, FAO, Rome, Italy.
- Doorenbos, J. and Pruitt, W.D. (1977).** Guidelines for predicting crop water requirements. FAO Irrigation and Drainage Paper No. 24, (revised) FAO, Rome, Italy.
- Dubetz, S. and Bole, J. B. (1975).** Effect of nitrogen, phosphorus and potassium fertilizers on yield components and specific gravity of potatoes. American Potato Journal 52 (12) : 399- 405.
- Eid, H.M. and Metwally, M.A. and Mahrous, F.N. (1982).** Evaporation pan as an index to consumptive use of water and scheduling irrigation in some field crops. Agric. Res. Review (5), 257-279.

- Eid, H.M.; Ainer, N.G. and Metwally, M.A. (1987).**
Estimation of irrigation and temperature needs for the new land in Egypt. Mansoura Univ. Conf. of Agric. Sci. on Food Deficiency Over Coming Through Autonomous Efforts in Egypt 22-24 June, 1987. Mansoura .Egypt .
- Eremeev, V.; Joudu; J. Aaniste; P.L Makke A. (2001).**
Starch content and quality of potato varieties rich in starch. Transaction of the Estonian Academic Agricultural Society, 14:27-30.
- El-Banna, E. N.; Selim A. F. H. and Abd El-Salam H. Z. (2001).** Effect of irrigation methods and water regimes on potato plant (*Solanum tuberosum*, L.) under Delta soil conditions. J. Agric. Sci. Mansoura Univ., 26 (1): 1-11.
- El-Gamal, A. M. (1985).** Effect of potassium level on potato yield and quality. J .Agric. Sci., Mansoura Univ., 10 (4): 1473-1476.
- El-Leboudi, A. E.; Abu Mussin, H.; Sayed, A. and Gehan, Y. (1993).** Potassium nutrition of potato plants under different designs of fertilization. Annals of Agric. Sci. Moshtohor, 31 (2): 1297-1314.
- El-Marsafawy, S. M. (2000).** Scheduling irrigation of wheat crop under different phosphorus fertilizer application times in Middle Egypt.

- El-Marsafawy, S. M.; Bengamen, I. S.; El-Mcnvelhi, N. M. and Abd El Hafez, S.A. (2000).** Effect of different irrigation regimes on simulated potato productivity and water needs. Egypt. J. Appl. Sci., 15 (12): 350-365.
- El-Metwally, M. E. (2003).** Fertigation of drip irrigated potatoes (*solanum tubersum*, L.) Ph. D. Thesis, Fac. Of Agric. Mansoura University ,Egypt.
- El-Naggar, E.M.I. (1997).** Consumptive use under drip irrigation system. M.Sc. Thesis, , Fac. of Agric., Ain Shams University.
- El-Sawy, B. I.; Radwan, E. A. and Hassan, N. A. (2000).** Growth and yield of potato as affected by soil and foliar potassium application. J. Agric Sci., Mansoura Univ. Egypt, 25 (9): 5843- 5850.
- El-Tantawy, Manal M.M. (1997).** Plant response to climatic factors as an indication to estimating evapotranspiration for some vegetable crops. Ph.D. Thesis, Fac. Agric., Ain Shams Univ Egypt.
- Ferdous, A. I. Onawi and Shalanawi, M. (1985).** Determination of crop coefficient for potatoes in the Jordan valley. Amman (Jordan). 18 p. (C.f. AGRIS 1986-1988).

- Franke, A.E; L.C.P. Martini; O. Konig; E. Pozzeben and R.A. Liberalesso (1994).** Effect of irrigation on yield and quality of tubers in potato (*Solanum tuberosum*, L.) Revista Ceres, 41 (2): 366-378
- Foti, S.; Mauromicale, G. and Lerna, A. (1995).** Influence of irrigation regimes on growth and yield of potato (*Solanum tuberosum*, L.). Potato of Research, 38 (3): 307-318.
- Gameh, M. A; M. M. A. Abd Alla and M.H. Aboul-Nasr (2000)** Improving water use efficiency in the new valley. J. Agric. Sci., Mansoura Univ., 25 (1): 541-554.
- Gregory, E.J.; Kutac, W. and Lester, C. (1972).** Potassium fertilization of potatoes and corn in north Western New-Mexico. Research-Report, Agricultural-Experiment Station, New-Mexico-State, University. USA
- Gregory, P. J. and Simmonds L. P (1992).** Water relations and growth of potatoes. In Paul Harries (ed.). The potato Crop, Chapman & Hall London.
- Gregory, A. porter; Geraldine B. Opena; W. Bart Bradbury; Jeffrey C. McBurnie and Jonathan A. Sisson (1999).** Soil management and supplemental irrigation on potato. I. Soil properties, tuber yield and quality. Agronomy J., 91: 416-425.

