

**DEPLESI DAN INDEKS PERFORMANCE AYAM BROILER PADA  
KANDANG *CLOSED HOUSE* YANG MENGGUNAKAN DAN  
TANPA *INVERTER EXHAUST FAN***

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**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui nilai deplesi dan Indeks Performance (IP) ayam broiler pada kandang *closed house* yang menggunakan *inverter exhaust fan* dan tanpa menggunakan *inverter exhaust fan*. Penelitian ini dilaksanakan pada bulan 10 Maret 2023 – 24 April 2023, yaitu selama satu periode pemeliharaan ayam broiler di Peternakan Ayam Broiler Singaparna, PT. Mitra Berlian Unggas, Kecamatan Singaparna, Kabupaten Tasikmalaya, Jawa Barat. Metode yang digunakan yaitu metode riset antara pengamatan langsung (1 periode pemeliharaan) dan pemanfaatan data sekunder selama 5 (lima) periode pemeliharaan pada kandang yang sama. Perbandingan angka deplesi dan indeks performa antara kedua jenis kandang diuji menggunakan Uji *Independent Sample T-Test*. Hasil analisis uji *Independent Sample T-Test* menunjukkan bahwa tidak ada perbedaan yang signifikan antara deplesi pada kandang yang menggunakan *inverter exhaust fan* dan tanpa *inverter exhaust fan*. Deplesi pada kandang dengan penggunaan *inverter* (5,51%) cenderung lebih rendah bila dibandingkan dengan deplesi pada kandang tanpa *inverter* (7%). Demikian pula hasil analisis uji *Independent Sample T-Test* pada indeks performa menunjukkan tidak adanya perbedaan signifikan, namun IP pada kandang dengan penggunaan *inverter* cenderung jauh lebih tinggi yaitu sebesar 414 bila dibandingkan dengan IP pada kandang tanpa *inverter* yaitu sebesar 369.

Kata kunci: ayam broiler, kandang *closed house*, *inverter exhaust fan*, deplesi, Indeks Performance.

**DEPLETION AND PERFORMANCE INDEX OF BROILERS IN  
CLOSED HOUSE USING AND WITHOUT INVERTER  
EXHAUST FAN**

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**ABSTRACT**

This study aims to determine the depletion value and Performance Index (IP) of broiler chickens in closed house cages using an inverter exhaust fan and without using an inverter exhaust fan. This research was conducted on March 10 2023 – April 24 2023, that is during one period of rearing broilers at the Singaparna Broiler Farm, PT. Mitra Berlian Poultry, Singaparna District, Tasikmalaya Regency, West Java. The method used is a research method between direct observation (1 period of maintenance) and utilization of secondary data for 5 (five) periods of rearing in the same cage. Comparison of depletion rates and performance indices between the two types of cages was tested using the Independent Sample T-Test. The results of the Independent Sample T-Test analysis showed that there was no significant difference between depletion in the cages using an inverter exhaust fan and without an inverter exhaust fan. Depletion in cages with inverters (5.51%) tends to be lower than depletion in cages without inverters (7%). Likewise the results of the Independent Sample T-Test analysis on the performance index showed no significant difference, but the IP in the cages with the use of an inverter tended to be much higher, namely 414 when compared to the IP in the cages without an inverter, which was 369.

Keywords: broiler chickens, closed house cages, inverter exhaust fans, depletion, Performance Index.