



Live assessment yard book

Sheep and lamb



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Acknowledgements

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Introduction

This booklet has been developed as part of the lamb and sheepmeat Supply Chain Management program to assist producers in the development of live sheep assessment skills. It is designed as a "hands-on" guide to assist with dressing percentage calculations.

To achieve maximum benefit from this booklet you should document your assessment of fat score and carcase weight in the tables provided. This assessment can then be compared to actual results achieved from your abattoir feedback sheet to determine accuracy.

If there is a large variance between assessment and actual results you should review your assessment technique for future consignments. Perfecting this skill will allow you to maximise your compliance to specifications when marketing sheep and lambs to a grid.

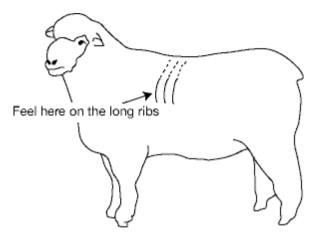
The same principles apply when assessing the fat score of ewes. Ideally, ewes should be a minimum of fat score 3 at joining and lambing. Monitoring the fat scores of ewes prior to joining and lambing will allow you to make better decisions in relation to balancing the nutritional requirements at these key times.

Fat scoring sheep and lambs

Manual fat scoring is a skill that is best learned by practice. Fat scores range from 1 (leanest) to 5 (fattest). Scores are based on actual soft tissue depth at the 'GR' site, which is 110mm from the midline over the 12th rib (see table and diagrams on the following pages).

To achieve a reliable score, have the sheep or lamb standing in a relaxed state, preferably in a race or liveweight scales. The animal will not be bruised if assessed in the correct manner by palpation with the fingertips and thumb. The scorer must work fingers through the wool to skin level before feeling for fat cover over the rib bones.

To assess fatness at the GR site place your thumb on the back line over the 12th rib. This will give you an early indication of tissue coverage. Holding your thumb on the back line place fingers down over what is the eve muscle to a position 110mm from the middle of the backbone on the 12th rib. The fat score is determined by making a comparison between the palpation description and the scores provided in the table on page 4.



Note

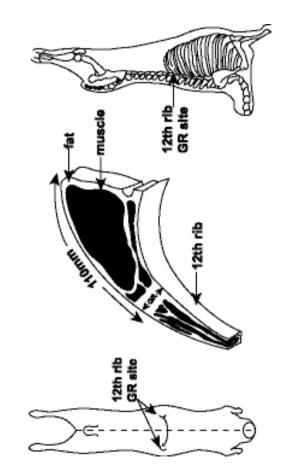
At the same weight, ewe lambs are generally fatter than wether lambs.

In young lambs (suckers) on a steady plane of nutrition the fat distribution will be fairly even. In older lambs and sheep, fat distribution may not be as even.

Fat score table

		Fat	score		
	1	2	3	4	5
GR tissue depth in mm	0-5mm	6-10mm	11-15mm	16-20mm	More than 20mm
	•	Individual ribs easily felt but some tissue present	Individual ribs can still be felt but can feel tissue	Can just feel ribs and fluid movement of tissue	Ribs barely felt. Tissue movement very fluid

GR site location on carcase



Dressing percentage guidelines

The following guidelines are for weaned second-cross Lambs (eq. Border Leicester Merino x Dorset) that are 2-3 hours off feed with a wool length of 50mm (2").

Other sheep will have a higher or lower dressing percentage depending on the following factors.

Factors affecting dressing percentage

- · Skin weight
 - length of wool
 - wet/dry
- Fatness
- Breed
- Time off feed and water prior to weighing
- · Seasonal feed conditions
- Sex
- Carcase definition

1. Skin weight adjustment

• A 75mm (3") skin, just too wet to shear, holds 0.2-0.5kg of water. Make no adjustment for dry lambs.

2. Dressing percentages *

Fat score	Lam	nbs	She	еер
	Unweaned	Weaned	Wethers	Ewes
1	43%	41%	39%	38%
2	45%	43%	41%	40%
3	47%	45%	43%	42%
4	49%	47%	45%	44%
5	51%	49%	47%	46%

^{*} These are a guide only, there will be seasonal and locality variations.

