Electronic Data Handling

Version 1.8 – May 2012

The newest version of this document is always available at http://www.logix.org.za/docs/EDH.pdf

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Basic Principles

It is the aim of Logix to provide a simple and efficient means for handling data electronically. Although some decisions were made to simplify the way data is handled electronically there are a number of legacy applications that still need to be supported and thus some exceptions to the principles outlined below still exist.

Data sent from Logix

For simplicity it was decided to provide all data in CSV (Comma separated values) format with the following principles:

Fields are separated by commas (,)

Fields are optionally enclosed in double quotation marks (") this allows the use of a comma in a text field e.g. "Field1","Field 2, still 2","Field 3". When a field contains a quotation mark it is escaped by using two quotation marks. E.g. the field (My "name" is) will be shown as ...","My ""name"" is","....

Each record is on a new line. Lines are separated in either DOS (CR/LF) or Unix (LF) format. Thus the ASCII character 10 as well as 13 must be seen as a record delimiter and consecutive record delimiters must be ignored.

The first record contains field names for information purposes only; do not use the names to identify the field as the spelling/description might change. Use the position of the field to identify it.

The layout may change without notice by additional fields being appended to the end of each record. Thus ignore information past the last field being used.

Dates are in the format DD/MM/YYYY. (Although some older files do contain dates in YYYY/MM/DD format)

CSV files have the benefit that it can easily be viewed in Microsoft® Excel. Please note that Excel does not display leading zeroes in fields that it thinks is numeric e.g. the Animal Number field. **Be very careful not to edit and/or save the file in Excel as it will save the field without zeroes.**

Data sent to Logix

The official format for sending data to Logix is a fixed width text file as this is also the format used internally. Some documents can also be sent in CSV format (Birth notifications and phase A/B weights) as programs have been adapted to cater for it.

Data can be sent by email to **edata@studbook.co.za**. Data can also be mailed to Studbook (P.O. Box 270, Bloemfontein, 9300) marked with "Electronic Data" on CD. Logix can unfortunately **not** take responsibility for CDs thus mailed to Studbook and will not be mailed back.

Note that dates are in DDMMYYYY format (Without the slashes {/} used in dates sent from Logix)

Files sent in fixed width format should have a .DAT extension and files in CSV format should have a .CSV extension.

Files can also be zipped (Using the ZIP file format) before sending which is preferable.

Formats mostly begin with the following fields:

Batch – this is used to identify a batch (group of transactions). This can be 15 characters long and It is recommended that the batch consists of an indicator of the software used (e.g. LX is used for logix) the participant number in full (e.g. 00412352BON) and a sequence number (e.g. count from 000 to 999 and start at 000 again).

Employee – this is used as a reference and can be anything up to 10 characters long. When feedback is given (esp. births that were accepted) this field will also be included. For paper documents typed by SA Stud Book the typist's name is stored and in Logix the user submitting the data is stored. A recommendation is to use an internal reference (Primary Key) to identify the record when feedback is received. E.g. (When an animal is created on farm software the animal might get an internal ID of 1. When Logix processes this birth notification and 1 is in the employee field it will

allocate a computer number e.g. 0061121212 and send an email with the information and also include the reference of 1)

Document Code – This is used to identify the type of document in batch processing (E.g. ANIM = Birth Notification and WLAB = Phase A/B Weights)

Action Type – This theoretically could be Create, Update or Delete. Currently only Create is supported in batch.

Reports sent by Logix

Reports sent out by Logix are all in PDF (Portable Document Format) and can be read by, amongst others, Adobe® Reader® which is freely available on the internet at http://www.adobe.com and are tested on Version 7 but should be viewable from version 4 onwards.

Document formats of data sent from Logix

Data sent automatically from Logix

Some data documents are sent automatically to a breeder who is marked as an "electronic" herd and has a valid email address. This can be confirmed by checking that "Electronic Data Capture" is "yes" on the Participant Details screen on Logix. A breeder can opt out of these emails, whilst remaining marked as an electronic herd, by replying to an email and requesting same.

New animals accepted on the system

A list of animals accepted on the system is sent automatically at 16:00.

The fields are:

- BATCH
- REFERENCE
- COMPUTER NUMBER
- ANIMAL ID
- SECTION

For a sample file see **http://www.logix.org.za/docs/Births.csv**.

Results of beef tests

Results of beef tests are sent automatically at 16:00 following the completion of the calculation.

The fields are:

- ANIMAL_NUMBER
- BEEF_TEST_CODE
- DERIVATION_DTM
- ADAPTATION_START_DTM
- GROUP_CODE
- TEST_CODE
- CONTS
- TEST_START_DTM
- TEST_FINISH_DTM
- WEIGHING_DTM
- AGE_AT_TEST
- WEIGHT_UNADJ
- WEIGHT_BEGIN_ADAPTATION
- WEIGHT_BEGIN_TEST
- WEIGHT_END_TEST
- WEIGHT
- ADA
- ADA_IDX
- ADA_TYR
- ADG
- ADG_IDX
- ADG_TYR
- FCR
- FCR_IDX
- FCR_TYR
- KR
- KR_INDEX_GRP
- KR_TYR
- SC_UNADJ
- SC
- BODY_LENGTH_UNADJ
- BODY_LENGTH_ADJ
- SHOULDER_HEIGHT_UNADJ
- SHOULDER_HEIGHT_ADJ
- HLR
- SKIN_THICKNESS
- COW_EFFICIENCY
- COW_EFFICIENCY_INDEX
- ANIMAL_ID
- RTU_DTM
- RTU_RUMP_FAT
- RTU_FAT_DEPTH

RTU_MUSCLE_AREA	MEAT_PERC_INDEX
MARBLING	MUSCLE_PERC
MARBLING_INDEX	MUSCLE_PERC_INDEX
MEAT_PERC	KG_MEAT

The beef test results are supplied in the same format for all phases. However some of the fields will be empty when the field does not apply to that test.

For a sample of a phase B test see **http://www.logix.org.za/docs/BeefTestB.csv**, and for a sample of a phase D test see **http://www.logix.org.za/docs/BeefTestD.csv**.

Results of lactation tests

Results of lactation tests are sent automatically at 16:00 following the completion of the calculation.

