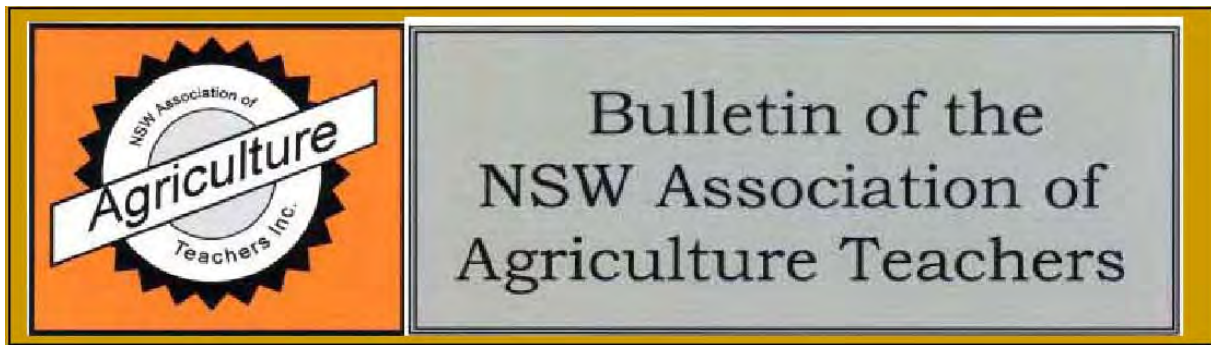




B.A.A.T

**Summer Edition – No: 43
2013**



N.S.W. Association Agriculture Teachers Inc



www.nswaat.org.au

ABN Number: 81 639 285 642



President's Report

Primary Industries Activity: Learning about Weather
NAAE Conference

PIEF November Newsletter

Schools in the News
Upcoming Events
Snippets

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President's Report

In 2013 I have used my role as president of NSWAAAT to really assist with helping teachers in their agricultural endeavours on a day to day and farm to farm basis. The use of 49GB of an external hard-drive with resources gathered from a number of agriculture teachers, universities and other resource centres has greatly assisted with this service.

This is just about the hit the mail boxes of a number of teachers around the state. So if you're keen to be on that list – please email carl.chirgwin1@det.nsw.edu.au by the end of the year with your name, school and postal address and it will come to you in 2014.

I would like to thank each member and school for their submission with Agriculture Education Review which Jim Pratley undertook earlier in the year. This was seen in *'The Land'* newspaper a few weeks back and the full results should be known before Christmas. Once done, we all need to work as an organisation in uniting together to make it work in ours and other schools both Primary & Secondary; in enhancing agricultural education.

National Association of Agricultural
Educators New Zealand Conference –
January 12 -16th

[http://www.naae.asn.au/pages/naae/
national-conference.php](http://www.naae.asn.au/pages/naae/national-conference.php)
Rego's due by 15/12/13

Thanks to **Graeme Harris** with his work with the political front of agricultural education. Time and time again, Graeme keeps the NSWAAAT in the loop with equipment changes and how governments are impacting on our daily aspects, this does not go unnoticed.

**CONGRATULATIONS TO GRAEME ON HIS LIFE MEMBERSHIP
NOMINATION AND RECIPIENT FOR NSWAAAT FOR 2013**

**CONGRATULATIONS TO ARTHUR KELLY ON HIS JA SUTHERLAND
NOMINATION AND RECEIPT FOR NSWAAAT FOR 2013**

It's time to jump the ditch for some Kiwi fruit

There are many people who assist this organisation with running each day. The whole committee has had a big challenge of filling the roles that are required. However, after a few speed humps and hot chooks, we are managing to move forward the best we can.

As an executive member for six years I decided to try and introduce a new meeting technology for the committee and for others to join on known as online conferencing. This technology allows any educator or support staff to log onto a meeting via their computer, IPad, iPhone, Android or via Telephone which will make us a more accessible organisation. This will continue 2014 as I've had many comments of NSWAAAT conducting a series of agriculture information sessions on a monthly basis.

So Watch this Space

My goal is to continue to assist teachers. However, I would love more teachers and schools to assist themselves by joining the association and interacting via email, Facebook, Edmodo, our website, online meetings, attending conferences, in person or just a good old phone call.

NSWAAAT CONFERENCE
LENNOX HEAD, NSW
JANUARY 2015
CHECK www.nswaat.org.au for more info

Yours' in Agricultural Education,
Carl Chirgwin
President NSWAAAT 2013-2015



CLAIM THE DATE

NSWAAT



BIENNIAL

CONFERENCE

11-15th January 2015

Ballina

**More details to come in 2014 via email
& *www.nswaat.org.au***



Membership

- Current Association Membership List

December 2013

Valid Until End of:	Given Name	Surname	School / Organisation
2015	Teacher of Agriculture		Moss Vale High School
2014	Teacher of Agriculture		All Saints College Bathurst
2014	Teacher of Agriculture		Gunnedah High School
2014	Teacher of Agriculture		St Ignatius College
2014	Teacher of Agriculture		St Joseph's College
2014	Teacher of Agriculture		Trinity Catholic College
2013	Teacher of Agriculture		Bomaderry High School
2013	Teacher of Agriculture		Griffith High School
2013	Teacher of Agriculture		Mudgee High School
2013	Teacher of Agriculture		Young High School
2013	Teacher of Agriculture		Wingham High School
2013	AUSTRALIAN NATIONAL FIELD DAYS		
2013	Philip	ARMOUR	Yass High School
2013	Dianna	BEALE	Tumut High School
2013	Susan	BEHAN	Denison College-Kelso High Campus
2014	William	BLOWES	Yeoval Central School
2014	Cathryn	BOURNE	Maitland High School
2013	Deborah	BUNN	Education Student, UNE
2013	Lynda	BUTTSWORTH	Jamison High School
2013	Jennifer	CAINES	Mount Annan Christian College
2014	Dale	CHADWICK	Gundagai High School
2013	Carl	CHIRGWIN	Griffith High School
2014	Luke	COLLINS	Yanco Agricultural High School
2013	Justin	CONNORS	Manilla Central School
2014	Ian	CRABB	Queanbeyan High School
2014	Anita	DE LA MOTTE	Bomaderry High School
2013	Erin	DENNIS	Lake Cargelligo Central School
2013	Michelle	DOWSETT	Blayney High School
2013	Meagan	DUNFORD	Blayney High School
2014	Nicole	DWYER	Gloucester High School
2014	Susan	EARL	Red Bend Catholic College
2013	Belinda	EVERINGHAM	Deniliquin Christian School
2015	Guy	FAHEY	Albury High School
2014	Rob	FORSBERG	St Josephs College
2015	Richard	GRANT	James Ruse Agricultural High School
2014	Neil	GRIFFITH	Irrawang High School
2014	Belinda	HAIGH	Dubbo School of Distance Education
2015	Graeme	HARRIS	Farrer Memorial Agricultural High School
2015	Leonie	HARRIS	Frensham
2013	Lois	HARRISON	Merriwa Central School
2014	Colin	HAWTHORN	Red Bend Catholic College
2014	Stuart	HEMMINGS	New England Regional Office
2015	Michael	HOLLAND	Scone Grammer School
2015	Peter	HUMPHRIES	Deniliquin High School
2013	Judith	ING	Student Teacher
2013	Maqsood	IQBAL	St Johns Park High School
2013	Grant	JACKSON	Gosford High School

Valid Until End of:	Given Name	Surname	School / Organisation
2013	Karen	JOHNSTON	James Ruse Agricultural High School
2013	Ken	JONES	Blayney High School
2014	Ian	JUDD	St Johns College
2015	Prue	KESBY	St Mary's College
2014	Owen	KNIGHT	Dubbo Christian School
2013	Danielle	KRIX	Hurlstone Agricultural High School
2013	Rachel	LILLIEBRIDGE	Narrabri High School
2013	Hayley	MAHONEY	Picton High School
2013	Diana	MARTIN	Murwillumbah High School
2014	Julie	MASLIN	Casual
2013	Ross	McGREGOR	Hurlstone Agriculture High School
2014	Jacqueline	McINTOSH	Crookwell High School
2013	Richard	McKAY	Farrer Memorial Agricultural High School
2015	Allan	McMILLAN	Wagga Wagga High School
2013	Mick	MELINO	St Johns College
2014	Mufutau Afolabi	NASIRU	Sarasas Witaed Suksa School
2015	Bronwyn	NIELSEN	Calrossy Anglican School
2014	Georgina	OAKES	Inverell High School
2014	Lisa	O'BRIEN	Yanco Agricultural High School
2014	Glen	PARTRIDGE	Inverell High School
2014	Georgina	PRICE	Parkes High School
2015	Graham	QUINTAL	Retired
2015	Katie	ROWE	Gulargambone Central School
2014	Elizabeth	RUIS	Windsor High School
2013	Trevor	SEWELL	Retired
2015	Nicole	SIMMONS	Warialda High School
2013	Leanne	SJOLLEMA	McCarthy Catholic College
2014	Paul	SMITH	Cowra High School
2013	Jade	SMITH	Dunedoo Central School
2013	Deb	SNAITH	Macintyre High School
2014	Skye	VAN DEN BERGE	Marion College
2013	Emma	WEATHERLY	Gilgandra High School
2014	Wayne	WHALE	St Paul's College
2014	Maurice	WOODMAN	Murray High School
2013	Beth	WORTHY	Sapphire Coast Anglican College
2015	Jan	YOUNG	Murrumburrah High School

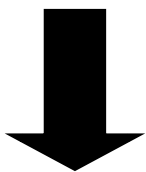


It's time to jump the ditch for some Kiwi fruit



Important notice..

A
g



TREASURER

Leanne Sjollem
McCarthy Catholic College
PO Box 3486
West Tamworth NSW 2340
treasurer.nswaat@gmail.com

& you require

- *not financial or*
- *a new graduate or*
- *your membership status has lapsed*

- *Resources.*
- *Aggie contacts.*
- *Information/subsidies of Agriculture Teachers conferences.*
- *Assistance in your professional duties.*

then you need to join the Association to assist in maintaining:

- *the Association's strength & support across the state,*
- *the place of your subject in the school curriculum,*
- *networking throughout the state,*
- *delivery of a BAAT twice a year,*
(Bulletin Association of Agriculture Teachers)
- *your say in Agriculture & PI teaching issues,*
- *access to professional readings.*

**COMPLETE THE
"APPLICATION FOR
MEMBERSHIP"
FORM ON THE NEXT
PAGE
&
SEND TO THE
ASSOCIATION'S
TREASURER WITH
YOUR PAYMENT.**

NSWAAT WEBSITE
www.nswaat.org.au

Please visit the website and catch up on what has been happening.

There are lots of photos from the Biennial Conference and many resource links to assist your teaching of Agriculture and Primary Industries.

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NSW Association of Agriculture Teachers

TITLE: _____ NAME: _____

SCHOOL: _____

PHONE: _____ FAX: _____

EMAIL: _____

POSTAL ADDRESS: _____

_____ P/C: _____

MEMBERSHIP FEES:

* 1 YEAR: _____ \$60 (2014)

* 2 YEARS: _____ \$120 (2014-15)

NB: Subscription applies for period from January 2014 for either one or two year period.

Subscription Required: _____ Year(s)

Amount Enclosed: \$ _____

Direct Deposit Option: To pay via direct deposit, please post this membership form and use the following details for internet banking transfers.

BSB: 082 939 **Account Number:** 639 757 522

Reference: Your name and "membership".

Please forward completed form with payment to:

Leanne Sjollema

McCarthy Catholic College

PO Box 3486

West Tamworth NSW 2340

treasurer.nswaat@gmail.com

*"The NSW Association
of Agriculture
Teachers is not
registered to collect
GST"*

Charles Mullavey Memorial Prize 2012

Christine Tan



Christine Tan of Pymble Ladies College was awarded first place in 2 unit Agriculture in the 2012 HSC examination. Sally Rivett, Christine's teacher said that this was a well-deserved result, due to the hard work and effort that she put into her studies.

At Pymble Ladies College, students are able to elect to study Agriculture from Year 9 through to Year 12. Christine became involved with the program in Year 9 and continued her studies of Agriculture through to Year 12. During her time studying Agriculture, she was an active member of the class.

Christine showed great commitment to her studies and showed a great interest in Agriculture. This interest in Agriculture and her positive approach to her studies consistently placed her at the top of class each year. Christine also showed a great enjoyment toward the practical component of Agriculture, where she was always involved in activities occurring on the school farm.

Congratulation to Christine Tan for her fine efforts in the HSC Agriculture exam and to her teacher Sally Rivett.

Amended HSC Agriculture Syllabus

After concerns were raised by a number of schools, there have been a total of 15 amendments made to the Agriculture syllabus. These changes involved the replacement of the words "such as" with "including" and "or" with "and". The amendments are designed to clarify the content covered, improving consistency, deleting content for better manageability and updating terminology.

Teachers are advised that these amendments need to be implemented for Year 11, 2014, and first examined in the 2015 HSC examination. The amended syllabus, as well as the tracked changes, are available for download from the Board of Studies website at:

http://www.boardofstudies.nsw.edu.au/syllabus_hsc/agriculture.html



Retirement Note from Ivan Gant

Hi All

For all the people who know me, Friday 8th November will be my last day working for the department.

