

# Feed on Offer Photo Library

Use in conjunction with the Lifetime Ewe Management feed budgeting tables available at [lifetimewool.com.au](http://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](http://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](http://www.wool.com)

RIST Centre: [www.rist.com.au](http://www.rist.com.au)

Lifetime Ewe Management: [www.rist.com.au/lifetime\\_ewe\\_management](http://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  
SA all photos

101TP Morgan May 2012




	Green	Dead
Feed On Offer (kg/ha):	50	2,100
Digestibility (%):	56	47
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	6.4
Sheep Intake (MJ/day):	8.2	
50kg dry, Condition score 3		
Crude Protein (%):	8.7	4.3
Pasture Height (cm):	1	16
Ground Cover (%):	60	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Some herbage 2 yrs old, many green leaves partly dead, MJ/d value due to tall height for FOO
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102TP Morgan May 2012




	Green	Dead
Feed On Offer (kg/ha):	0	300
Digestibility (%):	NA	47
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.4
Sheep Intake (MJ/day):	5.2	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.3
Pasture Height (cm):	0	6
Ground Cover (%):	20	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Intake higher than expected due to pasture height for FOO value
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Lifetime Ewe Management - FOO Library Results  
SA all photos

103TP Morgan May 2012




	Green	Dead
Feed On Offer (kg/ha):	10	1,000
Digestibility (%):	56	47
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	6.4
Sheep Intake (MJ/day):	6.2	
50kg dry, Condition score 3		
Crude Protein (%):	8.7	4.3
Pasture Height (cm):	1	12
Ground Cover (%):	30	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Some herbage 2 yrs old, many green leaves partly dead, MJ/D value due to tall height for FOO
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104TP Morgan May 2012




	Green	Dead
Feed On Offer (kg/ha):	300	14,800
Digestibility (%):	56	47
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	6.4
Sheep Intake (MJ/day):	9.3	
50kg dry, Condition score 3		
Crude Protein (%):	8.7	4.3
Pasture Height (cm):	2	25
Ground Cover (%):	90	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Some herbage is 2 years growth, many green leaves partly dead
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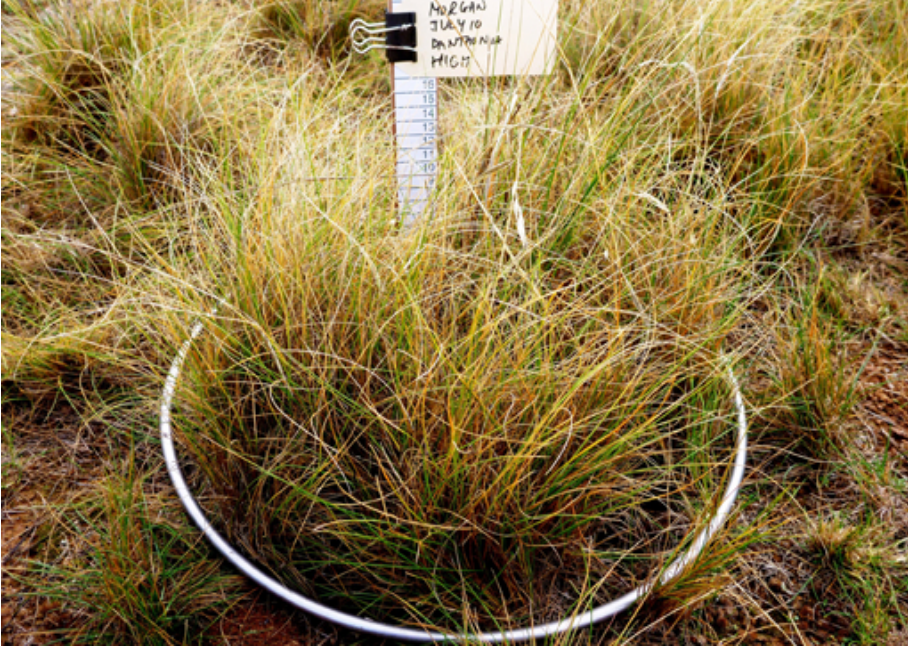
10TP-Morgan-July2012-danthonia




