

## BIBLIOGRAPHY



- Abou-Khaled, A.; Hagan, R.M. and D.C. Davenport (1970) : Effects of kaolinite as a reflective antitranspirant on leaf temperature transpiration, photosynthesis and water use efficiency. Water Resource Res., 6 : 280-289.
- Adedipe, N.O.; Ormrod, D.P. and A.R. Maurer (1969) : The response of pea plants to low concentrations of cycocel, phosphon-D and B-nine. Am. Soc. Hort. Sci., 94 : 321-323.
- Agarwal, R.M.; Das, R.R. and R.A.S. Chauhan (1986) : Growth of Vigna unguiculata Cultivar GWL K3B in sub-optimal moisture conditions as influenced by certain antitranspirants. Plant Soil, 91(1) : 31-42.
- Arnon, D.I. (1949) : Copper enzymes in isolated chloroplasts. Polyphenol oxidase in Beta vulgaris. Plant Physiol., 24 : 1-15.
- Askew, J.C.; Charles, H.G.; Harry, G.P. and J.K. Gary (1985) : Antitranspirant root dips / Transpiration rate. Hortiscience, 20(2): 29-221.
- Bardzik, J.M.; Marsh, H.V.J. and J.R. Havis (1971) : Effect of water stress on the activities of three enzymes in maize seedlings. Plant Physiol., 47 : 828-831.
- Bates, L.S.; Waldren, R.P. and I.D. Tease (1973) : Rapid determination of free proline for water stress studies. Plant and Soil, 39 : 205-207.
- Begg, J.E. and N.C. Turner (1976) : Crop Water Deficits. Adv. Agron., 28 : 161-217.

- Berkowitz, G.A. and J. Rabin (1988) : Antitranspirant associated abscisic acid effects on the water relations and yield of transplanted bell peppers. *Plant Physiol.*, 86 : 329-331.
- Boggess, S.F.; Aspinall, D. and L.G. Paleg (1976a) : Stress Metabolism IV. The significance of end production inhibition of proline biosynthesis and compartmentation in relation to stress induced proline accumulation. *Aust. J. Plant Physiol.*, 3: 513-525.
- Boggess, S.F.; Stewart, C.R.; Aspinall, D. and L.G. Paleg (1976-b) : Effect of water stress on proline synthesis from radio-active precursor. *Plant Physiol.*, 58 : 398-401.
- Bradford, K.J. (1983) : Water relations and growth of the Flacca tomato mutant in relation to abscisic acid. *Plant Physiol.*, 72 : 251-255.
- Bradford, K.J.; Sharkey, T.D. and G.D. Farquharr (1983) : Gas exchange, stomatal behaviour and  $\delta^{13}\text{C}$  values of Flacca tomato mutant in relation to abscisic acid. *Plant Physiol.*, 73 : 245-250.
- Cesar, C. and G.V. Edgar (1983) : Effect of different storage procedures oin the post-harvest conservation of Cassava (Manihot esculenta) roots cultivar Valencia. *Agrón Costarric*, 7(1/2):55.
- Chavan, S.R. (1987) : Physiological studies in nitrogen metabolism of Groundnut. [Arachis hypogaea L.] An M.Phil. dissertation approved by Shivaji University, Kolhapur.

- Crafts, A.S. (1968) : Water deficits and physiological processes. In : Water deficits and plant growth. Vol. II : Plant water consumption and response (Ed. Kozlowski, T.T.) Pb. Academic Press, New York, pp. 85.
- Curtis, O.F. (1926) : What is significance of transpiration. Sci., 63 : 267-271.
- Das, V.S.R.; Rao, I.M. and A.S. Raghavendra (1976) : Suppression of the stomatal opening by morphactins in isolated epidermal strips. Plant and Cell Physiol., 17 : 77.
- Das, V.S.R., Rao, I.M. and P.M. Swami (1977) : Antitranspirant activity of morphactin on cotton plants. Indian J. Expt. Biol., 15:642.
- Davenport, D.C. (1967) : Effect of chemical antitranspirants on transpiration and growth of grass. J. Expt. Bot., 18 : 332-347.
- Eglinton, G. and R.J. Hamilton (1967) : Leaf epicuticular Waxes. Science, 156 : 1322.
- Fenton, R.; Mansfield, T.A. and R.G. Jarvis (1982) : Evaluation of the possibilities for modifying stomatal movement. In JS McLaren, ed., Chemical manipulation of crop growth and development. Butterworth Scientific, London, pp 19-37.
- Ferri, M.G. and A. Lex (1949) : Stomatal behaviour as influenced by treatment with B-naphthoxyacetic acid. Contrib. Boyce Thompson Inst., 15 : 283-90.
- Folin, O. and W. Denis (1915) : A colorimetric method for the determination of phenols (and phenol derivatives) in urine. J. Biol. Chem., 22 : 305-308.

