Daftar Pustaka

Ahmad, I., J.M. Dole, A. Amjad, & S. Ahmad. 2012. Dry storage effects on postharvest performance of Selected Cut Flowers. *American Society for Horticultural Science*, 22(4): 463-469.

Ananthaselvi, K., S.P. Thamarai Selvi, S. Subramanian, & C.N. Chandrasekhar. 2019. Effects of chitosan on growth and yield of African Marigold (*Tagetes erecta* L.) under drought induced stress condition. *International Journal of Chemical Studies*, 7(3): 3612-3615.

Angeles G., B. Bond, & J.S. Boyer. 2004. The cohesion-tension theory. *New Phytologist,* 163: 451–452.

Arend, M. & J. Fromm. 2007. Seasonal change in the drought response of wood cell development in poplar. *Tree Physiology*, 27: 985-992.

Asrar, A.A. & K.M. Elhindi. 2011. Allevtion of drought stress of marigold (*Tagetes erecta* L.) plants by using arbuscular mycorrhizal fungi. *Saudi Journal of Biological Sciences*, 18: 93-98.

Baas, P., F.W. Ewers, S.D. Davis, & E. Wheeler. 2004. Evolution of xylem physiology. Dalam: Hemsley, A.R. & I.Poole. 2004. *The Evolution of Plant Physiology*. London: Elsevier Academic Press. Pp: 273-295.

Beck, C.B. 2005. *An introduction to Plant Structure and Development : Plant Anatomy for the Twenty-First Century*. Cambridge: Cambridge University Press. pp: 108-109.

Bista, D.R., S.A. Heckathorn, D.M. Jayawardena, S. Mishra, & J.K. Boldt. 2018. Effects of drought on nutrient uptake and the level of Nutrient-uptake proteins in roots of drought-sensitive and -tolerant grasses. *Plants,* 7(2): 28-44 .

Bond, B.J. & N.G. Ryan. 2000. Comment on 'Hydraulic Limitations of Tree Height' by Becker, Meizner, & Wullschleger. *Functional Ecology,* 14: 135-140.

Boughalleb, F., R. Abdellaoui, N. Ben-Brahim, & M. Neffati. 2014. Anatomical adaptations od *Astralagus gombiformis Pomel.* Under drought stress. *Central European Journal of Biology*, 9(12): 1215-1225.

Bradford, K.J. & T.C. Hsiao. 1982. Physiological responses to moderate water stress. Dalam: O.L. Lange, P.S. Nobel, C.B. Osmond, & H. Ziegler. *Encyclopedia of Plant Physiology*. Berlin: Springer. Pp: 264

Burnett, S.E., S.V. Pennisi, P.A. Thomas, & M.W. van Iersel. 2005. Controlled drought effects on morphology and anatomy of *Salvia splendens*. *Journal of American Society of Horticultural Science*, 130(5): 775-781.

Carlquist, C. 1988. *Comparative Wood Anatomy: Systematic, Ecological, and Evolutionary Aspects of Dicotyledon Woods*. New York: Springer. Pp: 54, 216.

Carlquist, S. 1977. Ecological factors in wood evolution: a floristic approach. *American Journal of Botany*, 64(7): 887-896.

da Costa, L.C., F.F. de Araujo, W.S. Ribeiro, M.N. de Sousa Santos, & F.L. Finger. 2021. Postharvets physiology of cut flowers. *Ornamental Horticulture*, 27(3): 374-385.

da Silva, V.R. 2013. *Hydraulic Conductivity*. Rijeka : InTech. pp: 5.

Darmanti, S. 2015. Penebalan dinding sel xilem tanaman kedelai (*Glycine max* (L.) Merr.) var. Grobogan akibat cekaman ganda interferensi teki (*Cyperus rotundus* L.) dan kekeringan. *Buletin Anatomi dan Fisiologi,* 23(2): 23-28.

