

### DAFTAR PUSTAKA

- Ahmad, N. 1996. *Development in Plant and Soil Sciences Nitrogen Economy in Tropical Soils*. Kluwer Academic Publishers. Netherlands. pp. 1-2, 13-17.
- Ahmad, P. 2016. *Water streses and crop plants A sustainable approach volume I*. Wiley Blackwell John Wiley and Sons. UK. pp. 94-95.
- Ahmadikhah, A and A. Marufinia. 2016. Effect of reduced plat height on drought tolerance in rice. *Springer. Biotech*, 6: 220-229.
- Ai, N.S dan A.A. Lenak. 2014. Penggulungan daun pada tanaman monokotil saat kekurangan air. *JURNAL BIOSLOGOS*, 4(2): 48-55.
- Adiansyahputra, Sudarsono, K. Setiawan. 2011. Pewarisan Sifat Densitas Stomata dan Laju Kehilangan Air Daun pada kacang tanah. *Jurnal Natur Indonesia*, 14(1): 73-89.
- Aroca. R., R. Porcel and J.M. Ruiz-Lozano. 2012. Regulation of root water under abiotic stress conditions. *Journal of Experimental Botany*, 63(1): 43-57.
- Asada K (2006) Production and scavenging of reactive oxygen species in chloroplasts and their functions. *Plant Physiol* 141:391–396.
- Ashraf, M, M.Ozturk and M.S.A. Ahmad. 2010. *Plant Adaptation and Phytoremediation*. Springer Science&Business Media. London. pp. 124-126.
- Asmara, R. N. 2011. Pertumbuhan dan Hasil Sepuluh Kultivar Padi Gogo pada Kondisi Cekaman Kekeringan dan Responnya Terhadap Pemberian Abu Sekam. Prodi Agronomi. Pascasarjana. *Thesis*. Universitas Jenderal Soedirman Purwokerto.
- Baba, A., T. Gökmen, O. Günduz, K.W.F. Howard, M.J. Friedal, A. Chambel. 2010. *Effect on water resources*. Springer. London. p. 297.
- BPS. 2014. Badan Pusat Statistik: Perkiraan Penduduk Beberapa Negara 2000-2014. [www.bps.go.id](http://www.bps.go.id). Diakses pada tanggal 19 November 2016, 22: 32.
- BPTP Balitbang NTB. 2014. Beberapa Cara mempersiapkan Media Tanam, Perbenihan Tanaman Buah dan Sayur. <http://ntb.litbang.pertanian.go.id/>. Diakses pada tanggal 8 Februari 2017, 10.46.
- Balai Ketahanan Pangan dan Penyuluh Pertanian Aceh berkerjasama Balai Pengkajian Teknologi Pertanian NAD. 2009. *Budidaya Tanaman Padi*. hal. 1-20.
- Balai Penelitian Tanaman Padi. 2005. *Padi Gogo dan Pola Pengembangannya*. Departemen Pertanian.
- Balai Pengelola Alih Teknologi Pertanian. Padi Gogo Varietas Situ Bagendit. [bpatp.litbang.pertanian.go.id](http://bpatp.litbang.pertanian.go.id). Diakses pada tanggal 9 Januari 2017, pukul 09.57.
- Bhattacharya, A.K and A.M. Michael. 2006. *Land Drainage Principles, Methods, and Applications*. Vikas Publishing House Pvt Ltd. New Delhi. pp. 95-97.
- Chang, Te-Tzu and E. A. Bardenas. 1965. *The Morphological and Varietal Characteristics of The Rice Plant*. The International Rice Research Institute. Manila. p.5.



- Davatgar, N., M.R. Neishabouri, A.R. Sepaskah, A. Soltani. 2009. Physiological and morphological responses of rice (*Oryza sativa* L.) to varying water stress management strategies. *International Journal of Plant Production*, 3(4): 19-32. ISSN. 1735-6841 (Print), 1735-8043 (Online).
