STORM & FLOOD INDUSTRY RECOVERY PROGRAM

A project of the Primary Industries Education Foundation Australia

Cultivating Classrooms: Farming in the digital age

Creating resilience through empowering school curriculums about primary industries careers.

une University of New England

Faculty of Science, Agriculture, Business and Law

PIEFA
The leader in food and fibre education

Presented by:
Ben Holmes
SFIRP Project Manager

piefa.edu.au/sfirp

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ACKNOWLEDGEMENT OF COUNTRY

PIEFA acknowledges Traditional Owners of Country throughout Australia (Armidale - Anaiwan people) and recognises the continuing connection to lands, waters and communities. We pay our respect to Aboriginal and Torres Strait Islander cultures; and to Elders past and present.

Introduction

- PIEFA -who, why and what.
- PIEFA Conference 2025
- SFIRP program
- PIEFA surveys
- PIEFA upcoming events and programs
- PIEFA resources
- Practical activities

Activity: Blooket

My Sets

1. Use laptop/Ipad or Mobile phone
2. Google search “Play Blooket”
3. Select “join a game”
4. Add Game ID
5. Create nickname
6. 5 minute time limit

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Who Are We?

PIEFA is a not-for-profit foundation formed through a collaboration between the Australian Government, primary industries organisations and the education sector.

Through a range of online and in-person programs, we enhance food and fibre knowledge and understanding to young Australians through the development and promotion of:

- **teaching materials** about food and fibre for students in K-12
- **teacher professional development** opportunities
- **career pathway** information, including scholarships

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Current challenges to food and fibre education

1 **TEACHING CRISIS**
Casual and skilled teacher shortages.

2 **LACK OF RESOURCES**
Locally relevant, up to date, industry engagement, careers.

3 **DECLINE IN FOCUS ON FOOD & FIBRE**
Too hard, too expensive, not enough champions.

4 **LACK OF UNDERSTANDING**
Career prospects, diversity of opportunities, future of industry

5 **RURAL URBAN DIVIDE**
Distances, opportunities, urban agriculture not well understood.

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Australian and state-based curriculum challenges

1. **AUSTRALIAN VS STATE CURRICULUM**
   NESA vs ACARA
2. **PRESCHOOL TO YEAR 6**
   Many opportunities to teach food and fibre.
3. **YEARS 7-10**
   Stage 4 Technology Mandatory - Cross curriculum links.
4. **YEARS 11-12**
   Agriculture, VET Primary Industries and board endorsed courses such as Aviation-remote pilot, farm mechanics and aquaculture.
5. **CAREERS INITIATIVES**
   Work education stage 5, stage 6 Work studies, VET courses, work placement, work experience.

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PIEFA'S PROGRAMS

Enhancing food and fibre education and career pathways for young Australians.

www.primezone.edu.au
primezone
The place for all your food and fibre resources

Curriculum-aligned, Australian farming, fishing & forestry classroom lessons for F - 12.

primezone.edu.au

primezone ACADEMY
Student Food & Fibre eLearning Courses.

An eLearning portal providing access to food and fibre courses for students.

primezoneacademy.edu.au

Farmer Time

K-12 students connect with a farmer, fisher or forester, ask questions and take a virtual tour.

farmertime.com.au

CAREER HARVEST

Primary industries careers information, including courses, scholarships & pathways.

careerharvest.com.au

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Online teacher forums, SFIRP PD opportunities, and newsletter sign-up.

piefa.edu.au

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PIEFA'S PROGRAMS

Enhancing food and fibre education and career pathways for young Australians.

AG CAREER START
LEARN. GROW. FARM.

Gap year program that provides a paid job, training and development for people aged 17-25.

agcareerstart.com.au

farm safety ace
• ASSESS • CHANGE • ENGAGE

Resource package that addresses safety issues on farms.

piefa.edu.au/future-farm-safety-for-life

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Creating resilience through empowering school curriculums about primary industries.

piefa.edu.au/sfirp

STEM Food + Fibre
TEACHER PD SERIES
Presented by PIEFA and NSW DPI

Online and in-person Teacher PD opportunities throughout the year.

primezone.edu.au/stem-teacher-pd

KNOWING GROWING

Teacher PD run in collaboration with NSW DPI and RASNSW.

knowingandgrowing.edu.au

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PIEFA Conference Growing the NEXTGEN of food and fibre education.

https://www.piefa.edu.au/wp-content/uploads/2023/05/2023program_for_

GROWING THE NEXTGEN OF FOOD AND FIBRE EDUCATION

KEYNOTE SPEAKERS

KEYNOTE 1: The Future of Primary Industries

Michael McQueen
Multi-award winning speaker, trend forecaster and bestselling author

Troy Setter
Chief Executive Officer, Consolidated Pastoral Company
Chairman, Council of RDCs, LiveCorp and Dolly's Dream

Emma Germano
President, Victorian Farmers' Federation
Managing Director, I Love Farms
Director, The Queen Victoria Market

KEYNOTE 2: Innnovation in Food & Fibre

Prof. David Lamb
Chief Scientist, Food Agility Cooperative Research Centre

Renee Anderson
Cotton Grower, Consultant
Owner/Manager, Anderson Farming

Natâsa Sikman
Deputy CEO, People, Culture and Processes
Senior Climate Policy Manager, Australian Forest Products Association

KEYNOTE 3: Successes and Innovation in Education

Fraser Border
AgTech Engineer and Founder, integratedSTEM

Gullara McInnes
University Student / Drone Pilot

Scott Graham
Head of Agriculture, Barker College

KEYNOTE 4: Careers and Workforce in Primary Industries

Prof. Jim Pratley
Professor of Agriculture, Charles Sturt University

Kari Moffat
Livestock Sustainability Manager, Australian Rural Exports Pty Ltd (AUSTREX)

Dr. Nicole McDonald
Senior Research Officer, Agricultural Education and Extension Research Cluster, CQUniversity

Anthony Lee
Chief Executive Officer and Director, Australian Country Choice Group

Hardy Manser
Training Manage, UQ Skills
Higher Degree Candidate | Charles Sturt University

GROWING THE NEXTGEN OF FOOD AND FIBRE EDUCATION

Primary Industries Education Foundation Australia

PIEFA CONFERENCE 2023
HOTEL REALM, CANBERRA
1st and 2nd May, 2023

PROGRAM

STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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SUCCESS STORIES

The people and organisations who are leading the way in food and fibre education.

PIEFA

Through a range of programs and projects that promote careers, education and opportunities in Australia's primary industries.

BARKER COLLEGE

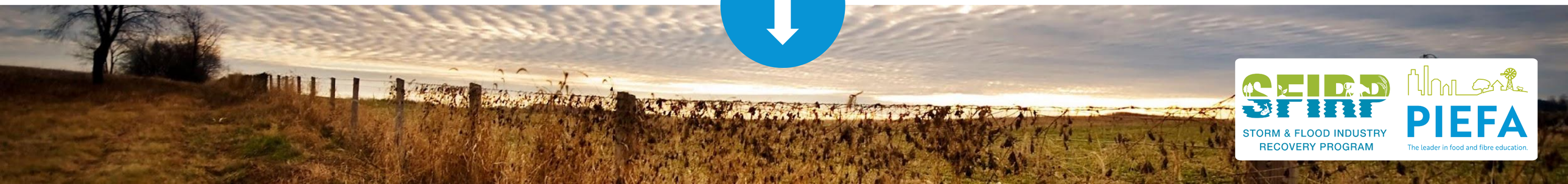
Scott Graham transforming perspectives and delivery

QUIET ACHIEVERS

Josie Clarke Ability Ag, Ben and Brooke Watts Bralca, Banyula Farm, NSWAAT and Rural learning exchange

OTHERS

Rotary, DPI, RAS, Agshows Australia, Landcare, NSW Farmers etc.



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Australian Government | Labour Market Insights, National Skills Commission

Primary Industries Education Foundation Australia

Snapshot: Agriculture, Forestry and Fishing (7 June 2022)

EMPLOYED

278,500

PAST GROWTH

-10.0%

FUTURE GROWTH

1.2%

WEEKLY EARNINGS

$1,053

WORKFORCE SHARE

2.1%

FULL-TIME SHARE

77.5%

FEMALE SHARE

30.2%

AVERAGE AGE

51

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

DAFF:

2022-2023 = $92 billion
Aim= $100 billion by 2030
Biggest challenge is **securing an appropriate workforce**.

Requires:
#invest in skills,
#opportunities in the regions
#secure pathways for overseas workers,
#workers are protected.

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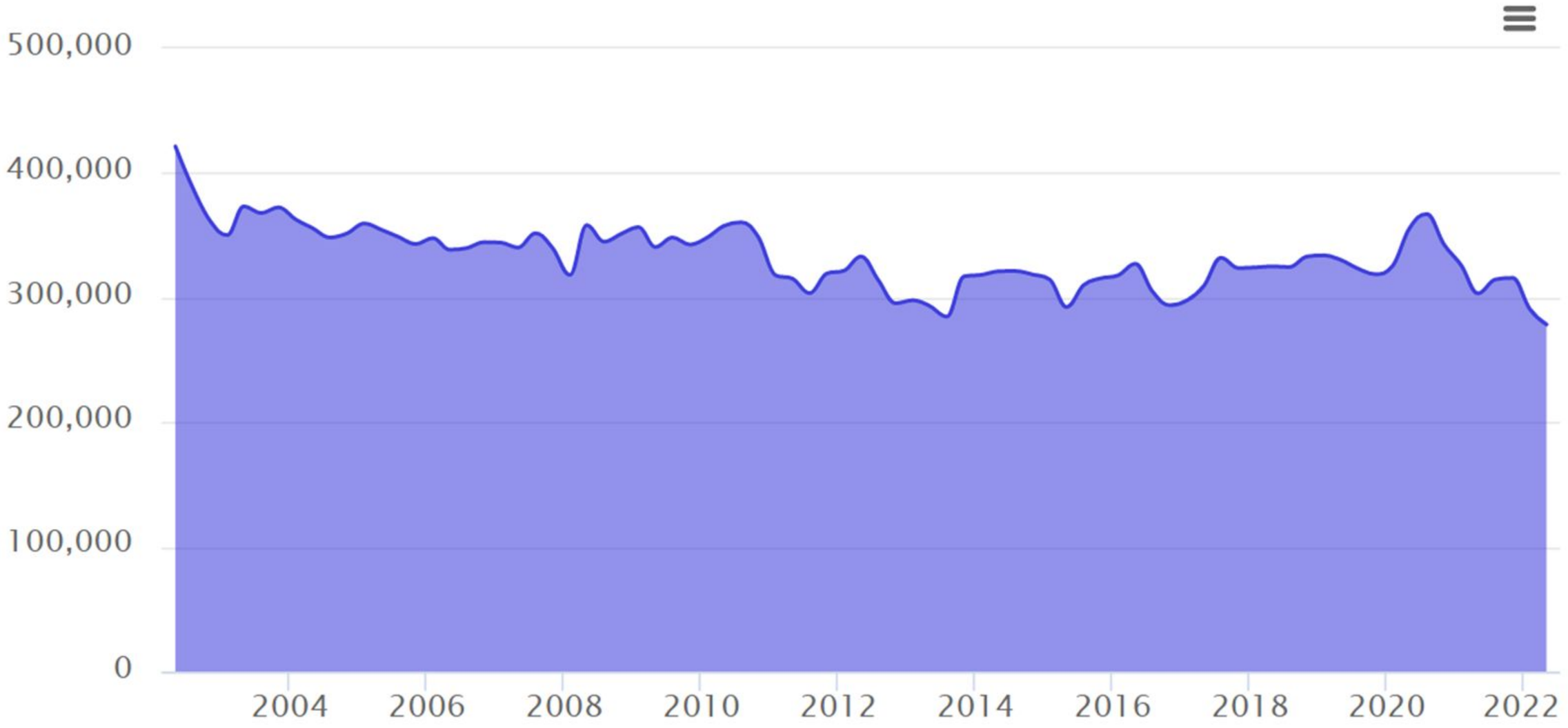
Quarterly employment update, Agriculture, Forestry and Fishing



Source: ABS, Labour Force Survey, Detailed, May 2022, seasonally adjusted.

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Careers and opportunities in agriculture

- 70% **Increased global food and fibre demand** by 2050.
- **Data** - 6 graduate level positions for every agriculture graduate student. **CSU professor Jim Pratley, PIEFA conference 2023.**
- Longerenong Smart Farm Vic - 9-10 job offers before graduation. **David Lamb, UNE, PIEFA conference 2023.**
- **Workforce**- 30% on farm, 45% off farm and 25% metropolitan. **Scott Graham, PIEFA conference 2023.**
- Range of positions available(entry, trade/certificate and graduate).
- **Range of sectors** - Beef, Dairy, Horticulture and Aquaculture, Education, Agribusiness, Agtech, Agronomy and Food Value Chains.

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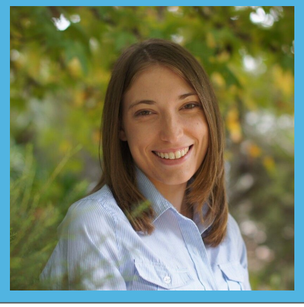
Key themes to consider

Skills needs - various operational, business, HR, R&D, agritech, regulation and compliance, QA, biosecurity and health, sustainability, carbon mitigation, communications, marketing and finally education.

Rachel Rodney ANU PIEFA conference 2023.



Industry Issues - skills shortages, lack of workers, farm safety and unlocking the value of human capital - high death rate (3-8 times other industries).

Troy Setter CPC PIEFA conference 2023.

Key attractors to industry

- Youth want to "make a difference, improve environmental outcomes and be at the forefront for innovation"

Andrew Metcalf (DAFF), PIEFA conference 2023.

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Key themes to consider

<u>Range of training programs available</u> - transferable skills, industry supported programs - PIEFA's Agcareers Start, Agforce SIPP, Thoroughbred Breeders, AWI etc.