- Freney, J.R. (1955) : Increased growth and uptake of nutrients by corn plants treated with low levels of simazine. Australian J. Agri. Res., 16 : 257.
- Gaastra, P. (1959) : Mededel Landbou Whogeschool Wageningen 59 : 1.
- C.F. : Gale, J. and R.M. Hagan (1966) : Plant antitranspirants Ann. Rev. Plant Physiol., 17 : 269.
- Gale, J. and R.M. Hagan (1966) : Plant antitranspirants. Ann. Rev. Plant Physiol., 17 : 269.
- Gale, J.; A. Poljakoff-Mayber; Nir, I. and I. Kahane (1966) : Effect of antitranspirant treatment on the water balance of pine seedlings, under different climatic and soil moisture conditions. Plant and Soil, 24 : 81-89.
- Girase, P.D.; Surve, D.N. and U.R. Panpatil (1985) : Effects of defoliation, mulching and antitranspirants on yield of sugarcane. Maharashtra Agric. Univ., 10(1) : 19-20.
- Guerrero, M.G. (1982) : Assimilatory nitrate reduction. In : Techniques in Bioproduction and Photosynthesis. (Eds. J.Coombs and D.O. Hall), Pergamon Press, New York pp. 124-130.
- Gupta, P. and I.S. Sheoran (1983) : Responses of some enzymes of nitrogen metabolism to water stress in two species of Brassica. Plant Physiology and Biochemistry, 10(1) : 5-13.
- Hawk, P.B.; Oser, B.L. and W.H. Summerson (1948) : Practical Physiological Chemistry Pb. The Blackstone Co., USA. Toronto.

- Heuer, B.; Plaut, Z. and E. Federman (1979) : Nitrate and nitrite reduction in wheat leaves as affected by different types of water stress. *Physiol. Plant.*, 46 (4) : 318-323.
- Hsiao, T.C. (1973) : Plant response to water stress. *Ann. Rev. Plant Physiol.*, 24 : 519-470.
- Janardhan, K.; Murthy, P.V.; Giriraj, K. and S. Panchakshariah (1976): A rapid method for determination of osmotic potential of Plant Sap. *Curr. Sci.*, 44 : 390.
- Jarvis, P.G. (1971) : The estimation of resistance of carbondioxide transfer. In : *Plant photosynthetic production. Mannual of Methods.* (Eds.) Z.Sestak, J. Catsky and P.G.Jarvis, Dr.W.Junk Pb. The Hague : 566-631.
- Jones, R.J. and T.A. Mansfield (1970) : Suppression of stomatal opening in leaves treated with abscic acid. *J. Exp. Bot.*, 21 : 714.
- Jose, M. and W.M. Preebsting. (1986) : Storage of cut douglas-fir (Pseudotsuga menziesil) : Relationship to the damage threshold. *Hortiscience*, 21 (5) : 1174-1175.
- Kadam, N.D.; Patil,G.D.; Chougale, B.A. and S.S. Kadam (1988) : Effects of foliar application of Vipul on chlorophyll, active iron, catalase, peroxidase and polyphenol oxidase activities in Spinach. *Indian J. Plant Physiol.*, XXXI (4) : 434-436.
- Kamp, M. (1985) : Control of Erysiphae cichoracearum on Zinnia elegans, with a polymer based antitranspirants. *Hortiscience*, 20 (5) : 879-881.

- Knypl, J.S. (1970) : Inhibition of chlorophyll synthesis growth retarding chemicals and coumarin in detached cotyledons of pumpkins. Biochem. Physiol. Pflanz. (BPP), 161 : 1-13.
- Knypl, J.S. (1973) : Effects of growth retarding compounds on chlorophyll accumulation and nitrate reductase activity in nitrate induced cucumber cotyledons. Acta. Soc. Bot. Pol., 42 : 431-439.
- Kozlowski, T.T. (1968) : Physiological implications in afforestation. Proc. 6th World Forestry Conf. Madrid, 1966, F.A.O. Rome.
- Kozlowski, T.T. (1968) : Water deficits and plant growth : Vol. I : Development, Control and Measurement. Pb Academic Pres, New York.
- Kozlowski, T.T. and J.J. Clausen (1967) : Effects of alkaneylsuccinic acids on moisture content of Woody plants. Plant Physiol., 42 (Suppl.) : 17.
- Kramer, P.J. (1983) : Water relations of plants. Academic Press, New York, pp. 412-414.
- Landsberg, H. (1964) : Natural Resources for U.S.Growth : A look ahead to the year 2,000. Pb. Johns Hopkins Press.
- Lomte, M.H. and V.S. Khuspe (1987) : Effects of plant densities, phosphorus levels and antitranspirants on the yield of summer groundnut. J. Maharashtra Agric. Univ., 12(1) : 28-30.
- Lotfy, A.A.; Hussein, M.M. and T.A. Nour. (1987) : Effect of salinity and vapor gard on growth and mineral constituents of cotton seedlings. Soil Sci., 27(1) : 1-10.

