

**Progress Report
For MLA Project BFGEN.006**

Establish a Multibreed Database for Beef Cattle

March 2001

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Background

The MLA has commissioned ABRI to establish a database to store selected data from beef cattle research in a BREEDPLAN standard format.

Progress on Establishing the Database System

The ABRI has written software that allows the research data to be:

- input manually and/or via electronic files
- stored in a BREEDPLAN standard format
- extracted into a standard format suitable for AGBU research.

The system has been populated with test data of the Struan information that was available from the Australian Limousin Society database. While this is only a subset of the total Struan data, it demonstrates the capability of the Multibreed Database system to collect and store data.

The test data included:

- one herd (Struan)
- 1224 animal registrations
- 1635 performance (weights) records
- 98 carcass records

Appendix I outlines some of the screens available to the processing system.

Appendix II has sample reports generated from the batch registration system for loading animal pedigrees, etc.

Appendix III has sample reports generated from loading performance and carcass data.

These reports demonstrate that the system is available and functional. Due to the nature of research data, there may need to be further fine tuning of the system software as actual data is delivered to ABRI.

The data input specifications for electronic input of pedigree details is included in Appendix IV. Specifications for electronic input of performance data is in Appendix V. Research groups will be required to submit their data to the Multibreed database using these formats.

Research Data

Four research data sets have been targeted in the MLA contract:

- CRC Northern Crossbreeding
Dr Hans Graser of AGBU will coordinate the delivery of this data to ABRI., Dr Graser's team is aware of the requirements for sending data to the database.
- Grafton Project
Dr Graser has also consented to work with Dr Helen Hearnshaw and the Grafton team to deliver this data to the database.

- **Struan**
Dr Mick Deland is currently finalising the Struan database and combining individual data files into a single Struan data set. When this is ready, Dr Deland will liaise with ABRI to deliver the data to the Multibreed database. This is expected in April 2001. Note that the Struan trial data from the Australian Limousin Breeders Society was for testing purposes only and will not be loaded in the final system.
- **Southern Crossbreeding SBEF.006**
Phil Franklin is currently working on delivering a trial data set to ABRI. This trial data is expected by late March 2001.

General Discussion

While the Start Date of the contract was 2 Jan 2001, the contract was not signed off until 22 Jan, 2001. Despite this initial delay, Milestone 1 of the contract has been completed.

Jack Allen
Technical Director

22 March, 2001

APPENDIX I

**OUTLINE OF THE MAIN SCREENS AVAILABLE IN THE PROCESSING
SYSTEM**

```

ACTION:1                               MBDB - MAINMENU
+-----+-----+
-- Members -----
01 Maintenance

-- Registrations -----
10 Interactive
11 Batch
12 Multiple Sires

-- Transfers -----
20 Maintenance

-- Enquiries -----
30 General
31 Pedigree
32 Herd Inventory

-- Miscellaneous -----
40 Maintenance Menu
41 Reports Menu
42 Certificate Reissues
43 Miscellaneous Menu

-- Breedplan -----
50 BREEDPLAN Menu
    
```

```

MODE:F ACTION:1                       MBDB - MEMBER MAINTENANCE
01 Member Ident. ST                    02 Type F Full                        03 Status Financial
04 Prefix STRUAN                       05 Region
-----PROPERTY-----+-----SORT NAMES-----
07 Name      MICK DELAND                |21 Property   STRUAN
08 Address   STRUAN RESEARCH STATION    |22 Postal     STRUAN
09                                     +-----PHONES-----
10                                     |23 Property 08 8762 9100
11 Postcode          12 State SA        |24 Postal
13 Country  AU Australia                |25 Fax
-----POSTAL-----+26 Mobile
14 Name      MICK DELAND                |27 Email DELAND.MICK@SAUGOV.SA.GOV»
15 Address   STRUAN RESEARCH STATION    +-----MISCELLANEOUS-----
16                                     |28 Joined 22/03/01 Resign
17                                     |29 Performance Record Y  GBP? Y
18 Postcode          19 State SA        |30 Adj_factors
20 Country  AU Australia
-----+-----
    
```

Batch Registration/Pedigrees

```

MODE: ACTION:1                BATCH REGISTRATIONS MENU
    
```

01	Prepare Batch Input File
02	Enquire/Edit Batch Input File
03	Preview Calf Regos/Recording
04	Run Calf Regos/Recording
05	Error Report Enquiry
06	Log File Enquiry
07	Batch Files Directory Review
08	Batch Files Deletion

Animal Enquiries

```

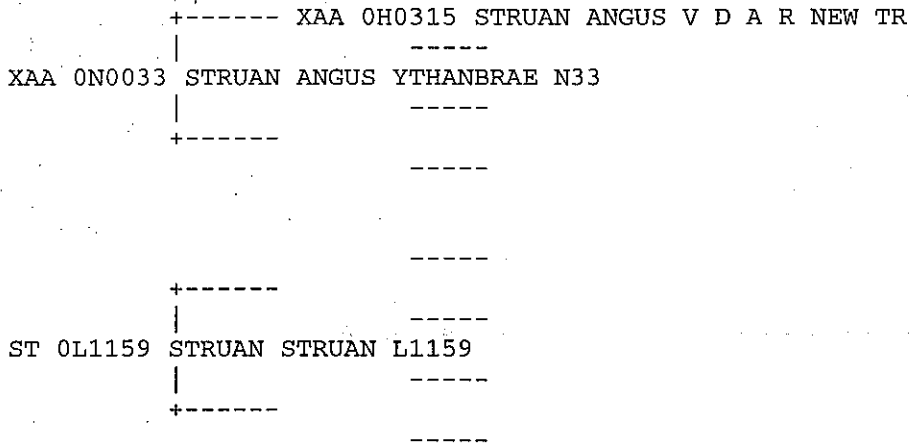
MODE:F ACTION:1                MBDB - ANIMAL ENQUIRIES
    
```

Animal Ident BHR PE0143	Still in Herd Recorded 22/03/01	Active Reg. Date
Animal Name STRUAN THE PINES E143		
Breeder ST MICK DELAND (AU)		
Orig.Owner ST MICK DELAND		
Curr.Owner ST MICK DELAND		
Birth Date 15/10/85	Accuracy (wks)	Tattoo E0143
Animal Sex F Female	No. in Birth 1	Horn
Birth Ease No Record		Colour
Reg Status C Commercial	Calving Year 1985	By ET N Generic N
Dam Id.		
Sire Id.		
	Serv. Date	Serv. Code N Natural
Birth Wght	Exclusion	Mgt Group
Recip. Id		
Foster Id		
Anim Breed LL 100.00%	%	%