- Effendi, Y. 2008. Kajian Resistensi Beberapa Varietas Padi Gogo (*Oryza sativa*) Terhadap Cekaman Kekeringan. Program Studi Agronomi. *Tesis*. Pascasarjana Universitas Sebelas Maret.
- El-Afry, M.M., M.F. El-Nady, E.B. Abdelmonteleb and M.M. Salem Metwaly. 2012. Article Anatomical studies on drought-stress wheat plants (*Triticium aestivum* L.) treated with some bacterial strains. *Acta Biologica Szegediensis*. 56(2): 165-174.
- Esau, K. 1979. *Anatomy of Seed Plants. 2nd edition*. Wiley Eastern Limited. New Delhi
- Fageria, N. K. 2009. *The Use of Nutrients in Crop Plants*. CRC Press Taylor & Francis Group. USA. pp. 31-32, 91-100.
- FAO. 2017. *Natural Resources Management and Environmental Department. Chapter. 2. Soils and Water*. [www.fao.org/docrep/r4082e/r4082e03.htm](http://www.fao.org/docrep/r4082e/r4082e03.htm). Diakses pada tanggal 28 September 2017, pukul 06.00.
- Fitter, A. H and R. KM. Hay. 1981. *Fisiologi Lingkungan Tumbuhan*. UGM Press. Yogyakarta.
- Fosket, D.E. 1994. *Plant Growth and Development A Molecular Approach*. Academic Press Inc. California. p. 274.
- Gill, J. S., J. Tisdall, Sukantoro, I.G.M. Kusnarta, B. M. McKenzie. 2004. Physical properties of a clay loam soil mixed sand. *SuperSoil: 3rd Australian New Zealand Soils Conference*.
- Goyal, M.R. 2015. *Research Advances in Sustainable Micro Irrigation Sustainable Practices in Surface and Subsurface Micro Irrigation*. Apple Academic Press. USA. p.110.
- Grist, D. H. 1959. *Rice*. Longmans. London. p. 472.
- Hamim, H., S. Banom and D. Dorly. 2016. Comparison of physiological and anatomical changes of C3 (*Oryza sativa*) dan C4 (*Echinochloa crus galli* L.) leaves in response to drought stress. *Earth and Environmental Science*, 31: 1-11.
- Handreck, K and N. Black. 2005. *Growing Media for Ornamental Plants and Turf*. UNSW Press. Third Edition. Sydney. p. 11.
- Hanum, C., W.Q. Mugnisjah, S. Yahya, D. Sopandy, K. Idris, dan A. Sahar. 2007. Pertumbuhan Akar Kedelai pada Cekaman Aluminium, Kekeringan dan Cekaman Ganda Aluminium dan Kekeringan. *AGRITROP*, 26(1): 13-18.
- Heidary, R. M., R. Heidary and R. Jameiy. 2007. Study on tolerance to salinity and drought of 4 barley cultivar in germination phase. *Research and Reconstruction Magazine*, 4(74): 34-142.



- Huttunen, P., K. Kärkkäinen, G. Løe, P. Raution and J. Ågren. 2010. Leaf trichome production and responses to defoliation and drought in *Arabidopsis lyrata*., *Ann. Bot. Fennici*. 47: 199-207.
- Holler, C and Rutherglen. 2003. *Agriculture Victoria*. [www. agriculture.vic.gov.au](http://www.agriculture.vic.gov.au). Diakses pada tanggal 28 September 2017, pukul 5.59.
- Ichsan, C. N., M. Hayati dan S. P. Mashtura. 2010. Respon Kedelai Kultivar Kipas Putih dan Wilis Pada Kadar Air Tanah Yang Berbeda Terhadap Pertumbuhan dan Hasil. *Agrista*, 14(1): 25-29.
- ITIS. 2010. *Oryza sativa* L. <https://www.itis.gov>. Diakses pada tanggal 9 Januari 2017, pukul 10.56.