3. Breed

• Border Leicester/Merino and Merino lambs will generally dress 1.5% to 3.5% less than 2nd cross lambs.

4. Time off feed

0-3 hrs	0
4-5 hrs	+ 1%
6-8 hrs	+ 2%
9-12 hrs	+ 2-3%
13-24 hrs	+ 3.5-4.5%

(Add to the relevant dressing percentage figures above)

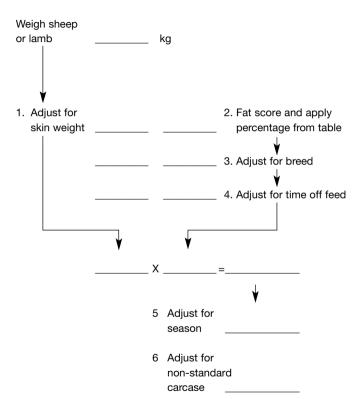
5. Seasonal variation

Fluctuation of up to \pm 3% can occur because of season, for example, in late spring when pastures can be long and rank, dressing percentages are likely to be lower as gut fill will take longer to empty out. Alternatively, feeds that are high in moisture (such as pastures in mid winter) will result in higher dressing percentages, as they will not be retained as gut fill.

6. Carcase definition

- The AUS-MEAT standard carcase trim is defined by the removal of the thick skirts, kidneys, kidney knob, channel, udder and cod fat.
- Weight is measured hot Hot Standard Carcase Weight (HSCW).
- For a non-standard trim (kidney/kidney knobs etc retained) add up to 4% to the dressed weight.
- Chilled cold carcase weights are around 3% less than hot weights.
- For domestic mutton add 3% for non-standard carcase trim.

Dressing percentage calculation



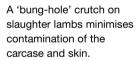
Skins

Skins are a valuable product for the industry, contributing up to 30% of the return from sheep and lambs.

How to improve skin value:

- · Avoid sires with black points
- · Vaccinate behind the ear
- Avoid grass seed and burr contamination
- · Bung-hole crutch only
- · Control fly strike and lice
- · Adopt an effective worm control program
- Only apply spray markers to the head or nose
- Do not sell sheep directly off shears
- Many processors have a maximum of 40mm length on shorn skins to reduce carcase contamination







A full crutch on slaughter lambs is unnecessary, reducing the value of the skin.

Best practice and quality assurance guidelines for lamb and sheep

Breeding - use only high performance LAMBPLAN rams.

- select polled sires.

Marking/

Vaccinating - mark lambs between three and six weeks of age.

Vaccinating vaccinate behind the ear.

- graze lambs on mixed pastures and try to maintain Nutrition

growth rates of 200 g/h/d from birth to sale.

Monitorina - weigh and fat score lambs on a regular basis to

ensure that target specifications will be met by the

desired date.

feeding

Supplementary - do not feed more than 20% lupin grain in

finishing diets.

Musterina - avoid moving stock too fast, or during temperature

extremes.

- muzzle all dogs.

Curfew - sheep and lambs should be held for a minimum of

> 12 hours without access to food and water prior to transportation. Specific requirements may be

longer, check with your agent/ processor.

Crutchina - bung-hole crutch all lambs at least four days

prior to sale.

Marketing - weigh and fat score lambs prior to delivering to

abattoir to ensure lambs hit specifications. Review

feedback to measure performance.

check assessment

No.	Liveweight (kg)	Carcase weight (kg) Estimated Actual	v ei ght (kg) Actu <i>a</i> l	Fat score 1 - 5 Estimated Actual	e 1 - 5 Actual	Comment

Individual assessment check sheet

Date:

Š.	Liveweight (kg)	Carcase weight (kg) Estimated Actual	veight (kg) Actual	Fat score 1 - 5 Estimated Actual	e 1 - 5 Actual	Comment

Note: This sheet is suitable for practice or training purposes when assessing live sheep.

