



JAVAN RHINO MANAGEMENT THROUGH RHINO MONITORING UNIT IN UJUNG KULON NATIONAL PARK

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Rhinos, one of the most recognized and threatened species on the planet are one of world's most important biological treasures. The two species of rhino found in Indonesia and also in Borneo, the Javan rhino (*Rhinoceros sondaicus*, Desmarest 1822) and the Sumatran Rhino (*Dicerorhinus Sumatrensis*). The Javan rhinoceros (*Rhinoceros sondaicus* Desmarest, 1822) is claimed to be one of the rarest mammals on earth with a population of only 60 individual rhinos in UKNP. None survive outside, even in zoos. It's population can be identified successfully using camera trap data. Monitoring Javan rhino population is one of the priority activities mandated by the Minister of Forestry Regulation No. P.43 / Menhut-II / 2007 on Strategy and Action Plan for Indonesian Rhino Conservation. Since 1967, the rhino population has been monitored using the footprint count method (Schenckel and Schenckel, 1969). Since 1994 – 2010 this methodology gave an estimated population size of 50-60 individuals. This method only produces the estimation of the population and the age. It was never showed the exact number and the sex ratio. To improve the accuracy of the data, in 2011, the UKNP authority tried a new method to monitor the population using video trap camera done by a trained field team "Rhino Monitoring Unit (RMU)". This led to the most recent estimation of 58 individuals in 2013. From this data, it is possible to say the population is stable. The goal of RMU's activity is to provide better management of Javan rhino conservation at Ujung Kulon National Park.

Objectives

- To get on accurate data of population number, sex ratio and age structure of Javan rhino.
- To enhance the data analysis of Javan rhino population monitoring.
- To provide management input for the Javan rhino conservation.

Expected Outcomes and Benefits

- Provide basic data about Javan rhino population such as number, sex ratio and age structure as the main part for increasing the javan rhino population.
- Gain knowledge of the behaviour of the rhino and the distribution pattern of the population.
- Document the population's reproductive activities.
- Understand how the rhino interacts with the ecosystem in terms of food plants and other fauna.

MANAGING SOUTHERN WHITE RHINOS IN A DYNAMIC MIXED SPECIES EXHIBIT WITH EXTENDED HOURS

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Currently at Disney's Animal Kingdom (DAK), 2.5 Southern white rhinos ranging in age from 2 to 25 are exhibited with 0.2 addax, 0.3 common zebra, 0.5 ostrich, and 2.0 bontebok on the 11 acre "East Savanna". Overnight, they are housed separately in a 6,341 sq ft barn. Animals shifting to a barn in response to a cue can be a challenge in such a dynamic environment. Attraction vehicles are cycling through at a continuous rate all day and can briefly block the animals' paths. Hay drops have to be strategically timed so that both rhinos and hoof stock get an appropriate amount of food without being distracted during cue attempts. New animals were introduced into the exhibit space and affected the interspecies interactions. Environmental factors such as the daily Florida summer storms and the

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History of Rhino Management

Javan Rhino (*Rhinoceros Sondaicus*)



Rhino Monitoring Unit

Highlights Rhino Management

☐ **Javan Rhino Population increasing**

☐ **The teams are able to make systematic report regarding the demographic of javan rhino from the video camera's data (number or population, the ratio of male and female, age structure and home range.**

☐ **Zero Poaching**



Challenges Of Rhino Program



- Illegal activity / Illegal visitor
- Inbreeding
- Rhino death

Future Effort and Goals

Minister of Forestry Regulation
No.P.43/Menhut-II/2007 on Strategy and
Action Plan for Indonesian Rhino
Conservation 2007 – 2017.

Future Effort :
Habitat Management
Proposing revision of zoning (Controlling
invasive species).