De-La-Cruz-Guzman, G.H., V.C. Rosas-Balderas, A. Arriaga-Frias, M. Mandujano-Pina, & S. Aguilar-Rodriguez. 2019. Stem anatomy of alstromeria v. Rebecca and it's relation with the life in vase. *Revista Bio Ciencas*, 6: e568.

Dickison, W.C. 2000. *Integrative Plant Anatomy*. San Diego: Academic Press. pp: 89-91.

Direktorat Jenderal Holtikultura. 2017. *Laporan Kinerja Direktorat Jenderal Holtikultura Tahun 2017*. Jakarta: Direktorat Jenderal Holrikultura.

El-Afry, M.M., M.F. El-Nady, E.B. Abdelmonteleb, & M.M.S. Metwaly. 2012. Anatomical studies on drought-stressed wheat plants (*Triticum aestivum* L.) treated with bacterial strains. *Acta Biologica Szegediensis*, 56(2): 165-174.

February, E. 1983. Sensitivity of xylem vessel size and frequency to rainfall and temperature: implication for palaentology. *Palaent. Afr.,* 30: 91-95.

Fichot, R., F. Laurans, R. Monclus, A. Moreau, G. Pilate, & F. Brignolas. **2009.** Xylem anatomy correlates with gas exchange under contrasting water regimes: evidence from *Populus deltoides* X *Populus nigra* hybrids. *Tree Physiology*, 29: 1537-1549.

Fitchler, E. & M. Worbes. 2012. Wood anatomical variables in tropical tress and their relation to side conditions and individual tree morphology. *IAWA Journal*, 33(2): 119-140.

Fukuda, H. 1997. Tracheary element differentiation. *The Plant Cell*, 9: 1147-1156.

Gomez, K.A. & A.A. Gomez. 1983. *Prosedur Statistik untuk Penelitian Pertanian*, Edisi Kedua. Jakarta: UI-Press. Pp: 192

Gopi, G., A. Elumalai, & P. Jayasri. 2012. A concise review on *Tagetes erecta*. *International Journal of Phytopharmacy Research,* 3(1): 16-19..

Garcia-Cervigon, A.I., A. Fajardo, C. Caetano-Sanchez, J.J. Camarero, & J.M. Olano. 2020. Xylem anatomy needs to change, so that conductivity can stay the same: xylem adjustment across elevation and latitude in *Nothofagus pomilio. Annals of Botany*, 125: 1101-1112.

Grossiklaus, U. 2019. *Plant Development and Evolution*. Cambridge : Elsevier Inc.pp: 152.

Guna, A.V., & Purnomo. 2021. Variasi dan hubungan fenetik aksesi kunyit di Yogyakarta dan sekitarnya. *Jurnal Penelitian Saintek,* 26(1): 35-56.

Guo, X., C. Peng, T. Li, J. Huang, H. Song, Q. Zhu, & M. Wang. 2021. The

effects of drought and re-watering in non-structural carbohydrates of *Pinus tabulaeformis* seedlings. *Biology*, 10(4): 281.

Gupta, J. & R.K. Dubey. 2018. Factors affecting post-harvest life of flower crops. *International Journal of Current Microbiology and Applied Sciences*, 7(1): 548-557.

Hacke, U.G. & S. Sperry. 2001. Functional and ecological xylem anatomy. *Perspe.. in Plant Ecology, Evolution and Systematics*, 4(2): 97-115

Hacke, U.G., J.S. Sperry, W.T. Pockman, S.D. Davis, & K.A. McCulloh. 2001. Trends in wood density and structure are linked to prevention of xylem implosion by negative pressure. *Oecologia*, 126: 457-461.

Hacke, U.G., R. Spicer, S.G. Schreiber, & L. Plavcova. 2016. An ecophysiological and developmental perspective on variation in vessel diameter. *Plant, Cell, and Environment*. 40(6): 831-845.

