

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

WA Summer Annual pastures

355mhDLRZ190213stubble1000_1



	Green	Dead
Feed On Offer (kg/ha):	0	1,000
Digestibility (%): Equivalent to	NA	30
Metabolizable Energy (MJ/kg):	NA	2.5
Sheep Intake (MJ/day): 50kg dry, Condition score 3	0.1	
Crude Protein (%):	NA	0.7
Pasture Height (cm):	NA	1
Ground Cover (%):	20	
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Wheat stubble	

Comments	
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356mhDLRZ190213stubble4000_2



	Green	Dead
Feed On Offer (kg/ha):	0	4,000
Digestibility (%): Equivalent to	NA	30
Metabolizable Energy (MJ/kg):	NA	3.4
Sheep Intake (MJ/day): 50kg dry, Condition score 3	0	
Crude Protein (%):	NA	0.1
Pasture Height (cm):	NA	4
Ground Cover (%):	95	
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Wheat stubble	

Comments	
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

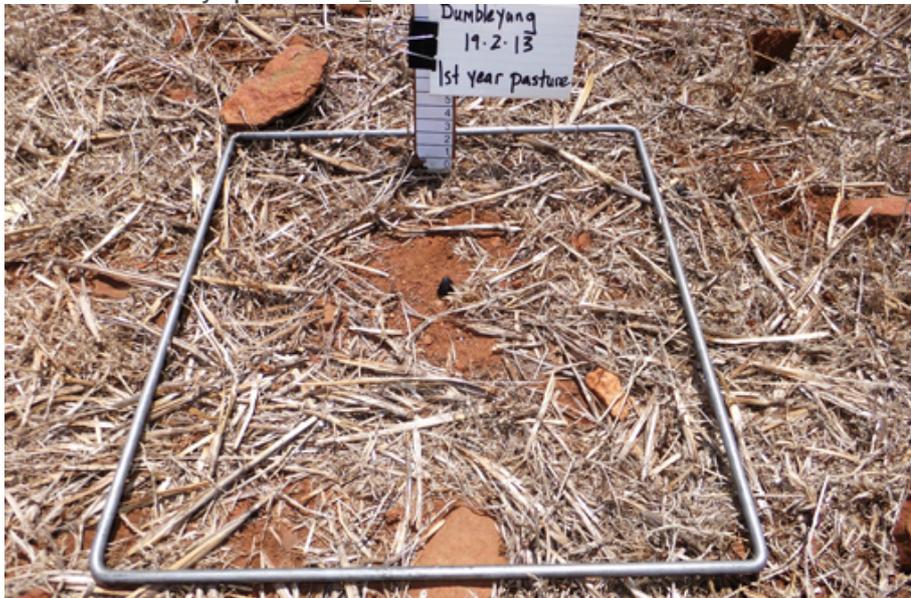
357mhDLRZ190213stubble7000_4



	Green	Dead
Feed On Offer (kg/ha):	0	7,000
Digestibility (%):	NA	32
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	3.8
Sheep Intake (MJ/day):	0.7	
50kg dry, Condition score 3		
Crude Protein (%):	NA	0.8
Pasture Height (cm):	NA	5
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Wheat stubble	

Comments

358mhDLRZ190213yr1pasture1500_2



	Green	Dead
Feed On Offer (kg/ha):	0	1,500
Digestibility (%):	NA	30
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	2.8
Sheep Intake (MJ/day):	0.4	
50kg dry, Condition score 3		
Crude Protein (%):	NA	3
Pasture Height (cm):	NA	1
Ground Cover (%):		90
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments
1st yr pasture after wheat

Lifetime Ewe Management - FOO Library Results
WA Summer Annual pastures

359mhDLRZ190213yr1pasture2600_2



	Green	Dead
Feed On Offer (kg/ha):	0	2,600
Digestibility (%):	NA	30
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	3.4
Sheep Intake (MJ/day):	0.5	
50kg dry, Condition score 3		
Crude Protein (%):	NA	3
Pasture Height (cm):	NA	1.5
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	1st yr pasture after wheat
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360mhMtBHRZ080213clover1000_1



