REFERENCES

Advantages and Disadvantages of grass silage. Website: *http://agrotechno-park.blogspot.com/2011/12/advantages-and-disadvantages-of-grass.html,* 18 September 2014.

Akin, D. E., 1980. Evaluation by electron microscopy and anaerobic culture of type of rumen bacteria associated with digestion of forage cell walls. Applied and Environmental Microbiology 39: 242-252.

Animal Nutrition Division. 2004. Table of animal nutrition values. (Technical Document No. 47(3)–0514–182). Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok

AOAC, 2006. Official methods of analysis. Fourteenth ed. Association of Official Analytical Chemists, Inc. Arlington, Virginia, USA. 468 pp.

Archimède, H, M. Boval, G. Alexandre, A. Xandé, G. Aumont, and C. Poncet. 2000. Effect of regrowth age on intake and digestion of *Digitaria decumbens* consumed by Black-belly sheep. Animal Feed Science Technology 87: 153–162.

Assoumaya, C, M. Boval, D. Sauvant, A. Xandé, C. Poncet, and H. Archimé de. 2007. Intake and digestive Processes in the rumen of rams fed with *Digitaria decumbens* harvested at four stages of grass regrowth age. Asian-Australasian Journal of Animal Science 20: 925–932.

Aumont, G., I. Caudron, G. Saminadin and A. Xandè. 1995. Sources of variation in nutritive values of tropical forages from the Caribbean. Animal Feed Science and Technology 51: 1 – 13.

Babayemi, O. J. 2009. Silage quality, dry matter intake and digestibility by West African Dwarf sheep of Guinea grass (*Panicum maximum* cv Ntchisi) harvested at 4 and 12 week regrowths. African Journal of Biotechnology 8(16): 3983-3988.

Bailey, C. B. 1961. Saliva secretion and its relation to feeding in cattle. British Journal Nutrition 15: 443-451.

Beever, D. E. 1993. Ruminant animal production from forages: present position and future possibilities. Proceedings of the 17th International Grassland Congress, pp 535–542.

Bruins, W. J. 1990. Effect of adding formic acid and molasses to low degree wilted silage. Regionale Ondenoek Centra (RocÕc) Koppet,Leilystat, pp. 118-122.

Bruno-Soares, A. M., J. M. F. Abreu, C. V. M. Guedes and A. A. Diasda-Silva. 2000. Chemical composition, DM and NDF degradation kinetics in rumen of seven legume straw. Animal Feed Science Technology 83:75-80.

Bureenok, S., C. Yuangklang, K. Vasupen, J.T. Schonewille and Y. Kawamoto. 2006. The effects of additives in napier grass silages on chemical composition, feed intake, nutrient digestibility and rumen fermentation. Asian-Australasian Journal of Animal Science 25(9): 1248-1254.

Bureenok, S., C. Yuangklang, K. Vasupen, J.T. Schonewille and Y. Kawamoto. 2012. The effects of additives in Napier grass silages on chemical composition, feed intake, nutrient digestibility and rumen fermentation. Asian - Australasian Journal of Animal Sciences 25(9): 1248-1254.

Chaichaum, W., C. Kanthapanit, S. Wanapiyarat and N. Chomchai. 2007. Utilization of pangola grass as a roughage source in finishing beef steer. Annual Report Year (Technical Document No. 49(3)-0514-166). Animal Nutrition Division, Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, pp 165–185.

Chaikong, C., N. Saenthaweesuk, W. Arahung, K. Sanrachai, P. Sritasang and P. Moolchai. 2013. Cutting intervals on yields and chemical compositions of some forage crops using as non-ruminant feed during cold season. Journal of Mahasarakam University 9:641-648.

Chen, C. R., B. Yu and P. W. S. Chiou. 2004. Roughage energy and degradability estimation with *Aspergillus oryzae* inclusion using DaisyII *In vitro* fermentation Asian-Australasian Journal of Animal Science 17(1): 53-62.

Chomchai, N., W. Sudhanthanakit, K. Ferngfong, P. Sookpanya, W. Suksaran, J. Arananant, T. Buranapawang and K. Pugdeethai. 2010. The development of the process of the pangola grass production to improve their quality. Annual report

(Technical Document No. 50(1)–0214–044). Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok

Cooke, L. 1995. New strains slow silage spoilage. Agricultural Research 40: 17.

