

# Otter Spotter Activity Pack



Otters are shy and elusive animals which makes them difficult to spot. Instead, we use otter spraint to help to monitor their presence in the West Midlands and the UK.



**Page 2:** Otter Plotter 2020 – 2020 coordinate activity sheet

**Page 3:** Otter Plotter 2022 – 2022 coordinate activity sheet

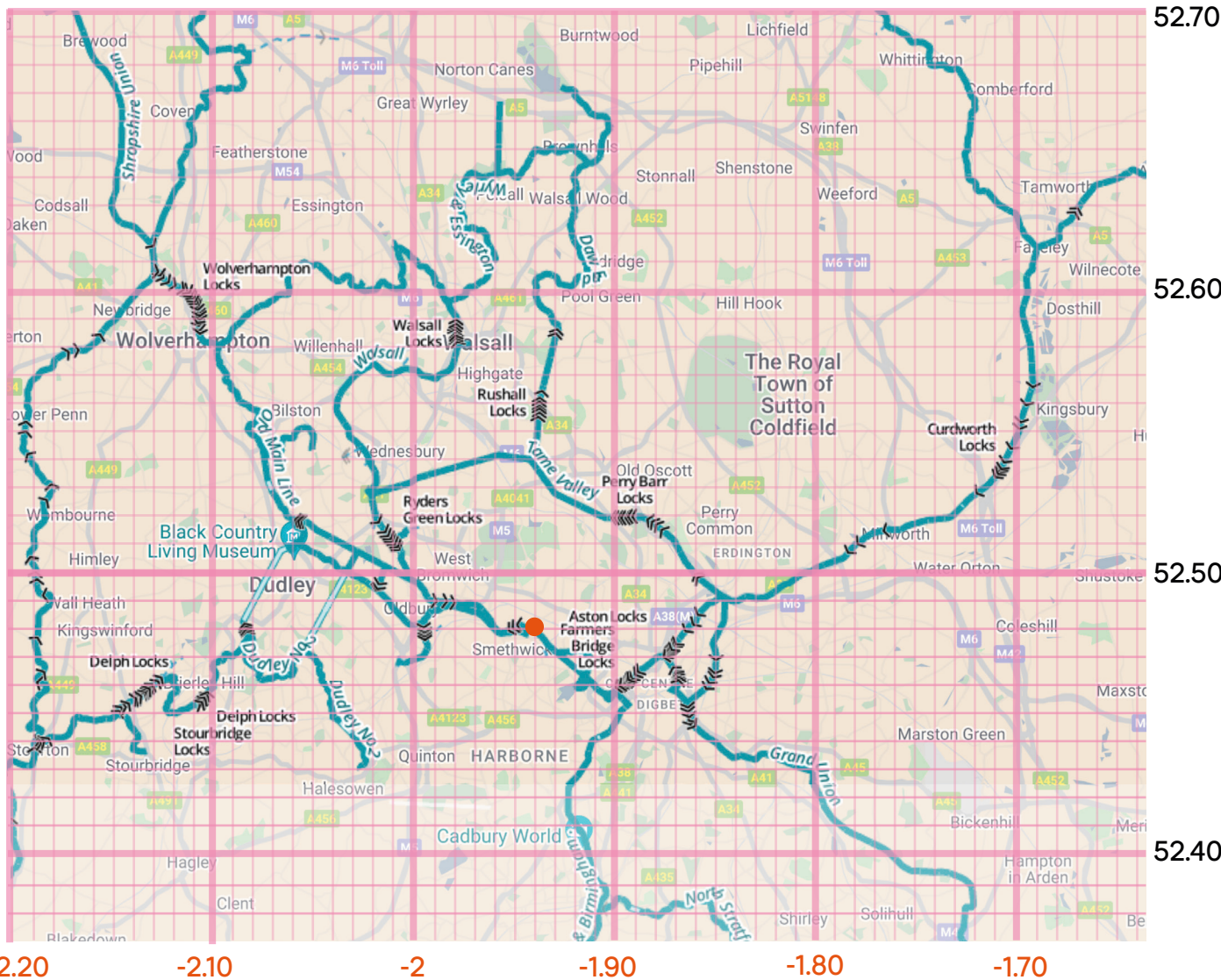
**Page 4:** Human Activity Results – Comparative bar chart activity sheet (modeled)

