

ICBF Beef Industry Meeting re: New Developments.

Tullamore Court Hotel. 26th August 2008



Agenda

- New beef performance evaluation Ross
 - Additional data
 - Inclusion of foreign data
 - ET dam issue with weaning wt
 - Move to MIX99 for maternal weaning weight
- Update on linear, calving & CIS evaluations -Francis
- New Economic Values Tim
- Overall impact of changes Andrew
- Update on genomics Brian.
- Any other business.



Update on Beef Performance Evaluation

Beef Industry Meeting 26th August 2008 Ross Evans



Key additions

- Additional data
- Inclusion of foreign data
- ET dam issue with weaning wt
- Move to MIX99 for maternal weaning weight

1. Additional data

•Ai bred stock in new suckler herds

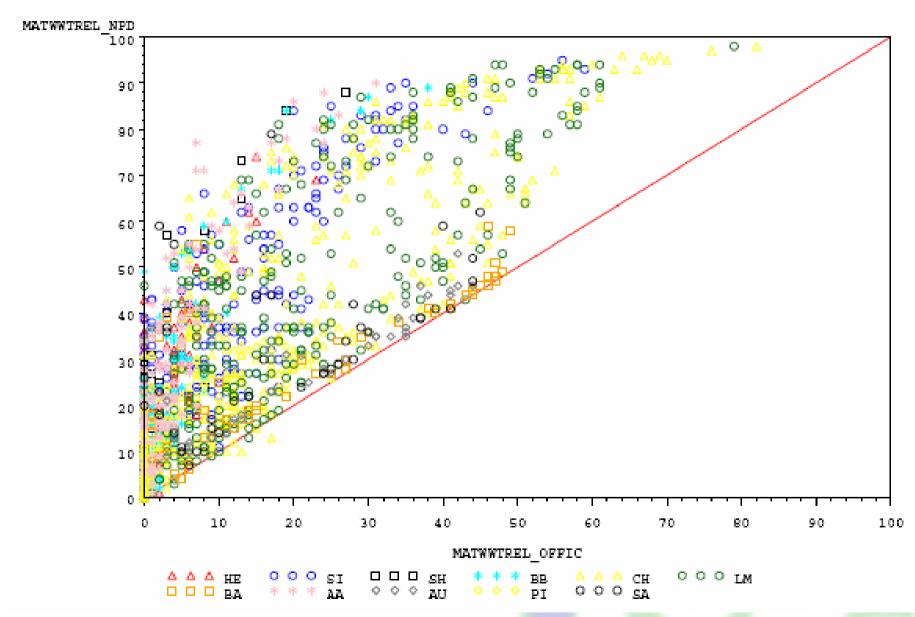
•Additional Tully data

TYPE	May-08	Aug-08	EXTRA		
Carcass weight	446,030	505,917	59,887		
Carcass conformation	445,725	505,613	59,888		
Carcass fat	445,465	505,352	59,887		
Cull cow weight	101,181	122,493	21,312		
Weaning weight	75,708	83,825	8,117		
Liveweight	89,055	102,612	13,557		
Feed Intake	2,592	3,476	884		
Mart calf quality	23,739	31,349	7,610		
Linear score	94,476	97,854	3,378		
<u>Total</u>	1,723,971	1,958,491	234,520		
age at 1st calving	210,841	276,102	65,261		
calving interval	118,183	170,580	52,397		
lifespan	210,841	276,096	65,255		
survival	175,004	227,481	52,477		
Total	714,869	950,259	235,390		

2. Inclusion of foreign data

- Deadline Monday 18th August
- Official French evaluation Spring 2008 – direct and maternal weaning weight, 31,371 animals
- · UK Simmental data: 178 animals
- Worked closely with AA missed deadline.

