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 Counsel

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.









	Green	Dead
Feed On Offer (kg/ha):	1,000	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	13.5	
Crude Protein (%):	27	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	100	
Legume (%):	90	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments



	Green	Dead
Feed On Offer (kg/ha):	1,000	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	14.4	
Crude Protein (%):	27	NA
Pasture Height (cm):	4	NA
Ground Cover (%):	100	
Legume (%):	5	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley grass	







	Green	Dead
Feed On Offer (kg/ha):	100	120
Digestibility (%): Equivalent to	80	45
Metabolizable Energy (MJ/kg):	11.9	6
Sheep Intake (MJ/day): 50kg dry, Condition score 3	2.5	
Crude Protein (%):	27	7
Pasture Height (cm):	0.5	0.3
Ground Cover (%):	2	5
Legume (%):	90	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments



	Green	Dead
Feed On Offer (kg/ha):	100	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	12	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	5.1	
Crude Protein (%):	24	NA
Pasture Height (cm):	0.5	NA
Ground Cover (%):	6	6
Legume (%):	10	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Annual ryegrass	









	Green	Dead
Feed On Offer (kg/ha):	100	250
Digestibility (%): Equivalent to	78	45
Metabolizable Energy (MJ/kg):	11.6	6
Sheep Intake (MJ/day): 50kg dry, Condition score 3	10.3	
Crude Protein (%):	24	7
Pasture Height (cm):	3	0.5
Ground Cover (%):	20	
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley	

Comments

Intake higher than expected due to tall pasture height for FOO value



		Green	Dead
1	Feed On Offer (kg/ha):	200	0
	Digestibility (%): Equivalent to	80	NA
	Metabolizable Energy (MJ/kg):	11.9	NA
	Sheep Intake (MJ/day): 50kg dry, Condition score 3	8.9	
	Crude Protein (%):	24	NA
	Pasture Height (cm):	1	NA
	Ground Cover (%):	8	5
	Legume (%):	1	
	State:	WA	
	Location:	Great Southern	
1	Climate Zone:	Mediterranean	
	Major Species:	Cape weed	







sal .	Green	Dead
Feed On Offer (kg/ha):	200	100
Digestibility (%): Equivalent to	80	45
Metabolizable Energy (MJ/kg):	11.9	6
Sheep Intake (MJ/day): 50kg dry, Condition score 3	3.9	
Crude Protein (%):	24	7
Pasture Height (cm):	0.5	0.5
Ground Cover (%):	7	5
Legume (%):	90	
State:	WA	
Location:	Great S	outhern
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments



157	Green	Dead
Feed On Offer (kg/ha):	300	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	6.1	
Crude Protein (%):	24	NA
Pasture Height (cm):	1.0	NA
Ground Cover (%):	8	0
Legume (%):	95	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments

Intake higher than expected due to tall pasture height for FOO value







and a	Green	Dead
Feed On Offer (kg/ha):	240	0
Digestibility (%): Equivalent to	77	NA
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	8	
Crude Protein (%):	26	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	25	
Legume (%):	95	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Burr medic	

Comments



		Green	Dead
ĺ	Feed On Offer (kg/ha):	2075	0
	Digestibility (%): Equivalent to	77	NA
	Metabolizable Energy (MJ/kg):	11.7	NA
ş	Sheep Intake (MJ/day): 50kg dry, Condition score 3	15.8	
Ó	Crude Protein (%):	25	NA
T.	Pasture Height (cm):	4	NA
Ź	Ground Cover (%):	90	
X.	Legume (%):	50	
-	State:	WA	
	Location:	Great Southern	
1	Climate Zone:	Mediterranean	
1	Major Species:	Burr medic	









_		Green	Dead
	Feed On Offer (kg/ha):	663	0
	Digestibility (%): Equivalent to	73	NA
	Metabolizable Energy (MJ/kg):	11	NA
à	Sheep Intake (MJ/day): 50kg dry, Condition score 3	7.8	
ë,	Crude Protein (%):	26	NA
	Pasture Height (cm):	1	NA
	Ground Cover (%):	6	0
	Legume (%):	90	
11/11	State:	WA	
	Location:	Great Southern	
	Climate Zone:	Mediter	ranean
200	Major Species:	Burr r	nedic