**Page 5:** Human Activity Results – Comparative bar chart activity sheet

**Page 6:** Vegetation Results – Pie chart activity sheet

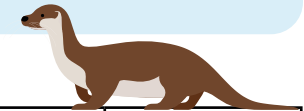


# Otter Plotter 2020



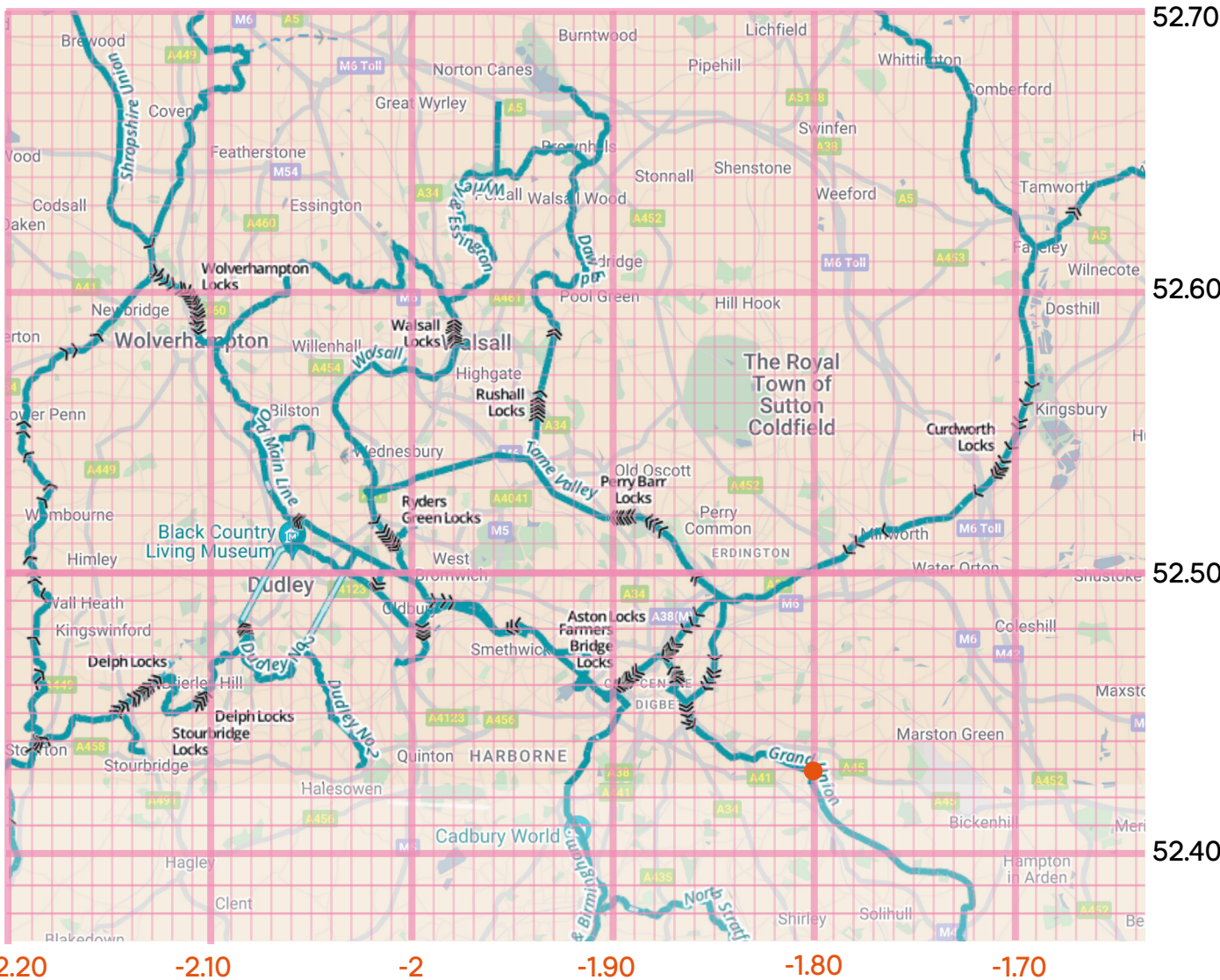
## 2020 Otter Spraint Records

GPS coordinates are long! Round them to two decimal places on the table below. Then plot them on the map to find the locations of the otters! We have done the first one just to get you started.