Population Management

Goals :

Increasing javan rhino population

1 site - Javan Rhino Sanctuary (Jarhisca)

Second Habitat / second population

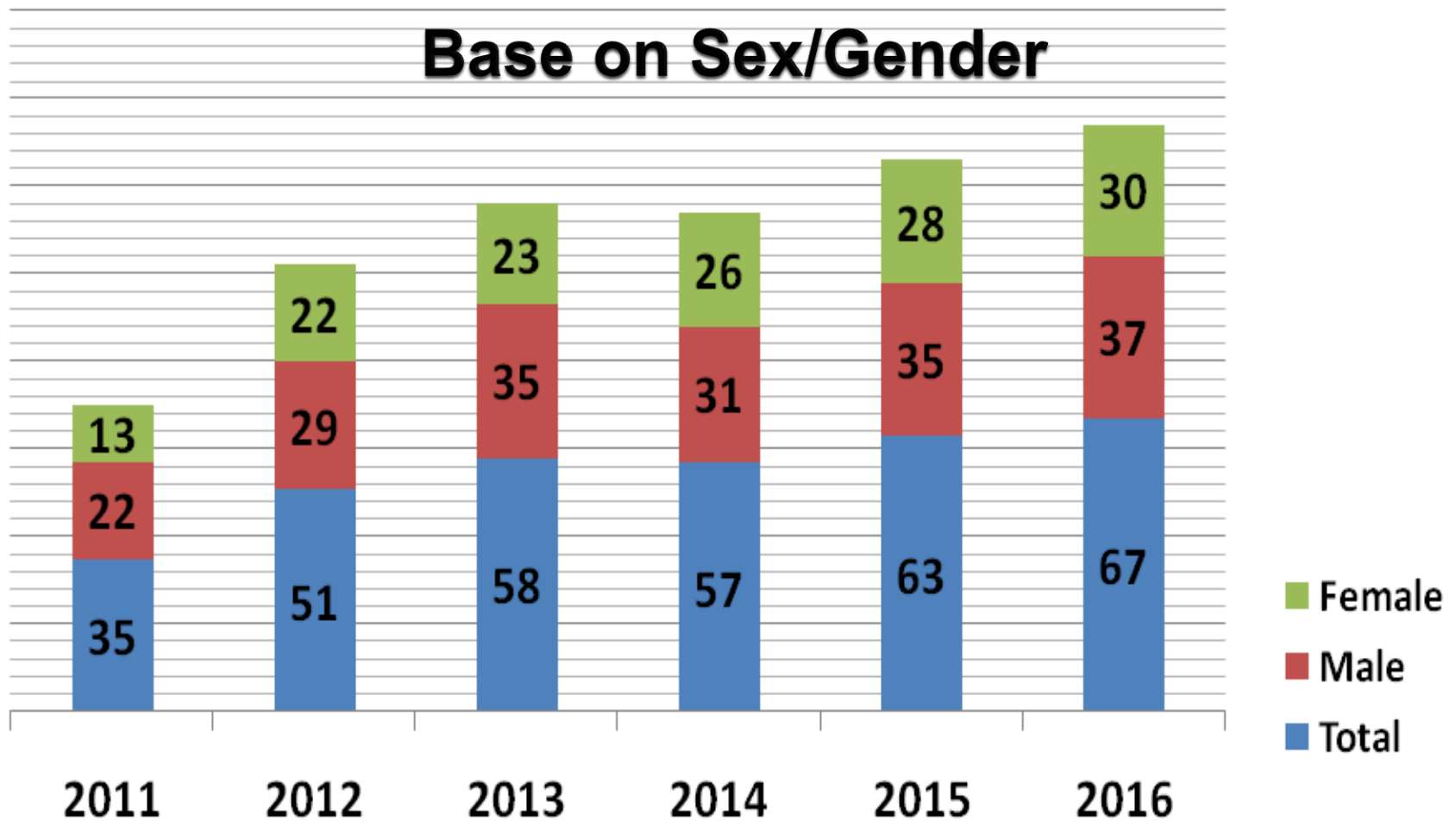
Pushnell

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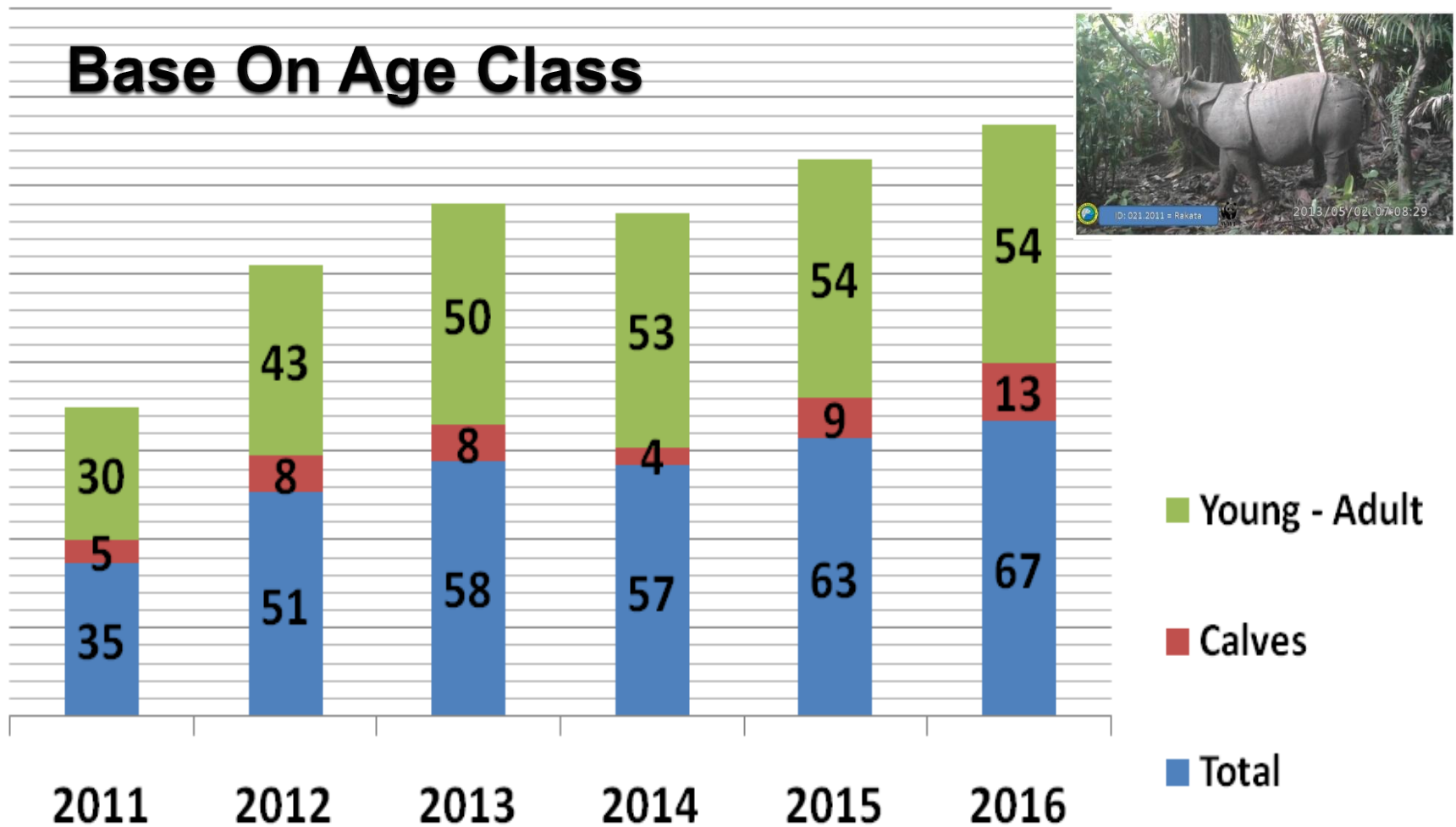
Other Information

Javan Rhino Population 2011 - 2016

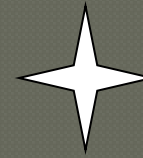


Javan Rhino Population 2011 - 2016

Base On Age Class



Ujung Kulon National Park



Skala 1 : 206.223



Terima Kasih