	Green	Dead
Feed On Offer (kg/ha):	1,200	1,800
Digestibility (%):	63	44
Equivalent to		
Metabolizable Energy (MJ/kg):	9.2	5.9
Sheep Intake (MJ/day):	10	
50kg dry, Condition score 3		
Crude Protein (%):	14	8.2
Pasture Height (cm):	5	8.0
Ground Cover (%):	80	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	More than 1 years growth
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11TP-Morgan-July2012-danthonia




	Green	Dead
Feed On Offer (kg/ha):	2,400	3,700
Digestibility (%):	63	45
Equivalent to		
Metabolizable Energy (MJ/kg):	9.2	6.1
Sheep Intake (MJ/day):	11	
50kg dry, Condition score 3		
Crude Protein (%):	14	7.9
Pasture Height (cm):	8	8.0
Ground Cover (%):	100	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	More than 1 years growth
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12TP-Morgan-July2012-spear




	Green	Dead
Feed On Offer (kg/ha):	150	200
Digestibility (%):	56	44
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	5.9
Sheep Intake (MJ/day):	7	
50kg dry, Condition score 3		
Crude Protein (%):	9	8.2
Pasture Height (cm):	5	5.0
Ground Cover (%):	30	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Feed test samples mainly from high FOO's, many "green" leaves dead half way down leaf
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13TP-Morgan-July-2012-spear




	Green	Dead
Feed On Offer (kg/ha):	700	800
Digestibility (%):	56	44
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	5.9
Sheep Intake (MJ/day):	8	
50kg dry, Condition score 3		
Crude Protein (%):	9	8.2
Pasture Height (cm):	8	8.0
Ground Cover (%):	60	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	
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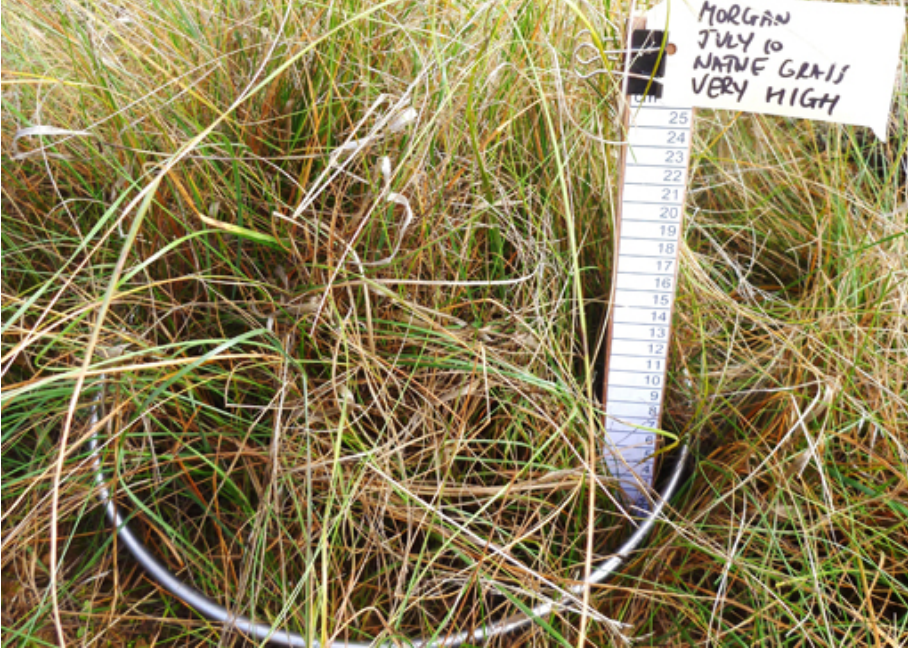
14TP-Morgan-July2012-spear




	Green	Dead
Feed On Offer (kg/ha):	2,000	2,100
Digestibility (%):	57	44
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	5.9
Sheep Intake (MJ/day):	10	
50kg dry, Condition score 3		
Crude Protein (%):	17	8.2
Pasture Height (cm):	15	15.0
Ground Cover (%):	70	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	More than 1 years growth
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15TP-Morgan-July2012-spear