- Guerra, A.; Barroso, R. and Corrales, I. (1990).** Mineral nutrition of potato on fersialitic soil. II. Response to P and K. *Agroquimica* 13 (2) 43-47. (C.F. Field Crop Abstr., 45 (12): Abstr. 8687 .
- Gunel, E. and Karadogan, A. (1998).** Effect of irrigation applied at different growth stages and length of irrigation period on quality characters of potato tubers. *Potato Research*. 41 (1): 9-19.
- Gupta, A. (1992).** Response of potato "*Solanum tuberosum*" to nitrogen and potassium fertilization. *Indian Journal of Agronomy* 37 (2) : 309-311.
- Guseinov, I.A. (1990).** Irrigation regimes of potatoes under conditions of Azerbai'dzhan. *Doklady – Vsesoyuznoi – Ordena - Lenina-i- Ordena. Trudovogo – Krasnoye – Znameni - Akademii-Sel's Kokozyaislvennykh. Nauk- Ino-V.I .Lenina. No. 10 : 61-63.*
- Hassan, MA.M.; El-Maziny, M.Y. and Gad El-Hak, H. (1985).** Effect of K and N rates on growth and yield of potatoes under Minia condition. *Minia Journal Agric. Res. And Dev.,* 7 (1) : 63-74.
- Hill W.A. and P. Bacon (1984).** Fertilizer N use efficiency and associative N₂ fixation of sweet potato. *Proc. 6th Int. Symp. on Trop. Root Crops, International Potato Center, Lima, Peru 20-25, Feb. 1983.*

- Humadi F.M. (1986).** Influence of potassium rates on growth and yield of potato. Iraqi J. Agric. Sci. Zanco. 4 (2): 69-75.
- Hartmann, H.D. ; Werum, H. ; Bruckner , U. and Zengerle, K. H. (1986).** Effect of irrigation on carrot yield. Einflues der Bewässerung auf den Ertrag Von Mohhren. Gamuse 22, 62-65.(C. F. Hort. Abstr. 56: Abstr. 5355).
- Jackson, T.L.; Johnson, M.J.; Sullivan, D.M. and James, S.R. (1981).** Potassium chloride and lime effects on yield and nutrient uptake by potatoes. Agronomy Abstracts. 73rd. Annual meeting, American Society of Agronomy.
- Jackson, M.L. (1973).** Soil Chemical Analysis Prentice - Hall of India, New Delhi.
- James, L.G.(ed) (1988).** Principles of farm irrigation system design. John Wiley Sons, New York.
- Jensen, M.C. and Middleton, J.E. (1965).** Scheduling irrigation from pan evaporation. Circular 386 Washington Agricultural Experiment Station USA .
- Jorgensen, V. (1989).** The effect of water stress on potato growth, development, yield and quality. Tidsskrift for Planteavl. 88: 5, 453-468.

- Kaushal, M.P. and Saggu, S.S. (1992).** Comparison of drip and furrow irrigation system for potato crop. Journal of Research, Punjab Agricultural University. 29 (1) : 91-98.
- Khalak, A. and Kumaraswamy, A.S. (1993).** Effect of irrigation schedules and fertilizer levels on tuber yield of potato. Journal of the Indian Potato Association. 20 (2): 162-164.
- Kramer, P.J. (1969).** Plant and soil water relationships. A modern synthesis. Mc Graw-Hill Publishing CO., New York, USA .
- Kincaid , D.C; Westermnn D.T. and Trout T.J. (1993).** Irrigation and soil temperature effects on Russet Burbank quality. American Potato Journal 70; (10), 711-723.
- Khandakhar, S.M.A.T.; Rahman, M.M; Uddin; M.J, Khan S.A.K.U and Qudduse K.G. (2004).** Effect of lime and potassium on potato yield in acid soil. Pakistan J. of Biological Sci. 7: 380-383.
- Lal, B. and Singh, K.B. (1983 a).** Effect of potassium on quality of potato (*Solanum tuberosum* L.) Agric. Sci. Digest 3 (1): 30-32.
- Lal, B. and Singh, K.B. (1983 b).** Potato production as influenced by spacing and potash application. Agric. Sci. Digest 3 (2): 111-112.

