



**2006  
Conference**

**10<sup>th</sup> – 14<sup>th</sup>  
October  
2006**

**Charles Sturt  
University**

**Wagga Wagga**

8

**Resources in  
Agriculture &  
Primary Industries**

**^ Agriculture Year 9**

**Tumut High School**

- Growing Chickens
- Comparative study: Broilers/ Pullets

**^ Primary Industries:**

**Wagga Wagga High School**

- Units of Competence
- Program Sequence

**^ Primary Industries**

**Tumut High P.I. Core Programs**

- Course Pattern
- Unit: "Follow OH&S Procedures"
- Unit: "Participate in Workplace Communications"

^ Mr Richard Pratt, who owns Visy Industries & Pratt Water; has a vision to implement a national water strategy, this plan would include open irrigation channels being converted into piped channels or these channels lined & covered.

^ Mr Pratt's vision would see a dramatic reduction in water loss from evaporation & seepage.

## YEAR 9 AGRICULTURE GROWING CHICKENS

NAME:

DATE:

NUMBER OF CHICKENS/GROUP: _____		DURATION PERIOD: _____	
SUPPLIER: _____		AGE OF CHICKENS: _____	
CHICKEN TYPE	CHICKEN NUMBER	BREED TYPE	COST/BIRD
i)			
ii)		i)	
		ii)	

### A) BROILER CHICKENS

#### i) Growth Rates

DATE	WEEK	NUMBER WEIGHED	GROSS WEIGHT (grams)	AVERAGE (grams)

#### ii) Broiler Feed

DATE	WEEK	TYPE	QUANTITY	\$ COST \$

**B) PULLET CHICKENS**

**i) Growth Rates**

DATE	WEEK	BREED	NUMBER WEIGHED	GROSS WEIGHT AVERAGE (grams)	BREED AVERAGE (grams)	PULLET AVERAGE (grams)

**ii) Pullet Feed**

DATE	WEEK	TYPE	QUANTITY	\$ COST \$

**C) PROTEIN ANALYSIS OF FEED**

WEEK	CHICKEN TYPE	FEED TYPE	PROTEIN %

**D) CHEMICALS:**

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WEEK	DATE	TYPE	PURPOSE	\$COST\$

**E) MANAGEMENT RECORD**

WEEK	DATE	TEMPERATURE °C		DEATHS TYPE/No.	REASON
		MAX	MIN		

Total Deaths:      Pullets \_\_\_\_\_  
                                  Broilers        \_\_\_\_\_

**F) COMPARISON OF EXPENDITURE (8 weeks)**

	BROILERS	PULLETS
Chicken Cost \$		
Feed Cost \$		
Chemical Cost \$		
Total Cost \$		
Cost/Bird \$		

**G) WEEKLY OBSERVATIONS**

WEEK	BROILERS	PULLETS
1		
2		
3		
4		
5		
6		
7		
8		

**H) SUMMARY:**

\_\_\_\_\_

\_\_\_\_\_

## WAGGA WAGGA HIGH SCHOOL

### Primary Industries (240 indicative hours)

<b>MAND Attempt ALL units</b>				
Unit code	Unit title (these 9 examinable for HSC exam)	HSC ind hrs	Category status Cert II in Ag	Category Status Cert II in Rural Operations
			4 units -A(inc *) 10 units -B 3 units -B and/or C Total = 17 units	4 units -A(inc*) 6 units -B 7 additional units Total =17 units
RTC2209A	Install, maintain and repair fencing	15	B	B
RTC2401A	Treat weeds	10	B	B
RTC2701A	Follow OHS Procedures	20	A*	A*
RTC2702A	Observe environmental work practices	15	A*	A*
RTC2704A	Provide basic first aid	10	B	B
RTC2705A	Work effectively in the industry	15	A*	A*
RTC2706A	Apply chemicals under supervision	25	B	B
RTC2801A	Participate in workplace communications	10	A*	A*
RTE2503A	Observe and report on weather	10	B	B
	Total	130	9 units	9 units

### ELECTIVE POOL Attempt units to a minimum value of 110 indicative hours

#### General

RTC2210A	Maintain properties and structures	20	B	B
RTC2301A	Undertake operational maintenance of machinery	10	B	B
RTC2307A	Operate machinery and equipment	20	B	B
RTC2309A	Operate tractors	30	B	B
RTD2202A	Conduct erosion and sediment control activities	10	C	B
RTD2313A	Clean machinery of plant, animal and soil material	10	B	B
RTD2803A	Observe and report plants and/or animals	10	C	B
RTE2201A	Carry out basic electric fencing operations	15	B	B
RTE2308A	Operate ride-on vehicles	15	B	B
RTE2603A	Lay irrigation and/or drainage pipes	15	B	B
RTE2804A	Provide information on products and services	15	B	B
RTE2902A	Collect and record production data	10	B	B

#### Livestock

RTE1105A	Undertake basic shearing and crutching	20	C	B
RTE2110A	Maintain livestock water supplies	15	B	B
RTE2113A	Monitor livestock to parturition	10	B	B
RTE2114A	Monitor water supplies	15	B	B
		<b>8.5</b>		

RTE2115A	Muster and move livestock	10	B	B
RTE2117A	Pen sheep	15	B	B
RTE2118A	Handle livestock using basic techniques	15	B	B
RTE2124A	Carry out birthing duties	10	B	B
RTE2128A	Provide feed for livestock	15	B	B
RTE2134A	Assist with feeding in an intensive production system	10	B	B
RTE2136A	Load and unload livestock	10	B	B
RTE2144A	Carry out regular livestock observation	10	B	B
RTE2216A	Assist in preparing for shearing and crutching	15	B	B
RTE3133A	Prepare livestock for competition	20	C	B