Animal Number	Fat Yield (305 days)
Parity	Protein Yield
Calving Date	Protein Yield (305 days)
End of Lactation	Lactose Yield
Termination Reason	Lactose Yield (305 days)
Milk Index	Fat%
Fat Index	Protein%
Protein Index	Lactose%
Number of measurements	Lactation Index
Lactation Length	SCC 24H
Milk Yield	SCC Index 24H
Milk Yield (305 days)	Urea Concentration 24H
Fat Yield	Lactation Date

Only information about completed lactations in the test are sent.

SCC 24H, SCC Index 24H and Urea concentration 24H are not considered important if using Taurus 4000 reports.

For a sample see **http://www.logix.org.za/docs/LactTest.csv**

Inspections

Inspections will be sent daily to clients per participant code
The fields are:

FIELDS	FIELD DESCRIPTION
PAR_CODE	PARTICIPANT CODE
COMP_NR	ANIMAL COMPUTER NUMBER
NID	ANIMAL NEW ID
INSP DATE	INSPECTION DATE
PASS_OR_CULL	PASSED OR CULLED
POINT	POINT
REASON_1	DIFFERENT REASONS FOR CULLED
REASON_2	DIFFERENT REASONS FOR CULLED
REASON_3	DIFFERENT REASONS FOR CULLED
REASON_4	DIFFERENT REASONS FOR CULLED
REASON_5	DIFFERENT REASONS FOR CULLED

For a sample see **http://www.logix.org.za/docs/inspections.csv**

Cancellations

Cancellations will be sent daily to clients per participant code
The fields are:

FIELDS	FIELD DESCRIPTION
PAR_CODE	PARTICIPANT CODE
COMP_NR	ANIMAL COMPUTER NUMBER
NID	ANIMAL NEW ID
CANCEL_DATE	CANCEL DATE
PASS_OR_CULL	PASSED OR CULLED
REASON_1	REASONS FOR CULLED

For a sample see **http://www.logix.org.za/docs/cancellations.csv**

Tranfers

Transfers will be sent daily to clients per participant code
The fields are:

FIELDS	FIELD DESCRIPTION
CUR_OWNER	PARTICIPANT CODE CURRENT OWNER
NEW_OWNER	PARTICIPANT CODE NEW OWNER
COMP_NR	ANIMAL COMPUTER NUMBER
NID	ANIMAL NEW ID
TRANSFER_DATE	DATE ON WHICH ANIMAL WAS TRANSFERRED

For a sample see **http://www.logix.org.za/docs/transfers.csv**

Data sent on request from Logix

Data extraction for beef software

Data extraction is not sent automatically, but upon request and there is a fee involved based on the number of records extracted. All animals in a herd (optionally with 1, 3 or 5 generations of ancestors) or specific animals can be requested with 1, 3 or 5 generations of ancestors) or specific animals can be requested.

Animal information

GEN
ANI_ID
RASKODE
GESLAG
HDM
YEAR VALUE
SEQUENCE VALUE
ANIMAL ID NUMBER
ANIMAL COMPUTER NUMBER
ANIMAL PREFIX
ANIMAL NAME
SIRE ID NUMBER
SIRE COMPUTER NUMBER
DAM ID NUMBER
DAM COMPUTER NUMBER
SECTION
SUB SECTION
BREEDER PARTICIPANT NUMBER
OWNER PARTICIPANT NUMBER
IN HERD START DATE
IN HERD END DATE
BIRTH DATE
BIRTH WEIGHT
BIRTH WEIGHT RELIABLE
BIRTH WEIGH DATE
WEAN WEIGHT
WEAN WEIGHT RELIABLE
WEAN DATE
APPROVED / REJECTED
INSPECTION DATE
DATE OF DEATH
CANCELLATION DATE
REASON FOR CANCELLATION
SERVICE CODE
BIRTH STATUS
SEX OF TWIN
DNA or LIDCATor BLOOD TYPE
CALVING STATUS
EASE OF CALVING
AFTER BIRTH REMARK
NOT FOR REGISTRATION
MAIN ID METHOD
COLOUR
DAM WEIGHT AT BIRTH
DAM WEIGHT AT WEAN
DAM EFFICIENCY INDEX
BIRTH ABNORMALITIES 1
BIRTH ABNORMALITIES 2
BIRTH ABNORMALITIES 3
HORN/POLL STATUS
REGISTRATION STATUS
na
COUNTRY CODE
A1 BEEF RECORDING GROUP
AI WEIGH DATE
A1 WEIGHT
A1 CONTEMPORARIES
A1 RANK
A1 AGE
A1 WEIGHT CORRECTED
A1 ADA
A1 ADA INDEX
A2 BEEF RECORDING GROUP
A2 WEIGH DATE
A2 WEIGHT
A2 CONTEMPORARIES

A2 RANK
A2 AGE
A2 WEIGHT CORRECTED
A2 ADA
A2 ADA INDEX
B1 BEEF RECORDING GROUP
B1 WEIGH DATE
B1 WEIGHT
B1 CONTEMPORARIES
B1 RANK
B1 AGE
B1 WEIGHT CORRECTED
B1 ADA
B1 ADA INDEX
B2 BEEF RECORDING GROUP
B2 WEIGH DATE
B2 WEIGHT
B2 CONTEMPORARIES
B2 RANK
B2 AGE
B2 WEIGHT CORRECTED
B2 ADA
B2 ADA INDEX
C/D ADAPTATION DATE
C/D ADAPTATION WEIGHT
C/D START DATE
C/D START WEIGHT
C/D END DATE
C/D END WEIGHT
C/D DAYS IN TEST
C/D CONTEMPORARIES
C/D RANK
C/D ADG
C/D ADG INDEX
C/D ADA
C/D ADA INDEX
C/D FEED CONVERTION RATIO (FCR)
C/D FCR INDEX
C/D KLEIBER RATIO
C/D KLEIBER RATIO INDEX
C/D SHOULDER HEIGHT
C/D ADJUSTED SHOULDER HEIGTH
C/D BODY LENGTH
C/D ADJUSTED BODY LENGTH
C/D SKIN THICKNESS
C/D ADJUSTED SKIN THICKNESS
C/D SCROTUM CIRCUMFERENCE (SCR)
C/D ADJUSTED SCR
INBREEDING COEEFICIENT
BLUP AB DATE
BLUP CD DATE
EBV BIRTH WEIGHT DIRECT
BIRTH WEIGHT DIRECT ACCURACY
EBV BIRTH WEIGHT MATERNAL
BIRTH WEIGHT MATERNAL ACCURACY
EBV EASE OF CALVING
EASE OF CALVING ACCURACY
EBV WEAN DIRECT
WEAN DIRECT ACCURACY
EBV WEAN MATERNAL
WEAN MATERNAL ACCURACY
EBV WEAN COMBINED MATERNAL
WCM ACCURACY
EBV 12 MONTH WEIGHT
12 MONTH WEIGHT ACCURACY
EBV 18 MONTH WEIGHT
18 MONTH WEIGHT ACCURACY
EBV C/D ADG
C/D ADG ACCURACY
EBV C/D KLEIBER
C/D KLEIBER ACCURACY
EBV C/D SCROTUM CIRCUMFERENCE
C/D SCR ACCURACY
EBV C/D HEIGHT
C/D HEIGHT ACCURACY
EBV C/D BODY LENGTH
C/D BODY LENGTH ACCURACY
EBV CALVING TEMPO
CALVING TEMPO ACCURACY
EBV COW PROFIT