Hayat, F., M.A. Ahmed, M. Zarebanadkouki, M. Javaux, G. Cai, & A. Carminati. 2019. Transpiraion reduction in Maize (*Zea mays* L.) in response to soil drought. Dalam: Ferrio, J.P., M. Dubbert, & C.M. Maguas. 2020. *Greenside of the Water Cycle : New Advances in The Study of Plant Water Dynamics*. Lausanne: Frontiers Media. Pp: 23-30.

Hoeber, S., C. Leuschner, L. Kohler, D. Arias-Aguilar, & B. Schuldt. 2014. The importance of hydraulic conductivity and wood density to growth performance in eight tree species from a tropical semi-dry climate. *Forest Ecology and Management*, 330: 126-136.

In, B.C., J.Y. Seo, & J.H. Lim. 2016. Preharvest Environmental Conditions Affect the Vase Life of Winter-Cut Roses Grown under Different Commercial Greenhouses. *Holticulture, Environtment, and Biotechnology,* 57(1): 27-37.

Ismail, Z.A.K. 2017. Anatomical study of *Tagetes erecta* (L.) (Asteraceae). *International Journal of Sciences: Basic and Applied Research (IJSBAR),* 36(3): 198-204.

Janick, J. 1981. *Horticultural Reviews*. Conneticut: The AVI Publishing Company. pp: 96.

Jeang, P.S. 2000. *Bacterial Growth and Stem Water Relations in Cut Flowers*. Disertasi. Hobart: University of Tasmania.

Kannenberg, S.A. & R.P. Phillips. 2019. Non-structural carbohydrates pools not linked to hydraulic strategies and carbon supply in tree saplings during severe drought and subsequent recovery. *Tree Physiology*, 40: 259-271.

Kapoor, D., S. Bhardwaj, M. Landi, A. Sharma, M. Ramakrishnan, & A. Sharma. 2020. The impact of drought in plant metabolism: how to exploit tolerance mechanism to increase crop production. *Applied Sciences*, 10(16): 1-19.

Kim, H.K., J. Park, & I. Hwang. 2014. Investigating water transport through the xylem network in vascular plants. *Journal of Experimental Botany*, 65(7): 1895–1904

Kupler, J., J. Wieland, R.R. Junker & M. Ayasse. 2021. Drought-induced reduction in flower size and abundance correlates with reduced flower visit by

bumblebees. *AoB PLANTS*, 13(1): plab001.

Li, S., F. Lens, S. Espino, Z. Karimi, M. Klepsch,, M. Schmitt, B. Schuldt, & S. Jansen. 2016. Intervessel pit membrane thickness as a key determinant of embolism resistance in angiosperm xylem. *IAWA Journal,* 37(2): 151-171.

Lovisolo, C. & A. Schubert. 1998. Effects of water stress on vessel size and xylem hydraulic conductivity in *Vitis vinifera* L. *Journal of Experimental Botany*, 49(321): 693-700.

Mannivannan, C., C.A. Jaleel, B. Sankar, A. Kishorekumar, R. Somasundaram, G.M.A. Lakshmanan, & R. Panneerselvam. (2007). Growth, Biochemical modifications and proline metabolism in *Helianthus annuus* L. as induced by drought stress. *Colloids and Surfaces B: Biointerfaces,* 59: 141-149.

Manurung, H., W. Kustiawan, I.W. Kusuma, & Marjenah. 2019. Pengaruh Cekaman Kekeringan terhadap Pertumbuhan dan Kadar Flavonoid Total Tumbuhan Tabat Barito (Ficus deltoidea Jack). *Jurnal Hortikultura Indonesia,* 10(1): 55-62.

Marissen, N. 2001. Carbohydrate levels and vase life of cut flowers. *Acta holticulturae*, 542: 331-336.

Martinez, M.L., G. Bettucci, M. Gattuso, & A. Cortadi. 2013. Analytical micrograph characters of leaves, stems, inflorences-flowers of *Tagetes lucida* Cav. (Asteraceae-Helenieae). *Dominguezla,* 29(1): 29-37.