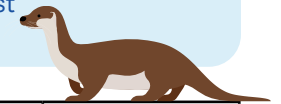
	x-axis (west) rounded to 2 decimal places	y-axis (north) rounded to 2 decimal places
52.480978 north -1.942002 west	-1.94	52.48
52.627411 north -2.145485 west		
52.404858 north -1.762975 west		
52.386093 north -1.910771 west		
52.531378 north -1.717311 west		

# Otter Plotter 2022



## 2022 Otter Spraint Records

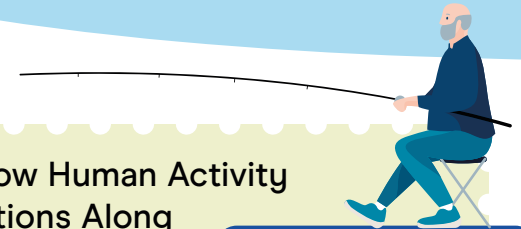
GPS coordinates are long! Round them to two decimal places on the table below. Then plot them on the map to find the locations of the otters! We have done the first one just to get you started.



	x-axis (west) rounded to 2 decimal places	y-axis (north rounded to 2 decimal places
52.429027 north -1.801394 west	-1.80	52.43
52.473107 north -1.922158 west		
52.491979 north -1.970821 west		
52.504496 north -1.766031 west		
52.509392 north -1.806029 west		
52.463795 north -2.042904 west		
52.513989 north -1.781309 west		
52.520674 north -1.748779 west		
52.533549 north -1.926913 west		
52.573549 north -2.028913 west		

# Human Activity Results

Volunteers collected information about **human activity** at **five locations** along the Birmingham Canal Navigations. Each site was surveyed for 1 hour and the results are recorded below.



Location	Walkers/cyclists	Boats	Anglers
A	4	3	1
B	5	3	0
C	9	3	4
D	2	5	3
E	8	6	5

Complete the comparative bar chart with the rest of the data.



- Otter spraints were **not found** anywhere near locations A and B.
- Locations C, D, and E are all sites where otter spraints **have been found**.



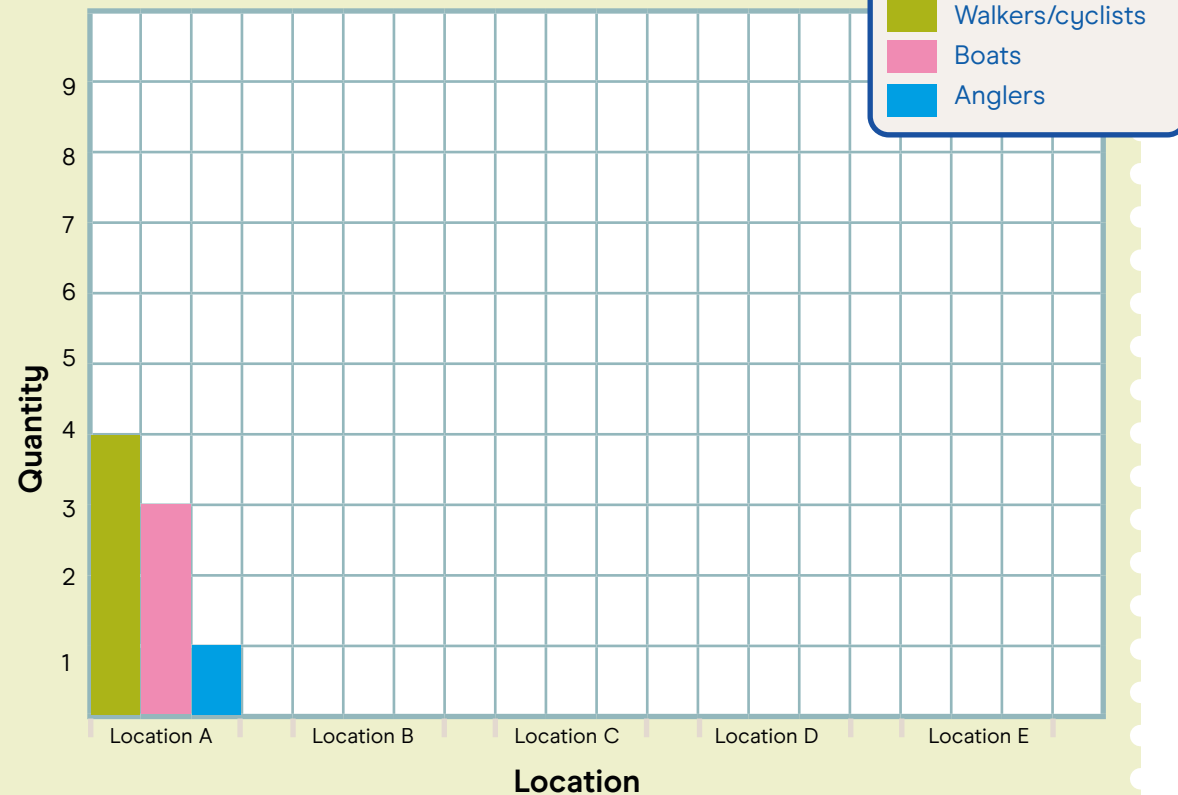
What conclusions can we make from this data?

