

عنوان مقاله:

Survival strategy—Temporal segregation of different age and sex classes of a Bengal Tiger (*Panthera tigris tigris* Linnaeus) population in a Tropical Deciduous Forest of Central India

محل انتشار:

نشریه تنوع جانوری، دوره 5، شماره 3 (سال: 1402)

تعداد صفحات اصل مقاله: 0

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خلاصه مقاله:

Temporal activity patterns of different age and sex classes of a Bengal tiger population were studied at Pench Tiger Reserve, Madhya Pradesh between May 2006 and July 2009 using systematic camera traps. Based on the exact time of photo-capture tigers, information on temporal activity patterns of following age and sex categories of individual tiger: such as Resident male ($n= 55$ photographs), female with cubs or breeding female ($n= 70$ photographs), female without cubs or non-breeding female ($n= 72$ photographs) and transient male ($n= 42$ photographs), were recorded. It was observed that breeding females significantly utilized different activity period with transient male ($P < 0.001$) and female without cubs ($P < 0.001$) whereas overall activity period between breeding female and resident male did not differ significantly ($P > 0.6$) during the study period. The observed temporal segregation may provide valuable information on cub survival strategies adopted by breeding tigress, finally, aiming at their reproductive success in a tropical deciduous forest. This paper will act as a catalyst, advancing the adoption of camera trap based reproductive behavioral study of any illusive large carnivore at in situ condition.

کلمات کلیدی:

Activity time scale, behavior ecology, Pench Tiger Reserve, survival pattern

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