

1. USING PERCENTILES TO IMPROVE CUSTOMER CHOICE

2. DOHNE ASBV ANOMALIES



PERCENTILES

A SET OF ACTUAL ASBV'S FOR PROGENY ST150235

BWT	WWT	MWWT	PWWT	PFAT	PEMD	YWT	YFAT	YEMD
0.18	3	0.8	3.3	0.2	0.2	4	0.3	0.5
YCFW	YGFW	YFD	YFDCV	PWEC	NLW	PSC	Dohne	
1.5	1.7	-0.3	-0.9	13	0%	1	129.2	

BWT	WWT	MWWT	PWWT	PFAT	PEMD	YWT	YFAT	YEMD
YCFW	YGFW	YFD	YFDCV	PWEC	NLW	PSC	Dohne	

BWT	WWT	MWWT	PWWT	PFAT	PEMD	YWT	YFAT	YEMD
YCFW	YGFW	YFD	YFDCV	PWEC	NLW	PSC	Dohne	

STIRLING 2016 ON PROPERTY SALE RAMS

LOT NO	IDENTITY	BWT	WWT	MWWT	PWWT	PFAT	PEMD	YWT	YFAT	YEMD	YCFW	YGFW	YFD	YFDCV	PWEC	NLW	PSC	Dohne
1	ST150173	0.21	3.3	0.8	3.6	0	0.3	4.1	0.2	0.6	-0.5	-1.1	-0.1	-1.1	17	-3%	1.3	120.5
2	ST150113	0.14	2.9	0.8	2.9	-0.2	-0.3	3.8	0	-0.1	5.6	5	-0.2	-0.7	17	-1%	1	117.2
3	ST150062	0.24	1.7	0.9	2	0.1	0.6	2.4	0	0.8	9.2	9.4	-1.2	0	-17	5%	0.5	144.4
4	ST150157	0.26	2.7	1	2.7	0.6	1.1	3	0.7	1.4	2.3	1.8	-0.3	-1.3	-2	-5%	0.7	129.5
5	ST150086	0.21	2.3	0.6	3	-0.2	0.1	3.7	-0.1	0.2	3.2	3.5	-1.1	-1.1	11	-3%	1	125.5
6	ST150129	0.29	4.5	0.5	4.8	-0.2	0.3	5.1	0	0.7	7	7.2	-0.1	-0.7	16	1%	1.4	140.7
7	ST150030	0.22	2.1	0.3	1.6	0.1	0.6	2	0.1	0.9	9.7	9.6	-1.1	-0.3	-14	-3%	0.3	125.4
8	ST150065	0.27	2.8	0.7	2.2	0.1	0.7	2.2	0.1	1	13.7	15	-1.3	-0.3	-12	1%	0.5	143.5
9	ST150235	0.18	3	0.8	3.3	0.2	0.2	4	0.3	0.5	1.5	1.7	-0.3	-0.9	13	0%	1	129.2
10	ST150247	0.22	3.7	0.5	3.2	-0.1	-0.4	3.2	0.1	0	1	1.9	-0.5	-1.1	27	-3%	1.1	114.3
11	ST150098	0.19	3.3	1.3	3.9	0.6	1	4	0.6	1.1	-4.8	-6.1	0.4	-2	0	0%	1.1	134.2
12	ST150140	0.24	3.5	0.1	4.4	-0.1	0.1	5.7	0	0.5	8.2	8.2	-0.2	-0.5	21	5%	1.2	143.3
