

DAFTAR PUSTAKA

- Akin, D.E., E.L. Robinson., F.E. Barton, and D.S. Himmelsbach. 1977. Changes with maturity in anatomy, histochemistry, chemistry and tissue digestibility of Bermudagrass plants parts. J. Agric. And Food Chem. 5:179-86.
- Allison, M.J., E.T. Littledike, and L.F. James. 1977. Changes in ruminal oxalate degradation rates associated with adaptation of oxalate ingestion. J. Anim. Sci. 45: 1173-1179.
- Allison, M.J., K.A. Dawson., W.R. Mayberry., and J.G. Foss. 1985. Oxalobacter formigenes Gen-Nov, Sp-Nov-Oxalate-degrading anaerobes that in habit the gastrointestinal-tract. Arch. Microbiol. 141:1-7.
- Ambriyanto, K.S. 2010. Isolasi dan Karakterisasi Bakteri Aerob Pendegradasi Selulosa dari Serasah Daun Rumput Gajah (*Pennisetum purpureum* Schum). Fakultas Peternakan. Institut Teknologi Sepuluh November.
- Anggorodi, R. 1979. Ilmu Makanan Ternak Umum. PT Gramedia. Jakarta.
- AOAC. 2005. Official Method of Analysis of the Association of Official Analytical Chemistry. 18th ed. Association of Official Analytical Chemists. Washington DC.
- Balion, C.M., and R.J. Thilbert. 1994. Determination of oxalate by luminol chemiluminescence. Clin. Chem. 40: 1096-1097.
- Beever, D.E., N. Offer and M. Gill. 2000. The feeding value of grass and grassproduct. In : A. Hopkins (Ed) Grass: Its Production and Utilization. Published for British Grassland Soc. By Beckwell Science. 141-195.
- Blaney, B.J., R.J.W. Gartner, and R.A. McKenzie. 1981. The inability of horses to absorb calcium from calcium oxalate. J. Agric. Sci. Camb. 97: 639-641.
- Blaney, B.J., R.J.W. Gartner, and T.A. Head. 1982. The effect of oxalate in tropical grasses on calcium, phosphorus and magnesium availability to cattle. J Agric Sci Camb. 99: 533-539.
- Bogdan, A.V. 1977. Tropical Pasture and Fodder Plant. Logman, london and New York.

- Brega, A., A. Quadri., P. Vitta., P. Prandini., J. Q. Wei, and C. Lucarelli. 1992. Improved HPLC determination of plasma and urine oxalic acid in the clinical diagnostic laboratory. *J Liquid Chrom* 15: 501-511.
- Bressani, R., R. Macrae., R.K. Robinson., M.J. Sadler. 1993. *Encyclopedia of food science, food technology and nutrition*. London: Academic Press pp. 135-140.
- Brune, H. and H. Bredehorn. 1961. On the physiology of bacterial degradation of calcium oxalate and the ability to utilize calcium from calcium oxalate in the pig. *Z.Tierphysiol Tierernaehr*. 16: 214-236.
- Buckman, H. O. dan N. C. Brady. 1982. *Ilmu Tanah*. Terjemahan Soegiman. Bhratara Karya Aksara, Jakarta.
- Campieri, S.R., N.F. Caraco., D.L. Correll., R.W. Howarth., A.N. Sharpely., and V.H. Smith. 1998. Nonpoint pollution of surface waters with phosphorus and nitrogen. *Ecol. Appl*. 8: 559-568.
- Cheeke, P.R. 1995. Endogenous toxins and mycotoxins in forage grasses and their effects on livestock. *J. Anim. Sci*. 73: 909-918.
- Cherney, J.H. and M.A. Hall. 2004. Forage quality in perspective. Penstate College of Agricultural Sciences. Available at <http://www.forage.psu.edu/agfact.30.pdf>. Accession date 1 Oct 2015.
- Choi, Y.E., E. Harada., M. Wada., H. Tsuboi, Y. Morita., T. Kusano, and H. Sano. 2001. Detoxification of cadmium in tobacco plants: formation and active excretion of crystal containing cadmium and calcium through trichomes. *Planta*. 213: 45-50.
- Crowder, L.V. and R. Chheda. 1982. *Tropical Grassland Husbandry*. Longman. London.
- Deinum, B. 1981. The Influence of Physical Factors on the Nutrient Content of Forages. H Venman and Zonen BV., Wageningen.
- Devenda, C. 1977. Cassava as a FeedSource for Ruminant. In: *Cassava as Animal Food*. (Eds Nestel, B and Graham, M.). Procceding of Workshop. University of Guelph. Ottawa.
- Dhillon, K. S., B. S. Paul, R.S. Bajwa and J. Singh. 1971. A preliminary report on a peculiar type of napiergrass (*Pennisetum purpureum*,