- Jaleel, C. H., P. Manivannan, M. Farooq, H. J. Al-Juburi, R. Somasundaram and R. Panneerselvam. 2009. Drought Stress in Plants: A Review on Morphological Characteristics and Pigments Composition. *International Journal of Agriculture&Biology*, 11(1): 100-105.
- Jensen, W.A. 1962. *Botanical Histochemistry*. Freeman and Co. San Francisco. USA.
- Jones, M.M., N. C. Turner, C. B. Osmond. 1981. *Mechanisms of drought resistance*. Academic Press. Sydney. pp. 15-37.
- Jones, M. M and N. C. Turner. 1980. Osmotic adjustment in expanding and fully expanded leaves of sunflower in response to drought deficit. *Proc. Indian. Nat. Sci. Acad.*, 3(57); 288-304.
- Jyan-Lee, Y., Chwen-Ming. Y, Kue-Wei, C. Y. Shen. 2011. Effect of Nitrogen Status on Leaf Anatomy, Chlorophyll content and canopy reflectance of paddy rice. *Botanical Studies*, 52: 295-303.
- Kadam, N.N., Xinyou Yin, P.S. Bindraban, P.C. Struik and K.Sv. Jagadish. 2015. Does Morphological and Anatomical Plasticity during the Vegetative Stage Make Wheat More Tolerant of Water Deficit Stress Than Rice? *Plant physiology*. 167: 1389-1401.
- Kee-Wong, K. F. Ng. 2002. *The Effect of Pottasium on Growth, Development, Yield and Quality of Sugarcane*. Sugar Industry Research. Institute Redit, Mauritius. pp. 430-444.
- Kirkham, M. B. 2004. *Priciples of Soils and Plant Water Relations Second Edition*. Academic Press Elsevier. USA. p. 280
- Kodioglu, A and R. Terzi. 2007. A Dehydration Avoidance Mechanism Leaf Rolling. *Botanical review*. 73(4): 290-302.
- Kodoatie, R. J dan R. Sjarief. *Tata Ruang Air*. 2010. Penerbit Andi Offset. Yogyakarta. hal. 175.
- Kosma, D. K., B. Mourdenx, A. Bernard, E. P. Parsons, S. Lü, J. Joubès and M. A. Jenks. 2009. The Impact of Water Deficiency on Leaf Cuticle Lipids of *Arabidopsis*. *Plant Physiology*, 151. pp. 1918-1929.



- Koul, B.G. 2004. *Breeding for Drought Tolerance in Sesame (*Sesamu indicum* L.) in Sudan*. Cuvillier Verlag Gottigen. German. pp. 12-13.
- Kristofferson, A. O and H. Riley. 2005. Nutrient Cyling in Agroecosystem. *Springer*, 72: 135-146.
- Kurniasih, B and F. Wulandhany. 2009. Penggulungan daun pertumbuhan tajuk dan akar beberapa varietas padi gogo pada cekaman air yang berbeda. *Agrivita*, 31(2): 118-128.
- Liu, F., Q. Liu, X. Liang, H. Huang and S. Zhang. 2005. Morphological, anatomical, and physiological assesment of ramie [*Boehmeria nivea* (L.) Gaud]. *Genetic Resources and Crop Evolution*, 52: 497-506.
- Maiti, R., P. Satya, D. Rajkumar and A. Ramaswamy. 2012. *Crop Plant Anatomy*. CABI. UK. pp. 47-50.
- Makarim, A. K. dan E. Suhartatik. Morfologi dan Fisiologi Tanaman Padi. Balai Besar Penelitian Tanaman Padi. diakses [www.litbang.pertanian.go.id](http://www.litbang.pertanian.go.id) pada tanggal 9 Januari 2017, pukul 11.35. hal. 296-308.
- Mapegau. 2006. Pengaruh Cekaman Air terhadap Pertumbuhan dan Hasil Tanaman Kedelai (*Glycine max* L. Merr). *Jurnal Ilmiah Pertanian KULTURA*, 41(1): 43-51.
