

References

- AOAC. 1975. Official Methods of Analysis. 12 th Edition, Wisconsin: George Banta Company, Inc.
- Abeles, F.B., P.W. Morgan and M.E., Saltveit Jr. 1992. Ethylene in Plant Biology, 2nd. Academic Press, San Diego, 414 p.
- Anupan, P. and N. Sukhvibul. 2005. Lychee and longan production in Thailand. *Acta Horticulturae*. 665: 53-59.
- Batten, D.J. and C.A. McConchie. 1995. Floral induction in growing buds of lychee (*Litchi chinensis*) and mango (*Mangifera indica*). *Australian Journal of Plant Physiology* 22: 783-791.
- Bangerth, F. 1997. Can regulatory mechanism in fruit growth and development be elucidated through the study of endogenous hormone concentrations? *Acta Horticulturae*. 463: 77-88.
- Bernier, G., J.M. Kinet and R.M. Sachs. 1985. *The Physiology of Flowering*. Volume III. The Development of Flowers, CRC Press, Inc. Boca Raton, Florida. 274 p.
- Campbell, R.J. and C.W. Campbell. 2001. Evaluation and introduction of lychee cultivars in south Florida. *Acta Horticulturae*. 558: 119-123.
- Chaikiattiyos, S., C.M. Menzel and T.S. Rasmussen. 1994. Floral induction in tropical fruit trees: effects of temperature and water supply. *Journal of Horticultural Science* 69: 397-415.
- Charoensri, P., K. Jutamanee, J. Tawatpun, P. Tongumpai and K. Krisanapook. 2005. Effects of potassium chlorate and girdling on flowering of "Phet Sakhon" longan. *Acta Horticulturae*. 665: 259-266.

- Chaitrakulsub, T., and S. Subhadrabandhu. 1983. Seasonal changes in total non-structural carbohydrates in leaves and stem apexes of *Litchi chinensis* Sonn. var. Hong Huay in relation to average temperature and rainfall. *ASST Newsletter* 16(1): 21-28.
- Chaitrakulsub, T., P. Sidthiwong, H. Gemma and C. Oogaki. 1989. Effects of SADH and MH on vegetative growth of longan (*Euphoria longana* Lamk.) in different orchard sites. *Japanese Journal of Tropical Agriculture* 33: 73-80.
- Chaitrakulsub, T., S. Subhadrabandhu, R. Ogata and H. Gemma. 1989. Effect of paclobutrazol with ethephon on flowering and leaf flushing of lychee cv. Hong Huay. *Acta Horticulturae*. 321: 303-307.
- Chaitrakulsub, T., R. Ogata, S. Subhadrabandhu, S. Powsung and H. Gemma. 1992. Use of paclobutrazol, and ethephon in influencing flowering, and leaf flushing of lychee cv. Hong Huay. *Acta Horticulturae*. 321: 309-317.
- Chen, W.S. 1990. Endogenous growth substances in xylem and shoot-tip diffusate of lychee in relation to flowering. *HortScience*. 25: 314-315.
- Chen, W.S. 1991. Changes in cytokinins before and during early flower bud differentiation in lychee (*Litchi chinensis* Sonn.). *Plant Physiology*. 96: 1203-1206.
- Chen, W.S. 1994a. Endogenous growth substances in relation to shoot growth and flower bud development of mango. *J. Amer. Soc.Hort. Sci.* 112: 360-363.
- Chen, W.S. 1994b. Gibberellins in buds of *Euphoria longana* Lam. during different stages of growth. *Botanical Bulletin Academic Sinica*. 35: 39-43.
- Chen, W.S. and M.L. Ku. 1988. Ethephon and kinetin reduce shoot length, and increase flower bud formation in lychee. *HortScience*. 23: 1078.