Cruz, P., G. Alexandre and H. Baudot. 1989. Cinetique de la croissance foliaire et stolonifere dun peuplement de *Digitaria decumbens* au tours de la repousse. Proceeding, 16th CongrL+s International des Herbages, Nice, France, pp. 499-500.

Danner, H., M. Holzer, E. Mayrhuber and R. Braun. 2003. Acetic acid increases stability of silage under aerobic conditions. Applied and Environmental Microbiology 69: 562–567.

David, M., R. Geoffrey and T. Anthony. 21st Century Guidebook to Fungi. Cambridge University Press, London.

De Boer, A. H. and V. Volkov. 2003. Logistics of water and salt transport through the plant: structure and functioning of the xylem. Plant Cell Environment 26: 87–101.

Deinum, B., A. J. H. Van Es and P. J. Van Soest. 1968. Climate, nitrogen and grass. 2. The influence of light intensity temperature and nitrogen on in vivo digestibility of grass and the prediction of these effects from some chemical procedures. Netherlands Journal of Agricultural Science 16: 217-233.

Dhanoa, M. S. 1988. Analysis of Dacron bag data for low degradability feeds. Grass and Forage Science 43: 441-444.

Donaldson, L.A. 2001. Lignification and lignin topochemistry–an ultra structural view. Phytochemistry 57: 859–873.

Dunière, L., J. Sindou, F. Chaucheyras-Durand, I. Chevallier and D. Thèvenot-Sergentet. 2013. Silage processing and strategies to prevent persistence of undesirable microorganisms. Animal Feed Science Technology 182: 1-15.

FAO. 2009. Grassland Index. A searchable catalogue of grass and forage legumes. FAO, Rome, Italy.

Ferguson, W. S. 1948. The effect of laze nitrogenous top dressing on the digestibility of hay. Journal of Agricultural Science 38: 33.

Filya, I. 2003. The effect of *Lactobacillus buchneri*, with or without homofermentative lactic acid bacteria, on the fermentation, aerobic stability and ruminal

degradability of wheat, sorghum and maize silages Journal of Applied Microbiology 95: 1080–1086.

Fina, L. R., G. W. Teresa and E. E. Bartley. 1958. An artificial rumen technique for studying rumen digestion *in vivo*. Journal of Animal Science 17: 667-674.

Ford, C. W. and R. Elliot. 1987. Biodegradability of mature grass cell wall in relation to chemical composition and rumen microbial activity. Journal of Agricultural Science 108: 201–209.

Fromm, J., B. Rockel, S. Lautner, E. Windeisen and G. Wanner. 2003. Lignin distribution in wood cell walls determined by TEM and back scattered SEM techniques. Journal of Structural Biology 143: 77–84.

Fukuda, H. 1997. Programmed cell death during vascular system formation. Cell Death Differ 4: 684–688.

Fukuda, H. 2004. Signals that control plant vascular cell differentiation. Natural Review Molecular Cell Biology 5: 379–391.

Goering, H. K. and Van Soest, P.J. 1970. Forage Fiber Analysis (apparatus, reagent, produces and some application). Agriculture Handbook No. 379:1-20, United States Department of Agriculture, Washington, D.C.

Hinds, M.A., K. K. Bolsen, J. Brethour, G. Milliken and J. Hoover. 1985. Effects of molasses/urea and bacterial inoculant additives on silage quality, dry matter recovery and feeding value for cattle. Animal Feed Science Technology 12: 205-214.

Holm, J. 1973. The mineral content of some tropical fodder plants at different stages of growth periods in northern Thailand. Thai Journal of Agricultural Science 6: 257–266.

Hopson, J. D., R. K. Johnson and B. A. Dehority. 1963. Evaluation of the Dacron bag technique as a method of measuring cellulose digestibility and rate of forage digestion. Journal of Animal Science 22:448 453.

Hsu, F.H., K. Y. Hong, M. J. Lee, and K. C. Lee. 1990. Effect of cutting intervals on forage yield, nutrient composition and silage quality of Napier grass. Journal of Chinese Society Agricultural 151: 77-89.

Hsu, F.H., Hong, K.Y., Lee, M.J., 1993. Effect of cutting intervals on forage yield and quality of pangola grass and coastal cross. II. Bermuda grass. Taiwan Livestock Research 26 (1): 91-97.

Hsu, F.H., C. Shyh-Rong and K. Y. Hong. 2004. Effects of different cutting stages on forage yield and quality of nilegrass and pangola grass. Proceedings of the 4th International Crop Science Congress Brisbane, Australia, 26 Sep–1 Oct 2004.