<u>Cost of land a barrier to youth</u>

<u>Students have diverse backgrounds, skills and interests</u>

Career pathways not clear unless looking back on the past. **Gullara McInnes, Kari Moffat, PIEFA conference 2023.**

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SFIRP project outputs

<u>4 key activities</u> focussed on locally relevant industries and careers.

- **Professional development for Teachers**
- **Professional development for Careers Advisors**
- **Farmertime video resources**
- **Teaching resources developed and utilised by schools**

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PIEFA

PIEFA Projects
Food and Fibre Education

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Why these projects?

Where did we get our data?

Findings:

- Not all schools deliver an agriculture program
- Students engagement varies
- Hands on activities in demand
- Variation in cross curricular collaboration/delivery
- Teacher needs: locally relevant, industry contacts, incursion and excursions.
- Knowledge of the diversity of careers in agriculture

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2020 PIEFA Student Study

Student knowledge about food and fibre

- 30% students said leather shoes were made from something other than animal product
- 30% said Yoghurt was made from something other than animal product
- 35% said pasta was made from something other than a plant product
- 37% said cotton socks were made from something other than a plant product

Jobs in agriculture, food and fibre

- Currently there are 170,000 jobs available across Australia
- For every graduate there are 6 jobs available
- Food supply chains greatly affected by labour shortages e.g. the recent Inghams chickens strike Sept 2023.
- 80% of agriculture happens beyond farm gate
- Over 50% jobs are in capital cities
- STEM / technology and science plays a significant role

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SOLUTIONS

#1 Industry > School connection | Policy and local level

#2 Development of Year 11/12 agriculture curriculum

#3 Creation of more accessible classroom lessons | Interactive and available online

#4 Link resources to key priorities with your people | Including climate change, sustainability innovation and ethics

#5 Improve industry access for teachers and schools

#6 Networking, collaboration, cross curricular connections

#7 Industry and Government funded programs

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Student edge Youth insight Survey.

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Executive Summary

TEACHERS: CURRENT SUPPORT, FACILITIES AND RESOURCES

- Most teachers are satisfied with current support levels (73% very / somewhat satisfied). For many, teaching agricultural subjects is a passion point and most feel they have a strong foundation of knowledge on the subject.
- However, limited funding, under-staffed departments and limited access to facilities are pain points across the industry.
- Recent flooding and natural disasters have only exacerbated these tensions, with many having lost live-stock, restricting access to school farms, or lost volunteer support.
- Most teachers have access to basic facilities (agricultural plot 83%, seeds/seedlings/plants 73%, vegetable plot 73%) and most (71%) agree it is somewhat or very easy to access these facilities.
- There are myriad facilities which teachers deem very useful, but do not currently have access to: Apiary, Vermiculture, Aquaculture, Cropping, Chickens (broiler) and Dairy cattle are some examples. Opportunity to focus efforts on increasing accessibility in this space.
- Teachers use numerous resources – both practical and theoretical. Growing vegetables, worksheets, resources developed by the teachers themselves are among the most used, and some of the most useful.
- However, few have access to expert speakers / local industry connections or kitchen gardens but would find these resources very useful. Opportunity to focus efforts on increasing accessibility in this space.

Pilot projects

- Mid North Coast Careers in Agriculture and Food Value Chains.
- Banyula Farm Field Day
- PIEFA in Schools - possibilities

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PIEFA Projects
Food and Fibre Education

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SFIRP impact report

Participants who obtained valuable resources to use in schools

100%

Participants inspired/reinspired to advocate for agriculture

97.7%

Participants with increased understanding of agriculutre careers and pathways

97.2%

Participants who made contacts to support students to consider a career in agriculute

100%

Participants who intend to use the applicable PIEFA programs

95.5%

Participants with increased understanding/ability to teach sustainable food and fibre production*

100%

*Banyula teacher tour only

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UPCOMING NSW TEACHER AND CAREER ADVISOR PD EVENTS

2023 - 2024

Plan your 2024 food and fibre TPD now!

Join PIEFA's Storm and Flood Industry Recovery Program for face to face workshops, online events, new food and fibre resources and more!

Across our events, you will take part in demonstrations and hear presentations from expert speakers. You will workshop new resources, develop your understanding of career opportunities available in the agriculture industry at entry, trade and graduate level and identify skills and training pathways for students.

FOR MORE INFORMATION, VISIT WWW.PIEFA.EDU.AU/SFIRP OR SCAN THE QR CODE:

Storm and Flood Industry Recovery Program: Creating resilience through empowering school curriculums about primary industries careers.

PIEFA's NSW Program is funded by the Australian and NSW Government's Storm and Flood Industry Recovery Program. However, the material contained herein does not necessarily represent the views of either Government.

Primary Industries Education Foundation Australia

2023

UPCOMING EVENTS

19 October

Integrating Food and Fibre Workshops

Face to face teacher workshop with free teaching resources and presentations.

6 Nov & 13 Nov

Knowing and Growing Workshops

In-person (6 Nov) and online (13 Nov) workshops with expert speakers, free resources and more.

30 Nov - 1 Dec

Hunter Valley Careers in Agriculture Workshop

Free two-day teacher and career advisor tour of NSW DPI sites.

PLAN YOUR TPD NOW! VISIT WWW.PIEFA.EDU.AU/SFIRP OR SCAN THE QR CODE:

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2024

UPCOMING EVENTS

Feb - Nov

Careers in Agriculture Online Q&A Sessions

Individual career stories, expert speakers and more.

Feb, Jun & Aug

Ag, Agtech and A.I Workshops

Tech mandatory-focussed STEM workshops with free equipment to monitor hive health & pests.

Mar - Sep

Integrating Food and Fibre Workshops

Online and in-person workshops with expert speakers, free resources and more.

Plan your 2024 food and fibre TPD now!
For more information, please contact:

Ben Holmes
Project Manager
ben.holmes@piefa.edu.au

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PIEFA's SFIRP Program is funded by the Australian and NSW Government's Storm and Flood Industry Recovery Program

CALENDAR 2024

SFIRP
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JANUARY

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FREE PROFESSIONAL DEVELOPMENT EXCURSION FOR TEACHERS AND CAREER ADVISORS

Cultivating Classrooms: Hunter Valley Careers in Agriculture Workshops

DATE: November 30 to December 1, 2023
LOCATION: Various NSW DPI sites across NSW

Join us for a series of workshops on November 30 and December 1, 2023.

These workshops are a collaboration between PIEFA and the NSW Department of Primary Industries and will be held at a number of NSW DPI sites including Tocal Agricultural Centre (Paterson), the Port Stephens Fisheries Institute and the Central Coast Primary Industries Centre Ourimbah.

Workshops will include tours of the sites and presentations by speakers with experience in industry and training, and will develop teachers' understanding of the diverse range of career opportunities in primary industries (including entry, trade and graduate level positions).

Overnight accommodation, catering and 2 days teacher relief funding provided

REGISTRATION IS OPEN

REGISTER NOW

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Cultivating Classrooms: Integrating Food and Fibre Workshop

FOR AGRICULTURE, SCIENCE AND GEOGRAPHY

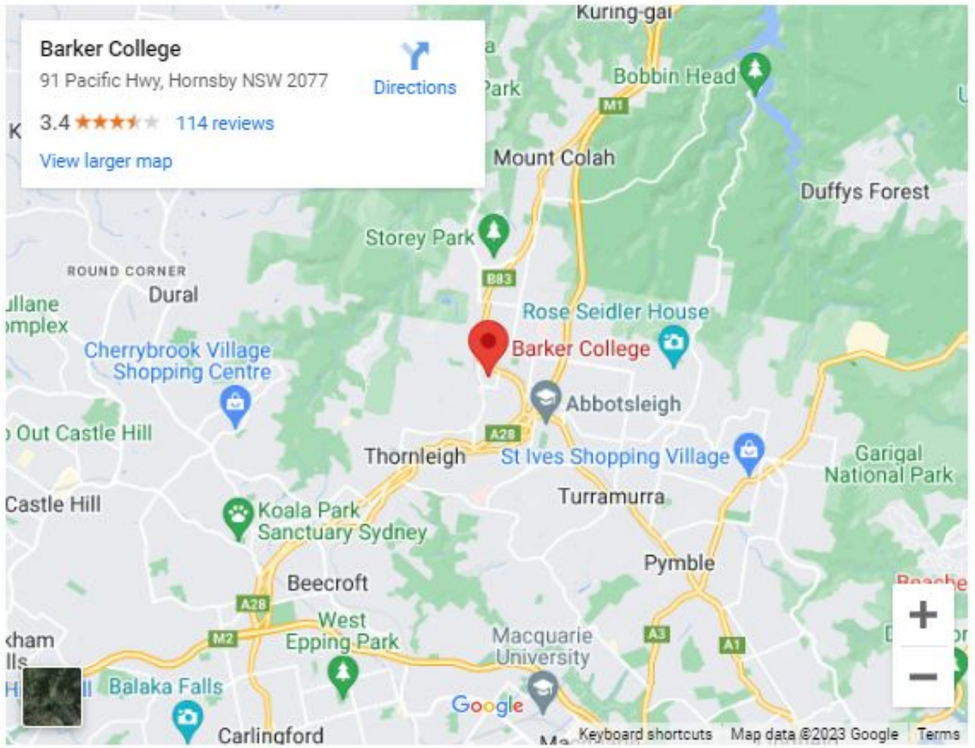
DATE: Thursday, October 19
TIME: 4:00pm – 6:00pm
LOCATION: Barker College, Hornsby

Join guest speakers Scott Graham, Luciano Mesiti and PIEFA staff as they explore different methods and platforms to integrate food and fibre content in the classroom!

Participants receive free teaching resources and afternoon tea.

REGISTRATION IS OPEN

CLICK HERE TO BOOK NOW



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FREE PROFESSIONAL DEVELOPMENT FOR SECONDARY TEACHERS

DATE: MONDAY, 6 NOVEMBER AT 4PM - 6PM
LOCATION: BELGENNY FARM, 100 ELIZABETH MACARTHUR AVE, CAMDEN SOUTH
THEME: FIELDWORK AT BELGENNY FARM
KEY PRESENTERS:

- **NSW Department of Primary Industries** *will discuss how Belgenny Farm can be utilised as a fieldwork location for Agriculture, Science and Geography.*
- ***Royal Agricultural Society of NSW*** *will discuss the integration of food and fibre across the curriculum.*
- **PIEFA staff** *will present exciting new resources developed in conjunction with key industry partners.*

Access to free teaching resources and afternoon tea will be provided.

NESA standards 2.1.2, 2.6.2 and 6.3.2 will be addressed.

FOR FURTHER INFORMATION AND TO REGISTER, VISIT WWW.PIEFA.EDU.AU/SFIRP OR SCAN THE QR CODE:

NSW Department of Primary Industries | Royal Agricultural Society of NSW
Primary Industries Education Foundation Australia
SFIRP PIEFA's SFIRP Program is funded by the Australian and NSW Government's Storm and Flood Industry Recovery Program.

Knowing and Growing: Integrating Food and Fibre Workshop

FOR AGRICULTURE, SCIENCE AND GEOGRAPHY TEACHERS

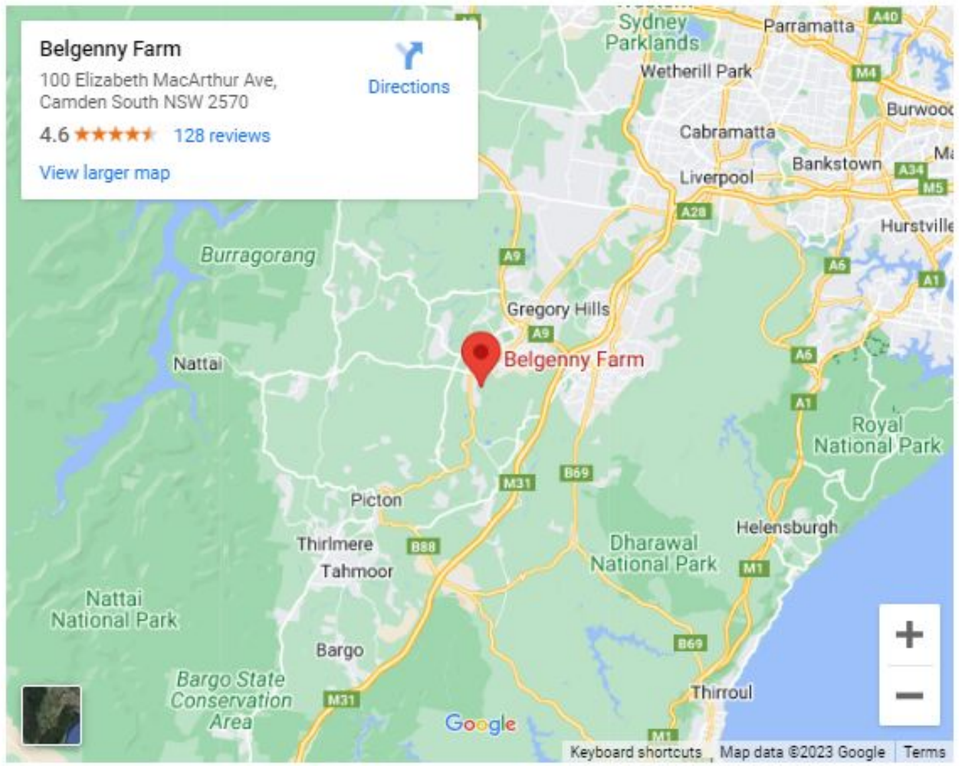
DATE: Monday, 6 November
TIME: 4.00pm – 6.00pm

Join guest speakers from the NSW Department of Primary Industries, Royal Agricultural Society of NSW and PIEFA staff as they discuss fieldwork at Belgenny Farm and the integration of food and fibre across the curriculum.

Free teaching resources and afternoon tea will be provided!