### Plants

RTC2012A	Plant trees and shrubs	15	C	B
RTC2016A	Recognise plants	10	B	B
RTC2026A	Undertake propagation activities	20	B	B
RTC2404A	Treat plant pests, diseases and disorders	15	B	B
RTD2004A	Collect, prepare and preserve plant specimens	15	C	B
RTF2013A	Pot-on plants	5	C	B
RTF2014A	Prepare and maintain plant displays	20	C	B
RTF2017A	Prune shrubs and small trees	10	C	B
RTF2024A	Tend nursery plants	10	C	B
RTF2025A	Transplant small trees	10	C	B
RTF2504A	Determine basic properties of soil/growing media	10	B	B
RTE2010A	Establish horticultural crops	15	B	B
RTE2011A	Assist agricultural crop establishment	15	B	B
RTE2021A	Support horticultural crop harvesting	15	B	B
RTE2029A	Assist agricultural crop maintenance	10	B	B
RTE2030A	Assist agricultural crop harvesting	15	B	B
	Total		8 units	8 units

### Qualifications

**Certificate II in Agriculture** is the Industry Qualification most students will be working towards. It will require students to complete **17 units** of competency as shown in the table above. (9 mandatory + 8 electives units)

#### **Specialisation or Extension Study:**

It is possible to take extra hours of Primary Industries particularly in Year 12 eg 60hrs (1 unit) 120hrs (2unit). This can give you extra HSC units and possibly extra qualifications. Usually this means specialising in an industry sector. eg beef cattle or poultry.

There are many more units to choose from in this option.

If you had an interest in an Industry sector and you did approximately 4 additional units (approx 60 hrs), you could qualify for a **Cert II in Agriculture** specialising in that field plus possibly **Cert II in Rural Operations** (240 hours)

**TUMUT HIGH SCHOOL  
PRIMARY INDUSTRIES  
HSC & AQF 11 COURSE PATTERN**

<b>HSC Requirements</b>	
<b>“Core Competencies”</b>	
<ul style="list-style-type: none"> <li>^ Participate in workplace communication</li> <li>^ Follow OHS procedure</li> <li>^ Provide basic first aid</li> <li>^ Work effectively in the industry</li> <li>^ Observe &amp; report weather</li> <li>^ Observe environmental work practices</li> <li>^ Install, maintain &amp; repair fencing</li> <li>^ Apply chemicals under supervision</li> <li>^ Treat weeds <span style="float: right;">130hours</span></li> </ul>	
<b>“Elective Units</b>	
<b>110hours</b>	
<p align="center"><b>“General Pool”</b></p> <ul style="list-style-type: none"> <li>^ Maintain properties &amp; structures <span style="float: right;">20</span></li> <li>^ Operate tractors <span style="float: right;">30</span></li> <li>^ Operate ride-on vehicles <span style="float: right;">15</span></li> </ul> <p align="center"><b>“Livestock Pool”</b></p> <ul style="list-style-type: none"> <li>^ Handle livestock using basic equipment <span style="float: right;">15</span></li> <li>^ Provide feed for livestock <span style="float: right;">15</span></li> </ul> <p align="center"><b>“Plant Pool”</b></p> <ul style="list-style-type: none"> <li>^ Pot-on plants <span style="float: right;">5</span></li> </ul> <p align="center"><b>“Livestock Pool”</b></p> <ul style="list-style-type: none"> <li>^ Load &amp; unload livestock <span style="float: right;">10</span></li> </ul> <p align="center"><b>“Plant Pool”</b></p> <ul style="list-style-type: none"> <li>^ Determine basic properties of soil/ growing media <span style="float: right;">10</span></li> <li>^ Tend nursery plants <span style="float: right;">10</span></li> </ul>	
<b>Elective Units Total:</b>	<b>130hours</b>

<b>AQF Certificate 11 in Agriculture</b>	
<b>“Core Competencies”</b>	
<ul style="list-style-type: none"> <li>^ Participate in workplace communication</li> <li>^ Follow OHS procedure</li> <li>^ Work effectively in the industry</li> <li>^ Observe environmental work practices</li> </ul>	
<b>“Elective Units Group B</b>	
<b>10 units</b>	
<p align="center"><b>“General Pool”</b></p> <ul style="list-style-type: none"> <li>^ Treat weeds</li> <li>^ Install, maintain &amp; repair fencing</li> <li>^ Observe &amp; report weather</li> <li>^ Apply chemicals under supervision</li> </ul> <p align="center"><b>“General Pool”</b></p> <ul style="list-style-type: none"> <li>^ Maintain properties &amp; structures</li> <li>^ Operate tractors</li> <li>^ Operate ride-on vehicles</li> </ul> <p align="center"><b>“Livestock Pool”</b></p> <ul style="list-style-type: none"> <li>^ Handle livestock using basic equipment</li> <li>^ Provide feed for livestock</li> </ul> <p align="center"><b>“Plant Pool”</b></p> <ul style="list-style-type: none"> <li>^ Pot-on plants</li> </ul>	
<b>3 Units from Group B or C</b>	
<p align="center"><b>Group B</b></p> <p align="center"><b>“Livestock Pool”</b></p> <ul style="list-style-type: none"> <li>^ Load &amp; unload livestock</li> </ul> <p align="center"><b>“Plant Pool”</b></p> <ul style="list-style-type: none"> <li>^ Determine basic properties of soil/growing media</li> </ul> <p align="center"><b>“Group C”</b></p> <ul style="list-style-type: none"> <li>^ Tend nursery plants</li> </ul>	