Data Interchange Format

Version 7 for format 251 Version 6 for format 201 Version 3 for formats 105, 114, 202, 211, 212, 261, 481 Version 2 for formats 101, 108, 110, 112 and 501 Version 1 for all other formats

For the transfer of data between Australian dairy herd improvement organisations

July 2022

Formats official from 1 July 2022



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DataGene formats for transfer of data between Australian Dairy Herd Improvement Organisations.

The Data Interchange Formats (DIF) are designed to standardise and facilitate transfer of data between DataGene, Data Processing Centres (DPCs) and other participants in the dairy herd improvement industry. The formats were implemented by DataGene and all DPCs on 1 July 1997. There have been updates in January 2000, May 2001, June 2003, September 2007, April 2012, March 2015, December 2017, February 2018, November 2020 and July 2022.

Features of the Data Interchange Formats

- In the attached formats, the Animal ID that links an animal to its traits and pedigree is the National Animal ID.
- All dates are expressed in yyyymmdd format where:
 - yyyy = 4 digit year (eg. 1984, 1995, 2001)

mm = 2 digit month (eg. 02 = February, 11 = November)

dd = 2 digit day of the month (eg. 01, 13, 27)

When a date is unknown, the field is space filled.

- Numeric fields are right justified and space filled
- Alpha/numeric or character fields are left justified and space filled.
- Test-day components are expressed as percentages rather than as yield in kilograms.
- Each record is identified with a record type. This enables multiple record types to be supplied in the one file if this is convenient.
- Formats developed from May 2001 onwards contain a version number as the second field in each record.

Routine transfer of Data to DataGene

- Routine dumps should include record types 101, 102, 103, 104,105, 106, 107, 108 and 112.
- DataGene requires the data sorted in the order specified in each format description. The major sort key should be record type if a file contains more than one record type.
- Routine dumps from DPCs should include a herd record (format 101), all lactations in progress and all lactations that terminated or reached 305 days since the previous dump (format 103). All test day records (format 104) must be provided for each lactation provided. A cow record (format 102) must be provided for each cow with an eligible lactation record and for all cows up to 30 months of age regardless of lactation status. Workability records (format 106), mating records (format 108) and ease of calving records (format 112) that occurred since the previous dump should also be provided with a herd record (format 101) and a cow record (format 102).
- Daily dumps are preferred.
- Routine weekly or monthly dumps are acceptable to DataGene. The data required at each dump will be negotiated between DataGene and the DPC concerned, following the principle of transferring the minimum amount of data that will ensure data integrity (a minimum of three months overlap) on both the DPC and DataGene computer systems.

Transfer of Data between DPCs or to Farm PC packages.

- Herd transfer dumps between DPCs, and to Farm PC packages, should include all data held on the system for the herd (this will typically be record types 101 - 108, 112 and 211).
- File names should contain the National Herd ID and the extension 'DIF' if various record types are included in a single file (e.g., C12345H.DIF), or the format number if separate files are provided for each record type (e.g., C12345H.102).
- All records in the file, including the last record, are to be delimited by a carriage return <u>and</u> line feed.



The following formats are described in this document

| Format | ing formats are described in this docume Data Record | Version | Page | Latest Update |
|--|--|-------------|-------------------|-----------------------------|
| 101 | Herd Record | 2 | 1 | 14 th June 2002 |
| 102 | Cow Pedigree Record | 1 | 2 | 9 th May 2001 |
| 102 | Lactation Record | 1 | 3 | 9 th May 2001 |
| 104 | Test Day Record | 1 | 4 | 9 th May 2001 |
| 105 | Bull Pedigree Record (incorporates NASIS | 3 | 6 | 22 nd May 2012 |
| | file) | | · · | |
| 106 | Workability Record | 1 | 7 | 9 th May 2001 |
| 107 | Herd Test Day Production Record | 1 | 8 | 9 th May 2001 |
| 108 | Mating Record | 2 | 9 | 22 nd May 2012 |
| 110 | Disclosure/Non Disclosure Record | 2 | 11 | 9 th May 2001 |
| 111 | Liveweight Record | 1 | 12 | 9 th May 2001 |
| 112 | Calving Ease Record for a Calf | 2 | 13 | 27 th Feb 2018 |
| 114 | Conformation Trait Record | 3 | 15 | 6 th Sept 2007 |
| 115 | International Cow Pedigree Record | 1 | 17 | 9 th May 2001 |
| 116 | Herd Health Record | 1 | 18 | 14 th June 2003 |
| 201 | Bull ABVs for All Traits | 6 | 19 | 4 th Nov 2020 |
| 202 | Cow ABVs for All Traits | 3 | 22 | 4 th Nov 2020 |
| 211 | Cow ABVs for Production Traits | 3 | 25 | 18 th Nov 2014 |
| 212 | Herd Mean ABVs for Production Traits | 3 | 27 | 18 th Nov 2014 |
| 251 | Bull ABVs for All Traits (extended file) | 7 | 29 | 4 th Nov 2020 |
| 261 | Cow ABVs for All Traits (extended file) | 3 | 39 | 4 th Nov 2020 |
| 401 | Record for pre-printing of LTE forms | 1 | 43 | 26 th April 2001 |
| 481 | Genotype Nominations file | 3 | 44 | 22 nd May 2012 |
| 501 | Progeny Test Daughter Progress Report | 2 | 45 | 6 th Sept 2007 |
| 502 | Calving Ease for Progeny Test Bulls | 1 | 47 | 26 th April 2001 |
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| Note 2 | Herdbook ID | | A-4 | 7 th May 1997 |
| Note 3 | National Animal ID | | A-5 | 7 th May 1997 |
| Note 4 | Data Processing Centre (DPC) Codes | | A-7 | 22 nd May 2012 |
| Note 5 | Termination Codes | | A-8 | 7 th May 1997 |
| Note 6 | Codes for Organisations that own bulls or | | A-9 | 22 nd May 2012 |
| | request | | | |
| Note 7 | Health Event Codes | | A-10 | 9 th May 2001 |
| Note 8 | National Herd ID | | A-11 | 9 th May 2001 |
| Note 9 | NLIS formats (Animal Transfer and Animal Termination) | | A-12 | 9 th May 2001 |
| Note 10 | Genetic codes | | A-13 | 22 nd May 2012 |
| | Formats discontinued as from 14 th June | | | , |
| Appendix | | 1 | 1 | 1 |
| Appendix B | 2003 | | | |
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| B 101 | Herd Record Bull Pedigree Record (incorporates NASIS file) | | | |
| B 101 105 110 | Herd Record Bull Pedigree Record (incorporates NASIS file) Disclosure Record | | | |
| B 101 105 110 114 | Herd Record Bull Pedigree Record (incorporates NASIS file) Disclosure Record Conformation Trait Record | 1 1 1 | B-2 | |
| B 101 105 110 114 201 | Herd Record Bull Pedigree Record (incorporates NASIS file) Disclosure Record Conformation Trait Record Bull ABVs for All Traits | 1 1 | B-2 B-3 | |
| B 101 105 110 114 | Herd Record Bull Pedigree Record (incorporates NASIS file) Disclosure Record Conformation Trait Record Bull ABVs for All Traits Formats discontinued as from 4 th March | 1 1 1 | B-2 B-3 B-4 | |
| B 101 105 110 114 201 Appendix | Herd Record Bull Pedigree Record (incorporates NASIS file) Disclosure Record Conformation Trait Record Bull ABVs for All Traits | 1 1 1 | B-2 B-3 B-4 | |



| 201 | Bull ABVs for All Traits | 2 | C-3 | |
|---------------|--|---|------|--|
| 501 | Progeny Test Daughter Progress Report | 1 | C-5 | |
| Appendix | Formats discontinued as from April 2012 | | | |
| D | Dull Dadiana a Dagard (in same mater NACIO | 0 | | |
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| 108 | Mating Record | 1 | D-4 | |
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| 212 | Herd Mean ABVs for Production Traits | 1 | D-8 | |
| 251 | Bull ABVs for All Traits (extended file) | 1 | D-9 | |
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Data Format 101 V2

Herd Record

| Fiel No. | d Field Name | Start column | | Numeric/ Alpha | Comments | S |
|-------------|---|-----------------|--------|-------------------|----------------------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 10 | 01 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 2 | |
| 3 | National Herd ID Farmer Name and Address | 5 | 7 | А | See Note | 8 |
| 4 | Full Name | 12 | 35 | A | | or Company name to appear first in o allow sorting on Farmer Name to ngful. |
| 5 | Line 1 | 47 | 35 | А | | 5 |
| 6 | Line 2 | 82 | 35 | А | | |
| 7 | Line 3 | 117 | 35 | А | | |
| 8 | Postcode | 152 | 4 | Ν | | |
| 9 | Farmer Phone Number Location Details | 156 | 15 | A | | |
| 10 | State Code | 171 | 1 | А | First digit | of state postcode |
| 11 | Location Code | 172 | 3 | А | | herds to be grouped by Region |
| 12 | NLIS Property Identification C | Code175 | 8 | А | | 0 1 9 0 |
| 13 | GPS Latitude | 183 | 8 | Ν | Farm loca System | tion using Global Positioning |
| 14 | GPS Longitude | 191 | 8 | Ν | - | |
| | Herd Codes | | | | | |
| 15 | Testing Frequency | 199 | 1 | N | Value | 1 = 24 hour test 2 = Alternate am/pm 3 = 3 times a day milking 4 = Other |
| 16 | Sampler | 200 | 1 | A | Value | F = Farmer sampler R = Recorder sampler U = Unknown sampler C = Farmer Collection |
| 17 18 | DPC Code Local Herd ID | 201 202 | 1 9 | A A | Local ID u (format = char) | eessing Centre - see Note 4 ised by the DPC State Code (1 char), Herd ID (7 ode (1 char)) |

RECORD LENGTH = 210 bytes

<u>Global Positioning System coordinates (GPS Latitude and GPS Longitude)</u> The GPS coordinates identify the location of the property. The units are degrees x 100000 (that is, there is an implied decimal place after the third digit). Negative signs are omitted.

Essential fields for DataGene are 1, 2, 3, 4, 8, 10, 11, 15, 16, 17. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3.



Data Format 102 V1

Cow Pedigree Record

| Fiel No. | d Field Name | Start Columr | | Numeric /Alpha | Comments |
|-------------|--------------------------------|-----------------|-----|-------------------|--|
| 1 | Record Type | 1 | 3 | N | Value = 102 |
| 2 | Record Version Number | 4 | 1 | A | Value = 1 |
| - | Herd ID | • | • | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| • | Cow Identity | · · | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | N | |
| - | Herdbook ID | | - | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | А | See Note 2 |
| 8 | NLIS Animal ID | 42 | 16 | А | |
| 9 | NLIS Tag Radio Frequency | 58 | 16 | А | |
| 10 | Breed | 74 | 4 | А | See Note 1 |
| 11 | Birth date | 78 | 8 | Ν | yyyymmdd |
| | Pedigree details | | | | |
| 12 | Sire National ID | 86 | 9 | А | See Note 3 |
| 13 | Dam National ID | 95 | 9 | А | See Note 3 |
| 14 | MGS National ID | 104 | 9 | А | See Note 3 (Required by DataGene if Dam ID |
| | | | | | is unavailable, and MGS is available) |
| | Transfer Details | | | | See explanation below |
| 15 | Transfer-in date | 113 | 8 | Ν | yyyymmdd |
| 16 | National ID of Herd Transferre | ed from | 121 | 7 | A See Note 8 |
| | Cow Name | | | | |
| 17 | Long | 128 | 40 | А | |
| 18 | Short | 168 | 16 | А | |
| | Cow status codes | | | | |
| 19 | Animal termination code | 184 | 2 | А | Sold and dead codes - see Note 5 |
| 20 | Animal termination date | 186 | 8 | Ν | yyyymmdd |
| 21 | Sire verification flag | 194 | 1 | А | Value Y = yes; N = no |
| | | | | | |

RECORD LENGTH = 194 bytes

<u>Transfer of Cows between Recorded Herds</u> DataGene needs to have the capacity to analyse lactations with the herd in which the lactation occurs. If a cow is transferred from one herd to another, the details required are the date of transfer of a cow into a herd and the National Herd ID of her previous herd. The vast majority of cows are never transferred, and for these cows the two fields should be left blank.

Essential fields for DataGene are 1, 2, 3, 4, 7, (6 if 5 is non-blank), (21 if 12 is non-blank). Fields 11 and 12 are also required for a cow to receive an ABV. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Data Format 103 V1 Lactation Record

| Fiel No. | d Field Name | Start L Column | .ength | Numeric /Alpha | Comments |
|-------------|---------------------------|-------------------|--------|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 103 |
| 2 | | 4 | 1 | A | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Details | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Calving Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Calving Code | 35 | 1 | A | 0 or N = normal calving; 1 or I = induced calving; 2 or A = aborted; 3 or L = induced lactation |
| 8 | Parity | 36 | 2 | N | Parity is the lactation number, if known. It is the number of lactations for the cow, whether recorded or otherwise |
| | Standard Lactation yields | | | | 300 or 305 day yields |
| 9 | Standard Lactation Code | 38 | 1 | Ν | 0 = 300 days, 1 = 305 days |
| 10 | Milk | 39 | 6 | Ν | Litres |
| 11 | Fat | 45 | 3 | Ν | Kilograms |
| 12 | Protein | 48 | 3 | Ν | Kilograms |
| 13 | Lactose | 51 | 3 | Ν | Kilograms |
| 14 | Total solids | 54 | 3 | Ν | Kilograms |
| | Total lactation yields | | | | |
| 15 | Milk | 57 | 6 | Ν | Litres |
| 16 | Fat | 63 | 4 | Ν | Kilograms |
| 17 | Protein | 67 | 4 | Ν | Kilograms |
| 18 | Lactose | 71 | 4 | N | Kilograms |
| 19 | Total solids | 75 | 4 | Ν | Kilograms |
| | Lactation Status Codes | | | | |
| | Termination date | 79 | 8 | N | yyyymmdd, blank if lactation in progress |
| 21 | Termination code | 87 | 2 | A | See Note 5 |
| 22 | | 89 | 1 | A | Value A=accept; R=reject |
| ~~~ | Production Index | ••• | • | | |
| 23 | Milk | 90 | 3 | N | |
| 24 | Fat | 93 | 3 | N | |
| 25 | Protein | 96 | 3 | N | The state field for a set former of a set bir of DL (the |
| 26 | Customised PI | 99 | 3 | N | Use this field for any form of combined PI (the same formula for all records from a given DPC) |
| 27 | Number of tests in PI | 102 | 2 | Ν | , |
| | | | | | |

RECORD LENGTH = 103 bytes

Essential fields for DataGene are 1,2,3,4,6,7,22. Field 9 is essential if yields are supplied. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.



Data Format 104 V1

Test Day Record

| Fiel No. | d Field Name | Start Column | • | Numeric /Alpha | Comments |
|-------------|----------------------------------|-----------------|----|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 104 |
| 2 | Record Version Number Herd ID | 4 | 1 | А | Value = 1 |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow details | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Calving Date | 27 | 8 | Ν | yyyymmdd |
| | Test Day Information | | | | |
| 7 | Test Date | 35 | 8 | Ν | yyyymmdd |
| 8 | Milk Yield | 43 | 4 | Ν | Units are litres x 10 (ie. $124 = 12.4$ litres.) |
| 9 | Fat percentage | 47 | 4 | Ν | Percentage x 100 (ie. $450 = 4.50 \%$) |
| 10 | Protein percentage | 51 | 4 | Ν | Percentage x 100 |
| 11 | Lactose percentage | 55 | 4 | Ν | Percentage x 100 |
| 12 | Total solids % | 59 | 4 | Ν | Percentage x 100 |
| 13 | Milk Urea Nitrogen (MUNs) | 63 | 3 | Ν | Milligrams per decilitre |
| 14 | Somatic cell count | 66 | 5 | Ν | Units are cell count/1000 (ie. 750 = 750,000) |
| 15 | Test day modifier | 71 | 2 | Ν | See note below |
| 16 | Flag for BST use | 73 | 1 | Ν | 0=no hormone; 1=hormone treatment |
| 17 | Testing Frequency | 74 | 1 | Ν | Value 1 = 24 hour test 2 = Alternate am/pm (yields are |
| 18 | Number of days in milk yield a | average | 75 | 2 | expressed as 24 hour yields) 3 = 3 times a day milking 4 = Other N Leave this field blank if milk yield is based on one day only. Use this field if milk |
| | | | | | yield is an average of several test days. |

RECORD LENGTH = 76 bytes

Test day modifier

DataGene codes for excluding test days are:

- 0 Acceptable record
- 1 In-season (on heat)
- 2 Mastitis
- 3 Temporary Illness or Injury
- 4 AM or PM Sample Lost
- 5 Other reason for exclusion

Number of days in Milk Yield Average

Leave this field blank if milk yield is based on one day only. Use this field if milk yield is an average of several test days. For example, where daily volume measures are provided as the average of a calendar month. If milk yield is the average of more than one day, all cows in the herd should have the same test date.

Essential fields for DataGene are 1,2,3,4,6,7,8,15,16,17. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6, 7.



Data Format 105 V3 NASIS file)

Bull Pedigree Record (incorporates

| Fiel No. | d Field Name | Start Columr | | Numeric /Alpha | Comments |
|-------------|----------------------------|-----------------|-----|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 105 |
| 2 | Record Version Number | 4 | 1 | А | Value = 3 |
| | Bull Identity | | | | |
| 3 | Bull National ID | 5 | 9 | А | See Note 3 |
| | Bull Herdbook ID | | | | |
| 4 | Country Code | 14 | 3 | А | See Note 2 |
| 5 | Herdbook Number | 17 | 12 | A | See Note 2 |
| 6 | Local Bull ID | 29 | 15 | A | |
| 7 | Date of Birth | 44 | 8 | Ν | yyyymmdd |
| 8 | Bull Breed | 52 | 4 | A | See Note 1 |
| | Pedigree Details | | | | |
| 9 | Sire National ID | 56 | 9 | A | See Note 3 |
| 10 | Dam National ID | 65 | 9 | A | See Note 3 |
| 11 | MGS National ID | 74 | 9 | А | See Note 3 |
| 12 | Bull name | 83 | 40 | A | |
| | NASIS Bull Details | | | | |
| | NASIS Primary ID | 123 | 7 | А | |
| 14 | Bull ID | 130 | 12 | А | |
| 15 | Bull Owner Code | 142 | 3 | А | See Note 6 |
| 16 | International ID | 145 | 19 | А | Interbull format - see note below |
| 17 | PT Sampling Code | 164 | 1 | А | |
| 18 | Date First Semen Available | 165 | 8 | Ν | yyyymmdd |
| 19 | Genetic Codes | 173 | 8x3 | А | Up to 8 three-character codes - see note 10 |
| 20 | NASIS Active Sire Code | 197 | 1 | A | A = active, R = restricted, W = warning of a possible conflict with the ID of another bull, blank = not active |
| 21 | Common name 1 | 198 | 12 | А | Name used in marketing of bull |
| 22 | Common name 2 | 210 | 12 | А | Name used in marketing of bull |
| 23 | Date Sexed Semen Available | 222 | 8 | Ν | yyyymmdd(blank=no sexed semen available) |

RECORD LENGTH = 229 bytes

| International ID | | | | | | | |
|--|--|--|--|--|--|--|--|
| The International ID as designated by Interbull has the following format | | | | | | | |
| Breed | 3 characters (eg, HOL, JER, AYS, GUE) | | | | | | |
| Country | 3 characters (eg, AUS, USA, CAN - see Note 2 for a full list of codes) | | | | | | |
| Sex | 1 character (M or F) | | | | | | |
| Within-Country ID | 12 characters (right justified, zero filled) | | | | | | |

Essential fields for DataGene are 1, 2, 3, 8. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3.



Data Format 106 V1 Workability Record

| Fiel No. | d Field Name | Start L Column | ength | Numeric /Alpha | Comments |
|-------------|----------------------------------|-------------------|-------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 106 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 1 |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Details | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Calving Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Parity | 35 | 2 | Ν | Parity is the lactation number, if known. It is the number of lactations produced by the cow, whether recorded or otherwise. |
| | Cow parameters | | | | |
| 8 | Likability | 37 | 1 | А | See note below |
| 9 | Temperament | 38 | 1 | А | See note below |
| 10 | Milking Speed | 39 | 1 | A | See note below |

RECORD LENGTH = 39 bytes

Likability

(All things being equal, would you like more cows like this one in your herd?)

- Very Definitely (One of the best cows in the herd) А
 - В Definitely (Well liked cow)
 - С Probably (Satisfactory cow)
 - Probably not (Do not like the cow) D
 - Е Definitely not (Plan to sell the cow)

Temperament

- Placid А
- В Quiet
- С Average
- D Nervous
- Е Very Nervous

Milking Speed

- А Very Fast
 - В Fast
 - С Average
 - D Slow
- Е Very Slow

Essential fields for DataGene are 1,2,3,4,6,8,9,10. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.



Data Format 107 V1

Herd Test Day Production Record

| Fiel No. | d Field Name | Start Column | | Numeric /Alpha | Comments |
|-------------|-------------------------|-----------------|---|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 107 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| 4 | Herd Test Visit Date | 12 | 8 | Ν | yyyymmdd |
| | Number of Cows | | | | |
| 5 | Total cows | 20 | 4 | Ν | |
| 6 | Fresh cows | 24 | 4 | Ν | |
| 7 | Terminated cows | 28 | 4 | Ν | |
| 8 | Cows cell counted | 32 | 4 | Ν | |
| | Herd Yield Averages | | | | |
| 9 | Milk yield | 36 | 4 | Ν | Units are litres x 10 (ie. $124 = 12.4$ litres.) |
| 10 | Fat percentage | 40 | 4 | Ν | Percentage x 100 (ie. 450 = 4.50 %) |
| 11 | Protein percentage | 44 | 4 | Ν | Percentage x 100 |
| 12 | Lactose percentage | 48 | 4 | Ν | Percentage x 100 |
| 13 | Total solids percentage | 52 | 4 | Ν | Percentage x 100 |
| 14 | Milk Urea Nitrogen | 56 | 3 | Ν | Milligrams per decilitre |
| 15 | Somatic Cell Count | 59 | 6 | Ν | Cell Count / 1000 |
| 16 | Testing Frequency | 65 | 1 | Ν | Value 1 = 24 hour test |
| | | | | | 2 = Alternate am/pm |
| | | | | | 3 = 3 times a day milking |
| | | | | | 4 = Other |
| | | | | | |

RECORD LENGTH = 65 bytes

This record is not used by DataGene.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Data Format 108 V2

Mating/Preg Test Record

| Fiel No. | d Field Name | Start Columr | - | Numeric /Alpha | Comments |
|-------------|--|-----------------|----|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 108 |
| 2 | Record Version Number Herd ID | 4 | 1 | А | Value = 2 |
| 3 | National Herd ID Cow Details | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID Mating / Preg Test Details | 21 | 6 | Ν | |
| 6 | Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Code | 35 | 3 | Ν | See mating codes below |
| 8 | Result | 38 | 5 | A | Free field for describing test result. For pregnancy diagnosis result (code 10,20,30), it is the number of days in calf. |
| | Mating Details | | | | |
| 9 | Mating Start Date | 43 | 8 | Ν | yyyymmdd at herd or individual cow level |
| 10 | Fresh semen used | 51 | 1 | А | Y = Yes, N = No |
| 11 | Semen straw split | 52 | 1 | Ν | Indicates the number of inseminations per straw, 1 = Not split, 2 = Split into two parts, 3 = Split into three parts |
| 12 | Bull National ID | 53 | 9 | А | See Note 3 |
| 13 | Semen Batch Number | 62 | 10 | А | |
| 14 | Technician Code Embryo Transfer Donor ID Herd ID | 72 | 7 | A | A code for each AI-Centre Technician |
| 15 | National Herd ID Cow Details | 79 | 7 | А | See Note 8 |
| 16 | National Cow ID | 86 | 9 | А | See Note 3 |
| 17 | Within-Herd Cow ID | 95 | 6 | Ν | |

RECORD LENGTH = 100 bytes

Essential fields for DataGene are 1, 2, 3, 4, 6, 7, (if mating code (Field 7) = "1 - 8", field 10,11,12 are essential - if code = "1" or "6", field 14 is also essential - if code = "10, 20, 30", field 8 is essential)

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.

Mating codes on next page



| Mating/Preg Te | st event codes | |
|------------------|--------------------|---|
| DataGene Code | Mating MNEMONIC | Mating Event Name |
| Mating Codes | | |
| 1 | MAP | Mating-AI-Centre Technician |
| 2 | MA | Mating-AI-DIY |
| 3 | MN | Mating-Natural |
| 4 | MNC | Mating-Natural Controlled |
| 5 | ME | Mating-Embryo Implanted |
| 6 | MAPS | Mating-AI-Centre Technician – Sexed Semen |
| 7 | MAS | Mating-AI-DIY – Sexed Semen |
| 8 | MS | Mating-Sync/Intervention |
| Preg Test Codes | 6 | |
| 10 | - PD | Pregnancy Test |
| 18 | PIN | Pregnancy Test IDEXX Not Pregnant |
| 19 | PIC | Pregnancy Test IDEXX Confirmed Pregnant |
| 20 | OS | Pregnancy Test using Confirm |
| 30 | US | Pregnancy Test using Ultrasound |
| Heat Observatio | n Codes | |
| 101 | HO | Heat Observed with No Mating |
| 102 | HM | Heat - Multiple Ovulation / Flush |



Data Format 110 V2 D

Disclosure / Non-Disclosure Record

| Fiel No. | d Field Name | Start Column | - | Numeric /Alpha | Comments |
|-------------|--------------------------------|-----------------|---|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 110 |
| 2 | Record Version Number | 4 | 1 | А | Value = 2 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| 4 | Organisation with/without Auth | hority12 | 3 | А | See Note 6 |
| 5 | Date initiated | 15 | 8 | Ν | yyyymmdd |
| 6 | Disclosure | 23 | 1 | А | (Y = disclose data to Organisation, N = don't disclose data to Organisation) |
| 7 | DPC Code | 24 | 1 | A | Data Processing Centre - see Note 4 (leave blank if not provided by a DPC |

RECORD LENGTH = 24 bytes

The record exists to authorise DataGene to disclose data for a herd to organisations other than the DPC which provided the data to DataGene, or to prohibit DataGene from disclosing data to other organisations.

