

Feed on Offer Photo Library

Use in conjunction with the Lifetime Ewe Management feed budgeting tables available at lifetimewool.com.au



Cereal crop FOO values

Grazing cereals is common in many regions. The following relationships between Green cereal height and the FOO values have been supplied by the Grain and Graze project. Full details of grazing and use of cereals by livestock can be found at www.grainandgraze2.com.au

If the crop is less than 25 cm tall, sown at 17.5 cm spacing, use the relationship below between crop type, height and yield. For all green cereals, the energy content is usually 11-12 MJ/kg (72-78% Digestibility).

Wheat:	Each 1 cm = 60 kg/ha, Feed on Offer	For 15 cm rows add 10% to the FOO values.
Barley:	Each 1 cm = 75 kg/ha, Feed On Offer	For 20 cm rows reduce the FOO values by 10%.
Triticale:	Each 1 cm = 65 kg/ha, Feed On Offer	

Lifetime Ewe Management

The FOO Library was developed by Australian Wool Innovation and the Rural Industries Skills Training Centre to help people undertaking the Lifetime Ewe Management course. Further details can be found at;

Australian Wool Innovation: www.wool.com

RIST Centre: www.rist.com.au

Lifetime Ewe Management: www.rist.com.au/lifetime_ewe_management

FOO Library Collaborators

The FOO Library project was established and managed by Geoffrey Saul, PSA Services Hamilton. Darren Gordon, Coordinator of Lifetime Ewe Management managed interaction between RIST, Lifetime Ewe and the Library. Assistance and comments were provided by Anita Morant, Kirsty Kennedy and Tim Prance.

Many public and private research and extension officers across Australia assisted in the project including:

Victoria; Margaret Raeside, Steve Clark, Lisa Warn, Anita Morant, Meredith Mitchell, Ken Wilson

New South Wales; Luke Harrison, Ben Watts, Sue Boschma, Garry Armstrong

Queensland; David Counsell

Western Australia; Eric Dobbe, Rodger Bryant, Matthew Young, Jonathon England, Mandy Curnow, Mike Hyder

South Australia; Tim Prance, Daniel Schuppan

AWI, RIST, Lifetime Ewe Management, PSA Services and the individual officers who provided photos and data for the library, accept no liability whatsoever by reason of negligence or otherwise arising from the use of or release of this information or any part of it.




Lifetime Ewe Management



Lifetime Ewe Management - FOO Library Results
NSW Autumn

117 benwatts_WC_2512




	Green	Dead
Feed On Offer (kg/ha):	1,895	100
Digestibility (%):	65.4	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	9.6	NA
Sheep Intake (MJ/day):	15.5	
50kg dry, Condition score 3		
Crude Protein (%):	25.4	NA
Pasture Height (cm):	9	1
Ground Cover (%):	90	
Legume (%):	90	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	White clover	

Comments	
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118 benwatts_WCL_2512




	Green	Dead
Feed On Offer (kg/ha):	1,715	90
Digestibility (%):	65.4	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	9.6	NA
Sheep Intake (MJ/day):	13.7	
50kg dry, Condition score 3		
Crude Protein (%):	25.4	NA
Pasture Height (cm):	5	1
Ground Cover (%):	90	
Legume (%):	90	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	White clover	

Comments	
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

119 benwatts_WG_16512




	Green	Dead
Feed On Offer (kg/ha):	100	4,800
Digestibility (%):	NA	40.7
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.4
Sheep Intake (MJ/day):	9.5	
50kg dry, Condition score 3		
Crude Protein (%):	NA	6.1
Pasture Height (cm):	1	10
Ground Cover (%):	70	
Legume (%):	5	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	Warrigo grass	

Comments	Tropical pasture used in Grazfeed calculations
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120 benwatts16512




	Green	Dead
Feed On Offer (kg/ha):	100	1,800
Digestibility (%):	NA	40.7
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.4
Sheep Intake (MJ/day):	8.8	
50kg dry, Condition score 3		
Crude Protein (%):	NA	6.1
Pasture Height (cm):	1	5
Ground Cover (%):	75	
Legume (%):	5	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	Warrigo grass	

