The current state of invasive Rose-ringed Parakeet (Psittacula krameri manillensis) around the Tokyo area

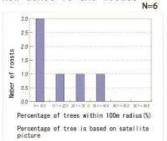
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Roosts environment

There are six roosts that have been confirmed, three of which were bamboo groves. In other places, 3 to 4 Ginkgo trees (Ginkgo biloba), Linden (Tilia maximowicziana) and Himalayan Cedar (Cedrus deodara) were used as roosts. Rose-ringed Parakeet (Psittacula krameri manillensis) seems to prefer an open environment with few tall trees and high-rise buildings around the roost. Concerned about attacks from predators, they change the location of the roost in the winter when Linden tree leaves fall. Although Ginkgo is also a deciduous tree, Rose-ringed Parakeet can escape the attack from predators because of its fine branches, so they use it even in winter.

Environment	Tree species	Roost size(m')
University carpus	Ginkgo billoba	300. 85
Park	Tilia maximowicziana	646, 06
Park	Cedrus deodara	163. 25
Residential area	Bamboo grove①	1167.12
Residential area	Bamboo grove(2)	1057. 20
Residential area	Bamboo grove(3)	206.74

How dense is the woods?





The Red-breasted parakeet/Poillacula alexandria fasciata) also is in the roost with the Rose-ringed parakeet

Distance between roost and nest



Nests environment

Since Rose-ringed Parakeet nests in the tree hollows, and holes and gaps of buildings, competitions with Grey Starling (Sturnus cineraceus), Japanese Green Woodpecker (Picus awokera) and Brown Hawk Owl (Ninox scutulata) were confirmed. And like roost environment, Rose-ringed Parakeet seems to prefer the open environment with few tall trees and high-rise buildings. The entrance of the nest is high from the ground in many places, and it is confirmed that it breeds even at the lighting of the stadium of 34 m in height(Fig. 1, 2).



Adult male and five chicks in a

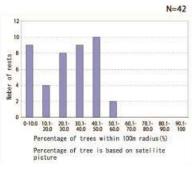


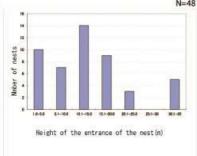


Nests environment Building 7(16.7%) Artifact 33.3% Nature 20(47.6%) 66.7%

1(2,4%) 1(2,4%) Pinus densifiora 1(2.4%)

How dense is the woods?





Dietary preference

We inferred that Rose-ringed Parakeet could survive even in winter with some fruits such as Japanese persimmons (Diospyros kaki) in gardens and parks and some foods from bird feeders. Previously, when they eat foods, they do not get off on the ground, but in recent years it has been reported as a rare case that they get off on the ground. Due to these changes, it is expected that food resources that could not be acquired so far will be available, and there are concerns that not only fruit trees but also agricultural damages to field products would be expanded.

Spring

Summer





Roadside charry trees