Individual assessment check sheet

Date:

Comment					
a 1 - 5 Actual					
Fat score 1 - 5 Estimated Actual					
eight (kg) Actual					
Carcase weight (kg) Estimated Actual					
Liveweight (kg)					
No.					

Note: This sheet is suitable for practice or training purposes when assessing live sheep.

Individual assessment check sheet

Date:

Comment					
e 1 - 5 Actual					
Fat score 1 - 5 Estimated Actual					
Carcase weight (kg) insted Actual					
Carcase w Estimated					
Liveweight (kg)					
No.					

Note: This sheet is suitable for practice or training purposes when assessing live sheep.

Individual assessment check sheet

Date:

Comment					
e 1 - 5 Actual					
Fat score 1 - 5 Estimated Actual					
reight (kg) Actual					
Carcase weight (kg) Estimated Actual					
Liveweight (kg)					
No.					

Note: This sheet is suitable for practice or training purposes when assessing live sheep.

Individual assessment check sheet

Date:

Comment					
e 1 - 5 Actual					
Fat score 1 - 5 Estimated Actual					
Carcase weight (kg) inated Actual					
33					
Liveweight (kg)					
No.					

Note: This sheet is suitable for practice or training purposes when assessing live sheep.

Consignment summary sheet

Date:

5						
4						
8						
2						
-						
Fat score*	Weight classes 18 16.1-18 kg	20 18.1-20 kg	22 20.1-22 kg	24 22.1-24 kg	26 24.1-26 kg	28 26.1 kg +

gatepost method eg IM. This will allow you to determine the number of lambs you can market within a set specification. Calculate the number of sheep for each fat score and weight class by scoring in batches of five using the

Consignment summary sheet

Date:

Fat score*	1	2	3	4	5
Weight classes 18 16.1-18 kg					
20 18.1-20 kg					
22 20.1-22 kg					
24 22.1-24 kg					
26 24.1-26 kg					
28 26.1 kg +					

Calculate the number of sheep for each fat score and weight class by scoring in batches of five using the gatepost method eg IIII. This will allow you to determine the number of lambs you can market within a set specification.

Comparison summary sheet

Date:

Dressing % for consignment =

Comments:

Fat score*	Less than 2	an 2	2-3	3		4-5
Weight classes	Estimated Actual (from feedback	Actual (from feedback sheet)	Estimated Actual (from feedback sheet)	Actual (from feedback sheet)	Estimated	Estimated Actual (from feedback sheet)
18 16.1-18 kg						
20 18.1-20 kg						
22 20.1-22 kg						
24 22.1-24 kg						
26 24.1-26 kg						
28 26.1 kg +						

Use this sheet to determine your accuracy by comparing how many lambs hit weight and fat specifications on the abattoir feedback sheet against estimates from your consignment summary sheet.

Somparison summary sheet

Dressing % for consignment

Comments:

Estimated 23 Estimated E S 20 18.1-20 kg 22 20.1-22 kg 24 22.1-24 kg 18 16.1-18 kg 26 24.1-26 kg 28 26.1 kg +

comparing how many lambs hit weight and fat specifications on Jee this sheet to determine your accuracy by

Contacts

For further information relating to live animal assessment skills contact your local state department lamb industry development officer.

For further information contact:

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Manager NLRS

Meat & Livestock Australia Locked Bag 991 North Sydney NSW 2059 Ph: 02 9463 9373 www.nlrs.com.au