Comments



	Green	Dead
Feed On Offer (kg/ha):	2,020	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	12.1	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	14.1	
Crude Protein (%):	26	NA
Pasture Height (cm):	3	NA
Ground Cover (%):	7	5
Legume (%):	10	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Annual grass	







_	Green	Dead
Feed On Offer (kg/ha):	870	0
Digestibility (%): Equivalent to	81	NA
Metabolizable Energy (MJ/kg):	12.3	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	14.1	
Crude Protein (%):	23	NA
Pasture Height (cm):	3	NA
Ground Cover (%):	80	
Legume (%):	10	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Annual grass	

Comments



_	Green	Dead
Feed On Offer (kg/ha):	400	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	12.1	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	12.9	
Crude Protein (%):	27	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	50	
Legume (%):	20	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Annual grass	





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<u>_</u>	Green	Dead
Feed On Offer (kg/ha):	232	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	12.1	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	8.9	
Crude Protein (%):	23	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	3	0
Legume (%):	4	0
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediter	ranean
Major Species:	Annua	grass

Comments



	Green	Dead
Feed On Offer (kg/ha):	160	0
Digestibility (%): Equivalent to	77	NA
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	12.4	
Crude Protein (%):	28	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	4	5
Legume (%):	99	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments

Dead herbage not measured or tested







_	Green	Dead
Feed On Offer (kg/ha):	600	0
Digestibility (%): Equivalent to	77	NA
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	13.2	
Crude Protein (%):	28	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	80	
Legume (%):	99	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments

Dead herbage not measured or tested



	0	Dead
	Green	Dead
Feed On Offer (kg/ha):	240	0
Digestibility (%): Equivalent to	77	NA
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	12.6	
Crude Protein (%):	28	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	55	
Legume (%):	9	9
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments

Dead herbage not measured or tested







		Green	Dead
ĥ	Feed On Offer (kg/ha):	940	0
7	Digestibility (%): Equivalent to	66	NA
	Metabolizable Energy (MJ/kg):	9.7	NA
	Sheep Intake (MJ/day): 50kg dry, Condition score 3	13.0	
7	Crude Protein (%):	27	NA
	Pasture Height (cm):	4	NA
	Ground Cover (%):	10	00
	Legume (%):	10	00
1	State:	W	Α
5	Location:	South	Coast
J	Climate Zone:	Mediter	ranean
Š	Major Species:	Sub c	lover

Comments

Dead herbage not measured or tested



	Green	Dead
Feed On Offer (kg/ha):	0	1,790
Digestibility (%): Equivalent to	NA	38
Metabolizable Energy (MJ/kg):	NA	4.9
Sheep Intake (MJ/day): 50kg dry, Condition score 3	5.6	
Crude Protein (%):	NA	5
Pasture Height (cm):	NA	35
Ground Cover (%):	10	00
Legume (%):	0	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Barley	grass

Comments

Geen herbage not measured or tested







		Green	Dead
Feed On	Offer (kg/ha):	2,000	0
Digestibi Equivalent	, ,	86	NA
Metaboli: (MJ/kg):	zable Energy	13.1	NA
-	take (MJ/day): Condition score 3	16.1	
Crude Pr	otein (%):	33	NA
Pasture I	Height (cm):	10	NA
Ground (Cover (%):	100	
Legume	(%):	0	
State:		WA	
Location	:	South Coast	
Climate 2	Zone:	Mediterranean	
Major Sp	ecies:	Annual grass	

Comments

Dead herbage not measured or tested



	Green	Dead
Feed On Offer (kg/ha):	230	0
Digestibility (%): Equivalent to	79	NA
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	8.5	
Crude Protein (%):	27	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	98	
Legume (%):	0	
State:	WA	
Location:	South Coast	
Climate Zone:	Mediterranean	
Major Species:	Annual grass	