	Green	Dead
Feed On Offer (kg/ha):	0	1,000
Digestibility (%):	NA	35
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	4.3
Sheep Intake (MJ/day):	0.9	
50kg dry, Condition score 3		
Crude Protein (%):	NA	2
Pasture Height (cm):	NA	1.5
Ground Cover (%):		95
Legume (%):		100
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Sub Clover	

Comments	Clover burr from separated and analysed
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Lifetime Ewe Management - FOO Library Results
WA Summer Annual pastures

361mhMtBHRZ080213clover1300_2



	Green	Dead
Feed On Offer (kg/ha):	0	1,310
Digestibility (%):	NA	35
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	4.5
Sheep Intake (MJ/day):	1.4	
50kg dry, Condition score 3		
Crude Protein (%):	NA	7
Pasture Height (cm):	NA	1.5
Ground Cover (%):		100
Legume (%):		100
State:		WA
Location:		South Coast
Climate Zone:		Mediterranean
Major Species:		Sub Clover

Comments	Herbage bulked across low-high FOO samples
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362mhMtBHRZ080213ryegrass900_3



	Green	Dead
Feed On Offer (kg/ha):	0	900
Digestibility (%):	NA	43
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.7
Sheep Intake (MJ/day):	2.9	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4
Pasture Height (cm):	NA	2
Ground Cover (%):		100
Legume (%):		0
State:		WA
Location:		South Coast
Climate Zone:		Mediterranean
Major Species:		Annual ryegrass

Comments	
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

363mhMtBHRZ080213ryegrass1100_2



	Green	Dead
Feed On Offer (kg/ha):	0	1,100
Digestibility (%):	NA	43
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.7
Sheep Intake (MJ/day):	3.9	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4
Pasture Height (cm):	NA	3.5
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	

Comments	
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364mhMtBHRZ080213ryegrass 1400_2



	Green	Dead
Feed On Offer (kg/ha):	0	1,400
Digestibility (%):	NA	42
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.6
Sheep Intake (MJ/day):	4	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4
Pasture Height (cm):	NA	4
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	

Comments	
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

365mhMtBHRZ080213ryegrass3700_3



	Green	Dead
Feed On Offer (kg/ha):	0	3,700
Digestibility (%):	NA	43
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.8
Sheep Intake (MJ/day):	6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.4
Pasture Height (cm):	NA	10
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	

Comments	

366mhMtBHRZ080213ryegrass4300_4



	Green	Dead
Feed On Offer (kg/ha):	0	4,300
Digestibility (%):	NA	43
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.8
Sheep Intake (MJ/day):	6.9	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.4
Pasture Height (cm):	NA	18
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	

Comments	Herbage bulked across low-high FOO samples

Lifetime Ewe Management - FOO Library Results
WA Summer Annual pastures

367rb1stHFoophotos-LRZ-WA-270213004



	Green	Dead
Feed On Offer (kg/ha):	0	3,140
Digestibility (%):	NA	49
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.7
Sheep Intake (MJ/day):	5.6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	5.5
Pasture Height (cm):	NA	2
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	1st year pasture-grazed, previous years stubble removed before analysis
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368rbstMFoophotos-LRZ-WA-270213005



	Green	Dead
Feed On Offer (kg/ha):	0	2,140
Digestibility (%):	NA	45
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	3.6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	6.3
Pasture Height (cm):	NA	1.5
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	1st year pasture-grazed, previous years stubble removed before analysis
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

369rb1stLFoophotos-LRZ-WA-270213007



	Green	Dead
Feed On Offer (kg/ha):	0	1,140
Digestibility (%):	NA	43
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	5.7
Sheep Intake (MJ/day):	2.1	
50kg dry, Condition score 3		
Crude Protein (%):	NA	7.7
Pasture Height (cm):	NA	1
Ground Cover (%):		50
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments 1st year pasture-grazed, previous years stubble removed before analysis