A1 TEST NUMBER	WEIGHT ON RTU DATE
A2 TEST NUMBER	RTU RIB FAT
B1 TEST NUMBER	RTU RUMP FAT
B2 TEST NUMBER	RTU EYE MUSCLE AREA
C/D TEST NUMBER	RTU EQUIPMENT
KEEPER PARTICIPANT NUMBER	RTU MARBLING
A1 KEEPER PARTICIPANT NUMBER	RTU MARBLING INDEX
A2 KEEPER PARTICIPANT NUMBER	RTU MEAT %
B1 KEEPER PARTICIPANT NUMBER	RTU MEAT % INDEX
B2 KEEPER PARTICIPANT NUMBER	RTU MUSCLE %
C/D KEEPER PARTICIPANT NUMBER	RTU MUSCLE % INDEX
EBV MATURE WEIGHT	RTU KG MEAT
MATURE WEIGHT ACCURACY	ANIMAL DNA NUMBER
EBV STAYABILITY	2. MATING TYPE
STAYABILITY ACCURACY	2. MATING DATE IN
EBV FEED PROFIT	2. MATING DATE OUT
FEED PROFIT ACCURACY	2. MULTISIRE MATING
EBV FEED INTAKE	2. MATING SIRE NAME
FEED INTAKE ACCURACY	2. MATING SIRE COMPUTER NUMBER
EBV FAT THICKNESS	2. MATING SIRE DNA NUMBER
FAT THICKNESS ACCURACY	1. MATING TYPE
EBV EYE MUSCLE AREA	1. MATING DATE IN
EYE MUSCLE AREA ACCURACY	1. MATING DATE OUT
EBV MARBLING	1. MULTISIRE MATING
MARBLING ACCURACY	1. MATING SIRE NAME
EBV C/D FEED CONVERTION RATIO	1. MATING SIRE COMPUTER NUMBER
FEED CONVERTION RATIO ACCURACY	1. MATING SIRE DNA NUMBER
RTU PERFORMANCE TEST NUMBER	
RTU MEASUREMENT DATE	

Note:

- This is an old routine and the dates are still in YYYY/MM/DD format.
- Field 37: Dna if available, else lidcat if available, else blood type number
- Field 188: Dna if available, else nothing.
- Fields 189-195. Before last mating after last calving date. Only for female animals
- Fields 196-202: Last mating after last calving date. Only for female animals.
- Fields 189,196: Mating Type: 1=natural mating,2=AI,3=embryo implantation
- Fields 192,199: Y=multi sire mating, N=not multi sire mating

Breeding Values for beef

ANIMAL NUMBER
BIRTH DIRECT
BIRTH DIRECT ACCURACY
BIRTH MATERNAL
BIRTH MATERNAL ACCURACY
CALF TEMPO
CALF TEMPO ACCURACY
WEAN DIRECT
WEAN DIRECT ACCURACY
WEAN MATERNAL
WEAN MATERNAL ACCURACY
WEAN COMBINED MATERNAL
12 MONTH WEIGHT
12 MONTH WEIGHT ACCURACY
18 MONTH WEIGHT
18 MONTH WEIGHT ACCURACY
FEED INTAKE (depreciated)
FEED INTAKE ACCURACY (depreciated)
FEED CONVERTION RATIO
FEED CONVERSION RATIO ACCURACY
FEED PROFIT INDEX
FEED PROFIT INDEX ACCURACY
MATURE WEIGHT
MATURE WEIGHT ACCURACY
STAYABILITY
STAYABILITY ACCURACY
AV DAILY GAIN
AV DAILY GAIN ACCURACY
KLEIBER
KLEIBER ACCURACY
SCROTUM CIRCUMFERENCE
SCROTUM CIRCUMFERENCE ACCURACY
HEIGH
HEIGHT ACCURACY
BODY LENGTH
BODY LENGTH ACCURACY
INBREEDING COEFICIENT
ANIMAL ID
ANIMAL NAME
ANIMAL BIRTH DATE
ANIMAL SEX
SIRE ID
SIRE ANIMAL NUMBER
DAM ID
DAM ANIMAL NUMBER
BLUP PUBLICATION DATE
N.A.
FAT THICKNESS
FAT THICKNESS ACCURACY
EYE MUSCLE AREA
EYE MUSCLE AREA ACCURACY
MARBLING
MARBLING ACCURACY
AGE FIRST CALVING
AGE FIRST CALVING ACCURACY
INTER CALVING PERIOD
INTER CALVING PERIOD ACCURACY
COW PROFIT
COW PROFIT ACCURACY
DRESSING %
DRESSING % ACCURACY
KG MEAT
KG MEAT ACCURACY
COW EFFICIENCY
COW EFFICIENCT ACCURACY
POST WEAN
POST WEAN ACCURACY
PRODUCTION INDEX
PRODUCTION INDEX ACCURACY
COW EASE
COW EASE ACCURACY
COW MILK
COW MILK ACCURACY
COW GROWTH
COW GROWTH ACCURACY
COW HEIGHT
COW HEIGHT ACCURACY
COW REPRODUCTION

COW REPRODUCTION ACCURACY

Note:

- This is an old routine and the dates are still in YYYYMMDD format.
- The herd and breed average breeding values are also supplied in this file. When ANIMAL NUMBER is set to "Herd Ave", then the record/line contains herd average breeding values and when set to "Nat. Ave" is contains breed average breeding values. In these two cases only the breeding values are supplied, the accuracies are not applicable and should not be read.