I joined the Department in 1978, starting at Canowindra High School. Most of my teaching career has been spent at Merriwa Central School, teaching agriculture and science in the earlier years. Then as VET HT teaching Agriculture, PI and IT.

In 1994, I ventured into some out of school work with DEC around connected classroom technology. Then in 1997 moved out of home through the week to work in VET consultancy in Newcastle. During these latter years like so many consultants; I have been through new waves of centralisation & de-centralisation – dressed up every time in new ‘sheep’s clothing.’ I have been given great policy initiatives to implement, I have had lousy ones to implement, as well. What this has taught me is that despite whatever flavour of crap we are being fed – people out there still need help & assistance.



The best thing I have enjoyed in my time in the Department, is the opportunity to work with (& get to know) some really capable, common sense people; with a great ‘can do’ attitude. Especially those from this group, NSWAAAT. The last few years of work even though they were based away from home were part-time, which allowed me to work a bit more at home on the farm and spend a little more time with my wife. This year I went back to full-time teaching, once again living away from home; it is this situation, which has led me to the decision to retire and take a different tack. The plan is to spend more time on the farm and do some teaching from the beginning of 2014. I may pick up some work locally, but if any of you want to take some time off and need someone to fill in for Ag, or PI, I am keen to oblige, if I am available with a few conditions a month or two would be fine.

I will miss a lot of you people. I will miss the interaction, the humour & the camaraderie.

I wish you all well for the future.

Regards,
Ivan Gant



It's time to jump the ditch for some Kiwi fruit

Equipment Safety in Schools (ESIS)

DEC teachers are advised that new controls are in place for the Teaching / Learning Tractors, PTO, 3PL and other equipment. These are not in draft form. They must be applied NOW. You are encouraged to download the pdf files on the DEC website. Details are on the next page.

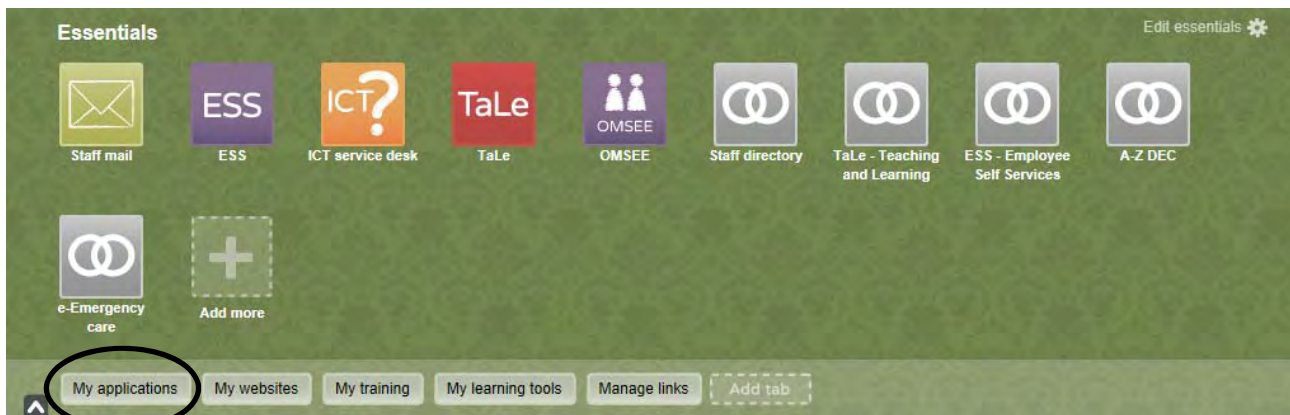
There are 18 new files and consist of:

1. Boom Spray including 3 Point Linkage & Trailing Spray
2. Disc Plough-Attachment including Tillage Attachments, such as Scarifiers, Rippers, Mouldboard Plough, Harrows, Combine/Seeders and like implements
3. Fertiliser Spreader including 3 Point Linkage & Trailing Spreaders
4. Livestock Crush
5. Loader – Attachment
6. Post Driver – Attachment
7. Post Hole Digger, Attachment
8. Post Hole Digger - Non Attachment (Motorised/Portable)
9. Power Take-Off Drive (PTO)
10. Rotary Hoe, Attachment
11. Rotary Hoe, Cultivator (Walk Behind) <= 7hp
12. Livestock Shearing/Clipping Equipment
13. Silos
14. Slasher Attachment, including Pasture Mulcher, Tritter and Mower Conditioner.
15. Soldering, Sheet Metal
16. Three Point Linkage
17. Tractor, Teaching & Learning
18. Draw Bar attached Trailers (excluding Trailers fitted with Hydraulic Connections)

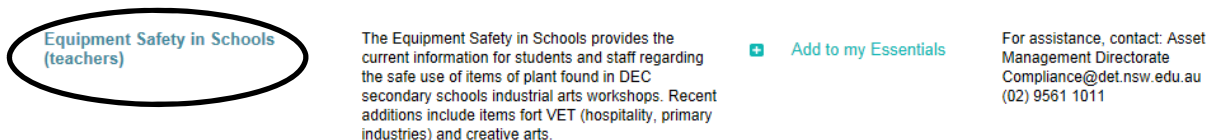


How to Access the ESIS documents

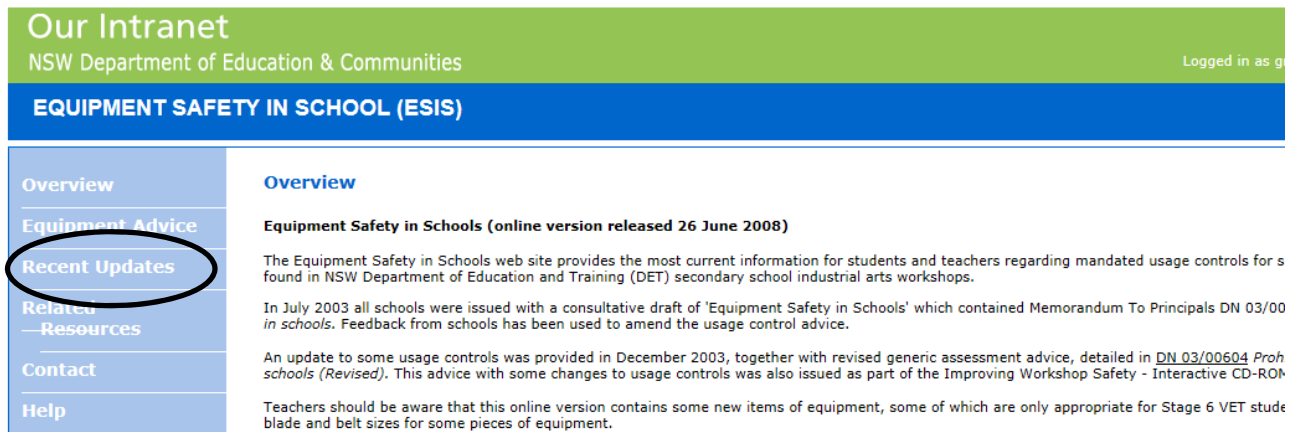
1. Log into the DET Portal
2. On your home page click on “My Applications”



3. Scroll down to “Equipment Safety in Schools (teachers)” and click on that link



4. In the new window that opens up click on the “Recent Updates” link in the menu in the left column



5. From the pull down menu select “Show updates in the last 3 months” and click “Search”



6. You should get 18 responses, from which you can download a pdf file of each.

NAAE Conference 2014

National Association of Agricultural Educators (Australia)

Sunday 12 January – Thursday 16 January 2014

Full Registration

\$500 AUD per person including GST (early bird registration fee until 18 October 2013)

Full registration includes all of the following:

Airport transfers
All meals and accommodation (including conference dinner)
Conference material and bag
Field trips
Social occasions

To find out more about the conference programme and the post conference tour go to www.telford.ac.nz/naae

Registrar:

Mick Melino
P 04 3232 0558
E mmelino@lism.catholic.edu.au

Queries regarding curriculum matters or conference details:

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Balclutha 9240
New Zealand
P +64 3 419 0300 extn 844
E andrew.thompson@telford.ac.nz

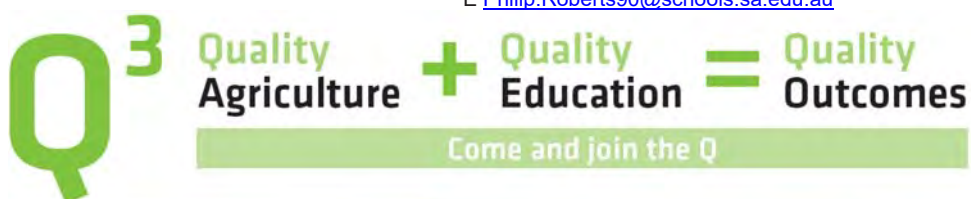
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Carl Chirgwin (New South Wales)
E Carl.Chirgwin1@det.nsw.edu.au

Phil Roberts (South Australia)
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Mandy Lindsay (Queensland)
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Alysia Kepert (West Australia)
E alysia.kepert@curriculum.wa.edu.au



Learn more
www.telford.ac.nz
+64 3 419 0030



Telford
Te Whare Wānaka o Puerua
A Division of Lincoln University

Registration Form

Please use a separate form for each person (photocopy acceptable)

Additional copies can be downloaded from www.telford.ac.nz/naae

Important: Read all the information before completing the form. Amounts are in Australian dollars and include GST

First Name:			Family Name:		
Name on Badge:					
School Name:					
Postal Address:					
Email Address:					
Telephone:			Mobile:		
Special requirements	Dietary:				
	Medical:				
Contact in the event of an emergency	Name:				
	Telephone:		Mobile:		
Full Registration	\$500.00 AUD early bird by 18 October 2013 \$550.00 AUD before 1 December 2013 (no registrations can be accepted after this date). Post conference Tour Registration \$550.00 AUD by 18 October 2013 (no registrations can be accepted after this date). Total Paid				
Airport transfers (if known)	Arrival flight #:		Arrival time:		
	Departure flight #:		Departure time		
There are a variety of accommodation options available in the area, see the Bring your Families section of www.telford.ac.nz/naae					
Partners and families accommodation	Contact name:				
	Accommodation:				
	Telephone:				

Conference information available from www.telford.ac.nz/naae

Cheque payable to: N.A.A.E

Postal Address: Attention Mick Melino (Treasurer), St Johns College, P.O. Box 6, N.S.W. 2480

OR

Direct Deposit: BSB 063 845 Account number 10026062

Please identify the school or organisation you are connected with when transferring funds.

Paid by cheque ☐ BSB ☐

Registration: Post or email registration to Mick Melino.

Learn more
www.telford.ac.nz
 0800 835 367



Telford
 Te Whare Wānaka o Puerua
 A Division of Lincoln University

NAAE Conference Programme

Sunday 12 January – Thursday 16 January 2014

	Sunday 12 January	Monday 13 January	Tuesday 14 January	Wednesday 15 January	Thursday 16 January
7.00am–8.30am	Breakfast (Dining Room)	Breakfast (Dining Room)	Breakfast (Dining Room)	Breakfast (Dining Room)	Breakfast (Dining Room)
8.30am–10.00am	Airport transfers to Telford campus commencing 10.00am	Keynote speaker: Quality agriculture and the importance of having a vibrant economic and a well-trained and educated workforce.	ACARA updates and developments	Workshop on implementation of national curriculum. Breakout into States or New Zealand regions.	NAAE AGM • Election of office bearers • Next conference.
10.00am–10.30am		Morning tea	Morning tea	Morning tea	Morning tea
10.30am–12.00noon		Demonstration of remote learning technologies that are used to deliver agriculture to rural schools in New Zealand.	10.30am ACARA Forum 11.00am New Zealand recruitment and retention of students into agricultural programmes and careers. 11.30am PIEF – Australian recruitment and retention of students into agricultural programmes and careers.	School and community partnerships How to assist schools in developing these partnerships.	Quality teaching and KPI
12.00noon–1.00pm		Lunch (Dining Room)	Lunch (Dining Room)	Lunch (Dining Room)	Lunch (Dining Room)
1.00pm–2.30pm		Practical sessions (choose one): • Sheep farming • Deer farming • Dairy farming • Horticulture activity.	Field Trips away from Telford (choose one): • Fonterra Edendale (Milk processing factory) • Finegand freezing works • Invermay agricultural research station (subject to staff availability) • Horticulture nursery Cool climate crops.	Practical sessions (choose one): • ATVs • Tractors • Chainsaws • Fencing • Large animals • Horticultural activity.	Airport transfers available, if required or Join the post conference tour
2.30pm–3.00pm	Afternoon tea	Afternoon tea		Afternoon tea	
3.00pm–5.00pm	Airport transfers to Telford campus Registration desk open	Practical sessions (choose one): • Sheep farming • Deer farming • Dairy farming • Horticulture activity.		Practical sessions (choose one): • ATVs • Chainsaws • Fencing • Horticultural activity. • Large animals • Tractors	
5.00pm–5.30pm	Free time	Free time	Free time	Free time	
5.30pm–6.00pm	Whakatau	Dinner	Dinner	Free time	
6.00pm–7.00pm	Dinner	Happy hour	Happy hour	Conference dinner 6.00pm-10.00pm River Ridge Retreat	
7.00pm–9.00pm	Happy hour Drinks and nibbles	Evening activity	Evening activity		