MODE:F ACTION:1

MBDB - PEDIGREE ENQUIRY

Ident ST 0S7152 Tattoo S7152
 Sex S Steer Reg'n Status C Commercial
 Name STRUAN STRUAN S7152 Born 19/03/97
 Breeder ST MICK DELAND
 Owner ST MICK DELAND



MODE:F ACTION:1

MBDB - ANIMAL MAINTENANCE

	Still in Herd	Active
01 Animal Ident ST 0S7113	Recorded 22/03/01	Reg. Date
02 Animal Name STRUAN STRUAN S7113		
03 Breeder ST MICK DELAND		
04 Orig.Owner ST MICK DELAND		
05 Curr.Owner ST MICK DELAND		
06 Birth Date 11/03/97	07 Accuracy (wks)	08 Tattoo S7113
09 Animal Sex F Female	10 No. in Birth 1	11 Horn
12 Birth Ease No Record		13 Colour
14 Reg Status C Commercial	15 Calving Year 1997	16 By ET 17 Generic?
18 Dam Id. ST 0L1215	STRUAN STRUAN L1215	
19 Sire Id. XAA 0N0033	STRUAN ANGUS YTHANBRAE N33	
	20 Serv. Date 11/06/96	21 Serv. Code A I Sync.
22 Birth Wght 28	23 Exclusion	24 Mgt Group
25 Recip. Id		
26 Foster Id		

MODE: ACTION:1

MBDB - BREEDPLAN MENU

01 Performance Data Enquiries	30 Run Old Weights/Scanning Batch
02 Performance Data Maintenance	31 Performance Batch Menu
03 Carcase Data Maintenance	40 Breedplan Analysis
04 Feed Efficiency Maintenance	41 Diagnostics
05 Change Performance Herd	42 Load Analysed Herds
06 Merge Animals	43 EBV Extract
10 Perf. Recording Forms/Requests	44 Tidyup Herd Files
11 Scanning Forms	45 Group Diagnostics
12 Carcase Forms	46 B-Object Extract
13 Management Group Forms	
14 Recipient Dam Forms	50 Miscellaneous Menu
15 Herd Ancestry Forms	51 Statistics Menu
20 Data Book Maintenance	52 Reports Menu
21 Data Book Report	53 Herd Calving Periods
22 Charge Weights Report	54 Set Herd Calving Year/Season
23 Associated Herd Report	55 Archive Batch Files
24 Herd Performance Report	

APPENDIX II

**SAMPLE REPORTS FROM THE TEST LOAD OF STRUAN ANIMAL
PEDIGREES***

***Test Data supplied by the Australian Limousin Breeders' Society Ltd**

22/03/01
14:42

MBDB Batch Registrations Pre-Update Report
Batch: MBDB_REGO_4 Indexed: 22/03/01 14:42

Page 1

Batch Herd	On File	All Ids	for Calf	for Dam	for Sire	for Recip	for Fost	Join Sire
ARM	-	7	0	0	7	0	0	0
CPL	-	11	0	0	11	0	0	0
MDE	-	10	0	0	10	0	0	0
SF	-	16	0	0	16	0	0	0
ST	Y	404	202	202	0	0	0	0
TWR	-	9	0	0	9	0	0	0
XAA	-	59	0	0	59	0	0	0
XHH	-	43	0	0	43	0	0	0
XSD	-	47	0	0	47	0	0	0
Total	9	606	202	202	202	0	0	0

