

Scat Detection Dogs

and their handlers are invaluable research allies

This **winning team** is versatile and effective in a range of locations and conditions; they are critical allies for collecting samples used in wildlife research.

Q. Why is finding scat important to Cheetah Conservation?

A.

Collecting scat samples allows us to perform genetic analysis, dietary studies, health assessments and derive demographic data of wild cheetahs without actually interfering with the study animals. This helps us gather valuable information and make more informed conservation decisions.

What is the best method for finding scat

Walking transects give diverse (complete) results effectively across all study areas (road network, cheetah density, habitat, etc....).

Driving transects are great for detecting marking sites and when conditions are right, driving is a super-efficient option.

□ walking□ drivingIt depends!



Disruption Reduction

Non-invasive monitoring techniques like Scat Detection Dogs can significantly enhance the monitoring of elusive species like cheetahs.

These techniques are crucial for effective wildlife conservation, providing reliable data on animal demography faster and at a lower financial cost.



Key Benefits of Walking Transects for Scat Detection



Adaptability to Site Conditions

Walking transects are more adaptable to varying environmental conditions. Handlers can modify their search patterns based on immediate observations and the dog's behavior.



Focused and Detailed Searches

Walking transects allow for a detailed examination of the environment. Detection dogs have more time to pick up scents and investigate potential marking sites closely, which can lead to higher detection rates and accuracy in identifying actual cheetah scats.

Key Benefit of Driving Transects for Scat Detection



Efficient Searches

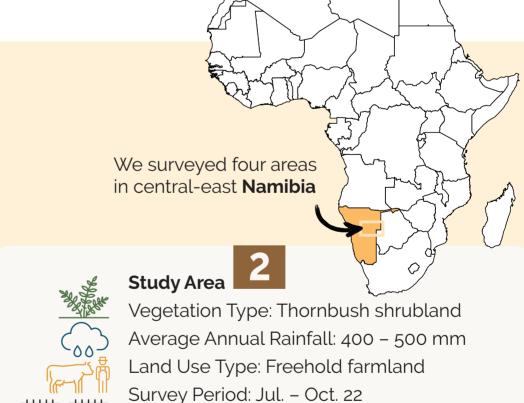
Vehicular searches are faster and more efficient because they cover larger areas in less time, allowing for quicker identification of marking sites when roads are available.

Study Area Overview & Biome Characteristics



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Vegetation Type: Central Kalahari Average Annual Rainfall: 350 – 450 mm Land Use Type: Freehold farmland Survey Period: May – Sep. 21 Survey Area: 4096 km²





Study Area

Vegetation Type: Northern Kalahari Average Annual Rainfall: 350 – 400 mm Land Use Type: Communal farmland Survey Period: Jul. – Oct. 22 Survey Area: 2304 km²



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Study Area

Vegetation Type: Centra

Survey Area: 2048 km²

Vegetation Type: Central Kalahari Average Annual Rainfall: 350 – 400 mm Land Use Type: Communal farmland Survey Period: Aug. 23 Survey Area: 2048 km²



With a Scat Detection Dog, walking transects for scat detection consistently yielded higher marking site frequencies, and detected cheetah presence in all areas. Walking transects also yielded samples away from marking sites that were randomly found on roads. Vehicular searches were more time-efficient when marking sites were readily available. Cheetah Conservation Fund recommends using an adaptive scat detection strategy (both walking and driving) to optimize marking site searches and walking transects to find scat away from marking sites.