13	ST150171	0.23	3.4	0.4	3.5	0.2	0.5	4.4	0.3	0.8	2.6	2.4	0.1	-1.5	5	-1%	1.1	126.6
14	ST150107	0.14	2.9	1.1	2.9	0.1	-0.1	3.8	0.3	0.3	-2.1	-2.7	-0.1	-1.1	17	-1%	1.1	115.9
15	ST150234	0.31	4.3	1.3	4.3	0.1	0.3	5.1	0.3	0.7	0.8	1.4	-1.1	-1.6	15	0%	1.4	139.5
16	ST150178	0.1	2.7	0.7	2.9	-0.4	-0.5	3.6	-0.3	-0.2	-0.5	-1.6	-0.3	-1	18	-1%	1.2	111.1
17	ST150052	0.24	3.1	-0.4	2.9	0.3	0.4	3.5	0.5	0.7	8.5	9.4	-0.8	-1	14	-3%	0.9	124.8
18	ST150202	0.21	2.8	0.2	3.1	0.2	0.4	3.1	0.2	0.6	0.8	0	-0.7	-0.2	16	3%	0.9	133
19	ST150155	0.3	3.5	0.8	3.7	0.2	0.4	4.9	0.4	0.7	7	6.8	-0.8	-1	12	-2%	1	135.1
20	ST150009	0.25	2.3	0.5	2.3	0	0.4	2.3	0	0.6	13.7	13.6	-1.2	-0.8	-12	-5%	0.5	129.8
21	ST150221	0.19	3.1	0.4	3.1	-0.2	0	3.9	0	0.5	-2.4	-3.3	-0.8	-1.6	16	0%	1.1	120.7
22	ST150209	0.16	2.3	1.1	2.6	0.4	0.8	2.2	0.3	0.9	-10.1	-11.6	-0.4	-1.5	5	0%	0.9	126
23	ST150277	0.2	2.3	1	3.1	0.2	0.3	3.3	0.4	0.6	-8.9	-9.1	-1	-1.5	6	-1%	1.1	123.6
24	ST150159	0.19	2.4	1.2	2.2	0.2	0.9	2.2	0.3	1.2	-3.8	-4.2	-1.1	-1	13	2%	0.7	137.2
25	ST150142	0.22	3.7	0.6	4.3	0	0.5	5.6	0.2	0.9	1	0.7	0.5	-1.7	15	0%	1.3	130.6
26	ST150254	0.22	3.6	1.7	3.7	0.4	1	3.6	0.4	1	-2.8	-3.4	0.3	-1.3	5	-4%	1	131.6
27	ST150144	0.21	2.7	1.1	3	0.5	0.7	3.5	0.6	0.9	-0.2	-0.1	-0.6	-1.4	4	0%	0.9	134.3
28	ST150003	0.26	2.9	1	2.2	0.2	0.8	2.2	0.2	1.1	18.3	19.6	-1.2	0.1	-15	0%	0.5	148.4
29	ST150106	0.28	4.4	0.4	5.1	0.1	0.3	5.8	0.2	0.5	6.9	7.6	0.1	-0.9	15	-2%	1.5	132.9
30	ST150305	0.15	3.3	1.7	3.5	0.2	0.1	3.9	0.1	0.1	-2.8	-3.8	-0.6	-0.2	11	1%	1.4	127.4

