

DAFTAR PUSTAKA

- AAK, 1990. *Budidaya Tanaman Padi*. Aksi Agraris Kanisius, Yayasan Kanisius Yogyakarta.
- Alberto, M.C.R., Wassmann, R., Hirano, T., Miyata, A., Hatano, R., Kumar, A., Padre, A., Amante, M., 2011. *Comparisons of energy balance and evapotranspiration between flooded and aerobic rice fields in the Philippines*. Agric. Water Manage. 98 (9), 1417–1430.
- Ali, M.H., Abustan, I., & Puteh, A.B. 2013. Irrigation management strategies for winter wheat using aquacrop model. *Journal of Natural Resources and Development*, 3, 106-113.
- Anonim¹. 1999. *Crop Evapotranspiration-Guideline for Computing Crop Water Requirement*. FAO Corporate Document Repository. (www.fao.com).
- Anonim². 2010. *Penetapan System of Rice Intensification (SRI) dalam Budidaya Padi di Jatim*, <http://www.umkm.online.com>, diakses Rabu, 4 April 2018.
- Anonim³. 2010. *SRI (System of Rice Intensification) dan Tarik Ulur Ketahanan Pangan Nasional*, <http://blog.benwas.djarum.com>, Sabtu diakses 31 Maret 2018.
- Anugerah IS, Sumedi, Wardana IP. 2009. *Gagasan dan Implementasi System of Rice Intensification (SRI) dalam Kegiatan Budidaya Padi Ekologis (BPE)*. Analisis Kebijakan Pertanian. Vol.6, No.1, Hlm. 75 – 99.
- Aziez, A. F. 2016. *Analisis Pertumbuhan Varietas Lokal dan Unggul Padi Sawah Pada Budidaya secara Organik*. Fakultas Pertanian Universitas Tunas Pembangunan. Surakarta.
- Baehaki. 2010. *Deskripsi Varietas Padi*. Balai Besar Tanaman Padi. Subang.
- Berkelaar, D. 2001. *The System of Rice Intensification SRI*, ECHO, Inc. 17391 Durrance Rd. North Ft. Myers FL. 33917 USA.
- Blum, A. 2005. *Drought resistance, water-use efficiency and yield potential - Are they compatible, dissonant, or mutually exclusive? Australia*.
- Bolstad, P.V., Gower, S. T., 1990. *Estimation of leaf area index in fourteen southern Wisconsin forest stands using a portable radiometer*. Tree Physiol., 7: 115-124.
- Bouman, B A M. 2001. *Water-efficient management strategies in rice production*. Int Rice Res Note, 26(2): 17–22.
- Bouman, B A M, Tuong T P. 2001. *Field water management to save water and increase its productivity in irrigated lowland rice*. Agric Water Manag, 49(1): 11–30.
- Brar, D. S. and Khush, G. S. 2003. *Utilization of wild species of genus Oryza in rice improvement*. In: Nanda, J.S. and Sharma, S. D. (eds.), Monograph on Genus Oryza, pp. 283-309.
- Chen, J.M., Black, T.A., 1992. *Defining leaf-area index for non-flat leaves*. Plant Cell Environ. 15 (4), 421–429.