Martre, P., H. Cochard, & J.-L. Durand. 2003. Hydraulic architecture and water flow in growing grass tillers (*Festuca arundinacea* Schreb.). *Plant, Cell, and Environment*, 24(1): 65-76.

Melcher, P.J., M.N. Holbrook, M.J. Burns, M.A. Zwieniecki, A.R. Cobb, T.J. Brodribb, B. Choat, L. Sack. 2012. Measurements of stem xylem hydraulic conductivity in the laboratory and field. *Methods in Ecology and Evolution*, 3: 685-694.

Mortensen, M.L. and T. Fjeld. 1998. Effects of air humidity, lighting period and lamp typeon growth and vase life of roses. *Scientia Horticulturae.* 73: 229-237.

Naik, M.L. 2015. Influence of nitrogen and phosphorus on flowering of African marigold (*Tagetes erecta* L.) *var.* Cracker jack. *The Asian Journal of Holticulture, 9(2) :*315-318

Naing, A.H., S.M. Jeon, J.S. Park, & C.K. Kim. 2016. Combined effects of supplementary light and CO_2 on rose growth and the production of good quality cut flowers. *Canadian Journal of Plant Science*, 96(3): 503-510.

Netam, N. 2018. Imroving ornamental's vase life through molecular approach: a review. *Journal of Pharmacology and Phytochemistry,* 7(2): 1687-1691.

Njisse, J. 2001. *Functional anatomy of the water transport system in cut chrysanthemum.* Disertasi. Wegeningen: Wegeningen University.
Perspectives in Plant Ecology, Evolution, and Systematics, 4(2): 87-115.

Pittermann, J. 2010. The evolution of water transport in Plants: an integrated approach. *Geobiology,* 8: 112-139.

Pun, U.K. & K.Ichimura. 2003. Role of sugars in senescence and biosynthesis of ethylene in cut flowers. *Japan Agricultural Research Quarterly,* 37(4): 219-224.

Qaderi, M.M., A.B. Martel, & S.L. Dixon. 2019. Environtmental factors influence plant vascular system and water regulation. *Plants,* 8(3): 65-88.

Rabaey, D., F. Lens, E. Smets, & S. Jansen. 2006. The micromorphology of pit membranes in tracheary elements of Ericales: new records of tori or pseudo-tori?. *Annals of Botany,* 98(5): *943-951.*

Riaz, A., A. Younis, A.R. Taj, A. Karim, U. Tariq, S. Munir, & S. Riaz. 2013. Effects of drought stress on growth and flowering of marigold (*Tagetes erecta* L.). *Pakistan Journal of Botany*, 45(S1): 123-131.

Sano, Y. & J. Jansen. 2006. Perforated pit membranes in imperforate tracheary elements of some angiosperms. *Annals of Botany, 97: 1145-1153.*

Satoh, S., H. Nukui, & T. Inokuma. 2005. A method for determining the vase life of cut spray carnation flowers. *Journal of Apllied Horticulture, 7(1): 8-10.*

Schimel, J., T.C. Balser, & M. Wallenstein. 2007. Microbial stress-response physiology and it's implications for ecosystem functions. *Ecology*, 88(6): 1386-1394.

Schuetz M., R. Smith, & B. Ellis. 2012. Xylem tissue specification, patterning, and differentiation mechanism. *Journal of Experimental Botany*, 64(1): 11-31.

Schweingruber, F., A. Borner, & E.-D. Schulze. 2013. *Atlas of Stem Anatomy in Herbs, Shrubs, and Trees Volume II*. Berlin: Springer. Pp: 108

Shetty, L.J., L.M. Sakr., K. Al-Obaidy, M.J. Patel, & H. Sareef. 2015. A brief review on medicinal plant *Tagetes erecta* Linn. *Journal of Apllied Pharmaceutcal Science,* 5(3): 91-95.

