RSPB Pulborough Brooks

Names: **Date:**

Today we will be investigating the **biodiversity** of different habitats at RSPB Pulborough Brooks and how these habitats are managed for wildlife and for people.

Freshwater sampling

We will be collecting information about a freshwater ditch

Can you think of 2 different abiotic **factors we could record to help us investigate this habitat?**

1.

2.

Now can you think of 2 different biotic **factors that we could record?**

1.

2.

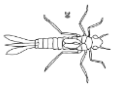
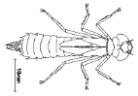
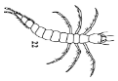
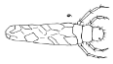
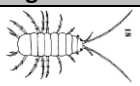
What type of equipment could we use to collect this information?

What method will you use to calculate the biotic index?

Freshwater sampling

Management regimes	For wildlife	
	For people	
Biotic factors	Plant species	
	Biotic index (see next page)	
Abiotic factors	Light level (lux)	
	Water temperature (°C)	
	Water pH	
	Observations & comments	

Freshwater sampling – Biotic index

Animal	Biotic score	Present?	Animal	Biotic score	Present?
Animals with 6 legs					
 Greater water boatman	5		 Lesser water boatman	5	
 Mayfly nymph	10		 Damselfly nymph	6	
 Dragonfly nymph	8		 Water beetle larvae	5	
 Caddisfly larvae	7		 Water beetle	5	
 Pond skater	5		 Water scorpion	5	
Animals with more than 6 legs					
 Freshwater shrimp	6		 Water louse	3	
 Water mite	4		 Water flea	5	
Animals with no legs					
 Bloodworm	2		 Flatworm	4	
 Leech	2		 Phantom midge larvae	5	
Animals with a shell					
 Rams-horn snail	3		 Pond snail	3	

Total score:

Number of different species present:

Biotic index (total score ÷ number of different species present):

Vegetation sampling

We will be collecting information about a woodland habitat.

Can you think of 2 different abiotic factors we could record to help us investigate this habitat?

1.

2.

Now can you think of 2 different biotic factors that we could record?

1.

2.

What type of equipment could we use to collect this information?

Vegetation sampling

Habitat:
Time:
Weather:

Management regimes	For wildlife	
	For people	
Abiotic factors	Air temperature (°C)	
	Ground temperature (°C)	
	Light (0 dark – 2000 light)	
	Soil moisture (1 dry - 10 wet)	
	Soil pH (8 alkaline – 3.5 acidic)	
Biotic factors	Plant species (minimum 4)	
	Invertebrates recorded	
	Evidence of wildlife	