	Green	Dead
Feed On Offer (kg/ha):	5,400	5,800
Digestibility (%):	57	44
Equivalent to		
Metabolizable Energy (MJ/kg):	8.1	5.9
Sheep Intake (MJ/day):	11	
50kg dry, Condition score 3		
Crude Protein (%):	17	8.2
Pasture Height (cm):	20	25.0
Ground Cover (%):	100	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	More than 1 years growth
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215-Morgan-August2012-danthonia-high




	Green	Dead
Feed On Offer (kg/ha):	1,270	3,800
Digestibility (%):	58	48
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	6.7
Sheep Intake (MJ/day):	10.3	
50kg dry, Condition score 3		
Crude Protein (%):	8	5
Pasture Height (cm):	12	12
Ground Cover (%):	90	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	
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216-Morgan-August2012-danthonia-low




	Green	Dead
Feed On Offer (kg/ha):	170	270
Digestibility (%):	58	48
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	6.7
Sheep Intake (MJ/day):	5.7	
50kg dry, Condition score 3		
Crude Protein (%):	8	5
Pasture Height (cm):	3	2
Ground Cover (%):	60	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	
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217-Morgan-August2012-danthonia-medium




	Green	Dead
Feed On Offer (kg/ha):	480	1,100
Digestibility (%):	58	48
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	6.7
Sheep Intake (MJ/day):	7.7	
50kg dry, Condition score 3		
Crude Protein (%):	8	5
Pasture Height (cm):	4	5
Ground Cover (%):	70	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	
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218-Morgan-August2012-spear-grass-high




	Green	Dead
Feed On Offer (kg/ha):	850	3,400
Digestibility (%):	62	43
Equivalent to		
Metabolizable Energy (MJ/kg):	9.1	5.8
Sheep Intake (MJ/day):	11.0	
50kg dry, Condition score 3		
Crude Protein (%):	9	7
Pasture Height (cm):	10	10
Ground Cover (%):	50	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Sheep grazed out danthonia
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219-Morgan-August2012-spear-grass-low




	Green	Dead
Feed On Offer (kg/ha):	250	380
Digestibility (%):	58	43
Equivalent to		
Metabolizable Energy (MJ/kg):	8.4	5.8
Sheep Intake (MJ/day):	4.4	
50kg dry, Condition score 3		
Crude Protein (%):	7	7
Pasture Height (cm):	2	2
Ground Cover (%):	30	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Sheep grazed out danthonia
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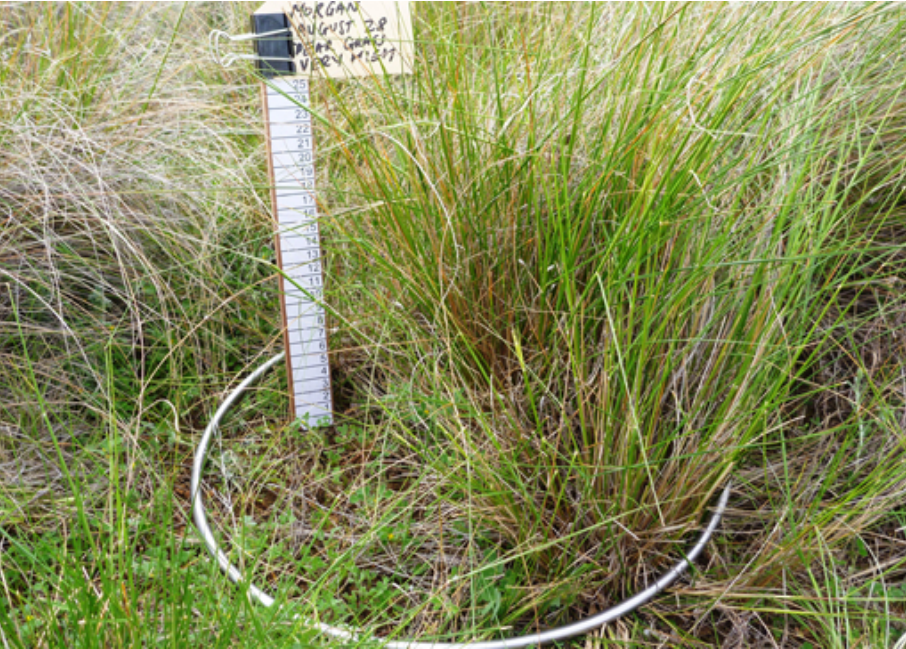
220-Morgan-August2012-spear-grass-medium2




