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L. J. S. Allen* (linda.j.allen@ttu.edu), **V. L. Brown**, **C. B. Jonsson**, **S. L. Klein**, **S. M. Laverty**, **K. Magwedere**, **J. C. Owen** and **P. van den Driessche**. *Mathematical Modeling of Viral Zoonoses in Wildlife*.

Zoonoses are a worldwide public health concern, accounting for approximately 75% of human infectious diseases. In addition, zoonoses adversely affect agricultural production and wildlife. We review some mathematical models developed for the study of viral zoonoses in wildlife and identify areas where further modeling efforts are needed. (Received August 29, 2011)