- Darvishzadeh, R., Skidmore, A., Schlerf, M., Atzberger, C., Corsi, F., & Cho, M. 2008. *LAI and chlorophyll estimation for a heterogeneous grassland using hyperspectral measurements*. ISPRS Journal of Photogrammetry and Remote Sensing, 63, 409–426.
- Daradjat. 2010. *The Formation of varieties preëminent type new Fatmawati*. Journals agricultural research. Vol. 25 No. 1 : 1-7.
- Dirgahayu, D., 2005. Model Pendugaan Indeks Luas Daun Tanaman Padi Menggunakan Data MODIS. PIT MAPIN XIV, ITS, Surabaya.
- Doonrenbos, J. & Pruitt, W.O. 1977. *Guideline for Predicting Crop Water Requirements*. Roma: Food and Agriculture Organization.
- Dwidjopuspito, T. 1986. *Soil Moisture Prediction*. Disertasi. Sub Mitted to the Faculty of the Graduate School University of the Philippines at Los Banos, Philippine.
- Fuadi, N.A., Purwanto, M. J., Tarigan S. D. 2016. *Kajian Kebutuhan Air dan Produktivitas Air Padi Sawah dengan Sistem Pemberian Air secara Sri dan Konvensional Menggunakan Irigasi Pipa*. Institut Pertanian Bogor.
- Haboudane, D., Miller, J. R., Pattey, E., Zarco-Tejada, P. J., & Strachan, I. B. 2004. *Hyperspectral vegetation indices and novel algorithms for predicting green LAI of crop canopies: modeling and validation in the context of precision agriculture*. Remote Sensing of Environment, 90, 337–352.
- Hadipoentyanti EM, EA Hadad, Hermanto. 1994. *Peran intensitas radiasi surya dan indeks luas daun terhadap produksi maksimal tanaman*. Buletin PERHIMPI. 2:49 –52.
- Hiroka, Y., Homma, K., Maki, M., Sekiguchi, K., Shiraiwa, T., Yoshida, K., 2015. *Evaluation of the dynamics of the leaf area index (LAI) of rice in farmer's fields in Vientiane Province, Lao PDR*. J. Agric. Meteorol. (in press).
- Huda, M. N., Harisuseno, D., & Priyantoro, D. 2012. *Kajian Sistem Pemberian Air Irigasi sebagai Dasar Penyusunan Jadwal Rotasi pada Daerah Irigasi Tumpang Kabupaten Malang*. Jurnal Teknik Pengairan, 3(2), 221-229.
- Islami, T. dan W.H. Utomo, 1995. *Hubungan Tanah, Air dan Tanaman*. IKIP Semarang Press, Semarang.
- Jangpromma, N., Thammasirirak, S., Jaisil, P. dan Songsri, P. 2012. *Effects of drought and recovery from drought stress on above ground, root growth and water use efficiency in sugarcane (Saccharum officinarum L.)*. Australian Journal of Crop Science 6(8): 1298- 1304.
- Kuswara. 2003. *Dasar Gagasan dan Praktek Tanam Padi Metode SRI (System Rice Intensification)-Pertanian Ekologis*. Yayasan FIELD Indonesia.
- Lang, A.R.G., McMurtrie, R.E. and Benson, M.L., 1991. *Validity of surface area indices of Pinus Radiata estimated from transmittance of the sun's beam*. Agric. For. Meteorol., 57: 157-170.
- Linsey, R.K, & Franzini, J.B. 1979. *Water Resources Engineering*. New York: Mc Graw Hill Book Co.
- Maire, G., Marsden, C., Verhoef, W., Ponzoni, F. J., Lo Seen, D., Bégué, A., et al. 2011. *Leaf area index estimation with MODIS reflectance time series and model inversion during full rotations of Eucalyptus plantations*. Remote Sensing of Environment, 115, 586–599.

