

# 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  
WA Winter Photos

1500-FOObarleygrass-winter




	Green	Dead
Feed On Offer (kg/ha):	1,500	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day):	15	
50kg dry, Condition score 3		
Crude Protein (%):	27	NA
Pasture Height (cm):	4	NA
Ground Cover (%):	98	
Legume (%):	1	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	
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1500FOOryegrasswinter




	Green	Dead
Feed On Offer (kg/ha):	1,500	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day):	15	
50kg dry, Condition score 3		
Crude Protein (%):	27	NA
Pasture Height (cm):	5	NA
Ground Cover (%):	100	
Legume (%):	5	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	

Comments	
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1600FOOcloywint




	Green	Dead
Feed On Offer (kg/ha):	1,600	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day):	14.7	
50kg dry, Condition score 3		
Crude Protein (%):	27	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	100	
Legume (%):	99	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments	
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1700mixedwint



	Green	Dead
Feed On Offer (kg/ha):	1,700	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day):	14.8	
50kg dry, Condition score 3		
Crude Protein (%):	27	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	100	
Legume (%):	99	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	


Comments	
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Lifetime Ewe Management - FOO Library Results  
WA Winter Photos

1800fooclowwinter




	Green	Dead
Feed On Offer (kg/ha):	1,800	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day):	16	
50kg dry, Condition score 3		
Crude Protein (%):	27	NA
Pasture Height (cm):	3	NA
Ground Cover (%):	100	
Legume (%):	99	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments	
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24ED-Dobbe030712-3



	Green	Dead
Feed On Offer (kg/ha):	38	40
Digestibility (%):	75	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.3	7.6
Sheep Intake (MJ/day):	4.4	
50kg dry, Condition score 3		
Crude Protein (%):	26	10.1
Pasture Height (cm):	1	0.5
Ground Cover (%):	90	
Legume (%):	5	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	


Comments	Frost effected tips of leaves
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Lifetime Ewe Management - FOO Library Results  
WA Winter Photos

25ED-Dobbe030712




	Green	Dead
Feed On Offer (kg/ha):	171	60
Digestibility (%):	75	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.3	7.6
Sheep Intake (MJ/day):	9	
50kg dry, Condition score 3		
Crude Protein (%):	26	10.1
Pasture Height (cm):	2	1.0
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	Frost effected tips of leaves
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26ED-Dobbe-030712-2



	Green	Dead
Feed On Offer (kg/ha):	266	230
Digestibility (%):	75	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.3	7.6
Sheep Intake (MJ/day):	9.0	
50kg dry, Condition score 3		
Crude Protein (%):	26	10.1
Pasture Height (cm):	2.5	1.0
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	


Comments	Frost effected tips of leaves
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Lifetime Ewe Management - FOO Library Results  
WA Winter Photos

27ED-Dobbe030712




	Green	Dead
Feed On Offer (kg/ha):	285	30
Digestibility (%):	75	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.3	7.6
Sheep Intake (MJ/day):	13.1	
50kg dry, Condition score 3		
Crude Protein (%):	26	10.1
Pasture Height (cm):	3.5	1.0
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	Frost effected tips of leaves
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28ED-Dobbe020712-2




	Green	Dead
Feed On Offer (kg/ha):	665	170
Digestibility (%):	71	54
Equivalent to		
Metabolizable Energy (MJ/kg):	10.5	7.7
Sheep Intake (MJ/day):	11	
50kg dry, Condition score 3		
Crude Protein (%):	22	9.8
Pasture Height (cm):	2.5	1.0
Ground Cover (%):	90	
Legume (%):	10	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	
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29ED-Dobbe020712




	Green	Dead
Feed On Offer (kg/ha):	960	90
Digestibility (%):	71	54
Equivalent to		
Metabolizable Energy (MJ/kg):	10.5	7.7
Sheep Intake (MJ/day):	12.6	
50kg dry, Condition score 3		
Crude Protein (%):	22	9.8
Pasture Height (cm):	3.5	1.0
Ground Cover (%):	100	
Legume (%):	50	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	
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30ED-Dobbe020712-1