Comments	
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121 benwatts2-5-12




	Green	Dead
Feed On Offer (kg/ha):	1,026	684
Digestibility (%):	48.6	47.3
Equivalent to		
Metabolizable Energy (MJ/kg):	6.7	6.5
Sheep Intake (MJ/day):	6.2	
50kg dry, Condition score 3		
Crude Protein (%):	10.2	8.2
Pasture Height (cm):	3	6
Ground Cover (%):	80	
Legume (%):	10	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	Red grass	

Comments	Tropical pasture used in GrazFeed assessment
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122 benwatts_RG_2512

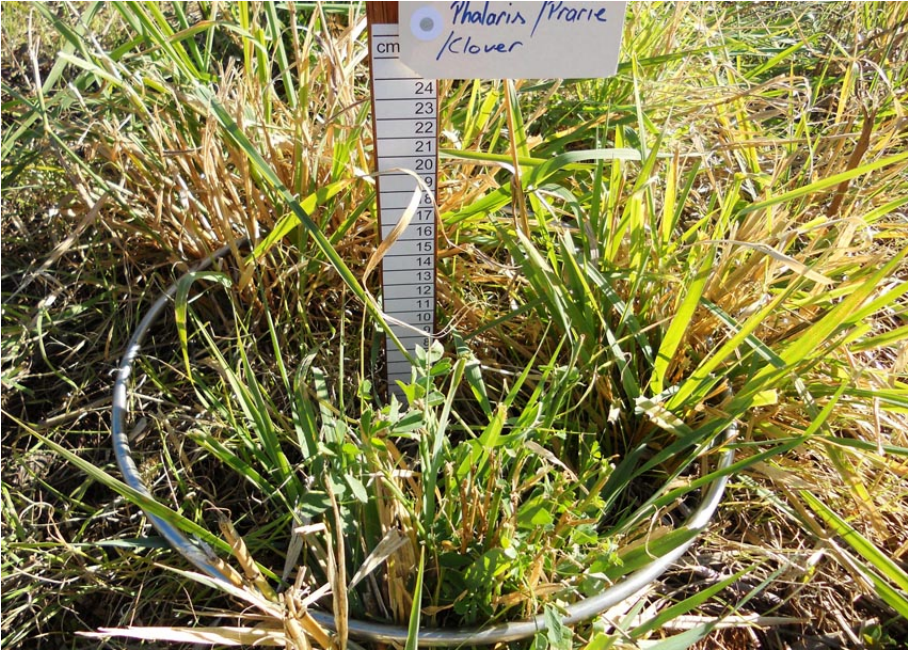



	Green	Dead
Feed On Offer (kg/ha):	2,450	1,050
Digestibility (%):	48.6	47.3
Equivalent to		
Metabolizable Energy (MJ/kg):	6.7	6.5
Sheep Intake (MJ/day):	6.8	
50kg dry, Condition score 3		
Crude Protein (%):	10.2	8.2
Pasture Height (cm):	8	12
Ground Cover (%):	80	
Legume (%):	10	
State:	NSW	
Location:	Central West	
Climate Zone:	Cool Temperate	
Major Species:	Red grass	

Comments	Tropical pasture used in GrazFeed assessment
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

123 Harrison 050512 High FOO




	Green	Dead
Feed On Offer (kg/ha):	2,190	2,667
Digestibility (%):	66	36
Equivalent to		
Metabolizable Energy (MJ/kg):	9.7	4.5
Sheep Intake (MJ/day):	14	
50kg dry, Condition score 3		
Crude Protein (%):	14	4
Pasture Height (cm):	20	13
Ground Cover (%):	60	
Legume (%):	15	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Prairie grass	

Comments	
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124 Harrison 050512 Medium FOO




	Green	Dead
Feed On Offer (kg/ha):	1,714	762
Digestibility (%):	65.9	35.7
Equivalent to		
Metabolizable Energy (MJ/kg):	9.7	4.5
Sheep Intake (MJ/day):	14.3	
50kg dry, Condition score 3		
Crude Protein (%):	13.7	3.5
Pasture Height (cm):	10	4
Ground Cover (%):	100	
Legume (%):	70	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	White clover	