- Monteith, J. 1969. *Light Interception and Radiative Exchange in Crop Stands*. J. Agronomy, Vol 185 [internet]. University of Nebraska : Lincoln [diunduh 23 Juni 2013]. Tersedia pada : <http://digitalcommons.unl.edu/agronomy-facpub/185>.
- Monteith JL. 1976. *Vegetation and the Atmosphere*. Volume-2, *Case Studies*. New York : Academic Press.
- Morishima, H. 1984. *Species relationships and the search for ancestors*. In: Tsunoda, S. and Takahashi, N.(ed.), *Biology of Rice*: 3-30, Japan. Sci. Soc. Press, Tokyo/Elsevier, Amsterdam.
- Mutakin J. 2007 *Budidaya dan Keunggulan Padi Organik Metode SRI (System of Rice Intensification)*. Garut Jawa Barat.
- Myneni RB and Williams DL. 1994. *On the Relationship between FAPAR and NDVI*. Remote Sens. Environ. 49:200-211.
- Nasution.Y, 2014. *Penentuan Nilai Evapotranspirasi Dan Koefisien Tanaman Padi Varietas IR64(Oryzasativa.)* Di Rumah Kaca Fakultas Pertanian Universitas Sumatera Utara, Universitas Sumatera Utara, Medan.
- Nemani, R. R., Running, S. W., 1998. *Measuring fractional cover and leaf area index in arid ecosystems: digital camera, radiation transmittance, and laser altimetry methods*. Remote Sens. Environ., 74: 45-57.
- Peet, M M., Teare I D. 1983. *Crop Water Relation*. New York : Wiley
- Pitojo, Setijo. 2003. *Bertanam Padi Sawah Tabela*. Penebar Swadaya. Jakarta.
- Pu, R., & Gong, P. 2004. *Wavelet transform applied to EO-1 hyperspectral data for forest LAI and crown closure mapping*. Remote Sensing of Environment, 91, 212–224.
- Purba, J. H. 2011. *Kebutuhan dan cara pemberian air irigasi untuk tanaman padi sawah (Oryza sativa L.)*. Jurnal Sains dan Teknologi, 10, 145-155.
- Prabowo, A., & Wiyono J. 2006. *Pengelolaan sistem irigasi mikro untuk tanaman hortikultura dan palawija*. Agricultural Engineering, 4(2), 89.
- Rizal F., Alfiansyah, & Rizalihadi, M. 2014. *Analisis perbandingan kebutuhan air irigasi tanaman padi metode konvensional dengan metode SRI organik*. Jurnal Teknik Sipil, 3(4), 67-76.
- Romero, R., Muriel, J. L., García, I., & de la Pena, D. M. 2012. *Research on automatic irrigation control: state of the art and recent results*. Agricultural Water Management, 114, 59-66.
- Setiawan, W., Rosadi, B., & Kadir, M.Z. 2014. *Respon pertumbuhan dan hasil tiga varietas kedelai (Glicine max) pada beberapa fraksi penipisan air tanah tersedia*. Jurnal Teknik Pertanian, 3(3), 245-252.
- Siregar, V. P., Wahyu, Sri Harini, Syukri M. Nur, Djokosoegito, M., Sitanggang, G-, I. Setyawan, Saptajadi, D. P. Nugroho, I- Setiawan, Dirgahayu, D., Mujiyanto, Siregar, D. F, 1999. *Konstruksi Prediksi Produksi Padi Beniasarkan Model Spasial*, Laporan Akhir, Kegiatan Proyek Teknologi Inventarisasi Sumber Daya Alam ftISDA)-BPPT, SEAMEO BIOTROP, Bogor.
- Siswanto. 2006. *Evaluasi Sumber Daya Lahan*. Penerbit UPN Press: Surabaya.
- Smith, F. W., Sampson, D. A., Long, J. N., 1991. *Comparison of leaf are index estimates from tree allometrics and measured light interception*. For. Sci.,

37: 1682-1688.