- Chen, W.S., Q.W. Huang and W.C. Ku. 1997. Cytokinin from terminal bud of *Euphoria longana* during different growth stages. *Physiologia Plantarum*. 99: 185-189.
- Cobin, M. 1950. The Lychee in Florida. University of Florida Agricultural Experiment Stations Bulletin No.471. 24 p.
- Davenport, T.L. 1990. Citrus flowering. *Horticultural Reviews*. 12: 349-408.
- Davenport, T.L. 2003. Management of flowering in three tropical and subtropical fruit tree species. *HortScience*. 38: 1331-1335.
- Davenport, T.L. and A. Nunez-Elisea. 1991. Is endogenous ethylene involved in mango floral induction? *Acta Horticulturae*. 291: 85-95.
- Davenport, T.L. and A. Nunez-Elisea. 1997. Reproduction physiology. In R.E. Litz (ed). *The Mango: Botany Production and uses*. CAB International, University Press, Cambridge.
- Davenport, T.L. and Z. Ying. 2003. Further characterization of the mango florigenic promoter. p. 26 In: *Proceedings of the Twenty-Eighth Annual Meeting of the Plant Growth Regulation Society of America*.
- Davenport, T.L., P.W. Morgan and W.R. Jordan. 1980. Reduction of auxin transport capacity with age and internal water deficits in cotton petioles. *Plant Physiology*. 65: 1023-1025.
- Davenport, T.L., Q. Zheng and V. Li. 2000. Reliable flowering of lychee (*Litchi chinensis* Sonn.) in Florida. p. 312-315. In *Proceedings of the Twenty-Seventh Annual Meeting of the Plant Growth Regulation Society of America*.
- Davenport, T.L., V. Kulkarni and T.L. White. 2001. Minimum number of leaves necessary for floral induction of mango. p. 67. In *Proceedings of the Twenty-Eighth Annual Meeting of the Plant Growth Regulation Society of America*.

- Davies, P.J. 1995. Plant hormones : Physiology, Biochemistry and Molecular Biology. Kluwer Academic, Boston, Massachusetts, 833 p.
- Dean, J.A. 1985. Lange's Handbook of Chemistry. McGraw-Hill Book Company, New York.
- El Hondairi, M.H. and A.E. Canham. 1990. The interacting effects of paclobutrazol and shading on growth and flowering of Maiden Bramley,s seedling apple trees. *Acta Horticulturae*. 279: 363-376.
- Ghosh, S.P. 2001. World trade in litchi: past, present and future. *Acta Hort*. 558: 23-30.
- Goren, M. and S. Gazit. 1993. Small-statured litchi orchards: a new approach to the growing of litchi. *Acta Horticulturae*. 349: 69-74.
- Goren, M., E. Tomer and S. Gazit. 2001. Litchi cultivars in Israel. *Acta Horticulturae*. 558: 129-133.
- Groff, G.W. 1943. Some ecological factors involved in successful lychee culture. *Proceedings of the Florida State Horticultural Society*. 56: 134-155.
- Hawley, G.G. 1981. The Condensed Chemical Dictionary. Liton Education, New York. 1135 p.
- Horgan, R. 1984. Cytokinins. p. 53-75. In Wilkins, M.B. (ed.) *Advanced Plant Physiology*. Pitman Publishing, London.
- Huang, P. and S. Weng. 1978. The effect of delayed shoot treatment of fruit bearing of litchi trees. *Journal of the Chinese Society for Horticultural Science*. 24: 121-126.
- Huang, Q.W. and Q.W. Huang. 1996. Changes in endogenous hormone contents in relation to flower bud differentiation and on-year or off-year fruiting of longan. *Journal of Tropical and Subtropical Botany*. 4: 58-62.

- ICI. 1984. Paclobutrazol plant growth regulator for fruit. Technical data sheet of Imperial Chemical Industries PLC, Surrey. 40 p.
- Jitareerat, S. 2002. Effect of Potassium Chlorate, Sodium Hypochlorite, Calcium Hypochlorite, Potassium Nitrate and Thiourea on Flowering of Do' longan. Master Thesis. Kasetsart University, Bangkok, Thailand.
- Kachru, R.B., A.N. Singh and E.K. Chacko. 1971. Inhibition of flowering in mango (*Mangifera indica* L.) by gibberellic acid. *HortScience*. 6: 140-141.
- Kanaree, W. and T. Pankasemsuk. 2005. Determination of Potassium Chlorate Residues in "Do" Longan Fruits. *Acta Horticulturae*. 665: 281-283.
- Khao-Sumeru, Y., C. Sritontip and S. Changenraja. 1999. Summary on the use of potassium chlorate and sodium chlorate for inducing off-season flowers in longan. Institute of Agricultural Research and Training, Lampang, Thailand. 5 p.
- Kiatsakul, D. 2004. Effect of Potassium Chlorate on Physiology of Longan Root. Ph.D. Thesis, Chiang Mai University, Chiang Mai, Thailand. 76 p.
- Kunyamee, S and A. Pichakum. 2005. Change of Carbohydrate and Plant Bioregulator Contents During the Development of Longan Terminal Shoots. Department of Plant Science Faculty of Science. Mahidol University Bangkok, Thailand.
- LaBrie, S., J.Q. Wilkinson and N.M. Crawford. 1991. Effect of chlorate treatment on nitrate reductase and nitrate reductase gene expression in *Arabidopsis thaliana*. *Plant Physiol*. 97: 573-879.
- Li, C. and V. Xiao. 2001. Girdling increases yield of 'Nuomici' litchi. *Acta Horticulturae*. 558: 233-235.
- Li, Y.C., T.L. Davenport, A. Rao and Q. Zheng. 2001. Nitrogen, flowering and production of lychees in Florida. *Acta Horticulturae*. 558: 221-224.