Liveweight to hot standard carcase weight conversion

74%	18.4		18.9	18.9	18.9	18.9 19.4 20.0	18.9 19.4 20.0 20.5 21.1	18.9 19.4 20.0 20.5 21.1	20.0 20.0 20.5 21.1 21.6	18.9 19.4 20.5 21.6 21.6 22.7 22.7 22.7	18.9 19.4 19.4 22.1 22.7 22.7	18.9 20.0 20.0 19.4 19.4 20.5 20.0 20.5 20.5 20.5 20.5 20.5 20.5	18:0 19:4 19:4 18:3 18:3 18:3 18:3 18:3 18:3 18:3 18:3	48.9 49.4 20.5 20.5 20.5 21.6 24.8 24.8 24.8	28
53% 54%	18.0	18.6		6											
52%	17.7	282		18.7	18.7	18.7 19.2 19.8	18.7 19.2 19.8 20.3	18.7 19.2 19.8 20.3	18.7 19.2 19.8 20.3 20.3 21.3	18.7 19.2 20.3 20.8 21.3 21.8	18.7 19.2 19.8 20.3 21.3 21.3 22.4	18.7 19.2 19.8 19.8 21.3 21.3 21.8 22.9	18.7 19.8 19.8 20.3 21.3 21.3 22.9 22.9	18.7 16.2 16.2 16.8 16.8 16.8 17.3 18.4 18.4 18.5 18.4 18.4 18.7 18.8 18.4 18.4 18.4 18.4 18.4 18.4 18.4	48.7 46.2 46.8 47.4 47.4 48.7 48.7 48.7 48.7 48.7 48
51%	17.3	17.9	g	t j	4. 6.9	18.9	18.9 19.4 19.9	19.4 19.9 20.4	18.9 19.4 20.9	18.9 19.4 19.9 19.9 19.9 19.9 19.9 19.9	18.9 19.4 19.9 19.9 19.9 19.9 19.9 19.9	18.9 19.4 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	18. 19. 4 19. 4 19. 6 19. 6 19	4.01 19.04 1	18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19
20%	17.0	17.5	18.0		18.5	18.5 19.0	18.5 19.0 19.5	18.5 19.0 19.5 20.0	18.5 19.0 20.0 20.5	18.5 19.0 20.0 20.5 21.0	18.5 19.0 20.0 20.5 21.0 21.5	2005 2005 2005 2005 2005 2005 2005 2005	18.5 19.0 20.0 20.0 21.0 22.0 22.5 22.5 22.5 22.5	18.5 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0	185 190 190 200 21.5 22.0 22.5 22.5 22.5 22.5 22.5 22.5 22
49%	16.7	17.2	17.6		18.1	18.1	18.1 19.1	18.6 19.1 19.6	18.1 19.1 19.6 20.1	18.6 19.6 20.6 20.6	18.1 19.1 19.6 20.1 21.1	18.1 18.6 19.1 19.6 20.1 21.6 21.6	18.1 19.1 19.6 19.6 20.1 20.6 22.1 22.1	18.1 19.6 19.6 20.1 22.1 22.5	18.1 18.6 19.1 19.6 20.1 22.1 22.5 23.0
48%	163	16.8	17.3		17.8	17.8 18.2	17.8 18.2 18.7	17.8 18.2 18.7	17.8 18.2 18.7 19.2 19.7	17.8 18.2 18.7 19.2 20.2	17.8 18.2 18.7 19.2 19.7 20.6	17.8 18.7 19.2 20.2 20.6 21.1	17.8 18.2 19.2 19.7 20.2 20.6 21.1	17.8 18.7 19.2 19.7 20.2 20.6 20.6 21.1 21.6	17.8 18.2 19.2 19.7 19.7 20.6 21.1 22.6
47%	16.0	16.5	16.9		17.4	17.4	17.4 17.9 18.3	17.4 17.9 18.3	17.4 17.9 18.8 19.3	17.4 17.9 18.3 19.3 19.3	17.4 18.3 18.8 19.7 20.2	17.4 17.9 18.3 19.3 19.7 20.2	17.4 17.9 18.3 18.8 19.3 19.7 20.2 20.2 20.7	17.4 17.9 18.3 19.3 19.7 20.2 20.2 20.7 21.2 21.2	17.4 17.9 18.3 19.3 19.7 20.2 20.7 21.2 21.2 21.6