- Malash, N.M.A.R. and T.J. Flowers (1984) : The effect of phenyl-mercuric acetate on salt tolerance in wheat. *Plant Soil*, 81(2): 269-280.
- McDaniel, G.L. (1985) : Antitranspirants and chloromequat. *Horticulture*, 20(2) : 293-296.
- Milborrow, B.V. (1969) : The occurrence and function of abscisic acid in plants. *Sci. Prog. Oxf.*, 57 : 533.
- Mirajkar, P.B. (1988) : Physiological Studies in jowar under conditions of stress. A Ph.D. Thesis approved by Shivaji University, Kolhapur.
- Mungse, H.B. and D.G.Bhapkar (1984) : Effects of antitranspirants and soil moisture regimes on transpiration and dry matter production of sunflower ( Helianthus annus ) plants. *Maharashtra Agric. Univ.*, 9 (1) : 86-88.
- Nagarajah, S. and G.B.Ratnasooriya (1977) : Studies with antitranspirants on tea ( Camellia sinensis L.) *Plant and Soil*, 48:185-197
- Nickel, L.G. (1982) : Plant growth regulator : Agricultural Uses. Springer-Verlag, New York, pp. 55-58.
- Pallas, J.E. Jr. and A.R. Bertrand (1966) : Research in plant transpiration. U.S. Dept. Agri. ARS Production Res. Rept. 89.
- Patil B.B. and R.De (1976) : Influence of antitranspirants on rape seed ( Brassica campestris ) Plants under water-stressed and non stressed conditioins. *Plant Physiol.*, 57 : 941-943.

- Paton, F. and W.W. Schwabe (1987) : Antitranspirant root distortion. J. Hortic. Sci., 62(1) : 79-88.
- Peter, S.; Moline, H.E. and J.A. Abbott (1986) : Antitranspirant on chilling injury. JAM Soc. Hortic. Sci. 111(6) : 866-868.
- Pridham, J.B. (1965) : Low molecular weight phenols in higher plants. Ann. Rev. Plant Physiol., 16 : 13-36.
- Raghavendra, A.S.; Rao, I.M. and V.S.R. Das (1976) : Characterisation of abscisic acid inhibition of stomatal opening in isolated epidermal strips. Plant Science Letters, 6 : 111.
- Rascheke, K. (1960) : Heat transfer between the plant and the environment. Ann. Rev. Plant Physiol., 11 : 111-126.
- Sable R.N. and V.S. Khuspe (1986) : Effects of moisture, phosphate and antitranspirants on growth, dry matter and yield of summer groundnut. J. Maharashtra Agric. Univ., 11(1) : 13-16.
- Salem, M.A. and S.H. Michail (1981) : The role of polyphenols, oxydative and macerating enzymes in onion bulb cultivars infected with Botrytis ali. Acta. Phytopathologica Academiae Scientiarum Hungaricae, 16(1/2) : 59-65.
- Santosh, Kumari and S. Bharti (1988) : Effect of CCC and P on water status and yield of sunflower ( Helianthus annus L.) under simulated drought conditions. Indian J. Plant Physiol., XXXI (4) : 381-387.
- Sapre, M.M. (1986) : Synthesis of water evaporation retardant chemicals and their potential in agriculture. Ph.D. thesis approved by Bombay University, Bombay.