- Liang, W., L. Liang, Z. Ji and P. Li. 1987. The fluctuation of endogenous gibberellin and indole-3-acetic acid in *Litchi chinensis* shoot-tips during floral initiation. *Acta Horticulturae Sinica*. 14: 145-152.
- Liu, X.H. and C.L. Ma. 2001. Production and research of longan in China. *Acta Horticulturae*. 558, 73-82.
- Manochai, P. 2000. Longan. Department of Horticulture, Faculty of Agricultural Production, Mae Jo University, Thailand, 114 p.
- Manochai, P., V. Suthon, W. Wiriyalongkorn, N. Charasamrit and S. Ussahatanon. 1999. Effect of potassium chlorate on flowering of longan cvs. E-Daw and See Chompoo. p. 1-8. In Proceedings of the National Symposium on Plant Hormones for the Production of Off-Season Fruit. Research Council of Thailand, Bangkok, Thailand.
- Manochai, P., P. Srumsiri, W. Wiriyalongkorn, D. Naphrom, M. Hegele and F. Bangerth. 2005. Year around off season flower induction in longan (*Dimocarpus longan*, Lour.) trees by $KClO_3$ application: potentials and problems. *Scientia Hort.* 104: 379-390.
- Manos, P. J. and J. Goldthwaite. 1976. An improved cytokinin bioassay using cultured soybean hypocotyls section. *Plant physiol.* 57: 894-897.
- Marler T. E. and L. E. Willis. 1996. Root and stem growth patterns of young "Mauritius" lychee trees. *HortScience*. 31(5): 815-818.
- McConchie, C.A. and D.J. Batten. 1991. Fruit set in lychee (*Litchi chinensis* Sonn.). Variations between flowers, panicles and trees. *Australian Journal of Agricultural Research*. 42: 1163-1172.
- McGaw, B.A. and L.R. Burch. 1995. Cytokinin biosynthesis and metabolism. p. 98-117. In Davies, P.J. (ed.) *Plant Hormones. Physiology, Biochemistry and Molecular Biology*. Kluwer Academic, Boston, Massachusetts.

- Menzel, C.M. 1983. The control of floral initiation in lychee: a review. *Scientia Hort.* 21: 201-215.
- Menzel, C.M. 2001. The physiology of growth and cropping of lychee. *Acta Horticulturae.* 558: 175-184.
- Menzel, C.M. and B.F. Paxton. 1986. Effect of cincturing on growth and flowering of lychee: preliminary observations in subtropical Queensland. *Australian Journal of Experimental Agriculture* 26: 255-259.
- Menzel, G.M. and D.R. Simpson. 1987. Lychee nutrition: A review. *Scientia Hort.* 31: 195-224.
- Menzel, G.M. and D.R. Simpson. 1988. Effect of temperature on growth and flowering of litchi (*Litchi chinensis* Sonn.) cultivars. *Journal of Horticultural Science* 63: 349-360.
- Menzel, C.M. and D.R. Simpson. 1990. Effect of paclobutrazol on growth and flowering of lychee (*Litchi chinensis*). *Australian Journal of Experimental Agriculture* 30: 131-137.
- Menzel, G.M. and D.R. Simpson. 1994. Lychee. p. 123-145. In Schaffer, B. and Anderson, P.C. (eds) *Handbook of Environmental Physiology of Fruit Crops, Vol. II: Sub-Tropical and Tropical Crops.* CRC Press, Boca Raton, Florida.
- Menzel, C.M. and D.R. Simpson. 1995. Temperatures above 200C reduce flowering in lychee (*Litchi chinensis* Sonn.). *Journal of Horticultural Science* 70: 981-987.
- Menzel, C.M. and G.K. Waite. 2005. *Litchi and Longan : Botany, Production and Uses.* Maroochy Research Station, Queensland Department of Primary Industries and Fisheries, Nambour Queensland, Australia. 301 p.
- Menzel, C.M., M.L. Carseldine and D.R. Simpson. 1987. The effect of leaf age on nutrient composition of non-fruiting litchi (*Litchi chinensis* Sonn.). *Journal of Horticultural Science* 62: 273-279.