Data extraction for dairy software

Dairy data extraction is not sent automatically, but upon request and there is a fee involved based on the number of records extracted. All animals in a herd (optionally with 1, 3 or 5 generations of ancestors) or specific animals can be requested.

Animal information

GEN
ANIMAL_NUMBER
RASKODE
GESLAG
KKM
JAARSYFER
VOLGNOMMER
GEREGKOMM
DIERIDNOMMER
REKENAARNOMMER
TELERNOMMER
EIENAARNOMMER
EIENDATUM
EINDEIEN
VOORVOEGSEL
NAAM
GEBDATUM
DOODDATUM
GEBGEWIG
GGRELIABLE
GEBSTATUS
TWEELINGMET
AFDELING
OAFDELING
VAARIDNOMMER
VAARREKENAARNR
MSINDICATOR
MOERIDNOMMER
MOERREKENAARNR
BLOEDDNANOMMER
DIERSTATUS
NVR
IDMETODE1
IDMETODE2
DEKKODE
KALFSTATUS
GEMAKVKALWING
ABNORMALITEITE1
ABNORMALITEITE2
ABNORMALITEITE3
KLEURKODE
HORINGS
INSPEKSIEDATUM
AFGOEDGEKEUR
KANSELLASIEDATUM
KANSELLASIEREDE
PERFRECORDED
COUNTRY_CODE
LINCLAS
BODY
FL
UDDER

FINPOINT

Note: *This is an old routine and the dates are still in YYYY/MM/DD format.*

i) Completed lactations

Animal Number
No
Calving Date
End Date
Termination Reason
Milk Index
Fat Index
Protein Index
No Milk Yield Measurements
Lactation Length
Milk Yield
Milk Yield305
Fat Yield
Fat Yield 305
Protein Yield
Protein Yield 305
Lactose Yield
Lactose Yield305
Fat%
Protein%
Lactose%
Fat % 305
Protein % 305
Lactose % 305
Lactation Index
Avg. Somatic Cell Count
Somatic Cell Count Index
Lactation Calculation Date
Avg. Milkings per Day

Note: *This is an old routine and the dates are still in YYYY/MM/DD format.*

ii) Test day results

Information pending...

iii) Linear Classifications

Information pending...

Field explanations - Beef

ADA ..... Average Daily Gain (ADG) per Day of Age
ADA_IDX ..... ADA Index
ADA_TYR ..... ADA Ten Year Rolling Average
ADAPTATION_START_DTM ..... Adaptation start date
ADG ..... Average Daily Gain
ADG_IDX ..... ADG Index
ADG_TYR ..... ADG Ten Year Rolling Average
AGE_AT_TEST ..... Age at test
ANIMAL_NUMBER ..... The animal's computer number (10 characters with leading zeroes)
BEEF_TEST_CODE ..... Beef Test Code
BODY_LENGTH_ADJ ..... Adjusted Body Length
BODY_LENGTH_UNADJ ..... Unadjusted Body Length
CONTS ..... Number of Contemporaries
COW_EFFICIENCY ..... Cow efficiency
COW_EFFICIENCY_INDEX ..... Cow efficiency index
DERIVATION_DTM ..... Date of derivation
FCR ..... Feed Conversion Ratio
FCR_IDX ..... FCR Index
FCR_TYR ..... FCR Ten Year Rolling Average
GROUP_CODE ..... Group Code
HLR ..... Height to Length Ratio
KR ..... Kleiber Ratio
KR_INDEX_GRP ..... KR Index
KR_TYR ..... KR Ten Year Rolling Average
SC ..... Scrotum Circumference
SC_UNADJ ..... Unadjusted SC
SHOULDER_HEIGHT_ADJ ..... Adjusted Height
SHOULDER_HEIGHT_UNADJ ..... Unadjusted Height
SKIN_THICKNESS ..... Skin Thickness
TEST_CODE ..... Test Code
TEST_FINISH_DTM ..... Finishing date of test
TEST_START_DTM ..... Starting date of test
WEIGHING_DTM ..... Weighing date
WEIGHT ..... Weight
WEIGHT_BEGIN_ADAPTATION ..... Weight at beginning of Adaptation
WEIGHT_BEGIN_TEST ..... Weight at beginning of Test
WEIGHT_END_TEST ..... Weight at end of Test
WEIGHT_UNADJ ..... Unadjusted Weight
ANIMAL_ID ..... Animal New ID (BBBSHHHHYYSSSS)
RTU_DTM ..... RTU Measurement Date
RTU_RUMP_FAT ..... RTU Measured Rump Fat Thickness
RTU_FAT_DEPTH ..... RTU Measured Fat Depth
RTU_MUSCLE_AREA ..... RTU Measured Eye Muscle Area
MARBLING ..... RTU Measured Marbling
MARBLING_INDEX ..... RTU Calculated Marbling Index
MEAT_PERC ..... RTU Calculated Carcass Red Meat %

MEAT_PERC_INDEX ..... RTU Calculated Carcass Red Meat % Index
MUSCLE_PERC ..... RTU Calculated Muscle %
MUSCLE_PERC_INDEX ..... RTU Calculated Muscle % Index
KG_MEAT ..... RTU Calculated KG Predicted Red Meat