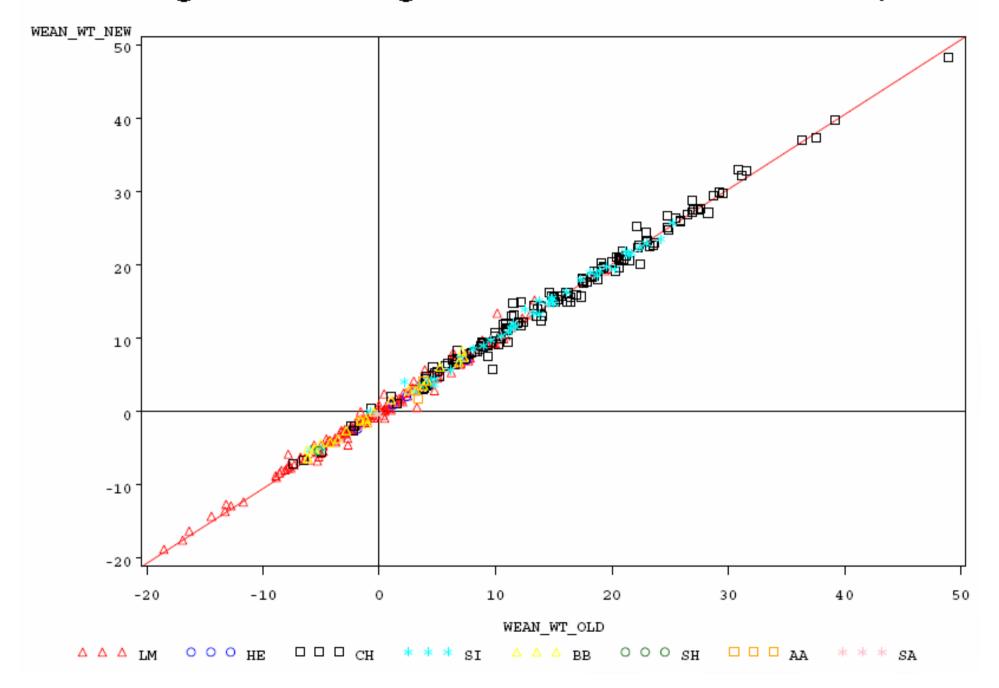
Alsires Mat weaningwt reliability - old vs new



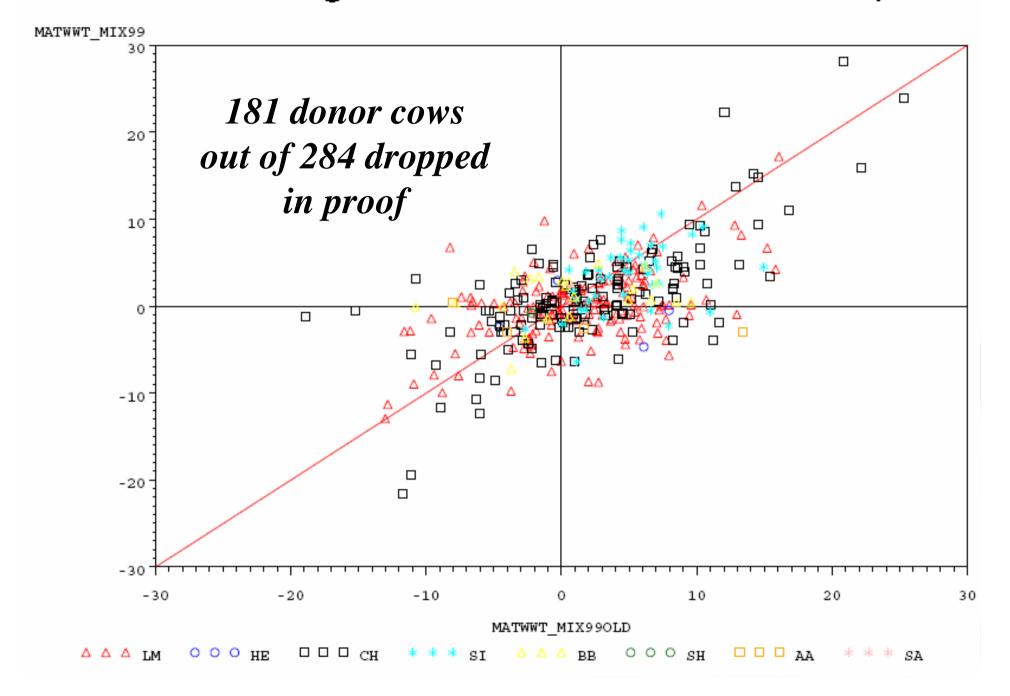
3. ET animals

- Effect of milky recipient dam
- 803 ET animals in evaluation with weaning weight out of 284 donor dams, one fifth had no recipient

