

BREEDPLAN DATA COLLECTION FORMATS

VERSION 4.1

last update date: 23 August 2010

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 Society specific and you may need to consult the Society for valid data items and ranges for their 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.

Record Types are used to define data formats:

- A (reserved for regos)
- B (reserved for regos)
- C (reserved for old carcass records)
- D Abattoir Carcass data
- F Feed efficiency data
- G (old preg test)
- H (old wts and scan)
- J (old joins)
- K weights, scans and traits
- M mature weights
- N joinings (old – not used)
- P preg test (old – not used)
- S multi sires
- T (old traits)
- U DTOC record from PC Herd Management software
- V DTOC record from Excel

Only record types of D, K and U are defined in this document.

1. Abattoir Carcase Data

Electronic Input File Layout

This format is for electronic input of abattoir carcase data.

Format last modified: **October 1998**

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:

<i>Record Type</i>	<i>always D (ABRI use)</i>
<i>Herd (of measure)</i>	<i>Society Herd that performance records (owns) the animal at slaughter</i>
<i>Animal Ident (Society)</i>	<i>Society ident of the animal (<u>must</u> be in the correct format for the Society)</i>
<i>Abattoir Establishmnet Number</i>	<i>see AusMeat Accredited Establishment List. Use 4 digit number. The trailing alpha character is irrelevant and should be ommitted.</i>
<i>Slaughter Date</i>	<i>format of ddmccyy and used as part of the anlaysis group definition</i>
<i>Kill Group</i>	<i>user defined management group (part of the anlaysis group definition)</i>
<i>Effective Electrical Stimulation</i>	<i>N=none H=high L=low blank=unknown</i>
<i>Works Body No (abattoir)</i>	<i>Number assigned to the body (carcase) at the abattoir</i>
<i>Dentition - permanent incisors</i>	<i>Number of permanent incisors (AusMeat standard)</i>
<i>Dentition Category</i>	<i>standard AusMeat values of V,A,B,Y,YS,YG,YGS,YP,YPS,PR,PRS S,SS,C</i>
<i>Bruising - Left / Right</i>	<i>Standard AusMeat Beef Bruise reporting (1-9)</i>
<i>Hot Standard Carcase Wt</i>	<i>AusMeat standard measured in tenths of kilograms for <u>whole</u> body</i>
<i>Hot P8 Fat</i>	<i>AusMeat standard measurement</i>
<i>Hot P8 site damage flag</i>	<i>non-blank value indicates damage to carcase at measure (P8) site</i>
<i>Butt Profile / Muscle Score</i>	<i>AusMeat standard scores (A+ to E-)</i>
<i>Cents per kilo (Hot Wt)</i>	
<i>Chiller Quarter Site</i>	<i>6=sixth rib 10=tenth rib 12=12th rib</i>
<i>Chiller Marble score</i>	<i>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 AusMeat0 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>
<i>Chiller Marble Score Flag</i>	<i>Indicates method used to score marbling V=VIA 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=VIA 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=VIA 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>

2. Live Animal Weights, Scanning and Traits

Electronic Input File Layout for ABRI

Modifications: October 1998:

This combines the old weights/scan, mature-wts and traits input layouts into a single electronic format.

Two extra fields have been added to the record to allow for live animal scanning for intramuscular fat percent.

The dates have been extended to include the century component.

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: - Allow an analysis indicator (of E) to show that this is a feedlot entry weight.

- Allow an analysis indicator (of S) to show 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.

Modifications: March 2000

Include Trait codes (see Traits Table) of:

WD Wet Dry flag for Mature weights

VP Extra Management code for research purposes only

September 2002

Wet/Dry flags no longer required for Mature Weights

Pelvic Height & Width are in millimetres

Temperament scores now include half scores (viz, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5)

July 2003

Include Trait codes (see Trait Table) of :

SK Skin thickness

FK Recording phase (Namibian societies)

July 2010

Include Analysis-indicator of "W" to indicate weight-date is date that calf is removed from cow (defined as the date of weaning the calf).

Remove Analysis-indicator of "Y" (not used)

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	46	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 W>Weaning Date J=Joining wt C=Calving Wt
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	A+ to E-
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
Recording Phase	FK		A1,B1,B2,C1,C2,D1,D2,D3
Flight Speed	FL	secs	0.20-8.00
Foot Score	FS	score	1-9
Leg Score	LS	score	1-9
Pelvic Height	PH	mm	50-300
Pelvic Width	PW	mm	50-300
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
Skin Thickness	SK	mm	1-30
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 (half scores valid)
Research Grouping	VP	code	1 char (A-Z, 0-9)

Notes:

Mature Cow Weights must have an Analysis Indicator of “M”

Weaning Dates must have an Analysis Indicator of “W”. Date of weaning is the date that the calf is physically separated from the cow as part of routine herd management.