Field explanations - Dairy

Animal Number ..... Animal's computer number/registration number
Parity/No ..... Calf Number
Calving date ..... Latest calving date applicable to lactation results
End of lactation ..... Date on which lactation is terminated
Fat % ..... Average fat percentage for the lactation
Fat index ..... Index relating fat yield to age group average
Fat yield ..... Kg fat produced during the lactation
Fat yield(305 days) ..... Predicted/actual kg fat produced during 305 day period
Lactation date ..... Date on which lactation was calculated
Lactation index ..... Combined index for milk, fat and protein, over age groups
Lactation length ..... Number of days cow was milked
Lactose % ..... Average lactose percentage for the lactation
Lactose yield ..... Kg lactose produced during the lactation
Lactose yield(305 days) ..... Predicted/actual kg lactose produced during 305 day period
Milk index ..... Index relating milk production to that of group average
Milk yield ..... Kg milk produced during the lactation
Milk yield(305 days) ..... Predicted/actual kg milk produced over 305 day period
Number of measurements ..... Actual number of milk weights recorded during lactation
Protein % ..... Average protein percentage for the lactation
Protein index ..... Index relating protein yield to age group average
Protein yield ..... Kg protein produced during the lactation
Protein yield(305 days) ..... Predicted/actual kg protein produced during 305 day period
SCC 24H ..... Average Somatic cell count for lactation
SCC Index 24H ..... A value presenting the average somatic cells in milk
Urea concentration 24H ..... Average urea concentration during the lactation
Termination reason/Afsluitrede ..... Lactation Termination reason

Document formats of data sent to Logix

Birth notification

The preferred format for the Batch nr field for birth notifications is:

Character(s)	Description	Example
1	Document type (should be 'A')	A
2 - 4	Herd breed code	ABC
5 - 11	Member nr	1234567
12 - 15	Software identifier and daily sequence nr	Z001 or KD01

Field name	Field Type	Field Length	Contents
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document code	Alpha	4	ANIM
Action type	Alpha	1	C-create, U-update, D-delete
Document type	Alpha	1	B-Birth Notification F-First Acceptance
Purpose	Alpha	1	M-Milk B-Beef D-Dual
NFR	Alpha	1	Y-if not for registration, N-if for registration
Participant code	Alphanum	10	Member nr (7)+ ICAR breed code(3)
Sex	Alpha	1	F-Female M-Male
Registered/Commercial	Alpha	1	R-Registered C-Commercial
Animal Breed Code	Alpha	3	ICAR breed code of animal
Animal Id Nr	A,A,A,A,A,R	15	ICAR Breed Code (3), Sex (1), HDM (4), Year (2), Seq (4), Regis/Comm (1) * for commercial and blank for registered animal
Main Id method	Num	1	1-Tattoo, 2-Earcode, 3-Tag, 4-Double tag, 5-Colour, 6-Brand, 7-Photo, 8-Electronic.
Name	Alphanum	20	Name of animal.
Sub Id method	Num	1	As for Main Id method
Farm Animal Nr	Alphanum	10	The farmer's animal number
Service	Num	1	1-Natural, 2-AI, 3-Inovulation
Birthdate	Date	8	Birth date of animal (DDMMCCYY)
Birth weight	Num	3	Birth weight of animal
Birth weigh date	Date	8	DDMMCCYY
Birth weight Reliable	Alpha	1	Y-reliable, N-not reliable.
Birth weight contemporary group	Number	6	See Appendix A
Dam weight at calving	Num	3	Dam weight at calving
Dam weigh date	Date	8	DDMMCCYY
Dam weight Reliable	Alpha	1	Y-reliable, N-not reliable.
Birthstatus	Num	1	1-single, 2-twins, 3-triplets or more
Sex of twin	Alpha	1	F-female, M-male

Field name	Field Type	Field Length	Contents
Cow feeding status	Num	1	1-Ca-P, 2-Mixed, 3-No lick, 4-Concentrate, 5-Other lick, 6-Pastures.
Takeon Animal Preg Status	Num	1	T-Pregnant, F-Not pregnant, D-Dubious.
Pregnancy Status Date	Date	8	Date on which pregnancy status was checked. (DDMMCCYY)
Birth abnormalities (X3)	Num	9 (3,3,3)	A valid birth abnormality code.
Calf status	Num	1	1-Alive, 2-Abort, 3-Abort before 7 months, 4-still born, 5-Died at birth, 6-Destroyed
Calf ease	Num	1	1-Normal, 2-little, 3-serious, 4-casarian, 5-cut out
Section	Alphanum	2	To indicate section of First Acceptance animal
Subsection	Alphanum	2	To indicate subsection of First Acceptance animal. Also to be used on Birth Notification for Aberdeen Angus and Frieslands to override black and red subsections (if necessary)
HornPoll	Alpha	2	H, P, PP, PH, HP, DH, SC
Inspection weight	Num	4	Inspection weight.
Inspector Participant code	Alphanum	10	Participant code of inspector
Inspection date	Date	8	Inspection date. (DDMMCCYY).
Colour	Num	2	1-Typical, 2-Red, 3-Red/White, 4-White/Red, 5-Black, 6-Yellow, &Roadn, 8-White, 9-RedWhite under, 10-Yellow/White, 11-Grey, 12-Black/White, 13-Whole, 14-Broken
Dam comp nr	Num	10	Dam computer nr.
Sire Comp nr	Num	10	Sire computer nr.
Dam id nr	A,A,A,A,N,R	15	Dam Id Nr – Format as for Animal Id Nr
Sire id nr	A,A,A,A,N,R	15	Sire Id Nr – Format as for Animal Id Nr
Semen code	Alphanum	7	Sire semen code.
Date received	Date	8	The Current Date (DDMMYYYY)
Multiple sires	Alpha	1	Y indicate multiple sires.
Lowest section	Alphanum	2	Lowest section of sires if multiple sires are used.

Phase A/B weights

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document code	Alpha	4	WLAB
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example A11BON200301
Test start date	Date	8	DDMMCCYY
Test end date	Date	8	DDMMCCYY
Observer Nr	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Birthdate	Date	8	DDMMCCYY
Animal weight	Number	3	Weight of animal at time of this test
Dam weight	Number	4	Weight of dam at time of this test (Use leading zero's e.g. 0040 for 40kg) – Leave blank or use 0000 if the dam was not weighed.
Weighing date	Date	8	DDMMCCYY
Record group code	A,N,N	5 (1,2,2)	The recording group consists of 3 separate fields: sex, rear status code, feeding status code. E.g. F0102
Dam feeding status	N	2	Feeding status of the dam.
Reason for unreliable	N	2	Reason for unreliable

- Records C to G as described below at Phase C/D performance tests can also be sent in for A/B performance tests, all records in one file.