	Green	Dead
Feed On Offer (kg/ha):	1,216	190
Digestibility (%):	74	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.2	7.7
Sheep Intake (MJ/day):	12.9	
50kg dry, Condition score 3		
Crude Protein (%):	22	9.8
Pasture Height (cm):	5	1.0
Ground Cover (%):	100	
Legume (%):	50	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	
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31ED-Dobbe020712-3




	Green	Dead
Feed On Offer (kg/ha):	1,454	330
Digestibility (%):	74	54
Equivalent to		
Metabolizable Energy (MJ/kg):	11.2	7.7
Sheep Intake (MJ/day):	13.2	
50kg dry, Condition score 3		
Crude Protein (%):	22	9.8
Pasture Height (cm):	7	1.0
Ground Cover (%):	100	
Legume (%):	20	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Kikuyu	

Comments	
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32ED-Dobbe050712-2



	Green	Dead
Feed On Offer (kg/ha):	143	20
Digestibility (%):	80	30
Equivalent to		
Metabolizable Energy (MJ/kg):	12.1	3.5
Sheep Intake (MJ/day):	12	
50kg dry, Condition score 3		
Crude Protein (%):	31	8.0
Pasture Height (cm):	2	1.0
Ground Cover (%):	40	
Legume (%):	70	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Lucerne	


Comments	
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Lifetime Ewe Management - FOO Library Results  
WA Winter Photos

33ED-Dobbe-050712-3




	Green	Dead
Feed On Offer (kg/ha):	940	50
Digestibility (%):	80	30
Equivalent to		
Metabolizable Energy (MJ/kg):	12.1	3.5
Sheep Intake (MJ/day):	17	
50kg dry, Condition score 3		
Crude Protein (%):	31	8.0
Pasture Height (cm):	6	1.0
Ground Cover (%):	70	
Legume (%):	95	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Lucerne	

Comments	
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34ED-Dobbe-050712-1




	Green	Dead
Feed On Offer (kg/ha):	1,815	1,110
Digestibility (%):	81	30
Equivalent to		
Metabolizable Energy (MJ/kg):	12.2	3.5
Sheep Intake (MJ/day):	17	
50kg dry, Condition score 3		
Crude Protein (%):	28	8.0
Pasture Height (cm):	8	8.0
Ground Cover (%):	80	
Legume (%):	100	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Lucerne	

Comments	High Dead FOO due to harvest for seed in previous season
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35ED-Dobbe-050712




	Green	Dead
Feed On Offer (kg/ha):	2,100	170
Digestibility (%):	81	30
Equivalent to		
Metabolizable Energy (MJ/kg):	12.2	3.5
Sheep Intake (MJ/day):	19	
50kg dry, Condition score 3		
Crude Protein (%):	28	8.0
Pasture Height (cm):	21	1.0
Ground Cover (%):	80	
Legume (%):	95	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Lucerne	

Comments	
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516RBLLRZ-Corrigin-040713-003



	Green	Dead
Feed On Offer (kg/ha):	710	0
Digestibility (%):	77	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day):	9.3	
50kg dry, Condition score 3		
Crude Protein (%):	26	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	40	
Legume (%):	80	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Burr medic	

Comments	Moisture stressed, grasses starting to die, 1st year pasture after crop
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# Lifetime Ewe Management - FOO Library Results

## WA Winter Photos

517RBMLRZ-Corrigin-040713-009




	Green	Dead
Feed On Offer (kg/ha):	1,690	0
Digestibility (%):	72	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	10.8	NA
Sheep Intake (MJ/day):	12.8	
50kg dry, Condition score 3		
Crude Protein (%):	24	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	70	
Legume (%):	80	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Burr medic	