NAAE Post Conference Tour

Thursday 16 January – Wednesday 22 January 2014

Thursday 16 January	Friday 17 January	Saturday 18 January	Sunday 19 January	Monday 20 January	Tuesday 21 January	Wednesday 22 January	
	Breakfast provided	Breakfast provided	Breakfast provided	Breakfast provided	Breakfast provided	Breakfast provided	
	Own lunch	8.00am Depart Queenstown	Free day in Franz Josef OR 10.00am A bus will leave for the Franz Josef walk and view the glacier Two hours return	8.00am Depart Franz Josef View a dairy farm on the West Coast	9.00am – 10.00am Meet in Lecture Theatre. Discussions on Lincoln University and its contribution to quality in agriculture. Topics will relate to teaching, research and extension.	Depart for home Airport transfers will be departing 8.30am arriving at airport approximately 9.30am.	
		Winery visit 10.00am Depart from winery					
		11.30am – 12.30pm Stop at Blue Pools 30 minute walk and photographic opportunity					
							Own lunch
		Free day in Queenstown	1.00pm Arrive at Pleasant Point for lunch (provided)	Free afternoon and evening	1.00pm View Points Otira Gorge (photographic opportunity)		1.00pm–4.00pm Visit farms and research activities relevant to Agriculture and Horticulture, surrounding Lincoln University
					3.15–4.30pm Arrive Lake Mathieson (walking track around lake).		5.30pm Arrive at Lincoln University
			5.00pm Arrive Franz Josef Free evening		6.00pm Dinner provided		6.30pm Tour of Christchurch cityscape
		Own dinner	Own dinner	Own dinner	Own dinner		Evening free

Cattle Breeds and Market Specification Worksheets

courtesy of Graham Wilson, Mudgee High School

1. Cattle Breed Types – Questions

Download the Primefact #623: Beef Cattle Types at

http://www.dpi.nsw.gov.au/_data/assets/pdf_file/0003/148080/Cattle-breed-types.pdf

From the article, answer the following questions:

1. What important factors should be considered before choosing a breed or breed type for your property?

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2. Outline the special features of:

- a. British Breed Cattle

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- b. European Breed Cattle

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- c. Bos indicus (Zebu) Breed Cattle

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3. Define and give examples of a composite breed.

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2. Tropical Cattle – Questions

Download the document at: <http://www.fao.org/docrep/009/t0095e/T0095E04.htm>

From page 1, summarise the 3 paragraphs that outline why Zebu cattle are well adapted to tropical environments

3. Market Specifications for Beef – Questions

Download and read Primefact #621: Market specifications for beef cattle at:

http://www.dpi.nsw.gov.au/_data/assets/pdf_file/0005/148415/Market-specifications-for-beef-cattle.pdf

1. Define the term 'Store' when describing cattle

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2. Explain why some producers will sell store cattle rather than growing them to feedlot or slaughter specifications.

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3. Complete the following table that compares supermarket and local butcher specifications:

	Local Butcher (trade) Cattle	Supermarket Cattle
Teeth (age)		
Carcase Weight		
Live weight		
Feeding		
Fat depth at P8		
Sex		

4. Compare Carcase weight and fat score for early and late maturing breeds.

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5. Explain how cross breeding can help meet specific market specifications.

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4. Beef Cattle Breeding Systems – Questions

Download the Primefact #624: Beef Cattle Breeding Systems

http://www.dpi.nsw.gov.au/_data/assets/pdf_file/0006/148038/Beef-cattle-breeding-systems.pdf

From the document answer the following questions:

1. Define and give the desired outcome of the following breeding systems:

a. Straight breeding

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b. Cross breeding

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2. Explain why it is important to base a cross breeding program on “animals of high genetic merit”.

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3. Explain why cross breeding provides greater flexibility in the marketing of beef.

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4. In a ‘terminal sire’ breeding system, some breeds of sire may not be suitable for mating with heifers. Explain this statement.

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5. Outline the benefits of a 'terminal sire' system

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6. Outline the disadvantages of this system

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7. Describe one 'terminal sire' breeding system that would be suitable for the central tablelands on NSW on dryland pastures.

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8. Define and give examples of a 'composite breed'.

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9. Outline the advantages of developing a composite breed.

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5. B taurus X B indicus under Different Environments – Questions

Read Agfact A2.3.34 “Bos indicus/Bos taurus crosses - growth in different environments” at

<http://www.dpi.nsw.gov.au/agriculture/livestock/beef/breeding/general/bos-indicus-taurus-cross>

Answer the following questions while consulting the article:

1. Use table 1 for the following

a. Under which pasture types would Braham out-perform Hereford cattle?

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b. Identify the best performing cattle under each pasture type.

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c. Define ‘F1’.

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d. Explain why B x H produces different results to H x B on poor pastures.

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2. Use table 2 for the following

a. Identify the best performing cattle under each pasture type post-weaning.

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b. Compare these results to the answer for 1b.

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c. Explain the similarities and differences you identified when comparing pre-weaning to post-weaning growth.

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6. Marbling in a Nutshell - Questions

Download the document:

http://www.beefcrc.com/documents/publications/producer-books/Science_Quality_Beef.pdf

Read pages 32-33 then answer these questions:

1. Define marbling

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2. Outline the benefits of marbling in meat

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3. Explain why heavily marbled beef is mostly marketed to restaurants in Australia

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4. Outline the factors that affect marbling and explain the effect they have on this

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7. Why Wagyu? - Questions

Go to the webpage: <http://www.blackgoldfarms.com.au/whywagyu.html>

Read the information and answer the following questions.

1. The article claims that Wagyu beef is the world's tastiest beef.

a. Outline the characteristics of this meat that make it taste good.

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b. Explain how this claim was supported.

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2. Outline the characteristics of Wagyu fat that make it the best beef.

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3. Explain the meaning of 'IMF'. Search the internet for a full explanation.

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4. Search the internet for photos of marbling scores for Australian beef. Save it to a PDF and attach it to this document. Your teacher will help you with these tasks.

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5. Explain why Wagyu beef is more suited to the restaurant trade rather than the retail market. The answer is found in a previous worksheet

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6. Comment on this article. Consider the following:

a. As a producer, would you be convinced to use Wagyu?

b. Is this an unbiased article?

c. Is the quoted research reliable?

d. Awards are claimed to be based on taste rather than other carcass characteristics. Suggest a reason why.

8. Cattle Tick Resistance – Questions

Read the extract at: <http://www.publish.csiro.au/paper/AR9780395.htm>

It briefly describes the method and results of a study.

1. Define Stage I, Stage II and Stage III in the development in tick resistance.

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2. Re-write the method in point form and in your own language.

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3. Outline the results of this study in your own words

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4. Outline the conclusion in your own words

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November 2013 Newsletter

Foundation News

Primary Industries Partnerships in Schools (PIPS) Toolkit

The Primary Industries Partnerships in Schools (PIPS) toolkit has been developed by PIEF to build links between agribusiness and school classrooms to open up a wide range of career opportunities in Australia's primary industries. PIEF plans to progressively expand the toolkit. If you are a teacher or in agribusiness and have experience of school partnerships that you would like to share with PIPS, please contact us. PIPS is supported by the Australian Government Department of Agriculture and NAB. More information is available from: <http://www.primaryindustrieseducation.com.au/pips/index.html>



Primary Industries Partnerships in Schools (PIPS)

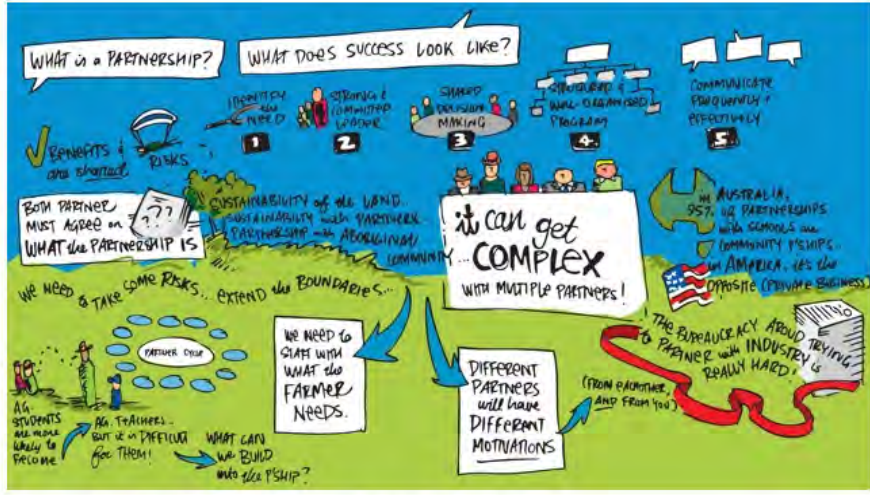
delivered by the Primary Industries Education Foundation



[PIPS home](#) [why partner?](#) [how to partner](#) [case studies](#)

Press or click on menu items to see the site's structure

About partnerships



What does the term partnership really mean?

"A collaboration between different sectors in which organizations work together in a transparent, equitable and mutually beneficial way towards a common goal and where those defined partners agree to commit resources and share the risks as well as the benefits associated with the partnership" (**the Partnering Initiative**).

Food on the Curriculum - Online Community

As part of the Department of Agriculture's 'Food in the Curriculum' project in conjunction with Agrifood Skills Australia, PIEF has launched a page on Education Services Australia's 'Scootle Community' entitled 'Food and Fibre: Supporting the Australian Curriculum'. Scootle Community has been developed in collaboration with Australian teachers to discuss implementation of the Australian Curriculum and to share professional advice, information and support. Through Scootle Community, teachers can also access digital lesson plans, curriculum resources and research.

Scootle Community (<https://community.scootle.edu.au/login>) can be used anywhere and at anytime using a desktop computer, smart phone or tablet. It was released in May 2013. Scootle is a 'one stop shop' that provides teachers with access to more than 20,000 digital curriculum resources in the National Digital Learning Resources Network which is managed by Education Services Australia (ESA). - <http://www.esa.edu.au/>



If you are an existing Scootle user follow this page today and contribute. If not, please get a Scootle account established at: <http://www.scootle.edu.au/ec/preregister.action>

For more information contact info@primaryindustrieseducation.com.au

Resources on PrimeZone

NEW! New Organic Schools Curriculum Available

Australian Organic Schools have released their new curriculum for students aged five to 12 which teaches them how to create, care and cook from an organic garden. All 32 lessons and digital resources are aligned with the Australian Curriculum with lesson links to sustainability, maths, science and literacy skills. For more information go to: <http://www.organicschools.com.au/teaching-resources/introduction/>

This Month's Stories

Industry News

Education and Engagement for Sustainability Vision, Agenda and Advisory process (NSW)

Stakeholder consultation is now open on the Draft Education and Engagement for Sustainability Vision, Agenda and Advisory process for NSW. The Office of Environment and Heritage (OEH) has funded the NSW Chapter of the Australian Association for Environmental Education (AAEE NSW) to develop a framework for NSW. This follows several years' partnership in a research project that has documented emerging trends in sustainability education. More information can be found at:

<http://www.aaeensw.org.au/content/draftframework&lang=en>

Ag Inspirations inspires the next generation

In October, Agforce Qld, Rural Skills Australia and Growcom, with support from the Lockyer Valley BEST (Bringing Employers & Schools Together) group, developed and ran a three-day Ag Inspirations program for three schools in the region.



Over the three days, the students visited eight industries and heard from a range of employees, business managers and owners. They got to experience the world of horticulture, hydroponics, the paddock to plate meat industry, research and development, agribusiness, and even disaster coordination in a regional food-production area. Students also learnt about the variety of employment pathways such as apprenticeships and traineeships, fulltime/part time/casual or seasonal work.



Students learned more about themselves and the sorts of careers that might fit with their current interests and personality type, as well as hearing about the career journeys of staff they met at each industry. At the end of the program, all students reported significantly increased awareness of the variety of jobs available within Agriculture that are not traditionally thought of, such as marketing, quality assurance and research. One aspect of the various industry visits which virtually all students commented on, was the amount of technology used in modern agriculture.



For more information about the Ag Inspirations program contact Alison Beaty, beatya@agforceqld.org.au or Terri Henry, TerriH@ruralskills.com.au Ag Inspirations was also supported by the Australian Government Regional Education, Skills and Jobs Planning Coordination Pool.

Project to grow new careers in agriculture for Sudanese students

Agribusiness Gippsland have launched a project introducing careers in agriculture to secondary school students of Sudanese background from Melbourne's south-east suburbs. The group will visit dairy and beef farms and a propagating nursery and it is hoped Gippsland farmers will give these young people a chance to enter agriculture. *This story has been shared from the Agribusiness Gippsland newsletter.* Find out more: <http://agribusinessgippsland.com.au/>

Agricultural degree now available via distance education

Students with a relevant diploma or advanced diploma are now able to enrol (with some course credits) in Charles Sturt University's (CSU) Bachelor of Agriculture or Agricultural Business Management which will be delivered via distance education. This is an initiative of CSU Wangaratta, which is a partnership between CSU, Goulburn Ovens TAFE (GOTAFE) and the National Centre for Dairy Education Australia (NCDEA). While study is via supported distance education, some face-to-face tutorials and field exercises are required, therefore it suits students located in regional Victoria. Find out more at: http://www.csu.edu.au/go/wang/?utm_source=wang&utm_medium=print&utm_campaign=wang

Marine WATERS Poster Giveaway

The Department of Fisheries in Western Australia is giving away copies of their popular posters to interested schools. Available posters include:

- Balancing Act
- Management for a Sustainable Future
- Who goes with the Flow?