All fields are essential for DataGene.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Data Format 111 V1

Liveweight Record

| Fiel No. | d Field Name | Start Columr | - | Numeric /Alpha | Comments |
|-------------|-----------------------|-----------------|---|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 111 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Details | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Date of weighing | 27 | 8 | Ν | yyyymmdd |
| 7 | Liveweight | 35 | 3 | Ν | Units are kg |
| 8 | Condition score | 38 | 2 | Ν | Units are score x 10 (ie. $45 = 4.5$ condition score) |

RECORD LENGTH = 39 bytes

This record is not currently used by DataGene.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.



Data Format 112 V2

Calving Ease Record for a Calf

| Fiel No. | d Field Name | Start Column | - | Numeric /Alpha | Comments |
|-------------|----------------------------------|-----------------|---|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 112 |
| 2 | Record Version Number Herd ID | 4 | 1 | А | Value = 2 |
| 3 | National Herd ID Cow Details | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Calving Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Parity | 35 | 2 | Ν | Parity is the lactation number, if known. It is the number of lactations produced by the cow, whether recorded or otherwise. |
| 8 | Last mating date | 37 | 8 | Ν | yyyymmdd - see note below |
| 9 | National ID of Sire of Calf | 45 | 9 | А | See Note 3 |
| 10 | National ID of Genetic Dam of | f Calf54 | 9 | А | See Note 3. Blank if same as birth mother |
| 11 | National ID of Calf | 63 | 9 | А | See Note 3 |
| 12 | MISTRO Reference No. | 72 | 9 | Ν | Internal use only |
| 13 | Litter size | 81 | 1 | Ν | The number of calves born |
| | Calving parameters | | | | |
| 14 | Calving Ease | 82 | 1 | А | See note below |
| 15 | Calving Code | 83 | 1 | A | 0 or N=normal calving; 1 or I=induced calving; 2 or A=aborted; 3 or L=induced lactation |
| 16 | Sex of Calf | 84 | 1 | А | See note below |
| 17 | Size of Calf | 85 | 1 | А | See note below |
| 18 | Fate of Calf | 86 | 1 | А | See note below |

RECORD LENGTH = 86 bytes

<u>Birth Mother</u> Fields three to eight all relate to the birth mother. <u>Last mating Date</u> This is the last mating date, or estimated conception date, prior to the calving date shown in the record.

Calving Ease

System introduced 2007

- A No difficulty B Slight difficulty
- C Moderate difficulty
- D High difficulty

System phased out from 2007

- 1 or X Unobserved not OK
- 2 or K Unobserved OK
- 3 or N Observed no assistance
- 4 or E Observed easy pull
- 5 or H Observed very difficult



- 6 or S Observed surgical
- 7 or M Observed malpresentation

Size of Calf

- H Huge
- B Large
- N Average
- S Small
- T Tiny

Sex of Calf

- F Female
- M Male
- U Undefined

Fate of Calf

- L Live
- D Dead

Essential fields are 1,2,3,4,6,9,13,14,15,16,17,18. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.



Data Format 114 V3 Conformation Trait Record

| Fiel No. | d Field Name | Start | Length | n Numeric /Alpha | Comments |
|-------------|--------------------------------------|--------|--------|---------------------|---|
| 1 | Record Type | 1 | 3 | Ň | Value = 114 |
| 2 | Record Version Number | 4 | 1 | А | Value = 3 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Identity | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| | Herdbook ID | | | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | А | See Note 2 |
| 8 | NLIS Animal ID | 42 | 16 | А | |
| 9 | NLIS Tag Radio Frequency | 58 | 16 | А | |
| 10 | Breed | 74 | 4 | А | See Note 1 |
| 11 | Birth date | 78 | 8 | Ν | yyyymmdd |
| | Pedigree details | | | | |
| 12 | Sire National ID | 86 | 9 | А | See Note 3 |
| 13 | Dam National ID | 95 | 9 | А | See Note 3 |
| 14 | MGS National ID | 104 | 9 | А | See Note 3 (Used by DataGene if Dam ID is |
| | | | | | unavailable, and MGS is available) |
| | Lactation details | | _ | | |
| 15 | Date of Calving | 113 | 8 | N | yyyymmdd |
| 16 | Parity | 121 | 2 | N | Lactation number |
| 17 | Date of Classification | 123 | 8 | Ν | yyyymmdd |
| 40 | Transfer Details | 404 | 0 | NI | See explanation below |
| 18 | Transfer-in date | 131 | 8 | N | yyyymmdd |
| 19 | National ID of Herd Transferred | a from | 139 | 7 | A See Note 8 |
| 20 | Classification Details Classifier | 146 | 3 | А | |
| 21 | Round | 149 | 2 | N | |
| 22 | Total Score for Animal | 151 | 2 | N | |
| 23 | Total Score for Dam | 153 | 2 | N | |
| 24 | Composite Traits | 155 | 7x2 | Ν | See next page for trait description - range 1- |
| | • | | | | 18 |
| 25 | Linear Traits | 169 | 25x1 | N | See next page for trait description - range 1-9 |
| 26 | Condition score | 194 | 2 | N | The characters for each defect and for |
| 27 | Defects and severity | 196 | 5x3 | Ν | Two characters for each defect, one for |
| 20 | Extra Composito Traits | 211 | 7x2 | N | severity |
| 28 | Extra Composite Traits | 211 | 1 72 | Ν | See next page for trait description - range 40- 96 |
| 29 | Condition score (range 1-9) | 225 | 1 | Ν | Not used by DataGene |
| 30 | Condition score (score) | 226 | 3 | N | Not used by DataGene |
| 31 | Number of times scored excelle | | | N | Not used by DataGene |
| | | | | | - |

RECORD LENGTH = 230 bytes

Essential fields are 1, 2,3,4,10,11,15,16,17,24,25. All other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Field 24 Composite Traits (range 1-18)

- 1 Overall Type
- 2 Mammary System
- 3 Feet and Legs
- 4 Dairy Strength
- 5 Rump
- 6 Unspecified, contact the relevant Breed Society
- 7 Unspecified, contact the relevant Breed Society

<u>Field 25 Linear Traits</u> - Range 1-9. Note that trait 16 (Rear Leg Rear View) is a new trait in 2001, 23 (Teat Placement Rear) and trait 25 (Front End Height) are new traits in 2002, and trait 14 (Heel Depth) is a new trait in 2007.

- 1 Stature
- 2 Udder Texture
- 3 Bone Quality
- 4 Angularity
- 5 Muzzle Width
- 6 Body Length
- 7 Body Depth
- 8 Loin Strength
- 9 Chest Width
- 10 Rump Length
- 11 Pin Width
- 12 Pin Set
- 13 Foot Angle
- 14 Heel Depth
- 15 Rear Set of Leg
- 16 Rear Leg Rear View
- 17 Udder Depth
- 18 Fore Attachment
- 19 Rear Attachment Height
- 20 Rear Attachment Width
- 21 Centre Ligament
- 22 Teat Placement Fore
- 23 Teat Placement Rear
- 24 Teat Length
- 25 Front End Height

Field 28 Extra Composite Traits (range 40-96) - Not used by DataGene but measured on some cows.

- 1 Overall Type
- 2 Mammary System
- 3 Feet and Legs
- 4 Dairy Strength
- 5 Rump
- 6 Unspecified, contact the relevant Breed Society
- 7 Unspecified, contact the relevant Breed Society



Data Format 115 V1

International Cow Pedigree Record

| Fiel No. | d Field Name | Start Columr | - | Numeric /Alpha | Comments |
|-------------|-----------------------|-----------------|----|-------------------|-----------------------------------|
| 1 | Record Type | 1 | 3 | Ν | Value = 115 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Animal Identity | | | | |
| 3 | National ID | 5 | 9 | А | See Note 3 |
| | Herdbook ID | | | | |
| 4 | Country Code | 14 | 3 | А | See Note 2 |
| 5 | Herdbook Number | 17 | 12 | А | See Note 2 |
| 6 | International ID | 29 | 19 | Α | Interbull format - see note below |
| 7 | Date of Birth | 48 | 8 | Ν | yyyymmdd |
| 8 | Breed | 56 | 4 | А | See Note 1 |
| 9 | Name | 60 | 40 | Α | |
| | Pedigree Details | | | | |
| 10 | Sire National ID | 100 | 9 | А | See Note 3 |
| 11 | Dam National ID | 109 | 9 | А | See Note 3 |
| 12 | MGS National ID | 118 | 9 | А | See Note 3 |
| | | | | | |

RECORD LENGTH = 126 bytes

This record exists to capture details on foreign cows for inclusion in the pedigree of bulls and cows used in Australia.

| International ID | | | | | | | |
|--|--|--|--|--|--|--|--|
| The International ID as designated by Interbull has the following format | | | | | | | |
| Breed | 3 characters (eg, HOL, JER, AYS, GUE) | | | | | | |
| Country | 3 characters (eg, AUS, USA, CAN - see Note 2 for a full list of codes) | | | | | | |
| Sex | 1 character (M or F) | | | | | | |
| Within-Country ID | 12 characters (right justified, zero filled) | | | | | | |

Essential fields are 1, 2, 3, 6. All other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3.



Data Format 116 V1 Herd Health Record

| Fiel No. | d Field Name | Start Columi | - | Numeric /Alpha | Comments |
|-------------|----------------------------------|-----------------|----|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 116 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 1 |
| 3 | National Herd ID Cow Details | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| | Health Event | | | | |
| 6 | Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Health event code | 35 | 5 | Ν | See Note 7 for health event codes |
| 8 | Health treatment code | 40 | 5 | Ν | See Note 7 for health treatment codes |
| 9 | Result | 45 | 5 | Α | Free field for describing test result. |
| 10 | Anatomical Position | 50 | 3 | Ν | 000=unspecified, 300=multiple quarters or the sum of the following variables: 001=Left, 002=Right 010=Front, 020=Rear 100=Upper, 200=Lower |
| 11 | Person Type | 53 | 1 | А | F = Farmer, V = Vet |
| 12 | Remarks | 54 | 30 | A | |

RECORD LENGTH =83 bytes

Essential fields for DataGene are 1,2, 3, 4, 6, (6 or 7). Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 5, 7.



Data Format 201 V6 Bull ABVs for All Traits

| Field No. | d Field Name | Start Column | - | Numeric /Alpha | Comments |
|--|--|--|---|-----------------------|---|
| | Record Type Record Version Number Bull Identity | 1 4 | 3 1 | N A | Value = 201 Value = 6 |
| 4 | National ID NASIS Bull ID NASIS Primary ID Herdbook ID | 5 14 26 | 9 12 7 | A A A | See Note 3 If NASIS If NASIS |
| | Country Code Herdbook Number Name Genetic Codes | 33 36 48 88 | 3 12 40 8x3 | A A A A | See Note 2 See Note 2 Up to 8 three-character codes (see note 10) |
| 10 11 12 | Bull Details Date of Birth Sire National ID Dam National ID MGS National ID | 112 120 129 138 | 8 9 9 9 | N A A A | yyyymmdd see Note 3 see Note 3 see Note 3 |
| 15 | ABV Analysis Details Breed of ABV Analysis Date of ABV Analysis Source of ABV Analysis | 147 148 156 | 1 8 1 | A N A | single character breed code - see Note 1 yyyymmdd A = ABV, I = prod. + conf. ABV(i), P = production ABV(i) only, C = conformation ABV(i) only |
| | Balanced Performance Inde Balanced Performance Index Reliability BPI ABVs for Production Traits | x (BPI) 157 161 | 4 2 | N N | |
| 20 21 22 | Australian Selection Index Protein Protein Percentage Milk | 163 167 171 176 | 4 4 5 5 | | Two decimal places (eg, -0.12) |
| 24 | Fat Fat Percentage Amount of data for Producti | | | N N | Two decimal places (eg, -0.12) |
| 26 27 28 29 | Reliability Number of Daughters Number of Herds Number in Herd - most Daugh Number in Herd - 2nd most Da Records in progress (RIP%) | | | N N N 4 N | N % of daughters with < 4 test days in 1 st |
| | ABVs for Conformation Trai | ts | | | lactation |
| 32 33 34 35 36 37 38 39 | Overall Type Mammary System Overall Feet & Legs Stature Udder Texture Bone Quality Angularity Muzzle Width Body Length Body Depth Loin Strength Chest Width | 214 217 220 223 226 229 232 235 238 241 244 247 | 3 | Z Z Z Z Z Z Z Z Z Z Z | _ |

DataGene Solutions for Herd Development

| Page | 19 |
|-------|----|
| i ugo | 10 |

| 43 | Rump Length | 250 | 3 | Ν | |
|----------|--------------------------------|-------------------|--|--------|---------------|
| 44 | Pin Width | 253 | 3 | Ν | |
| | Pin Set | 256 | 3 | Ν | |
| | Foot Angle | 259 | 3 | Ν | |
| 47 | Heel Depth | 262 | 3 3 | Ν | |
| | Rear Set of Leg | 265 | 3 | N | |
| 49 | Rear Leg Rear View | 268 | 3 | N | |
| | Udder Depth | 271 | 3 | N | |
| | Fore Attachment | 274 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | N | |
| | Rear Attachment Height | 277 | 3 | N | |
| | Rear Attachment Width | 280 | 3 | N | |
| | Centre Ligament | 283 | 3 | N | |
| | Teat Placement Fore | 286 | 3 | N | |
| | Teat Placement Rear (new trait | | 2 | N | |
| | Teat Length | 292 | 3 | N | |
| | Condition Score | 292 | 3 | N | |
| 50 | | 290 tion Troid | | | (kov troito) |
| 50 | Amount of data for Conforma | | s (aver | age of | r key traits) |
| | Reliability | 298 | 2 | N | |
| | Number of Daughters | 300 | 6 | N | |
| 61 | Number of Herds | 306 | 5 | Ν | |
| 00 | ABVs for Workability Traits | 044 | • | | |
| | ABV Milking Speed | 311 | 3 | N | |
| | ABV Temperament | 314 | 3 | N | |
| 64 | ABV Likability | 317 | 3 | N | |
| ~- | Amount of data for Workabili | | | | |
| | Reliability Workability Traits | 320 | 2 | N | |
| | Number of Daughters | 322 | 6 | N | |
| 67 | Number of Herds | 328 | 5 | Ν | |
| | ABV and Reliability for Surviv | | | | |
| | ABV Survival | 333 | 3 | Ν | |
| 69 | | 336 | 2 | Ν | |
| | ABV for Calving Ease | | | | |
| 70 | ABV Calving Ease | 338 | 3 | Ν | |
| | Amount of data for Calving E | ase | | | |
| 71 | Reliability Calving Ease | 341 | 2 | Ν | |
| 72 | Number of Calvings | 343 | 6 | Ν | |
| 73 | Number of Herds | 349 | 5 | Ν | |
| | ABV for Cell Count | | | | |
| 74 | ABV Somatic Cell Count | 354 | 3 | Ν | |
| | Amount of data for Cell Coun | t | | | |
| 75 | Reliability Cell Count | 357 | 2 | Ν | |
| 76 | • | 359 | 6 | Ν | |
| 77 | Number of Herds | 365 | 5 | Ν | |
| | ABV for Daughter Fertility | | | | |
| 78 | ABV Daughter Fertility | 370 | 3 | Ν | |
| | Amount of data for Daughter | | | | |
| 79 | Reliability Daughter Fertility | 373 | 2 | Ν | |
| 80 | | 375 | 6 | N | |
| 81 | Number of Herds | 381 | 5 | N | |
| • | ABV for Liveweight | | • | | |
| 82 | ABV Liveweight (kg) | 386 | 3 | Ν | |
| 02 | Amount of data for Liveweigh | | 0 | | |
| 83 | | 389 | 2 | Ν | |
| 00 | Genomics Evaluation | 505 | 2 | IN | |
| 84 | Genomics Evaluation | 391 | 1 | А | g=genomics |
| 04 | | 001 | I | Λ | g-genomics |
| | Health Weighted Index (HWI) | | | | |
| 85 | | 392 | 4 | Ν | |
| 60 86 | 0 | 392 396 | 4 2 | N | |
| 00 | Reliability HWI | 090 | 2 | IN | |
| | | | | | |

g=genomics included, blank otherwise



| - | _ | | | |
|-----|---------|---------|-------|------|
| с. | intain. | ahility | Index | /CI/ |
| ີວເ | istam | adiiilv | moex | 130 |

| | Sustainability index (SI) | | | |
|-----|---------------------------------|-----------|---|---|
| 87 | Sustainability Index | 398 | 4 | Ν |
| 88 | Reliability SI | 402 | 2 | Ν |
| | ABVs for New Traits | | | |
| 89 | ABV Residual Survival | 404 | 3 | Ν |
| 90 | Reliability Residual Survival | 407 | 2 | Ν |
| 91 | ABV Feed Efficiency | 409 | 5 | Ν |
| 92 | Reliability Feed Efficiency | 414 | 2 | Ν |
| | ABV for Rump | | | |
| 93 | ABV Rump | 416 | 3 | Ν |
| | ABV for Dairy Strength | | | |
| 94 | ABV Dairy Strength | 419 | 3 | Ν |
| | ABV for Heat Tolerance | | | |
| 95 | ABV Heat Tolerance | 422 | 3 | Ν |
| | Amount of data for Heat Tole | erance | | |
| 96 | Reliability Heat Tolerance | 425 | 2 | Ν |
| 97 | Number of Daughters | 427 | 6 | Ν |
| 98 | Number of Herds | 433 | 5 | Ν |
| | ABV for Gestation Length | | | |
| 99 | ABV Gestation Length | 438 | 3 | Ν |
| | Amount of data for Gestation | n Length | | |
| 100 | Reliability Gestation Length | 441 | 2 | Ν |
| 101 | Number of Calvings | 443 | 6 | Ν |
| 102 | 2 Number of Herds | 449 | 5 | Ν |
| | ABV for Mastitis Resistance | | | |
| 103 | 3 ABV Mastitis Resistance | 454 | 3 | Ν |
| | Amount of data for Mastitis F | Resistanc | e | |
| 104 | Reliability Mastitis Resistance | 457 | 2 | Ν |
| | • | | | |

RECORD LENGTH = 458 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3



Data Format 202 V3 Cow ABVs for All Traits

| Fiel No. | d Field Name | Start Column | - | Numeric /Alpha | Comments |
|-------------|-----------------------------------|-----------------|-------------|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 202 |
| | Record Version Number Herd ID | 4 | 1 | A | Value = 3 |
| 3 | National Herd ID Cow Identity | 5 | 7 | А | See DIF Document Note 8 |
| 4 | National ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID Herdbook ID | 21 | 6 | N | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | А | See Note 2 |
| 8 | Genetic Codes | 42 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| ~ | Cow Details | 00 | 4 | ٨ | |
| | Breed of cow | 66 | 4 | A | See Note 1 |
| | Date of Birth | 70 | 8 | N | yyyymmdd |
| | Date of Latest Calving | 78 | 8 | N | yyyymmdd |
| | Number of Lactations in ABV a | • | 86 | 2 | Ν |
| 13 | Crossbreed | 88 | 1 | А | 'X' if crossbreed, otherwise space |
| 14 | DPC Code | 89 | 1 | А | See Note 4 |
| | Pedigree details | | | | |
| 15 | Sire National ID | 90 | 9 | А | see Note 3 |
| | Dam National ID | 99 | 9 | А | see Note 3 |
| 17 | MGS National ID | 108 | 9 | А | see Note 3 |
| | ABV Analysis Details | | | | |
| | Breed of ABV Analysis | 117 | 1 | A | single character breed code - see Note 1 |
| | Date of ABV Analysis | 118 | 8 | N | yyyymmdd |
| 20 | Source of ABV Analysis | 126 | 1 | A | A = ABV, I = ABV(i) |
| | Balanced Performance Inde | • • | | | |
| 21 | Balanced Performance Index | 127 | 4 | N | |
| 22 | Reliability BPI | 131 | 2 | Ν | |
| റാ | ABVs for Production Traits | 100 | 4 | NI | |
| | Australian Selection Index | 133 137 | 4 4 | N N | |
| 24 25 | Protein Protein Percentage | 137 | 4 5 | N | Two decimal places (eq. 0.12) |
| 25 26 | Milk | 141 | 5 | N | Two decimal places (eg, -0.12) |
| 20 27 | Fat | 151 | 4 | N | |
| 28 | Fat Percentage | 155 | 5 | N | Two decimal places (eg, -0.12) |
| 20 | Amount of data for Producti | | - | | |
| 29 | Reliability | 160 | 2 | Ν | |
| | ABVs for Conformation Trai | ts | | | |
| 30 | Overall Type | 162 | 3 | Ν | |
| 31 | Mammary System | 165 | 3 | Ν | |
| 32 | Overall Feet & Legs | 168 | 3 3 3 | Ν | |
| 33 | | 171 | 3 | Ν | |
| | Udder Texture | 174 | 3 | Ν | |
| 35 | Bone Quality | 177 | 3 | N | |
| 36 | Angularity | 180 | 3 | N | |
| 37 | Muzzle Width | 183 | 3 | N | |
| 38 | Body Length | 186 | 3 | N | |
| 39 | Body Depth | 189 | 3 | N | |
| 40 | Loin Strength | 192 | 3 | N | |
| 41 | Chest Width | 195 | 3 3 | N N | |
| 42 | Rump Length | 198 | 3 | IN | |



| Page | 22 |
|------|----|
| гауе | 22 |

| 43 | Pin Width | 201 | 3 | N | |
|----|--|--------------------------|---|------------|---------------|
| | Pin Set | 204 | 3 | N | |
| | Foot Angle | 207 | | N | |
| | Heel Depth | 210 | 3 | N | |
| | Rear Set of Leg | 213 | 3 | N | |
| | Rear Leg Rear View | 216 | 3 | N | |
| | Udder Depth | 219 | 3 | N | |
| | Fore Attachment | 222 | 3 | Ν | |
| 51 | Rear Attachment Height | 225 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | Ν | |
| 52 | Rear Attachment Width | 228 | 3 | Ν | |
| 53 | Centre Ligament | 231 | 3 | Ν | |
| | Teat Placement Fore | 234 | 3 | Ν | |
| 55 | Teat Placement Rear (new trait | :)237 | 3 | Ν | |
| 56 | Teat Length | 240 | 3 | Ν | |
| 57 | Condition Score | 243 | 3 | Ν | |
| | Amount of data for Conforma | | | | f key traits) |
| 58 | Reliability | 246 | 2 | Ν | |
| | ABVs and Reliability for Worl | | | | |
| | ABV Milking Speed | 248 | 3 | N | |
| | ABV Temperament | 251 | 3 | N | |
| 61 | ABV Likability | 254 | 3 | N | |
| 62 | Reliability Workability Traits | 257 | 2 | Ν | |
| 00 | ABV and Reliability for Surviv | | • | | |
| | ABV Survival | 259 | 3 | N | |
| 64 | Reliability Survival | 262 | 2 | Ν | |
| 05 | ABV and Reliability for Calvir | | 0 | N 1 | |
| | ABV Calving Ease | 264 | 3 2 | N | |
| 00 | Reliability Calving Ease | 267 | Ζ | Ν | |
| 67 | ABV and Reliability for Cell C ABV Somatic Cell Count | 269 | 3 | Ν | |
| | Reliability Cell Count | 209 | 2 | N | |
| 00 | ABV and Reliability for Daugi | | | IN | |
| 69 | ABV Daughter Fertility | 274 | 3 | Ν | |
| | Reliability Daughter Fertility | 277 | 2 | N | |
| | ABV and Reliability for Livew | | - | | |
| 71 | ABV Liveweight (kg) | 279 | 3 | Ν | |
| | Reliability Liveweight | 282 | 2 | N | |
| | Genomic Evaluation | | | | |
| 73 | Genomic evaluation | 284 | 1 | А | g=genomics |
| | Health Weighted Index (HWI) | | | | 0 0 |
| 74 | Health Weighted Index | 285 | 4 | Ν | |
| 75 | Reliability HWI | 289 | 2 | Ν | |
| | Sustainability Index (SI) | | | | |
| 76 | Sustainability Index | 291 | 4 | Ν | |
| 77 | Reliability SI | 295 | 2 | Ν | |
| | ABVs for New Traits | | _ | | |
| | ABV Residual Survival | 297 | 3 | N | |
| | Reliability Residual Survival | 300 | 2 | N | |
| | ABV Feed Efficiency | 302 | 5 | N | |
| 81 | Reliability Feed Efficiency | 307 | 2 | Ν | |
| 00 | ABV for Rump | | • | | |
| 82 | ABV Rump | 309 | 3 | Ν | |
| 00 | ABV for Dairy Strength | 040 | 0 | N I | |
| 83 | ABV Dairy Strength | 312 Fol oronoo | 3 | Ν | |
| 01 | ABV and Reliability for Heat | | | N | |
| | ABV Heat Tolerance | 315 | 3 2 | N | |
| 60 | Reliability Heat Tolerance | 318 tion Lenc | | Ν | |
| 86 | ABV and Reliability for Gesta ABV Gestation Length | 320 | 3 | Ν | |
| 00 | ADV COStation Length | 520 | 0 | 1 1 | |
| | | | | | |

g=genomics included, blank otherwise



| 87 | | 323 | 2 | Ν |
|----|---------------------------------|----------|----------|---|
| | ABV and Reliability for Masti | itis Res | sistance | |
| 88 | ABV Mastitis Resistance | 325 | 3 | Ν |
| 89 | Reliability Mastitis Resistance | 328 | 2 | Ν |