Comments	Moisture stressed, grasses starting to die, 1st year pasture after crop
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518RBHLRZ-Corrigin-040713-013



	Green	Dead
Feed On Offer (kg/ha):	2,160	0
Digestibility (%):	75	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.2	NA
Sheep Intake (MJ/day):	14.2	
50kg dry, Condition score 3		
Crude Protein (%):	26	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	95	
Legume (%):	50	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Burr medic	


Comments	Moisture stressed, grasses starting to die, 1st year pasture after crop
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Lifetime Ewe Management - FOO Library Results  
WA Winter Photos

519RBVHLRZ-Corrigin-040713-019




	Green	Dead
Feed On Offer (kg/ha):	2,450	0
Digestibility (%):	78	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.7	NA
Sheep Intake (MJ/day):	14.7	
50kg dry, Condition score 3		
Crude Protein (%):	25	NA
Pasture Height (cm):	3	NA
Ground Cover (%):	85	
Legume (%):	10	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Marsh mellow	

Comments	Moisture stressed, grasses starting to die, 1st year pasture after crop
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51RB-FOOphotos-180712-Narrogin011




	Green	Dead
Feed On Offer (kg/ha):	945	0
Digestibility (%):	79	0
Equivalent to		
Metabolizable Energy (MJ/kg):	11.9	0.0
Sheep Intake (MJ/day):	13	
50kg dry, Condition score 3		
Crude Protein (%):	16	0.0
Pasture Height (cm):	2	0.0
Ground Cover (%):	90	
Legume (%):	30	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	
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520RB2LLRZ-Corrigin-040713-022




	Green	Dead
Feed On Offer (kg/ha):	820	0
Digestibility (%):	70	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	10.5	NA
Sheep Intake (MJ/day):	7.2	
50kg dry, Condition score 3		
Crude Protein (%):	23	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	30	
Legume (%):	95	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	Moisture stressed, grasses starting to die, 2nd year pasture after crop
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521RB2MLRZ-Corrigin-040713-030




	Green	Dead
Feed On Offer (kg/ha):	2,020	0
Digestibility (%):	77	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.7	NA
Sheep Intake (MJ/day):	14.1	
50kg dry, Condition score 3		
Crude Protein (%):	24	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	100	
Legume (%):	25	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	Moisture stressed, grasses starting to die, 2nd year pasture after crop
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522RB2HLRZ-Corrigin-040713-034




	Green	Dead
Feed On Offer (kg/ha):	2,430	0
Digestibility (%):	68	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	10.1	NA
Sheep Intake (MJ/day):	10.2	
50kg dry, Condition score 3		
Crude Protein (%):	22	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	95	
Legume (%):	80	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	Moisture stressed, grasses starting to die, 2nd year pasture after crop
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523RB2VHLRZ-Corrigin-040713-039




	Green	Dead
Feed On Offer (kg/ha):	3,310	0
Digestibility (%):	80	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	12.2	NA
Sheep Intake (MJ/day):	15.6	
50kg dry, Condition score 3		
Crude Protein (%):	21	NA
Pasture Height (cm):	4	NA
Ground Cover (%):	100	
Legume (%):	25	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	Moisture stressed, grasses starting to die, 2nd year pasture after crop
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52RB-FOOphotos-180712-Narrogin007




	Green	Dead
Feed On Offer (kg/ha):	1,010	0
Digestibility (%):	85	0
Equivalent to		
Metabolizable Energy (MJ/kg):	13	0.0
Sheep Intake (MJ/day):	14	
50kg dry, Condition score 3		
Crude Protein (%):	23	0.0
Pasture Height (cm):	3	0.0
Ground Cover (%):	100	
Legume (%):	20	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	

Comments	
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53RB-FOOphotos-180712-Narrogin010