	Green	Dead
Feed On Offer (kg/ha):	500	2,500
Digestibility (%):	62	43
Equivalent to		
Metabolizable Energy (MJ/kg):	9.1	5.8
Sheep Intake (MJ/day):	10.8	
50kg dry, Condition score 3		
Crude Protein (%):	9	7
Pasture Height (cm):	8	8
Ground Cover (%):	50	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Sheep grazed out danthonia
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221-Morgan-August2012-spear-grass-veryhigh




	Green	Dead
Feed On Offer (kg/ha):	1,600	4,900
Digestibility (%):	62	43
Equivalent to		
Metabolizable Energy (MJ/kg):	9.1	5.8
Sheep Intake (MJ/day):	11.1	
50kg dry, Condition score 3		
Crude Protein (%):	9	7
Pasture Height (cm):	15	15
Ground Cover (%):	60	
Legume (%):	1	
State:	SA	
Location:	Riverlands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	Sheep grazed out danthonia
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386TPMorganFebruary2013Danthoniahigh




	Green	Dead
Feed On Offer (kg/ha):	0	4,600
Digestibility (%):	NA	45
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	6.8	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.7
Pasture Height (cm):	0	10
Ground Cover (%):	100	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	No useful rainfall since July 2012
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387tpMorganFebruary2013Danthonialow




	Green	Dead
Feed On Offer (kg/ha):	0	2,800
Digestibility (%):	NA	45
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	4.3	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.7
Pasture Height (cm):	0	2
Ground Cover (%):	80	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	No useful rainfall since July 2012
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388tpMorganFebruary2013Danthoniamedium




	Green	Dead
Feed On Offer (kg/ha):	0	2,900
Digestibility (%):	NA	45
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	5.9	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.7
Pasture Height (cm):	0	6
Ground Cover (%):	80	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	No useful rainfall since July 2012
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389tpMorganFebruary2013Spear-grasshigh




	Green	Dead
Feed On Offer (kg/ha):	0	3,500
Digestibility (%):	NA	44
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6
Sheep Intake (MJ/day):	7	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.6
Pasture Height (cm):	0	15
Ground Cover (%):	90	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	No useful rainfall since July 2012
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390tpMorganFebruary2013Spear-grasslow




	Green	Dead
Feed On Offer (kg/ha):	0	800
Digestibility (%):	NA	44
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.9
Sheep Intake (MJ/day):	3.8	
50kg dry, Condition score 3		
Crude Protein (%):	NA	6.9
Pasture Height (cm):	0	3
Ground Cover (%):	20	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	No useful rainfall since July 2012
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Lifetime Ewe Management - FOO Library Results  
SA all photos

391tpMorganFebruary2013Spear-grassmedium




	Green	Dead
Feed On Offer (kg/ha):	0	1,800
Digestibility (%):	NA	44
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6
Sheep Intake (MJ/day):	5.8	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.6
Pasture Height (cm):	0	8
Ground Cover (%):	40	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	

Comments	No useful rainfall since July 2012
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392tpMorganFebruary2013Spear-grassveryhigh