REGISTRATION IS OPEN

REGISTER NOW



SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

FREE ONLINE PROFESSIONAL DEVELOPMENT FOR TEACHERS

Knowing and Growing: Integrating Food and Fibre Workshop

FOR AGRICULTURE, SCIENCE AND GEOGRAPHY TEACHERS

DATE: Monday, 13 November
TIME: 4.00pm – 5.00pm

Join guest speakers from the NSW Department of Primary Industries, Royal Agricultural Society of NSW and PIEFA staff as they discuss the use of soils to enhance teaching, learning and cross-curricular priorities.

Free teaching resources will be provided!

REGISTRATION IS OPEN

CLICK HERE TO REGISTER NOW

Soils

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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PAST EVENT RESOURCES

MID NORTH COAST CAREERS IN AGRICULTURE TOUR FOR CAREERS ADVISORS | APRIL 2023

The Mid North Coast Careers in Agriculture and Food Value Chains Tour was a 2-day workshop across flood-affected areas on NSW. The event took place in April 2023 and showcased a variety of careers and career pathways across multiple locations including Coffs Harbour, Bellingen, Dorrigo, Kempsey and Port Macquarie. 26 teachers and Careers advisors attended.

A Careers in Agriculture poster was developed with RDAMNC and a Career Harvest teaching resource to support students investigating careers in agriculture was also developed.

ACCESS MORE INFORMATION HERE

BANYULA FARM FIELD DAY | JULY 2023

This event was a collaborative between Banyula Farm, Southern Cross University and PIEFA. 43 teachers attended presentations on regenerative farming and workshopped a series of teaching resources targeting curriculum for agriculture, primary industries, science and geography.

ACCESS MORE INFORMATION HERE

SFIRP Program - PIEFA Food Fibre Education Resources

TEACHING RESOURCES

SEED PACK | EDUCATIONAL RESOURCE

Teaching resource: Insectary and pasture regenerator seed blend supports the Banyula 'Producing Pollinators for Improved Orchard Yields' teaching resource.

The SFIRP program has been providing an Autumn seed packet to attendees at events, workshops and expos for teachers to use with experimental trials within Agriculture and Science classes.

There are 9 different species of plants that perform different functions to improve soils and farm biodiversity, such as green manure/carbon storage, biomass for foragers, nitrogen fixation, biotillage for infiltration and flowers to support

PRODUCING POLLINATORS | TEACHING RESOURCE

Teaching resource: Producing Pollinators for Improved Orchard Yields is a year 7-8 resource that introduces students to the importance of pollinators for improving orchard yields, human management of bees for orchard pollination and the impacts of farm management on the sustainability of a farm enterprise.

This teacher guide consists of 3 activities (and optional extension activities), worksheets and answer guide. These activities will build students' vocabulary and knowledge around pollinators and their impact on food production, assist them to develop ideas to solve existing problems, and design and build their own pollinator habitat box.

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

PIEFA resources for agriculture careers education

CAREER HARVEST

Future resources:

Subject selection to promote agriculture to students and parents.

Scott Graham, Barker College, PIEFA conference 2023.

AG CAREER START
LEARN. GROW. FARM.

PIEFA contact: Ingrid Gow - Education Officer
0483832405
ingrid.gow@piefa.edu.au

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

Primary Industries Education Foundation Australia

CAREER HARVEST
A Project of the Primary Industries Education Foundation Australia

Agricultural Careers Wheel of Fortune | STUDENT COPY

Most jobs require specific skills (specialist tasks), core skills (soft skills) and technology skills. Importantly, many of these skills are often transferable. Complete this task to explore various skills that are related to agricultural careers.

Student Work Part 1: You have just won a career on the Career Wheel of Fortune

1. Review your card. The underlined word is the career you will be investigating. Read through the lists of specific skills (specialist tasks) for your underlined career.
2. Select three skills (specialist tasks) you would enjoy doing. Write each of them down, explaining why you would enjoy practising them.
3. Select one skill (specialist task) you would not enjoy. Write it down and explain why you would not enjoy practising this skill.
4. Based on the specific skills (specialist tasks) of your career, list four core/soft skills the job requires.

Student Work Part 2: Skills in the Real World

1. Using the website SEEK.com.au, use your career title as the keyword to find an advertised job. Click the Classification box 'Farming, animals and conservation' to narrow your search. (if no jobs are found, unclick this classification.)
2. Select a job advertisement which provides the salary, roles and skills required.
3. Using the information found within the job advertisement, answer the following questions:
   a. Where is the job?

Animal attendant

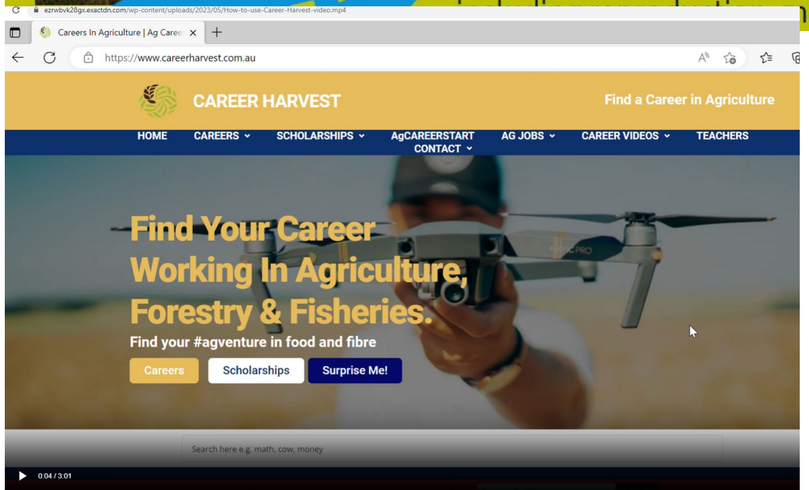
- Prepare and deliver food and water to animals
- Assist with animal behavioural assessments and behaviour modification
- Clean sleeping quarters for animals
- Clear away animal waste and maintain animal enclosures
- Transfer animals between enclosures
- Bathe and groom animals, and treat them with insecticide to control insect pests
- Treat minor injuries and report serious health problems and administer basic medications

Animal Welfare Officer

- Undertake inspections of properties and commercial operations
- Educate people about the proper treatment of animals
- Prepare cases for court hearings

Animal Physiologist

- Study and research animal anatomy and function, [illegible] movement and growth



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PAST EVENT RESOURCES

MID NORTH COAST CAREERS IN AGRICULTURE TOUR FOR CAREERS ADVISORS | APRIL 2023

The Mid North Coast Careers in Agriculture and Food Value Chains Tour was a 2-day workshop across flood-affected areas on NSW. The event took place in April 2023 and showcased a variety of careers and career pathways across multiple locations including Coffs Harbour, Bellingen, Dorrigo, Kempsey and Port Macquarie. 26 teachers and Careers advisors attended.

A Careers in Agriculture poster was developed with RDAMNC and a Career Harvest teaching resource to support students investigating careers in agriculture was also developed.

ACCESS MORE INFORMATION HERE

BANYULA FARM FIELD DAY | JULY 2023

This event was a collaborative between Banyula Farm, Southern Cross University and PIEFA. 43 teachers attended presentations on regenerative farming and workshopped a series of teaching resources targeting curriculum for agriculture, primary industries, science and geography.

ACCESS MORE INFORMATION HERE

SFIRP Program - PIEFA Food Fibre Education Resources

TEACHING RESOURCES

SEED PACK | EDUCATIONAL RESOURCE

Teaching resource: Insectary and pasture regenerator seed blend supports the Banyula 'Producing Pollinators for Improved Orchard Yields' teaching resource.

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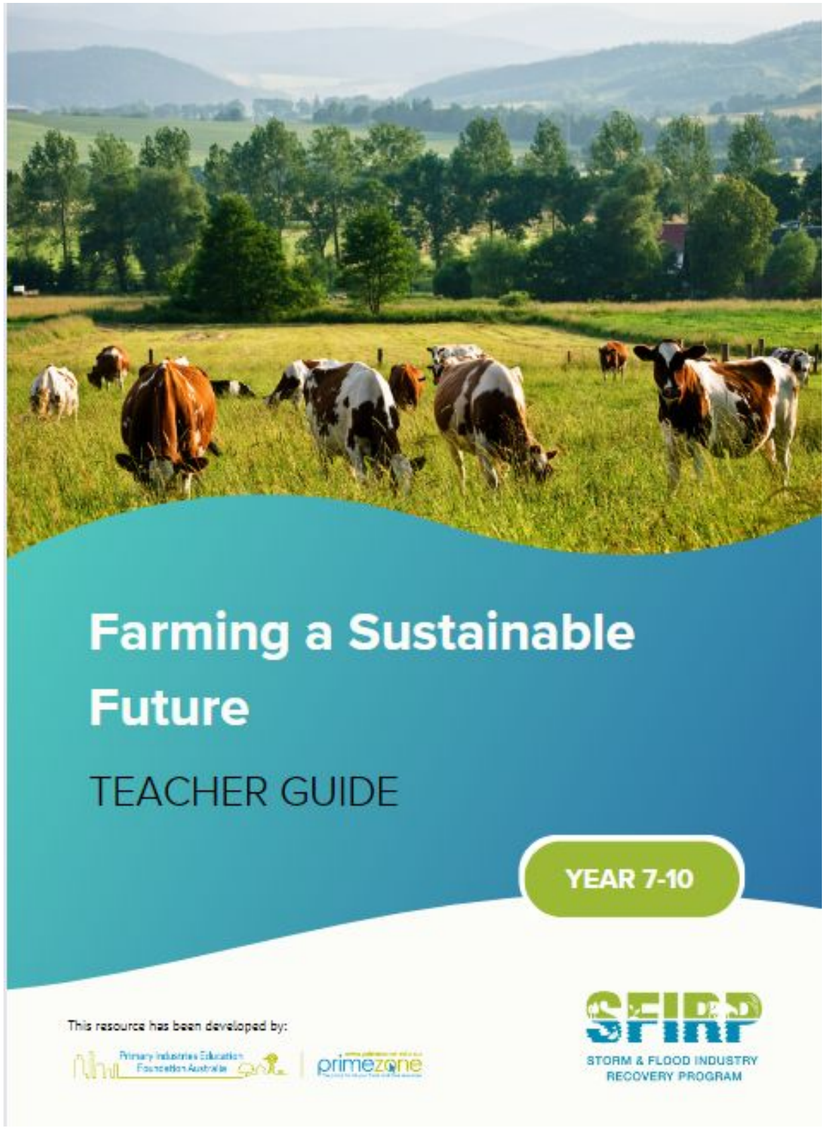
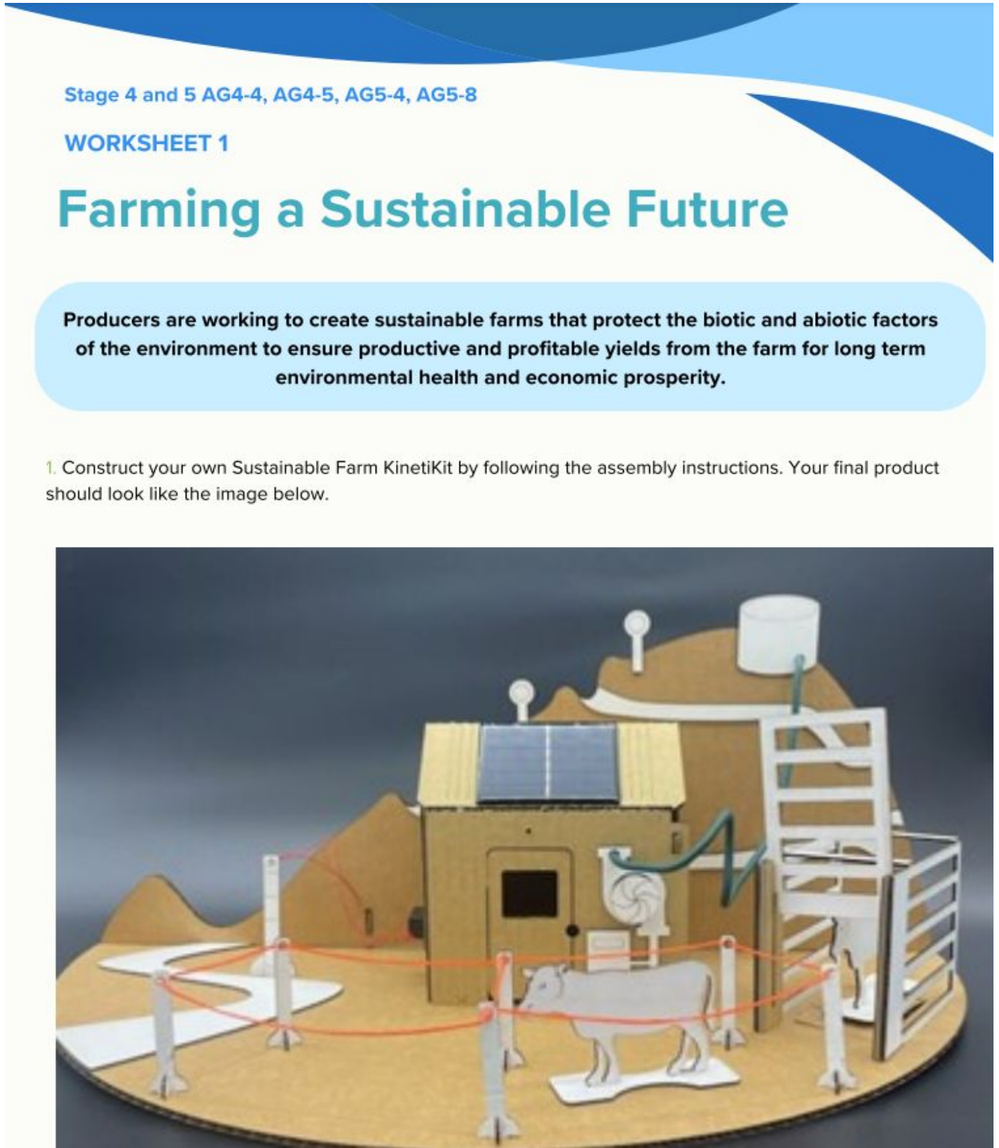
SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

New resources





[SFIRP Program - PIEFA Food Fibre Education Resources]

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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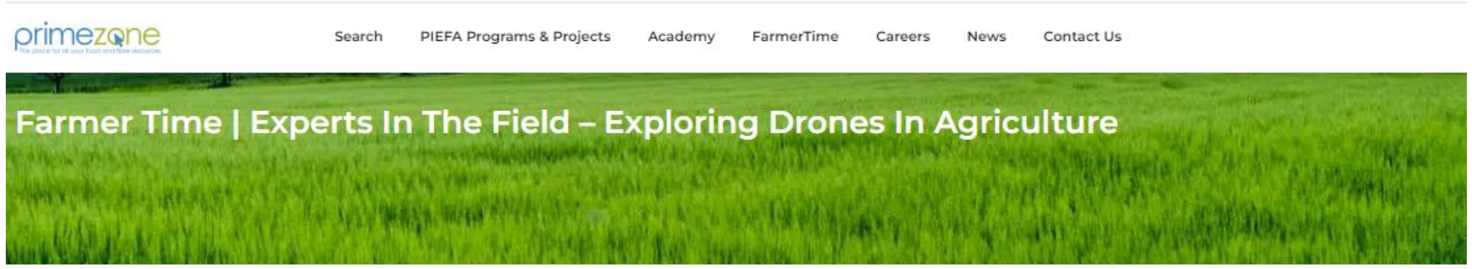
New Farmer Time: Episode 2 and 3.