Limited numbers of the posters featured on the [Marine WATERS website](http://marinewaters.fish.wa.gov.au/) are also available at: (<http://marinewaters.fish.wa.gov.au/>). If you would like a poster, please email marinewaters@fish.wa.gov.au with your preferred poster and your postal address. They will do their best to accommodate all requests.

Ausline Cattle Association LEAD Program

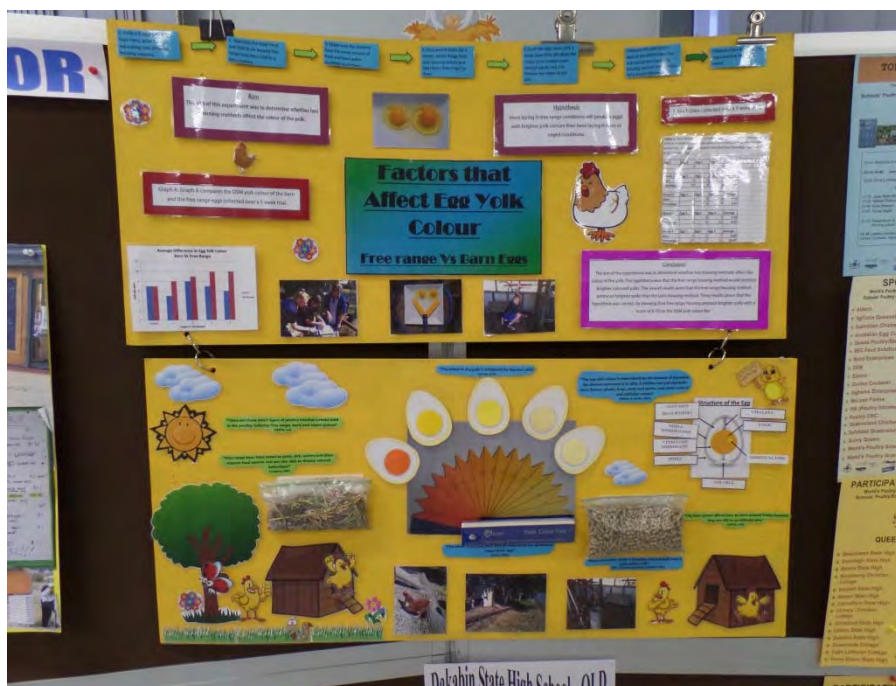
With funding from the Gambling Communities Fund, the Ausline Cattle Association ran a program called LEAD - Leaders Engaged in Agricultural Development. Its purpose was to encourage students, aged 13 to 21, who are passionate about careers in agriculture and give them the skills required for future success in rural and regional Queensland and in particular the Beef Industry. The format emphasised both practical and theoretical knowledge, covering topics such as leading cattle, public speaking and careers advice. More information and photos: <http://auslinecattle.com.au/index.html>



LEAD program participants learning how to do pregnancy tests

Cracking myths and hatching ideas

Seventy high school students from south-east Queensland recently joined with poultry industry representatives to celebrate the completion of the 14th annual World's Poultry Science Association Schools' Poultry Education Competition. A total of 45 schools from Queensland, New South Wales and South Australia undertook school-based poultry projects designed to crack a few urban myths about modern poultry production. For more information please contact Tanya Nagle, Competition Co-ordinator at poultrycomp@optusnet.com.au or 040 879 4496



Dakabin State High School's prize winning poster – Factors that affect yolk colour, Free Range vs Barn Eggs



VFF Food and Fibre Careers Officer

The Victorian Farmers Federation (VFF) with the support of the Victorian Government has recently employed a Food and Fibre careers officer, Heidi Knowles. A key focus of her role is fostering positive relationships with careers advisers in secondary schools. Assisting career action plans with a food and fibre flavour helps broaden the traditional thinking of what it means to have a career in Food and Fibre industries. Please Contact Heidi on 0458 010 386 for any further information

Share your news with us!

The quality and diversity of activities in primary industries education continues to be the most commented on aspect of our newsletter. Please share how you are encouraging young people to consider careers in primary industries by emailing a short article, including a photo if you like, to info@primaryindustrieseducation.com.au

Our deadline is around the 20th of each month.

School News

Shoalhaven High School wins the 2013 Archibull Prize

Showcasing the Australian dairy industry through art has won Shoalhaven High School the 2013 Archibull Prize. Their entry "Udderly Brilliant" tells a detailed story about the importance of natural resource management in the dairy industry as well as the increasing use of technology and mechanisation. Students designed the Archibull to open on one side where a material model of an actual sized ruminant digestive system can be pulled out. A record number of 37 schools from across 3 States entered the Archibull Prize this year. The Awards were handed out at the Sydney Showground by the Acting Director General of NSW DPI, Mr Michael Bullen and Sara Leonardi McGrath. See <http://www.art4agriculture.com.au/> for more information



Tasmania's Mulching Munchkins

The Mulching Munchkins program in Bridport and Ringarooma primary schools in Tasmania will develop a comprehensive theoretical and practical curriculum in which the links between food, agriculture, health and the environment are examined. Importantly the curriculum is being developed by the teachers to link with the Australian curriculum through history, maths, science and literacy. The learning is set against the back drop of the rural agricultural community in which the children live. PIEF have contributed to the cost of teacher relief for curriculum development. When the program content is reviewed and evaluated it will be available on the PIEF website.



NT News - Taminmin College Update

Delegates to the PIEF Conference in Canberra this year may have heard the presentation by Taminmin College's Agriculture Teacher and Farm Manager Matt Deveraux, on how to incorporate Agricultural VET in a school environment. The success of this integration can be seen by students from both Certificate II Rural Operations and Certificate III Agriculture competing successfully in the Darwin and Katherine Rural Shows, earlier this year. This is the second year Taminmin has been able to enter 10 of their own home grown Brahman Cattle for exhibition and won Champion Exhibit at both Darwin and Katherine Shows.



Taminmin College students parade their cattle



Taminmin College students' show success

Grants, Awards and Prizes

Agsafe Education Bursary Competition 2013

Agsafe and its programs Accreditation & Training, **drumMUSTER** and ChemClear will offer \$2500 to two people looking to further their careers in agronomy, agribusiness, farming, quality management, best practice and financial management or other related agricultural fields. The money can go towards either vocational or tertiary level studies. Entrants are required to fill out the online application form and submit a 500 word essay on how Agsafe and its programs benefit the farming industry and wider community. Applications close 20 December 2013. See <http://agsafe.com.au/bursary/> for details

RASF Community Futures Grant 2014 (NSW)

The RAS Foundation, through its Community Futures Grant, is giving young people (under the age of 35) who live in rural and regional NSW the chance to secure up to \$25,000 to deliver a new and innovative community project. For more information go to: <http://www.rasnsf.com.au/832.htm>

Conferences

NAAE Conference

12 - 16 January 2014, New Zealand

The National Association of Agricultural Educators (Australia) will be holding their National Conference in Telford, New Zealand next year. For application forms, see page 13 of this BAAT.

Catchments, Corridors and Coasts - A snapshot of Environmental Education in WA

15 - 17 January 2014, Western Australia

Participants in this program developed by the Australian Association of Environmental Education (WA) will learn about environmental issues, what is being done by community groups and various levels of government, what resources are available and how to work together for a better environment. It is a practical program, which focuses on learning through experience and skill development, while also reflecting the synergies between the environmental education practitioners in WA. See <http://www.aaeewa.org.au/> for details.

Something Missing?

If you would like to submit a news item please email info@primaryindustrieseducation.com.au



The Australian
Native Bee Company

Ensuring our future

Is sustainability important to you and your classroom teaching? Are you looking for prepared teaching resources that will interest your students?

Australian Native Bees for Schools

Enhancing sustainability, biodiversity, conservation and education in schools using native stingless bees

If so it is important for you to attend this course.

An exciting new course for teachers has been developed and will be being delivered in various locations throughout Queensland and New South Wales in Term 4 of 2013.

The course has been developed to educate teachers about incorporating Australian native bees into their daily teaching practice through curriculum based information in line with the national curriculum. During the course cross curriculum priorities such as Sustainability and Aboriginal and Torres Strait Islander histories and cultures are covered.

The bees used during the course are native **STINGLESS** bees so there are no problems with anaphylaxis.

The course duration is 5 hours and will run from 9am till 3pm. The sessions will include an introductory session, general information about native bees with a focus on social stingless bees, collaborative group work to enable teachers to best utilise resources provided within their own schools and a practical based session to discuss native bee husbandry.

This will count for 5 registered hours for new scheme teachers.

Venue

Check the website for venues at www.stevesnativebees.com.au

Course cost

\$250 – This includes morning tea and lunch, as well as a FREE copy of the educational resource booklet 'Australian native bees for schools'.

There are limited places in each session, so be quick to book your place.

“This was the best professional development activity I have attended and the relevance to the curriculum and my own teaching area was excellent. I love Steve's enthusiasm and the resources made available to me throughout the course. I can't wait to start teaching my own students about native bees.”

Alison McGeary, Evans River K – 12



The Australian Native Bee Company – NSW Institute of Teachers' endorsed provider of Institute Registered professional development for the maintenance of accreditation at Proficient Teacher/Professional Competence.

Scope of Endorsement

- Australian Professional Standards for Teachers at the level of Proficient Teacher - 1.2.2, 1.5.2, 2.1.2, 3.4.2, 6.3.2, 7.4.2, for the course Australian Native Bees for Schools (Enhancing sustainability, biodiversity, conservation and education in schools using native stingless bees).
- NSW Professional Teaching Standards at Professional Competence - 1.2.1, 2.2.3, 3.2.4, 6.2.6, 7.2.4 for the course Australian Native Bees for Schools (Enhancing sustainability, biodiversity, conservation and education in schools using native stingless bees).

For further information or to book your spot in a session contact Steve Maginnity:

Phone: 0404831659 • Email: tanbc@hotmail.com.au • Website: stevesnativebees.com.au

University of New England



Looking for a hands on degree?

How about UNE's new Bachelor of Agrifood Systems?

If you are interested in a career in agriculture and want to manage sustainable food and fibre production, UNE's new Bachelor of Agrifood Systems degree will get you where you want to be fast!

This three year degree combines vocational training in farm management with UNE units to produce 'hands on' graduates who can apply the latest in agricultural science and technology.

School leavers can enrol in the two year Associate Degree which will give automatic entry to the Bachelor of Agrifood Systems for the third year.

You will graduate with

- a combination of the technical and leadership skills you need to adopt the latest technology
- the capability to improve the productivity, profitability and ecological sustainability of farm systems.



It's time to jump the ditch for some Kiwi fruit

Bachelor of Agrifood Systems

Entry Requirements

Study Mode	On Campus/Distance
Duration	Full Time: 3 years Part Time: 6 years
Entry Requirement: Academic	You must meet one of these three criteria: 1) Hold the Higher School Certificate with the minimum ATAR (72.55) for UNE entry OR 2) Hold a VET Certificate IV or higher qualification in any field OR 3) Achieve the required minimum skills profile against the Australian Core Skills Framework;
Additional Entry Requirement: Industry Experience	You must meet one of these three criteria: 1) Hold a VET Certificate III or higher qualification in Agriculture OR 2) Be able to document at least one year of relevant industry experience in agricultural production OR 3) Have completed the NSW HSC Primary Industries Curriculum Frameworks Course, (240 hours) or Year 12 Agriculture in the HSC* PLUS Completion of a school based traineeship OR documenting at least 24 weeks of additional relevant work experience in agricultural production. (*or equivalent study in other states)

You can study full time or earn while you learn part time. All units are available online with intensive schools, or you can study on campus at UNE.

You can specialise in any of these four Majors:

• Crop Production • Livestock Production • Production Horticulture • Poultry Production

To help your study at UNE we suggest you include maths, chemistry and biology in your HSC subject choice. The Bachelor of Agrifood Systems has been developed in consultation with agriculture employers to give you the skills and knowledge that you need for a successful future.

Agriculture is a high tech industry with a great future. You could find yourself working anywhere in Australia or anywhere in the world.

Combine study of practical farm management with the latest technology to build your career in agriculture.

**For more information go to: www.une.edu.au/agrifoods
1800 818 865**

Funding for this project was made available by the Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE).



The Murray–Darling Basin Authority's Basin Champions Program, 2014

After a successful pilot program in 2013, the Murray–Darling Basin Authority (MDBA) is pleased to invite schools from across the Basin to participate in the Basin Champions program in 2014!

The program will run twice in 2014, targeting primary schools in term 2, and secondary schools in term 3.

About the program

What:

River health investigations & videoconferencing with the MDBA.