Comments	
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

125 Harrison 120512 Very Low FOO




	Green	Dead
Feed On Offer (kg/ha):	667	762
Digestibility (%):	73	38
Equivalent to		
Metabolizable Energy (MJ/kg):	11	5
Sheep Intake (MJ/day):	8.1	
50kg dry, Condition score 3		
Crude Protein (%):	15	7
Pasture Height (cm):	2	1
Ground Cover (%):	50	
Legume (%):	50	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Prairie grass	

Comments	
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126 Harrison 120512 Low FOO



	Green	Dead
Feed On Offer (kg/ha):	857	667
Digestibility (%):	73	38
Equivalent to		
Metabolizable Energy (MJ/kg):	11	5
Sheep Intake (MJ/day):	14	
50kg dry, Condition score 3		
Crude Protein (%):	15	7.4
Pasture Height (cm):	6.5	4
Ground Cover (%):	90	
Legume (%):	20	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Prairie grass	


Comments	2nd year pasture - therefore expect higher bare ground%'s as the pastures still establishing.
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Lifetime Ewe Management - FOO Library Results

NSW Autumn

127 Harrison 050512 Very High FOO




	Green	Dead
Feed On Offer (kg/ha):	7,048	7,048
Digestibility (%):	43.7	37.7
Equivalent to		
Metabolizable Energy (MJ/kg):	5.9	4.9
Sheep Intake (MJ/day):	6.9	
50kg dry, Condition score 3		
Crude Protein (%):	3.7	3.1
Pasture Height (cm):	35	45
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Spear grass	

Comments	Tropical pasture used in GrazFeed
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128 Harrison 120512 Low FOO




	Green	Dead
Feed On Offer (kg/ha):	952	1,048
Digestibility (%):	58.1	42.7
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	5.7
Sheep Intake (MJ/day):	6.6	
50kg dry, Condition score 3		
Crude Protein (%):	9.8	6
Pasture Height (cm):	1	1
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Couch grass	

Comments	Paddock grazed recently. Low pasture quality and low stocking numbers caused uneven grazing. Tropical pasture used in GrazFeed.
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

129 Harriosn 050512 Medium FOO




	Green	Dead
Feed On Offer (kg/ha):	1,048	1,048
Digestibility (%):	58.1	42.7
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	5.7
Sheep Intake (MJ/day):	10.2	
50kg dry, Condition score 3		
Crude Protein (%):	9.8	6
Pasture Height (cm):	6	5
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Spear grass	

Comments	Tropical pasture used in GrazFeed
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130 Harrison 050512 High FOO