Herds NOT on file: 8

MBDB pre-update report for herds in batch: MBDB_REGO_4

Rec Cnt	Batch Herd	Calf Tattoo	Name-Suffix	R g	S x	T w	H p	E a	A i	Co l	F t	C e	Brth Wt.	Calv Year	Birthdate ccyymmdd	Calf Breed	Dam-Dam-Ident	Dam on-f	Sire-Sire-Ident	Sire on-f	PEDS dsbxa
161	ST	Q5216	STRUAN Q5216	C	S	1		A					51		19950327	HHHHHHHH ST 0J9334	C	XHH OK0208	C		
162	ST	Q5240	STRUAN Q5240	C	S	1		A					55		19950328	HHHHHHHH ST 0J9375	C	XHH OK0208	C		
163	ST	Q5259	STRUAN Q5259	C	S	1		A					46		19950329	HHHHHHHH ST 0F6330	C	XHH OK0208	C		
164	ST	Q5383	STRUAN Q5383	C	F	1		A					36		19950417	HHHHHHHH ST 0M2398	C	XHH OK0208	C		
165	ST	Q5412	STRUAN Q5412	C	F	1		A							19950416	HHHHHHHH ST 0M2071	C	XHH OK0208	C		
166	ST	Q5430	STRUAN Q5430	C	S	1		A					45		19950420	HHHHHHHH ST 0L1323	C	XHH OK0208	C		
167	ST	Q5434	STRUAN Q5434	C	F	1		A					38		19950421	HHHHHHHH ST 0M2487	C	XHH OK0208	C		
168	ST	Q5438	STRUAN Q5438	C	F	1		A					41		19950421	HHHHHHHH ST 0L1126	C	XHH OK0208	C		
169	ST	Q5446	STRUAN Q5446	C	F	1		A					44		19950421	HHHHHHHH ST 0K0565	C	XHH OK0208	C		
170	ST	Q5466	STRUAN Q5466	C	S	1		A					49		19950423	HHHHHHHH ST 0K0497	C	XHH OK0208	C		
171	ST	Q5476	STRUAN Q5476	C	S	1		A					15		19950424	HHHHHHHH ST 0M2122	C	XHH OK0208	C		
172	ST	Q5033	STRUAN Q5033	C	S	1		A					43		19950315	HHHHHHHH ST 0K0252	C	XHH 0M0604	C		
173	ST	Q5069	STRUAN Q5069	C	S	1		A					39		19950319	HHHHHHHH ST 0M2056	C	XHH 0M0604	C		
174	ST	Q5092	STRUAN Q5092	C	S	1		A					44		19950320	HHHHHHHH ST 0L1289	C	XHH 0M0604	C		
175	ST	Q5120	STRUAN Q5120	C	F	1		A					45		19950322	HHHHHHHH ST 0H8388	C	XHH 0M0604	C		
176	ST	Q5121	STRUAN Q5121	C	F	1		A					45		19950322	HHHHHHHH ST 0K0569	C	XHH 0M0604	C		
177	ST	Q5133	STRUAN Q5133	C	S	1		A					43		19950322	HHHHHHHH ST 0H8699	C	XHH 0M0604	C		
178	ST	Q5139	STRUAN Q5139	C	S	1		A					47		19950323	HHHHHHHH ST 0L1261	C	XHH 0M0604	C		
179	ST	Q5155	STRUAN Q5155	C	F	1		A					40		19950324	HHHHHHHH ST 0K0154	C	XHH 0M0604	C		
180	ST	Q5213	STRUAN Q5213	C	F	1		A					49		19950327	HHHHHHHH ST 0J9502	C	XHH 0M0604	C		
181	ST	Q5224	STRUAN Q5224	C	F	1		A					44		19950327	HHHHHHHH ST 0L1086	C	XHH 0M0604	C		
182	ST	Q5427	STRUAN Q5427	C	S	1		A					43		19950420	HHHHHHHH ST 0F6364	C	XHH 0M0604	C		
183	ST	Q5266	STRUAN Q5266	C	S	1		A					44		19950330	HHHHHHHH ST 0L1456	C	XHH 0M0604	C		
184	ST	Q5660	STRUAN Q5660	C	S	1		A							19950321	AAAAAAA ST 0K0468	C	XAA 0H0315	C		
185	ST	Q5097	STRUAN Q5097	C	S	1		A					30		19950320	HHHHHHHH ST 0D4522	C	XHH 0L0620	C		
186	ST	Q5032	STRUAN Q5032	C	S	1		A					36		19950315	HHHHHHHH ST 0L1260	C	XHH OK0208	C		
187	ST	Q5028	STRUAN Q5028	C	F	1		A					40		19950313	HHHHHHHH ST 0L1186	C	XHH 0M0604	C		
188	ST	Q5368	STRUAN Q5368	C	S	1		A					39		19950420	HHHHHHHH ST 0J9225	C	XHH 0M0604	C		
189	ST	Q5428	STRUAN Q5428	C	S	1		A					45		19950420	HHHHHHHH ST 0H8249	C	XHH 0M0604	C		
190	ST	Q5011	STRUAN Q5011	C	S	1		A					34		19950301	AAAAAAA ST 0J9292	C	XAA 0G0157	C		
191	ST	Q5054	STRUAN Q5054	C	F	1		A					31		19950318	AAAAAAA ST 0K0100	C	XAA 0G0157	C		
192	ST	Q5385	STRUAN Q5385	C	F	1		A					34		19950417	AAAAAAA ST 0M2460	C	XAA 0G0157	C		
193	ST	Q5222	STRUAN Q5222	C	S	1		A					41		19950327	SDSDSDSD ST 0H8392	C	XSD 0J0020	C		
194	ST	Q5502	STRUAN Q5502	C	F	1		A					35		19950428	SDSDSDSD ST 0F6133	C	XSD 0J0020	C		
195	ST	Q5176	STRUAN Q5176	C	F	1		A					37		19950325	SDSDSDSD ST 0L1293	C	XSD 0C0012	C		
196	ST	Q5351	STRUAN Q5351	C	F	1		A					52		19950410	SDSDSDSD ST 0H8477	C	XSD 0C0012	C		
197	ST	Q5431	STRUAN Q5431	C	F	1		A					43		19950420	SDSDSDSD ST 0F6128	C	XSD 0C0012	C		
198	ST	Q5470	STRUAN Q5470	C	S	1		A					44		19950423	SDSDSDSD ST 0L1055	C	XSD 0C0012	C		
199	ST	Q5140	STRUAN Q5140	C	F	1		A					34		19950323	SDSDSDSD ST 0M2447	C	XSD 0L0113	C		
200	ST	Q5219	STRUAN Q5219	C	S	1		A					40		19950327	AAAAAAA ST 0H8588	C	XAA 0G0157	C		
201	ST	Q5356	STRUAN Q5356	C	F	1		A					38		19950413	AAAAAAA ST 0L1210	C	XAA 0G0157	C		
202	ST	Q5235	STRUAN Q5235	C	S	1		A					25		19950328	HHHHHHHH ST 0D4300	C	XHH 0M0604	C		

Number of records: 202

Datafile Name: MBDB_REGO_4
Indexed : 22/03/01 14:42

MBDB - Normal Registration Entries

22/03/01 15:27

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Record No.	Animal Ident	Sex	I=Information	W=Warnings	F=Fatal (ie. can't be allowed)
178	ST Q05139	S	W	Birth weight 47 Kilograms suspect	
178				Animal added, with warnings.	
179	ST Q05155	F		Animal added	
180	ST Q05213	F	W	Birth weight 49 Kilograms suspect	
180				Animal added, with warnings.	
181	ST Q05224	F		Animal added	
186	ST Q05032	S		Animal added	
187	ST Q05028	F	W	D.O.B. 13/03/95 is inconsistent with mating date 14/06/94	
187				Animal added, with warnings.	
188	ST Q05368	S		Animal added	
189	ST Q05428	S		Animal added	
190	ST Q05011	S	W	D.O.B. 01/03/95 is inconsistent with mating date 14/06/94	
190				Animal added, with warnings.	
191	ST Q05054	F		Animal added	
192	ST Q05385	F		Animal added	
193	ST Q05222	S		Animal added	
194	ST Q05502	F	W	D.O.B. 28/04/95 is inconsistent with mating date 08/07/94	
194				Animal added, with warnings.	
195	ST Q05176	F		Animal added	
196	ST Q05351	F	W	Birth weight 52 Kilograms suspect	
196			W	D.O.B. 10/04/95 is inconsistent with mating date 14/06/94	
196				Animal added, with warnings.	
197	ST Q05431	F		Animal added	
198	ST Q05470	S		Animal added	
199	ST Q05140	F		Animal added	
200	ST Q05219	S		Animal added	
201	ST Q05356	F		Animal added	
202	ST Q05235	S	W	D.O.B. 28/03/95 is inconsistent with mating date 07/07/94	
202				Animal added, with warnings.	
Animals accepted, no warnings			152		
Animals accepted with warnings overridden			48		
Total ACCEPTED			200	Initial Setup 22/03/01 14:42 by JMA_T	
Animals rejected with warnings			0	No. Data Records 202 No. Accepted 0 (not incl. this run)	
Animals rejected with errors			2	Last Update by	
Total REJECTED			2	Please correct the rejection errors and submit those details again	