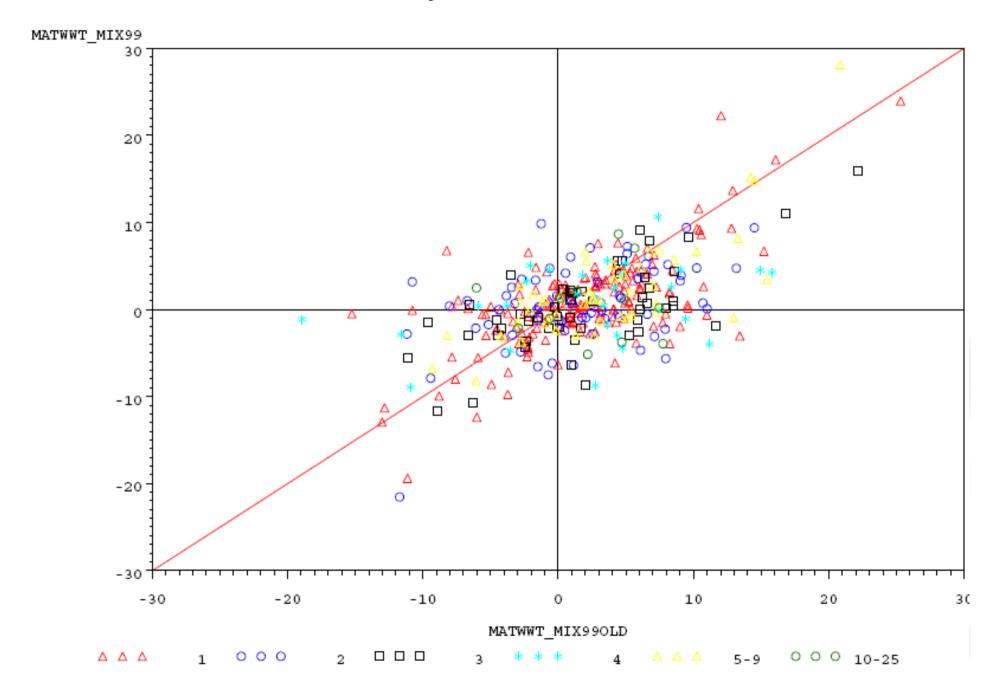
Weaning wt - existing vs new evaluation with ETrecips



Maternal weaning wt - old MIX99 vs MIX99: ETrecips



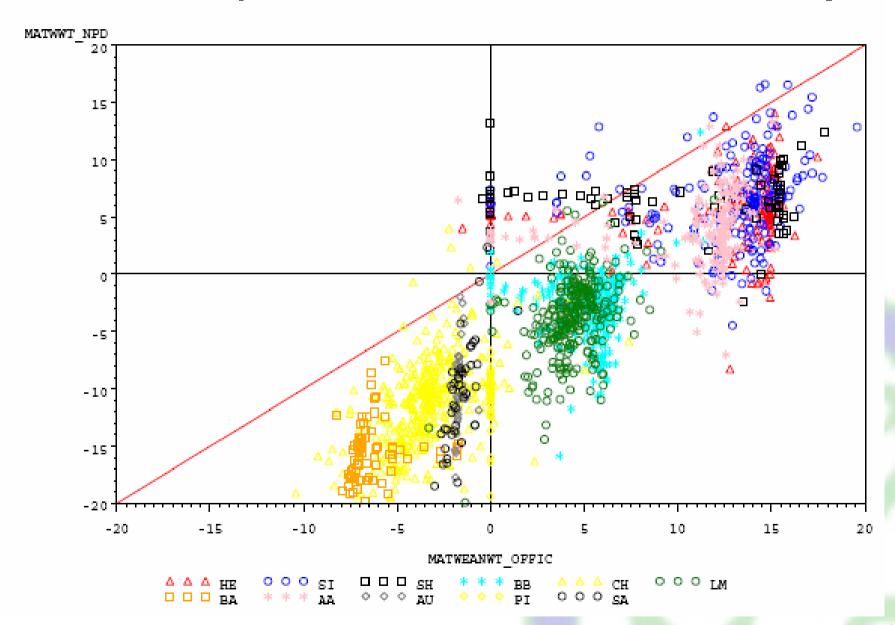
Maternal wwt differences - by number of ET calves per donor dam