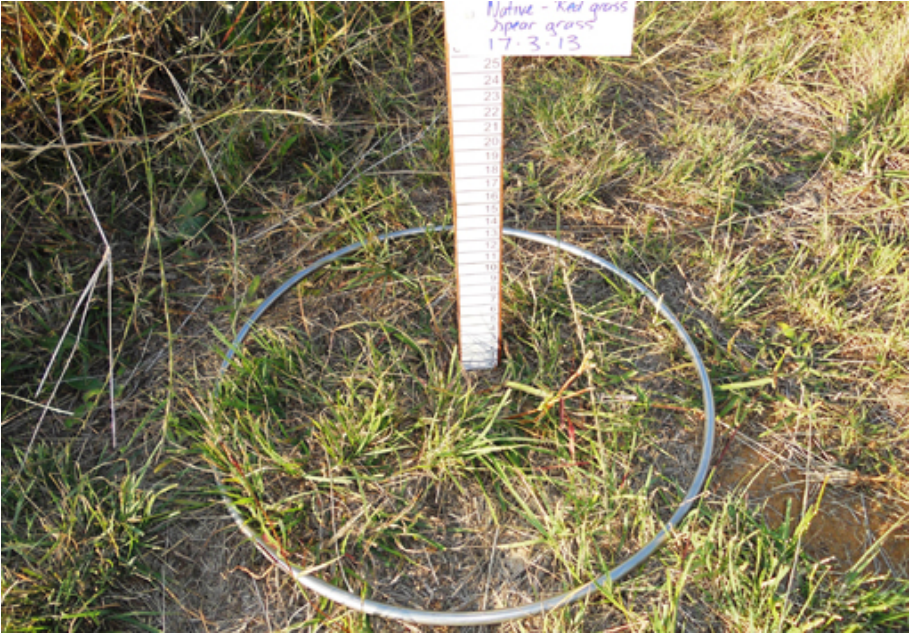



	Green	Dead
Feed On Offer (kg/ha):	1,905	2,667
Digestibility (%):	43.7	37.7
Equivalent to		
Metabolizable Energy (MJ/kg):	5.9	4.9
Sheep Intake (MJ/day):	6.8	
50kg dry, Condition score 3		
Crude Protein (%):	3.7	3.1
Pasture Height (cm):	12	16
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Spear grass	

Comments	Tropical pasture used in GrazFeed
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

339lhRG170313LowFOO




	Green	Dead
Feed On Offer (kg/ha):	950	650
Digestibility (%):	59	38
Equivalent to		
Metabolizable Energy (MJ/kg):	8.6	4.9
Sheep Intake (MJ/day):	8.2	
50kg dry, Condition score 3		
Crude Protein (%):	14	4.1
Pasture Height (cm):	3	2
Ground Cover (%):	60	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Red grass	

Comments	
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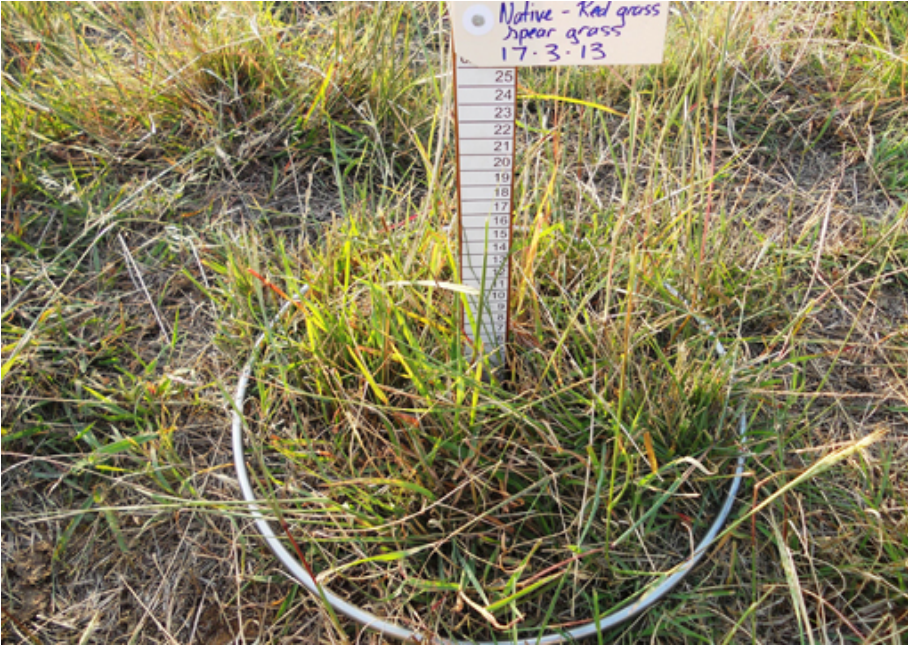
340lhRG180313MediumFOO




	Green	Dead
Feed On Offer (kg/ha):	1,700	500
Digestibility (%):	59	38
Equivalent to		
Metabolizable Energy (MJ/kg):	8.6	4.9
Sheep Intake (MJ/day):	10.3	
50kg dry, Condition score 3		
Crude Protein (%):	14	4.1
Pasture Height (cm):	4	1.5
Ground Cover (%):	80	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Red grass	

