

Hilltop cattle

Activity sheet A – Trace elements questions

- 1 What are the names of the four farms with unhealthy cattle?
- 2
 - a) What symptoms has the vet noticed in the unhealthy cattle?
 - b) What does the vet think may be causing the illness?
- 3 Look at the information in Table 1 on the 'Information sheet – Trace elements'.
 - a) Which trace elements are present in low levels in the livers of unhealthy cattle?
 - b) Which trace elements are present in higher levels in the livers of unhealthy cattle?
- 4 Use 'Map – The farms and streams of Hilltop' to complete the table showing the streams supplying water to each farm.

Stream	1	2	3	4
Farms				

- 5 Look at the information in Table 2 on the information sheet.
 - a) Do any of the streams supplying the farms with unhealthy cattle contain large amounts of any trace element listed in your answer to **3a)**?
 - b) Are any of the streams supplying the unsuccessful farms deficient in any trace element, which may therefore be missing from the diet of the unhealthy cattle?
 - c) Do any of the streams supplying the farms with unhealthy cattle have a large amount of any of the trace elements listed in your answer to **3b)**?
- 6 What do you think is the cause of the problems with the cattle on some farms?