Comments

Dead herbage not measured or tested







		Green	Dead
	Feed On Offer (kg/ha):	280	0
大石屋	Digestibility (%): Equivalent to	79	NA
	Metabolizable Energy (MJ/kg):	11.9	NA
	Sheep Intake (MJ/day): 50kg dry, Condition score 3	12.3	
2	Crude Protein (%):	27	NA
	Pasture Height (cm):	2	NA
	Ground Cover (%):	10	00
Ţ	Legume (%):	C)
	State:	W	Α
	Location:	South	Coast
>	Climate Zone:	Mediter	ranean
	Major Species:	Annua	grass

Comments

Dead herbage not measured or tested



763	Green	Dead
Feed On Offer (kg/ha):	1090	0
Digestibility (%): Equivalent to	69	NA
Metabolizable Energy (MJ/kg):	10.3	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	8.7	
Crude Protein (%):	22	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	10	00
Legume (%):	5	
State:	WA	
Location:	Great S	outhern
Climate Zone:	Mediterranean	
Major Species:	Cape	weed







		Green	Dead
	Feed On Offer (kg/ha):	1790	0
	Digestibility (%): Equivalent to	69	NA
	Metabolizable Energy (MJ/kg):	10.3	NA
4 4	Sheep Intake (MJ/day): 50kg dry, Condition score 3	13.0	
S	Crude Protein (%):	22	NA
	Pasture Height (cm):	4	NA
	Ground Cover (%):	10	00
100	Legume (%):	C)
	State:	W	A
	Location:	Great S	outhern
0	Climate Zone:	Mediterranean	
	Major Species:	Cape	weed

Comments



	Green	Dead
Feed On Offer (kg/ha):	610	0
Digestibility (%): Equivalent to	69	NA
Metabolizable Energy (MJ/kg):	10.3	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	7.9	
Crude Protein (%):	22	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	10	00
Legume (%):	5	5
State:	W	Α
Location:	Great S	outhern
Climate Zone:	Mediterranean	
Major Species:	Cape weed	







		Green	Dead
	Feed On Offer (kg/ha):	600	0
	Digestibility (%): Equivalent to	69	NA
Z	Metabolizable Energy (MJ/kg):	10.3	NA
1	Sheep Intake (MJ/day): 50kg dry, Condition score 3	6.2	
	Crude Protein (%):	22	NA
	Pasture Height (cm):	1	NA
	Ground Cover (%):	10	00
	Legume (%):	5	5
	State:	W	Α
	Location:	Great S	outhern
3	Climate Zone:	Mediter	ranean
	Major Species:	Cape	weed

Comments



_	Green	Dead
Feed On Offer (kg/ha):	860	0
Digestibility (%): Equivalent to	69	NA
Metabolizable Energy (MJ/kg):	10.3	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	9.5	
Crude Protein (%):	22	NA
Pasture Height (cm):	2	NA
Ground Cover (%):	10	00
Legume (%):	5	5
State:	WA	
Location:	Great S	outhern
Climate Zone:	Mediterranean	
Major Species:	Cape weed	







water.		Green	Dead
Ì.	Feed On Offer (kg/ha):	1000	0
	Digestibility (%): Equivalent to	75	NA
	Metabolizable Energy (MJ/kg):	11.2	NA
9	Sheep Intake (MJ/day): 50kg dry, Condition score 3	14.3	
6	Crude Protein (%):	23	NA
*	Pasture Height (cm):	4	NA
1	Ground Cover (%):	10	00
9	Legume (%):	()
£.	State:	W	Α
9	Location:	Great S	outhern
	Climate Zone:	Mediterranean	
	Major Species:	Annual r	yegrass

Comments

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-	Green	Dead
Feed On Offer (kg/ha):	110	0
Digestibility (%): Equivalent to	75	NA
Metabolizable Energy (MJ/kg):	11.2	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	6.7	
Crude Protein (%):	23	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	2	5
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediter	ranean
Major Species:	Annual grass	