ASBV'S FIGURES AND PERCENTILE BAND TABLE TAKEN FROM 21 JAN 2017 ANALYSIS

WHAT DO WE GAIN?

1. SPEED AND ACCURRACY CONVERSION FROM ACTUAL TO PERCENTILE
2. SPEED AND ACCURRACY TO READ PERCENTILE COLOUR-CODED TABLE
3. LANGUAGES ARE CONVERTED TO ONE WITH EMBEDDED ACCURRACY



WHAT DO WE LOSE?

1. HISTORICAL PERSPECTIVE

2. ACTUALS

Percentile Report

Analysis **DOHNE MERINOS** Dated 21-Jan-17



Animals born in **2015** Count **19563**

Band	Bwt kg	Vwt kg	Mwt kg	Pwt kg	Plat mm	Pernd mm	Ywt kg	Ylat mm	Yernd mm	Ycdw %	Yglw %	Yld u	Yldcv %	Hec %	NLW %	Psc cm	Dohne
0	-0.26	7.2	2.9	8.9	1.4	3.0	12.6	1.7	3.7	32	34	-2.2	-3.1	-39	20	3.0	194.9
1	0.01	5.6	2.0	6.7	0.8	1.9	8.4	1.0	2.3	18	18	-1.6	-2.1	-36	14	2.2	170.1
2	0.04	5.3	1.8	6.3	0.7	1.7	7.8	0.9	2.1	17	16	-1.4	-2.0	-30	12	2.1	166.1
3	0.06	5.1	1.7	6.1	0.7	1.6	7.5	0.8	1.9	16	15	-1.3	-1.8	-28	11	2.0	163.1
4	0.08	5.0	1.6	5.9	0.6	1.5	7.2	0.8	1.8	15	14	-1.3	-1.8	-26	11	1.9	160.9
5	0.09	4.8	1.5	5.7	0.6	1.4	7.0	0.7	1.8	14	13	-1.2	-1.7	-24	10	1.8	159.0
10	0.13	4.4	1.3	5.2	0.5	1.2	6.4	0.6	1.5	12	11	-1.0	-1.5	-12	8	1.7	153.1
15	0.15	4.1	1.2	4.8	0.4	1.1	5.9	0.5	1.3	11	10	-0.9	-1.3	-7	7	1.5	149.2
20	0.17	3.9	1.0	4.5	0.4	1.0	5.6	0.5	1.2	9	8	-0.8	-1.2	-4	6	1.4	146.1
25	0.18	3.7	0.9	4.3	0.3	0.9	5.3	0.4	1.1	9	8	-0.7	-1.1	0	5	1.3	143.5
30	0.20	3.5	0.8	4.1	0.3	0.8	5.0	0.4	1.0	8	7	-0.6	-1.0	2	4	1.3	141.0
35	0.21	3.4	0.8	3.9	0.2	0.7	4.8	0.3	0.9	7	6	-0.5	-0.8	5	4	1.2	139.0
40	0.22	3.3	0.7	3.7	0.2	0.6	4.5	0.3	0.8	6	5	-0.5	-0.8	7	3	1.1	136.9
45	0.23	3.1	0.6	3.6	0.2	0.6	4.3	0.2	0.8	6	5	-0.4	-0.7	9	2	1.1	134.9
50	0.25	3.0	0.5	3.4	0.1	0.5	4.1	0.2	0.7	5	4	-0.3	-0.6	11	1	1.0	133.0
55	0.26	2.9	0.5	3.2	0.1	0.4	3.9	0.2	0.6	5	4	-0.3	-0.5	15	1	0.9	131.1
60	0.27	2.7	0.4	3.0	0.1	0.4	3.7	0.1	0.5	4	3	-0.2	-0.4	18	0	0.9	129.0
65	0.28	2.6	0.3	2.9	0.0	0.3	3.4	0.1	0.4	3	2	-0.1	-0.3	21	-1	0.8	127.0
70	0.30	2.4	0.2	2.7	0.0	0.2	3.2	0.0	0.3	3	2	0.0	-0.2	23	-2	0.7	124.8
75	0.31	2.2	0.1	2.4	-0.1	0.1	2.9	0.0	0.3	2	1	0.0	-0.1	26	-3	0.6	122.6
80	0.33	2.0	0.0	2.2	-0.1	0.0	2.6	-0.1	0.1	1	0	0.1	0.0	29	-4	0.5	120.0
85	0.35	1.8	-0.1	1.9	-0.2	-0.1	2.3	-0.1	0.0	0	-1	0.3	0.2	33	-5	0.4	116.9
90	0.37	1.5	-0.2	1.6	-0.2	-0.2	1.8	-0.2	-0.1	-1	-2	0.4	0.4	37	-6	0.3	113.1
95	0.41	1.1	-0.4	1.0	-0.3	-0.4	1.1	-0.3	-0.3	-3	-4	0.7	0.7	40	-8	0.0	108.1
96	0.42	0.9	-0.5	0.8	-0.4	-0.4	0.9	-0.3	-0.4	-3	-4	0.7	0.8	43	-8	0.0	106.7
97	0.44	0.8	-0.5	0.7	-0.4	-0.5	0.6	-0.4	-0.5	-4	-5	0.8	0.9	44	-9	-0.1	105.1
98	0.46	0.6	-0.6	0.4	-0.5	-0.6	0.2	-0.5	-0.6	-5	-6	1.0	1.1	45	-10	-0.3	103.0
99	0.49	0.2	-0.8	-0.1	-0.6	-0.8	-0.3	-0.5	-0.8	-6	-7	1.2	1.4	52	-11	-0.5	99.9
100	0.70	-1.8	-1.9	-3.1	-1.1	-2.0	-4.4	-1.3	-1.9	-19	-20	3.5	3.6	71	-20	-2.5	75.2