- Lasztity, B. (1990).** Effect of potassium fertilizer application to a calcareous sandy soil on some nutrient elements in plants and on the Al-K content of soil. *Novenytenneles* 39 (6): 523-532.
- Locascio, S.J.; Bartz, J.J.V. and Weingartner, D.P. (1992).** Calcium and potassium fertilization of potatoes grown in North Florida. I: Effects on potato yield and tissue Ca and K concentrations. *American Potato Journal* 69 (2) : 95-104.
- Lynch, D.R.; Foroud, N.; Koztib, G.C. and Parries, B.C. (1995).** The effect of moisture stress at three growth stages on the yield, components of yield and processing quality of eight potato varieties. *Am. Potato. J.* 72: 375- 385.
- Maier, N.A.; Dahlenburg, A.P. and Williams, C.M.J. (1994).** Effect of nitrogen, phosphorus and potassium on yield and petiole nutrient concentration of potato (*Solanum tuberosum L.*) cv. Kennebec and Atlantic. *Australian Journal of Experimental Agriculture* 34 (6): 825-834. (C.F. Field Crop Abstr. 48: Abstr.5316.
- Makkink, G.F. (1957).** Testing the penman formula by means of lysimeters *J. Inst Water Eng* (11): 277-278 .
- Markovic, V.; Ilin, Z. and Durovka, VI. (1992).** Importance of irrigation and mineral nutrition for yield quality of young potato. *Savremena-Polioprivreda*, 40 (1-2) : 216-219.

- Marschner, I.I. and Krauss, A. (1980).** Correlations between potassium content and quality of potatoes. Kartfielbou 31 (2): 65-67
- Marutani, M. and Guz, F. (1989).** Influence of supplemental irrigation on development of potatoes in the tropics. HortScience. 24: 6, 920-923.
- Mazullah-Khan, Mnrsalin-Khan, Abdnl Ghani, and Saadat-Khan. (1990).** Effect of different rates of potassium on yield and yield parameters of potato. Sarhad. J. Agric. 6 (2): 201-204.
- Mazur, T. and Krefft, L. (1991).** The effect of different rates of nitrogen, potassium and magnesium fertilizers on yield and tuber starch and protein content in two potato cultivars. Acta Acdemiae Agriculturae ac Technicae Olstenensis, Agricultura No. 53, 181-188. (C.F. Field Crop Abstr., 46 (5): Abstr 2928 .
- Mc-Dole, R.E. (1978).** Potassium fertilizer trials with potatoes on coarse-textured soils in Southeastern Idaho. American Potato Journal, 55 (3) : 161-170.
- Munzert, M. and Hege, U. (1985).** Potassium fertilizer rates and cultivar requirements of potatoes on fertilizer soils. Bayerisches V landwirtschaftliches Jahrbuch 62 (3): 354-364.

- Muzur, T.; Ciecko, Z. and Gronowicz, Z. (1979).** The effect of increasing rates of phosphorus and potassium fertilizer on the yield of five potato cultivars. zeszyty Naukow, Akademii Rolniczo techniczej W. Olsztynie Rolnictwo 28: 133-141.
- Murphy , j and Riley , J.P. (1962)** A modified single solution for the determination of phosphate in natural water. Annal Chem. Acta, 27 : 31-36 .
- Nakashgir, G.H.; Khan, G.M. and Wani, S.A. (1994).** Integrated management effect of nutrients and water on trie performance of potato (*Solanum tuberosum*) and their residual effect on yield of turnip "Brassica rapa" under rainfed conditions of Kashmir. Journal potassium Research 10 (1): 56-62.
- Nandekar, D.N., Shanna, T.R.; Sharma, R.C. and Sawarkar, S.D. (1991).** Fertilizer requirements of potato cv. Kufri. J. Indian Potato Assoc. 18 (3-4): 178-179.
- Negrila, C.; Negrila, C.E.; Negrila, M.; Pienescu, S.; Constaiitin, V. and Coiistantiu, D. (1994).** The effect of potassium nitrate fertilizer application on potato and sugar beet crops. Problem de Agrofitehnie Teoretica Si Aplicate 16 (1) 55-70 (C.F. Field Crop Abstr., 49 (1): Abstr. 455.

