

Abstract

Ostrich is the largest live bird in Africa that belongs to the family of rites, meaning the hidden breasts, due to its high metabolism and high adaptability to the environment and in terms of maintenance, the lowest cost in livestock it dedicated. The purpose of this study is to determine the optimum time for ostrich sales. To this end, a dynamic random programming model was used support optimal livestock decision making and its profitability. This model is a non-convex random function, which includes two types of economic and biological variables and their interaction. The data collected from 30 ostriches with an average age of 3 months in year 96 and analyzed using MATLAB software. In order to calculate the best ostrich sales time, their weights calculated in kilograms per month and their average values calculated in 12 months. The results showed that in the eight-month period of ostrich breeding that lasts from April to November, the value of sales is higher than the maintenance value in November. So, November, the end of the age of 11 months is the most suitable time to sell ostriches for their meat. if the producer wants to benefit from other ostriches, such as reproduction, during the period from 9 to 12, from December to March, in contrast to the first 8 months of the first year, the value of the maintenance of the sales value is higher and, as a result, the livestock breeder for more profit, Keeps your ostriches.

Key words: decision analysis, simulation, ostrich, dynamic random programming method



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