ANOMALIES

SIRE RF090577 TRAIT ADJUSTMENT IN OLD AGE

MONTH	YEAR	PROGENY	FLKS	MWWT	WWT	YWT	YFAT	YEMD	YFD	YCFW	YFDCV	NLW	DOHNE INDEX
Sept	2015	559	4	0.1	1.4	1.0	0.2	1.1	-1.8	9.6	0.3	-5.0	123.4
Feb	2016	641	4	0.5	1.6	1.0	0.2	1.1	-1.8	9.8	0.3	-5.0	127.1
Aug	2016	641	4	1.1	1.7	0.8	0.1	1.2	-1.7	11.4	0.2	2.0	141.6

PERCENTILE CHANGES

DATE	DATE	MWWT	WWT	YWT	YFAT	YEMD	YFD	YCFW	YFDCV	NLW	DOHNE INDEX
Sep-15	Aug-16	55	0.6	0.1	12	0.5	0	0.5	0.5	45	49



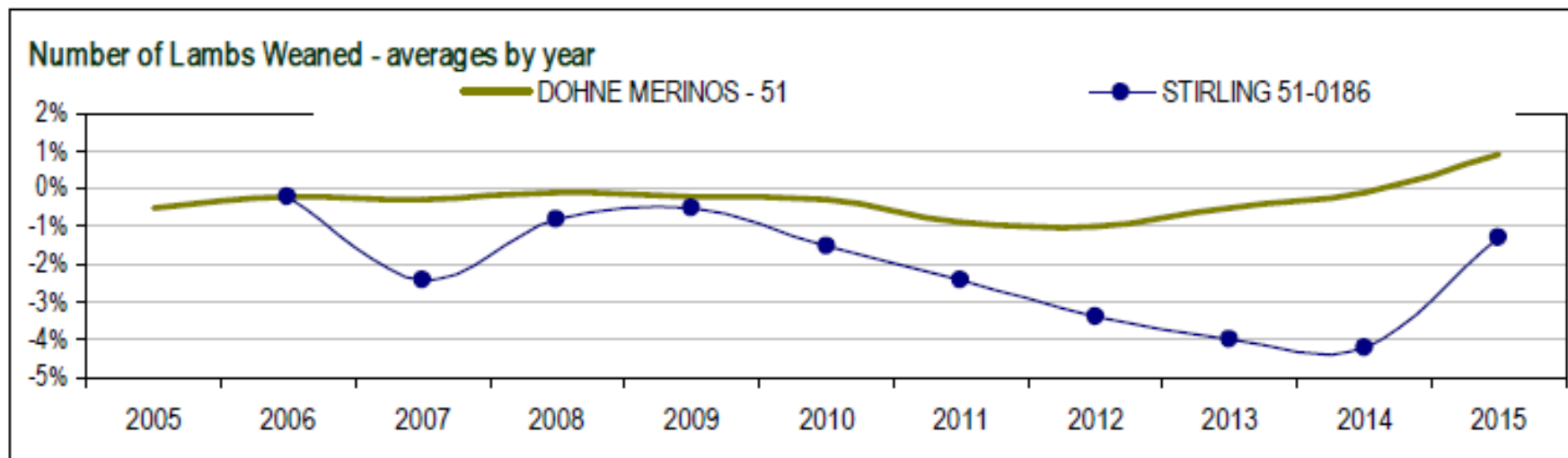
NLW ANOMALY FREQUENCY FOR OLD AGE EWES SEPT 2015