APPENDIX III

**SAMPLE REPORTS FROM THE TEST LOAD OF STRUAN
PERFORMANCE AND CARCASE DATA***

*** Test Data supplied by Australian Limousin Breeders' Society Ltd**

BFGEN.006 - Establish a Multibreed Database for Beef Cattle

WEIGHTS

Date: 22 MAR 2001

MULTIBREED DATABASE PROJECT

BATCH REPORT FOR BATCH MBDB_WGHT_1

USER JMA_T

Page 2

Rec No	Anim Ident	Owner	L F D	Date	Wght	Grp	D Hip X Hgt	Scr	Serve	A Day	Fat	IMFat	Musc	Accred	TRAITS															
TS	LM	HG	SL	HD	HW	HP	HS	TM	BS						Number	PH	PW	CC	FS	US	TE	EL	ER	ES	LS	SH	NS	PS		
28	ST 1P4084	ST	K	21111995	0426	000		0																						**Perf Added
	W-Perf: Data at 07/11/95 within 40 days of this data																													
29	ST 1P4088	ST	K	26101994	0210	000	Y	0																						**Perf Added
32	ST 1P4088	ST	K	21111995	0000	000	Y	0																						**Perf Added
	F-Perf: Sex of animal is already steer																													
	F-Wght-date: No performance details given, except date																													
33	ST 1P4108	ST	K	26101994	0226	000		0																						***** FAILED ***
35	ST 1P4108	ST	K	07111995	0491	000		0																						**Perf Added
36	ST 1P4108	ST	K	21111995	0487	000		0																						**Perf Added
	W-Perf: Data at 07/11/95 within 40 days of this data																													
	W-Perf: Decrease in weight from 491 kg at 07/11/95																													
37	ST 1P4111	ST	K	26101994	0204	000	Y	0																						**Perf Added
39	ST 1P4111	ST	K	07111995	0484	000	Y	0																						**Perf Added
40	ST 1P4111	ST	K	21111995	0471	000	Y	0																						**Perf Added
	W-Perf: Data at 07/11/95 within 40 days of this data																													
	W-Perf: Decrease in weight from 484 kg at 07/11/95																													
41	ST 1P4147	ST	K	26101994	0225	000		0																						**Perf Added
44	ST 1P4147	ST	K	21111995	0459	000		0																						**Perf Added
	W-Perf: Decrease in weight from 489 kg at 07/11/95																													
	W-Perf: Data at 07/11/95 within 40 days of this data																													
45	ST 1P4223	ST	K	26101994	0173	000		0																						**Perf Added
47	ST 1P4223	ST	K	07111995	0405	000		0																						**Perf Added
1556	ST 0S7221	ST	K	04061998	0392	000	Y	0																						**Perf Added
1557	ST 0Q5356	ST	K	09111995	0223	000		0																						**Perf Added
1558	ST 0Q5356	ST	K	11041996	0321	000		0																						**Perf Added
1559	ST 0Q5235	ST	K	09111995	0251	000	Y	0																						**Perf Added
1560	ST 0Q5235	ST	K	11041996	0336	000	Y	0																						**Perf Added

***** Total -- Input: 1560 Failed: 24 Passed: 1536 Ignored: 0 Already Processed: 0 *****

Error Record Nos: 32 52 64 72 84 92 96 104 112 116 124 128 132 140 148 159 163 167 171 195
: 198 206 210 312

BFGEN.006 - Establish a Multibreed Database for Beef Cattle

CARCASE

MULTIBREED DATABASE PROJECT

Date: 22 MAR 2001

BATCH REPORT FOR BATCH MBDB_CARC_2

USER JMA_T

Page 1

Rec	Anim	Owner	Est Num	Kill Date	Kill Grp	E Work Body	Teeth I Cat	Bruis L R	Hot Wt	Hot Fat	MS c/kg	Quar Site	Marb Score	Meat Col	Fat Col	Meat Text	Rib Fat	EMA	IM Fat	pH	Ten	Yield %	Yield	Descr -USDA-Mk Tr Grd	-USDA-KPH
1	ST 1Q5403	ST		14081996					2120	9		12	0 A 1C	0			5	71						**Carcase Added	
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
2	ST 1Q5336	ST		14081996					2160	5		12	0 A 1B	0			5	67						**Carcase Added	
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
3	ST 1Q5298	ST		14081996					1910	5		12	10 A 1B	0			4	60						**Carcase Added	
4	ST 1Q5149	ST		19081996					2140	4		12	0 A 1B	0			6	62						**Carcase Added	
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
5	ST 1Q5475	ST		14081996					2000	6		12	0 A 1C	0			4	70						**Carcase Added	
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
31	ST 1Q5477	ST		30041997	2				3470	18		12	10 A 1B	1			18	81		52		2526	**Carcase Added		
32	ST 1Q5515	ST		26051997	7				3440	19		12	0 A 1B	0			17	84		54		2415	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
33	ST 1Q5101	ST		28041997	1				3470	22		12	20 A 1B	2			17	77		56		2326	**Carcase Added		
34	ST 1Q5199	ST		30041997	2				3030	16		12	20 A 1B	2				81		55		2114	**Carcase Added		
35	ST 1Q5328	ST		05051997	3				3260	17		12	10 A 1B	1			14	85		54		2281	**Carcase Added		
36	ST 1Q5147	ST		28041997	1				3150	9		12	10 A 1B	1			12	72		54		2194	**Carcase Added		
37	ST 1Q5211	ST		28051997	8				2950	14		12	10 A 1B	1			13	69		54		2004	**Carcase Added		
38	ST 1Q5299	ST		08051997	4				3080	9		12	10 A 1B	1			12	73		0		2115	**Carcase Added		
39	ST 1Q5316	ST		28041997	1				3350	7		12	10 A 1B	0			15	67		55		2274	**Carcase Added		
40	ST 1Q5478	ST		05051997	3				3160	11		12	10 A 1B	1			15	50		54		2168	**Carcase Added		
41	ST 1Q5492	ST		05051997	3				3300	15		12	0 A 1B	0			14	78		56		2298	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
42	ST 1Q5517	ST		26051997	7				3400	8		12	10 A 1B	0			14	90		55		2472	**Carcase Added		
43	ST 1Q5531	ST		26051997	7				3450	16		12	10 A 1B	0			15	83		54		2511	**Carcase Added		
44	ST 1Q5186	ST		08051997	4				3220	16		12	10 A 1B	0			19	89		0		2094	**Carcase Added		
45	ST 1Q5187	ST		05051997	3				3620	15		12	10 A 1B	1			13	86		66		2596	**Carcase Added		
46	ST 1Q5330	ST		28051997	8				3170	18		12	10 A 1B	0			21	78		54		2245	**Carcase Added		
47	ST 1Q5394	ST		05051997	3				3090	18		12	0 A 1B	0			24	85		64		2175	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
48	ST 1Q5530	ST		30041997	2				2780	10		12	10 A 1B	1				77		55		1946	**Carcase Added		
49	ST 1Q5174	ST		05051997	3				3870	16		12	0 A 1B	1			20	89		55		2714	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
50	ST 1Q5227	ST		28041997	1				3820	16		12	0 A 1B	0				78		0		2669	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								
51	ST 1Q5238	ST		26051997	7				3610	15		12	10 A 1B	0			14	83		55		2571	**Carcase Added		
52	ST 1Q5439	ST		30041997	2				3040	6		12	0 A 2	1			7	58		55		2089	**Carcase Added		
	W-Slighter:Chill marbling score should be 1.0 to 9.0 if entered																								