RECORD LENGTH = 329 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3



DataGene Solutions for Herd Development

Data Format 211 V3 Cow ABVs for Production Traits

| Field No. | d Field Name | Start Column | | Numeric /Alpha | Comments |
|--------------|---|-----------------|-----|-------------------|---|
| 1 | Record Type | 1 | 3 | Ň | Value = 211 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 3 |
| 3 | National Herd ID Cow Identity | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| | Within-Herd Cow ID | 21 | 6 | N | |
| Ũ | Herdbook ID | | Ū | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | A | See Note 2 |
| • | Cow Details | | | | |
| 8 | Breed of cow | 42 | 4 | А | See Note 1 |
| | Date of Birth | 46 | 8 | Ν | yyyymmdd |
| | Date of Latest Calving | 54 | 8 | N | yyyymmdd |
| 11 | Number of Lactations in ABV a | | 62 | 2 | N |
| 12 | Crossbreed | 64 | 1 | Ā | 'X' if crossbreed, otherwise space |
| | DPC Code | 65 | 1 | A | See Note 4 |
| | Pedigree details | | | | |
| 14 | Sire National ID | 66 | 9 | А | See Note 3 |
| 15 | Dam National ID | 75 | 9 | А | See Note 3 |
| | MGS National ID | 84 | 9 | А | See Note 3 |
| | ABV Analysis Details | | | | |
| 17 | Breed of ABV Analysis | 93 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 94 | 8 | Ν | yyyymmdd |
| | Source of ABV Analysis | 102 | 1 | А | A=DataGene, I=Interbull |
| | Balanced Performance Index | · · | | | |
| | Balanced Performance Index | 103 | 4 | N | |
| 21 | Reliability BPI | 107 | 2 | Ν | |
| | ABVs for Production Traits | | | | |
| | Australian Selection Index (AS | | 4 | N | |
| | Protein | 113 | 4 | N | \mathbf{T} |
| 24 | Protein Percentage | 117 | 5 | N | Two decimal places (eg, -0.12) |
| 25 | Milk | 122 | 5 | N | |
| 26 | Fat | 127 | 4 | N | \mathbf{T} |
| | Fat Percentage | 131 | 5 | N | Two decimal places (eg, -0.12) |
| 28 | Reliability | 136 | 2 | N | N. Deale within Assetuation and within Dasad |
| 29 | Rank in Australia on ASI withir | 1-Dreed | 138 | 6 | N Rank within Australia and within Breed of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |
| 30 | Rank in Australia on BPI withir | n-breed | 144 | 6 | N Rank within Australia and within Breed of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |
| 31 | Genomic Evaluation Health Weighted Index (HWI) | 150 | 1 | А | g = genomics included |
| 32 | Health Weighted Index | 151 | 4 | Ν | |
| 33 | Reliability HWI | 155 | 2 | Ν | |
| | | | | | |

| Sustainability Index (SI)34Sustainability Index1535Reliability SI16Index Ranking16 | | 4 N 2 N | |
|--|---------|------------|---|
| 36 Rank in Australia on HWI within-bi | reed 16 | 63 6 | N Rank within Australia and within Breed |
| | | | of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |
| 37 Rank in Australia on SI within-bree | ed 16 | 59 6 | N Rank within Australia and within Breed of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |

RECORD LENGTH = 174 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Data Format 212 V3

Herd Mean ABVs for Production Traits

| Field No. | | Start L Column | .ength I | Numeric /Alpha | Comments |
|--------------|--|-------------------|----------|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 212 |
| | Record Version Number | 4 | 1 | А | Value = 3 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Herd Details | | | _ | |
| | DPC Code | 12 | 1 | A | See Note 4 |
| | Number of cows with ABVs | 13 | 5 | N | |
| 6 | Number of cows in Herd Avera | ges18 | 5 | Ν | Number of straightbred cows whose latest calving date is within 30 months of the Date of ABV Analysis (field 9) |
| 7 | Age Class Code | 23 | 2 | А | See note below |
| | ABV Analysis Details | | | | |
| | Breed of ABV Analysis | 25 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 26 | 8 | N | yyyymmdd |
| 10 | Source of ABV Analysis | 34 | 1 | A | A=DataGene, I=Interbull |
| | Herd Average ABVs for Prod | | | N I | |
| | Balanced Performance Index (| , | 6 | N | One decimal place (eg, -123.4) |
| | Australian Selection Index (AS | | 6 | N | One decimal place (eg, -123.4) |
| | Protein Protein Percentage | 47 53 | 6 6 | N N | One decimal place (eg, -12.4) Three decimal places (eg, -0.123) |
| | Milk | 53 59 | 7 | N | One decimal place (eg, -0.123) |
| | Fat | 66 | 6 | N | One decimal place (eg, -1234.3) |
| | Fat Percentage | 72 | 6 | N | Three decimal places (eg, -0.123) |
| | Rank of Herd on BPI | 78 | 6 | N | Rank within Australia and within Breed of ABV |
| | Rank of Herd on ASI | | | | Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |
| 19 | | 84 | 6 | Ν | Rank within Australia and within Breed of ABV Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |
| 20 | Health Weighted Index (HWI) | 90 | 6 | Ν | One decimal place (eg, -123.4) |
| 21 | Sustainability Index (SI) Index Ranking | 96 | 6 | Ν | One decimal place (eg, -123.4) |
| 22 | Rank of Herd on HWI | 102 | 6 | Ν | Rank within Australia and within Breed of ABV Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |
| 23 | Rank of Herd on SI | 108 | 6 | Ν | Rank within Australia and within Breed of ABV Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |

RECORD LENGTH = 123 bytes

Note : Herd mean ABVs are supplied for the following age classes (field 7) with one record per class per breed of analysis (field 8).

Code Class Age at calving

2J Junior 2 Up to 30 months



| 2S | Senior 2 | Over 30 and up to 36 months |
|----|----------|-----------------------------|
| ЗJ | Junior 3 | Over 36 and up to 42 months |
| 3S | Senior 3 | Over 42 and up to 48 months |
| 4J | Junior 4 | Over 48 and up to 54 months |
| 4S | Senior 4 | Over 54 and up to 60 months |
| 9M | Mature | Over 72 months |
| 9T | | All age groups combined |

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 8, 7.



Data Format 251 V7

Bull ABVs for All Traits (extended file)

| Fie No. | | Start Colum | - | hNumerio /Alpha | c Comments |
|------------|---|----------------|---------|--------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 251 |
| 2 | Record Version Number | 4 | 1 | A | Value = 7 |
| 2 | Bull Identity | F | 0 | ۸ | Cap Note 2 |
| 3 4 | National ID NASIS Bull ID | 5 14 | 9 12 | A A | See Note 3 If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | Â | If NASIS |
| 0 | Herdbook ID | 20 | ' | | |
| 6 | Country Code | 33 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 36 | 12 | А | See Note 2 |
| 8 | International ID | 48 | 19 | А | Interbull format |
| 9 | Name | 67 | 40 | A | |
| 10 | Genetic Codes | 107 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| 44 | Bull Details | 101 | 0 | N | |
| 11 12 | Date of Birth Sire National ID | 131 139 | 8 | N | yyyymmdd see Note 3 |
| 12 | Dam National ID | 148 | 9 9 | A A | see Note 3 |
| 14 | MGS National ID | 140 | 9 | Â | see Note 3 |
| 15 | MGD National ID | 166 | 9 | A | see Note 3 |
| | Sire International ID | 175 | 19 | A | Interbull format |
| 17 | Dam International ID | 194 | 19 | A | Interbull format |
| 18 | MGS International ID | 213 | 19 | А | Interbull format |
| 19 | MGD International ID | 232 | 19 | А | Interbull format |
| | International Proof Details | | | | |
| 20 | Type of Proof | 251 | 2 | N | Interbull codes – see note below |
| 21 | Includes Foreign Proof | 253 | 1 | A | "Y = information from another country is |
| 22 | Birth Date of First Australian | Daughte | er 254 | 8 | incorporated in national proof, N otherwise" N yyyymmdd |
| | Balanced Performance Ind | | | | |
| 23 | Balanced Performance Index | | 4 | N | |
| 24 | Reliability BPI | 266 | 2 | N | in deller unit veluee) |
| | Main Components of BPI (0 | ompon | ients e | xpressea | in dollar unit values) |
| 25 | Protein | 268 | 4 | Ν | |
| 26 | Milk | 272 | 4 | Ν | |
| 27 | Fat | 276 | 4 | N | |
| 28 | Milking Speed | 280 | 4 | N | |
| 29 30 | Temperament | 284 | 4 4 | N | |
| 30 31 | Residual Survival Somatic Cell Count | 288 292 | 4 4 | N N | |
| | Feed Efficiency | 292 | 4 | N | |
| 33 | Daughter Fertility | 300 | 4 | N | |
| 34 | Mammary System | 304 | 4 | Ň | |
| 35 | Overall Type | 308 | 4 | N | |
| 36 | Udder depth | 312 | 4 | Ν | |
| 37 | Pin Set | 316 | 4 | Ν | |
| • - | Components of Survival In | | | | |
| 38 | Survival | 320 | 4 | N | |
| 39 | Likability | 324 | 4 | N | |
| 40 | Overall Type | 328 | 4 | N | |
| 41 42 | Udder Depth Pin Set | 332 336 | 4 4 | N N | |
| 42 | Components of Liveweight | | 4 | IN | |
| | | | | | |



| Page | 29 |
|-------|----|
| · ~g• | |

| 43 | Stature | 340 | 4 | Ν | | | | |
|--|-------------------------------|-----------|-----|-----|--|--|--|--|
| 44 | Body depth | 344 | 4 | Ν | | | | |
| 45 | Chest width | 348 | 4 | Ν | | | | |
| | | | | | | | | |
| | ABVs for Production Traits | | | | | | | |
| 46 | Australian Selection Index | 352 | 4 | Ν | | | | |
| 47 | Protein | 356 | 4 | Ν | | | | |
| 48 | Protein Percentage | 360 | 5 | Ν | "Two decimal places (eg -0.12)" | | | |
| 49 | Milk | 365 | 5 | N | | | | |
| 50 | Fat | 370 | 4 | Ň | | | | |
| 51 | Fat Percentage | 374 | 5 | N | "Two decimal places (eg -0.12)" | | | |
| 51 | Amount of data for Production | | - | 1.1 | 1 wo decimal places (eg. 0.12) | | | |
| 52 | Reliability | 379 | 2 | Ν | | | | |
| 53 | Number of Daughters | 381 | 6 | N | | | | |
| | | 387 | 5 | | | | | |
| 54 | Number of Herds | | | N | | | | |
| | Number of Effective Daughters | | 6 | N | | | | |
| | Number in Herd - most Daught | | 4 | N | N | | | |
| 57 | Number in Herd - 2nd most Da | | | 4 | N A A A A A A A A A A A A A A A A A A A | | | |
| 58 | Records in Progress (RIP%) | 406 | 3 | Ν | % of daughters with < 4 test days in 1st | | | |
| | | | | | lactation | | | |
| International Daughter Numbers for Production Traits | | | | | | | | |
| | Number of Countries With Dau | | 409 | 2 | Ν | | | |
| 60 | Country With Most Daughters | | 3 | Α | see note 2 for list of country codes | | | |
| 61 | Number of Daughters in This C | | | 6 | Ν | | | |
| 62 | Country With Second Most Da | ughters 4 | 420 | 3 | A see note 2 for list of country codes | | | |
| 63 | Number of Daughters in This C | Country 4 | 423 | 6 | N | | | |
| 64 | Country With Third Most Daug | hters429 | 3 | Α | see note 2 for list of country codes | | | |
| 65 | Number of Daughters in This C | | | 6 | N | | | |
| | Country With Fourth Most Dau | | | 3 | A see note 2 for list of country codes | | | |
| 67 | Number of Daughters in This C | | | 6 | Ν | | | |
| 68 | Country With Fifth Most Daugh | | | Ă | see note 2 for list of country codes | | | |
| 69 | Number of Daughters in This C | | | 6 | N | | | |
| 00 | ABV Analysis Details for Pro | | | Ū | | | | |
| 70 | Breed of ABV Analysis | 456 | 1 | А | single character breed code - see Note 1 | | | |
| 71 | Date of ABV Analysis | 457 | 8 | Ň | yyyymmdd | | | |
| 72 | Source of ABV Analysis | 465 | 1 | A | A = ABV, I = ABV(i) | | | |
| | Proof publishable | 466 | 1 | Â | "P = publishable, U = unpublishable" | | | |
| | Foreign proof contribution | 467 | 1 | Â | "A = Aus only, I = International only, B = both" | | | |
| 74 | ABVs for Conformation Trait | | I | A | A – Aus only, I – International only, B – both | | | |
| 75 | | | 2 | NI | | | | |
| 75 | Overall Type | 468 | 3 | N | | | | |
| 76 | Overall Feet and Legs | 471 | 3 | N | | | | |
| 77 | Mammary System | 474 | 3 | N | | | | |
| 78 | Stature | 477 | 3 | N | | | | |
| 79 | Udder Texture | 480 | 3 | N | | | | |
| 80 | Bone Quality | 483 | 3 | N | | | | |
| 81 | Angularity | 486 | 3 | N | | | | |
| 82 | Muzzle Width | 489 | 3 | Ν | | | | |
| 83 | Body Length | 492 | 3 | Ν | | | | |
| 84 | Body Depth | 495 | 3 | Ν | | | | |
| 85 | Chest Width | 498 | 3 | Ν | | | | |
| 86 | Rump Length | 501 | 3 | Ν | | | | |
| 87 | Pin Width | 504 | 3 | Ν | | | | |
| 88 | Pin Set | 507 | 3 | Ν | | | | |
| 89 | Foot Angle | 510 | 3 | Ν | | | | |
| 90 | Rear Set of Leg | 513 | 3 | N | | | | |
| 91 | Rear Leg Rear View | 516 | 3 | N | | | | |
| 92 | Heel Depth | 519 | 3 | Ň | | | | |
| 93 | Udder Depth | 522 | 3 | Ň | | | | |
| 94 | Fore Attachment | 525 | 3 | Ň | | | | |
| 54 | | 0-0 | 5 | | | | | |



| 95 Rear Attachment Height | 528 | 3 | N |
|--------------------------------|-----------|-------------------|-----|
| 96 Rear Attachment Width | 531 | | Ν |
| | | 2 | |
| 97 Centre Ligament | 534 | 3 | N |
| 98 Teat Placement Fore | 537 | 3 | Ν |
| 99 Teat Length | 540 | 3 3 3 3 3 3 3 3 3 | Ν |
| 100 Loin Strength | 543 | З | Ν |
| | | 2 | N |
| 101 Front End Height | 546 | 3 | |
| 102 Teat Placement Rear | 549 | 3 | Ν |
| 103 Condition Score | 552 | 3 | Ν |
| Amount of data for old Co | nformatio | n Traits | |
| | 555 | 2 | Ν |
| 104 Reliability | | | |
| 105 Number of Daughters | 557 | 6 | Ν |
| 106 Number of Herds | 563 | 5 | N |
| 107 Number of Effective Daught | ers 568 | 6 | Ν |
| | | U | |
| Amount of data for Overal | | • | |
| 108 Reliability | 574 | 2 | Ν |
| 109 Number of Daughters | 576 | 6 | Ν |
| 110 Number of Herds | 582 | 5 | Ν |
| | | 6 | |
| 111 Number of Effective Daught | | | Ν |
| Amount of data for Mamm | ary Syste | m | |
| 112 Reliability | 593 | 2 | Ν |
| 113 Number of Daughters | 595 | 6 | Ν |
| | | | |
| 114 Number of Herds | 601 | 5 | N |
| 115 Number of Effective Daught | ers 606 | 6 | Ν |
| Amount of data for Stature | 9 | | |
| 116 Reliability | 612 | 2 | Ν |
| | | | |
| 117 Number of Daughters | 614 | 6 | N |
| 118 Number of Herds | 620 | 5 | Ν |
| 119 Number of Effective Daught | ers 625 | 6 | Ν |
| Amount of data for Udder | | | |
| | | 2 | Ν |
| 120 Reliability | 631 | 2 | |
| 121 Number of Daughters | 633 | 6 | Ν |
| 122 Number of Herds | 639 | 5 | Ν |
| 123 Number of Effective Daught | ers 644 | 6 | Ν |
| | | Ŭ | |
| Amount of data for Bone (| | • | |
| 124 Reliability | 650 | 2 | Ν |
| 125 Number of Daughters | 652 | 6 | Ν |
| 126 Number of Herds | 658 | 5 | Ν |
| 127 Number of Effective Daught | | 6 | Ň |
| | | 0 | IN |
| Amount of data for Angula | | | |
| 128 Reliability | 669 | 2 | Ν |
| 129 Number of Daughters | 671 | 6 | Ν |
| 130 Number of Herds | 677 | 5 | Ň |
| | | | |
| 131 Number of Effective Daught | | 6 | Ν |
| Amount of data for Muzzle | e Width | | |
| 132 Reliability | 688 | 2 | Ν |
| 133 Number of Daughters | 690 | 6 | Ň |
| | | | |
| 134 Number of Herds | 696 | 5 | N |
| 135 Number of Effective Daught | ers 701 | 6 | Ν |
| Amount of data for Body I | enath | | |
| 136 Reliability | 707 | 2 | Ν |
| | | | |
| 137 Number of Daughters | 709 | 6 | N |
| 138 Number of Herds | 715 | 5 | Ν |
| 139 Number of Effective Daught | ers 720 | 6 | Ν |
| Amount of data for Body | | - | - |
| | | C | NI |
| 140 Reliability | 726 | 2 | N |
| 141 Number of Daughters | 728 | 6 | Ν |
| 142 Number of Herds | 734 | 5 | Ν |
| 143 Number of Effective Daught | | 6 | Ν |
| | | <u> </u> | . • |



| Amount of data for Chest W | idth | | |
|--|---|--|---------------------------------------|
| 144 Reliability | 745 | 2 | Ν |
| 145 Number of Daughters | 747 | 6 | N |
| 146 Number of Herds | 753 | 5 | N |
| | | 6 | N |
| 147 Number of Effective Daughters | | 0 | IN |
| Amount of data for Rump Le | | • | |
| 148 Reliability | 764 | 2 | Ν |
| 149 Number of Daughters | 766 | 6 | Ν |
| 150 Number of Herds | 772 | 5 | Ν |
| 151 Number of Effective Daughters | s 777 | 6 | Ν |
| Amount of data for Pin Widt | | | |
| 152 Reliability | 783 | 2 | Ν |
| 153 Number of Daughters | 785 | 6 | Ň |
| 154 Number of Herds | 791 | 5 | N |
| | | 6 | |
| 155 Number of Effective Daughters | s 796 | 0 | Ν |
| Amount of data for Pin Set | | • | |
| 156 Reliability | 802 | 2 | N |
| 157 Number of Daughters | 804 | 6 | Ν |
| 158 Number of Herds | 810 | 5 | Ν |
| 159 Number of Effective Daughters | s 815 | 6 | Ν |
| Amount of data for Foot Ang | | | |
| 160 Reliability | 821 | 2 | Ν |
| 161 Number of Daughters | 823 | 6 | N |
| 162 Number of Herds | 829 | 5 | N |
| | | | |
| 163 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Rear Set | | - | |
| 164 Reliability | 840 | 2 | Ν |
| 165 Number of Daughters | 842 | 6 | Ν |
| 166 Number of Herds | 848 | 5 | Ν |
| 167 Number of Effective Daughters | s 853 | 6 | Ν |
| Amount of data for Rear Leg | | iow | |
| | INCAI V | iew | |
| | | | N |
| 168 Reliability | 859 | 2 | N |
| 168 Reliability 169 Number of Daughters | 859 861 | 2 6 | Ν |
| 168 Reliability 169 Number of Daughters 170 Number of Herds | 859 861 867 | 2 6 5 | N N |
| 168 Reliability169 Number of Daughters170 Number of Herds171 Number of Effective Daughters | 859 861 867 s 872 | 2 6 | Ν |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder Definition | 859 861 867 s 872 epth | 2 6 5 6 | N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability | 859 861 867 s 872 epth 878 | 2 6 5 6 2 | N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters | 859 861 867 872 epth 878 880 | 2 6 5 6 2 6 | N N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability | 859 861 867 s 872 epth 878 | 2 6 5 6 2 | N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds | 859 861 867 872 9pth 878 880 886 | 2 6 5 6 2 6 | N N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters | 859 861 867 872 epth 878 880 886 886 886 8891 | 2 6 5 6 5 6 5 6 | |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta | 859 861 867 8 872 epth 878 880 886 886 8 891 achmen | 2 6 5 6 2 6 5 6 t | N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability | 859 861 867 872 epth 878 880 886 881 achmen 897 | 2 6 5 6 2 6 5 6 t 2 | |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters | 859 861 867 872 epth 878 880 886 886 881 achmen 897 899 | 2 6 5 6 2 6 5 6 t 2 6 | |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds | 859 861 867 872 epth 878 880 886 886 8891 achmen 897 899 905 | 2 6 5 6 2 6 5 6 t 2 6 5 5 | |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters | 859 861 867 872 epth 878 880 886 886 8891 achmen 897 899 905 8 910 | 2 6 5 6 2 6 5 6 5 6 5 6 | |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta | 859 861 867 872 epth 878 880 886 8891 achmen 897 899 905 5 910 achmen | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height | Z Z Z Z Z Z Z Z Z Z Z |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta 180 Reliability | 859 861 867 872 epth 878 880 886 881 achmen 897 899 905 905 905 910 achmen 916 | 2 6 5 6 5 6 t 2 6 5 6 t Height 2 | N N N N N N N N N N N N N N N N N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 179 Number of Daughters 180 Reliability 181 Number of Daughters | 859 861 867 872 epth 878 880 886 8891 achmen 897 899 905 8910 achmen 916 918 | 2 6 5 6 5 6 t 2 6 5 6 t Height 2 6 | ZZZ ZZZZ ZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta 180 Reliability | 859 861 867 872 epth 878 880 886 881 achmen 897 899 905 905 905 910 achmen 916 | 2 6 5 6 5 6 t 2 6 5 6 t Height 2 | N N N N N N N N N N N N N N N N N N N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds | 859 861 867 872 epth 878 880 886 8891 achmen 897 899 905 5 910 achmen 916 918 924 | 2 6 5 6 5 6 t 2 6 5 6 t Height 2 6 | ZZZ ZZZZ ZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 179 Number of Daughters 180 Reliability 181 Number of Daughters | 859 861 867 872 epth 878 880 886 889 905 905 905 910 achmen 916 918 924 924 929 | 2 6 5 6 2 6 5 6 t Height 2 6 5 6 | ZZZ ZZZZ ZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 180 Reliability 181 Number of Herds 183 Number of Effective Daughters 183 Number of Effective Daughters Amount of data for Rear Atta | 859 861 867 872 epth 878 880 886 8891 achmen 905 905 905 910 achmen 916 918 924 929 achmen | 2 6 5 6 2 6 5 6 t Height 2 6 5 6 t Width | ZZZ ZZZZ ZZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta 180 Reliability 183 Number of Effective Daughters 183 Number of Effective Daughters 184 Reliability | 859 861 867 872 epth 878 880 886 8891 achmen 905 905 905 910 achmen 916 918 924 929 achmen 935 | 2 6 5 6 2 6 5 6 t Height 2 6 5 6 t Width 2 | N |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Baughters 178 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters | 859 861 867 872 epth 878 880 886 891 achmen 915 905 905 910 achmen 916 918 924 924 929 achmen 935 937 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t Width 2 6 | ZZZ ZZZZ ZZZZ ZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder Daughters 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Daughters 178 Number of Effective Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds | 859 861 867 872 epth 878 880 886 891 achmen 915 905 910 achmen 916 918 924 929 achmen 935 937 943 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t Width 2 6 5 5 | ZZZ ZZZZ ZZZZ ZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Herds 179 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds 187 Number of Effective Daughters | 859 861 867 872 epth 878 880 886 891 achmen 905 905 905 910 achmen 916 918 924 929 achmen 935 937 943 943 943 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t Width 2 6 5 6 | ZZZ ZZZZ ZZZZ ZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Effective Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds 187 Number of Effective Daughters 186 Number of Herds 187 Number of Effective Daughters 186 Number of Herds | 859 861 867 872 epth 878 880 886 889 905 905 905 910 achmen 916 918 924 929 achmen 935 929 achmen 935 937 943 943 943 948 igamen | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t Width 2 6 5 6 t | ZZZ ZZZZ ZZZZ ZZZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds 187 Number of Effective Daughters 186 Number of Herds 187 Number of Effective Daughters 188 Reliability | 859 861 867 872 epth 878 880 886 8891 achmen 905 897 905 905 910 achmen 916 918 924 929 achmen 935 937 943 8948 igamen 954 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t 2 6 5 6 t 2 6 5 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 | ZZZ ZZZZ ZZZZ ZZZZ Z |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds 187 Number of Effective Daughters 188 Reliability 189 Number of Daughters | 859 861 867 872 epth 878 880 886 891 achmen 915 905 905 905 910 achmen 916 918 924 929 achmen 935 937 935 937 943 954 954 956 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t Width 2 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 | ZZZ ZZZZ ZZZZ ZZZZ ZZ |
| 168 Reliability 169 Number of Daughters 170 Number of Herds 171 Number of Effective Daughters Amount of data for Udder De 172 Reliability 173 Number of Daughters 174 Number of Herds 175 Number of Effective Daughters Amount of data for Fore Atta 176 Reliability 177 Number of Daughters 178 Number of Herds 179 Number of Effective Daughters 178 Number of Herds 179 Number of Effective Daughters Amount of data for Rear Atta 180 Reliability 181 Number of Daughters 182 Number of Herds 183 Number of Effective Daughters 184 Reliability 185 Number of Daughters 186 Number of Herds 187 Number of Effective Daughters 186 Number of Herds 187 Number of Effective Daughters 188 Reliability | 859 861 867 872 epth 878 880 886 8891 achmen 905 897 905 905 910 achmen 916 918 924 929 achmen 935 937 943 8948 igamen 954 | 2 6 5 6 2 6 5 6 t 2 6 5 6 t Height 2 6 5 6 t 2 6 5 6 t 2 6 5 6 5 6 t 2 6 5 6 t 2 6 5 6 t 2 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 | ZZZ ZZZZ ZZZZ ZZZZ Z |