Comments	
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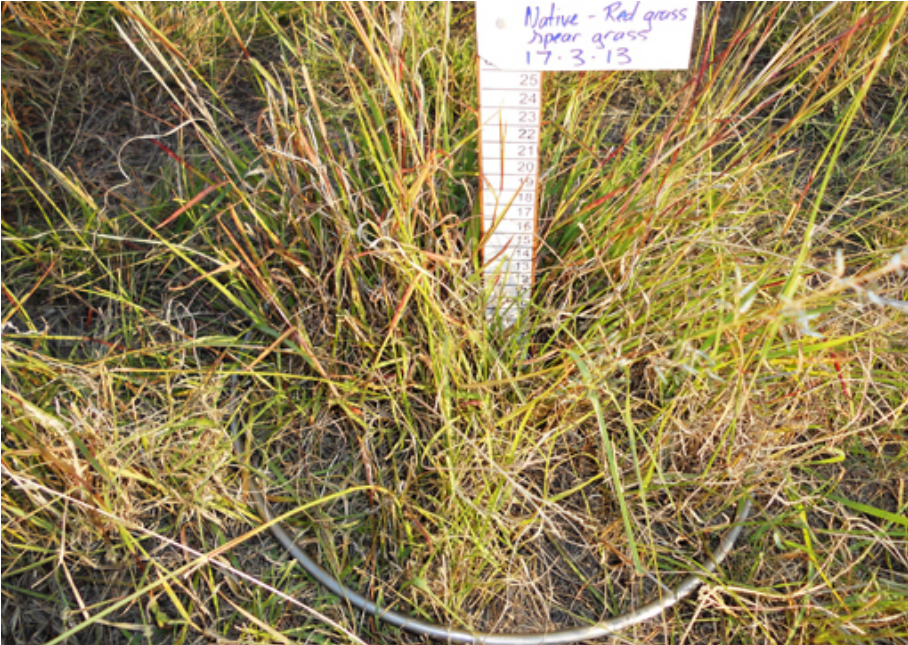
341lhRG170313HighFOO




	Green	Dead
Feed On Offer (kg/ha):	3,700	2,200
Digestibility (%):	50	37
Equivalent to		
Metabolizable Energy (MJ/kg):	6.7	4.7
Sheep Intake (MJ/day):	4.5	
50kg dry, Condition score 3		
Crude Protein (%):	7	4.1
Pasture Height (cm):	10	5
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Red grass	

Comments	
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342lhRG170313VeryHighFOO




	Green	Dead
Feed On Offer (kg/ha):	4,350	5,200
Digestibility (%):	50	37
Equivalent to		
Metabolizable Energy (MJ/kg):	6.7	4.7
Sheep Intake (MJ/day):	4.6	
50kg dry, Condition score 3		
Crude Protein (%):	7	4.1
Pasture Height (cm):	15	8
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Red grass	

Comments	
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

343lhPG170313LowFOO




	Green	Dead
Feed On Offer (kg/ha):	1,250	300
Digestibility (%):	63	54
Equivalent to		
Metabolizable Energy (MJ/kg):	9.1	7.6
Sheep Intake (MJ/day):	11.7	
50kg dry, Condition score 3		
Crude Protein (%):	10	3.2
Pasture Height (cm):	8	3
Ground Cover (%):	70	
Legume (%):	5	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Prairie grass	

Comments	
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344lhPG170313HighFOO




	Green	Dead
Feed On Offer (kg/ha):	3,050	650
Digestibility (%):	64	46
Equivalent to		
Metabolizable Energy (MJ/kg):	9.4	6.3
Sheep Intake (MJ/day):	12.9	
50kg dry, Condition score 3		
Crude Protein (%):	17	5
Pasture Height (cm):	10	14
Ground Cover (%):	100	
Legume (%):	5	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Prairie grass	

Comments	
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

345lhPG170313VeryHighFOO




	Green	Dead
Feed On Offer (kg/ha):	9,600	750
Digestibility (%):	64	46
Equivalent to		
Metabolizable Energy (MJ/kg):	9.4	6.3
Sheep Intake (MJ/day):	16.6	
50kg dry, Condition score 3		
Crude Protein (%):	17	5
Pasture Height (cm):	25	6
Ground Cover (%):	100	
Legume (%):	60	
State:	NSW	
Location:	Central West	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Lucerne	

Comments	This paddock has been heavily grazed by sheep and cattle for the previous month.
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412SBDLRIMG0027




