



DAFTAR PUSTAKA

- Abbott LK, Robson AD. 1977. Growth stimulation of subterranean clover with vesicular-arbuscular mycorrhizas. *Aust. J. Agric. Res.* 28: 639-649.
- Abdullah L dan Suharlina. 2010. Herbage yield and quality of two vegetative parts *Indigofera* at different time of first regrowth defoliation. *Med. Pet.* 33:44-49.
- Abdullah L, 2010, Herbage production and quality of shrub indigofera treated by different concentration of foliar fertilizer. *Media Peternakan*, Desember 2010, hlm. 169-175.
- Adams RS. 1975. Variability in mineral and trace element content of dairy cattle feeds. *J.of Dairy Sci.* 58, 1538 – 1548.
- Addison HJ. 2003. Shade tolerance of tropical forage legumes for use in agroforestry systems. [PhD thesis]. James Cook University, Australia.
- Allaby M. 2005. *A Dictionary of Ecology*. Oxford University Press Inc, New York.
- Andrade D, Mihara KL, Linderman RG, Bethlenfalvay GJ. 1998. Soil aggregation status and rhizobacteria in the mycorrhizosphere. *Plant and Soil.* 202:89-96.
- Andrews DJ dan Kassam AH. 1976. The importance of multiple cropping in increasing world food supplies. Pp. 1-10 in in R.I. Papendick, A. Sanchez, G.B. Triplett (Eds.), *Multiple Cropping*. ASA Special Publication 27. American Society of Agronomy, Madison, WI
- Barbar SA. 1984. Soil nutrient availability. A mechanistic roots under field conditions. *Agron. J.* 70:457-461.
- Bechtol T, Rita M. 2009. *Handbook of Natural Colorant*. Great Britain: John Willey dan Sons LTd.
- Bethlenfalvay GJ, Schreiner RP, Mihara KL, McDaniel H. 1996. Mycorrhizae, biocides, and biocontrol: 2. Mycorrhizal fungi enhance weed control and crop growth in a soybean-cocklebur association treated with the herbicide bentazon. *Applied Soil Ecology* 3: 205-214.
- Bogdan AV. 1977. *Tropical Pasture and Fodder Plants*. Longman Inc., New York. pp. 205-212
- Bolan NS. 1991. A critical review on the role of mycorrhizal fungi in the serapan of phosphorus by plants. *Plant and soil* 134: 189-207. Kluwer academic publishers. Printed in the Netherlands. Plso 8782.

Hak Cipta Dilindungi Undang-Undang

1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber:
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar IPB.
2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin IPB.



- Brink M. 2006. *Setaria italica* (L.) P. Beauv. Record from Protabase. Brink. M. dan Belay. G. (Editors). PROTA (Plant Resources of Tropical Africa / Ressources végétales de l'Afrique tropicale). Wageningen. Netherlands. [terhubung berkala] <http://database.prota.org/search.htm>. [25 Januari 2010].
- [BPT] Balai Penelitian Tanah. 2005. Analisis Kimia Tanah, Tanaman, Air dan Pupuk. Petunjuk Teknis. Bagian Pengembangan Penelitian dan Pertanian. Departemen Pertanian.
- [CFF] California Fertilizer Foundation. 2009. Plant Nutrients–Nitrogen [terhubung berkala]. www.cfaitc.org. [12 Januari 2011].
- Carvalho MCS, Piccolo MC, Cerri CC. 1998. Net nitrogen mineralization and nitrification rates in a degraded pasture subjected to rehabilitation methods. Centro de Energia Nuclear na Agricultura, Avenida Centenário 303, Caixa Postal 96, CEP 13416-000, Piracicaba, SP, Brazil.
- Cook BG. 1992. *Arachis pintoii* Krap and Greg., nom. pud., PROCEA, 4. Forages. Pudoc Science Publishing, Wageningen. P. 48-50.
- Cooper DR dan Schindler PS. 2003. *Business Research Method* 8th Ed. International Edition. McGraw Hill, New York.
- Davidson I. 1994. The responses of plants to non-uniform supplies of nutrients. *New Phytologist* 127: 635–674
- Davidson IA dan Robson MJ. 1985. Effect of nitrogen supply on the grass and clover components of simulated mixed swards grown under favourable environmental conditions I. Carbon assimilation and utilization. *Annals of Botany* 55: 685-695
- Devendra C dan Thomas D. 2002. Smallholder farming system in Asia. *Agricultural System* 71: 17-25
- Devendra C. 2007. Perspective on animal production system in Asia. *Livestock Science* 106: 1-18
- Dias-Filho MB. 2000. Growth and biomass allocation of the C₄ grasses *Brachiaria brizantha* and *B. humidicola* under shade. *Pesq, Agropec, Bras, Brasília*, v 35, n 12, p 2335-2341. [02 Februari 2007].
- Duponnoisa R, Colombet A, Hien V, Thioulouse J. 2005. The mycorrhizal fungus *Glomus intraradices* and rock fosfat amendment influence plant growth and microbial activity in the rhizosphere of *Acacia holosericea*. *Soil Biology dan Biochemistry*. 37:1460–1468.
- Eckert D. 2009. Efficient fertilizer use manual - Nitrogen. School of Natural Resources Ohio State