| Pag | e | 32 |
|------|---|----|
| I UU | | 02 |

| 191 Number of Effective Da | | 6 | Ν | |
|---|----------------|--------|-----|--|
| Amount of data for To | | | NI | |
| 192 Reliability | 973 | 2 | N | |
| 193 Number of Daughters | 975 | 6 | N | |
| 194 Number of Herds | 981 | 5 | N | |
| 195 Number of Effective Da | | 6 | Ν | |
| Amount of data for Te | | - | | |
| 196 Reliability | 992 | 2 | N | |
| 197 Number of Daughters | 994 | 6 | Ν | |
| 198 Number of Herds | 1000 | 5 | Ν | |
| 199 Number of Effective Da | aughters1005 | 6 | Ν | |
| Amount of data for Le | oin Strength | | | |
| 200 Reliability | 1011 | 2 | Ν | |
| 201 Number of Daughters | 1013 | 6 | Ν | |
| 202 Number of Herds | 1019 | 5 | Ν | |
| 203 Number of Effective Da | aughters1024 | 6 | Ν | |
| Amount of data for Fi | | | | |
| 204 Reliability | 1030 | 2 | Ν | |
| 205 Number of Daughters | 1032 | 6 | Ν | |
| 206 Number of Herds | 1038 | 5 | Ν | |
| 207 Number of Effective Da | | 6 | Ň | |
| Amount of data for Te | | Rear | | |
| 208 Reliability | 1049 | 2 | Ν | |
| 209 Number of Daughters | 1051 | 6 | Ň | |
| 210 Number of Herds | 1057 | 5 | Ň | |
| 211 Number of Effective Da | | 6 | Ň | |
| Amount of data for C | | 0 | 1.1 | |
| 212 Reliability | 1068 | 2 | Ν | |
| 213 Number of Daughters | 1000 | 6 | N | |
| 214 Number of Herds | 1076 | 5 | N | |
| | | 6 | N | |
| 215 Number of Effective Da | | - | | a Traita |
| International Daughte | | | | N |
| 216 Number of Countries V | | - | 2 | |
| 217 Country With Most Day | | 3 | A | see note 2 for list of country codes |
| 218 Number of Daughters i | | | 6 | N |
| 219 Country With Second | | | 3 | A see note 2 for list of country codes |
| 220 Number of Daughters i | | | 6 | N |
| 221 Country With Third Mo | | | A | see note 2 for list of country codes |
| 222 Number of Daughters | | | 6 | N |
| 223 Country With Fourth M | | | 3 | A see note 2 for list of country codes |
| 224 Number of Daughters i | | | 6 | N |
| 225 Country With Fifth Mos | | | A | see note 2 for list of country codes |
| 226 Number of Daughters i | | | 6 | Ν |
| ABV Analysis Details | for Conformati | on Tra | its | |
| 227 Breed of ABV Analysis | | 1 | A | single character breed code - see Note 1 |
| 228 Date of ABV Analysis | 1135 | 8 | Ν | yyyymmdd |
| 229 Source of ABV Analysi | s 1143 | 1 | Α | A = ABV, I = ABV(i) |
| 230 Proof publishable | 1144 | 1 | А | "P = publishable, U = unpublishable" |
| 231 Foreign proof contribut | ion 1145 | 1 | А | "A = Aus only, I = International only, B = both" |
| ABVs for Workability | | | | |
| 232 ABV Milking Speed | 1146 | 3 | Ν | |
| 233 ABV Temperament | 1149 | 3 | Ν | |
| 234 ABV Likability | 1152 | 3 | Ň | |
| Amount of data for W | | - | | |
| 235 Reliability Workability 1 | | 2 | Ν | |
| 236 Number of Daughters | 1157 | 6 | N | |
| Loo Hamber of Daughters | 1163 | 5 | N | |
| 237 Number of Herds | 1105 | | | |
| 237 Number of Herds 238 Number of Effective Da | | 6 | N | |



| 239 Number of Countries With Daughters 1174 | 2 | Ν |
|--|-----|--|
| 240 Country With Most Daughters 1176 3 | А | see note 2 for list of country codes |
| 241 Number of Daughters in This Country 1179 | 6 | N |
| 242 Country With Second Most Daughters1185 | 3 | A see note 2 for list of country codes |
| 243 Number of Daughters in This Country 1188 | 6 | N |
| 244 Country With Third Most Daughters1194 3 | Ă | see note 2 for list of country codes |
| 245 Number of Daughters in This Country 1197 | 6 | N |
| 246 Country With Fourth Most Daughters 1203 | 3 | A see note 2 for list of country codes |
| 247 Number of Daughters in This Country 1206 | 6 | N See note 2 for list of country codes |
| 248 Country With Fifth Most Daughters 1212 3 | Ă | see note 2 for list of country codes |
| 249 Number of Daughters in This Country 1215 | 6 | N |
| ABV Analysis Details for Workability Traits | 0 | 1 |
| 250 Breed of ABV Analysis 1221 1 | А | single character breed code - see Note 1 |
| 251 Date of ABV Analysis 1222 8 | Ň | |
| · · · · · · · · · · · · · · · · · · · | - | yyyymmdd "A - ABX/ I - ABX/(i)" |
| 252 Source of ABV Analysis 1230 1 | A | "A = ABV, I = ABV(i)" |
| 253 Proof publishable 1231 1 | A | "P = publishable, U = unpublishable" "A = Aug and L = International and B = beth" |
| 254 Foreign proof contribution 1232 1 | A | "A = Aus only, I = International only, B = both" |
| ABV and Reliability for Survival | N I | |
| 255 Survival Solution12333256 Reliability Survival Solution12362 | N | |
| 256 Reliability Survival Solution 1236 2 | N | |
| 257 ABV Survival 1238 3 | N | |
| 258 Reliability Survival12412 | N | |
| 259 Number of Daughters 1243 6 | N | |
| 260 Number of Herds 1249 5 | Ν | |
| 261 Number of Effective Daughters1254 6 | Ν | |
| International Daughter Numbers for Survival | | |
| 262 Number of Countries With Daughters 1260 | 2 | Ν |
| 263 Country With Most Daughters 1262 3 | А | see note 2 for list of country codes |
| 264 Number of Daughters in This Country 1265 | 6 | Ν |
| 265 Country With Second Most Daughters1271 | 3 | A see note 2 for list of country codes |
| 266 Number of Daughters in This Country 1274 | 6 | Ν |
| 267 Country With Third Most Daughters 1280 3 | А | see note 2 for list of country codes |
| 268 Number of Daughters in This Country 1283 | 6 | N |
| 269 Country With Fourth Most Daughters 1289 | 3 | A see note 2 for list of country codes |
| 270 Number of Daughters in This Country 1292 | 6 | N |
| 271 Country With Fifth Most Daughters1298 3 | А | see note 2 for list of country codes |
| 272 Number of Daughters in This Country 1301 | 6 | N |
| ABV Analysis Details for Survival | | |
| 273 Breed of ABV Analysis 1307 1 | А | single character breed code - see Note 1 |
| 274 Date of ABV Analysis 1308 8 | Ν | yyyymmdd |
| 275 Source of ABV Analysis 1316 1 | A | "A = ABV, I = ABV(i)" |
| 276 Proof publishable 1317 1 | A | "P = publishable, U = unpublishable" |
| 277 Foreign proof contribution 1318 1 | A | " $A = Aus only, I = International only, B = both"$ |
| ABV for Calving Ease | | |
| 278 ABV Calving Ease 1319 3 | Ν | |
| Amount of data for Calving Ease | | |
| 279 Reliability Calving Ease 1322 2 | Ν | |
| 280 Number of Calvings 1324 6 | N | |
| 281 Number of Herds 1330 5 | | |
| | N | |
| | N | |
| International Daughter Numbers for Calving | | N |
| 283 Number of Countries With Daughters 1341 | 2 | N |
| 284 Country With Most Daughters 1343 3 | A | see note 2 for list of country codes |
| 285 Number of Daughters in This Country 1346 | 6 | N |
| 286 Country With Second Most Daughters1352 | 3 | A see note 2 for list of country codes |
| 287 Number of Daughters in This Country 1355 | 6 | N |
| 288 Country With Third Most Daughters1361 3 | A | see note 2 for list of country codes |
| 289 Number of Daughters in This Country 1364 | 6 | N |
| 290 Country With Fourth Most Daughters 1370 | 3 | A see note 2 for list of country codes |
| | | |



| 291 Number of Daughters in This Country 1373 | 6 | Ν |
|--|-----------|--|
| 292 Country With Fifth Most Daughters1379 3 | Α | see note 2 for list of country codes |
| 293 Number of Daughters in This Country 1382 | 6 | N |
| ABV Analysis Details for Calving Ease | | |
| 294 Breed of ABV Analysis 1388 1 | А | single character breed code - see Note 1 |
| 295 Date of ABV Analysis 1389 8 | Ň | yyyymmdd |
| 296 Source of ABV Analysis 1397 1 | A | "A = ABV, I = ABV(i)" |
| | | |
| 297 Proof publishable 1398 1 | A | "P = publishable, U = unpublishable" "A = Aug and L = laternational and P = hath" |
| 298 Foreign proof contribution 1399 1 | A | "A = Aus only, I = International only, B = both" |
| ABV for Somatic Cell Count | | |
| 299 ABV Somatic Cell Count 1400 4 | N | |
| Amount of data for Somatic Cell Count | | |
| 300 Reliability Somatic Cell Count 1404 2 | N | |
| 301 Number of Daughters 1406 6 | N | |
| 302 Number of Herds 1412 5 | Ν | |
| 303 Number of Effective Daughters1417 6 | Ν | |
| International Daughter Numbers for Soma | | Count |
| 304 Number of Countries With Daughters 1423 | 2 | N |
| 305 Country With Most Daughters 1425 3 | Ā | see note 2 for list of country codes |
| 306 Number of Daughters in This Country 1428 | 6 | N |
| | | |
| 307 Country With Second Most Daughters1434 | 3 | A see note 2 for list of country codes |
| 308 Number of Daughters in This Country 1437 | 6 | Ν |
| 309 Country With Third Most Daughters1443 3 | Α | see note 2 for list of country codes |
| 310 Number of Daughters in This Country 1446 | 6 | Ν |
| 311 Country With Fourth Most Daughters 1452 | 3 | A see note 2 for list of country codes |
| 312 Number of Daughters in This Country 1455 | 6 | Ν |
| 313 Country With Fifth Most Daughters1461 3 | А | see note 2 for list of country codes |
| 314 Number of Daughters in This Country 1464 | 6 | N |
| ABV Analysis Details for Somatic Cell Cou | - | |
| 315 Breed of ABV Analysis 1470 1 | A | single character breed code - see Note 1 |
| 316 Date of ABV Analysis 1471 8 | Ň | yyyymmdd |
| | - | "A = ABV, I = ABV(i)" |
| | A | |
| 318 Proof publishable 1480 1 | A | "P = publishable, U = unpublishable" "A = Aug and L = laternational and P = hath" |
| 319 Foreign proof contribution 1481 1 | A | "A = Aus only, I = International only, B = both" |
| ABV and Reliability for Liveweight | | |
| 320 ABV Liveweight 1482 4 | N | |
| 321 Reliability Liveweight 1486 2 | Ν | |
| ABV Analysis Details for Liveweight | | |
| 322 Breed of ABV Analysis 1488 1 | A | single character breed code - see Note 1 |
| 323 Date of ABV Analysis 1489 8 | Ν | yyyymmdd |
| 324 Source of ABV Analysis 1497 1 | Α | "A = ABV, I = ABV(i)" |
| 325 Proof publishable 1498 1 | А | "P = publishable, \dot{U} = unpublishable", |
| 326 Foreign proof contribution 1499 1 | А | "A = Aus only, I = International only, B = both" |
| ABV for Cow Fertility | | |
| 327 ABV Cow Fertility 1500 4 | Ν | Provisional |
| Amount of data for Cow Fertility | IN IN | TTOVISIONAL |
| | N | Provisional |
| 328 Reliability Cow Fertility 1504 2 | N | FIOVISIONAL |
| 329 Number of Daughters 1506 6 | N | |
| 330 Number of Herds15125 | N | |
| 331 Number of Effective Daughters1517 6 | N | |
| International Daughter Numbers for Cow F | -ertility | |
| 332 Number of Countries With Daughters 1523 | 2 | Ν |
| 333 Country With Most Daughters 1525 3 | А | see note 2 for list of country codes |
| 334 Number of Daughters in This Country 1528 | 6 | N |
| 335 Country With Second Most Daughters1534 | 3 | A see note 2 for list of country codes |
| 336 Number of Daughters in This Country 1537 | 6 | Ν |
| 337 Country With Third Most Daughters 1543 3 | Ă | see note 2 for list of country codes |
| 338 Number of Daughters in This Country 1546 | 6 | N |
| 339 Country With Fourth Most Daughters 1552 | 3 | A see note 2 for list of country codes |
| See Country Warr outer most Daughters 1002 | 0 | |
| | | |



| 340 | Number of Daughters in This (| Country 15 | 55 | 6 | Ν |
|-------|---------------------------------|------------------|-------------|------------|-----|
| 341 | Country With Fifth Most Daugh | hters1561 | 3 | А | see |
| | Number of Daughters in This (| | 64 | 6 | Ν |
| | ABV Analysis Details for Co | | | | |
| 343 | Breed of ABV Analysis | 1570 | 1 | А | sin |
| | Date of ABV Analysis | 1571 | 8 | Ν | ууу |
| | Source of ABV Analysis | 1579 | 1 | А | ΪÁ |
| | Proof publishable | 1580 | 1 | А | "P |
| | Foreign proof contribution | 1581 | 1 | A | "A |
| • · · | Genomic Evaluation | | | | |
| 348 | Genomics Evaluation | 1582 | 1 | А | g= |
| • • • | Health Weighted Index (HWI | | | | 9. |
| 349 | Health Weighted Index | , 1583 | 4 | Ν | |
| | Reliability HWI | 1587 | 2 | N | |
| 000 | Sustainability Index (SI) | 1007 | 2 | | |
| 351 | Sustainability Index | 1589 | 4 | Ν | |
| | Reliability SI | 1593 | 2 | N | |
| 002 | ABVs for New Traits | 1000 | 2 | IN I | |
| 353 | ABV Residual Survival | 1595 | 3 | Ν | |
| | | 1598 | 3 2 | N | |
| | Reliability Residual Survival | | 3 2 5 | | |
| | ABV Feed Efficiency | 1600 | 5 2 | N | |
| 300 | Reliability Feed Efficiency | 1605 | Ζ | Ν | |
| 057 | ABV for Rump | 4007 | ~ | N 1 | |
| 357 | ABV Rump | 1607 | 3 | Ν | |
| 050 | Amount of data for Rump | 1010 | 0 | | |
| | Reliability Rump | 1610 | 2 | N | |
| | Number of Daughters | 1612 | 6 | N | |
| | Number of Herds | 1618 | 5 | N | |
| 361 | Number of Effective Daughters | s1623 | 6 | Ν | |
| | ABV for Dairy Strength | | | | |
| 362 | ABV Dairy Strength | 1629 | 3 | Ν | |
| | Amount of data for Dairy Str | | | | |
| 363 | Reliability Dairy Strength | 1632 | 2 | Ν | |
| | Number of Daughters | 1634 | 6 | Ν | |
| | Number of Herds | 1640 | 5 | Ν | |
| 366 | Number of Effective Daughters | s1645 | 6 | Ν | |
| | ABV for Heat Tolerance | | | | |
| 367 | ABV Heat Tolerance | 1651 | 3 | Ν | |
| | Amount of data for Heat Tole | erance | | | |
| | Reliability Heat Tolerance | 1654 | 2 | Ν | |
| 369 | Number of Daughters | 1656 | 6 | Ν | |
| 370 | Number of Herds | 1662 | 5 | Ν | |
| 371 | Number of Effective Daughters | s1667 | 6 | Ν | |
| | ABV for Gestation Length | | | | |
| 372 | ABV Gestation Length | 1673 | 3 | Ν | |
| | Amount of data for Gestation | n Length | | | |
| 373 | Reliability Gestation Length | 1676 Č | 2 | Ν | |
| | Number of Calvings | 1678 | 6 | Ν | |
| | Number of Herds | 1684 | 5 | Ν | |
| | Number of Effective Calvings | | 6 | N | |
| 0.0 | International Daughter Num | | - | | ath |
| 377 | Number of Countries With Dat | | | 2 | N |
| | Country With Most Daughters | | 3 | Ā | see |
| | Number of Daughters in This (| | - | 6 | N |
| | Country With Second Most Da | | | 3 | A |
| | Number of Daughters in This (| | | 6 | N |
| | Country With Third Most Daug | | | A | see |
| | Number of Daughters in This (| | | 6 | N |
| | Country With Fourth Most Dau | | | 3 | A |
| 504 | Country which i our in wost Dat | | <u> </u> | 5 | л |
| | | | | | |

- Ν
 - see note 2 for list of country codes Ν
- - single character breed code see Note 1
- yyyymmdd "A = ABV, I = ABV(i)"
- "P = publishable, U = unpublishable"
- "A = Aus only, I = International only, B = both"
- g=genomics included, blank otherwise

А see note 2 for list of country codes



| 385 Number of Daughters in This Country1727 386 Country With Fifth Most Daughters1733 3 | 6 A | N see note 2 for list of country codes |
|--|--------|--|
| 387 Number of Daughters in This Country 1736 | 6 | N |
| ABV Analysis Details for Gestation Length | | |
| 388 Breed of ABV Analysis 1742 1 | Α | single character breed code - see Note 1 |
| 389 Date of ABV Analysis 1743 8 | Ν | yyyymmdd |
| 390 Source of ABV Analysis 1751 1 | А | A = ABV, I = ABV(i) |
| 391 Proof publishable 1752 1 | Α | "P = publishable, U = unpublishable" |
| 392 Foreign proof contribution 1753 1 | Α | "A = Aus only, I = International only, B = both" |
| ABV for Mastitis Resistance | | |
| 393 ABV Mastitis Resistance 1754 3 | Ν | |
| Amount of data for Mastitis Resistance | | |
| 394 Reliability Mastitis Resistance 1757 2 | Ν | |
| 395 Number of Daughters 1759 6 | Ν | |
| 396 Number of Herds17655 | Ν | |
| 397 Number of Effective Daughters1770 6 | Ν | |
| International Daughter Numbers for Mastiti | | |
| 398 Number of Countries With Daughters 1776 | 2 | Ν |
| 399 Country With Most Daughters 1778 3 | А | see note 2 for list of country codes |
| 400 Number of Daughters in This Country 1781 | 6 | Ν |
| 401 Country With Second Most Daughters1787 | 3 | A see note 2 for list of country codes |
| 402 Number of Daughters in This Country 1790 | 6 | Ν |
| 403 Country With Third Most Daughters1796 3 | А | see note 2 for list of country codes |
| 404 Number of Daughters in This Country 1799 | 6 | Ν |
| 405 Country With Fourth Most Daughters 1805 | 3 | A see note 2 for list of country codes |
| 406 Number of Daughters in This Country 1808 | 6 | Ν |
| 407 Country With Fifth Most Daughters1814 3 | А | see note 2 for list of country codes |
| 408 Number of Daughters in This Country 1817 | 6 | Ν |
| ABV Analysis Details for Mastitis Resistance | | |
| 409 Breed of ABV Analysis 1823 1 | Α | single character breed code-see Note 1 |
| 410 Date of ABV Analysis 1824 8 | Ν | yyyymmdd |
| 411 Source of ABV Analysis 1832 1 | Α | A = ABV, I = ABV(i) |
| 412 Proof publishable 1833 1 | Α | "P = publishable, U = unpublishable" |
| 413 Foreign proof contribution 1834 1 | Α | "A = Aus only, I = International only, B = both" |
| | | |

RECORD LENGTH = 1834 bytes

Type of Proof

- 00 unknown
- 11 based on first crop sampling daughters
- 12 based on first and second crop daughters
- 21 based on imported semen of proven bull (second crop daughters only)

Assumed sort order with all fields in ascending order: Fields 1, 2, 3



Data Format 261 V3

Cow ABVs for All Traits (extended file)*

| Field No. | Field Name | | | Internal U Numeric /Alpha | lse Only) Comments |
|--------------|--|------------|---------|---------------------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 261 |
| 2 | Record Version Number | 4 | 1 | A | Value = 3 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See DIF Document Note 8 |
| | Cow Identity | 4.0 | • | | |
| 4 | National ID | 12 | 9 | A | See DIF Document Note 3 |
| 5 | Within-Herd Cow ID Herdbook ID | 21 | 6 | Ν | |
| 6 | Country Code | 27 | 3 | А | See DIF Document Note 2 |
| 7 | Herdbook Number | 30 | 12 | A | See DIF Document Note 2 |
| 8 | International ID | 42 | 19 | А | Interbull format – see DIF Document Note 10 |
| 9 | Name | 61 | 40 | А | |
| 10 | Genetic Codes | 101 | 15 | А | Up to 8 three-character codes (see note 10 |
| 4.4 | Cow Details | 110 | 4 | ٨ | |
| 11 12 | Breed of cow Date of Birth | 116 120 | 4 8 | A N | See DIF Document Note 1 |
| 12 | Date of Latest Calving | 120 | | N | yyyymmdd yyyymmdd |
| 14 | Number of Lactations in AB | | | 136 | 2 N |
| 15 | Crossbreed | 138 | | A | 'X' if crossbreed, otherwise space |
| 16 | DPC Code | 139 | 1 | А | See DIF Document Note 4 |
| | Pedigree Details | | _ | _ | |
| 17 | Sire National ID | 140 | 9 | A | see DIF Document Note 3 |
| 18 | Dam National ID | 149 | | A | see DIF Document Note 3 |
| 19 20 | MGS National ID MGD National ID | 158 167 | 9 9 | A A | see DIF Document Note 3 see DIF Document Note 3 |
| 20 21 | Sire International ID | 176 | 9 19 | A | Interbull format – see DIF Document Note 10 |
| 22 | Dam International ID | 195 | 19 | A | Interbull format – see DIF Document Note 10 |
| 23 | MGS International ID | 214 | 19 | A | Interbull format – see DIF Document Note 10 |
| 24 | MGD International ID | 233 | 19 | А | Interbull format – see DIF Document Note 10 |
| 25 | Sire Nasis Bull ID | 252 | 12 | A | |
| 26 | MGS Nasis Bull ID | 264 | 12 | A | |
| 27 | Rank within Australia | 076 | e | NI | |
| 27 28 | Rank within-breed on BPI Rank within-breed on ASI | 276 282 | | N N | |
| 20 | Balanced Performance In | | | | |
| 29 | Balanced Performance Inde | | | Ν | |
| 30 | Reliability BPI | 292 | | Ν | |
| | ABVs for Production Trait | | | | |
| 31 | Australian Selection Index | 294 | | N | |
| 32 | Protein Brotein Bereentege | 298 | | N | Two desimal places (eq. 0.12) |
| 33 34 | Protein Percentage Milk | 302 307 | | N N | Two decimal places (eg, -0.12) |
| 35 | Fat | 312 | | N | |
| 36 | Fat Percentage | 316 | | Ň | Two decimal places (eg, -0.12) |
| | ABV Analysis Details for I | | | | |
| 37 | Reliability | 321 | 2 | Ν | |
| 38 | Breed of ABV Analysis | 323 | | A | single char breed code - see DIF Document Note 1 |
| 39 | Date of ABV Analysis | 324 | | N | yyyymmdd |
| 40 41 | Source of ABV Analysis | 332 333 | | A | A = ABV, I = ABV(i) B = publishable, II = uppublishable |
| 41 | Proof publishable Foreign proof contribution | 334 | | A A | P = publishable, U = unpublishable A = Aus only, I = International only, B = both |
| 16 | ABVs for Conformation T | | • | <i>/</i> \ | |
| 43 | Overall Type | 335 | 3 | Ν | |
| 44 | Mammary System | 338 | 3 | Ν | |
| | | | | | |



| Page | 38 |
|-------|----|
| i aye | 00 |

DataGene Solutions for Herd Development

| 45 | Overall Feet and Legs | 341 | 3 | Ν | |
|-----|--------------------------------|--------|----------|---------------|--|
| 46 | Stature | 344 | 3 | N | |
| | | | | | |
| 47 | Udder Texture | 347 | 3 | Ν | |
| 48 | Bone Quality | 350 | 3 | Ν | |
| 49 | Angularity | 353 | 3 | Ν | |
| 50 | Muzzle Width | 356 | 3 | N | |
| | | | | | |
| 51 | Body Length | 359 | 3 | Ν | |
| 52 | Body Depth | 362 | 3 | Ν | |
| 53 | Loin Strength | 365 | 3 | Ν | |
| 54 | Chest Width | 368 | 3 | N | |
| | | | | | |
| 55 | Rump Length | 371 | 3 | Ν | |
| 56 | Pin Width | 374 | 3 | Ν | |
| 57 | Pin Set | 377 | 3 | Ν | |
| 58 | Foot Angle | 380 | 3 | N | |
| | | | | | |
| 59 | Heel Depth | 383 | 3 | N | |
| 60 | Rear Set of Leg | 386 | 3 | Ν | |
| 61 | Rear Leg Rear View | 389 | 3 | Ν | |
| 62 | Udder Depth | 392 | 3 | Ν | |
| 63 | Fore Attachment | | 3 | N | |
| | | 395 | | | |
| 64 | Rear Attachment Height | 398 | 3 | Ν | |
| 65 | Rear Attachment Width | 401 | 3 | Ν | |
| 66 | Centre Ligament | 404 | 3 | Ν | |
| 67 | Teat Placement Fore | 407 | 3 | N | |
| | | | | | |
| 68 | Teat Placement Rear | 410 | 3 | Ν | |
| 69 | Teat Length | 413 | 3 | Ν | |
| 70 | Condition Score | 416 | 3 | Ν | |
| | ABV Analysis Details for Co | nform | nation 1 | Fraits | |
| 71 | | 419 | 2 | N | |
| | Reliability | | | | |
| 72 | Breed of ABV Analysis | 421 | 1 | A | single char breed code - see DIF Document Note 1 |
| 73 | Date of ABV Analysis | 422 | 8 | Ν | yyyymmdd |
| 74 | Source of ABV Analysis | 430 | 1 | А | A = ABV, I = ABV(i) |
| 75 | Proof publishable | 431 | 1 | A | P = publishable, U = unpublishable |
| | | | | | |
| 76 | Foreign proof contribution | 432 | 1 | А | A = Aus only, I = International only, B = both |
| | ABVs for Workability Traits | | | | |
| 77 | ABV Milking Speed | 433 | 3 | Ν | |
| 78 | ABV Temperament | 436 | 3 | Ν | |
| 79 | ABV Likability | 439 | 3 | Ň | |
| 13 | | | | | |
| ~~ | ABV Analysis Details for Wo | | | | |
| 80 | Reliability Workability Traits | 442 | | Ν | |
| 81 | Breed of ABV Analysis | 444 | 1 | А | single char breed code - see DIF Document Note 1 |
| 82 | Date of ABV Analysis | 445 | 8 | Ν | yyyymmdd |
| 83 | Source of ABV Analysis | 453 | | A | A = ABV, I = ABV(i) |
| | | | | | |
| 84 | Proof publishable | 454 | | A | P = publishable, U = unpublishable |
| 85 | Foreign proof contribution | 455 | 1 | А | A = Aus only, I = International only, B = both |
| | Survival Solution | | | | |
| 86 | Survival Solution | 456 | 3 | Ν | |
| 87 | | 459 | | N | |
| 07 | Reliability Survival Solution | 459 | Ζ | IN | |
| | ABV for Survival | | | | |
| 88 | ABV Survival | 461 | 3 | Ν | |
| | ABV Analysis Details for Su | rvival | | | |
| 89 | Reliability Survival | 464 | | Ν | |
| | | | | | |
| 90 | Breed of ABV Analysis | 466 | 1 | A | single char breed code - see DIF Document Note 1 |
| 91 | Date of ABV Analysis | 467 | 8 | Ν | yyyymmdd |
| 92 | Source of ABV Analysis | 475 | 1 | А | A = ABV, I = ABV(i) |
| 93 | Proof publishable | 476 | | A | P = publishable, U = unpublishable |
| 94 | | | 1 | A | |
| 34 | Foreign proof contribution | 477 | I | А | A = Aus only, I = International only, B = both |
| • - | ABV for Calving Ease | · — - | | | |
| 95 | ABV Calving Ease | 478 | | Ν | |
| | ABV Analysis Details for Cal | vina | Ease | | |
| 96 | Reliability Calving Ease | 481 | | Ν | |
| | | | _ | | |