	Green	Dead
Feed On Offer (kg/ha):	710	3,689
Digestibility (%):	55	35
Equivalent to		
Metabolizable Energy (MJ/kg):	7.8	4.4
Sheep Intake (MJ/day):	8.1	
50kg dry, Condition score 3		
Crude Protein (%):	6.8	3.6
Pasture Height (cm):	3	2
Ground Cover (%):	95	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Digit grass	

Comments	Dry autumn; sampled ~2 wks after grazing; irrigated to encourage growth
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

413SBDMRIMG0028




	Green	Dead
Feed On Offer (kg/ha):	1,000	3,032
Digestibility (%):	55	35
Equivalent to		
Metabolizable Energy (MJ/kg):	7.8	4.4
Sheep Intake (MJ/day):	9.1	
50kg dry, Condition score 3		
Crude Protein (%):	6.8	3.6
Pasture Height (cm):	5	4
Ground Cover (%):	95	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Digit grass	

Comments	Dry autumn; sampled ~2 wks after grazing; irrigated to encourage growth
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414SBDHRIMG0030




	Green	Dead
Feed On Offer (kg/ha):	1,430	3,729
Digestibility (%):	54	35
Equivalent to		
Metabolizable Energy (MJ/kg):	7.6	4.4
Sheep Intake (MJ/day):	9.1	
50kg dry, Condition score 3		
Crude Protein (%):	7.3	3.0
Pasture Height (cm):	6	6
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Digit grass	

Comments	Dry autumn; sampled ~2 wks after grazing; irrigated to encourage growth
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

415SBDVHRIMG0008




	Green	Dead
Feed On Offer (kg/ha):	1,820	5,139
Digestibility (%):	54	35
Equivalent to		
Metabolizable Energy (MJ/kg):	7.6	4.4
Sheep Intake (MJ/day):	10.0	
50kg dry, Condition score 3		
Crude Protein (%):	7.3	3.0
Pasture Height (cm):	10	8
Ground Cover (%):	100	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Digit grass	

Comments	Dry autumn; sampled ~3 wks after grazing; irrigated to encourage growth
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416SBNLRIMG0019




	Green	Dead
Feed On Offer (kg/ha):	690	751
Digestibility (%):	57	40
Equivalent to		
Metabolizable Energy (MJ/kg):	8.2	5.3
Sheep Intake (MJ/day):	8.4	
50kg dry, Condition score 3		
Crude Protein (%):	6.6	6.2
Pasture Height (cm):	4	3
Ground Cover (%):	85	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Redgrass	

Comments	Dry autumn
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

417SBNMRIMG0040




	Green	Dead
Feed On Offer (kg/ha):	1,330	2,585
Digestibility (%):	57	40
Equivalent to		
Metabolizable Energy (MJ/kg):	8.2	5.3
Sheep Intake (MJ/day):	11.1	
50kg dry, Condition score 3		
Crude Protein (%):	6.6	6.2
Pasture Height (cm):	10	15
Ground Cover (%):	95	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Blue grass	

Comments	Dry autumn
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418SBNHRIMG0038




	Green	Dead
Feed On Offer (kg/ha):	1,680	1,898
Digestibility (%):	53	38
Equivalent to		
Metabolizable Energy (MJ/kg):	7.5	4.9
Sheep Intake (MJ/day):	8.3	
50kg dry, Condition score 3		
Crude Protein (%):	6.6	4.4
Pasture Height (cm):	5	10
Ground Cover (%):	85	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Blue grass	

Comments	Dry autumn
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Lifetime Ewe Management - FOO Library Results
NSW Autumn

419SBNVHRIMG0046



	Green	Dead
Feed On Offer (kg/ha):	2,220	5,718
Digestibility (%):	53	38
Equivalent to		
Metabolizable Energy (MJ/kg):	7.5	4.9
Sheep Intake (MJ/day):	10.1	
50kg dry, Condition score 3		
Crude Protein (%):	6.6	4.4
Pasture Height (cm):	15	15
Ground Cover (%):	95	
Legume (%):	0	
State:	NSW	
Location:	North-West Slopes	
Climate Zone:	Mild/Warm Temperate	
Major Species:	Blue grass	

Comments	Dry autumn
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