Phase C/D performance tests

a) General Test Record

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	TEST
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Test Type	Alpha	3	Example D11
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Adaptation Date	Date	8	DDMMCCYY
Test start date	Date	8	DDMMCCYY
Test end date	Date	8	DDMMCCYY
Feeding Regime Code	Alpha	1	
Feeding System Code	Alpha	1	
Diet Code	Alpha	1	

b) Weight Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code

Fieldname	Field type	Field length	Description
Document Code	Alpha	4	WLCD
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Birthdate	Date	8	DDMMCCYY
Test date	Date	8	DDMMYYYY Date on which weight was taken
Weight Type	Alpha	3	BAD Phase C of D Begin Adaptation Weight BTE Phase C or D Begin Test Weight ITE Phase C or D Intermediate Test Weight ETE Phase C or D End Test Weight
Animal Weight	Number	3	Left padded with zeros

c) Body Measurement Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	BODY
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Test date	Date	8	DDMMYYYY Date on which body measurements were taken
Shoulder Height	Number	4	In mm, Left padded by zeros
Hip Height	Number	4	In mm, Left padded by zeros
Body Length	Number	4	In mm, Left padded by zeros
Scrotum Circumference	Number	4	In mm, Left padded by zeros
Skin Thickness	Number	4	In mm, Left padded by zeros
Unreliable	Alpha	1	Y / N
Future use	Number	21	Reserved for future use. Enter 21 zeros in this field.

d) Feed Intake Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	FEED
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.

Fieldname	Field type	Field length	Description
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Test date	Date	8	DDMMYYYY Date on which feed was eaten
Roughage	Number	4	In kg, Left padded by zeros
Concentrates	Number	4	In kg, Left padded by zeros
Complete Ration	Number	4	In kg, Left padded by zeros
Unreliable	Alpha	1	Y / N
Future use	Number	21	Reserved for future use. Enter 21 zeros in this field.

e) Functional Appearance Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	FUNC
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Test date	Date	8	DDMMYYYY Date on which trait marks were given.
Temperament	Number	1	The mark given to the applicable trait
Hair Straightness	Number	1	The mark given to the applicable trait
Skin Pigmentation	Number	1	The mark given to the applicable trait
Lower Jaw Length	Number	1	The mark given to the applicable trait
Face Straighness	Number	1	The mark given to the applicable trait
Overall Muscling	Number	1	The mark given to the applicable trait
Girth Fullness	Number	1	The mark given to the applicable trait
Topline	Number	1	The mark given to the applicable trait
Rump Angle	Number	1	The mark given to the applicable trait
Testicle Hipoplasia	Number	1	The mark given to the applicable trait
Scrotum Circumference	Number	1	The mark given to the applicable trait
Epididimus Size	Number	1	The mark given to the applicable trait
Sheath Length	Number	1	The mark given to the applicable trait
Sheath Fleshiness	Number	1	The mark given to the applicable trait
Prepuce Prolapse	Number	1	The mark given to the applicable trait
Hock Angle	Number	1	The mark given to the applicable trait
Pasterns Angle	Number	1	The mark given to the applicable trait
Front Legs Strg. (fv)	Number	1	The mark given to the applicable trait
Front Feet Alignment	Number	1	The mark given to the applicable trait
Hoove Split	Number	1	The mark given to the applicable trait
Hoove Length	Number	1	The mark given to the applicable trait
Hoove Inside Wall Strg.	Number	1	The mark given to the applicable trait
General Appearance	Number	1	The mark given to the applicable trait
Masculinity	Number	1	The mark given to the applicable trait
Future use	Number	21	Reserved for future use. Enter 21 zeros in this field.

f) Tick Count Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	TICK
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Test date	Date	8	DDMMYYYY Date on which trait marks were given.
Measurement Type	Number	1	1 = All Ticks
Measurement	Number	4	Number of tick counted, left padded by zeros
Unreliable	Alpha	1	Y / N
Future use	Number	21	Reserved for future use. Enter 21 zeros in this field.

g) Ultrasonic Measurement Records

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	RTUM
Keeper nr	Alphanum	10	Participant code of keeper of this animal
Beef Test Code	A,A,N,N	12 (3,3,4,2)	The beef test code consists of 4 separate fields: test type, breed code, test year and test nr. Example D11BON201101
Observer Number	Alphanum	10	Participant code of observer who has perform the actual weighing of the animal.
Farmers animal nr	Alphanum	10	A number that a farmer allocates to his animal
Animal Comp nr	Number	10	Computer number allocated to this animal
Test date	Date	8	DDMMYYYY Date on which trait RTU measurements were taken.
Measurement Site	Number	1	1 = Rib 12-13 2 = Rump P8
Rump Subcutaneous Fat	Number	5	Left padded with zeros, 1Decimal, ex: 123.4
Rib Subcutaneous Fat	Number	5	Left padded with zeros, 1 Decimal, ex: 123.4
Eye Muscle Area	Number	5	Left padded with zeros
DELETED	Number	5	00000
Intramuscular Fat %	Number	5	Left padded with zeros, 1 Decimal, ex: 123.4
Scanning System	Number	1	1 = Pie 200 2 = Aloca 500 3 = Pie 100 4 = Aquila Vet
Unreliable	Alpha	1	Y / N
Future use	Number	21	Reserved for future use. Enter 21 zeros in this field.

- Records A to G are all entered in the same file.