SUBJECT
Agriculture
Design & Technology
Science

AC CODE 8.4
AC CODE 9.0
ES4, LW5, LW2, AG4-2, AG5-2, AG4-8, AG4-9, AGLS-7, AGLS-10, AG4-12, AC9S7H03, AC9S8H03, AC9S9H02, AC9S10H02, AC9S9H03, AC9S10H03, AC9TDE8K01, AC9TDE8K02, AC9TDE8K04, AC9TDE10K01, AC9TDE10K02, AC9TDE10K04

TYPE	YEAR
Activity,PDF,Video,Worksheet	7–10

STATE
Qld, NSW, SA, NT, ACT, Tas, WA

Farmer Time | Experts In The Field – Exploring Drones in Agriculture

You can now access the first in our *Farmer Time | Experts In The Field* three part series: *Exploring Drones In Agriculture*. This series provides an excellent opportunity for students and teachers to engage with four experts and how they use emerging drone technology in agriculture.

Students will engage with the experts, focusing on the innovative ways drone technology in agriculture is used to improve efficiency, sustainability, and precision farming practices.

The *Farmer Time | Experts In The Field* project focuses on developing students' knowledge and appreciation of Australian agricultural production and the impacts of drone technology on the ongoing development of agriculture in the country.

Our three *Experts In The Field* episodes highlight the influences of current and emerging technologies on local environments, fostering responsible decision-making and judgment in adopting sustainable management practices.

Episode 1: Drones On Farms

Farmer Time | Experts In The Field – Exploring Drones in Agriculture

Episode 2 Youtube:
https://youtu.be/0Q68OZWykUg

Teacher resource available this week.

STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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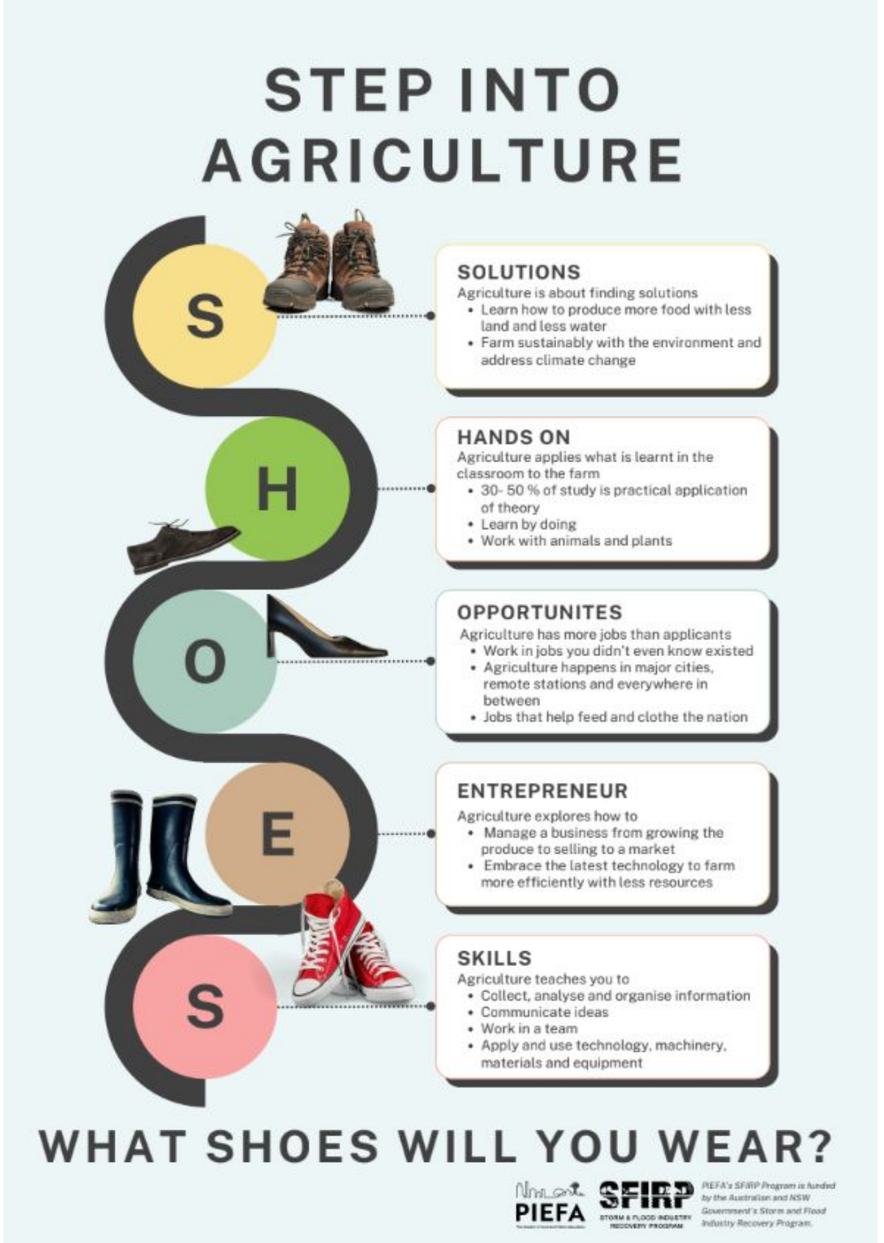
New subject selection tools

Subject Selection Tool.pptx



SFIRP
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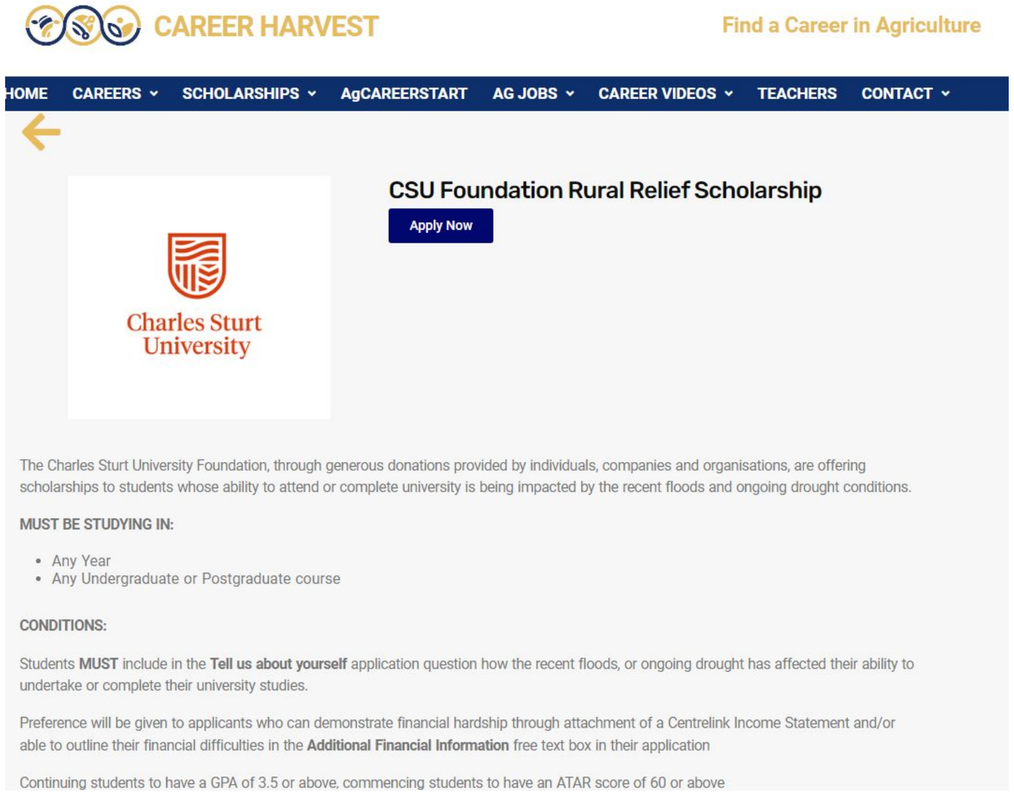
New resources and opportunities for senior students.

NSW Agriculture Institute Undergraduate Handbook.
https://www.aginstitute.com.au/public/129/files/NSW%20UnderGrad%20Handbook%20Final%20for%20web.pd

CSU Foundation Rural Relief Scholarship | Agricultural Study Scholarships (careerharvest.com.au)



SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

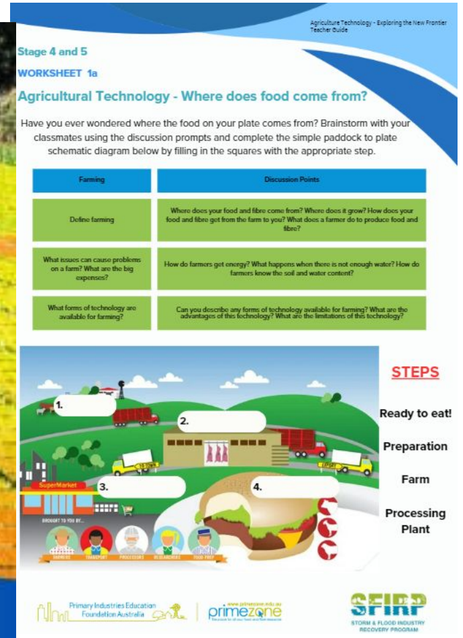
New resource developed for this event

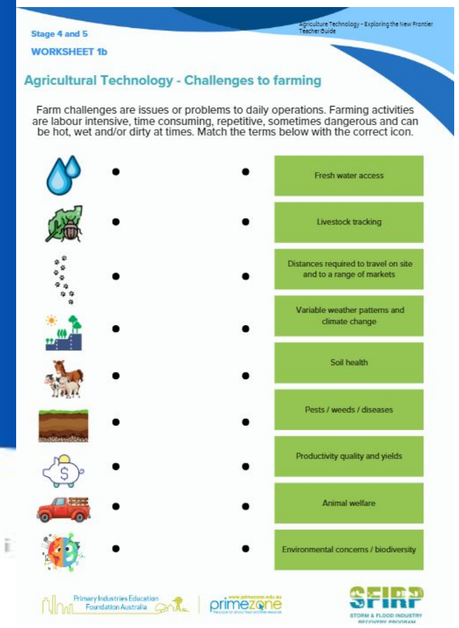
Agricultural Technology
Exploring the New Frontier

TEACHER GUIDE

YEAR 7-10

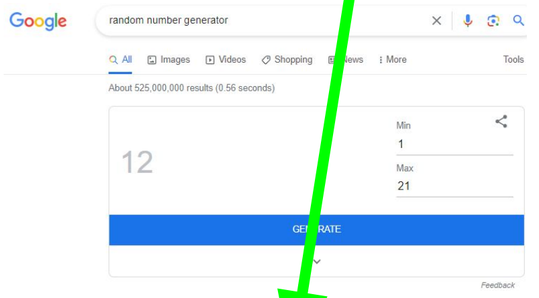
This resource has been developed by:



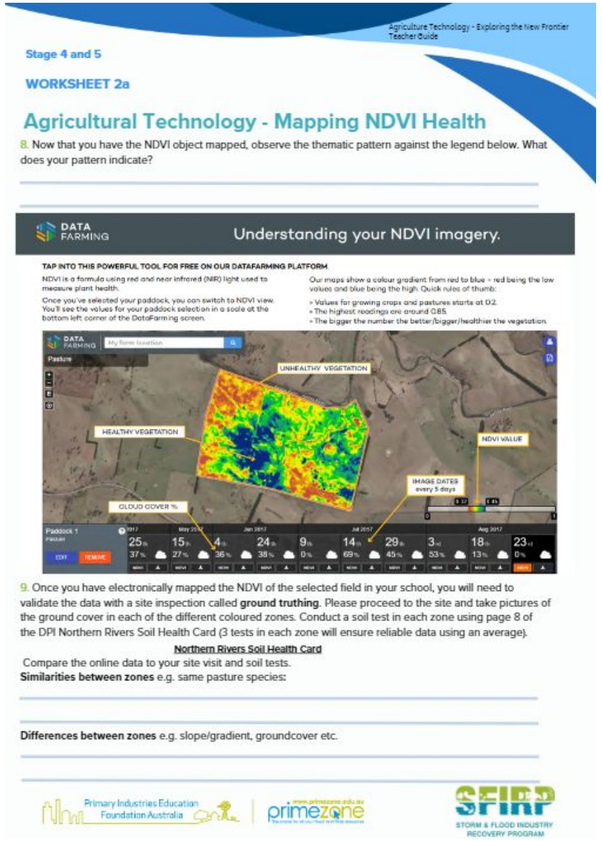


Agricultural Technology - Exploring the new frontier (2).pdf

Congratulations registration number 12 (Steve) wins a soil test kit!