The Basin Champions program combines videoconferencing activities with an in-class investigation in which students look at the health of a river or creek near their school.

The goal of the program is to get students to learn about human impacts on the natural environment and to help them consider issues of connectivity and interdependence within the Murray–Darling Basin river system.

When:

- Primary schools: Term 2, 2014
- Secondary schools: Term 3, 2014.

Who:

The primary schools program is targeted at students in years 4, 5 and 6. The secondary schools program is targeted at students in years 7, 8 and 9. School groups will link up via videoconference with MDBA educators and mentors.

How:

If you would like your class to participate in the 2014 Basin Champions program, please contact the education@MDBA team (see below).

How much:

Participation in the Basin Champions program is free, although schools will need to cover any local costs associated with their investigations (such as transport).

Who to contact:

To express your interest or find out more, email the education@MDBA team:
education@mdba.gov.au or call 02 6279 0500



For more information on the Basin Champions Program and to subscribe to MDBA Education Update service, go to <http://www.mdba.gov.au/what-we-do/education/teachers>

National Merino Challenge

The National Merino Challenge (NMC) is a two-day, national breeding competition which will improve the engagement of young people with the Merino industry by developing their knowledge, skills and networks.

The NMC is an AWI initiative designed to allow young people to engage with the Merino industry by developing their knowledge, skills and networks, and involves presentations and demonstrations from industry professionals. Students participate in seven 'mini-challenges' over two days, testing their knowledge of Merino fleece, production, breeding and selection.

Techniques from several well-known industry initiatives, such as MerinoSelect, Lifetime Ewe Management, Bredwell Fedwell and Visual Sheep Scores, are used throughout the NMC, giving students a realistic and practical insight into the tools available to growers to make more informed decisions.

The Challenge has two sections – late secondary and tertiary – and is open to years 11 and 12 and tertiary students, Australia-wide. The tertiary sector includes undergraduate university students and those studying through TAFE or another RTO.

A key part of the Challenge is the annual, two-day Train-the-Trainer (TtT) Workshop, which ensures trainers are kept up-to-date with breeding and selection skills and industry knowledge so they can transfer this knowledge to their students. The NMC provides teachers with materials to prepare their students for the Challenge, as well as providing the students with materials they can use to get ready for the NMC.

Students can choose to do as much or as little work in the lead up to the NMC as they like. Materials are provided to all participants and their teachers to create a more even playing field. The 2013 event saw teams from schools, colleges, universities and TAFEs across Australia meet in Dubbo, NSW for the inaugural NMC.

NMC 2014 will be held at Melbourne Showgrounds on Saturday, 24 and Sunday, 25 May 2014. Students are required to attend the two-day workshop, which incorporates an industry dinner on Saturday, 24 May to allow them to meet key industry figures.

For more information, please contact:

Ben Watts
NMC Project Manager
0428 668 706
ben@bralca.com

Emily King
AWI Technical Project Officer, On Farm
02 8295 3176
emily.king@wool.com

To download a registration form go to: <http://www.awinmc.com.au/>



It's time to jump the ditch for some Kiwi fruit

MEDIA RELEASE

Wednesday 13 November, 2013

SECURE UP TO \$25,000 TO HELP YOUR LOCAL COMMUNITY
2014 RAS Foundation Community Futures Grant now open

The Royal Agricultural Society of NSW (RAS) Foundation is giving young people who live in rural and regional NSW the chance to secure up to \$25,000 to deliver a new and innovative community project.

Now in its sixth year, the RAS Foundation Community Futures Grant has gifted \$250,000 to community projects across NSW including the rebuilding of the community owned Rock Valley Post Office, renovation of a church hall and kitchen in Narrandera and development of an indigenous art gallery in Delegate.

In 2014, the RAS Foundation will be accepting applications for smaller projects, for example; the upgrading of a roof of a small community hall that would be utilised by multiple community groups, as well as projects that require up to \$25,000.

RAS Foundation Executive Officer, Jocellin Jansson is encouraging young people living in rural and regional NSW to think about how they could make a significant difference to their community.

"Each year I am inspired by the generosity and spirit that exists within rural and regional communities. With so many innovative and community-minded young people in NSW I'm sure we will see some excellent ideas," Ms Jansson said.

Lisa Dooner, a committee member of the Rock Valley Hall, was a recipient of the Community Futures Grant in 2013. Lisa and the committee used the grant to rebuild the community-owned Rock Valley Post Office which was destroyed by fire in September 2012. The rebuilding process started in May, with the new post office officially opened in July 2013.

"Our community rallied together and worked tirelessly to try and raise enough funds to rebuild our post office," Ms Dooner said. "Community sausage sizzles and raffles helped, but the Community Futures Grant provided us with the extra funds we needed to make the rebuild a reality."

Applications for the Community Futures Grant will be judged on several criteria including innovation, impact on the community and plans for implementation. They must identify an existing community organisation or group to partner with to deliver their project. Eligible entrants must be 35 years or under on 1 May, 2014 and projects must be located in rural or regional NSW.

Applications close 13 January, 2014.

Interested applicants can visit www.rasnsf.com.au/programs to find out more and to complete the online application form.

The charitable arm of the RAS, the RAS Foundation helps to build strong, vibrant rural and regional communities through education and skills development. It provides a range of grants and scholarships to help rural and regional Australians realise their potential through education, make a difference in their community and achieve their ambitions.

Media information, interview and high-res image requests:
Amy Wadwell, Communications & Public Relations Executive
P (02) 9704 1239 E awadwell@rasnsf.com.au

Forging the future of Australian agriculture through competition and education

Schools in the News

Gulargambone Central School



Successful application for a Trade Training Centre saw a whole new building for the Primary Industries facilities. The building includes:

- Raised Shearing Board
- Middle section dedicated to benches for horticulture, demonstrations and students working independently.
- A machinery section designed for tractor and implement storage as well as all the tools owned by the Agriculture Department.
- Outside sinks, sourced from the original cement



Horticulture and raised shearing board



Team tractor servicing

It's time to jump the ditch for some Kiwi fruit

Gulargambone Central School has the ability to offer Agriculture as part of its Technology Mandatory to all of Stage 4. The Stage 4 group of students is very privileged to have a Community Volunteer, Greg O'Brien spend 1 morning a week with the class. Greg is a retired farmer of the district who has retired into town and saw the need for his skills and knowledge to be passed onto the next generation. This type of help is invaluable in a small community, which is predominately farming.

In addition, with the facilities available at our school and the support of the community, Primary Industries is able to run effectively and the students are achieving well and meeting their own goals and expectations.



The shade house come hot house project that the Primary Industries class has been working on.



Stage 4 students with Greg O'Brien, checking out their potato crop.

Practicing their rope tying skills



I grew up in Tamworth and had a fantastic Agriculture Teacher in the capacity of Laurie Raper at Peel High School. This is where my goal to be an Agriculture teacher was inspired. I completed a Bachelor of Agriculture at UNE and a Diploma of Education to top it off. With the Ag. Degree separate just in case teaching wasn't what I would think it would be.

I have been at Gulargambone Central School since 2009. In that time I have seen a slight increase in numbers, but hear proud community talk as to how large the school use to be.

I am quite lucky to have fantastic community support, with the donation of sheep and steers as we request them and have the interest from the students.

As well as the interest from the local shearing contractors to be able to come and show the kids how to shear and allow them to be the rouseabout. In addition, to come into our school to dip the sheep, as needed.

Future projects that I would like to embrace for next year is the incorporation of chooks back into the school, to be able to access from Kindergarten to the Primary Industries class. With this the inclusion of an incubator, as I also teach the Primary Science and we are up to life cycles and all that fun stuff that can be taught with the chicken or the egg, whatever came first.

I would like to continue to build on the community partnerships that I already have. With the possibility of running a series of short TAFE courses out of our newly built Primary Industries Shed to increase Rural Skills and the ability for our school to remain functioning and a hub of learning. An issue we have located is the need for our students to gain their licence and then to be able to have access to a registered car and a licensed driver who is able to teach the learner. This is a continual rural issue in all small community towns.

Whilst loving the continual film of dust located in my car, the road that can be unpredictable when it gets wet. I have really fallen in love with the flat space, dust, weather and the galah's that play suicide cricket on the road.

So whilst I have been here for a few years now, out west, where do you transfer to when you are able to go anywhere. I have very much fallen into a comfortable routine of small community towns and the spirit that lays.

So I will be going on maternity leave March next year, just to add more thinking time. Have a fantastic summer break and I hope we get some much needed rain, for everywhere would be ideal.

Katie Rowe

Shoalhaven High School

Shoalhaven High School (Nowra NSW) recently participated in the Art4Agriculture - Archibull Competition. We had wonderful success and would like to thank all other participants in the program and the Organiser Lyn Strong.

I would also like to congratulate Trangie Central for their fantastic entry 'John Bull'. All entries can be viewed on the Art4Agriculture website (<http://www.art4agriculture.com.au/>) or through their Face Book timeline (www.facebook.com/Art4Agriculture). You can also visit our Blog "Shoalhaven High School Archibull 2013" to follow how we developed our winning entry at <http://shoalhavenhigharchibull2013.blogspot.com.au/>

Maree McNeil

Archibull - Feedback from the judges

On behalf of Art4agriculture I would like to congratulate your school and your students on being a finalist in the 2013 Archibull Prize. The workload is extensive and in recognition of the considerable efforts of you and your students we are providing the following feedback from the judges.

Artwork

Udderly Brilliant is utterly brilliant!

The detailed story she tells about the Dairy industry is thorough and informative. Particularly interesting is her focus on the importance of natural resource management and the increasing use of technology and mechanisation in the industry. It is not simply a pictorial overview of the industry as a whole.



This focus in the story she is telling led to the concept (or maybe vice versa.) She appears partly mechanised - a cow of the future? The detailing of this concept is beautiful. but it is her side which opens up that is her best feature.

Anyone who sees it will definitely remember it. The hot pink, tactile digestive system that can be pulled out is unforgettable - a clever interactive element which teaches as you play. It is wrong and yet so right. You can't resist playing with it as it is brilliantly designed.

The styling and the painting techniques used to tell her story are simple and beautiful. They complement the design very well and serve to draw the viewer in. Udderly Brilliant is visually appealing because of them. There is a high level of consistency and competency across the entire design.

While it is her fabulous insides that totally captivate, she would not work well as a whole without her beautiful story and artwork. A sophisticated, informative and fun idea- Well done!

Blog

The judge has provide very thorough feedback on each criteria for the blog
I will send you an email with this information later in the week

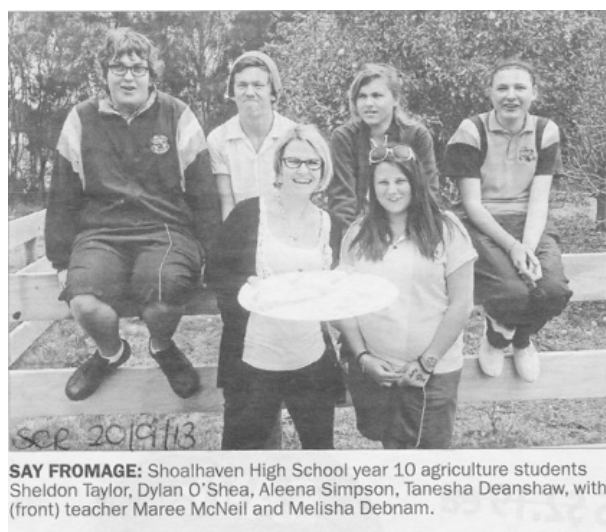
Video

Information about the Dairy industry is presented in a highly creative and engaging manner. You skilfully share how your involvement in the Archibull project helped to inspire your entry from the design to the final creation and you communicate your concepts and ideas in a highly effective manner. Well done!

Total Marks 94/100

Place overall 1st

Very well done - it just goes to show public schools can compete with the best.



SAY FROMAGE: Shoalhaven High School year 10 agriculture students Sheldon Taylor, Dylan O'Shea, Aleena Simpson, Tanesha Deanshaw, with (front) teacher Maree McNeil and Melisha Debnam.

Pupils learn how to make cheese

STUDENTS from Shoalhaven High School's year 10 agriculture class have been rewarded for being cheesy.

Teams from the class took part in Camembert in the Classroom and won silver for their camembert cheese.

The project is designed to encourage secondary school teachers to examine the Australian Dairy Industry and its products.

The framework involves training teachers to make camembert cheese and pass this knowledge on to students.

Student teams made the cheese and design a multimedia advertisement addressing 'Why Dairy is an Important Part of Our Diet.'

The teams from Shoalhaven High included the Orange Royals, Sheldon Taylor and Dylan O'Shea, the Royal Georgie Green Machine, Hannah Wilson, Maddison Wellington and Tony Herlihy, the Yellow Mellow Cheese Makers, Tanesha Deanshaw, Melisha Debnam and Aleena Simpson and the Queen Bean Red Team, Emma Lee Dixon and Kalinda Wills, led by teachers Maree McNeil and Maree Hampstead.

The four teams had their camembert cheeses judged for flavour and aroma, texture and body and presentation.

Deputy chief judge of the Australian Grand Dairy Awards Russell Smith along with accredited judges awarded the winning cheeses of the region at a presentation day earlier in September.