Matings

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document code	Alpha	4	SERV
Action Type	Alpha	1	C
Service Type	Alpla	1	N = Natural Mating A = Artificial Insemination
Dam Particiant Number	Number	10	Optional
Dam Comp Number	Number	10	Computer number of the animal which have been mated.
Dam ID Number	A,A,A,N,N,A	(3,1,4,2,4,1) 15	Optional: Dam Official ID
Sire Participant Number	Alpha	10	Optional
Sire Comp Nr	Number	10	Computer number of the sire which have been mated with.
Sire ID Number	A,A,A,N,N,A	8	Optional: Official ID of the Sire
Date In	Date	8	DDMMYYYY AI Date or starting date when sire walked with dam
Date Out	Date	8	DDMMYYYY AI Date or ending date when sire walked with dam

Transfers

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	TRNS
Action Type	Alphanum	1	C
Action Code	Alpha	1	B
Animal Comp nr	Number	10	Computer number allocated to this animal
Animal ID Number	A,A,A,N,N,A	(3,1,4,2,4,1) 15	Animal Official ID
Owner Participant nr	Number	10	Participant code of existing owner of the animal.
Buyer Participant nr	Number	10	Optional: Participant code of the new owner of the animal. Although the field is optional, its highly recommended to include it in the file
Transfer Date	Date	8	DDMMYYYY
Date Received	Date	8	DDMMYYYY Optional: Date the animal was received by the new owner.
Buyer Initials	Alpha	4	Optional when Buyer Participant nr has been specified
Buyer Name	Alpha	25	Optional when Buyer Participant nr has been specified
Buyer Address	Alpha	24	Optional when Buyer Participant nr has been specified
Buyer Address	Alpha	24	Optional when Buyer Participant nr has been specified
Buyer Address	Alpha	24	Optional when Buyer Participant nr has been specified
Buyer Postal Code	Alpha	4	Optional when Buyer Participant nr has been specified

Cancellations

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	CANC
Action Type	Alphanum	1	C
Participant nr	Number	10	Participant code of owner of the animal. Replace breed part of participant code with 000, for example 0123456000
Animal Comp nr	Number	10	Computer number allocated to this animal
Animal ID Number	A,A,A,N,N,A	(3,1,4,2,4,1) 15	Animal Official ID
Cancellation Date	Date	8	DDMMYYYY
Cancellation Reason	Number	2	Left padded with 0 01 – Animal Died 02 – Culled at Inspection 03 – Per-capita Cancellation 04 – TB Positive

Photos

Allowable Image Size: Any Size, preferably in landscape
Image Format: JPG
Photo File Name: Animal Computer Number followed by image file extension, Example: 0012345678.jpg

Pack photo file(s) in a zip archive and send to SA Stud Book

Milk Weights

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document code	Alpha	3	Must always be TST
Participant code	Alpha	10	Code of participant which consists of a member number of 7 digits and breed code of 3 characters
Test date	Numeric	8	Test date of test which is in the format DDMMCCYY
Time 1	Numeric	4	First milking time that is HHMM. If a value is entered here leading zeroes must be punched e.g. 0805. If nothing is entered, 4 blanks must be given in file.
Time 2	Numeric	4	Second milking time that is HHMM. If a value is entered here leading zeroes must be punched e.g. 0805. If nothing is entered, 4 blanks must be given in file.
Time 3	Numeric	4	Third milking time that is HHMM. If a value is entered here leading zeroes must be punched e.g. 0805. If nothing is entered, 4 blanks must be given in file.
Time 4	Numeric	4	Fourth milking time that is HHMM. If a value is entered here leading zeroes must be punched e.g. 0805. If nothing is entered, 4 blanks must be given in file.
Farmers Animal Nr	Alpha	10	A number given by the farmer can be entered here. If nothing is entered, 10 blanks must be given in file.
Animal computer Nr	Numeric	10	The computer number of the animal can be entered here. If nothing is entered, 10 blanks must be given in file.
Animal alternative number	Alpha	15	The identification nr of the animal can be entered here. If nothing is entered, 15 blanks must be given in file.
Calving date	Numeric	8	If there is a new calving date for an animal, it can be entered here. If nothing is entered, 8 blanks must be given in file.
Lactation termination date	Numeric	8	If the lactation is terminated, the date can be entered here. If nothing is entered, 8 blanks must be given in file.
Bottle nr	Numeric	4	If a sample was taken the bottle nr can be entered here. If nothing is entered, 4 blanks must be given in file.
Milk weight 1	Numeric	3	If milk weight 1 was taken, the weight can be entered. If nothing is entered, 3 blanks must be given in file.
Milk weight 2	Numeric	3	If milk weight 2 was taken, the weight can be entered. If nothing is entered, 3 blanks must be given in file.
Milk weight 3	Numeric	3	If milk weight 3 was taken, the weight can be entered. If nothing is entered, 3 blanks must be given in file.
Milk weight 4	Numeric	3	If milk weight 4 was taken, the weight can be entered. If nothing is entered, 3 blanks must be given in file.
Cow condition	Alpha	1	If a cow condition is available, this field will be entered. If nothing is entered, 1 blank must be given in file.
Termination Reason	Numeric	2	When the lactation is terminated and a reason is available, it can be entered here. If nothing is entered, 2 blanks must be given in file.
Cow weight	Numeric	3	Cow's weight when milked. If nothing is entered, 3 blanks must be given in file.

LINEAR CLASSIFICATIONS

Fieldname	Field type	Field length	Description
Batch nr	Alphanum	15	Batch nr allocated by data editing
Reference Code	Alphanum	10	Any reference code
Document Code	Alpha	4	LNCL
Observer Nr	Number	10	Stud book member number of person who did the classification
Animal Comp nr	Number	10	Computer number allocated to this animal
Animal ID Number	A,A,A,N,N,A	(3,1,4,2,4,1) 15	Animal Official ID
Classification Date	Date	8	DDMMYYYY
Classification	Number	500	See Below *

Field 8, Classification Encoding:

[Trait Identification Code ":" Trait Value] { ";" Trait Identification Code ":" Trait Value }

Say for example 3 traits are measured: Front Legs Front, Rear Legs Rear and General Appearance and their values measured / pointed, were 1, 7.5 and M++. The Stud Book codes for these traits are FLF, RLR and GAP. This will be written as: FLF:1;RLR:7.5;GAP:M++

The order of the traits are not important. Any number of traits and corresponding value for each trait can be specified as long as valid Stud Book Trait Codes for the animal's breed are used and total length of encoding isn't longer than 500 characters.

See Appendix B for a list of valid trait codes for each breed

Logix Direct

Logix Direct is a new way to communicate to Logix and upload and download data through API functions. All the data that can be up and downloaded are currently available as Logix screens though which users can download the data. With Logix Direct, third party software providers can include these functionalities into farm software.