46%	15.6	16.1	16.6		17.0	17.0 17.5	17.0 17.5 17.9	17.0 17.5 17.9	17.0 17.5 17.9 18.4	17.0 17.5 17.9 18.4 18.9	17.0 17.5 17.9 18.9 19.3	17.0 17.5 17.9 18.9 19.3 19.3	17.0 17.5 17.9 18.9 19.3 19.8 20.2	17.0 17.5 17.9 18.4 18.9 19.3 19.8 20.2 20.7	17.0 17.5 17.9 18.4 19.3 19.3 19.3 20.2 20.2 20.7
45%	15.3	15.8	16.2		16.7	16.7	16.7 17.1 17.6	16.7 17.1 17.6 18.0	16.7 17.1 17.6 18.0	16.7 17.1 17.6 18.0 18.5	16.7 17.1 17.6 18.0 18.5 19.4	16.7 17.1 17.6 18.0 18.9 19.4	16.7 17.1 18.0 18.5 18.9 19.4 19.8	16.7 17.1 17.6 18.0 18.5 18.9 19.4 19.8 20.3	16.7 17.1 18.0 18.5 18.9 19.4 19.8 20.3 20.3
44%	15.0	15.4	15.8		16.3	16.3 16.7	16.3 16.7 17.2	16.3 16.7 17.2 17.6	16.3 16.7 17.2 17.6 18.0	16.3 16.7 17.2 17.6 18.0	16.3 17.2 17.6 18.0 18.5	16.3 17.2 17.6 18.0 18.5 18.5	16.3 17.2 17.6 18.0 18.5 19.4	16.3 17.2 17.6 18.0 18.5 18.9 19.4 19.8	16.3 17.2 17.6 18.0 18.5 19.4 19.8 20.2
43%	14.6	15.0	15.5		15.9	15.9	15.9 16.3	15.9 16.3 16.8	15.9 16.3 16.8 17.2	15.9 16.8 17.2 17.6	15.9 16.3 17.2 17.6 18.1	15.9 16.3 17.2 17.6 18.1 18.5	15.9 16.8 17.2 17.6 18.5 18.5	15.9 16.3 17.2 17.6 18.1 18.5 19.4	15.9 16.3 17.2 17.6 18.5 18.5 19.4
42%	143	14.7	15.1	15.5		16.0	16.0 16.4	16.0 16.4 16.8	16.0 16.4 16.8	16.0 16.4 16.8 17.2	16.4 16.8 17.2 17.6	16.0 16.4 17.2 17.6 18.1	16.0 16.8 17.2 17.6 18.1 18.5 18.9	16.0 16.4 17.2 17.6 18.1 18.5 18.9	16.0 16.4 17.2 17.6 18.1 18.5 18.9
41%	13.9	4.4	14.8	15.2		15.6	15.6	15.6 16.0	15.6 16.0 16.4	15.6 16.0 16.4 16.8	15.6 16.0 16.4 16.8 17.2	15.6 16.0 16.4 17.2 17.6	15.6 16.0 16.8 17.2 17.6 18.0	15.6 16.4 16.8 17.2 17.6 18.0	15.6 16.4 16.8 17.2 17.6 18.0 18.9
40%	13.6	14.0	4.4	14.8		152	15.2 15.6	15.2 15.6							
% 6 E	13.3	13.7	14.0	4.4		14.8	14.8	14.8 15.2 15.6	14.8 15.2 15.6	14.8 15.2 15.6 16.0	14.8 15.2 16.0 16.4	14.8 15.2 16.0 16.4 16.8	14.8 15.2 16.0 16.4 17.2 17.2	14.8 15.6 16.0 16.4 17.2 17.6 17.6	14.8 15.2 16.0 16.0 16.8 17.2 17.6 17.9
38%	129	13.3	13.7	1 .		4.4	4.4 4.8	4.4 14.8 15.2							
37% 38% 39% 40% 41% 42% 43% 44% 45% 46% 47% 48% 49% 50%	12.6	13.0	13.3	13.7		14.1	1. 4. 1. 4.	1. 4. 4. 4. 4. 4. 8. 4.	14.1 14.8 15.2	14.1 14.8 15.2 15.5	14.4 14.8 15.2 15.5 15.0 15.0	1.4.4 1.5.5 1.5.5 1.5.5 1.5.5 1.5.5 1.5.5 1.5.5	14.4 14.8 15.2 15.5 16.3	14.1 14.8 15.2 15.5 15.9 16.3 16.7	14.1 14.8 15.2 15.5 15.9 16.3 17.0
					-										
LIVEWEIGHT	34.0	35.0	36.0	37.0		38.0	38.0 39.0	38.0 39.0 40.0	38.0 39.0 40.0 41.0	38.0 39.0 40.0 41.0	38.0 39.0 40.0 42.0 43.0	38.0 39.0 40.0 42.0 43.0	38.0 39.0 40.0 42.0 43.0 44.0	38.0 39.0 40.0 42.0 43.0 44.0 46.0	38.0 39.0 40.0 42.0 43.0 45.0 45.0
3															