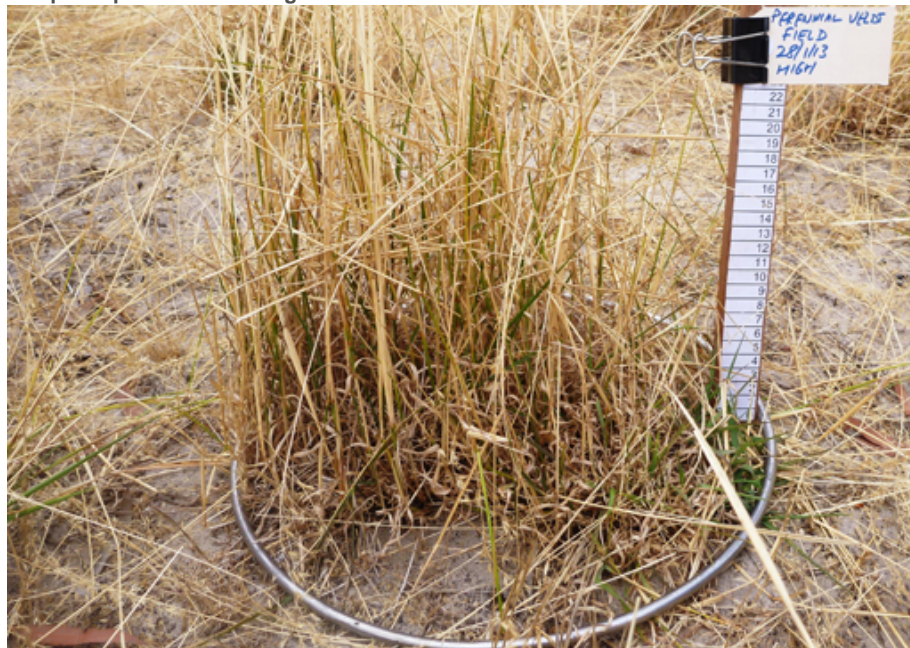
	Green	Dead
Feed On Offer (kg/ha):	0	10,200
Digestibility (%):	NA	44
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6
Sheep Intake (MJ/day):	7.7	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.6
Pasture Height (cm):	0	20
Ground Cover (%):	100	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Spear grass	


Comments	No useful rainfall since July 2012
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# Lifetime Ewe Management - FOO Library Results

SA all photos

393tpFieldperennial-veldthigh2




	Green	Dead
Feed On Offer (kg/ha):	600	5,300
Digestibility (%):	58	51
Equivalent to		
Metabolizable Energy (MJ/kg):	8.3	7.1
Sheep Intake (MJ/day):	11.1	
50kg dry, Condition score 3		
Crude Protein (%):	6	3.3
Pasture Height (cm):	10	30
Ground Cover (%):	80	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	

Comments	No significant rainfall since early September 2012
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394tpFieldperennial-veldtlow2



	Green	Dead
Feed On Offer (kg/ha):	180	1,100
Digestibility (%):	58	51
Equivalent to		
Metabolizable Energy (MJ/kg):	8.3	7.1
Sheep Intake (MJ/day):	8.7	
50kg dry, Condition score 3		
Crude Protein (%):	6	3.3
Pasture Height (cm):	4	6
Ground Cover (%):	30	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	


Comments	No significant rainfall since early September 2012
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# Lifetime Ewe Management - FOO Library Results

## SA all photos

395tpFieldperennial-veldtmedium2




	Green	Dead
Feed On Offer (kg/ha):	430	1,600
Digestibility (%):	58	51
Equivalent to		
Metabolizable Energy (MJ/kg):	8.3	7.1
Sheep Intake (MJ/day):	9.8	
50kg dry, Condition score 3		
Crude Protein (%):	6	3.3
Pasture Height (cm):	6	15
Ground Cover (%):	50	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	

Comments	No significant rainfall since early September 2012
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513tpFieldperennialveldtlowJune2013



	Green	Dead
Feed On Offer (kg/ha):	70	40
Digestibility (%):	76	36
Equivalent to		
Metabolizable Energy (MJ/kg):	11.4	4.6
Sheep Intake (MJ/day):	7.1	
50kg dry, Condition score 3		
Crude Protein (%):	31	5.3
Pasture Height (cm):	2	1
Ground Cover (%):	7	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	


