

Mark Scheme

1. Award **1 mark** for:

■ *over 100 years / more than 100 years.*

Do not accept 100 / 100 years ago.

1 mark

2. Award 1 mark for any of the following:

1. (Californian) orchards

2. orange / fruit trees.

Do not accept trees / fruit.

1 mark

3. Award **1 mark** for each of the following, up to a maximum of **2 marks**:

1. *(the) invasion*

2. *(were) attacking*

3. *(almost) destroyed.*

Also accept:

4. *thousands (of)*

5. *ruining (all).*

Up to 2 marks

4. Award **1 mark** for reference to any of the following:

1. orange / fruit trees were being killed / orchards destroyed, eg:

- *because they were killing the orange trees*
- *fruit trees were dying*
- *farmers were having to burn all their orange trees to get rid of them.*

2. the fruit industry was on the point of being destroyed, eg:

- *otherwise the fruit industries would be ruined.*

3. the problem was spreading to other parts of America / the country, eg:

- *the scale insects were starting to spread to other parts of America.*

4. reference to the speed at which the insects were spreading, eg:

- *the insects were spreading quickly.*

Accept quotations that meet the acceptable points.

1 mark

5. Award **1 mark** for reference to the fact that the fruit growers tried to destroy the trees by burning them / using pesticides, eg:
- *pulling up the fruit trees then burning them*
 - *they burnt the fruit trees*
 - *the fruit growers used pesticides / bug spray.*

Do not accept reference only to them pulling up / chopping down the trees.

1 mark

6. 1. Award **1 mark** for answers that refer to Mr Riley suggesting that other insects could be introduced to kill / eat the scale insects, eg:

- *other insects might be found to eat the scale insects*
- *introducing other insects to eat the pests.*

Also accept the quotation:

- *(that the scale insects might be controlled by) introducing other insects to feed on them.*

Do not accept responses which refer to sending ladybirds to California.

1 mark

2. Award **1 mark** for answers that refer to other people not listening to him or reacting with scorn / disbelief, eg:

- *no one thought it could work*
- *everyone thought it was a daft idea*
- *he got laughed at.*

Also accept direct quotations, eg:

- *But no-one listened to him*
- *They thought it was a crazy idea.*

1 mark

7. Award **1 mark** for any of the following:

1. ate a huge quantity (of scale insects), eg:

- *that the ladybirds ate and ate and stuffed themselves.*

2. ate (the scale insects) quickly, eg:

- *they ate the scale insects as fast as they could.*

3. enjoyed eating (the scale insects), eg:

- *that the ladybirds loved eating them.*

Do not accept simple statements that the ladybirds ate them / were hungry.

8.

Acceptable points	Acceptable evidence
1. the speed at which they destroyed the scale insects	<ul style="list-style-type: none"> • <i>(just) a few days</i> • <i>astonishing</i>
2. the speed at which the ladybirds multiplied / the size of the increase	<ul style="list-style-type: none"> • <i>staggering (rate)</i> • <i>reference to the fact that the increase was from 350 to 10,000</i>
3. the ruthlessness / thoroughness of the ladybirds	<ul style="list-style-type: none"> • <i>cleared all the scale insects</i> • <i>wiped out</i> • <i>(unlikely) warriors</i>
4. the surprise at the result / unlikelihood of the success	<ul style="list-style-type: none"> • <i>unlikely (warriors)</i> • <i>able to harvest (two to three boxes)</i>
5. the change in fortune for the grower(s)	<ul style="list-style-type: none"> • <i>abandoned all hope</i> • <i>able to harvest (two to three boxes)</i>

Award **3 marks** for reference to at least three acceptable points **or** two acceptable points with text-based evidence for at least one, eg:

- *It says 'staggering' to show the increase in ladybirds was really fast. He also says the insects were cleared out really quickly. [AP2 + evidence, AP1]*
- *It says 'unlikely warriors' to show everyone was surprised at how well they did and they did it really quickly. [AP4 + evidence, AP1]*

Award **2 marks** for reference to two acceptable points **or** one acceptable point with text-based evidence, eg:

- *The farmers didn't think they would get any fruit but things got better and some were able to harvest 3 boxes from each tree. [AP5 + evidence]*
- *He says they multiplied rapidly. The scale insects were killed really quickly. [AP2, AP1]*

Award **1 mark** for reference to one acceptable point, eg:

- *because you would not have thought they could save the fruit industries [AP4]*
- *the ladybirds totally destroyed all the scale insects. [AP3]*

Also accept, for a maximum of **1 mark**, relevant quotations taken from the paragraph without a link to an acceptable point, eg:

- *...they cleared all the scale insects from the trees in just a few days*
- *he uses words like staggering, wiped out and astonishing.*

Do not accept generic reference to powerful or effective language choices, eg:

- *he uses powerful and effective words*
- *by using great vocabulary to exaggerate the ladybirds.*

up to 3 marks

9. Award **1 mark** for:

Statement	True	False
They help protect the environment.	✓	
They only eat scale insects.		✓
They can survive on just nectar and pollen.		✓
Some people say that they bring you good luck.	✓	

1 mark