***** Total -- Input: 52 Failed: 0 Passed: 52 Ignored: 0 Already Processed: 0 *****

APPENDIX IV

RECORD SPECIFICATIONS FOR THE INPUT OF ELECTRONIC DATA INTO THE MULTIBREED DATABASE

ANIMAL PEDIGREE DATA

- record layout
- codes lists
- multiple sires record

LAYOUT FOR GENERAL REGISTRATION BATCH INPUT

Field	Start Posn	Field Description	Field Size	Values
<u>Record 'A'</u>				
A	1	Record Code	1	Always "A"
B	2	Society Code	7	MBDB
C	9	HERD	7	herd of ownership
D	16	Calf Tattoo	11	If not present, Society ident (Field AN) must be
E	27	Calf Sex	1	M or F
F	28	Calf Birth Date	8	in the form of yyyyymmdd
G	36	Calf Name - prefix	20	Prefix of herd of ownership
H	56	" " - suffix	20	Calf name without Stud Prefix
I	76	DAM Ident	19	Standard society ident of genetic Dam of calf
J	95	DAM Tattoo	11	optional - to verify dam
K	106	Final SIRE Ident	19	Standard society ident of Sire of calf
L	125	Final SIRE Tattoo	11	optional - to verify sire
M	136	Final Service Code	1	A=AI, P=N=Paddock, H=Hand, B=non-synchronised AI
N	137	Final Mating Date	8	yyyyymmdd (for sire of calf)
O	145	Correct/Remate	1	C=correction, R=remate
P	146	Calf Fate	1	See Society Fate Codes (rego form)
Q	147	No. In Birth	1	1=Single, 2=Twinn
R	148	Register Status	2	usually Y=R=Register, N=No, C=Commercial
S	150	Calving Ease	1	See Society Codes as for rego form
T	151	By ET	1	Y=ET, N=not ET
U	152	Grade Calf-code	2	See Society Codes (as for rego form)
V	154	Horn Status	1	H=Horn, D=Dehorn, S=Scur, P=Poll, blank=unknown
W	155	Mating Grp	1	Dam Joining Group
X	156	Brand Code	1	
Y	157	Certif. Required?	1	Y=blank=yes, N=No
Z	158	Bought in Calf	1	Y=yes, N=blank=No
AA	159	Calving Year	4	(eg. 1994) blank if birthdate supplied
AB	163	Breed	8	blank if parents are on file, otherwise 4 x 2 character breed (eg. AA AA AA AA for Angus)
AC	171	Breeder Herd	7	This herd determines Society ident
AD	178	Colour Type	2	
AE	180	Colour 1	2	Colour
AF	182	Colour 2	2	
AG	184	Colour 3	2	
AH	186	Fullblood	1	"Y", "N"

Field	Start Posn	Field Description	Field Size	Values
<u>Record 'A' continued</u>				
AI	187	Blood Case No	8	right justified, left zero filled
AJ	195	Horned Appendix Register	1	
AK	196	Abnormal	1	
AL	197	Freemartin	1	
AM	198	Appraisal	1	
AN	199	Society Tag No	19	Used if tattoo not present
Record A Total Length =			217	

Field	Start Posn	Field Description	Field Size	Values
<u>Record 'B'</u>				
BA	1	Record Code	1	"B" Always
BB	2	Birth Weight (kg)	4	right justified, left zero filled (eg. 0041)
BC	6	Birth Mgt. Grp.	1	Management Group for birth performance
BD	7	Left Eye Pigment	3	right justified, left zero filled
BE	10	Right Eye Pigment	3	right justified, left zero filled
BF	13	Optional Trait Code #1	3	
BG	16	Trait 1 Value	6	(if numeric, right justified, left zero filled)
BH	22	Optional Trait Code #2	3	
BI	25	Trait 2 Value	6	left zero filled if numeric
BJ	31	RECIP. DAM Ident	19	Society ident for recipient dam
BK	50	Flush date	8	yyyymmdd
BL	58	Implant date	8	yyyymmdd
BM	66	FOSTER DAM Ident	19	Society ident for Foster Dam
BN	85	Sire Permit	1	Y=Yes
BO	86	Dam Permit	1	Y=Yes
BP	87	AI Cert. No.	19	AI Sire Certificate number
BQ	106	ET Cert. No	19	ET Dam Certificate number
Next mating -				
BR	125	First SIRE Ident	19	First joining sire ident(for next year's calf)
BS	144	First Sire Tattoo	11	Optional, to verify first joining sire ident
BT	155	First Service Code	1	as per "field M"
BU	156	First Mating Date	8	format is yyyymmdd
Cow Fate -				
BV	164	Dam fate	1	see Society Fate codes (Rego form)
BW	165	Dam fate date	8	format is yyyymmdd
BX	173	Recip dam breed	8	4 x 2 character breed codes (eg. AABBCDD)
BY	181	Nat. Cert. No.	19	Natural Service Certificate Number
BZ	200	Embryo Ref.	19	Embryo Reference number/ident
CA	219	Optional Trait Code #3	3	
CB	222	Trait 3 Value	6	Left zero filled if numeric
CC	228	Optional Trait Code #4	3	
CD	231	Trait 4 Value	6	Left zero filled if numeric
CE	237	Birth Date Accuracy(weeks)	2	blank or zero indicates that Birth Date is exact eg. a value of 6 indicates Birth date is accurate to only plus-or-minus six weeks
CF	239	Generic Animal Flag	1	values Y or blank

CG 240 Other System Ident 18 Used for an animal's identification that is known to exist in another system. It must consist of 2 character country , 2 character breed, up to 14 character ident. Countries are NZ, AU, US, CA etc. Breeds are standard, ie. BB = Brahman , SG = Santa etc. eg. an animal that is known to be registered with the Australian Santa Assoc. as Herdbook No. 671543 would have "AUSG671543" in this field.

Record B Total Length = 257

Notes: Each animal registration application will consist of two records (an "A" record followed by a "B" record). Both "A" and "B" records must be present for all animals (even if no data is required on the B record).

Many fields are not required for some societies. The requirements of the Society or Association's registration forms should be used as a guide.

All fields are left justified unless specifically stated otherwise.

