

BODY CONDITION SCORE Max Tweedie, Genetics Adoption Officer, B+LNZ Genetics

Why Body Condition Score for genetics?

• Live weight is incomplete for describing key traits

• Describing the ewe of the future

Cheap & easy but <u>useful</u> breeder collected data





more production relative to size of ewe





Currently SIL estimates ewe feed costs on basis of adult liveweight (EWT BV)

Adding BCS improves estimation of ewe feed requirements





Ability of ewe to remain productive while withstanding environmental challenges



Why Body Condition Score for genetics?

- Directly affects...
 - scanning percentage
 - lamb birthweight and survival
 - colostrum production and milking ability
 - lamb growth



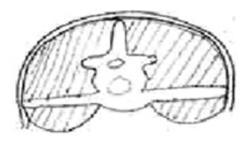
When to BCS?

Record at:

- (Pre) Mating
- Winter
- Scanning
- Lambing
- Weaning









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All are highly correlated (ewes will rank the same)

So only one is necessary...





SIL recommends recording :

BCSMATE alongside LWMATE





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Data for discovery - to answer these questions





- Moderately heritable at 20%
- Take more than 1 score and SIL will use largest data set

• 2th scores and older

• Is highly repeatable



So who's doing it?

• Recording to date:

- Ovita ewe efficiency trial
- BCS data via SIL flocks
- Lamb Ultrasound scans (40% correlation)



State of the Nation

Number of DP & DP+TS flocks recording LWMATE & BCSMATE

Year	LWMATE	BCSMATE
2014	120	22
2015	135	40
2016	110	45



State of the Nation

% of DP & DP+TS flocks recording LWMATE & BCSMATE

Year	LWMATE	BCSMATE
2014	50%	10%
2015	55%	16%
2016	45%	18%



Is fat a maternal trait or a carcase trait?

Maternal optimum vs terminal optimum

Class of country dependent?





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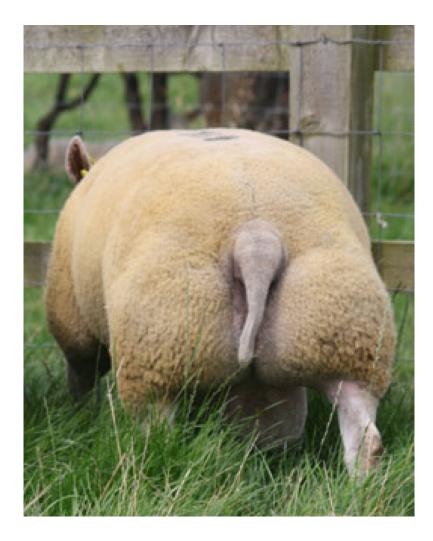
Maternal optimum vs terminal optimum

Class of country dependent?



Optimums







Remember...

• Correlated to many other production traits

• Better descriptors are needed

• You talk the talk, now walk the walk

• And do so at mating with LWMATE





Thank you.