Hubbard Feed Inc., 2009. Guidelines for optimal production of corn silage, earlage and HM corn. Website: *http://www.hubbardfeeds.com/tipsandtools/beef/beef-tech-line/guidelines-for-optimal-production-of-corn-silage-earlage-and-hm-corn*, 21 August 2014.

Huisden, C. M., A. T. Adesogan, S. C. Kim and T. Ososanya. 2009. Effect of applying molasses or inoculants containing homofermentative or heterofermentative bacteria at two rates on the fermentation and aerobic stability of corn silage. Journal of Dairy Science 92: 690–697.

Jaakkola, S., V. Kaunisto and P. Huhtanen. 2006. Volatile fatty acid proportions and microbial protein synthesis in the rumen of cattle receiving grass silage ensiled with different rates of formic acid. Grass and Forage Science 61: 282–292.

Jacobs, J. with A. Hargreaves. 1999. Feeding dairy cows. A manual for use in the target 10 nutrition program. 3rd ed. Department of Natural Resources and Environment, Victoria, Australia. 264 pp.

Karabulut, A., O. Canbolat and A. Kamalak. 2006. Evaluation of carob, *Ceratonia siliqua* pods as a feed for sheep. Livestock Research Rural Development 18(7): 104.

Karabulut, A., O. Canbolat, C. O. Ozkan and A. Kamalak. 2007. Determination of nutritive value of citrus tree leaves for sheep using *in vitro* gas production technique. Asian-Australasian Journal of Animal Science 20(4): 529-535.

Khemsawat, C. and T. Phonbumrung. 2002. Thai government promotes fodder production and encourages marketing. Southeast Asia Feed Research and Development Network, Seafrad News 12: 9.

Khuamangkorn, P., K. Klum-em and S. Martosot. 2006. Effect of Using Additives on silage quality of Pangola grass. Animal Nutrition Division, Department of

Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, pp 121–137

Klum-em, K., Porjang S. and Thummasan P. 2002. Effect of Rate and Application time of Nitrogen Fertilizer on Forage Yield and Chemical Composition of Dwarf Napier Grass in Srakaew Province. Annual Report Year. Animal Nutrition Division, Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, pp 159–174.

Köhler, B., M. Diepolder., J. Ostertag, S. Thurner and H. Spiekers. 2013. Dry matter losses of grass, lucerne and maize silages in bunker silos. Agricultural and Food Science 22: 145-150.

Kretschmer, A. E., Jr. 1965. The effect of nitrogen fertilization of mature pangola grass just prior to utilization in the winter on yields, dry matter, and crude protein contents. Agronomy Journal 57:529-534.

Kung, L. and R. Shaver. 2001. Interpretation and Use of Silage Fermentation Analysis Reports. Focus on Forage 3(13): 1-5.

Kung, J., L. J. R. Robinson and J. D. Pesek. 2000. Microbial populations, fermentation end-products and aerobic stability of corn silage treated with ammonia or a propionic acid based preservative. Journal of Dairy Science 83: 1479-1486.

Larbi, A., J. W. Smith, I. O. Kurdi, I. O. Adeknle, A. M. Raji and D. O. Ladipo. 1998. Chemical composition, rumen degradation, and gas production characteristics of some multipurpose fodder trees and shrubs during wet and dry seasons in the humid tropics. Animal Feed Science Technology 72: 81–96.

Laredo, M.A. and D. J. Minson. 1973. The voluntary intake, digestibility and retention time by sheep of leaf and stem fractions of five grasses. Australian Journal of Agricultural Research 24: 875-888.

Laredo, M.A. and D. J. Minson. 1975. The effect of pelleting on the voluntary intake and digestibility of leaf and stem fractions of three grasses. British Journal of Nutrition 33: 159-l 70.

Lattemae, P., C. Ohlsson and P. Lingvall. 1985. The combined effect of molasses and formic acid and quality of red-clover silage. Swedish Journal of Agricultural Research 1: 31-41.

Lee, M.J., S.Y. Hwang and P.W.S. Chiou. 2000. Metabolizable energy of roughage in Taiwan. Small Ruminant Research 36: 251-259.

Leibensperger, R.Y. and R. E. Pitt. 1988. Modeling the effect of formic acid and molasses on ensilage. Journal of Dairy Science 71: 1220-1229.