Optional Trait Codes are:

HG	-	Heart Girth at birth
SL	-	Shoulder Length at birth
HH	-	Hip Height of calf at birth
CW	-	Cow Weight at calf birth
HD	-	Hock to Dew Claw at birth
BS	-	Birth Size (L/M/S)

CODES LIST FOR MULTIBREED DATABASE PROJECT

1. Registration Status

- R - registered
- C - commercial (usual value)
- Y - ancestral
- X - recipient dam

2. Animal Fate Codes

- 1 - Died, non-accident
- 2 - Died/Sold, accident
- 3 - Culled (slaughter)
- 4 - Culled (fertility)
- 5 - Sold for breeding
- 6 - Culled other

3. Sex Codes

- M - Male
- F - Female
- S - Steer

4. Calving Ease Codes

- Blank - not recorded
- 1 - no difficulty
- 2 - easy pull
- 3 - hard pull
- 4 - surgical
- 5 - posterior presentation

5. Breed Codes

See Table 1

Table 1: BREEDPLAN – STANDARD BREED CODES

Code	Breed Name	Code	Breed Name
CD	A.C.D.C.	JJ	Jersey
AF	Africander	LB	Lean Bos (Chianina/Sahiwal)
AN	Angler	LL	Limousin
AA	Angus	LR	Lincoln Red
AL	Australian Lowline (Angus)	LH	Longhorn (Texas)
AU	Australis (SD/AA composite)	LU	Luining
FS	Australian Friesian Sahiwal	MU	Maine Anjou
IS	Australian Illawarra Shorthorn	MD	Mandalong Special
MZ	Australian Milking Zebu	MA	Marchigiana
UU	Australian Red	MS	Milking Shorthorn
AY	Ayrshire	MI	Meuse-Rhine-Yssel
* BC	Bali Cattle (Buntang)	MG	Murray Grey
BZ	Barzona (Composite)	NL	Nelore (& Poll)
BD	Bazadais	* NO	Normande
(BS)	Beef Shorthorn (see Shorthorn)	* PT	Parthenais
BO	Beefalo	PR	Pie Rouge
BK	Beefmaker (composite)	PM	Piedmontese
BM	Beefmaster (composite)	PZ	Pinzgauer
BL	Belgian Blue	(PC)	Poll Charolais (see Charolais)
BR	Belmont Red	(PD)	Poll Devon (see Devon)
GA	Belted Galloway (& Galloway)	PH	Poll Hereford
BA	Blonde d'Aquitaine	(PS)	Poll Shorthorn (see Shorthorn)
BJ	Bonsmara	SI	Poll Simmental
BN	Boran	RA	Red Angus
BF	Braford	RP	Red Poll
BB	Brahman	RS	Red Sindhi
BH	Brahmousin	RF	Red and White Holstein
BE	Braler	RV	River Buffalo (Murray)
BG	Brangus	RO	Romagnola
BV	Braunvieh	RB	Rotbut
BW	British White	SW	Sahiwal
SB	Brown Swiss	SN	Sahiwal-Shorthorn
BU	Buffalo	SL	Salers
* CN	Canadienne	SG	Santa Gertrudis
CB	Charbray	SE	Senepol
CC	Charolais (& Poll Charolais)	SV	Shaver Beefblend (Composite)
CA	Chiangus (Chianina / Angus)	SS	Shorthorn (& Beef & Poll Shorthorn)
CI	Chianina	SM	Simbrah (Simmental / Brahman)
CF	Chiford (Chianina / Hereford)	SH	Simford (Simmental / Hereford)
DS	Dairy Shorthorn	SC	Simindicus
DR	Danish Red	SI	Simmental (& Fleckviech & Black)
DD	Devon	SD	South Devon
DX	Dexter	SP	Swamp Buffalo
DM	Droughtmaster	SR	Swedish Red
DU	Durham (see Shorthorn)	SU	Sussex
FF	Friesian (Holstein)	TA	Tarantaise
GA	Galloway (& Belted Galloway)	* TC	Thai Native – Central (Ko Larn) (red)
* GC	Gasconne	* TC	Thai Native – Noth East (E-sarn) (red)
GV	Gelbvieh	* TN	Thai – North (Kao Lampon - white)
GM	Greyman (Murray Grey / Brahman)	* TS	Thai Native – Southern Fighting (red)
GG	Guernsey	TI	Tuli
HV	Hayes Converter (composite)	OO	Unknown
HH	Hereford	WY	Wagyu
HI	Highland	WA	Watuzi
FF	Holstein Friesian	WB	Welsh Black
XH	Hotlander (SI/BB/SE/RA composite)	ZE	Zebu
IS	Illawarra Shorthorn (AIS)	(ZZ)	Other – no longer valid as a code

() Letter codes in brackets are no longer valid

ASCII File Layout for Multiple Sires

<u>Field</u>	<u>Start</u>	<u>Length</u>	
Record-Type	1	1	Value "S"
Herd	2	7	
Multiple Sire-Id	9	19	
Component Sire-Id	28	19	Must already exist on database as a 'real' animal
All the remaining fields are optional:			
Component Sire-Name	47	60	Does not update anything, only used to help checking of errors/warnings
Multiple Sire Name	107	60	

The multiple-Sire can be created by this record, or you could use the regular 'batch regos' layout to create the multiple sire. Using this latter method would require you to specify a value of "Y" in the generic-Animal-Flag field for the Multiple-Sire, and to nominate breed makeup of the multi sire. Of course, the component sires must already exist on file when we process the 'S' record above.

APPENDIX V

RECORD SPECIFICATIONS FOR THE INPUT OF ELECTRONIC DATA INTO THE MULTIBREED DATABASE

PERFORMANCE DATA

- Abattoir carcass
- Combined weights, Scanning and Traits
- Mating
- Pregnancy Test
- Net Feed Intake

BREEDPLAN DATA COLLECTION FORMATS

Introduction

These formats are designed for electronic transfer of data from users PCs to the central BREEDPLAN database system.

Note that many data items are specific to the requirements of the database and you may need to consult the ABRI for valid data items and ranges for the system.

Each data format may be submitted electronically as either:

- fixed length fields as per the record format, OR
- comma delimited packed fields

with each record terminated by <cr><lf>. All data must be ASCII characters.

Abattoir Carcase Data

Electronic Input File Layout

This format is for electronic input of abattoir carcase data.