- 'Pusa giant') poisoning in buffalo calves. *Indian J. Anim. Sci.* 41:1034-1036.
- Dwijoseputro, D. 1992. Pengantar Fisiologi Tumbuhan. Cetakan kedua belas. PT Gramedia Pustaka Utama. Jakarta. 132.
- Estiti, B.H. 1995. Anatomi Tumbuhan Berbiji. Institut Teknologi Bandung. Bandung
- Fengwu, W., Zhike, H.E., Qingyao, L., Zeng, Y. 1998. High performance liwuid chromatographic determination of oxalic acid in tea using tris (1,10 phenanthroline) ruthenium (II) Chemiluminescence. *Analytical Sci* 14: 971-973.
- Flores, J.A., J.E. Moore, and L.E. Sollesberg. 2005. Determinants of forage quality in Pensacola bahiagrass and Mott elephant grass. *Journal of Animal Science*. Dep Of Animal Science. Univ of Florida. Vo. 71.
- Franceschi, V.R. and P.A Nakata. 2005. Calcium oxalate in plants: formation and function. *Annu Rev Palnt Biol.* 56:41-71.
- Franceschi, V.R. Schueren, A.M. 1986. Incorporation of strontium into plant calcium oxalate crystals. *Protoplasma.* 130: 199-205.
- Gardner, F.P., Pearce, dan Mitchell, R.L. 1991. Fisiologi Tanaman Budidaya. Jakarta: UI Press.
- Gelot, H.A., Lover, G., Belleville, F., abet, P., 1980. Determination of oxalic acid in plasma and urine using gas chromatography. *Clinica Chimica Acta* 106: 279-285.
- Glazer, A.N., and Nikaido, H. 2007. *Microbial Biotechnology : Fundamentals of Applied Microbiology*. Second Edition. Cambridge. USA.
- Goldworthy, P.R., dan N.M. Fisher. 1996. *Fisiologi Tanaman Budidaya Tropik*, Edisi Indonesia. Universitas Gadjah Mada Press. Yogyakarta.
- Gontzea, I. and Sutzescu P. 1968. Oxalic acid in "Natural Antinutritrive Forages". S. Karger. Basel. Switzerland. Pp 84-108
- Hakim, N., M. Y. Nyakpa dan A. M. Lubis. 1986. Dasar-dasar Ilmu Tanah. Universitas Lampung.
- Hanna, W.W., and W.G. Monson. 1988. Registration of dwarf N75 napier grass germplasm. *Crop. Sci.* 28:870-871.