Comments	Fresh growth after long dry period. Dead close to ground & though not as much as appears in photograph represents 30- 60% of herbage
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# Lifetime Ewe Management - FOO Library Results

SA all photos

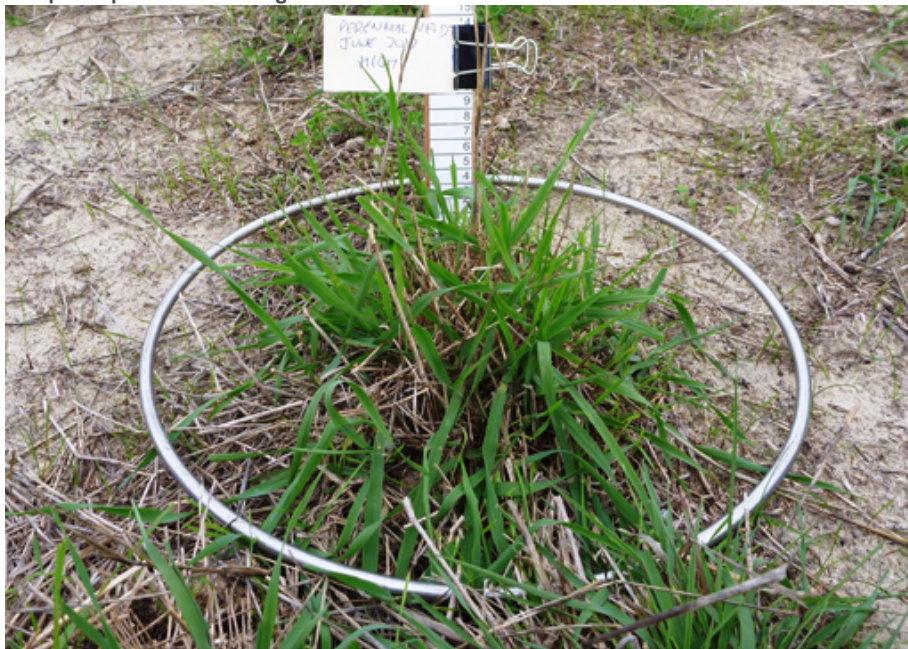
514tpFieldperennialveldtmediumJune2013




	Green	Dead
Feed On Offer (kg/ha):	100	70
Digestibility (%):	76	36
Equivalent to		
Metabolizable Energy (MJ/kg):	11.4	4.6
Sheep Intake (MJ/day):	10.8	
50kg dry, Condition score 3		
Crude Protein (%):	31	5.3
Pasture Height (cm):	4	2
Ground Cover (%):	15	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	

Comments	Fresh growth after long dry period. Dead close to ground & though not as much as appears in photograph represents 30- 60% of herbage
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515tpFieldperennialveldthighJune2013




	Green	Dead
Feed On Offer (kg/ha):	160	240
Digestibility (%):	76	36
Equivalent to		
Metabolizable Energy (MJ/kg):	11.4	4.6
Sheep Intake (MJ/day):	12	
50kg dry, Condition score 3		
Crude Protein (%):	31	5.3
Pasture Height (cm):	5	2
Ground Cover (%):	40	
Legume (%):	0	
State:	SA	
Location:	Upper South East	
Climate Zone:	Mediterranean	
Major Species:	Perennial veldt grass	

Comments	Fresh growth after long dry period. Dead close to ground & though not as much as appears in photograph represents 30- 60% of herbage
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9TP-Morgan-July2012-danthonia



	Green	Dead
Feed On Offer (kg/ha):	330	500
Digestibility (%):	63	44
Equivalent to		
Metabolizable Energy (MJ/kg):	9.2	5.9
Sheep Intake (MJ/day):	7	
50kg dry, Condition score 3		
Crude Protein (%):	14	8.2
Pasture Height (cm):	3	4.0
Ground Cover (%):	60	
Legume (%):	0	
State:	SA	
Location:	Murraylands	
Climate Zone:	Low Rainfall/Rangelands	
Major Species:	Wallaby grass	

Comments	
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