- Oweis, T.Y.; Ghawi, I.O. and Shataiwi, M.R. (1988).**
Irrigation production function and crop coefficients
of potato in the Jordan Valley. *Direst*, 15 (10) : 43-
55.
- Pisa, R.; Fortinii, S.; Gaspari, N. and Pritoni, G. (1989).**
Water use of field grown potatoes. *Irrigazionee
Drenaggio*, 36: 217-222.
- Piper, C.S. (1950).** Soil and Plant Analysis . Inter Science
Publisher , Inc., New York
- Podstawka-Chmievvska, E. and Malicki (1997).** Reaction of
potatoes to spray irrigation and nitrogen fertilizer
on light soil. *Annals-Universitaura*. 52:77-83.
- Porter, G.A. and Bedaiwy, M.N.A. (1998).** Effect of water
management on four potato cultivars grown in the
northeastern United States Effect on Crop Quality.
Alex. J. Agric. Res. 43(3): 281-301.
- Rabie, R.A. (1996).** Effect of some cultural practices on potato
production for processing. M.Sc. Thesis Fac. of
Agric., Cairo Univ.
- Raghuwanshi, R.K.S. and Verma, S.K. (1991).** Effect of
nitrogen levels and irrigation frequency on potato
yield in black cotton soil. *Journal of Maharashtra
Agricultural Universities*. 16(2): 226-228.

- Ranganna, S. (1977).** Manual of Analysis of Fruit and Vegetable products Central Food Technological Research Institute Mysore, USA .
- Ramink, S.; Dubey, Y.P. and Sharma, R. (1998).** Effect of irrigation and nitrogen on yield attributes, size and protein content of tubers of potato (*Solanum tuberosum* L.) in Lahaul valley of Himalayas. Annals of Agric. Bio Research. 3 (1): 61-66.
- Rashid, M.T. and Ahmed, B. (1988).** Consumptive use of water for potato. Pakistan Journal of Scientific and Industrial Research, 31:1, 57-66.
- Rayan, A.A.; Khalil, F.A.; EI-Amin, T.M. and El-Marsafawy, S.M. (2000).** Scheduling irrigation of cotton crop under different nitrogen fertilizer levels ill Upper Egypt. The 5th Conference Meteorology & Sustainable Development (24 February 2000).
- Richards, L.A. (Ed) (1954).** Diagnosis and Improvement of Saline and Alkali Soil. U.S. Dept. Agric., Handbook , No 60.
- Roth, D.; Degner, J. and Albrcht, M. (1998).** Irrigation of potatoes. what conditions increase the irrigation efficiency during cultivation. Neue-Candwirtschaft.. 6 : 52-53.

Roth, D.; Kachel, K.; Teichardt, R. and Schalitz, G. (1988).

Results and recommendation for sprinkler irrigation of culinary potatoes. *Feldwirtschaft*. 29(5) : 206-209.

Saha, R. M., Ondal, S.S. and Das, J. (2001). Effect of potassium with and without sulfur containing fertilizers on growth and yield of potato (*solanum tuberosum L.*). *Environment and Ecology*.19: 202-205.

Saggu, S.S. and Kaushal M.P. (1992) Comparison of dirp and furrow irrigation systems for potato crop. *J. of Research, Punjab Agriculture University*, 29 (1):91-98 .

Shaheen, A.M.; Bakry, M.O. and Omar, M.M. (1989). Effect of application of potassium to the soil and urea to the foliage on the productivity of potato (*Solatium tuhersum L.*) *Minufiya Journal of Agriculture Research*, 14 (1): 343-355.

Sharma, U.C. (1992). Potassium requirement of potato (*Solatium tuhersum L.*) in an acidic soil of Meghalaya. *Indian. J. Agric. Sci.*, 62 (2): 149.

Sharma, U.C. and Arodra, B.R. (1992). Uptake of Zinc, manganese, iron and Copper by potato as affected by potassium. *Madras Agricultural Journal* 79 (5) 250-255. (C.F. Field Crop Abstr. 47 : Abstr. 4497).

