

3/30/16

# Group 1 Temperature and Soil Moisture

## Site #1:

Location: <sup>under tree</sup> near center Time of Day: 3:15 pm Temperature: 31.3°C <sup>moisture</sup> Additional Data: 6.9%

Description/Observations: In a grassy area with green and yellow grass.  
- near a tree

Amount of cover: Shade under tree

## Site #2:

Location: <sup>Ditch outside</sup> of center Time of Day: 3:20 pm Temperature: 34.1°C Additional Data: 6.0%

Description/Observations: In a dried ditch on the side of the road.

Amount of cover: No shade, direct sunlight

## Site #3:

Location: <sup>Hill</sup> Time of Day: 3:26 pm Temperature: 34.2°C Additional Data: 4.0%

Description/Observations: On a dry hill with lots of rocks

Amount of cover: In direct sunlight

## Conclusions:

1. Select the site you think is the most suitable for a cheetah when it needs to rest after the chase or during the hotter hours of the day when it is not hunting and feeding but needs a place to rest. Explain what features make this good site for the cheetah.

Site #1 is the most suitable for a cheetah when it needs to rest ~~after~~ because it has the lowest temperature and the highest moisture out of all of the sites. After being overheated, a cheetah would most likely want to go to a cooler area to rest. Also, the tree provides cover for the cheetah.

# Group 3

## Temp Relative Humidity

### Site #1: Behind the

Location: creamery Time of Day: 3:11 pm Temperature: 32.6°C Additional Data:  
(90.7°F) Relative humidity: 23.7%

Description/Observations: Partial sun, partial shade  
some grass

Amount of cover: partial tree cover (15 feet from the tree)

### Site #2:

Location: Under a tree next to the goat kraal Time of Day: 3:21 pm Temperature: 31.1°C Additional Data:  
(88.2°F) Relative humidity: 24.81%

Description/Observations: Full shade  
ample ground cover

Amount of cover: ample ground cover  
under a tree

### Site #3:

Location: In road near creamery Time of Day: 3:25 pm Temperature: 32.6°C Additional Data:  
(90.7°F) Relative humidity: 22.38%

Description/Observations: Patch of open dirt + rocks (gravel)

Amount of cover: Bare (none)

## Conclusions:

1. Select the site you think is the most suitable for a cheetah when it needs to rest after the chase or during the hotter hours of the day when it is not hunting and feeding but needs a place to rest. Explain what features make this good site for the cheetah.

We believe that Site #2 is most suitable for a cheetah. Site #2 had many trees and the land was well protected from the sun. It was more humid due to some leaves' inability to have its moisture evaporated by the sun. Additionally, the tree provides protection and is a form of camouflage to be used against predators.