- Hartadi, H., S. Reksohadiprojo, dan A.D. Tillman. 1997. Tabel Komposisi Makanan Ternak Untuk Indonesia. Cetakan IV. Universitas Gadjah Mada Press. Yogyakarta.
- Hodgkinson, A. 1977. Oxalic Acid in Biology and Medicine. Academic Press. London.
- Hokama, S., Y. Honma., C. Toma., and Y. Ogawa. 2000. Oxalate degrading *Enterococcus faecalis*. Microbiol Immunol. 44: 235-240.
- Holloway, W.D., M.E. Argall., W.T. Jealous., J.A. Lee., and J.H. Bradbury. 1989. Organic acids and calcium oxalic acid in tropical root crops. J. Agric. Food Chem. 37; 337-341.
- Horner, H.T. and B.L. Wargner. 1995. Calcium oxalate formation in higher plant. In Khan SR (Ed.). calcium oxalate in biological systems (CRC Press, Boca Raton, FL). pp 53-72.
- Huang, A.S., and L.S. Tanudjaja. 1992. Application of anion-exchange high performance liquid chromatography in determining oxalates in Taro (*Colocasia esculenta*) corms. J. Agric. Food Chem. 40: 2123-2126.
- Ibrahim, M.A. 1989. Response of Dwarf Elephant Grass (*Pennisetum purpureum* Schum cv Mott) to different frequencies and intensities of grazing in the humid zone at Guaples Costa Rica. Thesis Magister. Centro Agronomo Tropical de investigaciony Esenanza Tarialbu, Costa Rica.
- Infantes J.A., Luque de Castro M.D., Valcarcel, M. 1991. Kinetic enzymatic determination of oxalic acid in urine by flow injection analysis with double stopped flow. Anal Chimica Acta 242: 179-183.
- James, L.F., C.S. Joseph., and E.B. John. 1967. In vitro degradation of oxalate and off cellulose by rumen ingesta from sheep fed *Halogeton glomeratus*. J. Anim. Sci. 26: 1438.
- Jones, R. J. and C. W. Ford. 1972. Some factors affecting the oxalate content of the tropical grass *Setaria sphacelata*. Aust. J. Exp. Agric. Anim. Husb. 12:400-406.
- Jusoh, S., A. R. Alimon, and M. Hilmi. 2007. Practical experiences working with dwarf napier grass (*Pennisetum purpureum* cv. *Mott*). Proc. 28th MSAP Ann. Conf., 29 - 31 May, Kuching.

- Kamal, M.1998. Nutrisi Ternak Dasar. Laboratorium Makanan Ternak. Jurusan Nutrisi dan Makanan Ternak. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta.
- Kozloski, G.V., J. Perottoni, M.L.S. Ciocca, J.B.T. Rocha, A.G. Raiser, and L.M.B. Sanchez. 2003. Potential nutritional assessment of dwarf elephant grass (*Pennisetum purpureum* Schum. Mott) by chemical composition, digestion and net portal flux of oxygen in cattle. Anim. Feed Sci. Tech. 104: 29-40.
- Kozloski, G.V., J. Perottoni, L.M.B. Sanchez. 2006. Influence of regrowth age on nutritive value of dwarf elephant grass (*Pennisetum purpureum* Schum cv Mott) consumed by lamb. J. Anim. Feed Science. 119, p: 1-11.
- Lal, B.M., R.P. Johari and R.K. eMehta. 1996. Some investigations on the oxalate status of Pusa giant napiergrass its patents. Curr. Sci. 5:125-126.
- Liebman, M. 2002. The truth about oxalate. The vulvar pain newsletter,22.
- Libert, B. and Franceschi, V.R. 1987. Oxalate in crop plants. J Agric Food Chem. 35: 926-938.
- Lugiyo, 2006. Umur pemotongan terhadap produksi hijauan rumput Sorghum SP sebagai tanaman pakan ternak. Temu teknis nasional tenaga fungsional pertanian. Bogor.
- Ma, J.F., S.J. Zheng, H. Matsumoto. 1997. Detoxifying aluminum with buckwheat. Nature 390: 569-570.
- Ma, Z., and S.C. Miyasaka. 1998. Oxalate exudation by taro in response to Al. Plant Physio: 118: 861-865.
- Marais, J. P., A. D. Barnabas and D. L. Figenschou. 1997. Effect of calcium nutrition on the formation of calcium oxalate in kikuyugrass. In: Proceedings of the XVIII International Grassland Congress, Canada. p. 45.
- Marais, J.P. 2001. Factors affecting the nutritive value of kikuyu grass (*Pennisetum clandestinum*). Tropical Grasslands. 35, 65–84.
- Marrasing, J.S., W.B. Kaunang, F. Dompas, dan N. Bawole. 2013. Produksi dan kualitas rumput gajah dwarf (*Pennisetum purpureum*) cv. Mott yang diberi pupuk organik hasil fermentasi EM4. Jurnal Zootek ("Zootek" Journal). 32 : 158–171.