- Espinoza L, Slaton N, Mozaffari M. 2007. Understanding the numbers on your soil test report. cooperative extension service. [terhubung berkala] <http://www.uaex.edu> . [17 Januari 2011].
- FAO. 1970. Amino-acid content of foods and biological data on proteins. FAO Nutrition Studies No 24. Rome. Italy. p. 285.
- [FAO] Food and Agricultural Organization. *Axonopus compressus* (Swartz) Beauv. [terhubung berkala] <http://www.fao.org/ag/AGP/AGPC/doc/GBASE/data/Pf000180.HTM> [15 September 2009]
- [FAO] Food and Agricultural Organization. *Setaria italica* (L.) Beauv. [terhubung berkala] <http://www.fao.org/ag/AGP/agpc/doc/GBASE/DATA/PF000314.HTM>. [15 September 2009]
- Gardner FP, Pearce RB, Mitchell RL. 1991. *Fisiologi Tanaman Budidaya*. Susilo H, penerjemah; Indonesia: UI Press. Terjemahan dari: *Physiologi of Crop Plants*.
- Gastal F dan Durand JL. 2000. Effects of nitrogen and water supply on N and C fluxes and partitioning in defoliated swards. Di dalam: Lemaire G, Hodgson J, Moraes A. de, Nabinger C, Carvalho PC de F., editor. *Grassland Ecophysiology and Grazing Ecology* (eds) CAB International.
- Habte M dan Manjunath A. 1987. Soil solution phosphorus status and mycorrhizal dependency in leucaena leucocephalat. *Applied and Environmental Microb.* p. 797-801
- Hamel C. 2004. Impact of arbuscular mycorrhizal fungi on N dan P cycling in the root zone. *Can. J. Soil. Sci.* p 383-395
- Harris. 2006. The phosphorus cycle. Division of Cooperative Resources International [terhubung berkala] <http://agsource.crinet.com/page2576/ThePhosphorusCycle>.
- Hassen A, Rethman N. F. G, van Niekerk WA, Tjelele TJ. 2007. Influence of season/year and species on chemical composition and in vitro digestibility of five *Indigofera* accessions. *Animal Feed Sci and Tech* 136. p 312-322.
- Herodian S. 2008. Pengembangan buru hotong [*Setaria italica* (L.) Beauv.] sebagai sumber pangan pokok alternatif. *Majalah Pangan*. [terhubung berkala]. http://www.bulog.ac.id/data/doc/WIB-Pengembangan_Buru_Hotong. Pdf. [23 Oktober 2009].
- Hirata M dan Pakiding W. 2001. Tiller dynamics in a bahia grass (*Paspalum notatum*) pasture under cattle grazing. *Tropical Grasslands J* . Volume 35. 151–160