Hands On Activity! Refer to Risk assessment.



SFIRP
STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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Horticulture

Key word search - horticulture innovation

[Primezone](#)

SUBJECT
Design and Technologies
Health And PE
Horticulture

AC CODE 8.4
ACTDEK033, ACTDEK032
AC CODE 9.0
AC9TDE8K05, AC9TDE8K04

TYPE	YEAR
Activity,Download,PDF,Video (YouTube),Workbook,Worksheet	8

STATE

Australian Avocados | Our green gold superfood (TEACHER GUIDE)

This Teachers Guide supports the student resource 'Australian Avocados: Our Green Gold Superfood'.

The teacher guide provides a course outline, including learning areas and syllabus outcomes to help you deliver an interactive and engaging lesson on Australian avocados. Designed for Year 7 and 8 students to support their learning in Design and Technologies, the student workbook gives particular focus to two main technologies contexts: Food and fibre production and Food specialisations. The course provides students with the opportunity to design and produce various products, including experimenting with food preparation and presentation techniques.

Download the free PDF student workbook which contains five separate interactive lessons. Each lesson will require students to read or view important information. Some lessons will require students to complete quizzes based on the information they have learnt. The answers to these quiz questions are provided within this teacher guide. Students will complete a range of activities based on what they have learnt and record their learning in the space provided in the student workbook.

Download the free PDF Teacher Guide HERE!

Link

Keywords

Australian avocados, avocado, horticulture, hort innovation, green and gold, superfood, hass, shepherd

Developed by: PIEFA

[Australian Avocados | Our green gold superfood (STUDENT WORKBOOK) | Agriculture Lessons](#)

[ATCM Dashboard](#)

SUBJECT
Design and Technologies
Science

AC CODE 8.4
AC CODE 9.0
AC9S9U02, AC9S10U01, AC9TDE10K04

TYPE	YEAR
PDF	9 - 10

STATE
Qld, NSW, SA, NT, ACT, Tas, WA

Growing and Grafting | Hort Innovation (Years 9-10)

A two lesson resource investigating the use of plant propagation techniques in Australia's Nursery industry. Throughout these lessons, students will explore asexual and sexual reproduction methods and consider the advantages and disadvantages of these forms of reproduction for plants and plant producers. This resource covers Design and Technologies and Science Content Descriptors from the Australian Curriculum.

Access the following PDF downloads:

TEACHER GUIDE

LESSON 1 | Sexual and Asexual Reproduction in Plants

LESSON 2 | Growing and Grafting

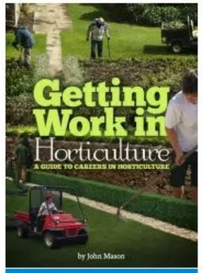
STUDENT WORKSHEETS

LESSON 1 | Sexual and Asexual Reproduction in Plants

LESSON 2 | Growing and Grafting

TEACHER GUIDE | WEBINAR

The below teacher webinar explains the Growing and Grafting resource, providing detailed explanation on how to use it in the classroom.



SUBJECT
Agriculture
Horticulture

AC CODE 8.4
AC CODE 9.0

TYPE	YEAR
PDF	9 - 12

STATE

Getting Work in Horticulture – A Guide to Careers in Horticulture

Horticulture is an industry that will always be with us; human life cannot exist and thrive without plants – they are integral to human survival. That fact alone makes horticulture not only important, but perhaps the only career that mankind is unlikely to ever see disappear.

Sound, broad-based training in the fundamentals of horticulture is a good starting point for entering this industry. However, not all courses on offer will be broad enough or in-depth enough to set you up for a sustainable, lifelong career – so you need to understand the fundamentals required in horticulture (in general) and then choose a diverse course, that enables you to achieve these aims.

ACS Distance Education are pleased to offer this ebook for free (valued at $24.95) as a promotion with PIEFA.

Please search for 'Working with Animals' for the second in this series by author.

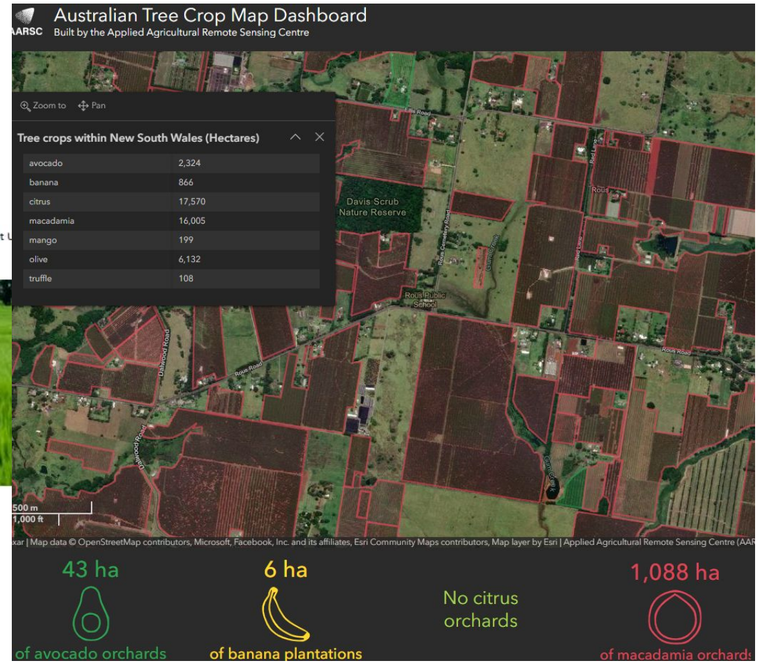
DOWNLOAD the ebook | Getting Work in Horticulture.

Link

Keywords

agriculture, horticulture, careers, work, ACS Distance Education, John Mason

Developed by:



STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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The leader in food and fibre education.

Soils for Life and Soil Science Australia Targeting Year 7-10 students.

The Healthy Living Soils Project features **seven extensive resources**, including online digital tools, geospatial tools/technologies, Google Earth Projects, soils technologies for sustainable agricultural production.

[Healthy Living Soils]

Lessons 5 (5.3 and 5.4) and 6 (innovative farm strategies).

SUBJECT
Design and Technologies
Geography

AC CODE 8.4
AC CODE 9.0
AC9HG7K01, AC9HG7K04, AC9HG7S01, AC9HG7S02, AC9HG7S04, AC9HG7S05, AC9HG7S06, AC9HG9K01, AC9HG9K01, AC9HG9K03, AC9HG9K04, AC9HG9S02, AC9HG9S06, AC9S9U03,

Healthy Living Soils | Years 7-10

Access this suite of curriculum linked resources for both teachers and students targeting the Year bands of 7-10 and Learning areas of Science, Geography, and Design & Technologies via a dedicated website. Learn more about our valuable and productive Australian soils by accessing the 'Learn', 'Watch' and 'Do' areas.

Lessons feature hands-on practical tasks, collaborative activities, research opportunities, video content, case studies and suggested answers to support and engage teachers and students.

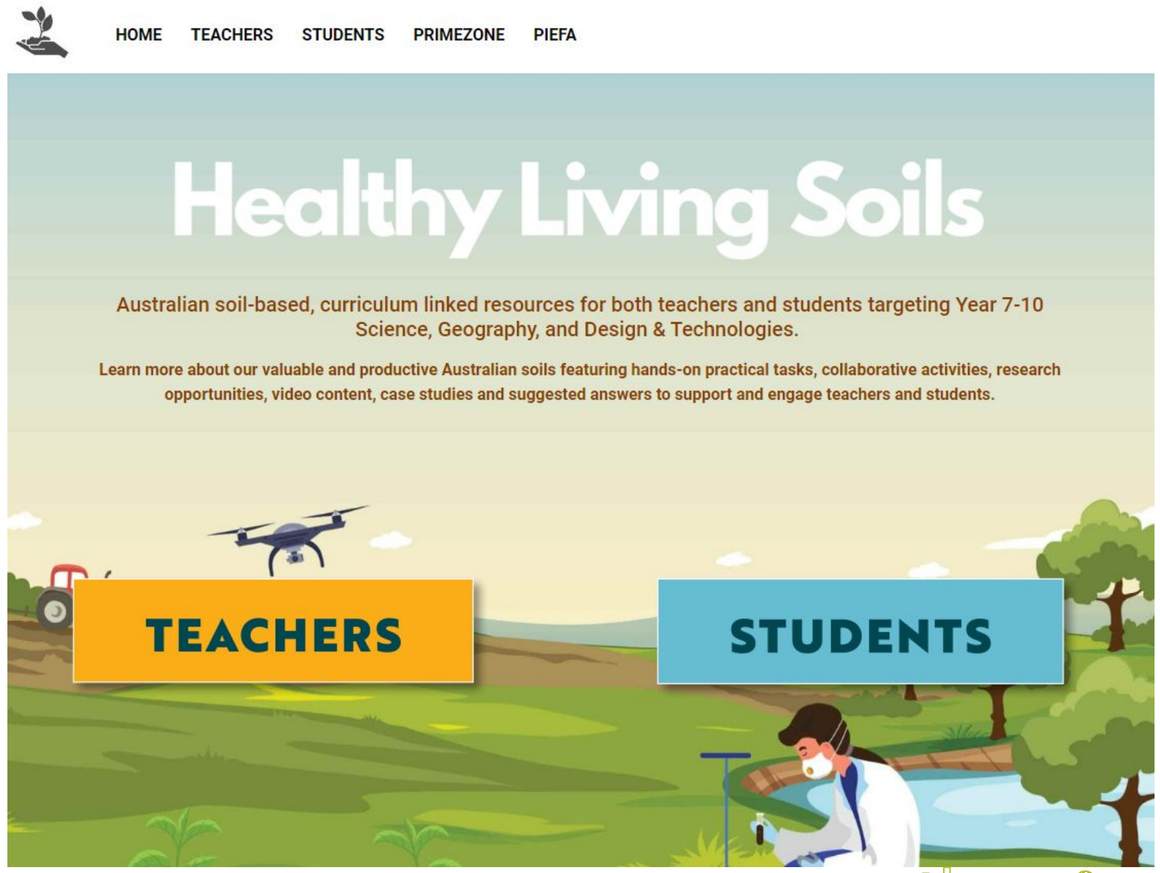
Link

https://healthylivingsoils.com.au/

Keywords

soil, healthy, organism, health, soil structure, biology, food production, food security, natural resource, environment, biomes, flora, fauna, soils, First Nations, Indigenous, water cycle, carbon, case studies, food web, food chain

Developed by: PIEFA, Soil Science Australia, Soils for Life



SFIRP
STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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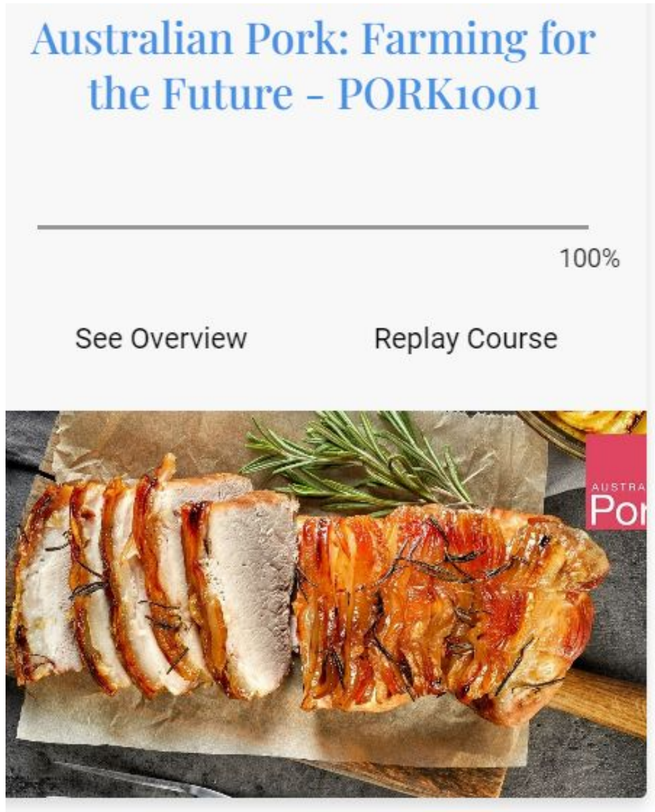
Primezone Academy

Australian Pork-Farming for the Future

Australian Pork: Farming for the Future - PORK1001

Lesson 3, 4 and 5



Hort Innovation - Food production through protected cropping

Food Production Through Protected Cropping | Online Course

STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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The leader in food and fibre education.

Primezone - MLA Good Meat Stage 4

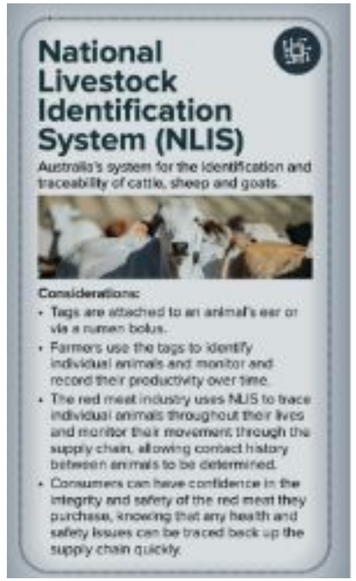
https://primezone.edu.au/resource/mla-australian-good-meat-teacher-resources/?mc_cid=e31b6f39f4&mc_eid=77bc1cf7db

Students will learn about the steps in the red meat 'paddock to plate' supply chain and how technologies can target areas within the chain to improve production.

Student Resources:
ACTIVITY 5.1 – **Paddock to plate** story
ACTIVITY 5.2 – Building the **supply chain**
Worksheet 5.2a The paddock to plate chain

ACTIVITY 5.3 – **Technologies and the supply chain**
Worksheet 5.3a Technologies and agriculture
Worksheet 5.3b Technologies in the red meat supply chain

Paddock to plate card games.