- Maynard, L.A. and J.K., Loslie. 1973. Animal Nutrition. 6th Edition. Tata McGraw Hill Publishing Company Ltd. New Delhi.
- Mazen, A.M.A., El magraby, O.M.O. 1997. Accumulation of cadmium, lead and strontium, and a role of calcium oxalate in water hyacinth tolerance. *Biologia Plantarum*. 40:411-417.
- Mckenzie, R.A. and K. Schultz.1983. Confirmation of the presence of calcium oxalate crystals in some tropical grasses. *J. agric. Sci (Cambridge)* 100:249-250.
- Mckenzie, R.A., Bell, A.M., Storie, G.J., Keenan F.J., Cornack, K.M., Grant, S.G. 1988.Acute oxalate poisoning of sheep by buffel grass (*Cenchrus ciliaris*). *Aust Vet J* 65: 26.
- Mcllroy, R.J.1972. An Introduction to Tropical Grassland Hysbandry. 2nd Ed. Oxford University Press, London.
- Moir, K.W. 1953. The determination of oxalic acid in plants. *Queensland J Agric Sci* 10:1-3.
- Moore, K.J. and H.J.G. Jung. 2011. Lignin and Fiber digestion. *J. Range Management*. Volume 54:420-430.
- Moran, J. 2005. Tropical Dairy Farming. Department of Primary Industries. Victoria State Goverment. CSIRO Publishing.
- Mukhtar M., Y. Ishii., S. TUSDRI., S. Idota and T. Sonoda. 2003. Dry matter productivity and overwintering ability of the dwarf and normal *napiergrass* as affected by the planting density and cutting frequency. *Plant Prod .Sci*. 6:65-73.
- Nakata, P.A. 2003. Advances in our understanding of calcium oxalate crystal formation and function in plants. *Plant Sci* 164: 901-909.
- Nitis, I.M. 2000. Ketahanan Pangan Ternak di Kawasan Timur Indonesia. BKS PTN INTIM. Makassar.
- Noonan, S.C., G.P. Savage. 1999. Oxalate content of foods and its effect on humans. *Asia Pacific J Clin Nutr*. 8: 64-74
- Norton, B.W., J.R. Wilson., H.M. Shelton and K.D. Hill. 2004. The effect of Shade on forage Quality. (Diakses : 1 Oktober 2015).
- Nyambati, E.N., F.N. Muyekho, E. Ongingjo and C. Lusweti. 2010. Production, characterization and nutritional quality of Napier grass

[*Pennisetum purpureum* (Schum.)] cultivars in Western kenya.
African Journal of Plant Sci. 4: 496-502.

Perez-Ruiz, T., Matinez-Lozano, C., and Casajus, R. 1994. Flow injection spectrofluorimetric determination of oxalic acid based on its enhancing effect on the oxidation of rhodamine B by dichromate. Analyst 120: 2111-2114.

Perez-Ruiz, T., Matinez-Lozano, C., San, A., and Val, O. 1999. HPLC determination of oxalic acid using tris (1,10-phenanthroline)ruthenium(II) chemiluminescence application to the analysis of spinach. Food Chem 65: 543-546.

Petrarulo, M., Cerelli, E., Maranegella, M., Cosseddu, D., Vitale, C., and Linari, F. 1994. Assay of plasma oxalate with soluble oxalate oxidase. Clin Chem 40: 2030-2034.

Prawiradiputra, B.R., Sajimin, Purwantari, N.D. dan i. Herdiawan. 2006. Hijauan Pakan Ternak di Indonesia. Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian, Jakarta.

