

Jantimaporn Kamman 2007: An Analysis of Factors Affecting Supply and Demand for Hen Eggs in Thailand. Master of Science (Agricultural Economics), Major Field: Agricultural Economics, Department of Agricultural and Resource Economics.  
Thesis Advisor: Associated Professor Somsak Priebprom, Ph.D. 118 pages.

The objective of this study was to analyze factors affecting demand and supply of hen eggs in Thailand. An ordinary least square method was used to derive demand and supply equations using data from 1988-2005. The demand and supply model of hen eggs were tested for the validity of its predictive performance and then were used to forecast the hen eggs production and consumption during 2006 – 2010.

The analytical results indicated that the significant factors affecting supply of hen eggs were lagged farm prices of hen eggs, lagged farm prices of duck eggs, amount of live hens, cost of chicks, feed cost and an event of Avian Influenza in Thailand. The significant factors affecting demand for hen eggs were retail prices of hen eggs, retail prices of duck eggs, government policies related to hen eggs consumers and Avian Influenza event in Thailand.

The results of forecasting models of demand and supply of hen eggs showed that the demand for hen eggs will be decreased by 1.35 percent per year. Conversely, the supply of hen eggs will be increased slowly averaging 0.75 percent per year. Therefore, in order to avoid a problem of an excess supply of hen eggs in the next five years, a promotion of hen eggs consumption has to be done effectively.

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21 / 03 / 07