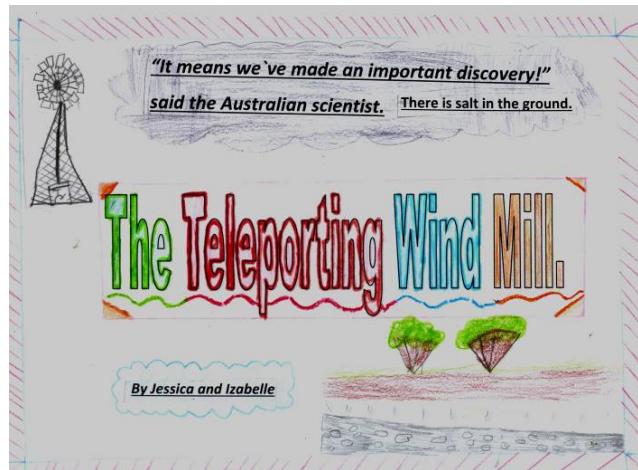


# Sustainability and our Farmlands

**Farms** grow **crops** and **stock** on the land. From these, we get **food** and **fibre**. **Native** and **introduced plants** and **creatures** live on farms too. These are all **living** things. There are also **non-living** things on farms, both **natural (soil, water, air)** and **man-made (infrastructure, machinery)**. All these parts may be in a **farming environment**.



This story is about a farm and a **20<sup>th</sup> Century Australian Science discovery** that is used on farms. It may be new knowledge and/or an **invention**. How did this help the farmer and change his farmwork?

*Use the text, details in the pictures, and Key Science Ideas pages to find the answers to the questions below. (Some, but not all, help is given.)*

- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' did Mary have in this story? (pages 1-4)
  - b What new knowledge did Mary get about the land of her farm?
  - c How could that new knowledge change farming? (pages 12 & 16)
  
- 3
  - a Name the Australian Scientist who discovered this knowledge?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how people helped this problem appear. (pages 11 & 14)
  - b How long has it been since it was first understood in Australia?
  - c Describe the newer knowledge of the history of the land that helped make this problem that was hidden from the first settlers.

**Sustainable farming** is looking after the whole environment, so that  
**1** crops and stock grow well (and the farmer makes a profit), and  
**2** all the other parts also continue well into the future.

**5** Do you think the Scientific discovery in this story helped make farms more sustainable? Why/not?