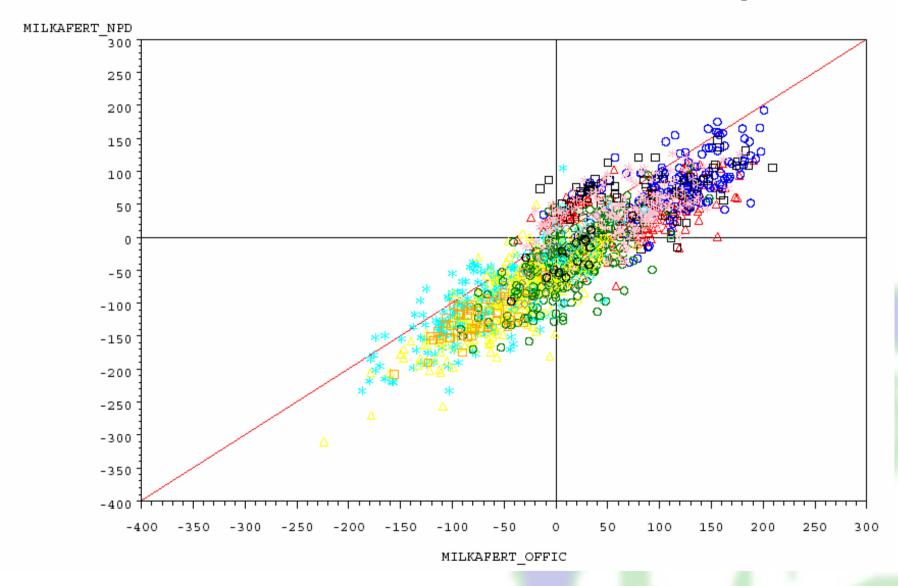
4. Move to Mix99

- New evaluation software for maternal weaning weight.
- Benefits;
 - Include foreign data
 - Combined evaluation (all beef performance traits).
 - Includes reliability.

Alsires Mat weaningwt - old ASREML vs new data MIX99 with foreign



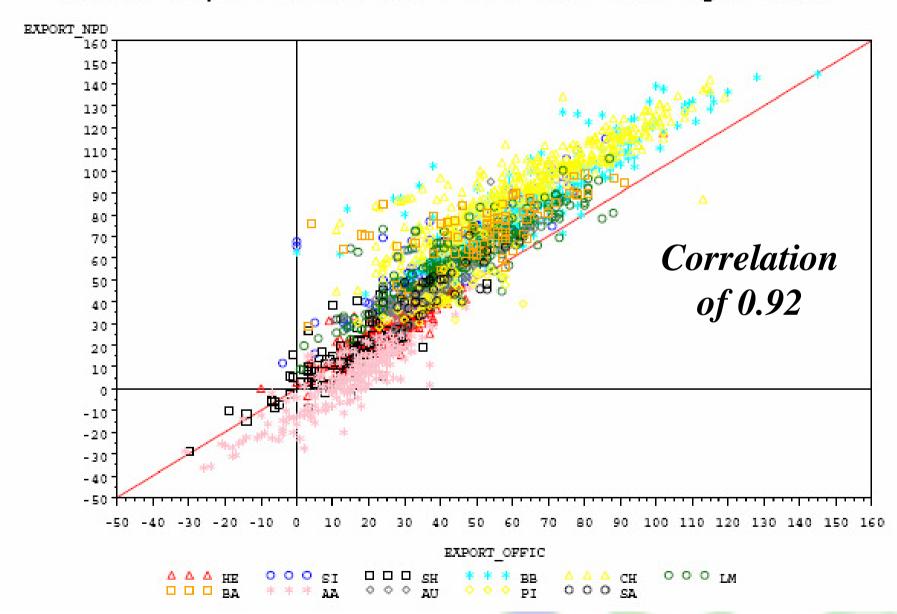
Alsires MILK & FERTILITY: old v new data & foreign EBVs



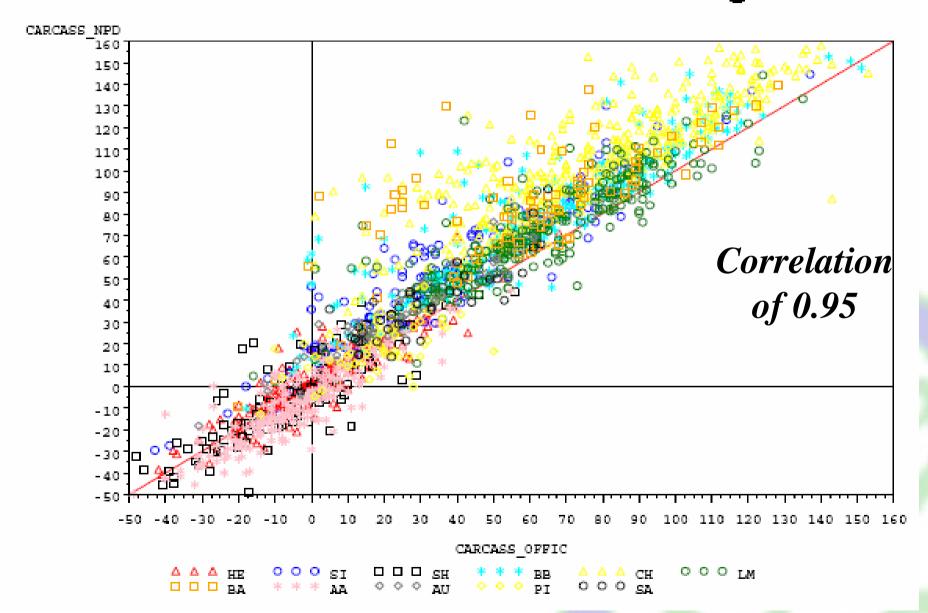
Impact of new data.