Agriculture teacher Maree McNeil said the teams made six cheeses in total for the competition.

"It took a whole day to make a cheese," she said.

"Then it was matured for six weeks and judged.

"It's all about turning raw ingredients into a marketable product."

Ms McNeil said it was also important for teaching students about the role of the dairy industry.

"From an agricultural perspective the dairy industry plays a vital role," she said.

"Not just in our region but for the profitability of the whole country."

"We need to support it and know how important it is."

She said supporting the local dairy industry was helpful for environmental reasons as well as economic ones.

"It would be nice if we could cut down on the travelling (a product does),"



The winner of the Champion Archibull Program A and the
Grand Champion Archibull Prize for 2013 is

Shoalhaven High School

CONGRATULATIONS



Farrer Memorial Agricultural High School

Steer Team Success

The 2013 steer show team started strong with a lot of interest from junior students as well as the usual crew. We selected 14 steers and 4 heifers and embarked on a journey of early mornings and late afternoons, breaking in and preparing the animals for show. Overall 13 beasts were entered into hoof/hook competitions located around the local region.

Our success would not have been possible without the cooperation of the farm staff, Ag staff, and the students who put a lot of time and effort into handling the cattle and a huge thanks goes out to all involved.

The prize money has been used to buy some new halters and show gear, along with the construction of a storage cage down on the farm to secure all the show gear.

Our results are as follows.

Singleton Prime Stock Competition

Champion Led (School) Steer (Hoof)
Champion Led Only Steer (Hoof)
Reserve Champion Led Only Steer (Hoof)
Most Successful Exhibitor-(Hoof)
Supreme Champion (Hoof)



Scone Beef Bonanza

Champion Middle Heavyweight (Hook)
Reserve Champion Middleweight (Hook)
Best Limousin/Limousin Cross Carcase



Northern Schools Prime Stock Competition

Champion Lightweight Steer (Hoof)
Reserve Champion Lightweight Steer (Hoof)
Champion Middleweight Steer (Hoof)
Reserve Champion Heavyweight Steer (Hoof)
Supreme Champion (Hoof)



Laura Tolley
Steer Team Coordinator

Forbes High School

Showing Success for Show Team

This year has seen the inclusion of a Show Team as a Sport option at FHS. Students have represented and participated in several shows including The Schools Wether Competition at Dubbo, Dairy cattle at Forbes Show, Poll Dorset Judging at Orange Field Days and preparation of two steers for the Royal Canberra Show in February in 2014. We are extremely proud of our Show Team students.

Dubbo Wether Competition

In August, 15 students from years 8-12 competed in the School Merino Wether Challenge with three teams of wethers. The quality this year was outstanding and unfortunately we missed out on top placing's due to our wethers cutting their teeth, with only four teams out of fifteen still having milk teeth.

Congratulations to Heather Earney winning the Handler section and coming second in the Fleece and Sheep Judging at the Dubbo Merino Show. A big thankyou to Tom and Kate Kirk "Bundemar Stud", Condobolin for supplying us with two teams of wethers and Ken and Kim Noakes "Karowara Plains Poll Merino Stud", Bedgerebong for donating a team of wethers to school.



Forbes High Show team (L-R Joshua Goodall, Mitchell Jack, Ryan Taylor, Tim Dukes, Galen Ryan, Erin Turner) with the wethers and producer Tom Kirk "Bundemar Stud" Condobolin.



Ken Noakes "Karowara Plains Poll Merino Stud" Bedgerebong with Forbes High School Students Jessica Buckman, Sally Downie and Heather Earney and the team of donated wethers.

Forbes Show - Dairy Cattle

Forbes Show saw students washing cows and hanging out in rubber boots pre-show. Local Dairy breeders commended our students on their conduct, professionalism and enthusiasm with assisting them in the preparation of their cattle. The Show team students were entered in the best presented and paraded heifer classes, with many of our students receiving places and prize money. I would like to thank the breeders for allowing our students to have access to their stud cattle.



Students lined up in the Over 16 year class for best presented heifer.



Emma Jones, Holly Campbell and Nathan Molloy with their entries.



Under 15 over 12 years class, best presented and paraded heifer.



Dylan McIntosh with Paschendale Real Blossom, leading out of the ring in first place.



Sally Downie with her entry in the Over 12 month old class

Orange Field Days – Poll Dorset Judging

On Thursday 24th October, eight students from the Forbes High School Show Team competed in the Poll Dorset Judging at Orange Field Days. The judging was conducted over two rounds; a visual appraisal of the ewes and an oral presentation. Both Erin Turner and Dylan McIntosh made it through to the oral presentation round of the judging. We are very proud of all our students who participated as this was their first attempt at Meat Sheep Judging. With congratulations to Erin Turner for getting Runner-Up in the overall judging.



Erin Turner being presented with the runner up in the Poll Dorset judging.



Dylan McIntosh presenting his oral reasoning for his ewe prize placement to the judge.

Congratulations Heather Earney

Heather has just received one of two Australian Wool Education Trust/Wool Industry Undergraduate Scholarships offered nationally to attend the University of New England to study Agriculture.

Heather was selected from a high quality field of applicants. Her selection follows a committed and diligent High School career where she completed HSC Agriculture while still in year 11 followed by a regular HSC consisting of mostly Science/Maths and Agriculture subjects.

Her dedication to Agriculture has seen her as a member of the school Show Team for both cattle and sheep and attending agricultural shows for judging.

Heather is an inspiration to other students wanting to develop their Agricultural prowess. We wish Heather success in her future as she embarks on the next chapter of her life.

Rachel Eagles (CEO Show Team)

Show Team has Canberra Royal in Sight

In February 2014 the show team will travel to The Canberra Royal Show to compete in the Hoof & Hook School section and the Paraders Competition. Our students have been very busy with the preparation, breaking in, washing, weighing and nutritional needs of our two steers Richard and Rodney. We are looking forward to this competition as it is the first time the school has entered in a Hoof & Hook competition in a long time. Thankyou to Heather & Richard Cole and Amba Van Der Struik the breeders of the steers.



Sally Downie and Jessica (Jeff) Buckman parading Richard.

Profile:	Richard
Breed:	Black Limousin
Breeder:	Richard & Heather Cole
Current Weight:	286kg
Likes:	Scratches and his food

Profile:	Rodney
Breed:	Murray Grey
Breeder:	Amba & Rodney Van Der Struik
Current Weight:	462kg
Likes:	Bath time and trying to eat Richard's feed.



Erin Turner and camera shy Emma Jones taking Rodney for a stroll.

Denison College of Secondary Education - Kelso High School

It has been a big year for developments and changes in Agriculture.

VET Primary Industries has been delivered to a class of 18 students in Year 11 for the first time ever this year at Kelso High. The course having a large practical requirement has led to the many new learning facilities on the Ag Plot, such as:

- Fox-proof fenced free-range duck yard where the students achieved the Fencing competency.
- Introduction of 3 merino wethers and construction of sheep yards where the students developed skills of sheep handling and husbandry. Our recent addition has been 2 pregnant Suffolk ewes which the students are eagerly await the new arrivals.
- Establishment of pasture and forage oat paddocks for feeding the sheep where the students developed skills of Tractor and Machinery Operations.

The vegetable gardens were re-located to the sunny end of the Ag Plot by the students. This was done in the Ag classes and involved the moving of logs and soil, then the design and construction of the new gardens. The new site has ready access to the Plant Propagation room, tools and the hot house.

The two **Year 10 Agriculture** classes this year have been propagating roses, African violets and various other shrubs, learning to operate the tractor, grown winter crops and learning about Aquaponics.

The two **Year 9 Agriculture** classes have grown vegetables filling the Hot House, handled the sheep, pruned fruit trees, worked with the chickens and ducks and are growing summer crops of corn, potatoes, cotton and rice.

Year 9 Ag were involved in a **Chicken Competition** with the Worlds Poultry Science Association based in Queensland. They fed different diets to groups of chickens to see the effect on egg production and then presented their finding in a Report and Poster. The judges were very impressed with their work and they achieved third place in the NSW.

The **Year 8 Technology Agriculture** classes have completed a unit called “Home Grown” where they have learnt to grow vegetables in small areas and raise chickens for eggs for a home backyard setting.

Agriculture during Sport has become very popular as the students learn to grow vegetables and other plants, handle the sheep and chickens and ducks. They have enjoyed hatching and raising a variety of chicken breeds and ducklings and their latest project Guinea Pigs!

Susan Behan

Agriculture and Primary Industries Teacher



Clockwise from above: Fox-proof duck yard, Sheep grazing a new pasture paddock, New location for vegie gardens, Chicken Competition, Year 10 Ag classes winter crops flowering, Duckling hatched during Sport, FULL Hot House



It's time to jump the ditch for some Kiwi fruit

Bonza Beef Bonanza for Calrossy Anglican School



The recent Upper Hunter Valley Beef Bonanza saw students from Calrossy Anglican School achieve some wonderful results against some fairly stiff competition. The school was easily the most successful - for the second year in a row – which is not bad considering there were over 600 competitors and over 300 steers! It was a wonderful event and the students thoroughly enjoyed mixing with the other competitors and the experience of participating in the various competitions.

One hundred and forty students selected from schools around the state competed in the *National Inter-Schools Meat Judging Competition*, with Calrossy students Alice B, Wyatt Y and Natalie A teaming up to be named *Overall Champion Team and Winning Team of Carcase and Retail ID*. Alice followed this up by being crowned *Overall Individual Champion and Winner of the Carcase Class* along with Anne Johnston being awarded *Overall Runner Up and Winner of Retail Identification Class*.



The results in the Judging Competition were just the beginning with Calrossy students also being named champions and winning a variety of other awards in the Led and Unled Steer Sections, Stud Heifer Section, Paraders Competition and the Junior Judging Competition. A Charolais Cross steer prepared and exhibited by Sophie C and Analiese C was declared *Champion Carcase and Jackpot Winner*. Claudia N prepared

and exhibited a Charolais Cross heifer bred by Mrs Margaret Rose which gained *Reserve Champion Led Heavy Middleweight*. Katie D and Piper S prepared and exhibited a Limousin Cross heifer and were awarded *Reserve Champion Led Light Middleweight*. *Light Middleweight Champion Carcase* was awarded to Amelia R's bred and owned Limousin steer. Congratulations must also go to Georgie S who prepared and paraded her bred and owned Simmental Cross steer and was awarded *Highly Commended in the Heavy Weight Class*. Finally in this section, every Calrossy led animal placed. In the Unled Steer Section a Charolais Cross heifer bred by Mr David Rose and prepared by the Calrossy Cattle Team achieved *Champion Middleweight Carcase*.

Calrossy's Kamilaroi Shorthorn Stud also entered some beasts in the Stud Heifer Section and Kamilaroi Hana, prepared and paraded by Zoe M was announced *Champion*, and Kamilaroi Miss PC, prepared and paraded by Lane E was *Reserve Champion*. Calrossy Cattle Team member Samantha D had recently been injured in a horse accident and so was unable to parade her Shorthorn Heifers. Other members of the team did a sterling job on her behalf with both heifers placing in the Stud Heifer Competition.



The Paraders Competition is run in age divisions and Calrossy has students in each of the secondary school age groups. In the 12 -13 years group all Calrossy students made it through to the final after competing against approximately 100 others. Jacinta C, Phoebe B, Sarah S and Piper S represented the school with Jacinta *Winning this Age Division*, and Phoebe placing 5th. Emily-Jo C made the finals in the 14 years division and Katie D won the 15 years. In the 16-17 years division Calrossy students took out *the first four places!* Claudia N was *First* and then second to fourth places respectively were Amelia R, Lane E and Katrina S. 15 year old Katie D was also named *Overall Champion*.

Junior Judging was another stunning success for Calrossy students with Claudia N named *Champion and Winning the TOCAL Judging School Scholarship 2013*. Amelia R was named *Reserve Champion*.

Finally, and in recognition of the whole team's success, Mrs Bronwyn Nielsen was named *Champion School Coach*. Wonderful acknowledgement and recognition of the tremendous amount of time and effort Bronwyn puts in to the Cattle Team and in guiding and instructing the students.



This was a fantastic competition for Calrossy Anglican School who have set the bar very high – not only for other schools but for themselves as well if they plan on achieving similar success in the years to come.

National Interschool Meat Judging Competition at Scone a Great Beef Industry Experience for Calrossy Students.

The National Inter-school Meat Judging Competition held in conjunction with the Upper Hunter Beef Bonanza continued to increase in popularity this year with 140 enthusiastic students representing 25 high schools.



Judging 2 carcass classes, 1 shortloin primal class, identification of beef primals as well as retail lamb and beef cuts, their skills in assessment and observation of meat attributes was put to the test at Hunter Valley Quality Meats on Friday 25th October.

This event becomes more popular each year with schools most appreciative of the opportunity to enter a processing plant and compete amongst other young people trained in meat assessment using resources from the ICMJ website, local butchers and abattoirs. The school competition aims to enhance their understanding of meat processing and assessment. Many schools involved use this training as part of their HSC Agriculture Product Study Course also.

