

# How to calculate the health of your site

Use this table to calculate your Stream Pollution Index (SPI).

This number gives you a guide to how healthy or polluted your waterway is.

Weight Factor Table	
Number of each bug found (column B)	Weight Factor (column C)
1 to 2	1
3 to 5	2
6 to 10	3
11 to 20	4
more than 20	5

	A	B	C	D
Bug Type	Sensitivity Rating	Number of bugs found	Weight Factor	column A x column C
<b>Step 1:</b> Enter how many of each type of bug found into column B.				
<b>Very Sensitive Bugs</b>				
Stonefly Nymph	10			
Mayfly Nymphs	9			
<b>Sensitive Bugs</b>				
Alderfly Larva	8			
Caddisfly Larva	8			
Water Mite	6			
<b>Tolerant Bugs</b>				
Beetle Larva	5			
Dragonfly Nymph	4			
Water Strider	4			
Whirligig Beetle and Larva	4			
Freshwater Yabby/Crayfish	4			
Damselfly Nymph	3			
Fly Larva and Pupa	3			
Midge Larva and Pupa	3			
Freshwater Mussel	3			
Nematode	3			
Freshwater Sandhopper	3			
Freshwater Shrimp	3			
Water Scorpion/Needle Bug	3			
<b>Very Tolerant Bugs</b>				
Diving Beetle	2			
Flatworm	2			
Hydra	2			
Water Treader	2			
Freshwater Slater	2			
Waterboatman	2			
Freshwater Worm	2			
Backswimmer	1			
Bloodworm	1			
Leech	1			
Mosquito Larva and Pupa	1			
Freshwater Snail	1			
<b>Totals</b>				
<b>Step 2:</b> Find the Weight Factor from the table for each type of bug. Enter these into column C.				
<b>Step 3:</b> Multiply column A by column C and put this number into column D.				
<b>Step 4:</b> Add up column C.				
<b>Step 5:</b> Add up column D.				
<b>Step 6:</b> Divide the total of column D by the total of column C.				
<b>Step 7:</b> Use your score to determine the rating from the table below.				

Stream Pollution Index (SPI) =  $\frac{\text{Total of column D}}{\text{Total of column C}}$

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## What your SPI score means

Stream Pollution Index	Stream Quality Rating
Less than 3	= Poor
3 to 4	= Fair
4 to 6	= Good
More than 6	= Excellent