VEWEIGHT	37%	37% 38%	36%	39% 40% 41%	41%	42%	43%	44%	45%	46%	47%	43% 44% 45% 46% 47% 48% 49% 50%	49%	20%	51%	52%	23%	53% 54%
49.0	18.1	18.6	19.1	19.6	20.1	20.6	21.1	정.6	22.1	22.5	23.0	23.5	24.0	24.5	25.0	25.5	98.0	26.5
50.0	18.5	190	19.5	20.0	20.5	21.0	21.5	8	22.5	830	23.5	24.0	24.5	25.0	25.5	26.0	28.5	27.0
51.0	18.9	19.4	19.9	8	20.9	4.7	21.9	224	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	27.5
52.0	19.2	19.8	20.3	20.8	21.3	24.8	22.4	229	23.4	83	24.4	25.0	25.5	26.0	26.5	27.0	27.6	8.
53.0	19.6	23.	20.7	272	21.7	223	22.8	23.3	23.9	24.4	24.9	25.4	26.0	26.5	27.0	27.6	8.	28.6
54.0	20.0	20.5	21.1	21.6	22.1	72.7	23.2	83.8	24.3	24.8	25.4	25.9	26.5	27.0	27.5	28.1	28.6	292
55.0	20.4	20.9	21.5	20	22.6	83	23.7	24.2	24.8	25.3	25.9	26.4	27.0	27.5	28.1	28.6	28.2	29.7
96.0	20.7	23.33	21.8	8	23.0	23.5	24.1	24.6	25.2	25.8	26.3	26.9	27.4	28.0	28.6	28	83.7	30.2
97.0	21.1	2.7	22.2	228	23.4	23.9	24.5	25.1	25.7	26.2	26.8	27.4	27.9	28.5	29.1	29.6	30.2	30.8
98.0	21.5	20	22.6	232	23.8	24.4	24.9	25.5	26.1	26.7	27.3	27.8	28.4	29.0	29.6	30.2	30.7	31.3
29.0	21.8	24	23.0	23.6	242	24.8	25.4	26.0	26.6	27.1	27.7	28.3	28.9	29.5	8	30.7	<u>ب</u> ج	31.9
0.09	22.2	28	23.4	24.0	24.6	252	25.8	26.4	27.0	27.6	28.2	28.8	29.4	30.0	30.6	31.2	8. 8.	324
61.0	22.6	232	23.8	24.4	25.0	25.6	26.2	26.8	27.5	8.	28.7	293	29.9	30.5	3.1	31.7	83	828
62.0	22.9	23.6	24.2	24.8	25.4	26.0	26.7	27.3	27.9	28.5	29.1	29.8	30.4	31.0	31.6	32.2	8	33.5
63.0	23.3	23.9	24.6	25.2	25.8	26.5	27.1	27.7	28.4	29.0	29.6	30.2	30.9	31.5	82.	8	8.4	34.0
64.0	23.7	24.3	25.0	25.6	262	26.9	27.5	28.2	28.8	29.4	8.7	30.7	31.4	320	32.6	33.3	83.9	34.6
65.0	24.1	24.7	25.4	26.0	26.7	27.3	28.0	28.6	29.3	29.9	30.6	312	31.9	32.5	33.2	33.8	34.5	35.1
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