Accrued Daily Wean Ratio (DWR)

UARDRY DAM	PROGENY NO	NLW PERCENTILE	STIRLING (DWR)		STIRLING DAM	PROGENY NO	ACTUAL NLW	NLW PERCENTILE	MWWT PERCENTILE	STIRLING (DWR)
UD030347	11	99	4/0.68		ST060015	11	8	92	45	6/0.56
UD041693	13	77	5/0.65		ST060078	10	9	10	57	6/0.72
UD050400	9	85	6/0.51		ST060090	12	11	10	7	6/0.61
UD050508	11	40	6/0.63		ST070003	10	10	90	30	6/0.81
UD050539	8	70	2/0.37		ST070030	1	0	85	87	-----
UD050848	15	0.1	6/0.83		ST070032	7	7	90	99	6/0.48
UD050876	7	0.1	4/0.46		ST070051	12	7	15	10	6/0.54
UD050981	12	47	5/0.68		ST070136	6	5	40	65	3/0.48
UD051122	11	85	6/0.58		ST070174	7	6	85	7	5/0.59
UD051177	9	70	5/0.71		ST080047	8	8	47	75	4/0.76
UD051323	12	92	2/0.81		ST080054	9	9	0.4	70	5/0.86
UD051675	11	70	6/0.73		ST080060	8	8	47	25	5/0.73



STIRLING NLW VS DOHNE NLW GRAPH



1. THE DECLINE FROM 2006 IS DROUGHT FEED INDUCED

2. THE SLOW DECLINE FROM 2008 IS CLIMATE INDUCED

3. THE SHARP RISE FROM 2014 IS DUE TO INCREASED LINKAGE

4. 2014 COUNT

- 180 UARDRY EWES OR 54% WITH AVERAGE NLW OF 77 PERCENTILE
- 157 STIRLING EWES OR 46% WITH AVERAGE NLW OR 55 PERCENTILE

TWIN LAMB SYNDROME

IDENTITY		FEB 2016 YCFW	JUNE 2016 ACTUAL	AUG 2016 YCFW
UD071409	DAM	15.5%		16.7%
ST150014	PROGENY	12.8%	4.5kg	22.4%
ST150020	PROGENY	11.8%	3.9kg	11.9%
GROUP AVERAGE			3.5kg	



SIRES - TOM, DICK & HARRY

AUG 2014 ANALYSIS						
IDENTITY		WWT	MWWT	PWWT	YEMD	YCFW
MD137021	TOM	2.4	1.3	2.9	0.9	14.1
MD137141	DICK	1.9	-0.3	1.9	0.1	17.2
SEPT 2015 ANALYSIS						
IDENTITY		WWT	MWWT	PWWT	YEMD	YCFW
ST140079	HARRY	5.8	-0.7	8.2	-0.1	16.7
7 FEB 2017 ANALYSIS						
IDENTITY		WWT	MWWT	PWWT	YEMD	YCFW
MD137021	TOM	4.1	0	5.2	1.4	10.6
MD137141	DICK	2.6	0.4	3	0.1	12.4
ST140079	HARRY	2.6	0.1	4.8	-0.2	14.7
IDENTITY	FAMILY	MAIDEN	MWWT	PWWT	YEMD	YCFW
TOM'S EWES	MEAT	36%	0.2	2.3	1.2	2.3
DICKS EWES	WOOL	49%	0.2	3.1	0.5	8
HARRY'S EWES	WOOL	43%	0.3	3	0.4	7.8
IDENTITY	AI NO	SCAN PREG	MULTI-WEAN	NLW	WEAN WT	HEAVIST WT
TOM	39	25	16	30	37.1	51
DICK	60	41	22	46	35.6	46.5
HARRY	55	29	17	35	32.7	42

