A Report on
Environmental Effects on Layer Farming at Rajbari Sadar under Rajbari District.

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This production report submitted as per approved style and content

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Abstract

Ten layer farms of Rajbari sadar under Rajbari district were selected to evaluate the effect of the different environmental condition on layer farming. Temperature (°C) and Relative Humidity (%) were recorded and concentrations of Carbon dioxide (CO_2ppm) and Ammonia (NH_3ppm) were determined. Productive performance of flock was evaluated by measuring Egg Production, Feed Consumption, Egg Weight and Eggshell Thickness. The tolerable temperature for the layer was 15-27°C. High temperature (above 27°C) affects Feed Consumption, Egg Weight and Eggshell Thickness while Relative Humidity has less impact on Egg Production, Egg Weight and Feed Consumption. Feed consumption and Egg Weight were decreased markedly when CO2 and NH3 concentration were more than 3000ppm and 37ppm respectively, but no effect on Eggshell Thickness. Postmortem examination indicated that 51, 24, 11, 9 and 5% birds were died due to bacterial, viral, non-infectious, Protozoal and fungal infection respectively. Improper environments reduced the chickens' defenses, making them more vulnerable to diseases.

Keywords: Temperature, Humidity, CO_2, NH_3, Layer farming.