- Substantial changes in quantity & quality of data.
- Increases in accuracy of evaluations.
- Correlations generally high across sub-indexes & SBV.

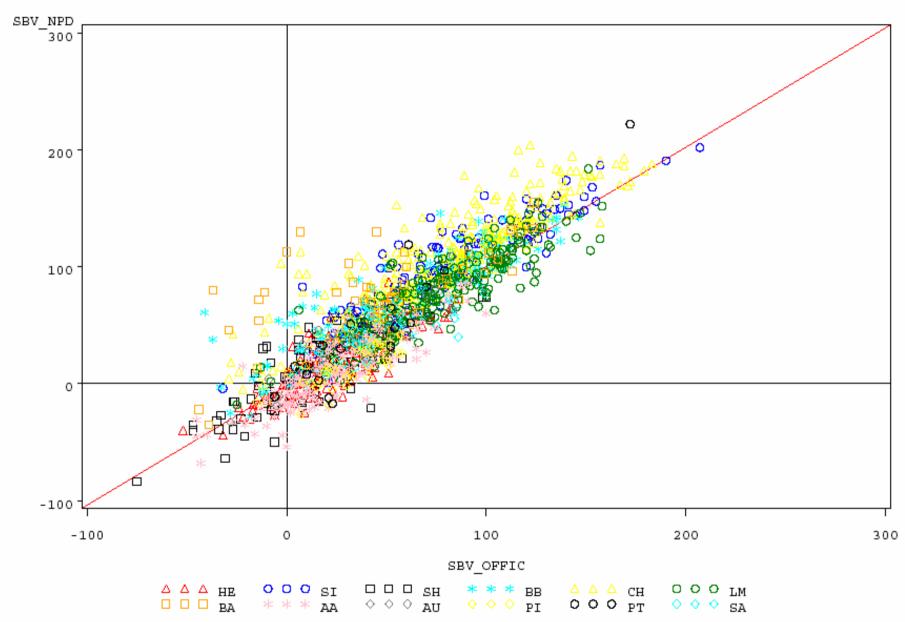
Alsires Export Index : old v new data & foreign EBVs



Alsires Carcass Index : old v new data & foreign EBVs



Alsires SBV: old v new data & foreign EBVs





Update on linear, calving & beef CIS Evaluation

Beef Industry Meeting 26th August 2008 Francis Kearney



Beef Linear Type

- Across Breed Evaluation
- Include foreign data
- Update base
- Publish composites and individual type traits

Beef Type

Breed	Records	Percent
AA	1304	1.11
AU	740	0.63
BA	419	0.36
BB	564	0.48
CH	38589	32.94
HE	2361	2.02
LM	45899	39.18
PI	173	0.15
PT	85	0.07
SA	631	0.54
SH	131	0.11
SI	9343	7.98
<u>COM</u>	<u>16902</u>	14.43
Total	117141	

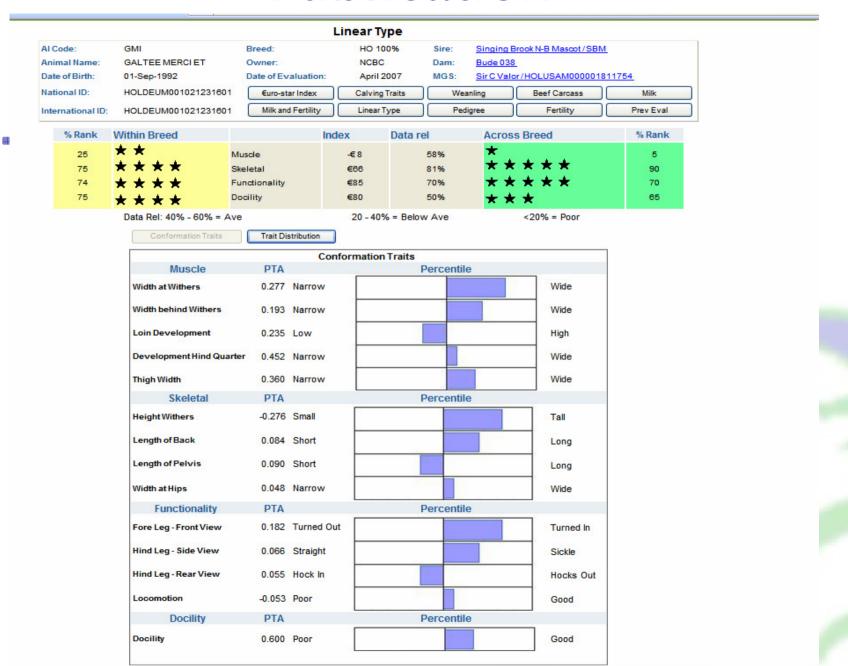
Beef Linear

- · Include foreign data
 - Principle the same as with Beef Performance
 - Need individual trait information from foreign country
- Base
 - Updated to PB animals born from 03-06 with score between 150-300d