| 97 98 | Breed of ABV Analysis Date of ABV Analysis | 483 484 | 1 8 | A N | single char breed code - see DIF Document Note yyyymmdd |
|------------|--|-------------|--------|-------------------|--|
| 99 | Source of ABV Analysis | 492 | 1 | A | A = ABV, I = ABV(i) |
| 100 | Proof publishable | 493 | 1 | A | P = publishable, U = unpublishable |
| 101 | Foreign proof contribution | 494 | 1 | A | A = Aus only, I = International only, B = both |
| 101 | ABV for Somatic Cell Coun | | • | <i>/</i> / | |
| 102 | ABV Somatic Cell Count | | 4 | Ν | |
| 102 | ABV Analysis Details for So | | | | |
| 103 | Reliability Somatic Cell Coun | | 2 | N | |
| 104 | Breed of ABV Analysis | 501 | 1 | A | single char breed code - see DIF Document Note |
| 105 | Date of ABV Analysis | 502 | | Ň | yyyymmdd |
| 106 | Source of ABV Analysis | 510 | 1 | A | A = ABV, I = ABV(i) |
| 107 | Proof publishable | 511 | 1 | A | P = publishable, U = unpublishable |
| 108 | Foreign proof contribution | 512 | 1 | A | A = Aus only, I = International only, B = both |
| 100 | ABV for Daughter Fertility | 512 | 1 | Λ | A = Aus only, I = international only, D = both |
| 109 | ABV Daughter Fertility | 513 | 1 | Ν | |
| 109 | ABV Analysis Details for Da | | | | |
| 110 | Reliability Daughter Fertility | 517 | | N | |
| 111 | | 517 | 2 | - | single oper brood code |
| 112 | Breed of ABV Analysis | 520 | | A N | single char breed code - see DIF Document Note |
| 112 | Date of ABV Analysis | | o 1 | | yyyymmdd $A = A B V(i)$ |
| 114 | Source of ABV Analysis | 528 529 | 1 | A | A = ABV, I = ABV(i) |
| | Proof publishable | 529 530 | | A | P = publishable, U = unpublishable |
| 115 | Foreign proof contribution | | 1 | А | A = Aus only, I = International only, B = both |
| 110 | ABV and Reliability for Live | | | NI | |
| 116 | ABV Liveweight | | 4 | Ν | |
| 447 | ABV Analysis Details for Li | | | N I | |
| 117 | Reliability Liveweight | 535 | | Ň | |
| 118 | Breed of ABV Analysis | 537 | 1 | A | single char breed code - see DIF Document Note |
| 119 | Date of ABV Analysis | | 8 | N | yyyymmdd |
| 120 | Source of ABV Analysis | 546 | 1 | A | A = ABV, I = ABV(i) |
| 121 | Proof publishable | 547 | 1 | A | P = publishable, U = unpublishable |
| 122 | Foreign proof contribution | 548 | 1 | А | A = Aus only, I = International only, B = both |
| 100 | Has Genomics | F 40 | | • | |
| 123 | HasGenomics | 549 | 1 | A | g=genomics included, blank otherwise |
| 124 | DPC Name | 550 | 10 | A | |
| 125 | Herd Owner | 560 | 35 | A | |
| 126 | Dam Name | 595 | 40 | А | |
| 4.07 | Health Weighted Index (HW | | | | |
| 127 | Health Weighted Index | 635 | 4 | N | |
| 128 | Reliability HWI | 639 | 2 | Ν | |
| | Sustainability Index (SI) | ~ · · · | | | |
| 129 | Sustainability Index | 641 | 4 | Ν | |
| 130 | Reliability SI | 645 | 2 | Ν | |
| | ABVs for New Traits | | | | |
| 131 | ABV Residual Survival | 647 | 3 | Ν | |
| 132 | Reliability Residual Survival | 650 | 2 | Ν | |
| 133 | ABV Feed Efficiency | 652 | 5 | Ν | |
| 134 | Reliability Feed Efficiency | 657 | 2 | Ν | |
| | Index Ranking | | | | |
| 135 | Rank in Australia on HWI with | hin-bree | ed659 | 6 | Ν |
| 136 | Rank in Australia on SI within | | | 6 | Ν |
| 100 | ABV for Rump | n brood | | U | |
| 137 | ABV Rump | 671 | 4 | Ν | |
| 107 | ABV for Dairy Strength | 071 | - | IN | |
| | ABV Dairy Strength | 675 | 4 | Ν | |
| 138 | | | | I N | |
| 138 | ARV and Rolishility for Upp | | | | |
| | ABV and Reliability for Hea | | | N | |
| 138 139 | ABV and Reliability for Hea ABV Heat Tolerance ABV Analysis Details for He | 679 | 4 | N | |



| 4 4 4 | ABV and Reliability for Gest | | | | |
|-------|---------------------------------|--------|------|----------|--|
| 141 | ABV Gestation Length | 685 | | N | |
| | ABV Analysis Details for Ge | | | · · · · | |
| 142 | Reliability Gestation Length | 689 | 2 | N | |
| 143 | Breed of ABV Analysis | 691 | 1 | А | single char breed code - see DIF Document Note 1 |
| 144 | Date of ABV Analysis | 692 | 8 | Ν | yyyymmdd |
| 145 | Source of ABV Analysis | 700 | 1 | А | A = ABV, I = ABV(i) |
| 146 | Proof publishable | 701 | 1 | А | P = publishable, U = unpublishable |
| 147 | Foreign proof contribution | 702 | 1 | А | A = Aus only, I = International only, B = both |
| | ABV and Reliability for Mast | itis R | esis | stance | |
| 148 | ABV Mastitis Resistance | 703 | 4 | Ν | |
| | ABV Analysis Details for Ma | stitis | Res | sistance | |
| 149 | Reliability Mastitis Resistance | e 707 | 2 | Ν | |
| 150 | Breed of ABV Analysis | 709 | 1 | А | single char breed code - see DIF Document Note 1 |
| 151 | Date of ABV Analysis | 710 | 8 | Ν | yyyymmdd |
| 152 | Source of ABV Analysis | 718 | 1 | А | A = ABV, I = ABV(i) |
| 153 | Proof publishable | 719 | 1 | А | P = publishable, U = unpublishable |
| 154 | Foreign proof contribution | 720 | 1 | А | A = Aus only, I = International only, B = both |

RECORD LENGTH = 720 bytes

Sort order with all fields in ascending order: Fields 1, 2, 3, 4



Data Format 401 V1

Record for pre-printing of LTE forms

| Fiel No. | d Field Name | Start | Length | Numeric /Alpha | Comments |
|-------------|----------------------------------|-------|--------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 401 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 1 |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Identity | | | | |
| 4 | National Cow ID | 12 | 9 | А | |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| • | Pedigree | | - | | |
| 6 | Sire Primary ID | 27 | 7 | А | |
| 7 | Sire National ID | 34 | 9 | A | |
| 8 | Dam National ID | 43 | 9 | А | |
| 9 | MGS National ID | 52 | 9 | А | |
| | Animal Attributes | | | | |
| 10 | Breed | 61 | 4 | А | |
| 11 | Parity | 65 | 2 | Ν | Lactation number |
| 12 | Date of Birth | 67 | 8 | Ν | yyyymmdd |
| 13 | Date of Calving | 75 | 8 | Ν | yyyymmdd |
| 14 | AB Centre for PT daughters | 83 | 3 | А | see Note 6 |
| 15 | Random number for Contempo | | 86 | 3 | N Range = 1 to number of contemporaries within breed within herd |

RECORD LENGTH = 88 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.



Data Format 481 V3

Genotype Nominations File

| Fiel No. | d Field Name | Start | Length | Numeric /Alpha | Comments |
|-------------|---------------------------------|-------|--------|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 481 |
| 2 | Record Version Number | 4 | 1 | А | Value = 3 |
| | Sample details | | | | |
| 3 | Laboratory code | 5 | 2 | А | See note below |
| 4 | Lab DNA analysis requested | 7 | 2 | Ν | See note below |
| 5 | Electronic sample ID | 9 | 16 | А | e.g. sample bar code |
| 6 | Sample type | 25 | 1 | А | Value B = blood, E = ear plug, H = hair, S = semen (males only) |
| 7 | Date of sample | 26 | 8 | Ν | yyyymmdd |
| | Animal Details | | | | |
| 8 | NLIS Tag Radio Frequency | 34 | 16 | А | |
| 9 | National ID | 50 | 9 | А | See DIF note 3 |
| 10 | Local animal name | 59 | 15 | A | Local bull ID or within-herd cow ID |
| 11 | Sex of animal | 74 | 1 | A | Value M = male, F = female |
| 12 | National Herd ID | 75 | 7 | А | This field is essential for local females |
| 13 | DPC Code | 82 | 1 | A | Data Processing Centre - see DIF note 4 |
| | Supplier and recipient details | 5 | | | |
| 14 | Genotyping service provider co | de 83 | 3 | А | See DIF note 6 |
| 15 | Designated recipient of results | 86 | 70 | A | Genotyping service provider code or recipient email address |
| 16 | Genotyping requested by | 156 | 3 | А | See DIF note 6 |

RECORD LENGTH = 158 bytes

Essential fields for all animals are 1, 2, 3, 4, 5, 9, 10, 11, 14, 15 and 16. Fields 12 and 13 are essential for females. Other fields should be provided when available.

| Laboratory code | | |
|------------------------|--------------------|--------------------------------|
| DE German samples | DK Denmark samples | VD Van Diemen Genetics samples |
| DP AgVic samples | FR France samples | GV Genetic Vision samples |
| GS GeneSeek/Neogen | IT Italy samples | WE Weatherbys samples |
| NL Netherlands samples | UK UK samples | ZT Zoetis samples |
| UQ University of Qld | US USA samples | |

Lab DNA Analysis Requested

- Code Density
- 01 160 SNP panel (NB cannot be used for GEBV calculation)
- 02 9K SNP panel
- 03 50K SNP panel
- 04 80K SNP panel
- 06 20K SNP panel
- 07 11K SNP panel
- 08 16K SNP panel (Zoetis)
- 09 150K SNP panel (Zoetis)
- 10 25K SNP panel (GGPLD_V3)



Data Format 501 V2

Progeny test daughter progress report

| Fiel No. | | Start L olumn | - | meric Ipha | Comments |
|-------------|---|------------------|--------|---------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 501 |
| 2 | Record Version Number | 4 | 1 | Α | Value = 2 |
| _ | Category | | _ | _ | |
| | Bull Owner Code | 5 | 3 | A | See note 6 |
| | Bull Breed | 8 | 4 | A | See note 1 |
| 5 | Agreement with Farmer | 12 | 1 | A | Y or N |
| 6 | Postcode | 13 | 4 | Ν | |
| 7 | Herd Details | 17 | 7 | ۸ | Saa Nata 9 |
| 7 8 | National Herd ID DPC Code | 17 24 | 7 1 | A | See Note 8 Data Processing Control, see Note 4 |
| - | Date of Last Test | 24 25 | 8 | A N | Data Processing Centre - see Note 4 yyyymmdd |
| 9 | PT Daughter Identity | 25 | 0 | IN | yyyymmaa |
| 10 | National ID | 33 | 9 | А | See Note 3 |
| 11 | Within-Herd Cow ID | 42 | 6 | Ň | |
| •• | Pedigree | | Ū | | |
| 12 | Sire NASIS Primary ID | 48 | 7 | А | |
| 13 | Sire NASIS Bull ID | 55 | 12 | A | |
| 14 | Sire National ID | 67 | 9 | А | See Note 3 |
| 15 | Dam National ID | 76 | 9 | А | See Note 3 |
| 16 | MGS National ID | 85 | 9 | Α | See Note 3 |
| | Daughter Details | | | | |
| 17 | Breed | 94 | 4 | Α | See Note 1 |
| | Date of Birth | 98 | 8 | Ν | yyyymmdd |
| | Date of Calving | 106 | 8 | Ν | yyyymmdd |
| | Date of Termination | 114 | 8 | Ν | yyyymmdd blank if lactation in progress |
| 21 | Parity | 122 | 2 | Ν | Parity is the lactation number, if known. It |
| | | | | | is the number of lactations for the cow, |
| ~ ~ | | | | | whether recorded or otherwise |
| | Number of Test Day Records | 124 | 3 | N | |
| | Number of Cell Count Records | 127 | 3 | N | V an N |
| | Workability Scored | 130 | 1 | A | Y or N |
| 25 | Conformation Scored | 131 | 1 | A | Y or N |
| 26 27 | Candidate for Evaluation Included in ABV for Yield | 132 134 | 2 1 | N | See note below |
| 27 28 | Included in ABV for Workability | 134 | 1 | A A | Value Y = yes; N = no Value Y = yes; N = no |
| 20 29 | Included in ABV for Conformatio | | 1 | A | Value $Y = yes$, $N = no$ Value $Y = yes$; $N = no$ |
| 30 | Included in ABV for Calving East | | 1 | A | Value $Y = yes; N = no$ |
| 31 | Included in ABV for Cell Count | 138 | 1 | A | Value $Y = yes; N = no$ |
| 32 | Included in ABV for Daughter Fe | | - | A | Value $Y = yes; N = no$ |
| 33 | Included in ABV for Survival | 140 | 1 | A | Value $Y = yes; N = no$ |
| | | | • | | , |

RECORD LENGTH = 140 bytes



Candidate for Evaluation

| Canulu | | |
|--------|------------|--|
| Code | Category | Description |
| 1 | Too young | Daughter is a potential candidate but is too young |
| 2 | Yes | Daughter is suitable for evaluation of workability and type |
| 3 | Too old | Too old at first calving to be included as a "2 year old" |
| 4 | DNA test? | Sire and daughter have incompatible breed or birth date |
| 5 | Bad dates? | Birth date and calving date are too close together |
| 6 | >305 days | Too late for collection of work and type scores - daughter is too late in lactation |
| 7 | >1st lact | Too late for collection of work and type scores - daughter has completed first lactation |
| 8 | Left herd | Too late for collection of work and type scores - daughter is no longer in this herd |
| 9 | Miss DOB | Missing date of birth |
| | | |

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 5, 6, 7



Data Format 561 V1 Parentage Discovery Sample Description

| Field No. | Field Name | Start Column | Len gth | Numeric /Alpha | Comments |
|----------------------|---|----------------------|------------------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 561 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| 3 | Laboratory Code | 5 | 2 | А | See note below |
| 4 | Electronic sample ID | 7 | 16 | А | e.g. sample bar code |
| 5 | Local animal name | 23 | 15 | А | Local bull ID or within-herd cow ID |
| 6 | National Animal ID | 38 | 9 | А | See DIF note 3 |
| 7 | Sex of animal | 47 | 1 | А | Value M = Male; F = Female |
| 8 | Date of Birth | 48 | 8 | Ν | yyyymmdd |
| 9 | Date of Birth Status Flag | 56 | 1 | Ν | See note below |
| 10 | National Herd ID | 57 | 7 | А | See DIF note 8 |
| 11 | Lab DNA Analysis Requested | 64 | 2 | Ν | See note below |
| 12 | Parentage Discovery Required | 66 | 1 | A | Value Y = Yes, N = No |
| 13 14 15 16 | Service Provider Code Physical sample Sample type Third party billing code | 67 70 71 72 | 3 1 1 3 | A A A | See DIF note 6 See note below See note below See note below |

RECORD LENGTH = 74 bytes

All fields are essential

| Laboratory code | | |
|------------------------|--------------------|--------------------------------|
| DE German samples | DK Denmark samples | VD Van Diemen Genetics samples |
| DP AgVic samples | FR France samples | GV Genetic Vision samples |
| GS GeneSeek/Neogen | IT Italy samples | WE Weatherbys samples |
| NL Netherlands samples | UK UK samples | ZT Zoetis samples |
| UQ University of Qld | US USA samples | |

Date of birth status

- 1 Actual date of birth
- 2 Actual year of birth, estimated month of

Lab DNA Analysis Requested

- Code Density
- 1 160 SNP panel
- 2 9K SNP panel
- 3 50K SNP panel
- 4 80K SNP panel



| Phys | sical sample | |
|------|---|--|
| Y | When physical sample is included to the batch | |
| Ν | When physical sample is not included to the batch (retest case) | |
| | | |

T Tissue

N Nasal Swab

Third party billing code

SEM The Semex Alliance

HUS Holstein USA



Data Format 565 V1

Parentage Discovery Report

| Field No. | Field Name | Start | Length | Numeric | Comments |
|-----------|------------------------------|----------|--------|---------|-------------------------------|
| 1 | Record Type | 1 | 3 | N | Value = 565 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| 3 | Report Type | 5 | 1 | A | Q=QA, P=Parents discovered |
| | Animal IDs | | | | |
| 4 | Animal National ID | 6 | 9 | А | See DIF note 3 |
| 5 | Laboratory Code | 15 | 2 | A | See note below |
| 6 | Animal Sample ID | 17 | 16 | A | e.g. sample bar code |
| Ū | Sample QA and Consistency | | 10 | 7. | elg. campie sal code |
| 7 | Issue Code 1 | 33 | 2 | Ν | See note below |
| 8 | Issue Code 2 | 35 | 2 | N | See note below |
| 9 | Issue Code 2 | 37 | 2 | N | See note below |
| 10 | Issue Code 3 | 39 | 2 | N | See note below |
| 10 | Issue Code 5 | 39 41 | 2 | | See note below |
| | | | 2 | N | |
| 12 | Issue Code 6 | 43 | 2 | Ν | See note below |
| 10 | Parentage Report Details | 45 | 4 | • | |
| 13 | Initial Report, Update or | 45 | 1 | A | I=Initial; U=Update; |
| | Revision | 10 | | | R=Revision |
| 14 | SNP Density used to Discover | 46 | 2 | | See note below |
| | Sire | | | | |
| 15 | SNP Density used to Discover | 48 | 2 | А | See note below |
| | Dam | | _ | | |
| 16 | Number of Previous Samples | 50 | 2 | Ν | |
| | for Animal | | | | |
| 17 | Discovery Herd National ID | 52 | 7 | A | See DIF note 8 |
| 18 | Number of Sires Discovered | 59 | 2 | N | |
| 19 | Number of Dam Discovered | 61 | 2 | N | |
| | Parents Discovered | | | | |
| 20 | Laboratory Code for Sire | 63 | 2 | А | See note below |
| | Sample | | | | |
| 21 | Sire Sample ID | 65 | 16 | А | |
| 22 | Sire National ID | 81 | 9 | А | |
| 23 | Sire Local Animal Name | 90 | 15 | А | Local bull ID |
| 24 | Sire National Herd ID | 105 | 7 | А | |
| 25 | Sire Birth Date | 112 | 8 | Ν | yyyymmdd |
| 26 | Laboratory Code for Dam | 120 | 2 | A | See note below |
| | Sample | | | | |
| 27 | Dam Sample ID | 122 | 16 | А | |
| 28 | Dam National ID | 138 | 9 | A | |
| 29 | Dam Local Animal Name | 147 | 15 | A | Within-Herd Cow ID |
| 30 | Dam National Herd ID | 162 | 7 | A | |
| 31 | Dam Birth Date | 169 | 8 | N | yyyymmdd |
| 51 | Additional Possibility for | 109 | 0 | IN | yyyynniad |
| | Parents | | | | |
| 22 | | 177 | 2 | ۸ | See note below |
| 32 | Laboratory Code for Sire | 177 | 2 | А | See note below |
| 00 | Sample | 470 | 40 | • | |
| 33 | Sire Sample ID | 179 | 16 | A | |
| 34 | Sire National ID | 195 | 9 | A | |
| 35 | Sire Local Animal Name | 204 | 15 | A | Local bull ID |
| 36 | Sire National Herd ID | 219 | 7 | A | _ |
| | | | | | |



Data Interchange Formats

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|-------|----|
| i aye | 40 |

| 37 | Sire Birth Date | 226 | 8 | Ν | Yyyymmdd |
|----|-------------------------|-----|-----|---|--------------------|
| 38 | Laboratory Code for Dam | 234 | 2 | А | See note below |
| | Sample | | | | |
| 39 | Dam Sample ID | 236 | 16 | А | |
| 40 | Dam National ID | 252 | 9 | А | |
| 41 | Dam Local Animal Name | 261 | 15 | А | Within-Herd Cow ID |
| 42 | Dam National Herd ID | 276 | 7 | А | |
| 43 | Dam Birth Date | 283 | 8 | Ν | Yyyymmdd |
| 44 | Comment | 291 | 255 | А | |
| | | | | | |

Sample Description Issues

- Code Issue description
- 1 Invalid laboratory code
- 2 Invalid sample ID
- 3 Invalid local ID
- 4 Invalid national animal ID
- 5 Invalid sex code
- 6 Invalid date of birth
- 7 Invalid date of birth status
- 8 Invalid national herd ID
- 9 Invalid service provider code
- 10 Sex of animal does not match that in the ADHIS database
- 11 Sample description file has more than one record for the same sample
- 12 Invalid SNP density code
- 13 Invalid value in Parentage Discovery Required field
- 14 Invalid DIF record type
- 15 Invalid DIF record version number

Density of SNPs used in discovering parents

- Code Density
- 1 160 SNP panel
- 2 9K SNP panel
- 3 50K SNP panel



DNA Data Issues

Code Issue description
51 DNA data supplied was incomplete; data not used
52 DNA data quality below threshold; data not used

Joint Sample Description and DNA Data Issues

Code Issue description

- 81 Sample description has not been provided
- 82 DNA data not received
- 83 DNA data provided but sample description has issues
- 84 Density requested in sample description does not match density of DNA data

received

Density of SNPs used in discovering parents

Code Density

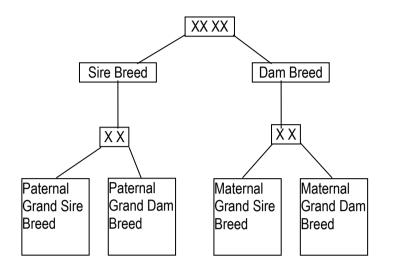
- 1 160 SNP panel
- 2 9K SNP panel
- 3 50K SNP panel
- 4 80K SNP panel



APPENDIX A NOTES OF EXPLANATION

Note 1: Breed Codes

The breed code required is a four character string, capable of defining the parental breeds, ie.



The DataGene single alpha character breed codes are:

| A B C | AYRSHIRE BROWN SWISS AUSTRALIAN COMMERCIAL DAIRY COW |
|-------------|--|
| D | DAIRY SHORTHORN |
| E | BEEF BREEDS |
| F | HOLSTEIN |
| G | GUERNSEY |
| Н | SAHIWAL |
| I | ILLAWARRA |
| J | JERSEY |
| L | NORMANDE |
| М | MEUSE-RHINE-ISSEL |
| Ν | MONTBELIARDE |
| R | RED POLL |
| S | SIMMENTAL |
| U | AUSTRALIAN RED BREED |
| W | AUSTRALIAN FRIESIAN SAHIWAL |
| Z | AUSTRALIAN MILKING ZEBU |
| Х | UNKNOWN |

Example of the four alpha character breed code required by DataGene.

FFFF `PURE' Holstein, resulting from the mating of a Holstein Bull to a Holstein cow.

FFJJ Holstein-Jersey cross, resulting from the mating of a Holstein bull to a Jersey cow.

JJFF Jersey-Holstein cross, resulting from the mating of a Jersey bull to a Holstein cow.

FFFJ Three Quarter Holstein, resulting from the mating of a Holstein bull to a Holstein-Jersey cross cow.

FFXX Holstein cross, resulting from the mating of a Holstein bull to a cow of unknown breed.

FFFX Three Quarter Holstein, resulting from the mating of a Holstein bull to a Holstein cross cow whose sire was Holstein and whose dam was of unknown breed.