- Sharma, U.C. and Arora, B.R. (1987).** Effect of nitrogen, phosphorus and potassium application on yield of potato tuber (*Solatum tuhersum L.*). J . Agric. Sci. UK, 108 (2): 321-329.
- Sharma, U.C.; Upadhayay, N.C.; Singh, K. and Sharma, A.K. (1984).** Studies on nitrogen, potassium and potassium magnesium interaction in potato production. J. Indian potato Association 11 (1/2): 48-53.
- Sharma, U.C. and Grewal J.S. (1991).** Response of potato to NPK fertilization and their interaction effects. Journal of the Indian potato Association , 18 (1-2): 43- 47.
- Sharma, H.K.; Chakor I.S. and Vivek (1993).** Studies on autumn potato tuber, dry matter yield and WUE as influenced by soil, moisture regimes. Indian Agriculturist, 37 (4): 261-266.
- Sharma, U.C. (1992).** Potassium requirement of potato (*Solamim tuberosimi*) in an acidic soil of Meghalaya. Indian. J. Agric. Sci., 62 (2): 149.
- Shehata, S.A. and Abo-Sedera, F.A. (1994).** Effect of irrigation frequency and N,K level on growth, yield, chemical composition and storage ability of potato. Zagazig. J. Agric. Res. 21 (1).: 129-149.

- Shukla, D.N. and Singh, S.J. (1976).** Effect of the technique of potassium application on growth, yield and chemical composition of potato (*Solanum tuberosum* L.) varieties. Potash Review Subject 16 (1) 5 (C.F. Field Crop Abstr. 30 (6): Abstr. 3545).
- Silva, G.H.; Chase, R.W.; Hammerschmidt, R.; Vitosh, M.L. and Kitchen, R.B. (1991).** Irrigation, nitrogen and gypsum effects on specific gravity and internal defects of Atlantic potatoes. American Potato Journal. 68 (11): 751-756.
- Simpson, K.; Crooks, P. and McIntosh, S. (1973).** Effect of potassium and magnesium fertilizers on yield and size distribution of potatoes. Journal of Agricultural Science, U.K. 80: 3, 369-373 (C.F. Computer Research).
- Singh, S.S. and Kanshal, M.P. (1991).** Fresh and saline water irrigation through drip and furrow methods. International Journal of Tropical. Agriculture. 9: 3, 194-202.
- Sinha, M.N. and Rai, R.K. (1991).** Response of some winter field crops, berseem, potato and wheat to potassium. Journal of Potassium Research, 7 (4) 299-303.
- Singh, P.N.; Joshi, B.P.; Gunnel, S. and Singli, G. (1987).** Effect of mulch on moisture conservation, irrigation requirements and yield of potato. Indian Journal of agronomy, 32: 4, 452-454.

- Smith, F. and Dubois M. (1956)** Calorimetric method for determination of sugars and related substances *Anal . Chem .* 29: 350 .
- Smith, N. (1991).** "CROPWAT" model for ETo calculation using Penman Monteith Method. FAO, Rome , Italy.
- Soha, U.K.; Hye, M.A.; Haidcr, J. and Saha, R.R. (1997).** Effect of rice straw mulch on the water use and tuber yield of potato grown under different irrigation schedules. *Japanese Journal of Tropical Agriculture.* 41: 3, 168-176.
- Stark, J.C.; McCann I.R.; Westermann D.T. and Tindal T.A. (1993).** potato response to split nitrogen timing with varying amounts of excessive irrigation. *American potato journal*, 70 (11): 765-777.
- Stackman, W.P. (1966)** Determination of pore Size by the air bubbling pressure method proceeding unesce Symp on water in the unsaturated zone 366- 372.
- Stark J.C.; McCann I.R.; Westermann D.T.; Izadi and Tindal T.A. (1993).** potato response to split nitrogen timing with varying amounts of exssive irrigation. *American potato journal*, 70 (11): 765-777.
- Stenley, R. and Jewell, S. (1989).** The influence of source and rate of potassium fertilizer on the quality of potatoes for French fry production. *Potato Research*, 32 (4) 439-446.