API address: https://www.logix.org.za/Dienste/DataOnttrek/Client.php

Request for data and uploading of data occurs by sending html parameters to the API. Parameters can be send either by html GET or POST method. For uploading data, you are recommended to rather use POST as GET parameters could be truncated by the html protocol. All parameter names must be in lower case.

How data is returned:

- No line breaks (ex Chr(10) and or Chr(13) combinations) are included. Instead, the characters "[eol]" are used to indicate a line break. Third party developers can thus split / explode the returning string using "[eol]" as the split characters
- A successful request will always return "ok[eol]" as the first line. The lines following, can contain either data of information
- Lines with data are prefixed with "f:" and information lines with "i:" . Thus, by writing all the "f:" lines to a file, you are in effect downloading the requested file. The content of files downloaded in this way areidentical to file structures used by existing Logix screens and automated email replies.

Compulsory API Parameters:

user - The Logix username a client uses to login onto www.logix.org.za

pass - The password of the client

function - Indicates the API function that must be called. Depending on which function is called, there could be additional parameters.

breeder - Participant number of breeder, ex: 0123456AAN

API Functions

1. LOGIN

This function tests if the supplied username and password is valid. It returns "ok[eol]
" if correct, else an error string indicating the login was unsuccessful. In effect, all API functions call login. It is just supplied as a separate function for possible login check functions in third party software.

function=login

Additional Parameters: **none**

Info lines returned: **none**

2. REQUEST COMPUTER NUMBERS OF NEW CALVES

With this function you may request the computer numbers of calves (and older animals) for which birth notifications were sent in to Stud Book and for which you haven't yet received the assigned computer numbers. The layout of the returned data is as described at: *New animals accepted on the system*.

function=beefreqnewcompnrs
Additional Parameters:

- "nids" – The 14 character ID of the animals' which computer numbers are requested. Separate multiple NIDs by ";". NID format:
  - 3 digit breed code
  - 1 digit sex ("F"=Female, "M"=Male)
  - 4 digits for herd designation mark. Right pad HDM with " " (space / Chr(32))
  - 2 digit year value
  - 4 digit sequence number. Left pad sequence numbers with "0"

Info lines returned:

Where animal not found on Logix, returns: "i:*NID*=not found[eol]
"

3. REQUEST PERFORMANCE TEST LIST

With this function you may request a list of performance tests that are loaded on Logix for the breeder. Data are returned as csv with columns for Beef Test Code, Test Adaptation Date, Test Start Date and Test End Date. For phase A/B test, the adaptation date column will also contain the test start date, in other words, the adaptation and test start date will be the same.

function= beefreqperflist
Additional Parameters: none
Info lines returned: none

4. REQUEST PERFORMANCE TEST RESULTS

With this function you may request the calculated results of one of more beef performance tests as calculated in Logix. The layout of the returned data is as described at: *Results of beef tests*

function= beefreqperfdata
Additional Parameters:

- "beeftests" –The code(s) of the performance test(s) whose results are requested, for example: "A21AAN201201". Separate multiple beef tests codes by ";"

Info lines returned:

Where a performance test was not found on Logix, returns: "i:*beeftestcode*=not found[eol]
"

5. REQUEST PER CAPITA LIST

This function will return the per capita list for the breeder in csv format. The layout of this file is the same as when downloading the csv file from Logix by doing: Reports > Inventory > Beef – Inventory List

function=beefreqpercapita
Additional Parameters:

- "keeperowner" – Optional parameter. (use "K" for Keeper, "O" for Owner) By default the per capita list will be created as for the current keeper of the animals. If you wish to draw the per capita from an owners point of view, set this parameter to "O"

Info lines returned: **none**

6. REQUEST ANIMAL DATA

With this function animal information can be withdrawn, for example when a breeder bought an animal from a fellow breeder and wish to import such information into his/her farm software. The layout of the returned data is as described at: ***Data extraction for beef software***

function=beefreqanidata
Additional Parameters:

- "compids" – The 10 digit computer numbers of the animal(s) whose data must be extracted. Separate multiple animals by ";"
- "gen"- The number of pedigree generations to include in the data extraction. Valid values are "1", "3" and "5"

Info lines returned:

- Where animal not found on Logix, returns: "i:*COMPNO*=not found[eol]
"

7. REQUEST ANIMAL LIST

This function is similar to the per capita request. It only differs in that animals are always returned from the keeper's point of view and the amount of data is less. There is no similar Logix function. CSV lines are returned with each line only containing the computer number and NID of each animal. This function was included in API as a light weight alternative to the per capita request where third party developers may wish to combine API functions and have the need to first draw a list of the breeder's animals.

function=beefreqanilist
Additional Parameters: **none**
Info lines returned: **none**

8. BREEDING VALUES

With this function breeding values animals of whom the breeder were the original breeder or are the current keeper of, together with breeding values for their pedigrees. The layout of the returned data is as described at: ***Breeding values for beef***

function= beefreqblup
Additional Parameters: **none**
Info lines returned: **none**

9. UPLOADING DATA

Rather than sending data to Stud Book via e-mail or paper, the API makes it possible to directly sent data to Logix. All the API functions handling data upload uses the same parameters. The function names only differ by type of data to ensure correct internal handling of data within Logix. All these functions will return "ok[eol]
" on success or an error message on failure.

function=sendanim	- Upload birth notifications (ANIM document)
function= beefsendperf	- Upload performance test data (WLAB and WLCD)
function= beefsendmatings	- Upload matings, excluding embryo implants (SERV)
function= beefsendtranscancel	- Upload transfers / cancellations (TRNS and CANC)

Additional Parameters:

- "cc" - Optional: In Logix, the incoming data is written to a file and e-mailed to the correct data centre. If you wish to receive a copy of this mail, provide an e-mail address to where the e-mail should be cc'd.
- "filedata" – The actual data being uploaded. The format of the data should be as is prescribed elsewhere in this document for the applicable type of data being uploaded. The only difference is that NO line breaks (ex Chr(10) and or Chr(13) combinations) are allowed. Instead you must use "[eol]" between lines (Note, no "
" here!).

Info lines returned: **none**