Note 2: Herdbook ID

The herdbook ID has two parts. The first part is the country code which indicates to which organisation or country the herdbook number refers. The country codes used are the 3-character Interbull codes outlined in the following table.

| | Interbull country codes | | | | | | | |
|------|-------------------------|------|---------------|------|-------------------|--|--|--|
| Code | Country | Code | Country | Code | Country | | | |
| ARG | Argentina | DEU | Germany | NZL | New Zealand | | | |
| AUS | Australia | GB | Great Britain | NO | Norway | | | |
| | | R | | R | - | | | |
| AUT | Austria | GR | Greece | POL | Poland | | | |
| | | С | | | | | | |
| BEL | Belgium | HU | Hungary | PRT | Portugal | | | |
| | 2 | Ν | 0 | | C C | | | |
| CAN | Canada | IRL | Ireland | SLO | Slovenia | | | |
| CRO | Croatia | ISR | Israel | ZAF | South Africa | | | |
| CSK | Czech Republic | ITA | Italy | ESP | Spain | | | |
| DNK | Denmark | JPN | Japan | SW | Śweden | | | |
| | | | · | Е | | | | |
| EST | Estonia | LUX | Luxembourg | CHE | Switzerland | | | |
| FIN | Finland | ME | Mexico | USA | United States of | | | |
| | | Х | | | America | | | |
| FRA | France | NLD | Netherlands | DFS | Denmark, Finland, | | | |
| | | | | | Sweden | | | |

The next part of the Herdbook ID is the herdbook number itself which is stripped of any leading zeros, left justified and space filled. Examples are :

An Australian bull

A bull from the USA

AUS87777 USA2029999

Country code

Herdbook number



Note 3: National Animal ID

The National IDs for bulls and cows are permanent identifiers and are allocated by DataGene, Data Processing Centres and participating Breed Societies when an animal is first entered onto a computer system. The only time they will be changed is when fixing errors or clashes in National IDs. The National Animal ID is unique across sexes and is a nine character alpha-numeric field. The first character is always the Data Processing Code (See Note 4) for the organization that allocates the code. The formats for allocating National IDs for bulls and cows are:

| | | National ID first allocated by: | Allocation rules |
|-------|---|---------------------------------|---------------------------------|
| Cows | Australian | DPC | Rule 3.1 |
| | | HA | Rule 3.2 |
| Cows | Foreign | DataGene | Rule 3.3 |
| | | HA | Not permitted, contact |
| | | | DataGene |
| | | DPC | Not permitted, contact |
| | | | DataGene |
| Bulls | AI bulls | DataGene | Rule 3.4 |
| | (Australian and | HA | Rule 3.2 |
| | Foreign) | | |
| | | DPC | Not permitted, contact |
| | | | DataGene |
| Bulls | Australian Natural Breed Society bulls | HA, born 1997 or later | Rule 3.2 |
| | , | HA, born before 1997 | Rule 3.5 |
| | | Other Breed Society | Rule 3.5 |
| | | DPC | Allocate according to the Breed |
| | | | Society rules above (3.2 and |
| | | | 3.5) |
| Bulls | Foreign Natural Breed | All | Not permitted, contact |
| | Society bulls | | DataGene |
| Bulls | All Natural bulls not Breed Society | DPC | Rule 3.1 |

Rules for allocation of National Animal IDs

Rule 3.1

National ID is CYY999999WhereC =Data Processing Centre code (See Note 4 below)YY =Year first recorded by the Data Centre (recommended)999999 = Sequence number within Data Centre within year (recommended).E.g.205001111, B06023456

Rule 3.2

National ID is H99999999

WhereH =Data Processing Centre code for Holstein Association (HA)99999999HA Herdbook Number right justified with leading zerosE.g.H01023456, H01111111

Rule 3.3

National ID is G02999999



| Where | G02 = Prefix for Foreign cows allocated by DataGene |
|-------|---|
| | 999999 = Sequence number allocated by DataGene |
| E.g. | G02001234, G02008912 |

Rule 3.4

National ID is A09999999

- Where A0 = Prefix for AI bulls allocated by DataGene
 - 9999999 = Sequence number allocated by DataGene
- E.g. A00009209, A00017558

Rule 3.5

National ID is ABB999999

- Where A = Prefix allocated by DataGene ("A")
 - BB = Numeric breed code allocated by DataGene
 - 999999 = Herdbook Number allocated by the relevant Breed Society with leading

zeros

The valid numeric breed codes (BB) are Holstein (10), Jersey (20), Ayrshire (30), Guernsey (40), Illawarra (55), AFS (56), Dairy Shorthorn (57), Brown Swiss (58), AMZ (59), Red Poll (60), Simmental (61), MRI (62), Sahiwal (63) and Australian Red Breed (64). Please contact DataGene for numeric breed codes for other breeds.

E.g. A10079123, A64029345



Note 4: Data Processing Centre (DPC) Codes (For historical reference, codes of inactive organisations are included in this list)

- HICO (Maffra) 2 3 Yarram 4 NHD 5 HICO (South Gippsland) 6 Genetics Australia (Timboon) 7 HICO (Colac) Genetics Australia (Warnambool) (Western Herd) 8 9 Genetics Australia (Warragul) (West Gippsland) А DataGene В Bovine С ABS (Kyabram) (CHIS) D Genetics Australia (Leongatha) (VHMS) Е AHRS G DataGene Н HA Ν **Dairy Express** Q Dairy Express R Norco S ABS (South Australia) (HISCOL)
- T TDIA
- U CHIS
- W Farm West (HISWA)
- X Mistro
- Y Mistro



Note 5: Termination Codes

Termination codes apply to lactations. Subsets of the codes (the sold (S) and died (D) codes) also apply to cows. This is to facilitate recording of the fate of cows that have left the herd between lactations. Conversion of local codes to the Standard Codes may be necessary.

REQUIREMENTS FOR TERMINATION OF LACTATION CODES

| <u>Dry</u> | DP DD DO | or D1 or D2 or D3 | Dried off, low production Dry due to disease or injury. Other | | | | | |
|--------------|----------------|-------------------------|---|--|--|--|--|--|
| | DL DA | or D4 or D5 | Dried off, end of lactation Cow Aborted - Dried Off | | | | | |
| <u>Sold</u> | S1 | | n or transferred to beef production. | | | | | |
| <u>0010</u> | S2 | Age | n or transferred to beer production. | | | | | |
| | S3 | Mastitis | | | | | | |
| | S4 | Infertility | | | | | | |
| | S5 | Type Defect | | | | | | |
| | S6 | Temperament | | | | | | |
| | S7 | Ease of Milkin | | | | | | |
| | S8 | Sold for dairying | | | | | | |
| | S9 | Other | | | | | | |
| <u>Died</u> | X1 | Milk fever | | | | | | |
| | X2 | Bloat | | | | | | |
| | X3 | Other | | | | | | |
| | X4 | EBL | | | | | | |
| | X5 | Johnes diseas | Se | | | | | |
| | X6 | Mastitis | | | | | | |
| | X7 | Scours | | | | | | |
| | X8 | Calving difficu | Ities | | | | | |
| | X9 | Paralysis | | | | | | |
| | XA | Accident | | | | | | |
| <u>Other</u> | W1 | Herd withdraw | 'n | | | | | |



Note 6: Codes for Organisations that own bulls or request authority for access to records held by DataGene

(For historical reference, the codes for inactive companies are included in this list)

- GAC Genetics Australia
- AGR Agri-Gene
- RAB Riverina Artificial Breeders
- HIM Herd Improvers
- SEM Semex Australia
- ABS ABS Australia
- WWS World-Wide Sires
- TGS Team Genetics
- HTG High Tech Genetics
- LBS Livestock Breeding Services
- NAB Northern Artificial Breeders
- TLG Total Livestock Genetics
- TAC Tatiara AB Centre
- HBS Hunters Bamawn Bull Farm&Semen Collections
- BSI BSI Breeding Services
- CWA Central West AB
- NWG NorthWest Genetics
- HVC Holbrook Veterinary Clinic
- DDA Darling Downs AB Centre
- BOV Bovine Semen (Aust)
- COO Coolau Downs Artificial Breeders
- NAR Australian Livestock Genetics
- NEA New England Artificial Breeders
- WAB Westralian AB Services
- WAS Woodlands Agricultural Services
- ALT Alta Genetics
- HFA Holstein Friesian Association of Australia
- JER Australian Jersey Breeders Society
- CRV CRV Australia
- BOS BOS Trading
- NZG Livestock Improvement Corporation
- LIC Livestock Improvement Corporation
- LIV Livestock Improvement Corporation
- RAG Raging Bulls
- GDF Genes Diffusion
- RED Auzred Xb
- VIK Viking Genetics
- ARG Ausred Genetics
- GLS Global Sires
- CAM Cameron Genetics
- ADH DataGene
- RES Research Organisation/Purposes
- ALL A code to cover all organisations



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Note 7: Health event codes

Health event codes are maintained by DataGeneand can be downloaded from the DataGene web site (<u>https://datagene.com.au/</u>). The codes are used in format 116 unless specified otherwise.

Common health treatment codes are listed in the event codes Excel spreadsheet, but the code required is the APVMA registration number for the drug. For drugs not on the list (eg; new drugs), please go to the web site of the Australian Pesticides and Veterinary Medicines Authority (<u>https://apvma.gov.au/</u>) and search the Registered Products Database (PUBCRIS) on the Chemicals and Products page.

The first six fields in the Excel spreadsheet are:

| Fiel No. | d Field Name | | imeric Alpha | Comments |
|-------------|-----------------------------------|----|-----------------|--|
| 1 | DataGene code | 5 | Ν | Used in formats 108 and 116 |
| | Event mnemonic | 10 | А | |
| 3 | Full name | 30 | А | |
| 4 | Withhold (single treatment) | 3 | Ν | Withholding period in days (12 hours = 0.5) |
| 5 | Withhold (multiple treatments) | 3 | Ν | Withholding period in days (12 hours = 0.5) |
| 6 | Event/treatment group code | 2 | Ν | See below |
| Eve | nt group codes | | | |
| 0 | Mating events (format 108) | | | |
| 1 | Reproductive problems | | | |
| | Mastitis | | | |
| | Leg problems | | | |
| 4 | Diseases | | | |
| | atment group codes | | | |
| | Hormones | | | |
| | Antibiotics | | | |
| | Drenches | | | |
| | Vaccines | | | |
| - | Mastitis | | | |
| | Uterine/Urinary | | | |
| | Alimentary | | | |
| - | Anaesthetics | | | |
| | Nervous system | | | |
| | Skin preps | | | |
| | Ear nose eyes Musculo skeletal | | | |
| | Metabolic and nutritional | | | |
| | Other unspecified | | | |
| 33 | | | | |



Note 8: National Herd ID

The National Herd ID is the standard ID identifier for herds (groups of cows) when transferring data between participants in the herd improvement industry. The National Herd ID is a unique permanent ID for that group of cows. It is issued by DPCs. It includes a check character to ensure the integrity of the data.

The National Herd ID consists of seven characters from the range A-Z and 0-9.

- The first character is the DPC Code for the DPC which issued the ID.
- The following five characters are allocated by the DPC and can follow any strategy as long as they are unique within that DPC.
- The last character is a check character and is calculated by the algorithm set out below.

Check character algorithm

- 1. Add the ascii value of the characters in the first, third and fifth positions and call this total x.
- 2. Add the ascii value of the characters in the second, fourth and sixth positions and call this total y.
- 3. Calculate z = x + 3y.
- 4. Let $n = (z \mod 23) + 1$
- 5. The check character is the nth letter of the alphabet. It will be represented in upper case.

Example: Suppose the first 6 characters of the National Herd ID are C12345, then:

 $\begin{array}{l} x = 67 + 50 + 52 = 169 \\ y = 49 + 51 + 53 = 153 \\ z = 169 + 3^{*} 153 = 628 \\ n = (628 \mod 23) + 1 = 8 \\ \text{The check character is H} \\ \text{The full National Herd ID is C12345H.} \end{array}$

Note: All characters should be upper case.



Note 9: National Livestock Identification Scheme (NLIS) Formats

These formats are for the transfer of information about animal movements from DPCs to NLIS and DataGene.

Data Format NLIS1NLIS Transfer Record

| Fie | d | Start column | - | hNumerio Alpha | c/Comments |
|-----|-----------------------|-----------------|----|-------------------|------------------------------------|
| 1 | NLIS ID | 1 | 16 | А | Can use RF ID in place of NLIS ID. |
| 2 | From PIC | 17 | 8 | А | · |
| 3 | To PIC | 25 | 8 | А | |
| 4 | EU Vendor ID | 33 | 7 | А | |
| 5 | Transfer Date | 40 | 10 | А | Format: dd/mm/yyyy |
| 6 | From National Herd ID | 50 | 7 | А | See Note 8 |
| 7 | To National Herd ID | 57 | 7 | А | See Note 8 |
| | | | | | |

RECORD LENGTH = 63 bytes

Fields 1 to 5 are essential for NLIS. All fields are essential for DataGene.

Data Format NLIS2NLIS Termination Record

| Fie | ld | Start L column | .engt | hNumerio Alpha | c/Comments |
|-----|---------------------|-------------------|-------|-------------------|--|
| 1 | NLIS ID | 1 | 16 | A | Can use rf ID in place of NLIS ID. |
| 2 | PIC | 17 | 8 | A | |
| 3 | Date | 25 | 10 | А | Format: dd/mm/yyyy |
| 4 | Reason Code | 35 | 1 | А | L – Lost/Defective Tag, D – Dead Animal. |
| 5 | Replacement NLIS ID | 36 | 16 | A | Mandatory for lost tags – can use rf ID in place of NLIS ID. |

RECORD LENGTH = 51 bytes

Fields 1, 2, 3 4 are essential. If Reason Code = "L", field 5 is essential



Note 10: Genetic codes

The following genetic codes indicate whether an animal has tested positive or negative for a range of genetic recessives or a value for a homozygous or heterozygous genotype. Two letter codes have been updated to three-letter codes, with (where applicable) C = Carrier, F = tested free or non carrier.

| Trait BLAD Citrullinaemia DUMPS Mulesfoot CVM Factor XI Brachyspina | Positive BLC CNC DPC MFC CVC XIC BYC | Negative BLF CNF DPF MFF CVF XIF BYF | | | |
|--|---|---|--|--|--|
| Coat Colour Red carrier Black Red Variant Red | RDC BRC VRC | RDF | | | |
| A1A2 | A1/A2 | A11=A1A1, A12=A1A2, A22=A2A2 | | | |
| Polled | POS = tested true polled (homozygous PP) POC = tested carrier of polled (heterozygous Pp) POF = tested free of polled | | | | |



APPENDIX BFormats discontinued from14th June 2003

The following formats have been replaced by version 2 formats as from 14th June 2003.

It is highly recommended that these discontinued formats not be used for data transfer, but DataGene undertakes to accept them until 14th June 2004.

| Format | Data Record for discontinued formats | Version | Page | Date of Update |
|--------|--|---------|------|-----------------------------|
| 101 | Herd Record | 1 | B-3 | 9 th May 2001 |
| 105 | Bull Pedigree Record (incorporates NASIS file) | 1 | B-4 | 9 th May 2001 |
| 110 | Disclosure Record | 1 | B-5 | 9 th May 2001 |
| 114 | Conformation Trait Record | 1 | B-6 | 26 th April 2001 |
| 201 | Bull ABVs for All Traits | 1 | B-8 | 9 th May 2001 |

Summary of differences between Version 1 and Version 2 formats

DIF101 V2

- Field 2 Record Version Number now = 2
- Field 18 Local herd ID is a new field appended at the end of the record

DIF105 V2

- Field 2 Record Version Number now = 2
- Field 20 NASIS Active Sire Code is a new field appended at the end of the record

DIF110 V2

- Field 2 Record Version Number now = 2
- Field 7 DPC Code is a new field appended at the end of the record

DIF114 V2

- Field 2 Record Version Number now = 2
- Field 25 Linear Traits now contains 24 traits (24x1) instead of 22 Front End Height is inserted after Angularity Teat Placement Rear is inserted after Teat Placement Fore

DIF201 V2

- Field 2 Record Version Number now = 2
- Fields 81-82 ABV for Liveweight and Reliability of Liveweight ABV are new fields appended at the end of the record

Data Format 101 V1

Herd Record

discontinued 14th June 2003

| Fiel No. | | Start I column | - | nNumeric Alpha | c/Comments |
|-------------|--------------------------------------|-------------------|----|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 101 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 1 |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| 4 | Farmer Name and Address Full Name | 12 | 35 | A | Surname or Company name to appear first in this field to allow sorting on Farmer Name to be meaningful. |
| 5 | Line 1 | 47 | 35 | А | |
| 6 | Line 2 | 82 | 35 | A | |
| 7 | Line 3 | 117 | 35 | А | |
| 8 | Postcode | 152 | 4 | Ν | |
| 9 | Farmer Phone Number | 156 | 15 | А | |
| | Location Details | | | | |
| 10 | State Code | 171 | 1 | А | First digit of state postcode |
| 11 | Location Code | 172 | 3 | А | To enable herds to be grouped by Region |
| 12 | NLIS Property Identification C | | 8 | А | |
| 13 | GPS Latitude | 183 | 8 | Ν | Farm location using Global Positioning System |
| 14 | GPS Longitude | 191 | 8 | Ν | |
| | Herd Codes | | | | |
| 15 | Testing Frequency | 199 | 1 | Ν | Value 1 = 24 hour test 2 = Alternate am/pm 3 = 3 times a day milking 4 = Other |
| 16 | Sampler | 200 | 1 | A | Value $F =$ Farmer sampler R = Recorder sampler U = Unknown sampler C = Farmer Collection |
| 17 | DPC Code | 201 | 1 | А | Data Processing Centre - see Note 4 |

RECORD LENGTH = 201 bytes

<u>Global Positioning System coordinates (GPS Latitude and GPS Longitude)</u> The GPS coordinates identify the location of the property. The units are degrees x 100000 (that is, there is an implied decimal place after the third digit). Negative signs are omitted.

Essential fields for DataGene are 1, 2, 3, 4, 8, 10, 11, 15, 16, 17. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3.

Data Format 105 V1 Bull Pedigree Record

discontinued 14th June 2003

| Fiel No. | d Field Name | Start Colum | | Numeric /Alpha | Comments |
|-------------|----------------------------|----------------|-----|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 105 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Bull Identity | | | | |
| 3 | Bull National ID | 5 | 9 | А | See Note 3 |
| | Bull Herdbook ID | | | | |
| 4 | Country Code | 14 | 3 | А | See Note 2 |
| 5 | Herdbook Number | 17 | 12 | А | See Note 2 |
| 6 | Local Bull ID | 29 | 15 | А | |
| 7 | Date of Birth | 44 | 8 | Ν | yyyymmdd |
| 8 | Bull Breed | 52 | 4 | А | See Note 1 |
| | Pedigree Details | | | | |
| 9 | Sire National ID | 56 | 9 | А | See Note 3 |
| 10 | Dam National ID | 65 | 9 | А | See Note 3 |
| 11 | MGS National ID | 74 | 9 | А | See Note 3 |
| 12 | Bull name | 83 | 40 | А | |
| | NASIS Bull Details | | | | |
| 13 | NASIS Primary ID | 123 | 7 | А | |
| 14 | Bull ID | 130 | 12 | A | |
| 15 | Bull Owner Code | 142 | 3 | А | See Note 6 |
| 16 | International ID | 145 | 19 | A | Interbull format - see note below |
| 17 | PT Sampling Code | 164 | 1 | А | |
| 18 | Date First Semen Available | 165 | 8 | Ν | yyyymmdd |
| 19 | Defect Codes | 173 | 4x2 | A | Up to 4 two-character codes - see note below |

RECORD LENGTH = 180 bytes

| International ID | | | | | | | | | |
|--|--|----|----|----------|--|--|--|--|--|
| The International ID as designated by Interbull has the following format | | | | | | | | | |
| Breed | 3 characters (eg, HOL, JER, AYS, GUE) | | | | | | | | |
| Country | 3 characters (eg, AUS, USA, CAN - see Note 2 for a full list of codes) | | | | | | | | |
| Sex | 1 character (M or F) | | | | | | | | |
| Within-Country ID | 12 characters (right justified, zero filled) | | | | | | | | |
| Defect Codes | | | | | | | | | |
| The following defect codes indicate whether an animal has tested positive or negative for the defect | | | | | | | | | |
| Defect | Positiv | ve | | Negative | | | | | |
| BLAD | BL | | ΤL | | | | | | |
| Citrullinaemia | CN | | TC | | | | | | |
| DUMPS | | DP | | TD | | | | | |
| Mulesfoot | MF | | ΤM | | | | | | |

Essential fields for DataGene are 1, 2, 3, 8. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3.

Data Format 110 V1

Disclosure / Non-Disclosure Record

discontinued 14th June 2003

| Fiel No. | d Field Name | Start L Column | .ength | Numeric /Alpha | Comments |
|-------------|----------------------------------|-------------------|--------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 110 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 1 |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| 4 | Organisation with/without Aut | hority12 | 3 | А | See Note 6 |
| 5 | Date initiated | 15 | 8 | Ν | yyyymmdd |
| 6 | Disclosure | 23 | 1 | A | (Y = disclose data to Organisation, N = don't disclose data to Organisation) |

RECORD LENGTH = 23 bytes

The record exists to authorise DataGeneto disclose data for a herd to organisations other than the DPC which provided the data to DataGene, or to prohibit DataGenefrom disclosing data to other organisations.

All fields are essential for DataGene.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.

Data Format 114 V1

Conformation Trait Record

discontinued 14th June 2003

| Fiel No. | d Field Name | Start | Leng | thNumeri /Alpha | c Comments | | |
|-------------|--|-----------|----------|--------------------|--|--|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 114 | | |
| | Record Version Number | 4 | 1 | A | Value = 1 | | |
| | Herd ID | | | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 | | |
| | Cow Identity | | | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 | | |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | | | |
| • | Herdbook ID | ~ - | | | | | |
| 6 | Country Code | 27 | 3 | A | See Note 2 | | |
| 7 | Herdbook Number | 30 | 12 | A | See Note 2 | | |
| 8 | NLIS Animal ID | 42 | 16 | A | | | |
| 9 | NLIS Tag Radio Frequency | 58 | 16 | A | One Note 4 | | |
| 10 | Breed Birth data | 74 | 4 | A | See Note 1 | | |
| 11 | Birth date | 78 | 8 | Ν | yyyymmdd | | |
| 12 | Pedigree details Sire National ID | 96 | 0 | ۸ | See Note 3 | | |
| 12 | Dam National ID | 86 95 | 9 9 | A A | See Note 3 | | |
| 13 | MGS National ID | 95 104 | 9 | A | | | |
| 14 | | 104 | 9 | A | See Note 3 (Used by DataGene if Dam ID is unavailable, and MGS is available) | | |
| | Lactation details | | | | | | |
| | Date of Calving | 113 | 8 | N | yyyymmdd | | |
| 16 17 | Parity Date of Classification | 121 | 2 8 | N | Lactation number | | |
| 17 | Transfer Details | 123 | 0 | Ν | yyyymmdd See eyplanation belew | | |
| 10 | Transfer-in date | 131 | o | N | See explanation below | | |
| | | - | 8 120 | N 7 | yyyymmdd | | |
| 19 | 19 National ID of Herd Transferred from 139 7 A See Note 8 Classification Details | | | | | | |
| 20 | | 146 | 3 | А | | | |
| 21 | Round | 149 | 2 | Ň | | | |
| 22 | Total Score for Animal | 151 | 2 | Ν | | | |
| 23 | Total Score for Dam | 153 | 2 | Ν | | | |
| 24 | Composite Traits | 155 | 2x2 | Ν | Overall type and mammary system - range 1- 18 | | |
| 25 | Linear Traits | 159 | 22x1 | Ν | See next page for trait description - range 1- | | |
| 26 | Condition score | 181 | 2 | Ν | 3 | | |
| 27 | Defects | 183 | 5x2 | N | | | |
| 28 | Extra Composite Traits | 193 | 7x2 | N | See next page for trait description - range 1- 18 | | |

RECORD LENGTH = 206 bytes

Essential fields

Essential fields are 1, 2,3,4,10,11,15,16,17,24,25. All other fields are strongly recommended.

<u>Field 25 Linear Traits</u> - Note that trait 8 (Loin Strength) is not recorded for Holsteins. Also Rear leg rear view is a new trait (2001).

- 1 Stature General characters
- 2 Udder texture
- Bone qualityAngularity
- 5 Muzzle width Front end
- 6 Body length
- 7 Body depth
- 8 Loin strength
- 9 Chest width
- 10 Length Rump
- 11 Pin Width
- 12 Pin set
- 13 Foot angle Feet & legs
- 14 Rear set
- 15 Rear leg rear view Note: new trait 2001
- 16 Udder depth Mammary system
- 17 Fore attachment
- 18 Rear attachment height
- 19 Rear attachment width
- 20 Centre ligament
- 21 Teat placement fore
- 22 Teat length

Field 28 Extra Composite Traits - Not used by DataGene but measured on some cows.

- 1 Unspecified, contact the relevant Breed Society
- 2 Unspecified, contact the relevant Breed Society
- 3 Unspecified, contact the relevant Breed Society
- 4 Unspecified, contact the relevant Breed Society
- 5 Unspecified, contact the relevant Breed Society
- 6 Unspecified, contact the relevant Breed Society
- 7 Unspecified, contact the relevant Breed Society

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.