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.....

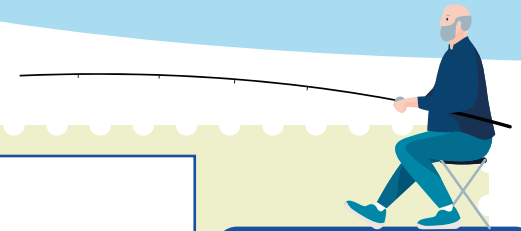
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Comparative Bar Chart to Show Human Activity At Five Different Locations Along The Birmingham Canal Navigations




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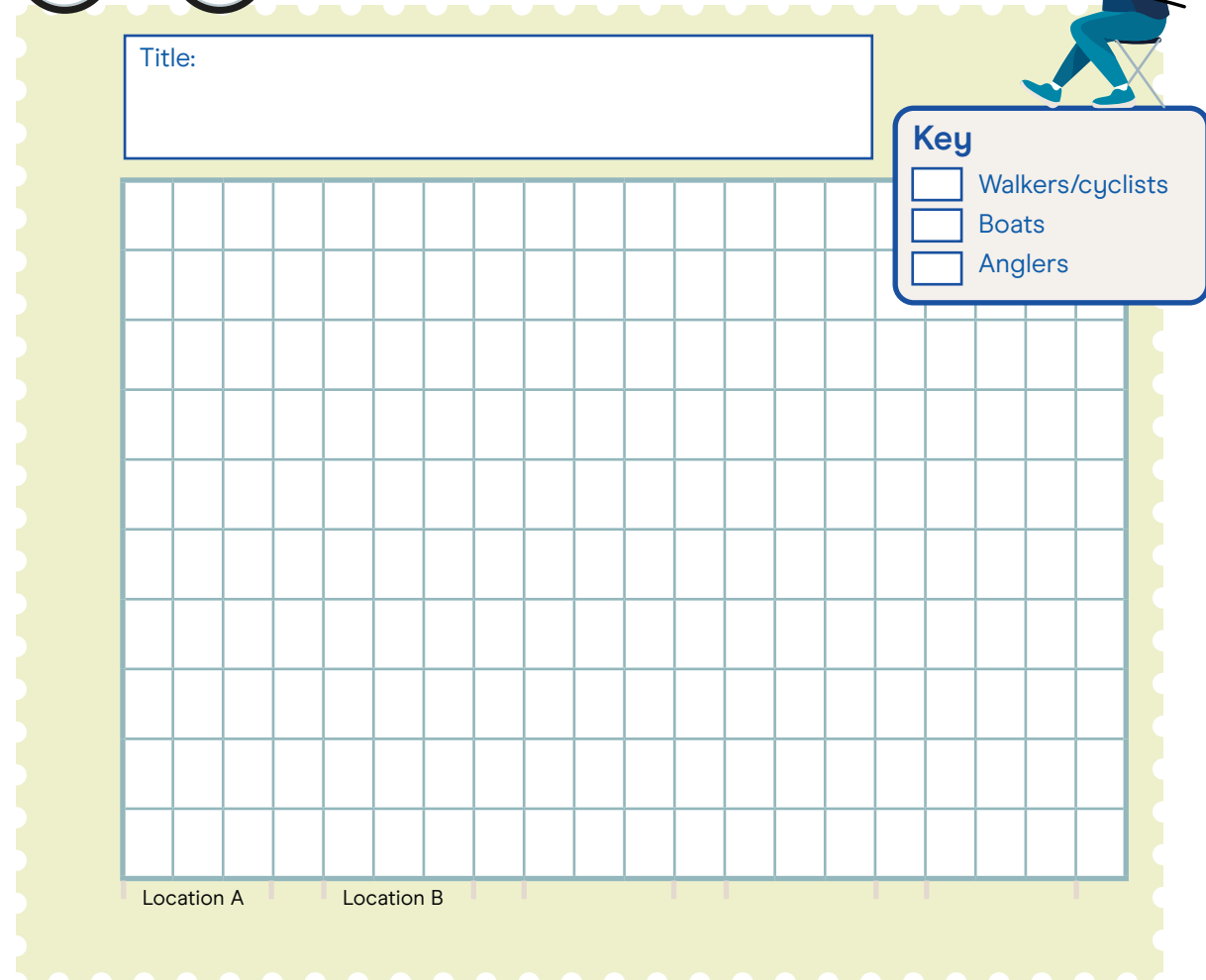