- Stansell, J.R.; Hall, M.R. and Smirtle, D.A. (1990).** Effects of irrigation regimes on yield and water use by sweet potato. *Journal of American Society for Horticultural Science* Goshbs, Vol. 115, No. 5, 712-714.
- Steyn, J.M.; Du Plessis, H.F and Novtje, P.F. (1992).** The effect of different water regimes on up to date potatoes. II. Yield, size, distribution, quality and water use. *South African Journal of Plant and Soil*, 9 (3): 118-122.
- Struik P.C. and Van Voorst G . (1986).** Effect of frougth on the initiation yield and size distribution of tuber of *Solanum tuberosun*. L.Cv. Binhje. *Potato Res.*, (29) 487-500.
- Sud, K.C. and Grewal, J.S. (1991).** Effect of time of potassium application on potato nutrition in Shimla hills. *Journal of Potassium Research* 7 (4) 266-276.
- Sud, K.C. and Grewal, J.S. (1992).** Evaluation of methods of on acidic soils of shamle. *J. of Potassium Research* 8 (2) 137-143.
- Sud, K.C., Kokate, K.D. Grewal, J.S. Sharma, R.C. and Nand, H. (1994).** Studies on farm influence of potassium on potato yield and its uptake in Shimla hills. *Fertilizer News*. 39 (5): 53-59.

- Sujatha, N.T. and Krishnappa, K.S. (1995).** Effect of different fertility levels on dry matter production at different stages of growth and nutrient uptake of potato. Journal of the Indian Potato Association 22 (112) 83-85. (C.F. Field Crop Ahstr. 49 (5): 33G, 1996).
- Teixeira, N.T.; Zambon, S.; Bollela, E.R.; Nakano, M.N.; Oliveira, D.A.D.E and Calafiori, M.H. (1991).** Fertilization and aldicarb influencing N, P and K contents in leaves of potato crop (*Solanum tuberosum*). Ecossistema 1C, 199-125. (C.F. Field Crop Ahstr. 47 (4) : 2419, 1994).
- Trehan, S.P. and Grewal, J.S. (1991).** Effect of time and level of potassium application on tuber yield and K composition of plant tissues and tubers of two potato cultivars. Journal of the Indian Potato Association 18 (3-4) 115-121. (C.F. Field Crop Abstr. 45 (11) : 7944, 1992).
- Uppal, H.S; Surat, P. Mahal; S.S Bhupinder; K. Prakash S. and Kaur B. (1997).** Effect of time of K application and withdrawal of irrigation on yield and chip quality of potato. Journal of Potassium Research 13 (3-4): 277-282.

- Van Loon, C.D. (1981).** The effect of water stress on potato growth, development and yield. *American Potato Journal*. 58: 51-59.
- Vites, F.G.Jr. (1965).** Increasing water use efficiency by soil management. *Amer. Soc. Agron. Madison, Wise.* p-. 259-274.
- Vekhov, P.A, Kasitskii Yu. I. and Kulakova, V.U. (1984).** A selection of optimum forms of potassium fertilizer in relation to crops in rotation. *Khimiya. V. selskom. Khozyaistive* 22 (1): 16-20.
- Westermann, D.T.; Tindall, T.A.; James, D.W. and Hurst, R.L. (1994 a).** Nitrogen and Potassium fertilization on potatoes: yield and Specific gravity. *American Potato Journal* 71(7) 417-431
- Westermann, D.T.; Tindall, T.A.; James, D.W. and Hurst, R.L. (1994 b).** Nitrogen and potassium fertilization of potato potatoes: sugars and starch. *American potato J.* 71 (7): 433-453.
- White, R.P.; Munro, D.C. and Sanderson, J.B. (1974).** Nitrogen potassium and plant spacing effects on yield, tuber size, specific gravity and tissue N, P and K netted Gem. potatoes. *Can. J. plant Sci.* 54: 535-539.

- Wright, J.I. (1981).** Crop coefficients for estimates of daily crop evapotranspiration. Proc. American Society of Agricultural Engineers Irrigation Scheduling Conference, St. Joseph, MI. pp. 18-26.
- Yuan, T.L, Hensel, D.R. and Mansell, R.S. (1985).** Yield responses of potato to N and K fertilization in soil with high accumulated P. Proc. soil Crop Sci.-Soc. Florida 44: 107-110.
- Yang, X.; Guan P.C. and Li B.Q. (1993).** The effects of N K interaction on yield, quality and uptake of nitrogen, phosphorus and potassium in potato (*Solanum tuberosum*). Journal of South China Agricultural University, 14 (1) : 28- 32 .