- Hirata M dan Pakiding W. 2002. Dynamics in tiller weight and its association with herbage mass and tiller density in a Bahia grass (*Paspalum notatum*) pasture under cattle grazing. *Trop. Grasslands J.* Volume 36. 24–32.
- Hirata M, Sugino A, Ogura S. 2009. Accessibility and availability of individual leaves on a tiller in bahiagrass (*Paspalum notatum* Flüggé) swards: Effects of nitrogen fertilizer and defoliation intensity. *Journal compilation Grassland Science* 55: 155–163. Blackwell Publishing Ltd.
- Hirata M. 2000. Effect of nitrogen fertilizer rate and cutting height on leaf appearance and extension in Bahia grass (*Paspalum notatum*) swards. *Tropical Grassland J.* Volume 34, 7 -13.
- Hirata M. 1993. Response of Bahiagrass (*Paspalum notatum* Flugge) sward to cutting height. *J. Japan Grassland. Sci.* 39 (2):196-205.
- Hodgson J. 1990. *Grazing Management. Science into Practice.* Longman Group, UK Ltd.
- Intercrop. 2002. Intercropping of cereals and grain legumes for increased production, weed control, improved product quality and prevention of N-losses in European organic farming systems. [terhubung berkala]. <http://www.intercrop.dk/General.htm>. [17 Nov 09] [23 September 2009]
- Ipinmoroti RR, Takeshi W, Osamu I. 2008. Effect of *Brachiaria humidicola* root exudates. rhizosphere soils. moisture and temperature regimes on nitrification inhibition in two volcanic ash soil of Japan. *World Journal of Agricultural Science* 4 (1):106-113.
- Islam MA dan Hirata M. 2005. Leaf appearance, death and detachment, and tillering in centipedegrass (*Eremochloa ophiuroides* (Munro) Hack.) in comparison with bahiagrass (*Paspalum notatum* Flüggé): A study at a small sod scale. *Grassland Science J*, **51**:121–127. Blackwell Publishing Ltd
- Kabirun S. 2002. Tanggapan padi gogo terhadap inokulasi cendawan mikoriza arbuskula dan pemupukan fosfat di entisol. *Jurnal Ilmu Tanah dan Lingkungan* Vol 3: 49-56.
- Kang SC, Pandey P, Khillons R, Maheshwari DK. 2008. Process of rock phosphate solubilization by *Aspergillus* sp PS 104 in soil amended medium. *J. of Environmental Biol.*, 29(5) 743-746.
- Karanja NK, Mwendwa KA, Okalebo JR, Kahindi JHP. 2004. Effect of fosfat rock fertilization and arbuscular mycorrhizae (AM) inoculation on growth and nodulation of agroforestry tree seedlings. *West African Journal of Applied Ecology.* Vol 6.



- Kephart KD dan Buxton DR. 1993. Forages quality response of C3 and C4 perennial grasses to shade. *Crop Science*, Madison, v.33, p.831-837, 1993.
- Kobus J. 1962. The role of microorganisms in the transformation of phosphoric compounds in the soil. *Acta Microbiol. Pol* 11: 155-262
- Koske RE, Gemma JN. 1989. A modified procedure for staining roots to detect VA mycorrhizas. *Mycol. Res.* 92: 486-505.
- Krishiworld (The Pulse of Indian Agriculture). 2006. Field Crops of [*Setaria italica* (L.) Beauv. [terhubung berkala]. <http://www.krishiworld.com/startsearch.asp>. [23 Oktober 2009].
- Kucey RMN, Jansen HH, Leggett ME. 1989. Microbially mediated increases in plant-available phosphorous. *Adv Agron* 42: 199-228.
- Latifa IC dan Anggarwulan E. 2009. Nitrogen content, nitrate reductase activity, and biomass of kimpul (*xanthosoma sagittifolium*) on shade and nitrogen fertilizer variation. *Bioscience* v 1, n 2: 65-71.
- Li Y, Ran W, Zhang R, Sun S, Xu G. 2009. Facilitated legume nodulation, phosphate uptake and nitrogen transfer by arbuscular inoculation in an upland rice and mung bean intercropping system. *Plant Soil* 315:285–296.
- Liu A, Hamel C, Begna SH, Ma BL, Smith DL. 2003. Soil phosphorus depletion capacity of arbuscular mycorrhizae formed by maize hybrids. *Can. J. Soil. Sci.* p: 337-341.
- Manidool C. 1992. *Axonopus compressus* (Swartz) P. Beauv. In: 't Mannetje, L. dan Jones, R.M. (Editors): Plant Resources of South-East Asia No 4. Forages. Pudoc-DLO, Wageningen, the Netherlands. pp. 53-54
- Manjunath A, Hue NV, Habte M. 1989. Response of *Leucaena leucocephala* to vesicular-arbuscular mycorrhizal colonization and rock fosfat fertilization in an Oxisol. *Plant and Soil* 114: 127-133.
- Marschner H. 1999. Mineral Nutrition of Higher Plants. 2nd Ed. United Kingdom: Academic Press.
- Martin FM, Perotto S, Bonfante P. 2007. Mycorrhizal fungi: A fungal community at the interface between soil and roots. In: The Rhizosphere. Biochemistry and Organic Substances at the Soil-Plant Interface. CRC Press. New York.
- Marx ES, Hart J, Stevens RG. 1999. Soil Test Interpretation Guide. Oregon State University. [terhubung berkala] www.irlibrary.oregonstate.edu.pdf [17 Januari 2011].