Description	Type	Size	Start Posn	Range or Format	Missing Value	ABRI Item
Record Type	alpha	1	1	always D	**	rec-type
Herd (of measure)	alpha	7	2		**	herd
Animal Ident (Society)	alpha	19	9		**	ident
Abattoir Establishment Number	alpha	6	28	1-9999	Blank	aqis-num
Slaughter Date	date	8	34	ddmmccyy	Blank=0	slghter-date
Kill Group	alpha	3	42	0-9 A-Z	Blank	kill-grp
Effective Electrical Stimulation	alpha	1	45	N,L,H	Blank	carc-ees
Works Body No (abattoir)	alpha	4	46	1-9999	Blank	works-body
Dentition - permanent incisors	alpha	1	50	0-8	Blank	incisors
Dentition Category	alpha	3	51	A-Z	Blank	dent-cat
Bruising - Left side	alpha	1	54	1-9	Blank	bruise-left
Bruising - Right side	alpha	1	55	1-9	Blank	bruise-right
Hot Std Carcase Wt kgs (tenths)	num	5	56	500-5000	blank=0	hot-std-wt
Hot P8 Fat (mm)	alpha	3	61	0-55	blank	hot-p8-fat
Hot P8 site damage flag	alpha	1	64	A-Z	blank	hot-p8-flag
Butt Profile / Muscle Score	alpha	2	65	A+ to E-	blank	butt-shape
Cents per Kilo (Hot Wt)	num	4	67	10-800	blank=0	cents-kilo
Chiller Quarter Site	alpha	2	71	6 10 12	blank	quarter-site
Chiller Marble Score (tenths)	alpha	3	73	0-120	blank	chill-marble
Chiller Marble Score Flag	alpha	1	76	A-Z	blank	chill-marble-flag
Chiller Meat Colour	alpha	2	77	1A 1B 1C 2-9	blank	chill-meat-col
Chiller Fat Colour	alpha	2	79	0-12	blank	chill-fat-col
Chiller Meat Texture	alpha	1	81	1-3	blank	chill-texture
Chiller Rib Fat Depth (mm)	alpha	3	82	0-50	blank	chill-rib-fat
Chiller Rib Fat damage flag	alpha	1	85	A-Z	blank	chill-rib-flag
Chiller EMA (sq cms)	num	3	86	10-120	blank=0	chill-ema
Chill Intramuscular Fat % (tenths)	num	3	89	1-300	blank=0	chill-im-fat
Chill I/M Fat Description code	alpha	1	92	A-Z	blank	equip-fat
Chiller pH (tenths)	num	2	93	45-80	blank=0	chill-ph
Tenderness (shear force kg) (tenths)	num	3	95	1-200	blank=0	shear-force
Retail Yield % (tenths)	num	3	98	400-800	blank=0	retail-yield
Yield % Description code	alpha	1	101	A-Z	blank	equip-yield
Yield kg (tenths) (eg bone out)	num	5	102	500-5000	blank=0	carc-yield-kg
Yield kg Description Flag	alpha	1	107	A,E	blank	carc-yield-flag
Market Description Flag	alpha	1	108	D,J,K	blank	market-desc
Trim Description Flag	alpha	1	109	0,2,6,9	blank	trim-desc
Chiller USDA Grade	alpha	3	110		blank	chill-grade
Chiller USDA KPH % (tenths)	num	3	113	5-50	blank=0	chill-kph
Total Record Length			115			

TABLE HEADINGS

Missing Value	- This value will be stored on file if no value input. - Blank=0 means that either blank or zero can be input and will be stored as zero. - Blank indicates that only a blank is accepted as the missing value (ie blank not = zero) - ** means that this is a mandatory field
Description	- (tenths) indicates the item will be stored with an implied decimal point (ie 1.9 will be input, stored and output as 19)
Type	- alpha means alphanumeric with a range of 0-9, A-Z and space unless specified otherwise

DATA ITEMS:

Record Type	always D (ABRI use)
Herd (of measure)	Society Herd that performance records (owns) the animal at slaughter
Animal Ident (Society)	Society ident of the animal (<u>must</u> be in the correct format for the Society)
Abattoir Establishment Number	see AusMeat Accredited Establishment List. Use 4 digit number. The trailing alpha character is irrelevant and should be omitted.
Slaughter Date	format of ddmccyy and used as part of the analysis group definition
Kill Group	user defined management group (part of the analysis group definition)
Effective Electrical Stimulation	N=none H=high L=low blank=unknown
Works Body No (abattoir)	Number assigned to the body (carcase) at the abattoir
Dentition - permanent incisors	Number of permanent incisors (AusMeat standard)
Dentition Category	standard AusMeat values of V,A,B,Y,YS,YG,YGS,YP,YPS,PR,PRS S,SS,C
Bruising - Left / Right	Standard AusMeat Beef Bruise reporting (1-9)
Hot Standard Carcase Wt	AusMeat standard measured in tenths of kilograms for <u>whole</u> body
Hot P8 Fat	AusMeat standard measurement
Hot P8 site damage flag	non-blank value indicates damage to carcase at measure (P8) site
Butt Profile / Muscle Score	AusMeat standard scores (A+ to E-)
Cents per kilo (Hot Wt)	
Chiller Quarter Site	6=sixth rib 10=tenth rib 12=12 th rib
Chiller Marble score	Normally only input if intramuscular fat % value not available Score to tenths as per MSA standard (at quarter site). Score to tenths as per USDA standard (at quarter site). Single digit (new AusMeat 0-9 and old AusMeat 1-9) scores may <u>not</u> be analysed. - input these as multiples of ten eg 2 is 20

<i>Chiller Marble Score Flag</i>	<i>Indicates method used to score marbling V=VLA A=AusMeat(0-9) M=MSA U=USDA Z=NZ O=old AusMeat(1-9)</i>
<i>Chiller Meat Colour</i>	<i>Standard AusMeat score (at quarter site)</i>
<i>Chiller Fat Colour</i>	<i>Standard AusMeat score (at quarter site)</i>
<i>Chiller Meat Texture</i>	<i>Standard AusMeat score (at quarter site)</i>
<i>Chiller rib fat depth</i>	<i>Rib fat depth (at quarter site)</i>
<i>Chiller rib fat damage flag</i>	<i>non-blank value indicates damage to carcass at measure site</i>
<i>Chiller EMA</i>	<i>Eye muscle area (at quarter site)</i>
<i>Chill Intramuscular Fat %</i>	<i>Intramuscular fat % (as per I/M Fat Description Code)</i>
<i>Chill I/M Fat Description code</i>	<i>to describe how the data in Chill Intramuscular Fat % was derived V=VLA C=CRC N=NIR M=MSA U=USDA Z=NZ E=Ether- Extract</i>
<i>Chiller pH</i>	<i>Standard AusMeat pH test (at quarter site)</i>
<i>Tenderness</i>	<i>Shear force test (should also include pH and electrical stimulation)</i>
<i>Retail Yield %</i>	<i>Percent yield (as per Yield % Description Code)</i>
<i>Retail Yield % Description code</i>	<i>to describe how the data in Retail Yield % was derived V=VLA C=CRC N=NIR M=MSA U=USDA Z=NZ</i>
<i>Yield kg</i>	<i>Yield from the carcass (as per the Yield kg description flag)</i>
<i>Yield kg Description Flag</i>	<i>flag to indicate method used to get Yield kg value A=actual bone out E=estimate from partial carcass</i>
<i>Market Description flags</i>	<i>D=Domestic, K=Korean, J=Japanese</i>
<i>Trim Description flags</i>	<i>Fat trimmed to 0=(0-5 mm), 2=(2-5 mm), 6=(6-10 mm), 9=(11-25 mm)</i>
<i>Chiller USDA Grade</i>	<i>USDA Grade value</i>
<i>Chiller USDA KPH %</i>	<i>Kidney, Pelvic and Heart Fat percentage (USDA)</i>

All Weights are in kilograms (kg) only.

