

## Reference List: Animal Husbandry

---

- Bergero, D., Forneris, G., Palmegiano, G. B., Zoccarato, I., Gasco, L., & Sicuro, B. (2001). A description of ammonium content of output waters from trout farms in relation to stocking density and flow rates. *Ecological Engineering*, 17(4), 451-455.
- Bergero, D., Boccignone, M., Di Natale, F., Forneris, G., Palmegiano, G.B., Roagna, L., Sicuro, B. (1994). Ammonia removal capacity of European natural zeolite tuffs: Application to aquaculture waste water. *Aquaculture Research*, 25(8), 813-821.
- Bernal, M. P., Lopez-Real, J. M., and Scott, K. M. (1993). Application of natural zeolites for the reduction of ammonia emissions during the composting of organic wastes in a laboratory composting simulator. *Bioresource Technology* 43, 35-39.
- Borja, R., Sánchez, E., Weiland, P., Travieso, L., & Martín, A. (1993). Effect of natural zeolite support on the kinetics of cow manure anaerobic digestion. *Biomass and bioenergy*, 5(5), 395-400.
- Durán-Barrantes, M. D. L. M., Álvarez-Mateos, P., Carta-Escobar, F., Romero-Guzmán, F., & Fiestas-Ros de Ursinos, J. A. (2008). Kinetics and effect of temperature in anaerobic fluidized bed reactors with clayey supports. *Chemical and Biochemical Engineering Quarterly*, 22(4), 393-399.
- Fethiere, R., Miles, R. D., & Harms, R. H. (1994). The utilization of sodium in sodium zeolite A by broilers. *Poultry science*, 73(1), 118.
- Hargreaves, J. A. (1998). Nitrogen biogeochemistry of aquaculture ponds. *Aquaculture*, 166(3), 181-212.
- Hill, C. (2012). Cherry Hill's horsekeeping almanac: The essential month-by-month guide for everyone who keeps or cares for horses. North Adams: Storey Publishing, LLC.
- Hogg, L.E.W. (2003). Zeolites: Absorbents, Adsorbents. Prepared for the 16<sup>th</sup> Industrial Minerals International Congress, April 6-9, 2003, Montreal Quebec.
- Karamanlis, X., Fortomaris, P., Arsenos, G., Dosis, I., Papaioannou, D., Batzios, C., & Kamarianos, A. (2008). The effect of a natural zeolite (clinoptilolite) on the performance of broiler chickens and the quality of their litter. *Asian-Aust J Anim Sci*, 21, 1642-1650.
- Katsoulos, P. D., Zarogiannis, S., Roubies, N., & Christodoulopoulos, G. (2009). Effect of long-term dietary supplementation with clinoptilolite on performance and selected serum biochemical values in dairy goats. *American journal of veterinary research*, 70(3), 346-352.
- Katayama, Y., Oikawa, M., Yoshihara, T., Kuwano, A., and Hobo S. (1995). Clinico-Pathological effects of atmospheric ammonia exposure on horses. *Journal of Equine Science* 6(3), 9-104.
- Kotsopoulos, T. A., Karamanlis, X., Dots, D., & Martzopoulos, G. G. (2008). The impact of different natural zeolite concentrations on the methane production in thermophilic anaerobic digestion of pig waste. *Biosystems engineering*, 99(1), 105-111.
- Lahav, O., Schwartz, Y., Nativ, P., & Gendel, Y. (2013). Sustainable removal of ammonia from anaerobic-lagoon swine waste effluents using an electrochemically-regenerated ion exchange process. *Chemical engineering journal*, 218, 214-222.

