# Teacher's Guide for "Track Data Collection Sheet"

This sheet has examples on how students might fill out their data sheets, including measurements and other data for tracks and scat. Measurements within 0.5 cm or even 1.0 cm of what's on the teacher's guide should be considered acceptable.

## Tracks

Students will choose one track from each animal to report on in their data collections sheets. It doesn't matter what track they choose. Students from the same group should all report on the same track.

For each track students identify:

1. The area they found the track in (A, B, C, or D).
2. The track "number," found above each track (this is for teacher identification).
3. Whether it's from a front or back foot.
4. The number of toes in the track (this can be different from the actual number of toes on the animal ).
5. The length of the track, in centimeters.
6. The width of the track, in centimeters.
7. The students must also draw the track into the grid to the best of their ability. In this teacher's guide we have simply placed the track images used for the activity in the grid, but student drawings will look much different. Students should do their best job to draw the track in the grid but perfection is not required!

## Scat

Students can examine their scat cards. We don't ask students to measure the scat or scat pellets, but they can if they wish. Students should draw a picture of the scat (they can try to approximate the size but it doesn't have to be exact) and mark other information about it. Students should mark:

1. The shape of the scat (circle or oval shape, tubular, chain, or other)
2. If there's a single scat or multiple scat
3. The animal the scat is from

**For both the tracks and scat students compare their observations and collected data to the animal information sheets, and identify the animal that visited their station.**


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**Measurements for Tracks and Scat:**

See below for measurement estimate for each individual track.

Please be aware - if your files were resized this information could be incorrect

Measurements below are rounded to the nearest 0.5 cm. However, small differences in ruler angle can easily change the measurement by +/- 0.5 cm. Measurements with 0.5 cm, or even 1.0 cm, should be considered acceptable.

Otter (Area A):

Track #1 - Length is ≈ 7.0 cm
Width is ≈ 6.0 cm

Track #2 - Length is ≈ 6.0 cm
Width is ≈ 5.0 cm

*width is a challenge to measure on this track, other answers may be acceptable*

Track #3 - Length is ≈ 5.5 cm
Width is ≈ 4.0 cm

Track #4 - Length is ≈ 5.5 cm
Width is ≈ 5.0 cm

Scat is ≈ 8.0 cm long


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## Measurements for Tracks and Scat (cont):

Measurements below are approximate to the nearest 0.5 cm.

Porcupine (Area B):

Track #1 - Length is ≈ 10.0 cm
Width is ≈ 3.5 cm

Track #2 - Length is ≈ 9.0 cm
Width is ≈ 3.0 cm

Track #3 - Length is ≈ 6.0 cm
Width is ≈ 2.5 cm

Track #4 - Length is ≈ 5.5 cm
Width is ≈ 3.0 cm

Scat pellets are ≈ 0.5 cm long

Elk (Area C):

Track #1 - Length is ≈ 8.5 cm
Width is ≈ 6.5 cm

Track #2 - Length is ≈8.0 cm
Width is ≈ 6.5 cm

Scat pellets are ≈ 1.5 cm long

Rabbit (Area D):

Track #1 - Length is ≈ 3.0 cm
Width is ≈ 1.5 cm

Track #2 - Length is ≈ btwn 7.5-8.0 cm
Width is ≈ 2.5 cm

Scat pellets are ≈ 0.5 cm long


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# Track Data Collection Sheet

Track is from Area *A: Klamath River, Hehlkeek 'We-Roy* Track #*4*

Is the track from a FRONT foot or BACK foot? *Front*

Draw the track in the grid below!

How many toes do you see? *5*

What is the LENGTH of the track? *5.5 cm*

What is the WIDTH of the track? *5.0 cm*

This track is from (circle one) Elk **River Otter** Rabbit Porcupine

Did you see any other animals? Which one(s)? *Elk*

A collaboration between: SCIENCE DELIVERED!
Dr. Seafha Ramos
Cherie Paul
Maximiliano Quezada

With additional support from many individuals. (Please see webpage)

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# Track Data Collection Sheet

Track is from Area ___*B: Forest, Tepoonohl*___ Track #___*2*___

Is the track from a FRONT foot or BACK foot? ___*Back*___

Draw the track in the grid below!

How many toes do you see? ___*5*___

What is the LENGTH of the track? ___*9.0 cm*___

What is the WIDTH of the track? ___*3.0 cm*___

This track is from (circle one) Elk River Otter Rabbit Porcupine

Did you see any other animals? Which one(s)? ___*None*___

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Teacher's Guide for "Track Data Collection Sheet"

# Track Data Collection Sheet

Track is from Area *C: Prairie, Sepolah* Track # *1*

Is the track from a FRONT foot or BACK foot? *Front*

Draw the track in the grid below!

How many toes do you see? *2*

What is the LENGTH of the track? *8.5 cm*

What is the WIDTH of the track? *6.5 cm*

This track is from (circle one) Elk River Otter Rabbit Porcupine

Did you see any other animals? Which one(s)? *Rabbit*

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# Track Data Collection Sheet

Track is from Area ___*D: Creek, Raak*___ Track #___*2*___

Is the track from a FRONT foot or BACK foot? ___*Back*___

Draw the track in the grid below!

How many toes do you see? ___*4*___

What is the LENGTH of the track? ___*8.0 cm*___

What is the WIDTH of the track? ___*2.5 cm*___

This track is from (circle one) Elk River Otter Rabbit Porcupine

Did you see any other animals? Which one(s)? ___*Otter*___


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# Scat Data Collection Sheet

Scat can be

Circle/Oval Shape

Tubular (like a tube)

In a Chain

Scat is from Area _____*A*

*Either answer is acceptable for shape. This illustration looks tubular, and the scat can be that shape. But scat is often mostly fish bones and scales and can be amorphous. Look up some real otter scat images to show students!*

Scat is (circle one)

Circle/Oval Shape Tubular Chain Other

How many scat? (circle one)

One scat Many scat

Scat is from a (circle one)

Elk River Otter Rabbit Porcupine

Draw scat here

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Scat is from Area _____*B*

Scat is (circle one)

Circle/Oval Shape Tubular Chain Other

How many scat? (circle one)

One scat Many scat

Scat is from a (circle one)

Elk River Otter Rabbit Porcupine

Draw scat here

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Teacher's Guide for "Track Data Collection Sheet"

# Scat Data Collection Sheet

Scat can be

Circle/Oval Shape

Tubular (like a tube)

In a Chain

Scat is from Area _____C_____

Scat is (circle one)

Circle/Oval Shape Tubular Chain Other

How many scat? (circle one)

One scat Many scat

Scat is from a (circle one)

Elk River Otter Rabbit Porcupine

Draw scat here

Scat is from Area _____D_____

Scat is (circle one)

Circle/Oval Shape Tubular Chain Other

How many scat? (circle one)

One scat Many scat

Scat is from a (circle one)

Elk River Otter Rabbit Porcupine

Draw scat here

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# Final Report

What animals did you find in the different areas during your survey?

Area A: River

What animal's tracks and scat did you find? *Otter*

Did you record any mammal sightings? Which? *Elk*

Area B: Forest

What animal's tracks and scat did you find? *Porcupine*

Did you record any mammal sightings? Which? *None*

Area C: Prairie

What animal's tracks and scat did you find? *Elk*

Did you record any mammal sightings? Which? *Rabbit*

Area D: Creek

What animal's tracks and scat did you find? *Rabbit*

Did you record any mammal sightings? Which? *Otter*

Notes:

*Students can write notes of challenges or successes they had. Maybe one of the tracks was harder to measure or identify, or maybe they were unsure of the shape of some of the scat, etc.*



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