Calrossy Anglican School from Tamworth, dominated the awards winning the team award for each judging category as well as winning Overall Champion team with runner up team from St Josephs High School Aberdeen and 3rd place taken out by Coonabarabran High School. The individual champion was from Alice Bowler from Calrossy Anglican School with 2nd place in the individual awarded to Anne Johnston, Calrossy Anglican School and 3rd place going to Kim Jones, Quirindi High.

Coach of the winning team Mrs Bronwyn Nielsen had provided a 2 week training course for her Year 11 Agriculture students. This was accompanied by visits to local Tamworth butchers, Capital Country Meats and Kays Meats as well as the Teys Australia abattoir.

“It is hoped this training will help students better understand aspects of meat as a product and assist them in their Agriculture studies over the next twelve months”, said Mrs Nielsen. Mrs Nielsen also assisted in organising the meat judging event in Scone and said, “It was so pleasing to see students behaving so professionally and respectfully in what was such a foreign environment to most”.

Both the Upper Hunter Beef Bonanza and the Australian ICMJ Association are greatly appreciative of the opportunity provided by Hunter Valley Quality Meats, Scone for making this valuable learning experience available to NSW Agriculture students.



Calrossy Winning Team Yr 11 Ag Students:

Natalie Aquilina, Alice Bowler (also Individual Champion), Wyatt Young and Individual Runner Up Anne Johnston

Media Release

Friday 18th October 2013



CALVES HELP STUDENTS LEARN ABOUT DAIRY CAREERS

For nine years, Dairy Australia has successfully worked with thousands of young Australian students, teachers, farmers, industry advocates and communities through its investment into a unique national program called Cows Create Careers – Farm Module involving over 180 schools each year.

Locally, DairyNSW, IMB Community Foundation have continued to fund the support of the program in the South Coast, Central and Far Coast NSW regions and Murray Goulburn and Provico provide the calf meal and milk powder for program.

Dairy Australia's Program Manager – Industry Capability, Tracy Lloyd said the program was initiated by dairy farmers in the Strzelecki Lions Club in Victoria with a handful of Gippsland schools back in 2004.

"What was needed was a program that could grab young people's attention at many learning levels and somehow showcase the profile and diversity of careers in the dairy industry," said Ms Lloyd.

"We found bringing calves into schools is a great way to engage students - they simply have great fun studying and love physically interacting with them."

Cows Create Careers is designed to demonstrate the relationships between key learning areas in school, educational and vocational pathways, and real life professional, competitively paid dairy careers.

It runs as a six week project in each participating school, and provides two sets of curriculum material for junior years 7 and 8 and senior years 9 to 11.

There are twenty-five schools in the South Coast, Central and Far Coast NSW Regions including Eden Marine High School, Moruya High School, Narooma High School, Picton High School, Elizabeth MacArthur High School, Lake Illawarra High School, Oak Flats High School, Corrimall High School, St John's Nowra, Menai High School, Shoalhaven High School, Moss Vale High School, Albion Park High School, Bossley Park High School, Illawarra Christian School, Nowra High School, Plumpton High School, All Saints College, University of Canberra High School, Kaleen, Orange High School, Lyneham High School, Canowindra High School, Alfred Deakin High School, Blayney High School and Red Bend Catholic College.

Each year the program's material is revised to ensure that it complements national and state curriculum standards, and incorporates student, teacher and industry feedback to keep it fresh and relevant. For example, dairy work experience through the *Farm Module*; as well as the *Manufacturing Module*, the *Camembert in the Classroom Module*, and film making components such as the *Moo'in Transfer* and *MooTube Moovies*.

The program has gained huge support from dairy farmers and industry advocates across Australia, and last year alone they volunteered 1,162 hours of their time to 7,284 students across 22 Australian dairying regions.

"They have a deep knowledge of the industry, and play a vital role in encouraging and supporting student career decision making through links with both education and employment sectors," said Ms Lloyd.

The project finales will be held on Wednesday 23rd October at City Beach Function Centre, Wollongong, Thursday 24th October at Cowra RSL and Friday 25th October at Narooma Golf Club where prizes will be awarded to the winning schools and students.

For more information, visit www.dairyaustralia.com.au/education-and-careers/secondary-school-resources or please contact John Hutchison or Deanne Kennedy on 0412 368 739 (J) or 0419 878 055 (D) or email admin@jaydee.net.au

SOUTH COAST, CENTRAL AND FAR COAST NSW REGION PRIZES

JUNIOR SECTION

First Prize

Elizabeth MacArthur High School

Dairylicious

Jacinta Dawson
Jemma Powell
Maggie Dorrington
Brandon Curtis
Jake Perry

Second Prize

Moss Vale High School

Cow Bellas

Erin Olesen
Jacinta Burns
Megan Mulcahy
Rebecca Heyhorn
Izabella Fletcher

AND

Menai High School

The Cow Girls

Jessica Day
Shauna Amber-Lee Smith
Taylor Kingham
Yasmine Polemitis
Indiana Darwin

AND

Menai High School

Dairy Divas

Emma Stephens-Hodder
Breanna Muddle
Madison Blackburn

AND

Lyneham High School

Team Moo Moo 1

Ashleigh Dodds
Grace Kim
Alicia Gaplinski

Third Prize

Lyneham High School

Amy & Cindy

Amy Shipway
Cindy Wang

Winning Junior School

Lyneham High School

SENIOR SECTION

First Prize

Menai High School

Cowpuccino

Jazmin Everitt
Emiily Cheung
Guesh Jantui
Kristy Martin

Second Prize

All Saints College

Milk Munchkins

Neive Roebuck
Lil McClelland
Izzy Card
Jacque Terry
Laura Van Vum
Melissa Whitfeld

Third Prize

St John's, Nowra

Milk Bottles

Elizabeth Richardson-Thornton
Kira Brown
Lucy Boyd
Amy Flamminio

Winning Senior School

Menai High School

WANTED!

Trial Schools

Get Involved in Trialling New Food Production Educational Resources

Would you like to join with other schools and engage students in finding out about how food is produced in the Australian Pork Industry?

Students of today will be the decision-makers of the future and it is vitally important that we empower them to learn about their food futures, the environment in which food is grown and produced, and ways food is processed and prepared for eating.

Australian Pork Limited and Angela Colliver Consulting Services are seeking schools across Australia in junior primary, primary and junior secondary classes to review and trial educational resources aligned to the Australian Curriculum in Technologies, Science and Geography. Each unit uses an inquiry-approach to learning and 21st century learning methodologies.

Timeframes:

- Register interest by mid January 2014
- Trial unit and collect photographs documenting the class journey in Term 1, 2014.

Schools involved will be given teaching resources electronically with all of the tools and assistance needed to maintain a term-long teaching unit (8-10 weeks).

Trial schools would be asked to:

- implement the educational resource with an appropriate class at the school
- participate in an evaluation of the educational resource
- request schools annotate the e-copy with comments for where writer might change/adapt learning sequence, and
- collect student work samples and any photographs of students involved in the resources activities. The ideas and class experiences will be taken in to account when rewriting the educational units.

It would be very much appreciated if you could make copies of this information sheet and distribute it to potential schools.

For any further information please contact:

Angela Colliver, ACCS Pty Ltd

Phone: + 61 2 6238 3760 or 0407 377 923

Email: accspty@gmail.com



Overview of Unit and Curriculum Links

Junior Secondary

Title: **Changing conditions in the pig industry**

Overview: This resource material aims to help teachers and students in junior secondary schools explore new and existing methods and technologies involved on Australian pig farms to house, produce pigs, manage resources sustainably and adapt to changes in animal welfare standards, temperature, extreme events, rainfall and its distribution.

Students are given an insight into ways farmers care for their animals and are designing housing systems using a variety of housing regimes, designed with improving yields, environmental stewardship principles and animal welfare standards in mind.

It contains a unit of work with a variety of student activities selected as vehicles to help students:

- Investigate and explore new and existing methods, designs and technologies involved on Australian pig farms to house and produce pigs
- Assess places where and the ways in which people have grown pigs and produced food and how their actions are influenced by increases in scientific knowledge and developments in technology
- Investigate concepts and ideas relating to how concerns about animal welfare has influenced the designs
- Investigate concepts and ideas about land management, sustainable farming, climate adaptation and sustainability and how these influence the designs
- Select ideas and undertake an inquiry
- Reflect and evaluate the success of the action pig farmers are taking for improving yields, comfort standards for their pigs, social sustainability considerations of their sows, sustainable resource management practices and adapting to climate change by producing low emission energy and producing quality pigs.

Curriculum Links:

By the end of this unit, students should understand:

- How food (pigs) are produced in managed systems and how these systems can become more sustainable (8.4)
- Science understanding influences the development of practices in areas of human activity such as agriculture and resource management (ACSHE121)
- Science and technology contribute to finding solutions to a range of contemporary issues; these solutions may impact on other areas of society and involve ethical considerations (ACSHE120)
- Science understandings influence the development of practices in areas of human activity such as industry, agriculture and terrestrial resource management (ACSHE136).

New Learn About Wool kits deliver our fibre to the classroom

A brand new resource is now available to both primary and secondary schools with the launch of the Australian Wool Innovation Education Kits.

Developed in conjunction with leading primary and secondary teachers, the free Learn About Wool kits include multimedia presentations, fabric and fibre samples, factsheets and posters. The extensive classroom resources describe in detail the on-farm production, processing, marketing and fashion aspects of Australia's natural fibre.

Whether investigating wool as a material for a fashion project, exploring its rich and colourful history or investigating the way modern wool producers manage the natural environment, the Learn About Wool kit contains material to engage and excite students across all ages and learning areas.

The kit has already been classroom-tested by many teachers.

"The Learn About Wool kit will enable me to explore how wool is produced and what happens after it leaves the farm with my students. The samples will enable them to touch and feel the product as they learn. The broad range of factsheets give me the confidence to talk about different aspects and the additional images and videos on the USB add an extra dimension to my teaching. The kit is an excellent resource for kinder to Year 10 students," said Mrs Peta Copps, Infants teacher, St Matthews Catholic School Mudgee.

Large fabric samples within the kit allow children to feel the softness of Australian wool and are supported by text and graphics explaining the many potential users of the fibre. Large posters explain the journey wool takes from the sheep's back through both woollen and worsted processing to the end user. Two sets of extensive factsheets contain significant industry information in easy-to-digest graphics and text. The Workboot Series book "Wool" is included as an informative resource developed by the Kondinin Group and continues to be popular with students of all ages. Additional information, videos and PDF resources are contained within a USB drive which is included.

The kit builds on Australian Wool Innovation's education portfolio which continues to reconnect new generations of Australians with our country's most famous fibre. With tens of thousands of Sam the Lamb colouring books and posters distributed yearly, The Workboot series on Wool in school libraries and the Wool4Skool® competition now engaging more than 1000 students annually, the message of living naturally and choosing wool is reaching many young Australians.

Learn About Wool kits are free to any primary or secondary teacher. To apply simply contact the AWI Helpline on 1800 070 099 or email teacherskit@wool.com.



Upcoming Agricultural Events

Royal Canberra Show

Flemington Road, Exhibition Park, Lyneham, ACT

21 – 23 February 2014

<http://www.rncas.org.au/showwebsite/site/index.php>

Royal Easter Show

1 Showground Road, Olympic Park, NSW 2127

10 - 23 April, 2014

<http://www.eastershow.com.au/>

Tocal Field Days

815 Tocal Road, Paterson, NSW 2421

2-4 May 2014

www.tocalfelddays.com

Snippets

Horizon Scholarship

<http://www.rirdc.gov.au/research-programs/rural-people-issues/horizon-scholarship>

Peter Westblade Scholarship

<http://www.peterwestbladescholarship.com.au/how-apply>

eChook News

<http://www.poultryhub.org/>

An Alternative Composting System

I have just returned from visiting my daughter in Brisbane where she introduced me to the Bokashi system of composting. I immediately saw its potential for use in schools. I tried many times to get the school canteen and Home Science faculty to collect food wastes and transport them to the school farm for composting or to use them in a worm farm. I had a few short term successes but invariably they failed due to the need to empty the collection containers daily, the need to sort wastes, unacceptable odours or some other reason.

Using the Bokashi system ALL wastes can be composted and the collection bin(s) can be emptied weekly if that is what is desired. The usual practice is to bury the fermenting wastes under a garden bed (where it decomposes very quickly) but there is no reason why it can not be emptied into an anaerobic compost system.

More information about the system is available here: <http://www.bokashi.com.au/>

The resources required are readily available through retail outlets (see the website just mentioned) or online. Collection buckets could be made cheaply from any plastic bucket with a tight fitting lid by attaching a tap at the bottom and a perforated base inside the bucket.

I'm happy to answer questions that anyone might have about adapting the system in their school.

Arthur Kelly
adkel53@gmail.com

Native Bees Workshops

Sessions that were to be run late 2013 for native bees were postponed. They will now be run early in term 1 of 2014. Teachers should look on the website www.stevesnativebees.com.au to view relevant dates for their area. These courses are registered with the NSWIT and National curriculum and count towards 5 registered hours of professional development.

Steve Maginnity

Make your own wicking planter box

Arthur Kelly advised of another idea that really works well and some Agriculture teachers might like to try with their classes (or at home!)