Purbajanti, E.D. 2013. Rumput dan Legum Sebagai Hijauan Makanan Ternak. Graha Ilmu. Yogyakarta.

Rahman, M.M., M.Niimi, Y. Ishii and O. Kawamura. 2006. Effects of seasons, variety and botanical fractions on oxalate content of napiergrass (*Pennisetum purpureum* Schumach). Grassl. Sci. 52:161-166.

Rahman, M.M. and Kawamura, O., 2011. Oxalate accumulation in forage plants: some agronomic, climatic and genetic aspects. Asian Aust. J. Anim. Sci., 24(3): 439-448.

Reksohadiprodjo, S. 1985. Produksi Tanaman Hijauan Makanan Ternak Tropik. BPFE. Yogyakarta.

Ruiz, T.M., W. K. Sanchez, and C.R. Staples. 1992. Comparison of 'Moa' dwarf elephantgrass silage and corn silage for lactating dairy Cows. J. Dairy Sci. 75: 533.

Salisbury, F. B dan C.W. Ross. 1995. Fisiologi Tumbuhan. Jilid 2. Institut Teknologi Bandung. Bandung.

Sangketkit, C., G.P. Savage., R.J. Martin., S.L. Mason., and L. Vanhanen. 1999. Oxalate in Oca: a negative feature? Proceedings of Pasific Partners in Nutrition, 2nd South West Pacific Nutrition and Dietetic Conference. 24: 44-50.

- Setyati, M.M.S. 1988. Pengantar Agronomi. Cetakan kedelapan. PT Gramedia. Jakarta.
- Sinaga, R. 2007. Analisis model ketahanan rumput gajah dan rumput raja akibat cekaman kekeringan berdasarkan respon anatomi akar dan daun. Fakultas MIPA. Universitas Sumatera Utara. J.Biologi Sumatera. ISSN 1907-5537,
- Sindhu, P.K., D.V. Joshi and A.K. Srivastava. 1996. Oxalate toxicity in ruminants fed overgrown napiergrass (*Pennisetum purpureum*). Indian. J.anim Nutr 13:181-183.
- Singh, A. 2002. Kandungan Organik Tumbuhan Tinggi. Edisi keenam. Penerbit ITB. Bandung.
- Skerman, P. J., P. G. Cameron and F. R. Riveros. 1988. Tropical Grasses. FAO of the United Nations. Rome.
- Sollenberger, L.E., G.M. Prine, W.R. Ocumpaugh, W.W. Hanna, C.S. Jones, Jr., S.C. Schank, and R.S. Kalmbacher. 1989. Registration of 'Mott' dwarf elephant grass. Crop Sci. 29: 827 – 28.
- Sollenberger, L.E. 2008. Mott elephant grass. University of Florida, IFAS, Florida A. & M. University Cooperative Extension Program. SS-AGR-58.
- Susetyo, S. 1980. Padang Penggembalaan. Fakultas Peternakan. Institut Peternakan Bogor. Bogor.
- Sutikno, A.I., B. Tangendjaja dan S. Kompiang, 1989. Laporan Akhir Hasil Penelitian IV-I/5/4/3/01.
- Syarifuddin, NA. 2006. Nilai Gizi Rumput Gajah Sebelum dan Setelah Enzilase Pada Berbagai Umur Pemotongan. Produksi Ternak, Fakultas Pertanian UNLAM, Lampung.
- Tas, BM., H.Z. Tawee., H.J. Smit., A., Elgersma., J. Dijkstra and S. Tamminga. 2006. Effect of perennial ryegrass cultivars on milk yield and nitrogen ultization in grazing dairy cows. J. Dairy Sci.89:4394-500.
- Tekletsadik, T., S. Tudsri, S. Juntakool, and S. Prasanich. 2004. Effect of Dry Season Cutting Management on Subsequent Forage Yield and Quality of Ruzi (*Brachiaria ruziziensis*) and Dwarf Napier (*Pennisetum purpureum* L.) in Thailand. Kasetsart J. (Nat. Sci.) 38 : 547 - 67.