Sperry J.S. & E.M. Sullivan, 1992. Xylem Embolism in response to freeze-thaw cycles and water stress in ring-porous, diffuse-porous, and conifer species. *Plant Physiology,* 100: 605-613.

Sperry J.S. & M.T. Tyree, 1988. Mechanism of water stress-induced xylem embolism. *Plant Physiology,* 88: 581-587.

Sperry J.S. & M.T. Tyree, 1990. Water-stress-induced xylem embolism in three species of conifers. *Plant, Cell, and Environment,* 13: 427-436.

Sperry, J.S., U.G., Hacke, & J. Pittermann. Size and Function in conifers tracheids and angiosperm vessels. *American Journal of Botany*, 93: 1490-1500.

Takeno, K. 2016. Stress-induced flowering: the third category of flowering response. *Journal of Experimental Botany*, 67(17): 4925-4934.

Twumasi, P., W. van Leperen, E.J. Woltering, A.M.C. Emons, J.H.N. Schel, J.F.H. Snel, U. van Meeteren, & D. van Marwijk. 2005. Effect of water stress during growth in xylem anatomy, xylem functioning, and vase life in three *Zinnia elegans* cultivars. *Acta Horticulturae*, 669: 303-311.

Tyree, M.T. & J.S. Sperry. 1989. Vulnerability of xylem to cavitation and embolism. *Annual Review of Plant Physiology and Plant Molecular Biology*,

40: 19– 38.

van Leperen, W., C.J. Keijzer, U. van Meeteren, & J. Nijsee. 2001. Induction of air embolism in xylem conduits in predefined diameter. *Journal of Experimental Botany,* 52(358): 981-991.

van Leperen, W., U. van Meeteren, & J. Nijsee. 2002. Embolism repair in cut flower stem : a physical approach. *Post Harvest Biology and Technology,* 5 : 1-14.

van Meeteren, U. 1992. Role of air embolism and low water temperature in water balance of chrysanthemum cut flower. *Scientia Holticulturae*, 51(3-4): 275-284.

van Meeteren, U., A. van Gelden, &W. van Leperen. 2005. Effect of growth conditions on post harvest rehydration ability of cut chrysanthemum flowers. *Acta Holticulturae*, 669: 287-296.

van Meeteren, U., W. van Leperen, J. Nijsee, & K. Keijzer. 2001. Processes and xylem anatomical properties involved in rehydration dynamics of cut flowers. *Acta Horticulturae*, 543: 207-215.

Vasellati, V., M. Oesterheld, D. Medan, & J. Loreti. 2001. Effects of flooding and drought on the anatomy of *Paspalum dilatatum*. *Annals of Botany*, 88: 355-360.

Vehniwal, S.S. & L. Abbey. 2019. Cut Flower Vase Life : influential factors, metabolism anorganic formulation. *Holticulture International Journal,* 3(6) : 275-281.

Venturas M.D., J.S. Sperry, & U.G. Hacke. 2017. Plant xylem hydraulics: What we understand, current research, and future challenges. *Journal of Integrative Plant Biology*, 59 (6) : 356 - 389.

Younis, A., A. Riaz, M. Qasim, F. Mansoor, F. Zulfiqar, U. Tariq, M. Ahsan, M.K. Naseem, & Z.M. Bhatti. 2017. Screening of Marigolf (*Tagetes erecta* L.) cultivars for drought stress based on vegetative and physiological characteristics. *International Journal of Food and Allied Sciences*, 3(2): 56-63.

Zieslin, N., H.C. Kohl, A.M. Kofranek, & A.H. Halevy. 1978. Changes in water status of cut roses and it's relationship to bent neck phenomenon. *Journal of American Society Horticultural Science*, 103: 176-179.

Zulfiqar, F., A. Younis, A. Riaz, F. Mansoor, M. Hameed, N.A. Akram, & Z. Abideen. 2020. Morpho-anatomical adaptations of two *Tagetes erecta* L. cultivars with contrasting responses to drought stress. *Pakistan Journal of Botany*, 52(3): 801-810.