<http://www.mvcc.vic.gov.au/~media/Files/ForResidents/Environment/My%20Smart%20Gardens/Make%20a%20wicking%20planter%20box%20workshop%20notes.ashx>

NRM on Farms

This monthly newsletter contains a wealth of information on climate and natural resources in Agriculture. It is a wonderful resource full of current research, resources, weblinks and events. An electronic copy is available, and to subscribe to NRM on farms, email Rebecca Lines-Kelly at:

rebecca.lines-kelly@dpi.nsw.gov.au

Vermiculture Resources

The Australian Worm Growers Association Vermiculture Inc. has information and worksheets available for download on their website:

<http://www.ausworm.com/educational.htm>

Info Sheet 1 - How to Vermicompost and Compost
Info Sheet 2 - How to make worm tea

Worksheet 1 - Waste and Climate Change (years 5 - 10)
Worksheet 2 - Energy and Food (years 5 - 10)
Worksheet 3 - The future of food (years 5 - 10)
Worksheet 4 - Composting and the Earthworm (years 5 - 10)

Station Hands / Jackeroos / Jillaroos Wanted

Georgina Pastoral Company would welcome resumes from any of your students looking for a career in the Beef Industry. We are currently recruiting mostly station hand/jackaroo/jillaroo positions for our stations for the 2014 season. I realise 2014 is coming around very quickly so if a tad late, than we'd appreciate keeping in touch for 2015.

I look forward to hearing from you.

Sarah Chaplain
Georgina Pastoral Company
Lake Nash Station
PMB 16
Mount Isa Qld 4825
Office: 07 4748 4877

Fax: 07 4748 4881

TOCAL Topics

You can download past editions of the Tocal Newsletter from their website and also subscribe to receive an electronic copy by email. Go to:

It's time to jump the ditch for some Kiwi fruit

University of Queensland Sunflower Competition 2014

Register now for the 2014 UQ Sunflower Competition which is proudly hosted by the University's School of Agriculture and Food Sciences. Sunflower seeds, soil, water and sunlight are all the elements you need for fun, hands-on, experimental learning.

For further information on the competition, including registration, key dates, competition rules and forms, please visit the official UQ Sunflower Competition webpage:

<http://www.uq.edu.au/agriculture/sunflower-competition>

Register before 14 February 2014

For more information contact

Karli Kollegger
07 5460 1279
k.kollegger@uq.edu.au

Farming for the 21st Century / Animal Welfare

Two video segments illustrating the use of drones in Agriculture were shown on the ABC TV program Landline.

1. *Sky Wars* on 2 September 2013: <http://www.abc.net.au/landline/content/2013/s3838274.htm>
 2. *Eyes in the Sky* on 19 October 2013: <http://www.abc.net.au/landline/content/2013/s3872768.htm>
-

Sheep CRC

Newsletter subscriptions at: <http://www.sheepcrc.org.au/information/subscriptions.php>

On Sunday 6 October ABC Landline featured a story titled 'Prickle Factor'. The story was based on work done by the Sheep CRC's Wool Research Program and features two new instruments, '*The Wool ComforMeter*' and '*Wool HandleMeter*', used to measure the next-to-skin comfort of wool.

See it at: <http://www.abc.net.au/landline/content/2013/s3863065.htm>

Jobs in Agriculture

Eric Date (Crestwood High School) uses the website <http://www.alife.net.au/a/profile/view/109> for his students to view a range of jobs available in the Agricultural sector. For example, for my aquaculture unit we view the videos of the aquaculture farm hand, oyster farm owner and marine scientist. They are pretty short clips but suit the purpose and are AUSTRALIAN!

Animals in Schools

Don't forget to look at the Livestock Handling videos on the Animals in Schools website
<http://www.schools.nsw.edu.au/animalsinschools/index.htm>

Your contact is Sally Bannerman on 02 9244 5520
sally.bannerman@det.nsw.edu.au

Reporting Software

Justin Connors reported that this useful little reporting program can be modified to suit your classes.
Well worth a look. Seems to be very functional and FREE.

<http://www.rayslearning.com/report.htm>

Catering

- * *Wingham is “the friendly town” that will make you feel welcome.*
- * *Camping is available at the Wingham Showground and facilities include hot showers and clean toilets. Log fires and a timber supply will also be provided for your comfort.*
- * *A dedicated band of volunteers will be on hand to provide all meals from Tuesday night to Friday lunch where required at a reasonable price.*



Major

Sponsor

Entry fees are \$44.00 per animal for the Hoof and Hook Competition.

- * Payments from the abattoirs to competitors for their cattle are calculated using a ‘grid’.
- * Bonus payments are made to competitors whose animals meet specifications or who are place getters in the competitions.



It's time to jump the ditch for some Kiwi fruit

Wingham Beef Week 2014



A great experience!!

“From Paddock to Plate” Where the focus is on developing and testing student’s knowledge of the beef industry

Why Come?

- Excellent prizes/prize money, trophies, ribbons.
- Supervised dance & other organised night activities.
- Security at showground.
- Travel subsidy **\$100** for each exhibiting school.
- Good Facilities.
- Covers sections of Senior and Junior Ag Syllabus.
- Huge Jackpot Prize.
- Only steer show in NSW where you receive full carcass results, ribbons and prize money **before you leave for home.**
- Follow your genetics from “paddock to plate”



Events

Competitions focus on the Beef Industry and include:

- ✓ Education Day- Tuesday
- ✓ Parading/Junior judging- Wednesday. [Organizers can source some animals for a competitor who needs one].
- ✓ Hoof Judging-Thursday
- ✓ Beef Appreciation Competition including
 - Primal Cuts Identification and Assessment-Thursday
 - Wholesale Cuts Identification and Assessment- Thursday
 - Carcass Judging and Assessment in the abattoir chillers, as well as exhibitors viewing -Friday Morning
- ✓ The Un led Section - Thurs /Friday

When:
Tuesday 15th to Friday 18th May 2012

Where: Wingham Showground
and Wingham Beef Exports

Who to contact for further information:

Charles Cassels /John Hawkins
Agriculture Teachers Wingham High School
Ph: 02 6553 5488
Fax: 02 6557 0372

or

The Secretary, Jenn Gallagher
Mob: 0438 269 936

E Mail: winghambeefweek@live.com.au



It's time to jump the ditch for some Kiwi fruit



**AUSTRALIAN
MADE**

FREE CALL 1800 814 107 www.arrowfarmquip.com.au

Spring

**LIVESTOCK
EQUIPMENT 2013**



SHEEP



CATTLE



Not all crushes are created equal, not all crushes are the same



Hydra Squeeze 2000V Vet Crush

- Includes electric power pack
- Unique Cradle V Squeeze, ask us why it is better
- Squeeze both sides
- Hydraulic rear gate & head control



Code: HYD2000V



SAVE \$5,000

\$22,799 Inc GST

PRO267

Q-Catch 5300 Vet Crush

- Single sided parallel squeeze
- Add the options you require so we can build a crush to suit your needs



Code: QCS300



Add 1/4 Price Head Holder

\$7,475 Inc GST

PRO268

Q-Catch 4300 Vet Crush

- Entry level Q-Catch crush that includes the same head ball as our top of the range crush
- Ratchet style squeeze
- Ask about options available



Code: QC4300



\$5,665 Inc GST

PRO269

Cow Catcher 2050 Crush

- NEW and IMPROVED design
- Great value



Code: CWCVC



SAVE \$311

\$4,200 Inc GST

PRO275

Red Dot Vet Crush

- Best value crush on the market today!
- Ease of use, quality manufacture and reliability

Code: RDVC



SAVE \$304

\$3,250 Inc GST

PRO269

Calf Cradle with gates

- Very popular table type calf cradle



Code: TTCCL



SAVE \$520

\$3,289 Inc GST

PRO276

X-Flow Crowding Tub

NEW IMPROVED DESIGN



- The traditional 'force' tub has been revamped. Arrow's tubs have been redesigned for even greater efficiency, ease of use and better flow with two exit points.

12 MONTH WARRANTY

We also make equipment for

HORSES & GOATS

Ask our team today
1800 814 107

3.5m Standard Loading Ramp

- Heavy Duty standard ramp
- Ideal for all types of cattle
- Check out our full range of loading ramps

Code: LRSTD



SAVE \$204

\$1,840 Inc GST

PRO270

Large Range of Portable Ramps

- From adjustable mobile ramps to Dual axle ramps.
- Call us for the right ramp to suit your needs

Code: LR48M



12 MONTH WARRANTY

PERMANENT CATTLE YARD SYSTEMS

FREE Design Service available

Ask our team today

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ARROW FARMQUIP
Livestock Handling Solutions

* Prices valid from 8.00am 2nd September 2013 until 4.00pm 29th November 2013. ** Additional freight charges may apply. Free freight into Brisbane, Dulais, Melbourne and Sydney depots for orders over \$3,000 (inc GST), free freight into Adelaide depot for orders over \$7,000 (inc GST). Please note prices available in ACT, NT, QLD, NSW, VIC & SA only. Not available in conjunction with any other offer. All advertised prices include GST. Pictures are for illustration purposes only. Product specifications subject to change without notice.

FREE CALL 1800 814 107 www.arrowfarmquip.com.au



Use your time wisely, be more efficient and it will save you money



Portable Sheep yards

- Take your yards to the sheep not your sheep to the yards
- Ideal for lamb marking
- New Tyres and rims



Code: EPSY17

PR0271



SAVE \$500
\$5,376
Inc GST

5 Unit Rotary Lamb Marking Cradle

- Ideal for marking large numbers of lambs
- Proven cradle that firmly holds a large range of sizes
- Other unit options available



Code: LMC55



\$2,806
Inc GST

Single Unit Lamb Marking Cradle

- Proven design holds lambs firmly and releases easily and safely
- Stands optional



Code: LMC



\$414
Inc GST

V Sided Draft Module

- Longer and Stronger
- Encourages sheep to walk single file making drafting easy



Code: DMVS



SAVE \$485
\$1,320
Inc GST

V-Express

- The Rolls Royce of sheep handlers
- Ask how we can save you time and money with this machine



Code: VEXB



\$16,192
Inc GST

Type 2 Bugle

- You will be surprised how well your sheep will flow through your yards with this



Code: BUGLE2

PR0273



SAVE \$200
\$4,572
Inc GST

Range of Sheep Loading Ramps

- 6 Models available
- Adjustable, mobile, knock down, side walks and many more



Code: SLR35A



Custom widths available ask now

AgBelt - Polly Sheeting

Tough and versatile - use it to sheet panels, line feeders and more.

Available in:

- 600mm wide x 10m - Code: PB6010
- 600mm wide x 60m - Code: PB 600-60
- 900mm wide x 10m - Code: PB9010
- 900mm wide x 60m - Code: PB 900-60
- 1200mm wide x 10m - Code: PB12010
- 1200mm wide x 60m - Code: PB 1200-60



In Stock NOW

FROM \$200
Inc GST

Galvanised 12ft Sheep Feeder

- Ideal for finishing your lambs
- Heavy duty construction
- Quality feed flow control



Code: SHEEP3TG

PR0273



BUY 2 FOR \$2,970
\$3,182
Inc GST

Round Wool Table

- Designed and tested by experienced wool classers and sheep hands
- You can skirt fleeces faster with one man



Code: RWT



\$1,170
Inc GST

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FREE Design Service available

Ask our team today

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Protect your livestock

Keep your family and workers safe



Livestock handling made easy.

CATTLE YARDS - many other design available

AFQ33 7.5m x 11.5m

Holds 33 head of cattle

Includes:

- Vet Crush
- Ramp
- Loading ramp
- Panels
- Gates
- Quick erection

Also available in fully Permanent

Crush Upgrade available, ask now!



\$9,396
incl GST

AFQ72 15.5m x 11.5m

Holds 72 head of cattle

Includes:

- Vet Crush
- Ramp
- Loading ramp
- Panels
- Gates
- Quick erection

Also available in fully Permanent

Crush Upgrade available, ask now!



\$11,446
incl GST

AFQ195 28m x 16m

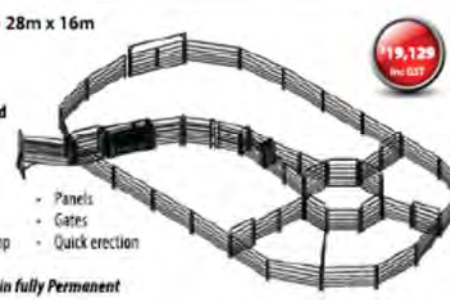
Holds 195 head of cattle

Includes:

- Vet Crush
- Ramp
- Loading ramp
- Panels
- Gates
- Quick erection

Also available in fully Permanent

Crush Upgrade available, ask now!



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incl GST

SHEEP YARDS - many other design available

ASX140 9m x 10m

Holds 140 head of Sheep

Includes:

- Draft Module
- Panels
- Gates

Also available in fully Permanent



\$5,201
incl GST

ASX400 18m x 11m

Holds 400 head of Sheep

Includes:

- Draft Module
- Panels
- Gates

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\$8,937
incl GST

ASX1000 25.5m x 21m

Holds 1000 head of Sheep

Includes:

- Draft Module
- Panels
- Gates

Also available in fully Permanent



\$11,720
incl GST

Yenda Producers Co operative Society Ltd
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☎ 02 69640236

☎ 0427566679



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