370rb2ndHFoophotos-LRZ-WA-270213015



	Green	Dead
Feed On Offer (kg/ha):	0	2,710
Digestibility (%):	NA	49
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.7
Sheep Intake (MJ/day):	3	
50kg dry, Condition score 3		
Crude Protein (%):	NA	1.9
Pasture Height (cm):	NA	4
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments 2nd year pasture-grazed, previous years stubble removed before analysis

Lifetime Ewe Management - FOO Library Results
WA Summer Annual pastures

371rb2ndLFoophotos-LRZ-WA-270213020



	Green	Dead
Feed On Offer (kg/ha):	0	1,070
Digestibility (%):	NA	46
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.3
Sheep Intake (MJ/day):	3.1	
50kg dry, Condition score 3		
Crude Protein (%):	NA	4.2
Pasture Height (cm):	NA	1.5
Ground Cover (%):		60
Legume (%):		0
State:		WA
Location:		Great Southern
Climate Zone:		Mediterranean
Major Species:		Volunteer annuals

Comments	2nd year pasture-grazed, previous years stubble removed before analysis
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372rb2ndMFoophotos-LRZ-WA-270213019



	Green	Dead
Feed On Offer (kg/ha):	0	2,330
Digestibility (%):	NA	49
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.8
Sheep Intake (MJ/day):	2.3	
50kg dry, Condition score 3		
Crude Protein (%):	NA	1.9
Pasture Height (cm):	NA	2
Ground Cover (%):		90
Legume (%):		0
State:		WA
Location:		Great Southern
Climate Zone:		Mediterranean
Major Species:		Volunteer annuals

Comments	2nd year pasture-grazed, previous years stubble removed before analysis
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

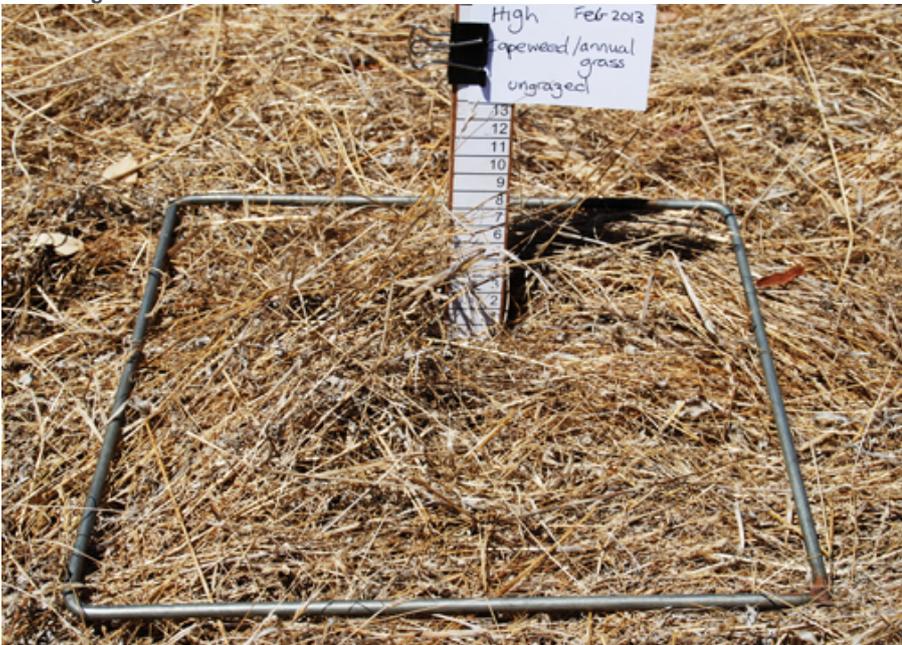
373rb2ndVHFoophotos-LRZ-WA-270213013



	Green	Dead
Feed On Offer (kg/ha):	0	2,590
Digestibility (%):	NA	48
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.7
Sheep Intake (MJ/day):	3.6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	2
Pasture Height (cm):	NA	6
Ground Cover (%):		100
Legume (%):		0
State:		WA
Location:		Great Southern
Climate Zone:		Mediterranean
Major Species:		Volunteer annuals