- Shaha, C.B. and R.S. Loomis (1965) : Ribonucleic acid and protein metabolism in sugarbeet during drought. *Physiol. Plant.*, 18(1): 240-254.
- Shekhawat, N.S., Jain,H.C. and H.C.Arya (1980) : Accumulation of aromatic aminoacids, the precursors of auxin and phenols in pearl-millet infected with Sclerospora graminicola. *Comp. Physiol. Ecol.* 5 (1) : 39-42.
- Shekour, G.M.; Brathwaite, R.A.I. and C.R. McDavid (1987) : Dry season sweet corn response to mulching and antitranspirants. *Agron J.* 79 (4) : 629-631.
- Shimshi, D. (1963a) : Effect of chemical closure of stomata on transpiration in varied soil and atmospheric environments. *Plant Physiol.* 38 : 709-712.
- Shimshi, D. (1963b) : Effect of soil moisture and phenyl mercuric acetate upon stomatal aperture transpiration and photosynthesis. *Plant Physiol.*, 38 : 713-712.
- Shrinivasa Rao, N.R. (1985) : Antitranspirant on leaf water status. *Hortic. Sci.*, 60(1) : 89-92.
- Slatyer, R.O. and J.F. Bierhuizen (1964) : *Australian J. Biol. Sci.*, 17 : 131.
- Smith, D. and K.P. Bucholtz (1962) : Transpiration rate reduction in plants with atrazine. *Science*, 136 : 263-264.
- Smith, D. and K.P. Bucholtz (1964) : Modificatioin of plant transpiration rate with chemicals. *Plant Physiol.*, 39 : 572-578.

- Solarova, J.; Pospisilova, J. and B. Slavik (1981) : Gas exchange regulation by changing of epidermal conductance with antitranspirants. *Photosynthetica*, 15 : 365-400.
- Stewart, C.R. and A.D.Hanson (1980) : Proline accumulation as a metabolic responses to water stress. In : *Adaptation of plants to water and high temperature stress*. (Eds. N.C.Turner and P.J. Kramer ) John Wiley and Sons Inc., New York.
- Stodderd, E.M. and P.M. Miller (1962) : Chemical control of water loss in growing plants. *Science*, 137 : 224-225.
- Sutter, E. and M. Hutzell (1984) : Use of humidity tents and anti-transpirants in the acclimatization of tissue cultured plants to the greenhouse Sci. Hortic (AMST), 23(4) : 303-312.
- Theophrastus, Enquiry into plants (Greek 300 B.C.), 407 (Putnam, New York, 1916).
- Troeh, F.R. and R.G.Palmer (1970) : Introductory soil science laboratory manual. Printed by the Iowa, USA, 35-37.
- Tu, Z.P.; Armitage, A.M. and H.M.Vines (1985) : Influence of antitranspirants and a hydrogel on net photosynthesis and water loss of Cineraria (Senecio cruentus) during water stress. *Hortiscience*, 20 (3) : 386-388.
- Turner (1979) : Drought resistance and adaptation to water deficits in crop plants. In : *Stress physiology in crop plants* (Eds. H. Mussel and C.R.Staples), John Wiley and Sons, Inc., New York : 343-372.

Vaadia, Y.; Raney, F.C. and R.M. Hagan (1961) : Plant water deficits and physiological processes. Ann. Rev. Plant Physiol., 12 : 265-292.

Waggoner, P.E. (1966) : Decreasing transpiration and the effect upon growth. In : W.H.Pierre, D.Kirkham, J. Pesek, and R.Shaw, eds, Plant Environment and Efficient Water Use. American society of Agronomy, Madison Wis. pp.49-72.

Williamson, R.E. (1963) : The effect of transpiration suppressant on tobacco leaf temperature. Soil Sci. Soc. Amer. Proc., 27:106.

Wills, G.D. and D.E.Davis (1962) : The influence of atrazine on the water uptake of plants. Proc. Southern Weed Conf. 15:210.

Yadava, R.B.R.; Patil,B.D. and P.R. Sreenath (1978) : Effect of growth regulators on leaf growth, photosynthetic pigments and seed yield of burseem (Trifolium alexandrium L.) Forage Res. 4 : 121-125.

\* Zanobini, A.; Vanni, P.V. and A.M. Firenzuoli (1967) : Experientia., 23 : 105.

Zelitch, I. (1961) : Biochemical control of stomatal opening in leaves. Proc. Nat. Acad. Sci., 47 : 1423-1433.

Zelitch, I. (1964) : Reduction of transpiration of leaves through stomatal closure induced by alkaneylsuccinic acids. Science, 143 : 692-693.

Zelitch, I. and P.E. Waggoner (1962) : Effect of chemical control of stomata on transpiration and photosynthesis. Nat. Acad. Sci. Proc., 48 : 1101-1108.

Zelitch, I. and P.E. Waggoner (1962a) : Effect of chemical control of stomata on transpiration of intact plants. Proc. Natl. Acad. Sci. ( U.S. ) 48 : 1297

\* original not seen.