What conclusions can we make from this data?

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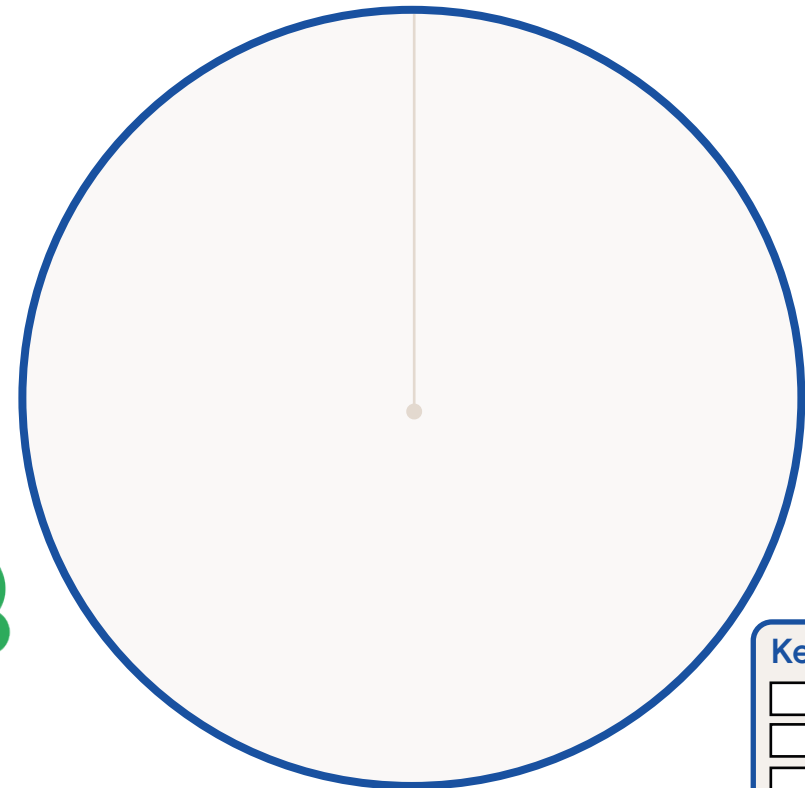


# Vegetation Results

The survey revealed that otter spraints were found in areas where there was a wide range of different types of vegetation. Let's take a look at one of those sites in the table below.

Vegetation	Quantity	Calculation	Degrees
Trees	9		
Shrubs	11		
Herbs	7		
Grasses	3		
Total		Total	360°

A Pie Chart to Show the Variety of Vegetation Found at One Otter Spraint Site



**Key**

<input type="checkbox"/>	Trees
<input type="checkbox"/>	Shrubs
<input type="checkbox"/>	Herbs
<input type="checkbox"/>	Grasses

Create a pie chart to help to visualise the data.

- Which type of vegetation represents nearly one quarter of the data?
- What fraction of the pie chart do herbs and grasses together make?
- Grasses represent what percentage of the pie chart?
- What is the difference in degrees between the smallest and largest segments of the pie chart?
- How many more trees would be needed to account for exactly one third of the current total of data?