STORM & FLOOD INDUSTRY RECOVERY PROGRAM

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Good Meat website Yrs 9-10

https://primezone.edu.au/resource/mla-australian-good-meat-teacher-resources/?mc_cid=e31b6f39f4&mc_eid=77bc1cf7db

Lesson 6: Example lesson on technologies.

https://www.goodmeat.com.au/globalassets/good-meat-v2/education/teaching-resources/teacher/9-10/lesson-6/gme-teacher-9-10-lesson-6-v1.pdf

Australian Good Meat Education resources are developed by mla MEAT & LIVESTOCK AUSTRALIA

9-10 | ONLINE LEARNING TASKS

Lesson 6

BunkBot digital technology

A new autonomous robot for manoeuvring a feed bunk scanner around a feedlot is now undergoing on-site evaluations.

The device is a combination of mapping, sensor and robotic technology aimed at delivering real-time data with precision and accuracy.

Benefits to the feedlot industry will include; a greater understanding of cattle consumption and feeding habits, reducing feed waste, advancements in distributing rations to animals in feedlots as well as; reduced expenditure in purchasing feed requirements and diverting labour to other necessary areas.

PIEFA

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NEWS

New Australian Good Meat classroom resources for Foundation to Year 10

08/16/2023 • By Dianne

Get your free Australian Good Meat classroom pack

PIEFA and Meat and Livestock Australia are excited to announce the release of a new set of classroom resources for students and teachers in primary and high school.

This suite of resources, which are curriculum-aligned (Australian curriculum 9.0) and classroom-ready, use the most current Australian red meat industry information and include:

- Student worksheets
- Lesson plans
- Online learning tasks
- Teacher instructional videos
- Supplementary materials

Available now through Meat and Livestock Australia's Australian Good Meat website and PIEFA's Primezone online platform, students will learn about on-farm practices, the red meat supply chain, health and nutrition, marketing, climate, and the environment – all with a focus on sustainability and technology as a cross-curriculum priority.

FREE CLASSROOM PACKS | Posters and Paddock to Plate Card Game!

To celebrate the launch of this suite of Australian Good Meat resources, the team at Meat and Livestock Australia are giving away free classroom packs to teachers across Australia!

Packs are suited to classes in Year 5–6 and Years 7–10 and include a range of posters to display in the classroom and a paddock-to-plate card game with instructions.

The card game is engaging and hands-on, allowing students to learn about the process of converting 'on-farm' food into a product suitable for retail sale. Additionally, they will gain an understanding of the careers and sustainable approaches involved in the supply chain of red meat, from paddock to plate.

Simply complete the online form below and a classroom pack will be posted out towards the end of Term 3. *Terms and conditions apply. See form for details.*

ACCESS RESOURCES

COMPLETE ONLINE FORM

Recent Posts


New Australian Good Meat classroom resources for Foundation to Year 10


Integrating Food and Fibre Education Across Subject Areas


National Ag Education Strategy Working Group Gets Underway


Harnessing Innovation: Empowering Future Primary Industries during Science Week 2023


PIEFA Conference 2023

Archives

August 2023
July 2023
June 2023
November 2022
August 2022
December 2021
November 2021
September 2020

Lesson 3 - NLIS tagging, reducing waste

Australian Good Meat Education resources are developed by mla MEAT & LIVESTOCK AUSTRALIA

9-10 | ONLINE LEARNING TASKS

Lesson 3

The importance of the National Livestock Identification System

The National Livestock Identification System (NLIS) is an Australian system that allows identification and traceability of cattle, sheep and goats.

The system was developed in 1999 and the rules for tracing livestock through their lifespans were developed by the meat industry and the government. This level of traceability is crucial to Australia's reputation of producing high quality red meat.

It helps to facilitate a response to disease, guarantees food security for public health, and helps to maintain international trust.

Lesson 5 _ preserving and preventing waste - Preservation and storage technologies.

Storage life of chilled red meat

Observe the table below.

Practical storage life of chilled meat

Product	Storage life
Carcasses/quarters etc. in air (0°C to 2°C)	
• Beef (stockinette)	3-4 weeks
• Beef (overwrapped)	12 days
• Lamb & mutton	10-13 days
• Offals	7 days
Primal cuts – vacuum packed (0°C)	
• Beef	20 weeks
• Lamb & mutton	12 weeks
• Beef & lamb offal	3-4 weeks
CO_2 (100%) gas flushed (0°C)	
• Lamb & mutton carcases and cuts	Up to 16 weeks

(Shelf life of Australian red meat, 2nd edition, Meat & Livestock Australia)

SFIRP STORM & FLOOD INDUSTRY RECOVERY PROGRAM

PIEFA The leader in food and fibre education.

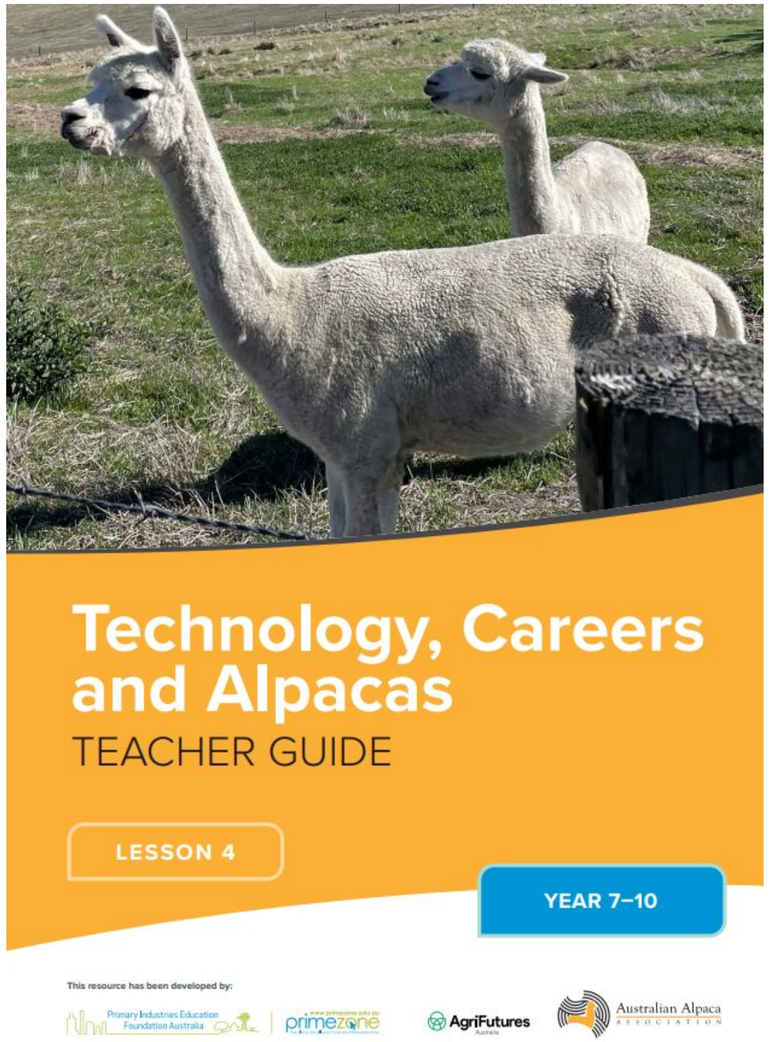
Primezone - Australian Alpacas

[All About Alpacas | Agriculture Lessons]

Teacher Guide:
Lesson Four: Technology, Careers and Alpacas

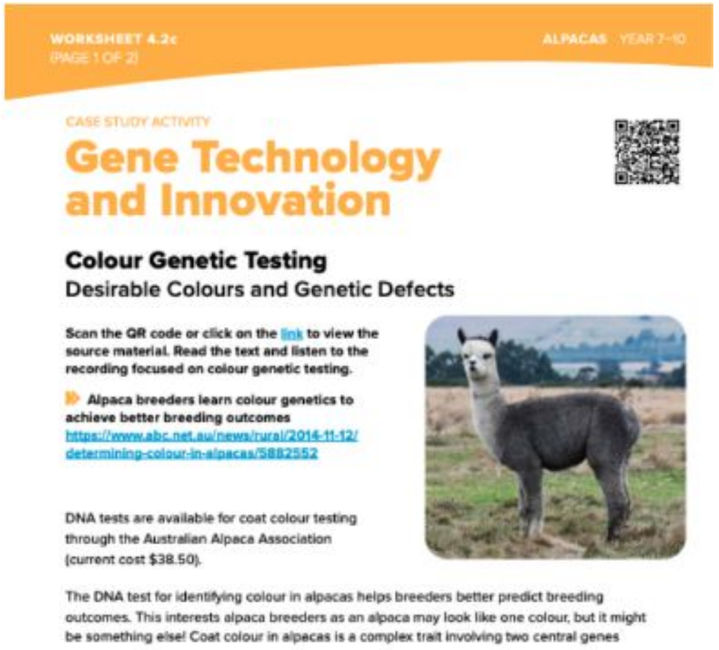
Students learn about

- **Emerging technologies**
- The **National Livestock Identification System** (NLIS)
- **Genetic technologies** to improve **traceability**, **productivity and welfare**
- **Jobs and careers** throughout the alpaca supply chain.



Key content

NLIS
Farming robots [The Future of Farming Robots - 13 High Tech Examples (Compilation)]
Genetics
Performance and productivity monitoring
Gene technology and innovation



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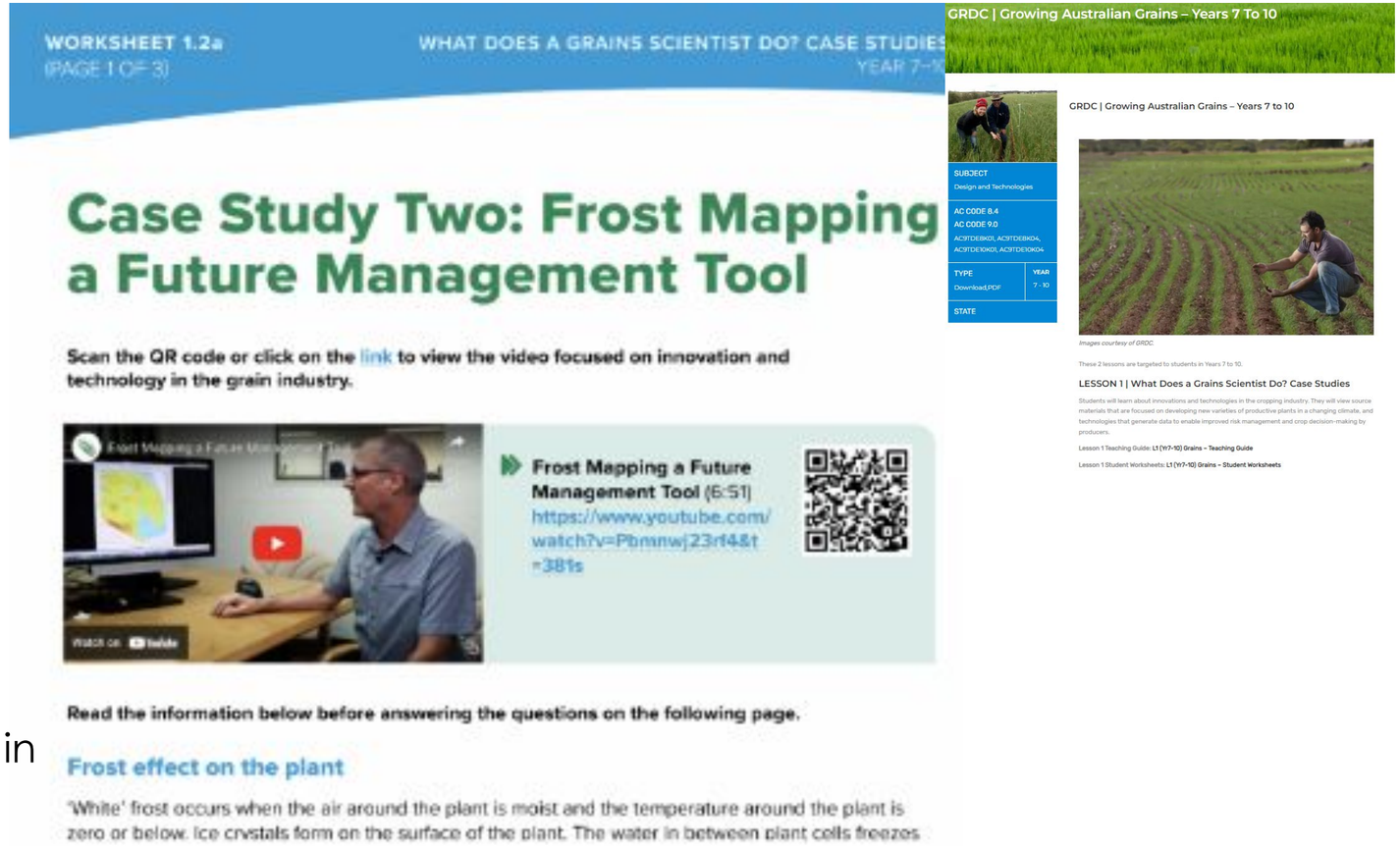
Year 7-10 Grains & Research Development Corporation

https://ezrwbvk28gx.exactdn.com/wp-content/uploads/2023/07/L1-Yr7-10-Grains-Student-Worksheets-1.pdf

GRDC
GRAINS RESEARCH & DEVELOPMENT CORPORATION

Growing Australian Grains

- What Does a Grains Scientist Do?
- Case Studies: Breeding Wheat for a Changing Climate.
- **Case Study Two: Frost Mapping a Future Management Tool**
- Case Study Three: Heat Tolerant Wheat
- Grains Research and Plant Breeding
- Who Invests in Grains Research?
- Plant Breeding
- Breeding a New Plant Variety



Students will learn about

- **innovations and technologies in the cropping Industry**.
- Developing new varieties of productive plants in a changing climate.
- T**echnologies that generate data to enable improved risk management and crop decision-making by producers.**