- Menzel, C.M., G.F. Haydon and D.R. Simpson. 1995. Growth of lychee (*Litchi chinensis* Sonn.) under variable nitrogen supply in sand culture. *Journal of Horticultural Science* 70: 757-767.
- Menzel, C.M., I.S. Rasmussen and D.R. Simpson. 1989. Effects of temperature and leaf water stress on growth and flowering of litchi (*Litchi chinensis* Sonn.). *Journal of Horticultural Science* 64: 739-752.
- Menzel, C.M., M.L. Carseldine, G.F. Haydon and D.R. Simpson. 1992. A review of existing and proposed new leaf nutrient standards for lychee. *Scientia Hort.* 49: 33-53.
- Moor, C.T. 1979. *Biochemistry and Physiology of Plant Hormones*. Springer-Verlag, New York. 274 p.
- Nakata, S. 1955. Floral initiation and fruit set in lychee, with special reference to the effects of sodium naphthaleneacetate. *Botanical Gazette*. 117: 126-134.
- Nakata, S. and V. Watanabe. 1966. Effects of photoperiod, and night temperature on flowering of *Litchi chinensis*. *Botanical Gazette*. 127: 146-152.
- Naphrom, D. 2004. Effect of Cool Temperature and Gas-Biosynthesis Inhibitors on Flower Induction and Related Hormonal Changes in Mango (*Mangifera indica* L.) Trees. Dissertation thesis of the University of Hohenheim, Faculty of Agricultural Sciences, Stuttgart, Germany. 87 p.
- Naphrom, D., C. Potjanapimon and S. Subhadrabandhu. 2001. Changes in cytokinin and gibberellin-like substances in stem apex of lychee cv. Hong Huay prior to flowering. *Acta Horticulturae*. 558: 199-203.
- Nishijima, T., M. Koshioka and H. Yamazaki. 1993. A highly sensitive rice seedling bioassay for the detection of femtomol quantities of 3 β -hydroxylate gibberellins. *Plant Growth Reg.* 13: 241-247.

- Olesen, T., C.M. Menzel, N. Wiltshire and C.A. McConchie. 1999. Manipulating flushing cycles and flowering in lychee. p. 47-52. In Menzel, C.M, Waite, G.K. and Bronson, R (eds) Proceedings of the Fifth National Lychee Conference. Australian Lychee Growers' Association, Twin Waters, Queensland, Australia.
- Olesen, T., C.M. Menzel, N. Wiltshire and C.A. McConchie. 2002. Flowering and shoot elongation of lychee in eastern Australia. *Australian Journal of Agricultural Research*. 53: 977-983.
- Pichakum, A and S. Kunyamee. 2005. Change of carbohydrate and plant bioregulator contents during the development of longan terminal shoot. p. 80-89. In Proceedings of the Second International Symposium on Lychee, ongan, Rambutan and Other Sapindaceae Plants. Department of Agriculture Bangkok, Thailand.
- Pankasemsuk, T. 1999. Longan and Chlorate Substances. Department of Horticulture, Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand. 53 p.
- Poruksa, R., C. Sritontip, S. Changjaraja and Y. Khaosumain. 1999. Effect of potassium chlorate, potassium nitrate, thiourea, sodium hypochlorite and calcium hypochlorite on floral bud development of longan. *Acta Horticulturae*. 665: 269-273.
- Qiu, J., X. Luo and D. Wu. 2001. Regulation of flower bud differentiation in longan. *Acta Horticulturae*. 558: 225-228.
- Rademacher, W. 2000. Growth retardants in agriculture and horticulture. p. 87-92. In Proceedings of the Twenty Seventh Annual Meeting of the Plant Growth Regulation Society of America.
- Ramburn, N. 2001. Effects of girdling and growth retardants on flowering and fruiting of litchi in Mauritius. *Acta Horticulturae*. 558: 229-232.

