



**TRULOFF
PRAWN FARM**

Stopping White Spot Syndrome

WORKSHEET

YEAR 7-10

This resource has been developed by:



 **Seafood Careers Australia**



FRDC
FISHERIES RESEARCH AND
DEVELOPMENT CORPORATION

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Biosecurity is vital in protecting Australian prawn farms from the risk of white spot syndrome and other aquatic diseases. By implementing strong biosecurity measures, farms can effectively prevent the introduction of diseases, contain outbreaks, maintain their export markets, and safeguard the environment. This ensures the long-term sustainability and viability of the aquaculture industry.



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Scan the QR code or click on the link to learn about the impact of white spot syndrome on an Australian prawn farm.

Record your answers to the questions in the spaces below.



▶ **Truloff Prawn Farm**
(5:13)
<https://www.youtube.com/watch?v=flwEoR7n4sM>
Image credit: FRDC



a) What is white spot syndrome, and which crustaceans does it affect?

1. It's a bacterial infection that affects all crustaceans.
2. It's a viral infection that affects all decapod crustaceans.
3. It's a fungal disease that affects lobsters.
4. It's a parasitic infection that affects plankton.

b) Describe the measures taken in the video to prevent the spread of white spot syndrome.

c) Explain the potential advantages that Australia has over other countries in terms of biosecurity.

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Scan the QR code or click on the link to view the Landline video about the impacts of white spot syndrome on the Australian prawn industry in 2017.

After watching the video, complete the response activity below.



> **The Raw Prawn**
(21:20)

<https://www.abc.net.au/news/rural/programs/landline/2017-05-01/the-raw-prawn/8486718>



What are they thinking?

- d) White spot syndrome poses a serious threat to Australia's prawn industry and its **stakeholders**. Stakeholders are individuals, groups, or organisations with an interest in a particular industry. The prawn industry has many stakeholders, including farmers, fishers, processors, consumers, government, anglers, and the community.

What might each stakeholder be thinking about the impacts of white spot syndrome?



CONSUMER



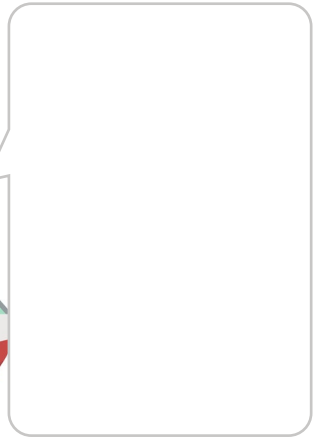
PRAWN FARMER



RECREATIONAL ANGLER



WILD CATCH FISHERS



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e) Follow the steps below to design your own concept cartoon.

- Design a question about managing white spot syndrome involving at least four stakeholders.
- Record it in the space below.
- Draw an image of each stakeholder in the boxes and identify who they are.
- Swap your question with another person and complete each other's concept cartoon.



Question:

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Answers

- a) 2
- b) Suggested answers include: quarantine protocols, testing, and biosecurity measures.
- c) Suggested answers include: Australia's geographic isolation, strong regulatory framework, public awareness initiatives, and commitment to research and collaboration give it a significant advantage in maintaining high biosecurity standards compared to many other countries.
- d) Suggested answers include:
- Consumer:** The cost of great-tasting Australian prawns has increased as there is less availability due to white spot syndrome.
 - Prawn farmer:** If my prawns become infected with white spot syndrome and need to be destroyed it will devastate my business.
 - Wild catch fishers:** Infections in our area mean I can only sell the prawns I catch after they have been cooked, limiting my business to local customers.
 - Recreational angler:** I should only use bait purchased locally to prevent the risk of contaminating waterways when I am fishing.
- e) Student answers will vary.

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AUSTRALIAN CURRICULUM CONTENT

Design and Technologies Year 7-10

Analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments (**AC9TDE8K01**)

Analyse the impact of innovation and the development of technologies on designed solutions for global preferred futures (**AC9TDE8K02**)

Analyse how people in design and technologies occupations consider ethical, security and sustainability factors to innovate and improve products, services and environments (**AC9TDE10K01**)

Analyse the impact of innovation, enterprise and emerging technologies on designed solutions for global preferred futures (**AC9TDE10K02**)

References

- Fisheries Research and Development Corporation, & The Australian Prawn Farmers Association. (2022, March 6). Truloff Prawn Farm. [www.youtube.com. https://www.youtube.com/watch?v=flwEoR7n4sM](https://www.youtube.com/watch?v=flwEoR7n4sM)
- ABC. (2017, May 1). The Raw Prawn. Landline. <https://www.abc.net.au/news/rural/programs/landline/2017-05-01/the-raw-prawn/8486718>

ATTRIBUTION, CREDIT & SHARING



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