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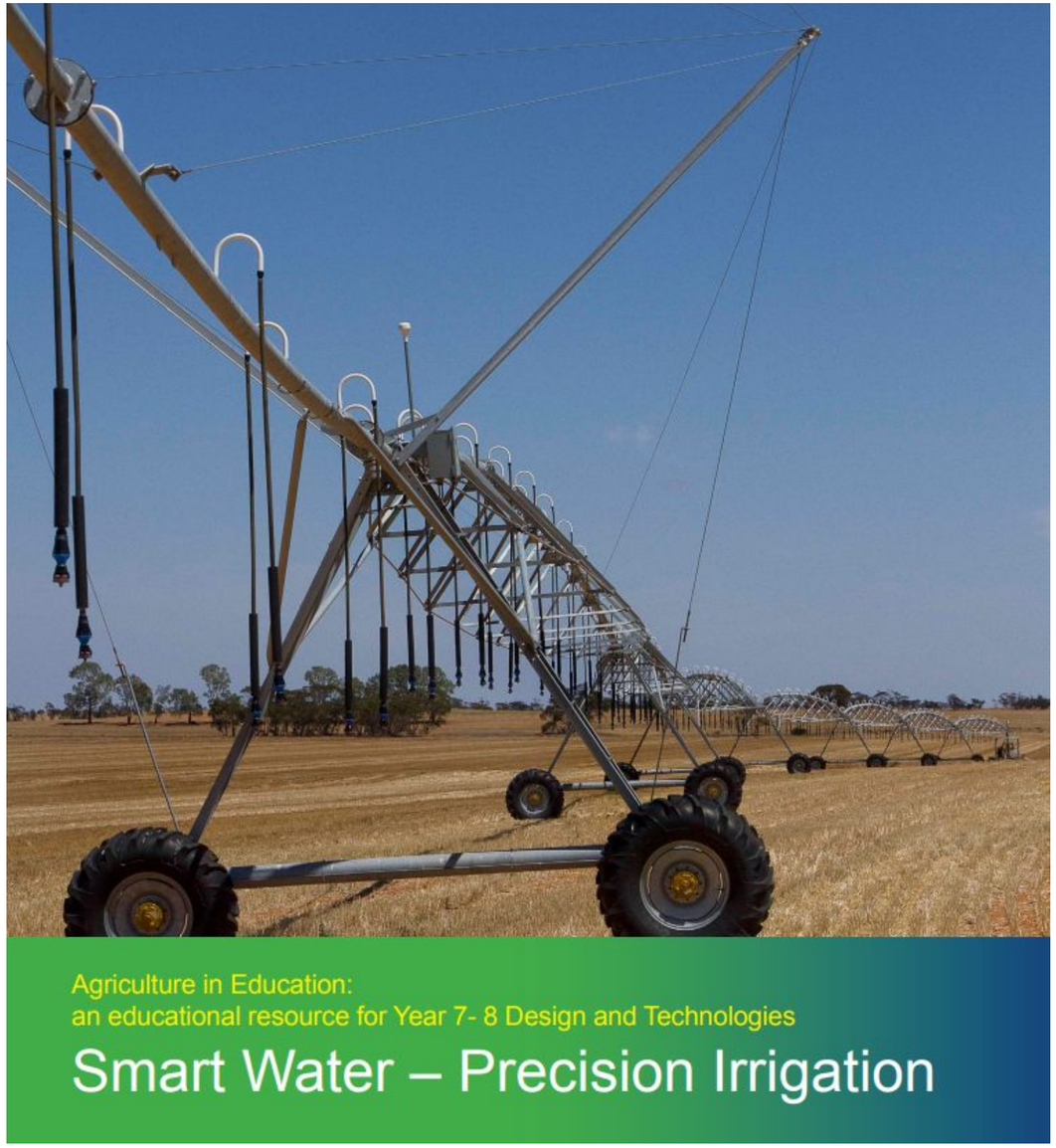
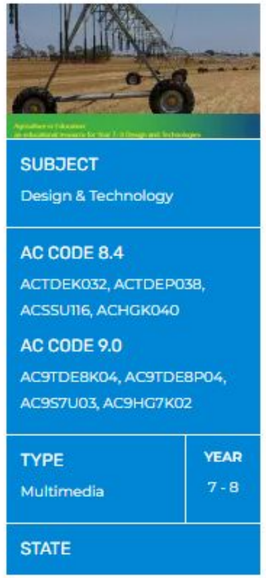
Primezone Smart water

Smart Water – Precision Irrigation | Agriculture Lessons





<u>Suggested optional practical activity for students</u> - get a tap timer/instructions and simple irrigation equipment - get students in teams to design a system controlled by set 1 min program, attach to water point and deliver within a defined time period in teams. Extension: add a fertigation application rate

Put a formative assessment mark /5 (1 mark teamwork, 4 marks ability to complete the following - accuracy, timeframe, connectivity,assembly).

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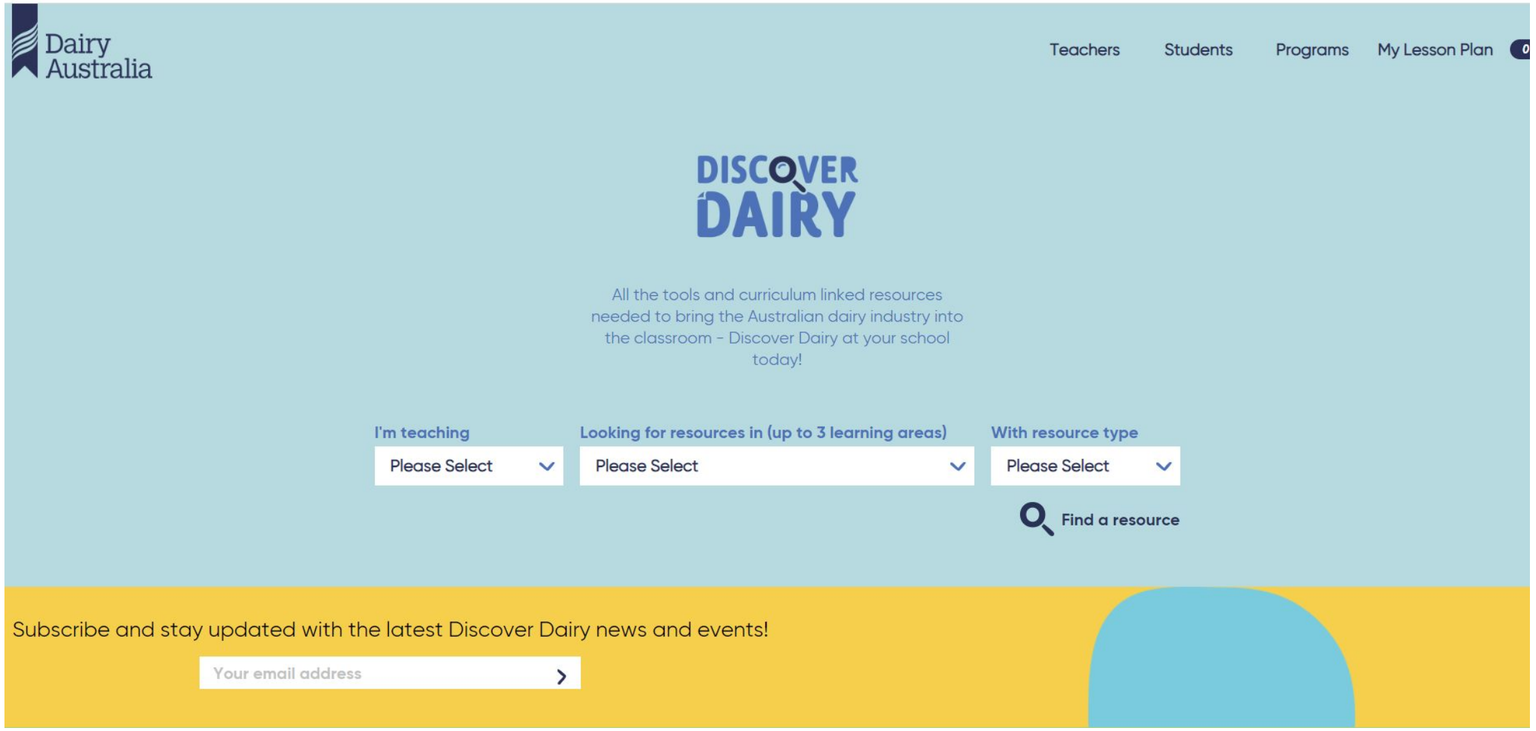
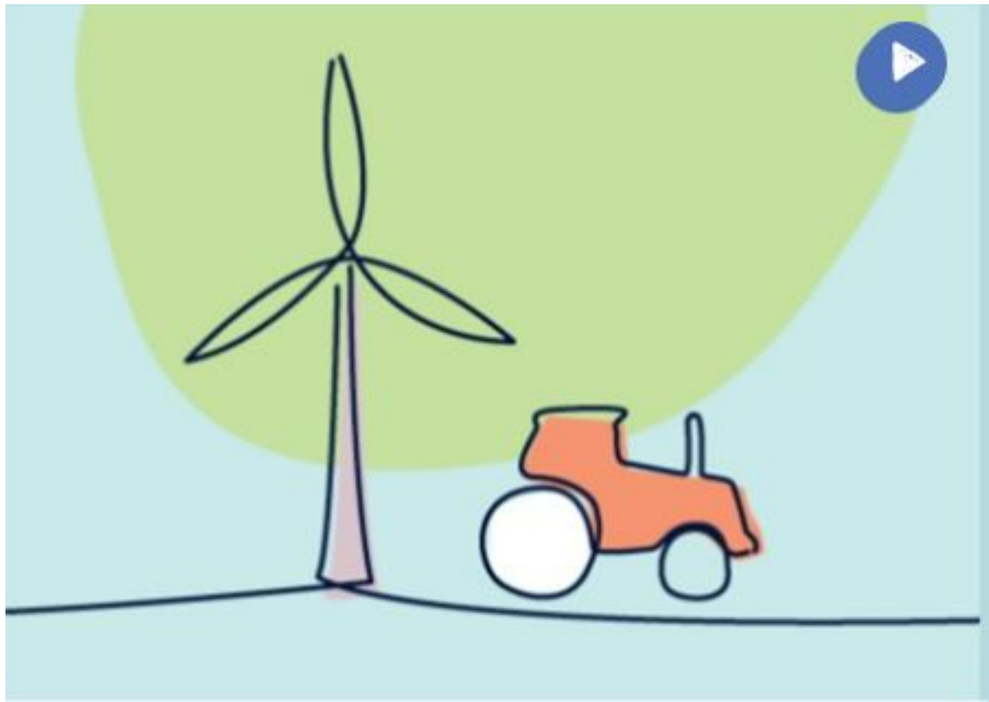
Dairy Australia.

[Discover Dairy | Online platform – Classroom Resources | Agriculture Lessons]





Sustainable Dairy Production YR 9 & 10

This interactive slideshow is for Year 9 and 10 students investigating food and fibre production in Australia. It is linked to Design and Technologies content in the Australian Curriculum and has further curriculum links to English and the Sustainability Cross-Curriculum Priority.

Cows, Dairy, Environment, Australian, Healthy, Industry, Milk

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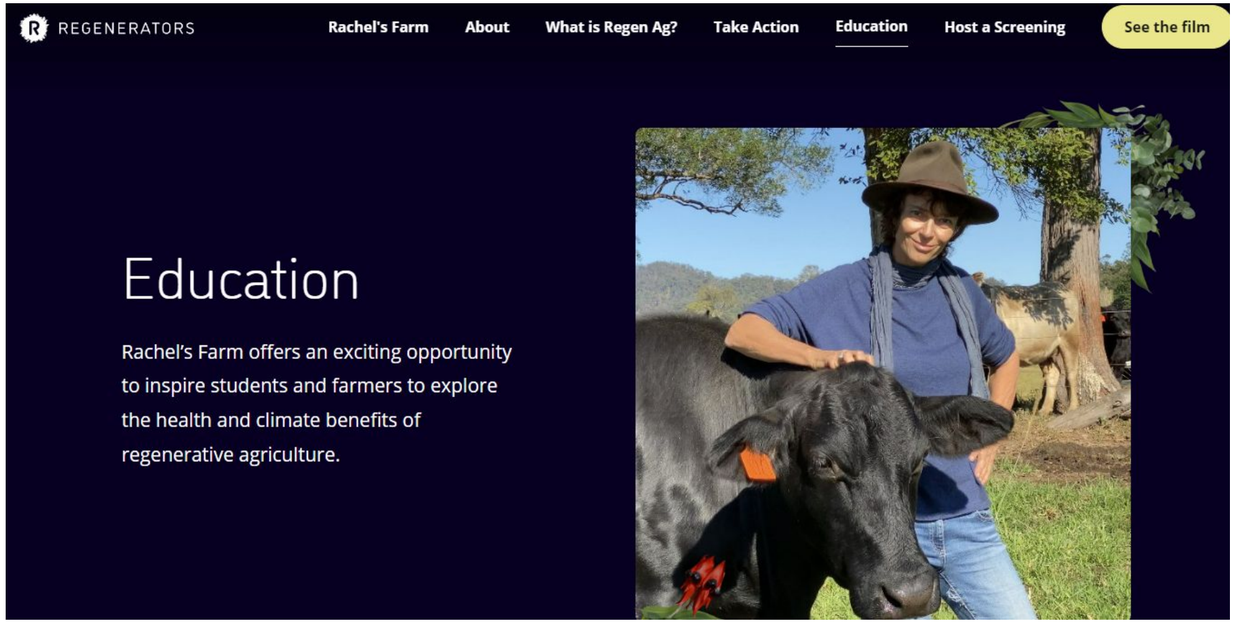
Primezone - Stage 6 geography/science Farm case study Regen Ag “Rachels Farm”