- Robbertse, H., J. Fivaz and C.M. Menzel. 1995. A reevaluation of tree model, inflorescence morphology, and sex ratio in lychee (*Litchi chinensis* Sonn.). *Journal of the American Society for Horticultural Science* 120: 914-920.
- Sethpakdee, R. 2002. Lychee production in Thailand. p. 106-113. In M.K. Papademetriou and F.J. Dent (ens.). *Lychee Production in the Asia-Pacific Region*. FAO. Bangkok.
- Shigeura, G. 1948. Blossom-bud formation and fruit setting in the litchi. Hawaii Agricultural Experiment Station Report 1946-48: 138-140.
- Sittichaikasem, S. 1974. The effects of some environmental factors and certain growth regulator treatments on flowering of *Litchi chinensis* Sonn. var. Hong Huay. Master Thesis, Kasetsart University, Bangkok, Thailand.
- Smith, D., G. M. Pavisen and C.A. Raguse. 1964. Extraction of total available carbohydrates from grass and legume tissue. *Plant Physiol.* 39: 960-962.
- Srikasetsarakul, U. 2007. Effect of Potassium Chlorate and Light on Flower Bud Differentiation and Changes in Indole-3-acetic Acid and Ethylene in Shoot and Leaves of Longan cv. Daw. M.S. Thesis, Chiang Mai University, Chiang Mai, Thailand. 65 p.
- Sritontip, C., Y. Khao-Sumeru and S. Changenraja. 1999. Effect of potassium chlorate on flowering in longan cv E-Daw. p. 30-37. In *Proceedings of the National Symposium on Plant Hormones for the Production of Off-season Fruit*. Research Council of Thailand, Thailand.
- Sritontip, C., Y. Khao-Sumeru, S. Changjaraja and R. Poruksa. 2005. Effect of potassium chlorate, sodium hypochlorite and calcium hypochlorite on flowering and some physiological changes in "Do" longan. *Acta Horticulturae*. 665: 269-271.

- Stern, R.A. and S. Gazit. 1993. Autumnal water stress checks vegetative growth and increases flowering and yield in litchi (*Litchi chinensis* Sonn.). *Acta Horticulturae*. 349: 209-212.
- Stern, R.A., A. Naor, N. Bar, S. Gazit and B.A. Bravdo. 2003. Xylem-sap zeatin-riboside and dihydrozeatin-riboside levels in relation to plant and soil water status and flowering in 'Mauritius' lychee. *Scientia Hort.* 98: 285-291.
- Subhadrabandhu, S. 1986. Studies of plant growth regulator effects on tropical and subtropical tree fruits of Thailand. *Acta Horticulturae*. 175: 291-297.
- Subhadrabandhu, S. 1990. Lychee and Longan Cultivation in Thailand. Rumthai Publication, Bangkok, Thailand, 40 p.
- Subhadrabandhu, S. and A. Koo-Duang. 1987. Effect of ethephon on flowering of two lychee (*Litchi chinensis* Sonn.) cultivars. *Acta Horticulturae*. 201: 181-186.
- Subhadrabandhu, S. and C. Yapwattanaphun. 2000. Regulation of flowering time for longan (*Dimorcarpus longan*) production in Thailand. *Journal of Applied Horticulture* 2: 102-105.
- Subhadrabandhu, S. and C. Yapwattanaphun. 2001a. Lychee and longan production in Thailand. *Acta Horticulturae*. 558: 49-57.
- Subhadrabandhu, S. and C. Yapwattanaphun. 2001b. Regulation off-season flowering of longan in Thailand. *Acta Horticulturae*. 558: 193-198.
- Tanyapa, T. 1995. Principles of Fruit Orchard Management. Department of Horticulture, Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand.
- Thonglem, W. and T. Pankasemsuk. 2000. Change of ethylene concentration in stem apex of 'Do' longan and 'Hong Huai' lychee prior to flowering. In Proceedings of the Second International Symposium on Lychee, ongan, Rambutan and Other Sapindaceae Plants. Department of Agriculture Bangkok, Thailand.

- Wewatanadate, P., A. Voravong, T. Mahawana and D. Saraprug. 2001. Health effects in potassium chlorate-exposed longan growers. *Internal Medicine Journal of Thailand* 17: 94-97.
- Wangsin, N. and T. Pankasemsuk. 2005. Effect of potassium chlorate on flowering, total nitrogen, total nonstructural carbohydrate, C/N ratio, and contents of cytokinin-like and gibberellin-like substances in stem apex of 'Do' longan. *Acta Horticulturae*. 665: 255-258.
- Yamasaki A., T. Yoneyama, F. Tanaka, K. Tanaka and N. Nakashima. 2002. Tracer studies on the allocation of carbon and nitrogen during flower induction of strawberry plants as affected by the nitrogen level. *Acta Horticulturae*. 567: 349-352.
- Yemm, E. W. 1935. The respiration of barley plants. I. Method for the determination of carbohydrates in leaves. *Proc. Royal Soc. London (Ser. B.)*. 117: 483-504.
- Young, T.W. and R.W. Harkness. 1961. Flowering and fruiting behavior of Brewster lychees in Florida. *Proceedings of the Florida State Horticultural Society*. 74: 358-363.
- Young, T.W., J. Popenoe and C.W. Campbell. 1960. Lychee culture. *Annual Report of the Florida Agricultural Experiment Station, Gainesville, Florida*, p. 316.
- Zheng, Q., T.L. Davenport and Y.C. Li. 2001. Stem age, winter temperature and flowering of lychee in south Florida. *Acta Horticulturae*. 558: 237-240.