THINGS WE CAN DO

BIRTH RECORD, WOOL, MUSCLE, EFFICIENCY,
SHOWS, DATA DAY OF BIRTH RECORDS

DAM	PROGENY	DOB	WEAN DATE	WEAN WT	DWG
UD120147	ST150089	22/09/2015	20/12/2015	41	461
UD121845	ST150074	14/08/2015	20/12/2015	43.5	340
DAM	PROGENY	DOB	WEAN DATE	WEAN WT	DWG
UD120147	ST150089	2/09/2015	20/12/2015	41	376
UD121845	ST150074	2/09/2015	20/12/2015	43.5	399

ST150089 IS DISCOUNTED 19%

ST150074 IS INFLATED 17%

ADVANTAGE 36%

1. LATE LAMBS EXPERIENCE WORSENING CONDITIONS TO EXPRESS

2. ACTUALS WITH BIRTH AVERAGING CULLS TOP LAMBS

CHANGE 250 DAY WOOL MEASUREMENT

1. WOOL WEIGHT SIMPLIFIED = FRAME X SKIN

2. EARLIER WOOL WEIGHT MEASUREMENT FAVOURS FRAME – IT EXPRESSES EARLIER

ANSWER

1. CONTINUE QUALITY MEASUREMENT AT 250 DAYS

1. LENGTHEN QUANTITY MEASUREMENT TO 2 YEAR EWE ONLY AND LINK BACK TO RAMS.
USE PARENTAL LINKAGE FOR SALE DAY.



MUSCLE

1. TOO MUCH ATTENTION TO LOIN DEPTH

2. MORE ATTENTION TO

- BUTT WIDTH
- BUTT DEPTH
- LOIN LENGTH



EFFICIENCY IS AN ANOMALY

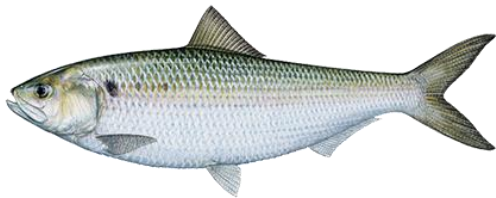
1. THE ELEPHANT IN THE ROOM

2. ANGUS MATURE COWS WEIGHTS HAVE INCREASED FROM 500 TO 800kgs SINCE 1961

3. IS THIS THE MAIN DRIVER OF WEIGHT GAIN

4. THE SHEEP PROBLEM IS DUAL – HANDLING SIZE AND EFFICIENCY

5. CONVERSION RATES;
FISH 1.2 TO 1, CHICKEN 2 TO 1, PIG 3 TO 1
SHEEP 4 TO 1, CATTLE 7 TO 1
SMALL IS MORE EFFICIENT



SHOWS

1. DROP ALL ASBV'S DATA USE BACK TO 50% FOR ANIMALS WITHOUT PROGENY MEASUREMENTS - INACCURRACIES
2. SUBJECTIVELY JUDGE FOR TYPE IN THERE CLASSES
 - MEAT – WIDTH, MUSCLE, DEPTH, LENGTH ETC.
 - MATERNAL – WEDGE SHAPE AND DEPTH ETC.
 - WOOL – FRAME, SKIN, QUALITY ETC.



DATA

1. 2 YEARS AGO COMPUTER FOR THE FIRST TIME DEFEATED THE WORLD CHESS CHAMPION
2. WEEKS AGO COMPUTERS FOR THE FIRST TIME DEFEATED THE WORLD POKER CHAMPION

3. MORE OF

- CLIMATE DATA
- RATION DATA
- GENETIC DATA
- SHEEP TYPE DATA



SUMMARY

IN 2009 I STARTED MY OWN STIRLING ACCRUED DAILY WEAN RATIO RECORDING SYSTEM
BECAUSE I HAD GRAVE DOUBTS ABOUT PASTORAL ZONE FEED AND CLIMATIC LINKAGE
ABILITY TO DELIVER THE TIGHT GENETIC SPECTRUM INHERITED WITHIN THE ENCLOSED PIG
AND POULTRY INDUSTRY.



THE GOOD THINGS IN LIFE ARE FREE