- McCutcheon, S.C and J.L. Schnoor. 2003. *Phytoremediation Transformation and Control of Contaminants*. Wilet-Interscience a John Wiley&Sons, Inc, Publication. New Jersey. p. 268.
- Mickelson, H. R and L.B.Péna-Valdinia. 1996. Developing Drought and Low N Tolerance Maize. Proceedings of a Symposium March: 25-29. CIMMYT. Mexico. p. 216.
- Morita, S and K. Nemoto. 1995. *Structur and Function of Roots. Proceedings of the Fourth International Symposium on Strcture and Function of Roots*. Chapter. Morphology and anatomy of rice with special reference to coordinate in organo and histogenesis (in Baluska, F., M. Ciamparova, O. Gasparikova and P. W. Barlow). Springer-Science+Business Media. BV. Slovakia. pp. 75-86.
- Mostajaren, A and V. Rahimi-Eichi. 2008. Drought Stress Effect on Root Characteristics of Rice Cultivars (*Oryza sativa* L.). *Pakistan Journal of Biological Sciences*, 11(18): 2173-2183. ISSN: 1028-8880.
- Nath, T.N. 2014. Soil Texture and Total Organic Matter Content and Its Influences on Soil Water Holding Capacity of Some Selected Tea Growing Soils in Sivasagar District of Assam, India. *Int. J. Chem. Sci*, 12(4): 1419-1429.
- Nugroho, H., Purnomo dan I. Sumardi. 2002. *Struktur dan Perkembangan Tumbuhan*. Penebar Swadaya. Jakarta. hal. 6, 10, 17, 113.
- Oertli, J.J., S.H. Lips, M. Agam. 1990. The Streight of Sclerophllous cells to resist collapse due to negative turgor pressure. *Acta Oecol*, 11: 281-289.
- O'Brien, T. P and M. E. McCully. 1981. *The Study of Plant Structure: Principles and Selected Methods*. Termatcarphi Pty, Ltd. Melbourne, Australia.



- O'Toole, J. C. 1982. *Adaptation of rice to drought-prone environment*. IRRI. Los Banos, Filipina. pp. 195-213.
- Palupi, E. R dan Y. Dedywiryanto. 2008. Kajian karakter toleransi cekaman kekeringan pada empat genotipe bibit kelapa sawit (*Elaeis guineensis* Jacq). *Bul Agron.*, 36(1): 24-32.
- Parker, R. 2009. *Plant & Soil Science Fundamentals and Applications*. Delmar Cengage Learning. New York. pp. 102-103.
- Pidwirny, M. 2014. *Understanding Physical Geography Our Planet*. Earth Publishing. Canada. pp. 4-5.
- Purnomo dan Purnamawati, H. 2007. *Budidaya 8 Jenis Tanaman Pangan Unggul*. Penebar Swadaya. Jakarta. Hal. 10-12.
- Robert, K. 2007. *Handbook of Plant Science*. John Wiley and Sons Ltd. UK. pp. 93, 95.
- Rost, T. 1997. *Oryza sativa*. <http://www-plb.ucdavis.edu/labs/rost/Rice/Stems/internal.html>. Diakses pada tanggal 8 Februari 2017, 9.08.
- Schultz, H.R and Matthews. M. A. 1998. Resistance to water transport in shoot of *Vitis vinifera* L. *Plant Physiol*, 88: 718-724.
- Seago, J.L. Jr., L.C. Marsh, K. J. Stevens, A. Soukup, O. Votrubova and D. E. Enstone. 2005. A re-examination of the root cortex in wetland flowering plant with respect to aerenchyma. *Annals of Botany*, 96: 565-579.
- Sinha, R. K. 2004. *Modern Plant Physiology*. Alpha Science International Ltd. India. pp. 65-67.
- Siregar, H. 1981. *Budidaya tanaman padi di Indonesia*. PT. Sastra Hudaya. Jakarta. hal. 320.