- Nakamura T, Kanno T, Miranda CHB, Ohwaki Y, Macedo MCM. 2002. Characterization of nitrogen utilization by tropical grasses (*Brachiaria* species) in the Brazilian savannas. JIRCAS Research Highlights
- Oliveira C, Scotti M, Purcino H, Vasconcellos C, Marriel I, Sà N. 2002. Decomposition of *Arachis pintoi* litter intercropped with forage grass in Cerrado soil in the dry and wet season. *Biology and Fertility of Soils J.* Volume 36: 6: 405-410.
- Pakiding W. 1998. A study on canopy dynamics of Bahia-grass (*Paspalum notatum* Flugge) sward: effect of nitrogen fertilization rate, type, and intensity of defoliation.
- Pradnyawan S.W.H. 2004. Pertumbuhan, struktur anatomi daun dan kandungan nitrogen, klorofil dan karotenoid daun *Gynura procumbens* [Lour] Merr. Pada level naungan yang berbeda. [Skripsi]. Department Biologi, Fakultas Matematika dan Ilmu Alam, Universitas Sebelas Maret, Surakarta.
- Purnomo J. 30th of August 2006. Hutan pastura. Tabloid *Sinar Tani*.
- Rato A. 2009. Integrated crop-livestock farming system. IFAD, Rome, Italy. [terhubung berkala] www.ifad.org/lrkm/index.htm. [02 November 2010]
- Reynolds SG. 1995. *Pasture Cattle-Coconut Systems*. FAO Regional Office for Asia and the Pacific, Rome.
- Richardson AE, Hocking PT, Simpson RJ, George TS. 2009. Plant mechanism to optimize access to soil phosphorus. *Crop and pasture Sci. J* 60: 124 – 143.
- Rika IK. 1998. New forage development in Bali, Indonesia: *Arachis pintoi* as cover crop and *Calliandra calothyrsus* for cattle fattening. Di dalam: St r WW, editor. *Proceeding of the Third Regional Meeting the Forages for Smallholder Project*. CIAT working document No.188
- Rodgers GA. 1986. Nitrification inhibitors in agriculture. *Journal of Environmental Science and Health Part A* 21, 701-722.
- Rusprasita Y, Premono ME, Syekhfani, Agustina L. 2008. Efisiensi penggunaan nitrogen tanaman tebu keprasan (*Saccharum officinarum* L.) yang dipupuk sipramin. *Agritek* Vol. 16 No. 9. p 1590 – 1600.
- Sabannavar J, Lakshman HC. 2009. Effect of rock fosfat solubilization using mycorrhizal fungi and phosphobacteria on two high yielding varieties of *Sesamum indicum* L. *World Journal of Agricultural Sciences* 5 (4): 470-479.
- Sao V, Nakbanpote W, Thiravetyan P. 2007. Cadmium accumulation by *Axonopus compressus* (Sw.) P. Beauv and *Cyperus rotundas* Linn growing in cadmium solution and cadmium-zinc contaminated soil. *Songklanakar J. Sci. Technol.*, 2007, 29(3) : 881-892



