



NSW DEPARTMENT OF PRIMARY INDUSTRIES

Summer Perennial Pasture: White clover/ryegrass (Establishment & Maintenance)

(Flood Irrigated - Border Check)

Murrumbidgee Valley & Murray Valley

Costs only

Irrigated Winter - 2009

CALENDAR OF OPERATIONS:		Machinery			Inputs			Total Cost	
Operation	Month	hrs /ha	Cost \$/hour	Total \$/ha	Rate/ha	Cost \$	Total \$/ha	Total Cost \$/ha	
Establishment									
Disc	Jan	0.35	\$42.85	\$14.88				\$14.88	
Scarify (x 2)	Jan/Feb	0.17	\$45.05	\$15.43				\$30.86	
Grade	Feb	0.17	\$45.05	\$7.71				\$7.71	
Sow (ryegrass)	Mar/Apr	0.17	\$62.38	\$10.48	15kg/ha	\$3.50/kg	\$52.50	\$62.98	
Sow (white clover)		with above			2kg/ha	\$6.50/kg	\$13.00	\$13.00	
inoculate seed		with above			2kg/ha	\$0.05/kg	\$0.10	\$0.10	
Phosphorus fertiliser (<i>eg. single super</i>)		with above			300kg/ha	\$0.89/kg	\$267.00	\$267.00	
Insect and mite spray (<i>eg. dimethoate</i>)		contract	\$10.00		0.09 L/ha	\$8.35/L	\$0.75	\$10.75	
Broadleaf weed spray (<i>eg bromoxynil</i>)	May/June	contract		\$10.00	2.00 L/ha	\$16.69/L	\$33.38	\$43.38	
Irrigation*	Sept-Mar				10.00ML/ha	\$36.8/ML	\$367.76	\$367.76	
Total Establishment Costs								\$818.42	
Maintenance									
Insect and mite spray (<i>eg. dimethoate</i>)	Apr/May	contract		\$10.00	0.15 L/ha	\$8.4/ML	\$1.25	\$11.25	
Broadweed spray (<i>eg.2,4-DB</i>)	May	contract		\$10.00	2.10 L/ha	\$8.7/ML	\$18.27	\$28.27	
Topdress phosphorus fertiliser (<i>eg. single super</i>)	Aug		0.05	\$41.38	\$2.23	500kg/ha	\$0.9/ML	\$445.00	\$447.23
Irrigation*	Sep-Mar				13.00ML/ha	\$36.8/ML	\$478.08	\$478.08	
Total maintenance costs per year								\$964.83	
AGRONOMIC NOTES: See NSW dpi website (www.dpi.nsw.gov.au)for specific information on pastures									
Use of a particular brand name does NOT imply a recommendation of that brand by NSW DPI.									
Always read chemical labels and follow directions carefully, as it is your legal responsibility to do so.									
Inoculation	- Use correct strain of rhizobium inoculant on clover (Strain B for white clover).								
Layout	-Border check layouts with even grades & slopes steeper than 1:1000 are preferred to ensure good drainage. - Bay length for irrigation should not exceed 300m.								
Varieties	- See Primefacts <i>White Clover</i> and <i>Pasture varieties used in NSW, NSW DPI</i> . - Use varieties adapted to your situation.								
Herbicides	- Bromoxynil used for broadleaf weeds in this budget. - Other options are available, (see <i>Weed Control in Lucerne and Pastures 2007, NSW DPI</i>). - Rotate herbicide groups to avoid insect resistance.								
Grazing	- For white clover / grass pastures, set stocking is needed to maintain the quality of the pastures. - Stocking rate must match pasture availability.								
Insecticides	- Dimethoate used for earhmitte control (other options available - see " <i>Insect and mite control in field crops</i> ", <i>NSW DPI</i>)								
Fertilisers	- Phosphorus applied as superphosphate at sowing and in early spring each year.								
Irrigation	- Schedule irrigations (7-10 days) depending on soil type and evapo-transpiration to maintain white clover component which requires frequent irrigation in summer to survive. - (longer interval on clay soils). Fast irrigations (less than 12 hrs) required. - *The budget uses Murrumbidgee IA total water costs based on 50% allocation. - Irrigation cost includes the variable cost and fixed water costs of \$19.18/ML. - For prices in other areas and districts, refer to the water prices section.								
Machinery	- Machinery costs include variable costs only for the tractor and implements.								
Labour	- The labour required for machinery operations is 1.08 hr/ha. - Using a labour cost of \$14/hr, an additional \$15/ha can be deducted from the budget.								
Economic note:	- These gross margins are only a guide. They do not include overhead costs or GST. - Input and crop prices are correct at the time of writing (Feb 2008). Market uncertainty makes estimation of future pricing impractical. - Use your own figures and price assumptions to determine your own gross margin.								