Lima, R., R. F. Diaz, A. Castro, S. Hoedtke and V. Fievez. 2010. Multifactorial models to assess responses to sorghum proportion, molasses and bacterial inoculant on *in vitro* quality of sorghum-soybean silages. Animal Feed Science Technology 164: 161–173.

Lin, J.B., M.C. Lee, S.R. Chang and F.H. Hsu. 2004. Comparison of digestibility and metabolizable energy between nilegrass and pangola grass. Proceedings of the 4th International crop science congress, Australia, September 2004. Poster.

McBurney, M. I., M. S. Allen and P. J. Van Soest. 1986. Preseodymium and copper cation-exchange capacities of neutral-detergent fibres relative to composition and fermentation kinetics. Journal of the Science of Food and Agriculture 3: 666-672.

McDonald, P., A. R. Henderson and S. J. E. Heron. 1991. The biochemistry of silage. 2nd Ed. Chalcombe Publications, Marlow, Bucks. 340 pp.

McDonald, P.; R. A. Edwards and J. F. D. Greenhalgh. 2002. Animal Nutrition. 6th Edition. Longman, London and New York. 543 p.

Mehrez, A.Z. and E.R. Ørskov. 1977. A study of the artificial fibre bag technique for determining the digestibility of feeds in the rumen. Journal of Agricultural Science Cambridge 88: 645-650.

Menke, K. H. and H. Steingass. 1988. Estimation of the energetic feed value obtained from chemical analysis and *in vitro* gas production using rumen fluid. Animal Research and Development 28: 7-55.

Menke, K.H., L. Raab, A. Salewski, H. Steingass, D. Fritz and W. Schneider. 1979. The estimation of the digestibility and metabolizable energy content of ruminant feeding stuffs from the gas production when they are incubated with rumen liquor. Journal of Agricultural Science 93: 217–222.

Merry, R.J., R. F.Cussen-MacKenna, A. P. William, and J. K. S. Tweed. 1993. The effect of different inoculants on fermentation and proteolysis in silages of

differing perennial ryegrass and white clover content. Proceedings of the 10th International silage Conference, Dublin, 6-8 September 1993, pp. 83.

Muck, R.E. 1993. The role of silage additives in making high quality silage. In: Silage Production from Seed to Animal. Syracuse, NYL: NRAES-67, Northeast Regional Agricultural Engineering Service. pp. 106–116.

Ndlova, L. R. and F. V. Nherera. 1997. Chemical composition and relationship to in vitro gas production of Zimbabwean indigenous tree species. Animal Feed Science Technology 69:121-129.

Neathery, M. W. 1972. Conventional digestion trials vs nylon bag technique for determining seasonal difference in quality of midland Bermuda grass. Journal of Animal Science 34: 1075-1084

Nsahlai, I.V., D. Siaw and P. O. Osuji. 1994. The relationship between gas production and chemical composition of 23 browses of the genus *Sesbania*. Journal of Science Food Agricultural 65: 13–20.

Oliveira, A.S. 1995. Rapid pH Reductions in Silages. Revista Brasileira de Saúde e Produção Animal 12: 1-5.

O'Kiely, P., A. V. Flyn and D. B. R. Poole. 1989. Sulphuric acid as a silage preservative. 2. application rate, silage composition, animal performance and copper status. Irish Journal of Agricultural Research 28: 11-23.

Opatpatthanakij, A., C. Sampetch, A. Promsiri, P. Seubpongsang, S. Intharit, W. Pannakosa and J. Aoktan. 2008. Efforts to create professional farmers: pangola grass. Chiang Mai, Thailand. 206 pp.

Ørskov, E. R. and I. McDonald. 1979. The estimation of protein degradability in the rumen from incubation measurements weighted according to rate of passage. Journal of Agricultural Science 92: 499-503.

Ørskov, E. R. 1989. Evaluation of feed resources for ruminants and ruminants for feed resources. In: Feeding strategies for improving productivity of ruminant livestock in developing countries. IAEA, Vienna, Austria, pp 115–128.

Overman, A.R. and S. R.Wilkinson. 1989. Partitioning of dry matter between leaf and stem in coastal Bermuda grass. Agricultural Systems 30: 35-47.

Padgam, J. 2006. Organic Dairy Farming: A Resource for Farmers. Orang-utan Press.

