



ARDB 2019. AFRICAN RAPTOR DATABANK:
a secure, live data observatory for the
distribution and movements of African raptors.
Habitat Info Ltd, Solva, UK.
www.habitatinfo.com/ardb_observatory/
02/12/2019: 14:56:10

890 Bat Hawk

Machieramphus alcinus IUCN Status **Least Concern**
IUCN (2019-2)

male mass = 620 g
female mass = 630 g
mean mass = 625 g

area requirement (of pair/2.2 individuals) = 13 km²

from Newton (1979) figure 10: $area\ km^2 = 0.4 + (0.02 * female\ mass\ g)$
replaced by direct measurement of field density where we have data

this figure is used for estimating density of breeding individuals and offspring in good habitat
we assume twice the area requirement in suboptimal habitat
and half the area requirement in optimal habitat
breeding population estimates represent theoretical maxima where habitat is saturated
nest-site limitation and the floating / non-breeding population are not yet fully accounted for

HABITAT SPACE ANALYSIS

	extent (km ²)	individuals	pairs
suboptimal 25-50% suitable	6225451	526769	239440
good habitat 50-70% suitable	2059119	348466	158394
optimal habitat 70-100% suitable	329640	111570	50714
total habitat 25-100% suitable	8614210	986806	370052

reporting rate from mobile app survey data

2014 (26724 km) : 0.003742 birds per 100 km
2015 (87188 km) : 0.004588 birds per 100 km
2016 (81150 km) : 0.007394 birds per 100 km
2017 (57721 km) : 0.003465 birds per 100 km
2018 (19798 km) : 0.025256 birds per 100 km

