

PENGARUH SUHU, KELEMBABAN DAN KADAR AMONIA TERHADAP *INDEX PERFORMANCE* (IP) BROILER DI KANDANG *CLOSED HOUSE* PT CIOMAS ADISATWA

**Oleh :
Rika Anjali Nasution**

RINGKASAN

Manajemen pemeliharaan ayam broiler harus dilakukan sebaik mungkin untuk mencapai *indeks performance* (IP) yang baik dan menghasilkan daging ayam yang berkualitas. Penelitian ini dilakukan bertujuan untuk menganalisis bagaimana pengaruh suhu, kelembaban dan kadar amonia terhadap *indeks performance* ayam broiler di kandang *closed house* khususnya di PT. Ciomas Adisatwa. Penelitian ini dilaksanakan pada bulan November 2023-Februari 2024 di peternakan ayam broiler PT. Ciomas Adisatwa, Desa Batanghari Ogan, Kecamatan Tegineneng, Kabupaten Pesawaran. Penelitian dilakukan selama 2 periode pemeliharaan dengan melakukan pengukuran suhu, kelembaban dan kadar amonia setiap hari pada pagi dan sore hari pukul 07.00 dan 17.00 wib. Berdasarkan hasil penelitian yang dilakukan, jumlah kadar amonia, hasil pengukuran suhu dan kelembaban di kandang peternakan ayam broiler PT. Ciomas Adisatwa tidak menjadi penyebab turunnya nilai *index performance* (IP) karena nilai rata-rata ketiga variabel masih diambang batas yang ditentukan dimana hasil rata-rata suhu adalah 28,5 – 31,3° C dan rata – rata kelembaban adalah 58,1- 66,9%, sementara kadar amonia bertambah seiring meningkatnya umur ayam.

Kata kunci: Amonia, Broiler, *Indeks Performance* (IP), Kelembaban, Suhu

THE EFFECT OF TEMPERATURE, HUMIDITY AND AMMONIA LEVELS ON THE PERFORMANCE INDEX (IP) OF BROILERS IN THE CLOSED HOUSE CAGE OF PT CIOMAS ADISATWA

By:

Rika Anjali Nasution

ABSTRACT

Broiler chicken rearing management must be done as well as possible achieve a good performance index (IP) and produce good chicken meat quality. The aim of the research was carried out with the aim of analyzing the influence of temperature, humidity and ammonia levels on chicken performance index broilers in closed house cages, especially at PT. Ciomas Adisatwa. This research implemented in November 2023-February 2024 on chicken farms broilers PT. Ciomas Adisatwa, Batanghari Ogan Village, Tegineneng District, Pesawaran Regency. The research was conducted during 2 maintenance periods by measuring temperature, humidity and ammonia levels every day in the morning and evening at 07.00 and 17.00 WIB. Based on research results, the amount of ammonia levels, the results of temperature and humidity measurements in broiler chicken farming cage PT. Ciomas Adisatwa was not the cause The *performance index* (IP) value decreased because the average value of the three variables was still at the specified threshold where the average temperature is 28.5 – 31.3 C and the average humidity is 58.1-66.9%, while the ammonia level increases as the age of the chicken increases.

Keywords: Ammonia, Broiler, Humidity, *Performance Index* (IP), Temperature