Phiri, M. S., N. T. Ngongoni, Maasdorp, M. Titterton, J. F. Mupangwa and A. Sebata. 2007. Ensiling characteristics and feeding value of silage made from Browse tree legume – maize mixtures. Tropical and Subtropical Agroecosystems 7: 149-156.

Phunphiphat, W., W. Suksaran and R. Phunphiphat. 2008. Applications and rates of urea on yield and quality of pangola grass. Annual Report Year (Technical Document No. 44 (1)–0514–042). Animal Nutrition Division, Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, pp 49–62.

Poppi, D.P., D. J. Minson and J. H. Ternouth. 1980. Studies of cattle and sheep eating leaf and stem fractions of grasses. 1. The voluntary intake, digestibility and retention time in the reticulo-rumen. Australian Journal of Agricultural Research 32: 99-108.

Queensland government, 2013. Nutrition and grazing management. Website: *https://www.daf.qld.gov.au/animal-industries/dairy/feed-and-nutrition/nutrition-for-lactating-dairy-cows/nutrition-and-grazing-management*, 6 October 2014.

Rees, M. C. and D. J. Minson. 1978. Fertilizer sulphur as a factor affecting voluntary intake, digestibility and retention time of pangola grass *(Digitaria decumbens)* by sheep. British Journal of Nutrition 39: 5-11.

Rinne, M., P. Huhtanen, and S. Jaakkola. 1997. Grass maturity effects on cattle fed silage-based diets. 2. Cell wall digestibility, digestion and passage kinetics. Animal Feed Science Technology 67: 19–35.

Rooke, J. A. 1991. Acetate silages: microbiology and chemistry. Landbauforsch. Völkenrode Sonderheft 123:309–312.

Sariçiçek, Z.B. and U. KILIÇ. 2009. The effects of different additives on silage gas production, fermantation kinetics and silage quality. Ozean Journal of Applied Sciences 2: 1943-2429.

Schroeder, J. W. 2004. Forage nutrition for ruminants. Website: *https://www.ag.ndsu.edu/pubs/ansci/range/as1254.pdf*, 22 July 2014.

Schroeder, J. W. 2013. Forage nutrition for ruminants. Website: *https://www.ag.ndsu.edu/pubs/ansci/dairy/as1250.pdf*, 23 July 2014.

Schroeder, J. W. 2013. Haylage and other fermented forages. Website: *http://www.ag.ndsu.edu/pubs/ansci/dairy/as1252.pdf*, 22 July 2014.

Sengsai, A., P. Chararachata and S. Poathong. 2002. Effects of cutting interval and grass species on yield and quality of hay. Annual Report Year (Technical Document No. 46(1)–0514–028). Animal Nutrition Division, Department of Livestock Development, Ministry of Agriculture and Cooperatives, Bangkok, pp 104–120.

Skerman, P. J. and F. Riveros. 1990. Tropical grasses. Food and Agriculture Organization of the United Nations. Rome, Italy. 832 pp.

Stewart, W.M. 2011. Plant nutrition today. Scientific staff of the International Plant Nutrition Institute, Norcross, Georgia.

TH-LiFDS, 2014. Numbers of livestock in Thailand. Website: *http://ict.dld.go.th/th2/index.php/th/report/196-report-thailand-livestock/reportservey2557/865-survey57-6*, 17 November 2014.

Tikam, K. 2014. Evaluation of pangola grass as forage for ruminants. Institute of Animal Science, University of Bonn, Bonn. 65 pp.

Tikam, K., C. Mikled , T. Vearasilp, C. Phatsara and K.-H. Südekum. 2010. Digestibility of nutrient and evaluation of energy of pangola grass in sheep compared with napier grass. Deutscher Tropentag. Proceedings at Food security, natural resource management and rural development. Zurich, Switzerland. September 14-16, 2010.

Tikam, K., C. Phatsara, C. Mikled, T. Vearasilp, W. Phuphiphaat, J. Chobtang, A. Cherdthong, and K.-H. Südekum. 2013. Pangola grass as forage for ruminant animals: a review. Springer Plus 2: 604-613.

Tilley, J.M.A. and R.A. Terry. 1963. A two stage method for the *in vitro* digestion of forage crops. Journal of British Grassland Society 18: 104-111.

Tjandraatmadja, M., B.W. Norton and I.C. Mac Rae. 1994. Ensilage characteristics of three tropical grasses as influenced by stage of growth and addition of molasses. World Journal of Microbiology & Biotechnology 10: 74-81.