Beef Linear

- Waiting on files from France
 - New few weeks.
- Evaluations and publication of test proofs.
- Meeting with industry ~ end Sept.
- Implementation & publication

Publication



Body Condition Score

- Perception Animals on high level of feeding have better BLUPs
 - E.g., males v females; cattle for show/sale v cattle not
- Currently no adjustment for BCS
- All animals in same contemporary groups

Body Condition Score

- Investigate if BCS is biasing breeding values
- · How to handle it
 - Separate CG for animals with high BCS?
 - Include BCS in model for the traits?
 - Pre-adjustment for BCS?
- Scoring in commercials?

Docility

- Across breed docility proofs have been published.
- Proofs are consistent with raw data (breed average vs hys average).
- New across breed docility proofs will be beneficial to farmers.
- Access to new docility data from Suckler Cow Welfare Scheme.
- Looking at including this data in future evaluations for docility.

Docility - Across Breed Proofs

Breed	New Doc	Raw Doc	HYS Doc	Diff
AA	99.4	7.21	7.09	0.12
AU	100.3	7.00	6.90	0.10
BA	95.8	7.02	7.11	-0.09
ВВ	119.4	7.30	6.94	0.36
CH	106.5	7.62	7.53	0.09
HE	112.6	7.89	7.64	0.25
LM	92.3	7.11	7.11	0.00
PI	93.0	7.33	7.42	-0.09
SA	96.8	7.43	7.38	0.05
SH	112.0	7.80	7.58	0.22
SI	101.4	7.56	7.43	0.13
Grand	100.5	7.35	7.26	0.09

Calving Performance

- Across Breed Evaluation
- Condition of SCWS to record sire and calving score
- Resulted in large increase in data
- ~850,000 records between March and August

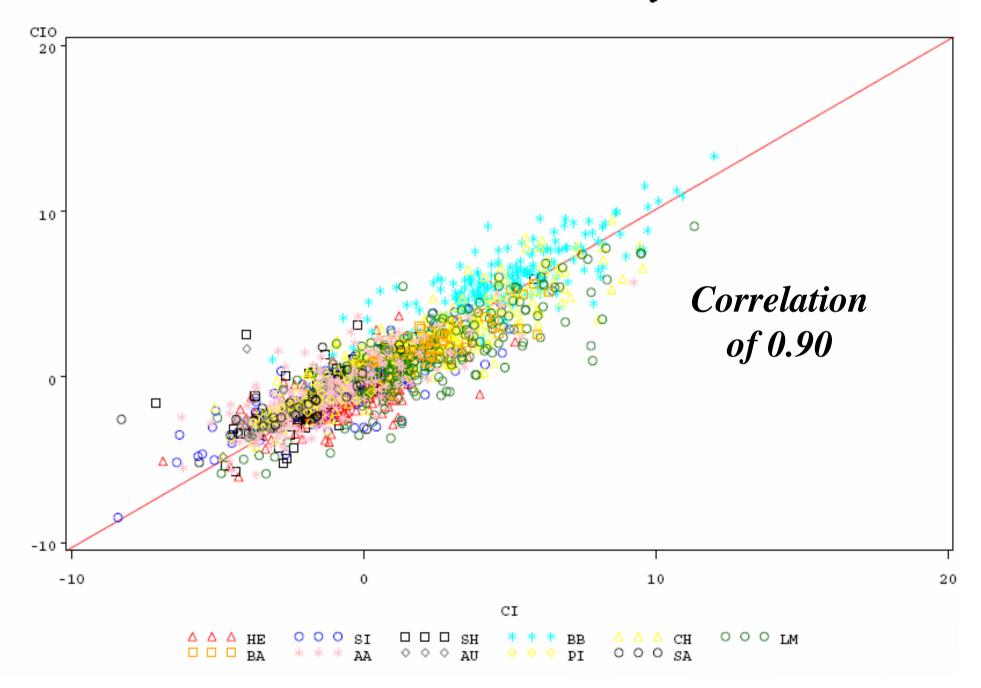
Calving Performance

- All known ET calves have calving score set to missing
- Slight reduction in reliability for some animals
- Overall correlations are high >0.9