- Smith, C. W and R. H. Dilday. 2003. *Rice: Origin, History, Technology and Production*. Chapter 1.1. Origin, Domestication, and Diversification (Te-Tzu Chang). John Wiley&Sons, Inc. Canada. pp. 4,8,12.
- Sokoto, M. B and A. Muhammad. 2014. Response of Rice Varieties to Water stress in Sokoto, Sudah Savannah, Nigeria. *Journal of Biosciences and Medicines*. 2: 68-78.
- Steffans, B., T. Geske, M. Saunter. 2010. Aerenchyma formation in the stem and its promotion by H<sub>2</sub>O<sub>2</sub>. *New Phytologist*, 190: 369-378.
- Striker, G.G. 2012. Flooding stress on plants: anatomical, morphological and physiological responses. Botany. Dr. John Mworia (Ed), ISBN: 978-953-51-0355-4, *InTech*. <http://www.intechopen.com/books/botany/flooding-stress-on-plants-anatomical-morphological-andphysiological-responses>.
- Suardi, D. 2002. Perakaran Padi Dalam Hubungannya Dengan Toleransi Tanaman Terhadap Kekeringan dan Hasil. *Jurnal Litbang Pertanian*, 21(3): 100-108.



- R. 2014. Pengaruh Cekaman Kekeringan Terhadap Respon Fisiologis Perkecambahan Benih Kacang Tanah (*Arachis hypogaea* L). *MEDIAGRO*, 10(2): 32-44.
- Sujinah dan A. Jamil. 2016. Mekanisme Respon Tanaman Padi terhadap Cekaman Kekeringan dan Varietas Toleran. *Iptek Tanaman Pangan*, 11(1): 1-8.
- Suprihatno, B., A. A. Daradjat, Satoto, Baehaki, I. N. Widiarta, A. Setyono, A. D. Indrasari, O.S. Lesmana dan H. Sembiring. 2009. *Deskripsi Varietas Padi*. Balai Besar Penelitian Tanaman Padi Badan Penelitian dan Pengembangan Pertanian. Sukamandi.
- Supriyanto, B. 2013. Pengaruh Cekaman Kekeringan Terhadap Pertumbuhan dan Hasil Padi Gogo Lokal Kultivar Jambu. *Jurnal AGRIFOR*, XII(1): 77-82. ISSN: 1412-6885.
- Sutikno. 2014. *Petunjuk praktikum mikroteknik tumbuhan*. Fakultas Biologi. Universitas Gadjah Mada. Yogyakarta. Hal. 7-8.
- Taiz, L and E. Zeiger. 2002. *Plant Physiology*. Sinauer Associates. Sunderland. pp. 67, 70.
- Tubur, H. W., M. A. Chozin, E. Santosa, dan A. Junaedi. 2012. Respon Agronomi Varietas Padi terhadap Periode Kekeringan pada sistem sawah. *J. Agron. Indonesia*, 40(3): 167-173.
- Twumasi, P., W. Van Ieperen, E.J. Woltering, A.M.C. Emons, J.H. N. Schel, J.F. H. Snel, U. van Meeteren and D. Van Marwijk. 2005. *Acta Hort*, 669. Proc. VIII<sup>th</sup> IS Postharvest Phys. Ornamentals Eds. N. Marissen et al.
- Turner, N. C. 1979. *Drought resistance and adaptation to water deficits in crop plant*. John Willey and Sons. New York. pp. 344-372.
- Utama, Z.H. 2015. *Budidaya Padi pada Lahan Marginal Kiat Meningkatkan Produksi Padi*. CV. Andi Offset. Yogyakarta. hal. 2-7
- Yoshida, S. 1981. *Fundamental of Rice Crop Science*. International Rice Research Institute. Filipina. pp. 1-26.
- Zou, L., X. Sun, Z. Zhang, P. Liu, J. Wu, C. Tian, J. Qiu, T. Lu. 2011. Leaf rolling controlled by the homeodomain leucine zipper class IV gene *Roc5* in rice. *Plant Physiology*. 156: 1589-1602.