Senior Secondary School - Educational Resources for Rachel's Farm (2).pdf



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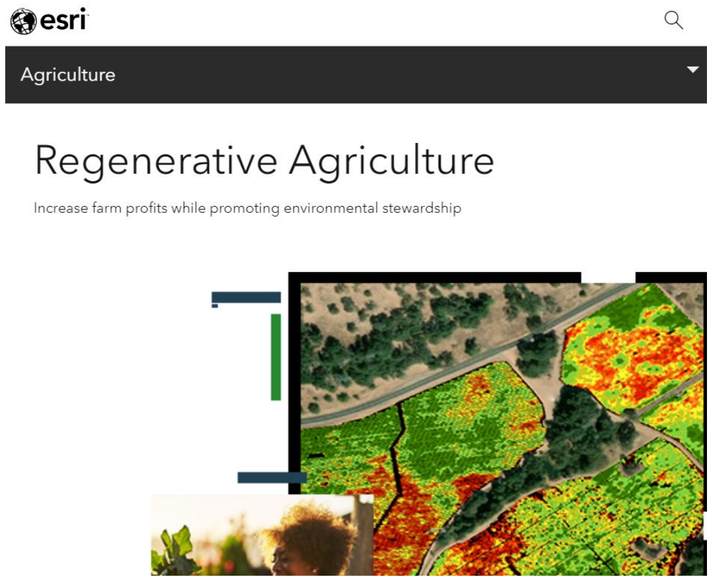
Supporting sources of information on technologies relating to Regenerative agriculture

ESRI regen Ag

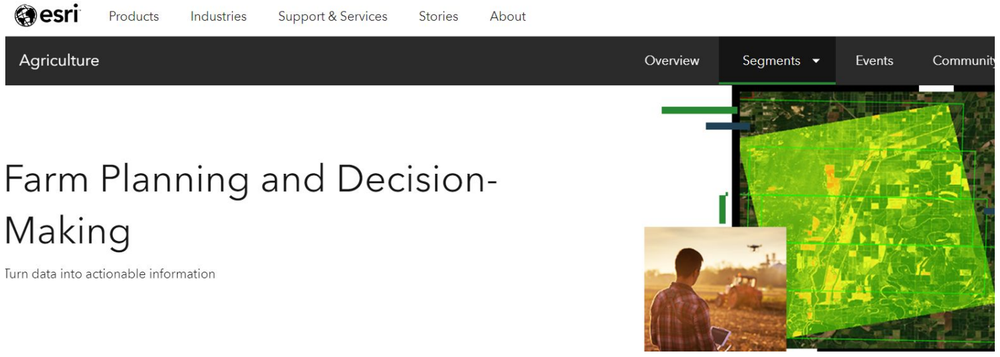
Regenerative Agriculture | Sustainable Agriculture Technology

https://www.esri.com/about/newsroom/blog/how-location-intelligence-powers-sustainable-agriculture/

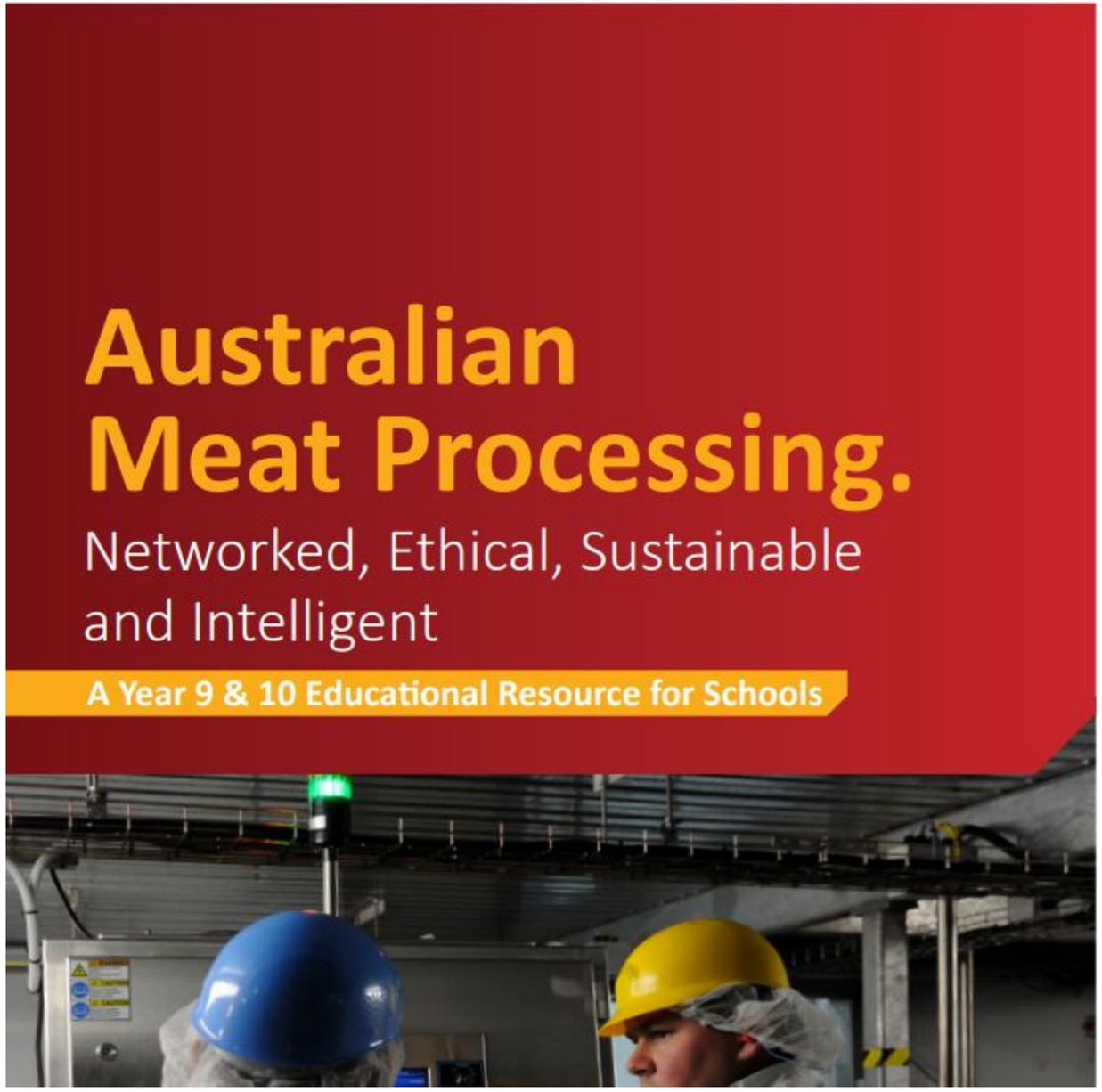


Commercial applications/products.

Farm Planning & Decision-Making



AMPC
AUSTRALIAN MEAT PROCESSOR CORPORATION



Australian Meat Processing.

Page 24 (Robotic cutting) page 26-28 - next evolution of meat processing.

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Stage 6 DET resources

Agriculture

Watch

Watch raising the steaks – the science of cattle breeding video (23:18).

Watch dairy farming into the future video (13:54).

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SUBJECT
Business & Economics
Design & Technology
Geography
Science

AC CODE 8.4
ACTDEP037, ACTDEK029, ACTDEK032, ACHGK048, ACHGK061, ACHGK062, ACHGK063, ACHGK064, ACHGS067, ACHGK070, ACHGK073, ACHGK075, ACSHE121, ACSSU150, ACSHE134, ACSHE136, ACHEK038, ACHEK039, ACHEK050

AC CODE 9.0

TYPE	YEAR
Multimedia	7 - 12

STATE

Farms of the Future

The NSW DPI has taken the initiative to provide teachers with a wealth of educational resources for students studying the Agriculture elective in the HSC curriculum. The aim of these resources is to provide a hands-on, interactive experience for students, giving them a glimpse into the exciting world of modern agriculture and the innovative technologies being used in the field. The 3-part webinar series is an engaging and interactive way for students to learn about the latest advancements in agriculture, from the comfort of their own classrooms.

The virtual farm tours in VR provide students with an immersive experience that takes them inside the workings of a modern farm, giving them a chance to see the innovative technology in action. The interactive maps and live data sensors provide students with real-time information about the commercial farms, allowing them to see how the technology is being used to improve crop yields, increase efficiency and reduce waste. This information is invaluable in helping students understand the importance of using technology in modern agriculture and how it is helping to shape the future of the industry.

The lesson plans, webinars, VR tours and interactive maps are all designed to complement the HSC Agriculture elective and provide students with a well-rounded education in the subject. These resources are a must-have for any teacher looking to engage their students and help them gain a deeper understanding of the exciting world of agriculture. With the focus on sustainability, the NSW DPI is showing students how farming for the 21st century is about more than just growing crops, it's about using innovative technologies to protect the environment and ensure a sustainable future for all.

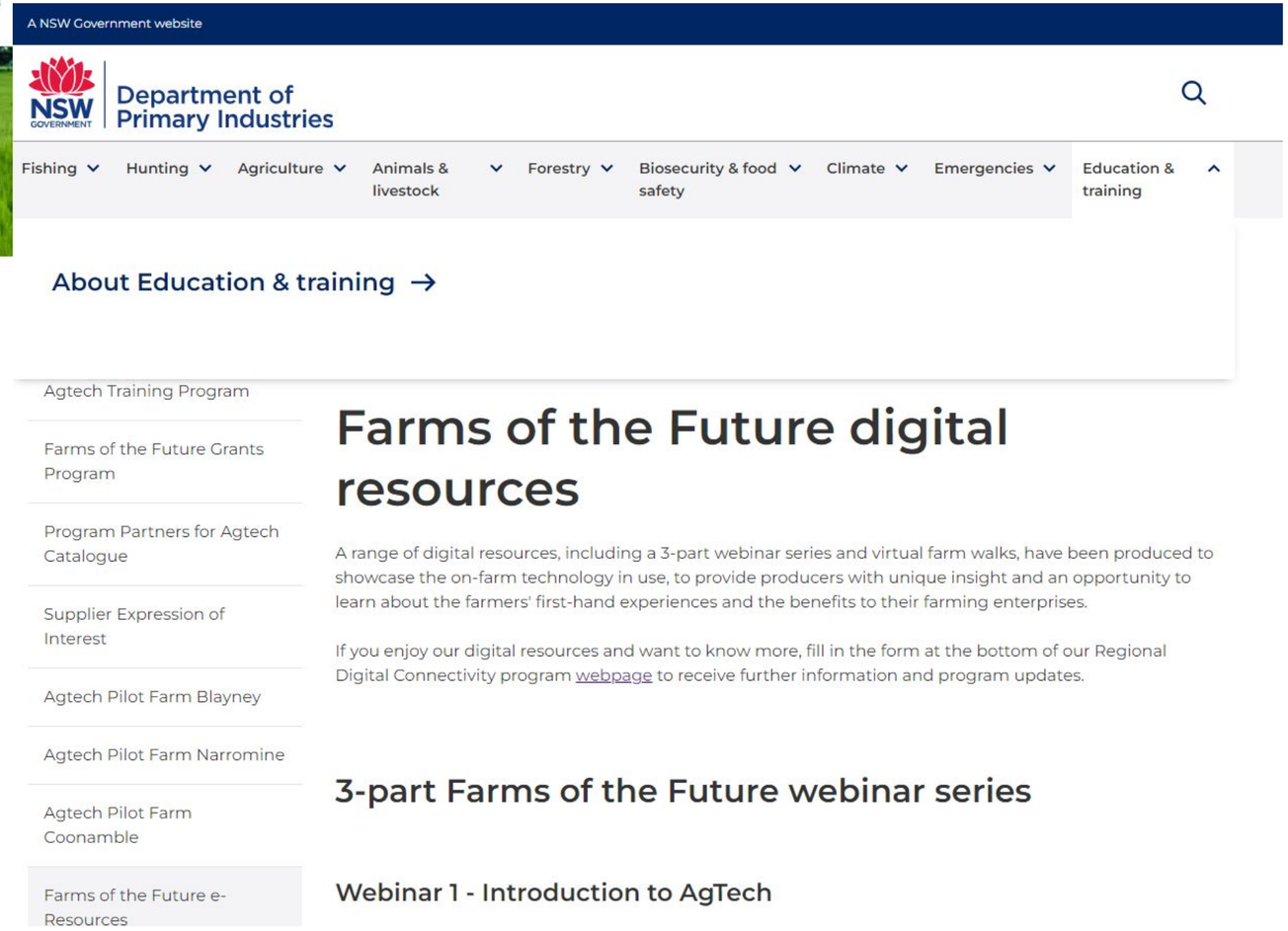
Link

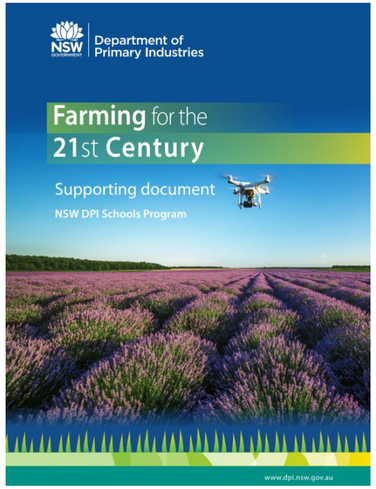
https://www.dpi.nsw.gov.au/dpi/climate/farms-of-the-future

Keywords

Sensors, digital, agritechnology, farming for the 21st century, enterprise, management, VR, live data, real time, 2D mapping

https://primezone.edu.au/resource/farms-of-the-future/





New DPI resource
[Farming for the 21st DOC.pdf]

Example Page 22-25
John Deere Technologies

Agtech Alley [Agtech Alley at Australian National Field Days | Department of Primary Industries]

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In development: Science

Year 7-10 Hort Innovation: The Mighty Mushie Education Resources.
These resources feature uses of technology in the production chain.

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Growing the future……

Thank you for attending this event.

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ATTRIBUTION, CREDIT & SHARING

This resource was produced by Primary Industries Education Foundation Australia (PIEFA) with thanks to the support of UNE Armidale, UNE staff and academics for the access to the sites and presentations. Primary Industries Education Foundation Australia's resources support and facilitate effective teaching and learning about Australia's food and fibre industries. We are grateful for the support of our industry and member organisations for assisting in our research efforts and providing industry-specific information and imagery to benefit the development and accuracy of this educational resource.

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Primary Industries Education Foundation Australia

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