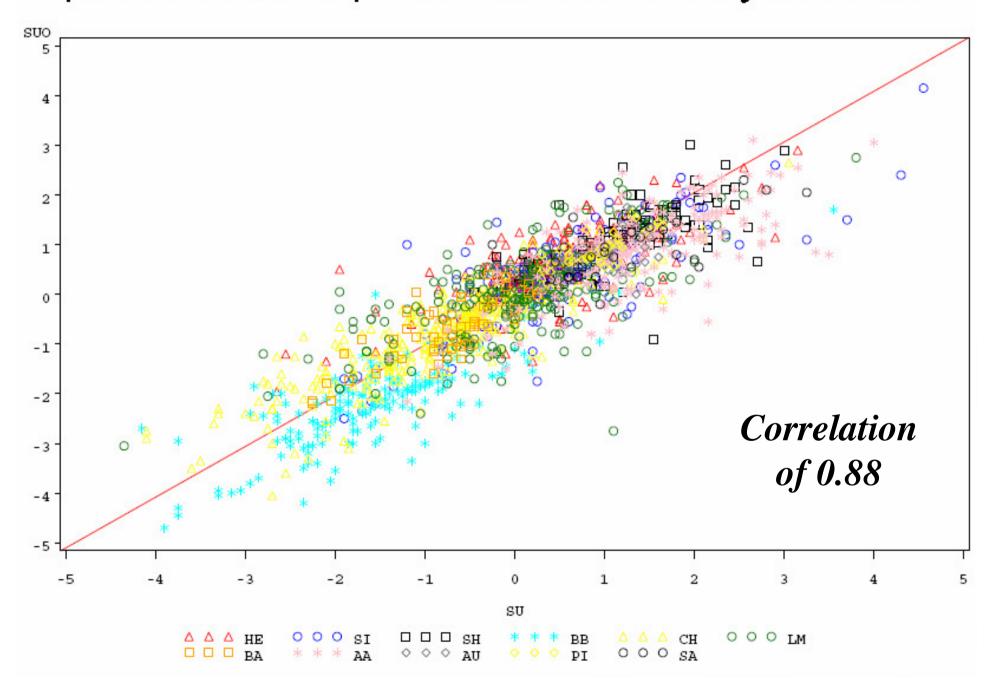
Beef Calving Interval & Survival (CIS)

- · 20% increase in CIS data.
- · No change in approach.
- Including later lactations next years work.

Cl Feb08 vs Cl Jul08 no reliability restriction



pd SUV Feb08 vs pd SUV Jul08 no reliability restriction





Overall Impact including "where next"?

Tullamore Court Hotel.