Data Format 201 V1

Bull ABVs for All Traits

discontinued 14th June 2003

| Fiel No. | | Start Colum | - | hNumerio /Alpha | c Comments |
|-------------|---|------------------|-----------|--------------------|--|
| | | | | • | |
| 1 | Record Type | 1 | 3 | N | Value = 201 |
| 2 | Record Version Number | 4 | 1 | A | Value = 1 |
| ~ | Bull Identity | - | 0 | ۸ | One Nata 2 |
| 3 | National ID | 5 | 9 | A | See Note 3 |
| | NASIS Bull ID | 14 | 12 | A | If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | A | If NASIS |
| 6 | Herdbook ID | 33 | 2 | ۸ | See Note 2 |
| 6 7 | Country Code Herdbook Number | 36 | 3 12 | A A | See Note 2 |
| 8 | Name | 48 | 40 | A | See Note 2 |
| 9 | Defect Codes | 88 | 40 4x2 | Â | Up to 4 two-character codes (see format 105) |
| 9 | Bull Details | 00 | 472 | ~ | |
| 10 | Date of Birth | 96 | 8 | Ν | yyyymmdd |
| 11 | Sire National ID | 104 | 9 | A | see Note 3 |
| | Dam National ID | 113 | 9 | A | see Note 3 |
| | MGS National ID | 122 | 9 | A | see Note 3 |
| | ABV Analysis Details | | • | | |
| 14 | Breed of ABV Analysis | 131 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 132 | 8 | Ν | yyyymmdd |
| | Source of ABV Analysis | 140 | 1 | A | A = ABV, I = prod. + conf. ABV(i), P = |
| | | | | | production ABV(i) only, C = conformation ABV(i) only |
| | Australian Profit Ranking (| - | | | |
| | Australian Profit Ranking | 141 | 4 | N | |
| 18 | Reliability APR | 145 | 2 | Ν | |
| 40 | ABVs for Production Traits | | | | |
| | Australian Selection Index | 147 | 4 | N | |
| | Protein | 151 | 4 | N | |
| 21 | Protein Percentage | 155 | 5 | N | Two decimal places (eg, -0.12) |
| 22 | Milk | 160 | 5 | N | |
| | Fat | 165 | 4 | N | Two desired places (e.g., 0.12) |
| 24 | Fat Percentage Amount of data for Produc | 169 tion Troi | 5 | Ν | Two decimal places (eg, -0.12) |
| 25 | | | | N | |
| 25 26 | Reliability Number of Daughters | 174 176 | 2 6 | N N | |
| 20 27 | Number of Herds | 182 | 5 | N | |
| | Number in Herd - most Daug | | | N | |
| | Number in Herd - 2nd most E | | | 4 | Ν |
| 30 | Records in progress (RIP%) | 195 | 3 3 | Ň | % of daughters with < 4 test days in 1^{st} |
| 00 | | | 0 | | lactation |
| 24 | ABVs for Conformation Tra | | 4 | NI | One desimal place (ag. 0.1) |
| 31 32 | Overall Type Mammary System | 198 202 | 4 4 | N N | One decimal place(eg, -0.1) |
| | Stature | 202 | 4 | N | One decimal place |
| | Udder Texture | 200 | 4 | N | One decimal place One decimal place |
| | Bone Quality | 210 | 4 | N | One decimal place |
| | Angularity | 214 | 4 | N | One decimal place |
| | Muzzle Width | 210 | 4 | N | One decimal place |
| | Body Length | 222 | 4 | N | One decimal place |
| 39 | Body Depth (new trait) | 220 | 4 | N | One decimal place |
| 40 | Chest Width | 234 | 4 | N | One decimal place |
| ru | | 204 | т | 1.1 | |

| Page | B-7 |
|------|-----|
|------|-----|

| 41 | Rump Length | 238 | 4 | N | One decimal place |
|-----|--|------------|--------|--------|--------------------------|
| 42 | Pin Width | 242 | 4 | Ν | One decimal place |
| 43 | Pin Set | 246 | 4 | Ν | One decimal place |
| 43 | | 240 250 | 4 | N | One decimal place |
| | Foot Angle (new trait) | | | | One decimal place |
| | Rear Set of Leg | 254 | 4 | N | One decimal place |
| | Rear Leg Rear View (provision | | 4 | N | One decimal place |
| 47 | Udder Depth (new trait) | 262 | 4 | N | One decimal place |
| 48 | Fore Attachment | 266 | 4 | N | One decimal place |
| 49 | Rear Attachment Height | 270 | 4 | N | One decimal place |
| | Rear Attachment Width | 274 | 4 | N | One decimal place |
| 51 | Centre Ligament | 278 | 4 | N | One decimal place |
| | Teat Placement | 282 | 4 | N | One decimal place |
| | Teat Length (new trait) | 286 | 4 | N | One decimal place |
| 54 | Loin Strength (not Holsteins) | 290 | _4 | Ν | One decimal place |
| | Amount of data for old Confe | | | | |
| 55 | Reliability | 294 | 2 | N | |
| 56 | Number of Daughters | 296 | 6 | N | |
| 57 | Number of Herds | ,302 | 5 | Ň | |
| 50 | Amount of data for new Con | | | | rding commenced in 1994) |
| | Reliability | 307 | 2 | N | |
| 59 | Number of Daughters | 309 | 6 | N | |
| 60 | Number of Herds | 315 | 5 | Ν | |
| 04 | ABVs for Workability Traits | 200 | ~ | NI | |
| 61 | ABV Milking Speed | 320 | 2 | N | |
| 62 | ABV Temperament | 322 | 2 | N | |
| 63 | ABV Likability | 324 | 2 | Ν | |
| C 4 | Amount of data for Workabil | | | NI | |
| | Reliability Workability Traits | 326 | 2 | N | |
| | Number of Daughters | 328 | 6 | N | |
| 66 | Number of Herds | 334 | 5 | Ν | |
| 07 | ABV and Reliability for Survi | | 2 | NI | |
| | ABV Survival | 339 | 3 | N | |
| 68 | Reliability Survival | 342 | 2 | Ν | |
| ~~ | ABV for Calving Ease | 044 | 2 | NI | |
| 69 | ABV Calving Ease | 344 | 3 | Ν | |
| 70 | Amount of data for Calving I | | 2 | NI | |
| | Reliability Calving Ease | 347 | 2 | N | |
| 71 | Number of Calvings | 349 | 6 | N | |
| 72 | Number of Herds | 355 | 5 | Ν | |
| 70 | ABV for Somatic Cell Count | 260 | 1 | NI | Drevisional |
| 13 | ABV Somatic Cell Count | 360 | 4 | Ν | Provisional |
| 74 | Amount of data for Somatic | | | NI | Drovicional |
| 74 | Reliability Somatic Cell Count | 364 | 2 | N | Provisional |
| 75 | Number of Daughters | 366 | 6 | N | Provisional |
| 76 | Number of Herds | 372 | 5 | Ν | Provisional |
| 77 | ABV for Cow Fertility | 277 | Λ | NI | Drovicional |
| 77 | ABV Cow Fertility | 377 | 4 | Ν | Provisional |
| 70 | Amount of data for Cow Fert | | C | NI | Brovisional |
| 78 | Reliability Fertility | 381 | 2 | N | Provisional |
| 79 | Number of Daughters Number of Herds | 383 389 | 6 5 | N N | Provisional |
| 80 | | 209 | 0 | IN | Provisional |

RECORD LENGTH = 393 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3

APPENDIX C Formats discontinued from 4th March 2008

The following formats have been replaced by later version formats as from 4th March 2008.

| Format | Data Record for discontinued formats | Version | Page | Date of Update |
|--------|---------------------------------------|---------|------|-----------------------------|
| 114 | Conformation Trait Record | 2 | C-3 | 8 th Oct 2002 |
| 201 | Bull ABVs for All Traits | 2 | C-5 | 9 th May 2001 |
| 501 | Progeny test daughter progress report | 1 | C-8 | 26 th April 2001 |

Note that DIF Format 112 Calving Ease has had an increase in valid codes but no change to the format.

Also, there is a new DIF Format 251 for bull ABVs for All Traits (extended)

Summary of differences between Versions of formats

DIF114 V3

Field 2 Record Version Number now = 3

Field 24 Expanded from 2 composite traits to 7 composite traits

Field 25 Now 25 traits instead of 24 traits

Field 25 Extra linear trait Heel Depth inserted as trait 14 after Foot Angle

Field 25 Front end height moved from trait 5 to trait 25. Other traits kept in same order.

Field 27 Each defect (total 5) now has a severity code (1 = moderate, 2 = high)

Field 28 Extra composite traits are more clearly specified

New Field 29 - Condition score on 1 to 9 scale

New Field 30 – Condition score on scale used by Holstein Association

New Field 31 – Number of times scored excellent (not used by DataGene)

DIF201 V3

Field 2 Record Version Number now = 3

ABVs for Conformation traits

New Field 33 - Inserted ABV for Overall Feet & Legs between Mammary System and Stature

New Field 41 – Moved ABV for Loin Strength from the end to between Body Depth and Chest Width

New Field 47 – Inserted ABV for Heel Depth between Foot Angle and Rear Set of Leg

New Field 56 – Inserted ABV for Teat Placement Rear between Teat Placement Fore and Teat Length

New Field 58 – Condition Score

ABVs for traits other than Yield, ASI and APR are now expressed as Relative Breeding Values (RBVs) with base value of 100 and a standard deviation equal to the coefficient of variation for the trait. The field length is now 3 digits for all these traits.

'Amount of data for Conformation Traits (average of key traits)' now replaces both 'Amount of data for old Conformation Traits' and 'Amount of data for new Conformation Traits'.

DIF501 V2

Field 2 Record Version Number now = 2

New Fields 27-33 Codes to indicate if the animal is included in the ABV of the sire for yield, workability, conformation, calving ease, cell count, daughter fertility and survival traits.

Data Format 114 V2 Conformation Trait Record

discontinued 4th March 2008

| Fie No. | d Field Name | Star | t Lengt | hNumeri /Alpha | ic Comments |
|------------|--------------------------------|--------|---------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 114 |
| 2 | Record Version Number | . 4 | 1 | A | Value = 2 |
| - | Herd ID | • | • | ,, | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Identity | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| | Herdbook ID | | | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | А | See Note 2 |
| 8 | NLIS Animal ID | 42 | 16 | А | |
| 9 | NLIS Tag Radio Frequency | 58 | 16 | А | |
| 10 | Breed | 74 | 4 | А | See Note 1 |
| 11 | Birth date | 78 | 8 | Ν | yyyymmdd |
| | Pedigree details | | | | |
| 12 | Sire National ID | 86 | 9 | А | See Note 3 |
| 13 | Dam National ID | 95 | 9 | А | See Note 3 |
| 14 | MGS National ID | 104 | 9 | А | See Note 3 (Used by DataGene if Dam ID is unavailable, and MGS is available) |
| | Lactation details | | | | |
| 15 | Date of Calving | 113 | 8 | Ν | yyyymmdd |
| | Parity | 121 | 2 | N | Lactation number |
| 17 | Date of Classification | 123 | 8 | Ν | yyyymmdd |
| | Transfer Details | | | | See explanation below |
| 18 | Transfer-in date | 131 | 8 | Ν | yyyymmdd |
| 19 | National ID of Herd Transferre | d from | 139 | 7 | A See Note 8 |
| | Classification Details | | | | |
| 20 | | 146 | 3 | А | |
| 21 | Round | 149 | 2 | N | |
| 22 | Total Score for Animal | 151 | 2 | N | |
| 23 | Total Score for Dam | 153 | 2 | N | Overall type and memory eveters range 1 |
| 24 | Composite Traits | 155 | 2x2 | N | Overall type and mammary system - range 1- 18 |
| 25 | Linear Traits | 159 | 24x1 | Ν | See next page for trait description - range 1-9 |
| | Condition score | 183 | 2 | N | |
| 27 | Defects | 185 | 5x2 | N | |
| 28 | Extra Composite Traits | 195 | 7x2 | Ν | See next page for trait description - range 1- 18 |

RECORD LENGTH = 208 bytes

Essential fields

Essential fields are 1, 2,3,4,10,11,15,16,17,24,25. All other fields are strongly recommended.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.

Field 25 Linear Traits - Note that trait 16 (Rear leg rear view) is a new trait in 2001, and trait 5 (Front end height) and 23 (Teat placement rear) are new traits in 2002.

- 1 Stature General characters
- 2 Udder texture
- 3 Bone quality
- 4 Angularity
- 5 Front End Height Front end (Note: new trait 2002)
- 6 Muzzle width
- 7 Body length
- 8 Body depth
- 9 Loin strength
- 10 Chest width
- 11 Length Rump
- 12 Pin Width
- 13 Pin set
- 14 Foot angle Feet & legs
- 15 Rear set
- 16 Rear leg rear view (Note: new trait 2001)
- 17 Udder depth Mammary system
- 18 Fore attachment
- 19 Rear attachment height
- 20 Rear attachment width
- 21 Centre ligament
- 22 Teat placement fore
- 23 Teat placement rear (Note: new trait 2002)
- 24 Teat length

Field 28 Extra Composite Traits - Not used by DataGene but measured on some cows.

- 1 Unspecified, contact the relevant Breed Society
- 2 Unspecified, contact the relevant Breed Society
- 3 Unspecified, contact the relevant Breed Society
- 4 Unspecified, contact the relevant Breed Society
- 5 Unspecified, contact the relevant Breed Society
- 6 Unspecified, contact the relevant Breed Society
- 7 Unspecified, contact the relevant Breed Society

Data Format 201 V2

Bull ABVs for All Traits

discontinued 4th March 2008

| Fiel No. | | Start Colum | - | hNumerio /Alpha | c Comments |
|-------------|---|----------------|--------|--------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 201 |
| 2 | Record Version Number | 4 | 1 | A | Value = 2 |
| | Bull Identity | | | | |
| 3 | National ID | 5 | 9 | А | See Note 3 |
| 4 | NASIS Bull ID | 14 | 12 | Α | If NASIS |
| 5 | NASIS Primary ID Herdbook ID | 26 | 7 | A | If NASIS |
| 6 | Country Code | 33 | 3 | A | See Note 2 |
| 7 | Herdbook Number | 36 | 12 | A | See Note 2 |
| 8 | Name | 48 | 40 | A | |
| 9 | Defect Codes | 88 | 4x2 | A | Up to 4 two-character codes (see format 105) |
| 10 | Bull Details | 00 | 0 | N | va a a mono del |
| | Date of Birth | 96 | 8 | N | yyyymmdd |
| 11 | Sire National ID Dam National ID | 104 113 | 9 9 | A A | see Note 3 see Note 3 |
| | MGS National ID | 122 | 9 | A | see Note 3 |
| 15 | ABV Analysis Details | 122 | 9 | ~ | See Note 5 |
| 14 | Breed of ABV Analysis | 131 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 132 | 8 | Ň | yyyymmdd |
| | Source of ABV Analysis | 140 | 1 | A | A = ABV, $I = prod. + conf. ABV(i)$, $P = production ABV(i) only$, $C = conformation ABV(i) only$ |
| | Australian Profit Ranking (/ | APR) | | | |
| 17 | Australian Profit Ranking | 141 | 4 | Ν | |
| | Reliability APR | 145 | 2 | Ν | |
| | ABVs for Production Traits | | | | |
| | Australian Selection Index | 147 | 4 | N | |
| | Protein | 151 | 4 | N | \mathbf{T} |
| 21 | Protein Percentage | 155 | 5 | N | Two decimal places (eg, -0.12) |
| 22 | Milk | 160 | 5 | N | |
| | Fat Fat Dereantage | 165 169 | 4 5 | N N | Two desimal places (eq. 0.12) |
| | Fat Percentage Amount of data for Product | tion Trait | ts | | Two decimal places (eg, -0.12) |
| 25 | Reliability | 174 | 2 | N | |
| 26 | Number of Daughters | 176 | 6 | N | |
| 27 | Number of Herds | 182 | 5 | N | |
| | Number in Herd - most Daug | | 4 | N | Ν |
| | Number in Herd - 2nd most D Records in progress (RIP%) | 195 | 3 | 4 N | % of daughters with < 4 test days in 1 st lactation |
| | ABVs for Conformation Tra | nits | | | |
| 31 | Overall Type | 198 | 4 | Ν | One decimal place(eg, -0.1) |
| 32 | Mammary System | 202 | 4 | Ν | One decimal place |
| 33 | Stature | 206 | 4 | Ν | One decimal place |
| | Udder Texture | 210 | 4 | Ν | One decimal place |
| | Bone Quality | 214 | 4 | N | One decimal place |
| | Angularity | 218 | 4 | N | One decimal place |
| | Muzzle Width | 222 | 4 | N | One decimal place |
| | Body Length | 226 | 4 | N | One decimal place |
| 39 | Body Depth (new trait) | 230 | 4 | Ν | One decimal place |

| Page | C-4 |
|-------|-----|
| i ugo | 0 - |

| 40 | Chest Width | 234 | 4 | Ν | One decimal place |
|-----|--------------------------------|------------|--------|-----|-------------------------|
| 41 | Rump Length | 238 | 4 | N | One decimal place |
| | Pin Width | 242 | 4 | N | One decimal place |
| | Pin Set | 246 | 4 | N | One decimal place |
| | | 250 | 4 | N | • |
| | Foot Angle (new trait) | | | | One decimal place |
| | Rear Set of Leg | 254 | 4 | N | One decimal place |
| | Rear Leg Rear View (provision | | 4 | N | One decimal place |
| 47 | | 262 | 4 | N | One decimal place |
| | Fore Attachment | 266 | 4 | Ν | One decimal place |
| 49 | Rear Attachment Height | 270 | 4 | Ν | One decimal place |
| 50 | Rear Attachment Width | 274 | 4 | Ν | One decimal place |
| 51 | Centre Ligament | 278 | 4 | Ν | One decimal place |
| 52 | Teat Placement | 282 | 4 | Ν | One decimal place |
| 53 | Teat Length (new trait) | 286 | 4 | Ν | One decimal place |
| 54 | | 290 | 4 | Ν | One decimal place |
| | Amount of data for old Confo | ormation 7 | Traits | | · |
| 55 | Reliability | 294 | 2 | Ν | |
| 56 | • | 296 | 6 | N | |
| 57 | 0 | 302 | 5 | N | |
| 57 | Amount of data for new Conf | | | | ding commenced in 1994) |
| 58 | Reliability | 307 | 2 | N | |
| | | 309 | 6 | N | |
| | Number of Daughters | | 5 | | |
| 60 | Number of Herds | 315 | 5 | Ν | |
| 0.4 | ABVs for Workability Traits | | • | | |
| | ABV Milking Speed | 320 | 2 | N | |
| | ABV Temperament | 322 | 2 | N | |
| 63 | ABV Likability | 324 | 2 | Ν | |
| | Amount of data for Workabili | | | | |
| 64 | Reliability Workability Traits | 326 | 2 | Ν | |
| 65 | Number of Daughters | 328 | 6 | Ν | |
| 66 | Number of Herds | 334 | 5 | Ν | |
| | ABV and Reliability for Survi | val | | | |
| 67 | ABV Survival | 339 | 3 | Ν | |
| 68 | Reliability Survival | 342 | 2 | Ν | |
| | ABV for Calving Ease | | | | |
| 69 | ABV Calving Ease | 344 | 3 | Ν | |
| | Amount of data for Calving E | | 0 | | |
| 70 | Reliability Calving Ease | 347 | 2 | Ν | |
| | Number of Calvings | 349 | 6 | N | |
| | Number of Herds | 355 | 5 | N | |
| 12 | ABV for Somatic Cell Count | 555 | 5 | IN | |
| 70 | | 260 | 1 | NI | |
| 73 | ABV Somatic Cell Count | 360 | 4 | Ν | |
| 74 | Amount of data for Somatic (| | | N I | |
| | Reliability Somatic Cell Count | 364 | 2 | N | |
| | Number of Daughters | 366 | 6 | N | |
| 76 | Number of Herds | 372 | 5 | Ν | |
| | ABV for Cow Fertility | | | | |
| 77 | ABV Cow Fertility | 377 | 4 | Ν | |
| | Amount of data for Cow Fert | ility | | | |
| 78 | Reliability Fertility | 381 | 2 | Ν | |
| | Number of Daughters | 383 | 6 | Ν | |
| | Number of Herds | 389 | 5 | Ν | |
| - | ABV for Liveweight | | | | |
| 81 | | 394 | 4 | Ν | |
| | Amount of data for Liveweigh | | | | |
| 82 | Reliability Liveweight | 398 | 2 | Ν | |
| | | | = | - | |
| | | | | | |

RECORD LENGTH = 399 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3

Data Format 501 V1 Progeny test daughter progress report

discontinued 4th March 2008

| Fiel No. | d Field Name | Start Le Column | | meric (Ipha | Comments |
|-------------|------------------------------|--------------------|----|-----------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 501 |
| 2 | Record Version Number | 4 | 1 | Α | Value = 1 |
| | Category | | | | |
| 3 | Bull Owner Code | 5 | 3 | Α | See note 6 |
| 4 | Bull Breed | 8 | 4 | Α | See note 1 |
| 5 | Agreement with Farmer | 12 | 1 | А | Y or N |
| 6 | Postcode | 13 | 4 | Ν | |
| | Herd Details | | | | |
| 7 | National Herd ID | 17 | 7 | Α | See Note 8 |
| 8 | DPC Code | 24 | 1 | Α | Data Processing Centre - see Note 4 |
| 9 | Date of Last Test | 25 | 8 | Ν | yyyymmdd |
| | PT Daughter Identity | | | | |
| 10 | National ID | 33 | 9 | Α | See Note 3 |
| 11 | Within-Herd Cow ID | 42 | 6 | Ν | |
| | Pedigree | | | | |
| | Sire NASIS Primary ID | 48 | 7 | Α | |
| 13 | Sire NASIS Bull ID | 55 | 12 | Α | |
| 14 | Sire National ID | 67 | 9 | Α | See Note 3 |
| | Dam National ID | 76 | 9 | Α | See Note 3 |
| 16 | MGS National ID | 85 | 9 | Α | See Note 3 |
| | Daughter Details | | | | |
| 17 | Breed | 94 | 4 | Α | See Note 1 |
| 18 | Date of Birth | 98 | 8 | Ν | yyyymmdd |
| 19 | Date of Calving | 106 | 8 | Ν | yyyymmdd |
| 20 | Date of Termination | 114 | 8 | Ν | yyyymmdd blank if lactation in progress |
| 21 | Parity | 122 | 2 | Ν | Parity is the lactation number, if known. It |
| | | | | | is the number of lactations for the cow, |
| | | | | | whether recorded or otherwise |
| 22 | Number of Test Day Records | 124 | 3 | Ν | |
| 23 | Number of Cell Count Records | | 3 | Ν | |
| 24 | Workability Scored | 130 | 1 | Α | Y or N |
| 25 | Conformation Scored | 131 | 1 | Α | Y or N |
| 26 | Candidate for Evaluation? | 132 | 2 | Ν | See note below |

RECORD LENGTH = 133 bytes

Candidate for Evaluation Code Category Description 1 Too young Daughter is a potential candidate but is too young 2 Yes Daughter is suitable for evaluation of workability and type 3 Too old Too old at first calving to be included as a "2 year old" 4 DNA test? Sire and daughter have incompatible breed or birth date 5 Bad dates? Birth date and calving date are too close together Too late for collection of work and type scores - daughter is too late in lactation 6 >305 days 7 Too late for collection of work and type scores - daughter has completed first lactation >1st lact 8 Left herd Too late for collection of work and type scores - daughter is no longer in this herd

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 5, 6, 7

April 2012

APPENDIX D Formats discontinued from

The following formats have been replaced by later version formats as from April 2012.

| Format | Data Record for discontinued formats | Version | Page | Date of Update |
|--------|--|----------|------|-------------------|
| 105 | Bull Pedigree Record (incorporates NASIS file) | 2 | D-3 | |
| 108 | Mating record | 1 | D-4 | |
| 201 | Bull ABVs for All Traits | 3 | D-5 | |
| 211 | Cow ABVs for Production Traits | 1 | D-7 | |
| 212 | Herd Mean ABVs for production Traits | 1 | D-8 | |
| 251 | Bull ABVs for All Traits (extended file) | 1, 2, 3* | D-9 | |

* versions 2 and 3 of dif251 have never been published

The following formats are new formats from April 2012.

| 202 | Cow ABVs for All Traits | 1 | |
|-----|-------------------------|---|--|
| 481 | Genotype Nomination | 2 | |

Summary of differences between Versions of formats

DIF105 V3

| Field 19 | Genetic codes expanded to 3 characters each with new codes being implemented (note 10), and extension to a maximum of 8 codes, renaming of trait from defect to code |
|----------------------------------|--|
| Field 21 Field 22 Field 23 | Introduction of a first common name Introduction of a second common name Introduction of a field to indicate when sexed semen was first available |
| DIF108 V2 | |
| Field 9 | Introduced Mating start date |
| DIF201 V4 | |
| Field 9 | Genetic codes expanded to 3 characters each, and extension to a maximum of 8 with new codes being implemented (note 10), renaming of trait from defect to code |
| Field 84 | Genomic Evaluation introduced |
| DIF211 V2 | |
| Field 20 Field 30 Field 31 | Inserted APR before ASI APR rank inserted after ASI rank Genomic Evaluation introduced |
| DIF212 V2 | |
| Field 11 Field 18 | Inserted APR before ASI APR rank inserted before ASI rank |
| | |

DIF251 V4

Note V2 and V3 were never published

| Field 10 | Genetic codes expanded to 3 characters each, and extension to a maximum of |
|----------------|--|
| | 8, renaming of trait from defect to code |
| Fields 100-211 | Separate details on each conformation trait introduced |
| Field 344 | Genomic Evaluation introduced |

Data Format 105 V2 file)

Bull Pedigree Record (incorporates NASIS

| Fie No. | d Field Name | Start Colum | | hNumerio /Alpha | c Comments |
|------------|----------------------------|----------------|-----|--------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 105 |
| 2 | Record Version Number | 4 | 1 | А | Value = 2 |
| | Bull Identity | | | | |
| 3 | Bull National ID | 5 | 9 | A | See Note 3 |
| | Bull Herdbook ID | | | | |
| 4 | Country Code | 14 | 3 | A | See Note 2 |
| 5 | Herdbook Number | 17 | 12 | A | See Note 2 |
| 6 | Local Bull ID | 29 | 15 | A | |
| 7 | Date of Birth | 44 | 8 | Ν | yyyymmdd |
| 8 | Bull Breed | 52 | 4 | A | See Note 1 |
| | Pedigree Details | | | | |
| 9 | Sire National ID | 56 | 9 | A | See Note 3 |
| 10 | Dam National ID | 65 | 9 | A | See Note 3 |
| 11 | MGS National ID | 74 | 9 | A | See Note 3 |
| 12 | Bull name | 83 | 40 | A | |
| | NASIS Bull Details | | | | |
| 13 | NASIS Primary ID | 123 | 7 | A | |
| 14 | Bull ID | 130 | 12 | A | |
| 15 | Bull Owner Code | 142 | 3 | A | See Note 6 |
| 16 | International ID | 145 | 19 | А | Interbull format - see note below |
| 17 | PT Sampling Code | 164 | 1 | А | |
| 18 | Date First Semen Available | 165 | 8 | Ν | yyyymmdd |
| 19 | Defect Codes | 173 | 4x2 | А | Up to 4 two-character codes - see note below |
| 20 | NASIS Active Sire Code | 181 | 1 | A | A = active, W = warning of a possible conflict with the ID of another bull, blank = not active |