- Lefcourt, A. M., & Meisinger, J. J. (2001). Effect of adding alum or zeolite to dairy slurry on ammonia volatilization and chemical composition. *Journal of Dairy Science*, 84(8), 1814-1821.
- Lemay, S. P. (1999). Barn management and control of odours. *Advances in Pork Production*, 10, 81-91.
- Leung, S., Barrington, S., Wan, Y., Zhao, X., & El-Husseini, B. (2007). Zeolite (clinoptilolite) as feed additive to reduce manure mineral content. *Bioresource technology*, 98(17), 3309-3316.
- Macháček, M., Večerek, V., Mas, N., Suchý, P., Straková, E., Šerman, V., & Herzig, I. (2010). Effect of the feed additive clinoptilolite (ZeoFeed) on nutrient metabolism and production performance of laying hens. *Acta Veterinaria Brno*, 79(9), 29-34.
- Meisinger, J. J., Lefcourt, A. M., Van Kessel, J. S., Wiklerson, V. (2001). Managing ammonia emissions from dairy cows by amending slurry with alum or zeolite or by diet modification. *The Scientific World Journal* 1, 860-865.
- Milán, Z., Sánchez, E., Weiland, P., Borja, R., Martí, A., & Ilangovan, K. (2001). Influence of different natural zeolite concentrations on the anaerobic digestion of piggery waste. *Bioresource Technology*, 80(1), 37-43.
- Miller, R., Major, J., and Trinca, P. (2011, March). How a lagoon works for livestock wastewater treatment. Retrieved from [https://agwastemanagement.usu.edu/files/uploads/How\\_a\\_Lagoon\\_Works\\_2011.pdf](https://agwastemanagement.usu.edu/files/uploads/How_a_Lagoon_Works_2011.pdf)
- Mohri, M., Seifi, H. A., & Daraei, F. (2008). Effects of short-term supplementation of clinoptilolite in colostrum and milk on hematology, serum proteins, performance, and health in neonatal dairy calves. *Food and chemical toxicology*, 46(6), 2112-2117.
- Montalvo, S., Guerrero, L., Borja, R., Sánchez, E., Milán, Z., Cortés, I., & de la Rubia, M. A. (2012). Application of natural zeolites in anaerobic digestion processes: a review. *Applied Clay Science*, 58, 125-133.
- Montalvo, S., Díaz, F., Guerrero, L., Sánchez, E., & Borja, R. (2005). Effect of particle size and doses of zeolite addition on anaerobic digestion processes of synthetic and piggery wastes. *Process biochemistry*, 40(3), 1475-1481.
- Mumpton, F. A. (1999). La roca magica: uses of natural zeolites in agriculture and industry. *Proceedings of the National Academy of Sciences*, 96(7), 3463-3470.
- Mumpton, F. A. (1985, July). Using zeolites in agriculture. In *Innovative Biological Technologies for Lesser Developed Countries*, Washington, DC: US Congress, Office of Technology Assessment, OTA-13P-F-29.
- Mumpton, F. A., & Fishman, P. H. (1977). The application of natural zeolites in animal science and aquaculture. *Journal of Animal Science*, 45(5), 1188-1203.
- Nys, Y. (1999). Nutritional factors affecting eggshell quality. *Czech Journal of Animal Science (Czech Republic)*.
- Olver, M. D. (1997). Effect of feeding clinoptilolite (zeolite) to three strains of laying hens. *British poultry science*, 30(1), 115-121.

- Omar, L., Ahmed, O. H., and Majid, N. M. (2015). Improving Ammonium and Nitrate release from urea using clinoptilolite zeolite and compost produced from agricultural wastes. *The Scientific World Journal*, vol. 2015. doi: 10.1155/2015/574201
- Papaioannou, D., Katsoulos, P. D., Panousis, N., & Karatzias, H. (2005). The role of natural and synthetic zeolites as feed additives on the prevention and/or the treatment of certain farm animal diseases: A review. *Microporous and mesoporous materials*, 84(1), 161-170.
- Papaioannou, D. S., Kyriakis, C. S., Alexopoulos, C., Tzika, E. D., Polizopoulou, Z. S., & Kyriakis, S. C. (2004). A field study on the effect of the dietary use of a clinoptilolite-rich tuff, alone or in combination with certain antimicrobials, on the health status and performance of weaned, growing and finishing pigs. *Research in veterinary science*, 76(1), 19-29.
- Pourliotis, K., Karatzia, M. A., Florou-Paneri, P., Katsoulos, P. D., & Karatzias, H. (2012). Effects of dietary inclusion of clinoptilolite in colostrum and milk of dairy calves on absorption of antibodies against *Escherichia coli* and the incidence of diarrhea. *Animal feed science and technology*, 172(3), 136-140.
- Sadeghi, A. A., & Shawrang, P. (2008). Effects of natural zeolite clinoptilolite on passive immunity and diarrhea in newborn Holstein calves. *Livestock Science*, 113(2), 307-310.
- Shurson, G. C., Ku, P. K., Miller, E. R., & Yokoyama, M. T. (1984). Effects of zeolite A or clinoptilolite in diets of growing swine. *Journal of Animal Science*, 59(6), 1536-1545.
- Ullman, J. L., Mukhtar, S., Lacey, R. E., & Carey, J. B. (2004). A review of literature concerning odors, ammonia, and dust from broiler production facilities: 4. Remedial management practices. *Journal of applied poultry research*, 13, 521-531.
- Umana, O., Nikolaeva, S., Sanchez, E., Borja, R., & Raposo, F. (2008). Treatment of screened dairy manure by upflow anaerobic fixed bed reactors packed with waste tyre rubber and a combination of waste tyre rubber and zeolite: effect of the hydraulic retention time. *Bioresource technology*, 99(15), 7412-7417.
- Valpotic, H., Terzic, S., Vince, S., Samardzija, M., Turk, R., Lackovic, G., ... & Valpotic, I. (2016). In-feed supplementation of clinoptilolite favorably modulates intestinal and systemic immunity and some production parameters in weaned pigs. *Veterinarni Medicina*, 61(6), 317-327.
- Venglovsky, J., Pacajova, Z., Sasakova, N., Vucemilo, M., & Tofant, A. (1999). Adsorption properties of natural zeolite and bentonite in pig slurry from the microbiological point of view. *Veterinarni Medicina-UZPI (Czech Republic)*.
- Watkins, K. L., & Southern, L. L. (1991). Effect of dietary sodium zeolite A and graded levels of calcium on growth, plasma, and tibia characteristics of chicks. *Poultry science*, 70(11), 2295-2303.
- Weiss, S., Zankel, A., Lebuhn, M., Petrak, S., Somitsch, W., & Guebitz, G. M. (2011). Investigation of microorganisms colonising activated zeolites during anaerobic biogas production from grass silage. *Bioresource technology*, 102(6), 4353-4359.