- Setiadi Y. 1998. Fungsi mikoriza arbuskula dan prospeknya sebagai pupuk biologis. Makalah disampaikan pada workshop aplikasi cendawan mikoriza arbuskula pada tanaman pertanian, kehutanan, dan perkebunan. Bogor: PAU Bioteknologi, IPB Bogor.
- Smith SE, Read DJ. 1997. Mycorrhizal Symbiosis. 2nd ed. Academic Press. London. UK.
- Smith SE, Smith FA, Jakobsen I. 2003. Mycorrhizal fungi can dominate fosfat supply to plants irrespective of growth responses. *Plant Physiology* Vol. 133. pp. 16–20.
- Souchie El *et al.* 2006. Communities of p-solubilizing bacteria, fungi and arbuscular mycorrhizal fungi in grass pasture and secondary forest of paraty. Rj – Brazil. *Anais Da Academia Brasileira De Ciências (Annals of the Brazilian Academy of Sci.)* 78: 183-193.
- Steel R. G. D, Torrie JH. 1995. *Prinsip dan Prosedur Statistika: suatu pendekatan biometrik*. Sumantri B. penterjemah. Jakarta: PT. Gramedia Pustaka Utama. Terjemahan dari: *Principles and Procedures of Statistics*.
- Stür WW. 1998. Screening forage species for shade tolerance - a preliminary report. Di dalam: Shelton, HM dan Stur, WW, editor. *Proc. of workshop Forages for Plantation Crop*. Sanur Beach, Bali, Indonesia. ACIAR Proceedings No. 32, 58–63.
- Subbarao GV, Rondon M, Ito O, Ishikawa T, Rao IM, Nakahara K. 2007. Biological nitrification inhibition (BNI) is it a widespread phenomenon? *Plant Soil* 294:5–18.
- Suharlina. 2010. Peningkatan produktivitas *Indigofera* sp sebagai pakan hijauan berkualitas tinggi melalui aplikasi pupuk organik cair dari limbah industri penyedap masakan. [Thesis]. Bogor: Fakultas Peternakan, Institut Pertanian Bogor.
- Sullivan P. 2003. Intercropping principles and production practices. ATTRA (Appropriate Technology Transfer in Rural Area). NCAT agriculture specialist illustrations by Missy Gocio.[terhubung berkala] <http://attra.ncat.org/attra-pub/PDF/intercrop.pdf>. [16 November 2009]
- Tarigan A. 2009. Produktivitas dan pemanfaatan *Indigofera* sp sebagai pakan ternak kambing pada interval dan intensitas pemotongan yang berbeda. [Thesis]. Bogor: Fakultas Peternakan, Institut Pertanian Bogor.
- Thomas RJ. 1994. Rhizobium requirements, nitrogen fixation and nutrient cycling in forage *Arachis*. *Biology and Agronomy of Forage Arachis*. CIAT.
- Touraine B, Clarkson DT, Muller B. 1994. Regulation of nitrate serapan at the whole plant level. Di dalam: Roy J dan Garnier E, editor. *A Whole Plant*

Perspective on Carbon–Nitrogen Interactions. SPB Academic Publishing, The Hague, pp. 11–30.

Tropical Forages. *Axonopus compressus*. [terhubung berkala] http://www.tropicalforages.info/key/Forages/Media/Html/Axonopus_compressus.htm [12 Januari 2011]

Uppal HS, Singh R, Adholeya A. 2008. Impact assessment of mycorrhiza application on *Oriza sativa* l. centre for mycorrhiza culture collection. *Mycorrhiza News* 20 (1): 21 – 23.

Vanlauwe B, Nwoke OC, Diels J, Sanginga N, Caarsky RJ, Deckers J, Merckx R. 2000. Utilization of rock phosphate by crop on representative toposequence in Northern Guinea savanna zone of Nigeria: respon by *Mucuna prunes. Lablab purpureus*. and maize. *Soil Biol Biochem* 32: 2063-2077.

Whitehead DC. 2000. Nutrient Elements in Grassland. Soil-Plant-Animal Relationships. CABI Publishing.

Wong CC. 1991. Shade tolerance of tropical forages: a review. In: Proceedings of workshop Forages for Plantation Crops, Shelton, H.M. and Stur, W.W. (ed.). Sanur Beach, Bali, Indonesia 27–29 June 1990. ACIAR Proceedings No. 32, 64–69