Comments

dead pasture not assessed or measured







		Green	Dead
T.	Feed On Offer (kg/ha):	620	0
4	Digestibility (%): Equivalent to	75	NA
	Metabolizable Energy (MJ/kg):	11.2	NA
	Sheep Intake (MJ/day): 50kg dry, Condition score 3	13.2	
	Crude Protein (%):	23	NA
1	Pasture Height (cm):	3	NA
	Ground Cover (%):	10	00
	Legume (%):	C)
Į.	State:	W	Α
4	Location:	Great Se	outhern
5	Climate Zone:	Mediter	ranean
1	Major Species:	Annual r	yegrass

Comments

dead pasture not assessed or measured

474mhHRZ280513grass800_3	COJDAIUP 28-5-13 RASS H
	MANA TO MANA TO A STATE OF THE

ar.	Green	Dead
Feed On Offer (kg/ha):	800	0
Digestibility (%): Equivalent to	76	NA
Metabolizable Energy (MJ/kg):	11.4	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	14.8	
Crude Protein (%):	26	NA
Pasture Height (cm):	5	NA
Ground Cover (%):	10	00
Legume (%):	()
State:	W	Α
Location:	Great S	outhern
Climate Zone:	Mediter	ranean
Major Species:	Barley grass	

Comments

dead pasture not assessed or measured







_		Green	Dead
1	Feed On Offer (kg/ha):	240	0
	Digestibility (%): Equivalent to	79	NA
	Metabolizable Energy (MJ/kg):	11.9	NA
	Sheep Intake (MJ/day): 50kg dry, Condition score 3	10.8	
Š	Crude Protein (%):	19	NA
T	Pasture Height (cm):	1.5	NA
4	Ground Cover (%):	8	5
	Legume (%):	C)
X	State:	W	A
	Location:	Great S	outhern
1	Climate Zone:	Mediter	ranean
	Major Species:	Silver	grass

Comments

478mhHRZ280513stubble200_1

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	Green	Dead
Feed On Offer (kg/ha):	200	0
Digestibility (%): Equivalent to	75	NA
Metabolizable Energy (MJ/kg):	11.2	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	9.1	
Crude Protein (%):	23	NA
Pasture Height (cm):	1.5	NA
Ground Cover (%):	7	5
Legume (%):	1	0
State:	W	Α
Location:	Great So	outhern
Climate Zone:	Mediter	ranean
Major Species:	Annual r	yegrass

Comments

stubble not assessed for FOO or quality







20 20	Green	Dead
Feed On Offer (kg/ha):	500	0
Digestibility (%): Equivalent to	80	NA
Metabolizable Energy (MJ/kg):	11.9	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	10.6	
Crude Protein (%):	27	NA
Pasture Height (cm):	1	NA
Ground Cover (%):	95	
Legume (%):	99	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Sub clover	

Comments

500FOO mix aut



-		Green	Dead
	Feed On Offer (kg/ha):	500	0
一 图	Digestibility (%): Equivalent to	80	NA
The state of	Metabolizable Energy (MJ/kg):	11.9	NA
A	Sheep Intake (MJ/day): 50kg dry, Condition score 3	10.3	
N W	Crude Protein (%):	27	NA
に変数に	Pasture Height (cm):	1	NA
1	Ground Cover (%):	100	
	Legume (%):	60	
	State:	WA	
	Location:	Great Southern	
10 m	Climate Zone:	Mediterranean	
C C	Major Species:	Sub clover	









_	Green	Dead
Feed On Offer (kg/ha):	600	0
Digestibility (%): Equivalent to	78	NA
Metabolizable Energy (MJ/kg):	11.6	NA
Sheep Intake (MJ/day): 50kg dry, Condition score 3	15	
Crude Protein (%):	24	NA
Pasture Height (cm):	6	NA
Ground Cover (%):	95	
Legume (%):	0	
State:	WA	
Location:	Great Southern	
Climate Zone:	Mediterranean	
Major Species:	Barley	