- Sofiuddin. H. A., L. M. Martief., B. I. Setiawan dan C. Arif, 2012. *Evaluasi Koefisien Tanaman Padi Berdasarkan Konsumsi Air Pada Lahan Sawah*. Institut Pertanian Bogor.
- Soil Survey Staff. 1990. *Kunci Taksonomi Tanah*. Edisi Kedua Bahasa Indonesia, 1999. Pusat Penelitian Tanah dan Agroklimat. Badan Penelitian dan Pengembangan Pertanian.
- Songsri, P., Jogloy, S., Holbrook, C.C., Kesmala, T., Vorasoot, N., Akkasaeng, C. dan Patanothai, A. 2009. *Association of root, specific leaf area and SPAD chlorophyllmeter reading to water use efficiency of peanut under different available soil water*. Agriculture Water Management **96**:790-798.
- SOSBAI (Irrigated Rice Society of Southern Brazil), 2014. *Irrigated Rice: Technical Research Recommendations for Southern Brazil, thirtieth ed.* SOSBAI (Irrigated Rice Society of Southern Brazil), Santa Maria (in Portuguese).
- Suprihatno, B, A. A. Daradjat, Satoto, S. E. Baehaki., Suprihanto, A. Setyono, S.D. Indrasari, I.P. Wardana, H. Sembiring. 2010. *Deskripsi Varietas Padi*. Balai Besar Tanaman Padi. Subang.
- Supijatno. 2012. *Evaluasi Konsumsi Air Beberapa Genotipe Padi untuk Potensi Efisiensi Penggunaan Air*. J. Agron. Indonesia 40 (1) : 15 - 20 (2012).
- Suryani, R. 1993. *Karakteristik Beberapa Galur Kedelai (Glycine max (L) Merr.) pada Berbagai Tingkat Ketersediaan Air Tanah [skripsi]*. Bogor (ID) : Institut Pertanian Bogor.
- Suryanti. 2015. *Kebutuhan Air, Efisiensi Penggunaan Air Dan Ketahanan Kekeringan Kultivar Kedelai*. 35(1) 114-120.
- Sutejo, M. M. Kartasapoetra dan A. G. Sastroamodjo. 1999. Pengantar Ilmu Tanah. PT. Rineka Cipta. Jakarta
- Syukri M. 1997. *Konstruksi Prediksi Produksi Padi Benasarkan Model Spasial*, Laporan Akhir, Kegiatan Proyek Teknologi Inventarisasi Sumber Daya Alam (TISDA)-BPPT, SEAMEO BIOTROP, Bogor.
- Turner DP, Cohen WB, Kennedy RE, Fassnacht KS, Briggs JM. 1999. Relationships between leaf area index and Landsat TM spectral vegetation indices across three temperate zone sites. Remote Sensing of Environment. 70: 52-68.
- Uphoff, N. 2009. *Presentation for conference on raising agricultural productivity in the tropics : Biophysical challenges for technology and policy: The system of rice intensification developed in Madagascar*.
- Uphoff N dan Fernandes E. 2003. *Sistem Intensifikasi Padi Tersebar Pesat*. Salam. No.3
- Vaughan, D.A. 1994. *The wild relatives of rice*. International Rice Research Institute, Manila.
- Vergara, C. 1995. *Remote estimation of crop chlorophyll content by means of high-spectral-resolution reflectance techniques*. Agronomy Journal, 103, 1834-1842.
- WASSAN. 2006. *System of Rice Intensification: Weeders, a reference compendium*. Hyderabad: Charita Impression. www.wassan.org

- Watson, D. J., 1947. *Comparative physiological studies in the growth of field crops. I: Variation in net assimilation rate and leaf area between species and varieties, and within and between years.* Ann. Bot., 11: 41-76.
- Wenge, Ni, Xiaowen L, Curtis EW, Jean-Louis R, Robert ED. 1997. *Transmission Of Solar Radiation In Boreal Forest : Measurement And Models.* Journal of Geophysical Research. 102:29,555-29,566.
- Won J G, Choi J S, Lee S P, Son S H, Chung S O. 2005. *Water saving by shallow intermittent irrigation and growth of rice.* Plant Prod Sci, 8(4): 487–492.
- Yanhong T. 1997. *Light.* Di dalam : Prasad MNV, editor. *Plant Ecophysiology.* New York : John Wiley & Sons, Inc; Hlm 3- 37.
- Yoshida, S. 1981. *Fundamental of rice Crop Science.* International Rice Research Institute. Los Banos. Philippines.
- Yuwono, B.D. 2015. *Analisis Produksi Padi Dengan Penginderaan Jauh dan Sistem Informasi Geografis di Kota Pekalongan.* Skripsi. Universitas Diponegoro. Semarang.