26th August 2008

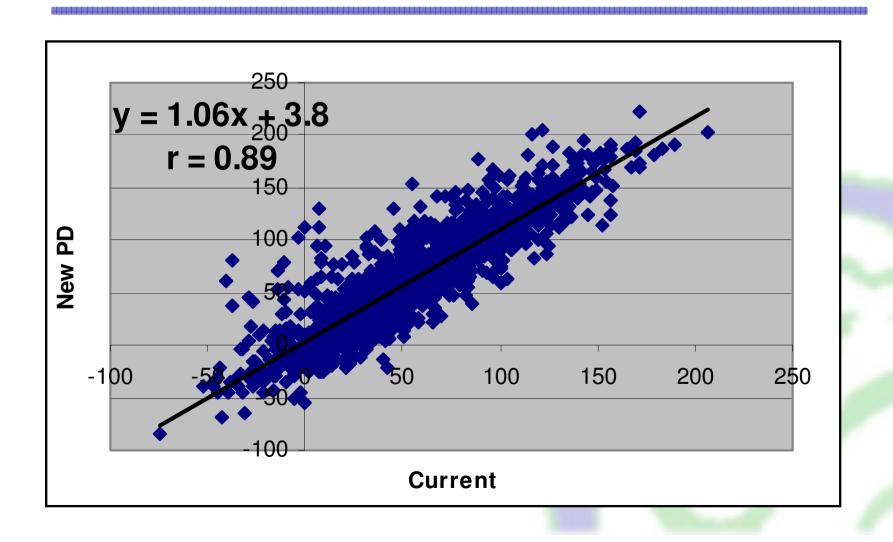
Andrew Cromie



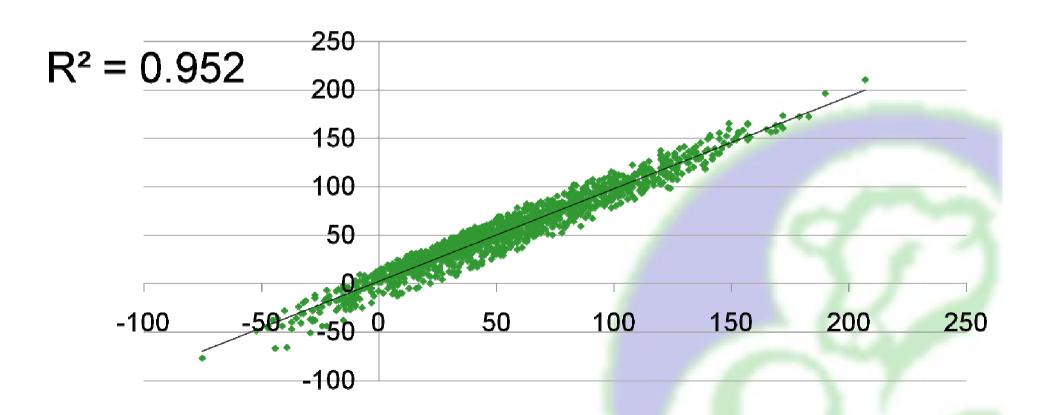
Review of changes.

- New evaluations for beef traits
 - Beef performance; New data, foreign,
 ET's & Software Ross.
 - Calving & CIS; New data & ET's –
 Francis.
- New Economic Value's Tim.
- Overall impact of these changes??

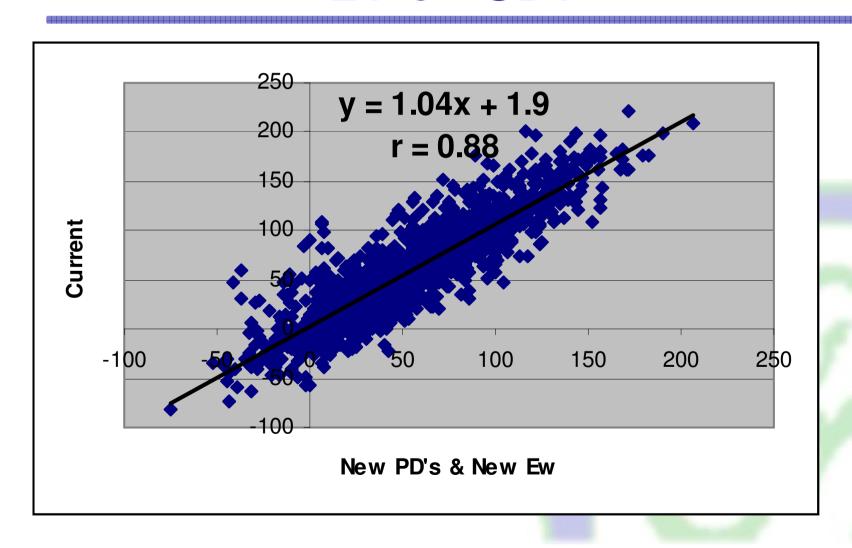
Impact of new proofs - SBV



Impact of New EV's - SBV



Impact of new proofs & new EV's - SBV



Impact of new proofs & new EV's - SBV

Breed	All	AA	AU	ВА	BB	СН	HE	LM	PI	PT	RM	SA	SH	SI
Number of Al														
Sires	1441	173	28	57	193	269	184	213	44	17	4	31	85	143
SBV current	53.9	24.2	32.6	44.6	57.6	81.5	25.6	76.0	30.6	43.9	9.8	51.1	13.3	78.9
SBV new PDs	61.2	10.7	36.9	72.8	69.9	110	19.9	77.0	15.4	48.1	3.5	52.4	10.9	97.1
SBV new EVs	53.6	33.3	33.5	25.7	54.4	70.4	34.7	73.4	31.5	44.5	9.8	50.4	19.5	85.0
SBV new PDs &														
new EVs	58.2	10.2	35.8	50.0	66.6	98.0	25.3	71.8	11.9	46.9	-0.5	48.4	13.6	106
SBV rel curr	49.0	49.9	34.6	37.5	49.0	54.0	42.3	62.7	22.1	25.7	22.8	46.0	34.5	54.9
SBV rel new	55.9	55.8	43.7	45.9	57.0	62.0	47.6	68.8	29.8	34.8	26.0	54.9	39.7	60.4

Where next - SBV.

- Release draft proofs for Al sires tomorrow.
 - Review base for maternal weaning weight.
- Feedback from industry by this Friday.
- Review feedback
- Proceed to implementation as official – Monday 1st September.

Where next - Linears

- Same approach as beef
 - Foreign files, test evaluation & feedback – end September.
- Docility & polledness.
 - Continue to collect data.
 - New "test" evaluations.
 - EV work ~ completed
 - Publish PD's for docility in interim.
 - Proceed to implement next year.