- Tillman, A. D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo dan S. Lebdosoekojo. 1986. Ilmu Makanan Ternak Dasar. Cetakan ke-3. Gajah Mada University Press. Yogyakarta.
- Tillman, A.D., H. Hartadi, S. Reksohadiprojo, S. Prawirokoesoemo dan S. Lebdosoekojo. 1991. Ilmu Makanan Ternak Dasar. Edisi ke-5. Gadjah Mada University Press, Yogyakarta.
- Tjitrosoepomo, G. 2003. *Morfologi Tumbuhan Edisi ke-14*. Gajah Mada University Press. Yogyakarta.
- Tolbert, N.E. 1981. Metabolism pathways in peroxisomes and glyxysomes. *Ann Rev Biochem* 50:133-157.
- Urribari, L., A. Ferrer, and A. Collina. 2005. Leaf protein from ammonia treasted dwarf elephant grass (*Pennisetum purpureum* Schum cv Mott). *Journal of Applied Biochemistry and Biotechnology*. Humana Press Inc. 122: 721-730.
- USDA. 1999. Natural Resources Conservation Servis. Plant Propil. *Pennisetum purpureum*. Schum. <http://plants.usda.gov/core/profile?symbol=PEPU2>. (Diakses : 19 September 2015).
- USDA. 2008. Website. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network-(GRIN) [Online Database] National Germplasm Resources Laboratory, Beltsville, Maryland. <http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?27208>. (Diakses : 19 September 2015).
- Utzman, S. 1993. Improved analysis of process liquors for the pulp and paper industry by ion chromatography. *J. Chrom.* 640: 287-292.
- Van Soest, P.J. 1994. Nutrition Ecology of the Ruminant. 2nd Ed. Comstock Publishing Associates A Division of Cornell University Press. London.
- Wahyuni, R.D. dan S.N. Kamaliyah. 2012. Studi tentang pola produksi alfalfa tropis (*Medicago sativa* L.). *Jurnal Ilmu-ilmu Peternakan* 19(1): 20 -27.
- Ward, G. Harbers, L.H. and Blaha, J.J. 1979. Calcium containing crystals in alfalfa: their fate in cattle. *J. Dairy. Sci.* 62: 715-722.
- Watanabe, Y., F. Uchiyama and K. Yoshida. 1994. Compositional changes in spinach (*Spinacia oleracea* L.) grown in the summer and the fall. *J. Jap Soc Hort. Sci.* 62:889-895.

- Weese, J.S., H.E. Weese.,L. Yuricek and J. Rousseau. 2004. Oxalate degradation by intestinal lactic acid bacteria in dogs and cats. *vet microbial*. 101:161-166.
- Whitehead, D.C. 2000. *Nutrient Elements in Grassland. Soil-Plant-Animal Relationship*. CAB Publishing, New York.
- Whiteman, P. C. 2001. *Tropical Pasture Science Published in The United States* by Oxford University Press. New York.
- Wilson, C.W., Shaw P.E III, knight R.J Jr. 1982. Analysis of oxalic acid in Carambola (*Averrhoa-carambola* L.) and Spinach by high performance liquid chromatography. *J. Agri. Food. Chem* 30: 1106-1108.
- Yoshikawa, T.,K. Nakagawa.,T. Kobayashi., S.Tokieda and S. Nagai. 1998. Studies on high quality production and shipment of I: effect of varieties and growth stage on oxalic acid content. *Kinki Chogoku Agric Res*. 75:71-76 (Abstr).
- Zahid, M. S., A. M. Haqqani, M. U. Mufti, and S. Shafeeq. 2002. Optimisation of N and P fertilizer for higher fodder yield and quality in mottgrass under irrigationcum rainfed conditions of Pakistan. *Asian J. Plant Sci*. 1: 690 – 93.