Population Parameters and Biomass of African Buffalo (Syncerus caffer) in Kainji Lake National Park, Nigeria

¹ O.T. Aremu, ²S. A. Onadeko, ²B.A. Ola-Adams and ²E.I. Inah

¹Department of Forestry and Wildlife, Faculty of Agriculture, University of Benin, Benin City, Nigeria. ²Department of Forestry and Wildlife Management,

College of Environmental Resources Management,

University of Agriculture, Abeokuta, Nigeria

Abstract: The study examined some population parameters such as relative abundance, distribution, population composition and biomass of Syncerus caffer in Kainji Lake National Park. Six, 4x4 km transects were constructed in the Park with an effective study area of 96 km². Transects were traversed twice a month for 12 months. Estimates were based on direct censusing techniques only. The results revealed that riparian forest and woodland habitat harboured the highest population of Syncenls caffer in both dry and wet seasons 9 and 5 groups, respectively with a total of 149 ± 8.17 individuals, while Diospyros mespliformis dry forest harboured the least of 20 ± 2.84 individuals. Population compositions of Syncerus caffer were significantly difference (p<0.05) in both dry and wet seasons. A total Syncerus caffer biomass of $54.57\pm1.0.9$ kg km-2 was recorded in the Park. Measures for adequate conservation of existing Syncerus caffer population in the Park are discussed.

Keywords: Abundance, buffalo, distribution, population, biomass, national park