	Green	Dead
Feed On Offer (kg/ha):	1,141	0
Digestibility (%):	84	0
Equivalent to		
Metabolizable Energy (MJ/kg):	12.8	0.0
Sheep Intake (MJ/day):	15	
50kg dry, Condition score 3		
Crude Protein (%):	24	0.0
Pasture Height (cm):	5	0.0
Ground Cover (%):	100	
Legume (%):	15	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Cape weed	

Comments	
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54RB-FOOphotos-180712-Narrogin006




	Green	Dead
Feed On Offer (kg/ha):	1,914	0
Digestibility (%):	88	0
Equivalent to		
Metabolizable Energy (MJ/kg):	13.4	0.0
Sheep Intake (MJ/day):	16	
50kg dry, Condition score 3		
Crude Protein (%):	27	0.0
Pasture Height (cm):	8	0.0
Ground Cover (%):	100	
Legume (%):	1	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Cape weed	

Comments	
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55-Curnow-310FOOLOWJuly2012




	Green	Dead
Feed On Offer (kg/ha):	310	0
Digestibility (%):	75	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11.1	NA
Sheep Intake (MJ/day):	15	
50kg dry, Condition score 3		
Crude Protein (%):	20	NA
Pasture Height (cm):	7	NA
Ground Cover (%):	40	
Legume (%):	0	
State:	WA	
Location:	Central wheatbelt	
Climate Zone:	Mediterranean	
Major Species:	Barley	

Comments	Late germination and some droughting
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56-Curnow-220FOOLOWJuly2012019




	Green	Dead
Feed On Offer (kg/ha):	220	0
Digestibility (%):	75	NA
Equivalent to		
Metabolizable Energy (MJ/kg):	11	NA
Sheep Intake (MJ/day):	15	
50kg dry, Condition score 3		
Crude Protein (%):	21	NA
Pasture Height (cm):	5	NA
Ground Cover (%):	25	
Legume (%):	0	
State:	WA	
Location:	Central wheatbelt	
Climate Zone:	Mediterranean	
Major Species:	Barley	

Comments	Late germination and some droughting
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57-BruceRockAugust2012Young5



	Green	Dead
Feed On Offer (kg/ha):	230	2,220
Digestibility (%):	80	25
Equivalent to		
Metabolizable Energy (MJ/kg):	12.3	5.4
Sheep Intake (MJ/day):	8.8	
50kg dry, Condition score 3		
Crude Protein (%):	16	3.4
Pasture Height (cm):	1.5	1.5
Ground Cover (%):	40	
Legume (%):	0	
State:	WA	
Location:	Central wheatbelt	
Climate Zone:	Mediterranean	
Major Species:	Cape weed	

Comments	Late break grazed 6 weeks prior
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# Lifetime Ewe Management - FOO Library Results

## WA Winter Photos

58-BruceRockAugust2012Young8




	Green	Dead
Feed On Offer (kg/ha):	1,170	2,350
Digestibility (%):	80	25
Equivalent to		
Metabolizable Energy (MJ/kg):	12.3	5.4
Sheep Intake (MJ/day):	13	
50kg dry, Condition score 3		
Crude Protein (%):	16	3.4
Pasture Height (cm):	5	3.0
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	Central wheatbelt	
Climate Zone:	Mediterranean	
Major Species:	Cape weed	

Comments	Late break grazed 6 weeks prior
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59-BruceRockAugust2012Young2



	Green	Dead
Feed On Offer (kg/ha):	970	1,830
Digestibility (%):	80	25
Equivalent to		
Metabolizable Energy (MJ/kg):	12.3	5.4
Sheep Intake (MJ/day):	12	
50kg dry, Condition score 3		
Crude Protein (%):	16	3.4
Pasture Height (cm):	3	2.0
Ground Cover (%):	90	
Legume (%):	0	
State:	WA	
Location:	Central wheatbelt	
Climate Zone:	Mediterranean	
Major Species:	Cape weed	

Comments	Late break grazed 6 weeks prior
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