Comments	2nd year pasture-grazed, previous years stubble removed before analysis
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374mcHigh0202203-3200-2



	Green	Dead
Feed On Offer (kg/ha):	0	3,210
Digestibility (%):	NA	46
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	6.6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	6
Pasture Height (cm):	NA	7
Ground Cover (%):		100
Legume (%):		5
State:		WA
Location:		Great Southern
Climate Zone:		Mediterranean
Major Species:		Cape weed

Comments	Grazed, 2nd yr from crop
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Lifetime Ewe Management - FOO Library Results
WA Summer Annual pastures

375mc1stLow02022013-230-2



	Green	Dead
Feed On Offer (kg/ha):	0	230
Digestibility (%):	NA	55
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	7.9
Sheep Intake (MJ/day):	3.1	
50kg dry, Condition score 3		
Crude Protein (%):	NA	7.1
Pasture Height (cm):	NA	1
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	1st year pasture, stubble removed before testing
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376mcMed2nd020202013-1460-2



	Green	Dead
Feed On Offer (kg/ha):	0	1,430
Digestibility (%):	NA	48
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.6
Sheep Intake (MJ/day):	4.4	
50kg dry, Condition score 3		
Crude Protein (%):	NA	10.7
Pasture Height (cm):	NA	2
Ground Cover (%):	90	
Legume (%):	25	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub Clover	

Comments	Much clover seed left behind on ground
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

377mc2ndH-Med02022013-2210-1



	Green	Dead
Feed On Offer (kg/ha):	0	2,210
Digestibility (%):	NA	45
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	6.2
Sheep Intake (MJ/day):	5.1	
50kg dry, Condition score 3		
Crude Protein (%):	NA	2.5
Pasture Height (cm):	NA	12
Ground Cover (%):		100
Legume (%):		0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	2nd year pasture, stubble removed before testing
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378mc2ndMed02022013-2260-2



	Green	Dead
Feed On Offer (kg/ha):	0	2,260
Digestibility (%):	NA	56
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	8
Sheep Intake (MJ/day):	7.6	
50kg dry, Condition score 3		
Crude Protein (%):	NA	7.2
Pasture Height (cm):	NA	2
Ground Cover (%):		100
Legume (%):		50
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	Grazed, 2nd year from crop
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

379mc1stMed02022013-780-1



	Green	Dead
Feed On Offer (kg/ha):	0	780
Digestibility (%):	NA	53
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	7.5
Sheep Intake (MJ/day):	7.5	
50kg dry, Condition score 3		
Crude Protein (%):	NA	5.2
Pasture Height (cm):	NA	5
Ground Cover (%):		100
Legume (%):		5
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Volunteer annuals	

Comments	1st year pasture, stubble removed before testing
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380mc2ndMed02022013-1080-1



	Green	Dead
Feed On Offer (kg/ha):	0	1,080
Digestibility (%):	NA	51
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	7.1
Sheep Intake (MJ/day):	4.7	
50kg dry, Condition score 3		
Crude Protein (%):	NA	8.5
Pasture Height (cm):	NA	2
Ground Cover (%):		100
Legume (%):		5
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub Clover	

Comments	2nd year pasture, stubble removed before testing
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Lifetime Ewe Management - FOO Library Results

WA Summer Annual pastures

381mcGRLow02022013-900-1



	Green	Dead
Feed On Offer (kg/ha):	0	900
Digestibility (%):	NA	54
Equivalent to		
Metabolizable Energy (MJ/kg):	NA	7.7
Sheep Intake (MJ/day):	5.3	
50kg dry, Condition score 3		
Crude Protein (%):	NA	8.3
Pasture Height (cm):	NA	2
Ground Cover (%):		80
Legume (%):		5
State:		WA
Location:		Great Southern
Climate Zone:		Mediterranean
Major Species:		Barley grass

Comments	
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