This format will replace the existing Carcass input file specification (rec-type C).

The data may be submitted electronically as either:

- fixed length fields as per the record format, OR
- comma delimited packed fields with each record terminated with <cr><lf>

Live Animal Weights, Scanning and Traits

Electronic Input File Layout for ABRI

A new data record is required for each Animal-Ident/Weight-Date combination. Unless specifically stated otherwise in the format, each performance measurement is considered to be taken on the weight-date.

- Notes:
- an analysis indicator (of E) shows that this is a feedlot entry weight.
 - an analysis indicator (of S) shows that this is a pre-slaughter weight.

 - Days on Feed will be a number between 30 and 300 days [only input if analysis indicator is S]
 - Blank will indicate that the animal had an unknown feeding background
OR the animal has a feedlot entry weight on file already.
 - P = Paddock = Zero will indicate that the animal was "off grass"
 - F = off Feed will indicate that the animal is from a feedlot but with an unknown number of days on feed or already has a feedlot entry weight recorded.

Live Animal – combined Weights, Scanning and Traits:

Description	Type	Size	Start	Comment
Record Type	alpha	1	1	Always "K"
Herd at Weighing	alpha	7	2	Society ident of herd
Animal Ident	alpha	19	9	Society ident of animal
Weight Type	alpha	1	28	K=Kilos P=pounds
Further Test	alpha	1	29	Y=yes=blank N=No
Disposal Code	alpha	1	30	Society specific disposal/fate code
Weight Date	date	8	31	Ddmmccyy
Weight	num	4	39	zero fill (eg 0247)
Management Group	alpha	3	43	A-Z 1-9 Applies to all performance measures on this record
Desexed	alpha	1	45	Y=yes, blank=no (prior to this measure/date)
Hip Height (mm)	num	4	47	
Scrotal Size (mm)	num	3	51	circumference of scrotum
Serving Capacity – Time	num	2	54	10 or 20 minute test
Serving Capacity – Serves	num	2	56	number of serves in nominated time
Analysis Indicator	alpha	1	58	E=feedlot entry weight S=pre-slaughter wt M=Mature Wt (must have trait WD also) J=Joining wt C=Calving Wt Y=early Yearling Wt (calf weaned early & age for this wt < 300)
Days on Feed	alpha	3	59	30-300 days on feed (analysis-indicator usually = S) blank=not recorded zero=P=grass fed F=off feed (unknown days OR feedlot-entry date on file)
Scan P8 Rump Fat (mm)	num	2	62	
Scan Rib Fat (mm)	num	2	64	
Scan EMA (sq cm)	num	3	66	
Scan Average Intramuscular Fat % (tenths)	num	3	69	Average of intramuscular fat scans. Input with one implied decimal (1.9% input as 19)
Number of I/M Fat scans in average	num	1	72	number of scans averaged in I/M Fat % value (blank=unknown). Must be input if IMF% input.
Live Muscle Score	alpha	4	73	1-6
Scanner Accreditation Number	num	6	77	Scanner accreditation numbers are person and machine specific. Must be input if scan data included.
Desexed Date	date	8	83	Ddmmccyy
Various Trait Headings	alpha	24	91	Up to 12 sets of 2 char heading codes (see Traits Table) Blank indicates no trait input
Various Trait Values	alpha	72	115	Up to 12 sets of 6 char trait values (same order as trait headings)
Total Record Length			186	

Traits Table (combined Weights, Scanning and Traits):

Trait Description	Code	Units	Range
Heart Girth	HG	cm	40-220
Hock to Dew Claw Length	HD	cm	15-60
Hip Width	HW	cm	15-100
Hip to Pin Length	HP	cm	15-60
Hip to Shoulder Length	HS	cm	45-220
Shoulder to Pin Length	SL	cm	45-220
Flight Speed	FL	secs	0.1-60.0
Foot Score	FS	score	1-9
Leg Score	LS	score	1-9
Pelvic Height	PH	cm	20-200
Pelvic Width	PW	cm	60-200
Cow Condition	CC	score	1-6
Udder Score	US	score	1-9
Teat Score	TE	score	1-9
Left Eye Pigment	EL	%	0-100
Right Eye Pigment	ER	%	0-100
Eye Setting	ES	score	1-9
Sheath Score	SH	score	1-9
Navel Score	NS	score	1-9
Prepuce Score	PS	score	1-9
Tick Score	TS	score	1-5
Birth Weight Size	BS	score	V,S,M,L,H
Temperament Score	TM	score	1-5
Wet Dry Flag (Mature wts)	WD	score	W,D
Research Grouping	VP	code	1 char (A-Z, 0-9)

Notes:

Mature Cow Weights must have an Analysis Indicator of "M" and trait code of WD (Wet/Dry) set to a value of either W (reared calf) or D (didn't rear calf).

Mating Data - Electronic Input File Layout for ABRI

Description	Type	Size	Start	Comment
Record Type	alpha	1	1	Always "N"
Herd	alpha	7	2	Observation Herd
Animal Ident(Society)	alpha	19	9	
Mating Date	date	8	28	Ddmmccyy
Service Code	alpha	1	36	A=Synchronized AI , B=non-synchronized AI, H=hand , NorP=Natural(Paddock)
Service Sire's Ident	alpha	19	37	
Out Date	date	8	56	Ddmmccyy
Mating Result	alpha	1	64	(optional) S=success, F=failed , A=aborted

Pregnancy Test Data - Electronic Input File Layout for ABRI

Description	Type	Size	Start	Comment
Record Type	alpha	1	1	Always "P"
Herd	alpha	7	2	Observation Herd
Animal Ident(Society)	alpha	19	9	
PregTest Date	date	8	28	Ddmmccyy
PregTest Result	alpha	1	36	P=Pregnant, N=Not Pregnant or Trimester Value (1,2 or3)

Net Feed Intake Data

All data needs to be sent to Dr Jason Archer at Trangie Research Station for pre-evaluation.

Trangie will then forward the data to ABRI for updating onto the database.

Contact details for Trangie are:

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