Tudsri, S., N. Pachanawan, S. Sawadipanich, N. Bumrung and Y. Jengnay. 1998. Productivity and quality of CP-Pangola (*Digitaria decumbens* cv CP-1) under

different management conditions I. Effect of frequency and height of cutting. Kasetsart Journal (Natural Sci.) 32: 265–274.

Tudsri, S., N. Pachanawan, N. Bumrung and Y. Jengnay. 1999. Productivity and quality of CP- Pangola (*Digitaria decumbens* cv. CP-1) under different managements II. Effects of nitrogen application and cutting frequency. Kasetsart Journal (Natural Sci.) 33: 21–32.

Van Neikerk, W. A., A. Hassen, F. M. Bechaz and R. J. Coertze. 2007. Fermentative attributes of wilted vs. unwilted *Digitaria eriantha* silage treated with or without molasses at ensiling. South Africa Journal of Animal Science 37: 261-268.

Van Soest, P.J., 1982. Chemistry of forages and feeds. In: Nutritional Ecology of the Ruminant. Cornell University Press,New York, pp. 75-151.

Van Soest, P. J. 1994. Nutritional Ecology of the Ruminant. 2nd ed. Cornell University Press, Ithaca, NY.

Van Soest, P. J., D. R. Mertens and B. Deinum. 1978. Preharvest factors influencing quality of conserved forages. Journal of Animal Science 47: 712-720.

Van Soest, P. J. and J B. Robertson. 1980. Systems of analysis for evaluation fibrous feeds. In: Pigden W. J., C. C. Balch and M. Graham (Ed.) Standardization of analytical methodology for feeds. International Development Research Centre Ottawa, Canada. 134 pp.

Van Soest, P. J., J. B. Robertson and B. A. Lewis. 1991. Methods for dietary fiber, neutral detergent fiber, and non starch polysaccharides in relation to animal nutrition. Journal of Dairy Science 74(10): 3583-3597.

Wattiaux, M.A. 1999. Protein metabolism in dairy cows. In: Dairy essential Babcock Institute, University of Wisconsin-Madison,US.

Wattiaux, M.A. and Grummer, 1999. Lipid metabolism in dairy cows. In: Dairy essential Babcock Institute, University of Wisconsin-Madison, US

Wilson, J.R. and P. M. Kennedy. 1996. Plant and animal constraints to voluntary feed intake associated with fibre characteristics and particle breakdown and passage in ruminants. Australian Journal of Agricultural Research 47: 199-225.

Weinberg, Z. G. and R. E. Muck. 1996. New trends and opportunities in the development and use of inoculants for silage. FEMS Microbiology Reviews 19: 53– 68.

Yang, C. M. J., S. C. Huang, T. Chang, Y. H. Cheng and C. T. Chang. 2004. Fermentation acids, aerobic fungal growth, and intakes of Napier grass ensiled with non fiber carbohydrates. Journal of Dairy Science 87: 630 – 636.

Ye, Z. H. 2002. Vascular tissue differentiation and pattern formation in plants. Annual Review of Plant Biology 53: 183–202.

Yeh, M. T. 1990. The effect of cutting interval on forage yield and quality in Pangola grass. Journal of Taiwan Livestock Research 23: 57-61.

Yitbarek, M.B. and B. Tamir. 2014. Silage additives: review. Open Journal of Appiled Sciences 4(5): 258-274.

Yokota, H., T. Okajima and M. Ohshima. 1991. Effect of environmental temperature and addition of molasses on the quality of Napier grass (*Pennisetum purpureum*) silage. Asian-Australasian Journal of Animal Science 4: 377-382.

Yokoyama, R. and K. Nishitani. 2006. Identification and characterization of *Arabidopsis thaliana* genes involved in xylem secondary cell walls. Journal of Plant Research 119: 189–194.

Yunus, M., N. Ohba, M. Shimojo, M. Furuse and Y. Masuda. 2000. Effects of adding urea and molasses on Napier grass silage quality. Asian-Australasian Journal of Animal Science 13:1542-1547.

Zehra Sariçiçek B. and Ünal KILIÇ. 2009. The effects of different additives on silage gas production, fermantation kinetics and silage quality. Ozean Journal of Applied Sciences 2: 1943-2429.

Zimmer, E., 1966. Die Neufassung des Gärfutterschlüssels nach Flieg. Das Wirtschaftseig. Futter 12: 299-303.