RECORD LENGTH = 181 bytes

Data Format 108 V1 Mating Record

| Fiel No. | | Start Le Column | ength | Numeric /Alpha | Comments |
|-------------|-------------------------------------|--------------------|-------|-------------------|--|
| | | | | <i></i> | |
| 1 | Record Type | 1 | 3 | Ν | Value = 108 |
| 2 | Record Version Number Herd ID | 4 | 1 | А | Value = 1 |
| 3 | National Herd ID Cow Details | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| | Mating Details | | | | |
| 6 | Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Code | 35 | 3 | Ν | See mating codes below |
| 8 | Result | 38 | 5 | A | Free field for describing test result. For pregnancy diagnosis result, it is the number of days. |
| 9 | Fresh semen used | 43 | 1 | А | Y = Yes, N = No |
| 10 | Semen straw split | 44 | 1 | Ν | Indicates the number of inseminations per straw, $1 = Not$ split, $2 = Split$ into two parts, $3 = Split$ into three parts |
| 11 | Bull National ID | 45 | 9 | А | See Note 3 |
| 12 | Semen Batch Number | 54 | 10 | А | |
| 13 | Inseminator Code | 64 | 7 | А | A code for each AI-Centre Technician |
| | Embryo Transfer Donor ID Herd ID | | | | |
| 14 | National Herd ID Cow Details | 71 | 7 | A | See Note 8 |
| 15 | National Cow ID | 78 | 9 | А | See Note 3 |
| 16 | Within-Herd Cow ID | 87 | 6 | Ν | |

RECORD LENGTH = 92 bytes

Essential fields for DataGene are 1, 2, 3, 4, 6, 7, 9, 10, 11 (if mating code = "1", field 13 is essential) Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.

| Mating event codes | | | | | | | |
|--------------------|--------------------|-----------------------------------|--|--|--|--|--|
| DataGene Code | Mating MNEMONIC | Mating Event Name | | | | | |
| 1 | MAP | Mating-AI-Centre Technician | | | | | |
| 2 | MA | Mating-AI-DIY | | | | | |
| 3 | MN | Mating-Natural | | | | | |
| 4 | MNC | Mating-Natural Controlled | | | | | |
| 5 | ME | Mating-Embryo Implanted | | | | | |
| 10 | PD | Pregnancy Test | | | | | |
| 20 | OS | Pregnancy Test using Confirm | | | | | |
| 30 | US | Pregnancy Test using Ultrasound | | | | | |
| 101 | HO | Heat Observed With No Mating | | | | | |
| 102 | HM | Heat - Multiple Ovulation / Flush | | | | | |

Data Format 201 V3 Bull ABVs for All Traits

| Fiel No. | d Field Name | Start Column | | Numeric /Alpha | Comments |
|------------------|---|---|---|-----------------------|---|
| 1 2 | Record Type Record Version Number Bull Identity | 1 4 | 3 1 | N A | Value = 201 Value = 3 |
| 3 4 5 | National ID NASIS Bull ID NASIS Primary ID Herdbook ID | 5 14 26 | 9 12 7 | A A A | See Note 3 If NASIS If NASIS |
| 6 7 8 9 | Country Code Herdbook Number Name Defect Codes | 33 36 48 88 | 3 12 40 4x2 | A A A A | See Note 2 See Note 2 Up to 4 two-character codes (see format 105) |
| 10 11 12 | Bull Details Date of Birth Sire National ID Dam National ID MGS National ID | 96 104 113 122 | 8 9 9 9 | N A A A | yyyymmdd see Note 3 see Note 3 see Note 3 |
| 15 | ABV Analysis Details Breed of ABV Analysis Date of ABV Analysis Source of ABV Analysis | 131 132 140 | 1 8 1 | A N A | single character breed code - see Note 1 yyyymmdd A = ABV, I = prod. + conf. ABV(i), P = production ABV(i) only, C = conformation ABV(i) only |
| | Australian Profit Ranking (A Australian Profit Ranking Reliability APR ABVs for Production Traits | . PR) 141 145 | 4 2 | N N | |
| 20 21 22 | Australian Selection Index Protein Protein Percentage Milk Fat | 147 151 155 160 165 | 4 4 5 5 4 | N N N N N | Two decimal places (eg, -0.12) |
| 24 | Fat Percentage Amount of data for Product | 169 on Trait | 5 : s | Ν | Two decimal places (eg, -0.12) |
| 26 27 | Reliability Number of Daughters Number of Herds Number in Herd - most Daugh Number in Herd - 2nd most Daugh Records in progress (RIP%) | | 2 6 5 4 191 3 | N N N 4 N | N % of daughters with < 4 test days in 1 st |
| 36 37 38 | Udder Texture | ts 198 201 204 207 210 213 216 219 222 225 228 | 3 | Z Z Z Z Z Z Z Z Z Z | lactation |

| | 42 | Chest Width | 231 | 3 | Ν |
|---|----------|--------------------------------|-------------|---------------------------------|----|
| | | | 234 | 3 | Ν |
| | | | 237 | 3 | N |
| | | Pin Set | 240 | 3 | N |
| | | | 243 | 2 | N |
| | | Foot Angle | | 3 | |
| | 47 | Heel Depth | 246 | 3 | N |
| | | Rear Set of Leg | 249 | 3 | N |
| | | Rear Leg Rear View | 252 | 3 | Ν |
| ļ | 50 | Udder Depth | 255 | 3 | Ν |
| ļ | 51 | Fore Attachment | 258 | 3 | Ν |
| | | Rear Attachment Height | 261 | 3 3 3 3 3 3 3 | Ν |
| | | Rear Attachment Width | 264 | 3 | Ν |
| | | Centre Ligament | 267 | 3 | N |
| | | Teat Placement Fore | 270 | | N |
| | | | | 3 3 | N |
| | | Teat Placement Rear (new trait | | 3 | |
| | | Teat Length | 276 | 3 | N |
| ; | 58 | Condition Score | 279 | 3 | N |
| | | Amount of data for Conforma | tion I rait | s (aver | |
| | | 5 | | 2 | Ν |
| | | Number of Daughters | | 6 | Ν |
| (| 61 | Number of Herds | 290 | 5 | Ν |
| | | ABVs for Workability Traits | | | |
| (| 62 | ABV Milking Speed | 295 | 3 | Ν |
| | | ABV Temperament | 298 | 3 | Ν |
| | 64 | ABV Likability | 301 | 3 | Ν |
| | - | Amount of data for Workabili | | - | |
| (| 65 | Reliability Workability Traits | 304 | 2 | Ν |
| | 66 | Number of Daughters | | 6 | N |
| | 67 | Number of Herds | 312 | 5 | N |
| | 01 | ABV and Reliability for Surviv | | 0 | |
| | 68 | ABV Survival | 317 | 3 | Ν |
| | | | | 2 | N |
| | 69 | Reliability Survival | 320 | Ζ | IN |
| | 70 | ABV for Calving Ease | 200 | ~ | NI |
| | 70 | ABV Calving Ease | | 3 | Ν |
| | - 4 | Amount of data for Calving E | | • | |
| | 71 | Reliability Calving Ease | | 2 | N |
| | 72 | Number of Calvings | | 6 | Ν |
| - | 73 | Number of Herds | 333 | 5 | Ν |
| | | ABV for Cell Count | | | |
| - | 74 | ABV Somatic Cell Count | 338 | 3 | Ν |
| | | Amount of data for Cell Coun | t | | |
| - | 75 | Reliability Cell Count | 341 | 2 | Ν |
| • | 76 | Number of Daughters | 343 | 6 | Ν |
| | 77 | Number of Herds | 349 | 5 | N |
| | | ABV for Daughter Fertility | • • • | • | |
| - | 78 | ABV Daughter Fertility | 354 | 3 | Ν |
| | 10 | Amount of data for Daughter | | 0 | |
| - | 79 | Reliability Daughter Fertility | | 2 | N |
| | 79 80 | Number of Daughters | 359 | 6 | N |
| | | | | 5 | |
| Ċ | 81 | Number of Herds | 365 | 5 | Ν |
| | 00 | ABV for Liveweight | 270 | 2 | NI |
| è | 82 | ABV Liveweight (kg) | | 3 | N |
| | 00 | Amount of data for Liveweigh | | ~ | NI |
| | 83 | Reliability Liveweight | 373 | 2 | Ν |
| | | | | | |

RECORD LENGTH = 374 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3

Data Format 211 V1 Cow ABVs for Production Traits

| Fiel No. | d Field Name | Start Columr | - | Numeric /Alpha | Comments |
|-------------|--|-----------------|--------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 211 |
| | Record Version Number | 4 | 1 | А | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Identity | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| | Herdbook ID | | | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | А | See Note 2 |
| _ | Cow Details | | | _ | - ··· · |
| | Breed of cow | 42 | 4 | A | See Note 1 |
| | Date of Birth | 46 | 8 | N | yyyymmdd |
| | Date of Latest Calving | 54 | 8 | N | yyyymmdd |
| | Number of Lactations in ABV | • | | 2 | N |
| 12 | Crossbreed | 64 | 1 | A | 'X' if crossbreed, otherwise space |
| 13 | DPC Code | 65 | 1 | A | See Note 4 |
| | Pedigree details | 00 | • | • | |
| | Sire National ID | 66 | 9 | A | See Note 3 |
| 15 | Dam National ID | 75 | 9 | A | See Note 3 |
| 16 | MGS National ID | 84 | 9 | A | See Note 3 |
| 47 | ABV Analysis Details | 00 | 4 | ۸ | single character bread code |
| | Breed of ABV Analysis | 93 | 1 | A | single character breed code - see Note 1 |
| | Date of ABV Analysis | 94 102 | 8 1 | N | yyyymmdd A-DataCana, I-Interhull |
| 19 | Source of ABV Analysis ABVs for Production Traits | 102 | I | A | A=DataGene, I=Interbull |
| 20 | Australian Selection Index (AS | SI)103 | 4 | Ν | |
| | Protein | 107 | 4 | N | |
| | Protein Percentage | 111 | 5 | N | Two decimal places (eg, -0.12) |
| 23 | Milk | 116 | 5 | N | Two decimal places (eg, -0.12) |
| | Fat | 121 | 4 | N | |
| | Fat Percentage | 125 | 5 | N | Two decimal places (eg, -0.12) |
| 26 | Reliability | 130 | 2 | N | |
| 27 | Rank in Australia on ASI withi | | 132 | 6 | N Rank within Australia and within Breed of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, |

RECORD LENGTH = 137 bytes

otherwise zero.

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.

Data Format 212 V1 Herd Mean ABVs for Production Traits

| Fiel No. | | Start I Column | _ength | Numeric /Alpha | Comments |
|-------------|--------------------------------|-------------------|---------------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 212 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Herd Details | | | | |
| 4 | DPC Code | 12 | 1 | A | See Note 4 |
| 5 | Number of cows with ABVs | 13 | 5 | Ν | |
| 6 | Number of cows in Herd Avera | ges18 | 5 | Ν | Number of straightbred cows whose latest calving date is within 30 months of the Date of ABV Analysis (field 10) |
| 7 | Age Class Code | 23 | 2 | А | See note below |
| | ABV Analysis Details | | | | |
| 8 | Breed of ABV Analysis | 25 | 1 | А | single character breed code - see Note 1 |
| 9 | Date of ABV Analysis | 26 | 8 | Ν | yyyymmdd |
| 10 | Source of ABV Analysis | 34 | 1 | A | A=DataGene, I=Interbull |
| | Herd Average ABVs for Prod | | Fraits | | |
| 11 | Australian Selection Index (AS |) 35 | 6 | Ν | One decimal place (eg, -123.4) |
| 12 | Protein | 41 | 6 | Ν | One decimal place (eg, -12.4) |
| 13 | Protein Percentage | 47 | 6 | Ν | Three decimal places (eg, -0.123) |
| 14 | Milk | 53 | 7 | Ν | One decimal place (eg, -1234.5) |
| 15 | Fat | 60 | 6 | Ν | One decimal place (eg, -12.4) |
| 16 | Fat Percentage | 66 | 6 | Ν | Three decimal places (eg, -0.123) |
| 17 | Rank of Herd on ASI | 72 | 6 | Ν | Rank within Australia and within Breed of ABV Analysis (field 9). This rank is only for the whole herd (Age Class = 9T) and is only supplied to purchasers of the elite herd list, otherwise zero. |

RECORD LENGTH = 77 bytes

Note : Herd mean ABVs are supplied for the following age classes (field 7) with one record per class per breed of analysis (field 8).

| Code | Class | Age at calving |
|--|--|---|
| 2J 2S 3J 3S 4J 4S 9M 9T | Junior 2 Senior 2 Junior 3 Senior 3 Junior 4 Senior 4 Mature | Up to 30 months Over 30 and up to 36 months Over 36 and up to 42 months Over 42 and up to 48 months Over 48 and up to 54 months Over 54 and up to 60 months Over 72 months All age groups combined |

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 8, 7.

Data Format 251 V1 Bull ABVs for All Traits (extended file)

| Fiel No. | d Field Name | Start Columr | | Numeric /Alpha | Comments |
|-------------|--|-----------------|----------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 251 |
| | Record Version Number | 4 | 1 | A | Value = 1 |
| | Bull Identity | | | | |
| 3 | National ID | 5 | 9 | А | See Note 3 |
| 4 | NASIS Bull ID | 14 | 12 | А | If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | А | If NASIS |
| | Herdbook ID | | | | |
| 6 | Country Code | 33 | 3 | A | See Note 2 |
| 7 | Herdbook Number | 36 | 12 | A | See Note 2 |
| 8 | International ID | 48 | 19 | A | Interbull format |
| 9 | Name | 67 | 40 | A | |
| 10 | Defect Codes | 107 | 4x2 | А | Up to 4 two-character codes (see format 105) |
| | Bull Details | 445 | 0 | NI | · · · · · · · · · · · · · · · · · · · |
| 11 | Date of Birth | 115 | 8 | N | yyyymmdd |
| 12 | Sire National ID | 123 | 9 | A | see Note 3 |
| 13 | Dam National ID | 132 | 9 | A | see Note 3 |
| 14 | MGS National ID | 141 | 9 | A | see Note 3 |
| 15 | MGD National ID | 150 | 9 | A | see Note 3 |
| 16 17 | Sire International ID | 159 178 | 19 10 | A | Interbull format Interbull format |
| 17 18 | Dam International ID MGS International ID | 197 | 19 19 | A A | Interbull format |
| 19 | MGD International ID | 216 | 19 | A | Interbull format |
| 19 | International Proof Details | 210 | 19 | ~ | Interbuirtonnat |
| 20 | Type of Proof | 235 | 2 | Ν | Interbull codes – see note below |
| 21 | Includes Foreign Proof | 237 | 1 | A | Y = information from another country is |
| 21 | | 201 | | / | incorporated in national proof, N otherwise |
| 22 | Birth Date of First Australian D Australian Profit Ranking (A | | 238 | 8 | N yyyymmdd |
| 23 | Australian Profit Ranking | 246 | 4 | Ν | |
| | Reliability APR | 250 | 2 | Ν | |
| | Main Components of APR | | | | |
| 25 | Protein | 252 | 4 | Ν | |
| 26 | Milk | 256 | 4 | Ν | |
| 27 | Fat | 260 | 4 | Ν | |
| 28 | Milking Speed | 264 | 4 | Ν | |
| | Temperament | 268 | 4 | N | |
| | Survival Index | 272 | 4 | N | |
| 31 | Somatic Cell Count | 276 | 4 | N | |
| | Liveweight | 280 | 4 | N | |
| 33 | Daughter Fertility | 284 | 4 | Ν | |
| 04 | Components of Survival Ind | | 4 | NI | |
| 34 | | 288 | 4 | N | |
| | Likability | 292 | 4 | N | |
| 36 37 | Overall Type | 296 300 | 4 4 | N N | |
| | Udder Depth Pin Set | 300 304 | 4 4 | N N | |
| 30 | Components of Liveweight | 304 | 4 | IN | |
| 39 | • • | 308 | 4 | Ν | |
| 40 | Body depth | 312 | 4 | N | |
| 41 | Chest width | 316 | 4 | N | |
| FI | | 010 | т | | |

| ABVs for Production Traits | | |
|---|--------|--|
| 42 Australian Selection Index 320 4 | Ν | |
| 43 Protein 324 4 | Ν | |
| 44 Protein Percentage 328 5 | Ν | Two decimal places (eg, -0.12) |
| 45 Milk 333 5 | Ν | |
| 46 Fat 338 4 | Ν | |
| 47 Fat Percentage 342 5 | Ν | Two decimal places (eg, -0.12) |
| Amount of data for Production Traits | | |
| 48 Reliability 347 2 | Ν | |
| 49 Number of Daughters 349 6 | N | |
| 50 Number of Herds 355 5 | Ν | |
| 51 Effective Daughter Contribution 360 6 | Ν | |
| 52 Number in Herd - most Daughters366 4 | Ν | |
| 53 Number in Herd - 2nd most Daughters 370 | 4 | Ν |
| 54 Records in Progress (RIP%) 374 3 | N | % of daughters with < 4 test days in 1st |
| lactation | | |
| International Daughter Numbers for Produ | | |
| 55 Number of Countries With Daughters 377 | 2 | N |
| 56 Country With Most Daughters 379 3 | А | see note 2 for list of country codes |
| 57 Number of Daughters in This Country 382 | 6 | N |
| 58 Country With Second Most Daughters 388 | 3 | A see note 2 for list of country codes |
| 59 Number of Daughters in This Country 391 | 6 | N |
| 60 Country With Third Most Daughters397 3 | A | see note 2 for list of country codes |
| 61 Number of Daughters in This Country 400 | 6 | N |
| 62 Country With Fourth Most Daughters 406 | 3 | A see note 2 for list of country codes |
| 63 Number of Daughters in This Country 409 | 6 | N |
| 64 Country With Fifth Most Daughters415 3 | A | see note 2 for list of country codes |
| 65 Number of Daughters in This Country 418 | 6 | Ν |
| ABV Analysis Details for Production Trait | _ | |
| 66 Breed of ABV Analysis 424 1 | A | single character breed code - see Note 1 |
| 67 Date of ABV Analysis 425 8 | N | yyyymmdd |
| 68 Source of ABV Analysis 433 1 | A | A = ABV, I = ABV(i) |
| 69 Proof publishable 434 1 | A | P = publishable, U = unpublishable |
| 70 Foreign proof contribution 435 1 | A | A = Aus only, I = International only, B = both |
| ABVs for Conformation Traits 71 Overall Type 436 3 | N | |
| 71 | N | |
| 72Mammary System439373Overall Feet and Legs4423 | N N | |
| 73 Overall Feet and Legs442374 Stature4453 | N | |
| 74 Statule 445 5 75 Udder Texture 448 3 | N | |
| 76 Bone Quality 451 3 | N | |
| 77 Angularity 454 3 | N | |
| 78 Muzzle Width 457 3 | N | |
| 79 Body Length 460 3 | N | |
| 80 Body Depth 463 3 | N | |
| 81 Loin Strength 466 3 | N | |
| 82 Chest Width 469 3 | N | |
| 83 Rump Length 472 3 | Ň | |
| 84 Pin Width 475 3 | N | |
| 85 Pin Set 478 3 | Ň | |
| 86 Foot Angle 481 3 | N | |
| 87 Heel Depth 484 3 | Ň | |
| 88 Rear Set of Leg 487 3 | N | |
| 89 Rear Leg Rear View 490 3 | Ň | |
| 90 Udder Depth 493 3 | Ν | |
| 91 Fore Attachment 496 3 | Ν | |
| 92 Rear Attachment Height 499 3 | Ν | |
| 93 Rear Attachment Width 502 3 | Ν | |
| | | |

| 94 Centre Ligament | 505 | 3 | Ν | |
|-------------------------------------|-----|----------|--------|--|
| 95 Teat Placement Fore | 508 | 3 | Ν | |
| 96 Teat Placement Rear | 511 | 3 | Ν | |
| 97 Teat Length | 514 | 3 | Ν | |
| 98 Condition Score | 517 | 3 | Ν | |
| Amount of data for Conform | | | verage | of key traits) |
| 99 Reliability | 520 | 2 | Ν | |
| 100 Number of Daughters | 522 | 6 | Ν | |
| 101 Number of Herds | 528 | 5 | Ν | |
| 102 Effective Daughter Contribution | | 6 | Ν | |
| International Daughter Num | | | | |
| 103 Number of Countries With Da | | | 2 | Ν |
| 104 Country With Most Daughters | | 3 | А | see note 2 for list of country codes |
| 105 Number of Daughters in This | | | 6 | Ν |
| 106 Country With Second Most D | | | 3 | A see note 2 for list of country codes |
| 107 Number of Daughters in This | | | 6 | Ν |
| 108 Country With Third Most Dau | | | А | see note 2 for list of country codes |
| 109 Number of Daughters in This | | | 6 | Ν |
| 110 Country With Fourth Most Da | | | 3 | A see note 2 for list of country codes |
| 111 Number of Daughters in This | | | 6 | Ν |
| 112 Country With Fifth Most Daug | | | А | see note 2 for list of country codes |
| 113 Number of Daughters in This | | | 6 | Ν |
| ABV Analysis Details for Co | | tion Tra | aits | |
| 114 Breed of ABV Analysis | 586 | 1 | А | single character breed code - see Note 1 |
| 115 Date of ABV Analysis | 587 | 8 | Ν | yyyymmdd |
| 116 Source of ABV Analysis | 595 | 1 | А | A = ABV, I = ABV(i) |
| 117 Proof publishable | 596 | 1 | А | P = publishable, U = unpublishable |
| 118 Foreign proof contribution | 597 | 1 | А | A = Aus only, I = International only, B = both |
| ABVs for Workability Traits | | | | |
| 119 ABV Milking Speed | 598 | 3 | Ν | |
| 120 ABV Temperament | 601 | 3 | Ν | |
| 121 ABV Likability | 604 | 3 | Ν | |
| Amount of data for Workab | | | | |
| 122 Reliability Workability Traits | 607 | 2 | N | |
| 123 Number of Daughters | 609 | 6 | N | |
| 124 Number of Herds | 615 | 5 | N | |
| 125 Effective Daughter Contribution | | 6 | N | |
| International Daughter Num | | | - | |
| 126 Number of Countries With Da | | - | 2 | Ν |
| 127 Country With Most Daughters | | 3 | A | see note 2 for list of country codes |
| 128 Number of Daughters in This | | | 6 | Ν |
| 129 Country With Second Most D | | | 3 | A see note 2 for list of country codes |
| 130 Number of Daughters in This | | | 6 | N |
| 131 Country With Third Most Dau | | | A | see note 2 for list of country codes |
| 132 Number of Daughters in This | | | 6 | N |
| 133 Country With Fourth Most Da | 0 | | 3 | A see note 2 for list of country codes |
| 134 Number of Daughters in This | | | 6 | N |
| 135 Country With Fifth Most Daug | | | A | see note 2 for list of country codes |
| 136 Number of Daughters in This | | | 6 | Ν |
| ABV Analysis Details for W | | • | | ala ala akana tau kura di sa da 💦 Ni Kut |
| 137 Breed of ABV Analysis | 673 | 1 | A | single character breed code - see Note 1 |
| 138 Date of ABV Analysis | 674 | 8 | N | yyyymmdd |
| 139 Source of ABV Analysis | 682 | 1 | A | A = ABV, I = ABV(i) |
| 140 Proof publishable | 683 | 1 | A | P = publishable, U = unpublishable |
| 141 Foreign proof contribution | 684 | 1 | A | A = Aus only, I = International only, B = both |
| | | | | |

| Survival Solution | | | | |
|--|--|--|---------------------------------|--|
| 142 Survival Solution | 685 | 3 | Ν | |
| 143 Reliability Survival Solution | 688 | 2 | Ν | |
| ABV for Survival | | _ | | |
| 144 ABV Survival | 690 | 3 | Ν | |
| Amount of data for Survival | | - | | |
| 145 Reliability Survival | 693 | 2 | N | |
| 146 Number of Daughters | 695 | 6 | N | |
| 147 Number of Herds | 701 | 5 | N | |
| 148 Effective Daughter Contributio | | 6 . | . N | |
| International Daughter Num | | | | NI |
| 149 Number of Countries With Dau | | - | 2 | N |
| 150 Country With Most Daughters | | 3 | A | see note 2 for list of country codes |
| 151 Number of Daughters in This (| | | 6 | N |
| 152 Country With Second Most Da | | | 3 | A see note 2 for list of country codes |
| 153 Number of Daughters in This (| | | 6 | |
| 154 Country With Third Most Daug 155 Number of Daughters in This (| | | A 6 | see note 2 for list of country codes N |
| 156 Country With Fourth Most Dau | | 735 | 3 | A see note 2 for list of country codes |
| 157 Number of Daughters in This (| 0 | | 6 | N |
| 158 Country With Fifth Most Daugh | | | A | see note 2 for list of country codes |
| 159 Number of Daughters in This (| | | 6 | N |
| ABV Analysis Details for Su | | 100 | 0 | |
| 160 Breed of ABV Analysis | 759 | 1 | А | single character breed code - see Note 1 |
| 161 Date of ABV Analysis | 760 | 8 | Ň | yyyymmdd |
| 162 Source of ABV Analysis | 768 | 1 | A | A = ABV, I = ABV(i) |
| 163 Proof publishable | 769 | 1 | A | P = publishable, U = unpublishable |
| 164 Foreign proof contribution | 770 | 1 | A | A = Aus only, I = International only, B = both |
| ABV for Calving Ease | | | | , , , , , , , , , , , , , , , , , , , |
| 165 ABV Calving Ease | 771 | 3 | Ν | |
| Amount of data for Calving | Ease | | | |
| 166 Reliability Calving Ease | 774 | 2 | Ν | |
| 167 Number of Calvings | 776 | 6 | Ν | |
| 168 Number of Herds | 782 | 5 | Ν | |
| 169 Effective Calvings | 787 | 6 | Ν | |
| International Daughter Num | | | | |
| 170 Number of Countries With Dat | | | 2 | N |
| 171 Country With Most Daughters | | 3 | A | see note 2 for list of country codes |
| 172 Number of Daughters in This (| | | 6 | N |
| 173 Country With Second Most Da | | | 3 | A see note 2 for list of country codes |
| 174 Number of Daughters in This (| | | 6 | N |
| | 1.1 | | | |
| 175 Country With Third Most Daug | | | A | see note 2 for list of country codes |
| 176 Number of Daughters in This | Country | 816 | 6 | N |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau | Country Ighters | 816 822 | 6 3 | N A see note 2 for list of country codes |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (| Country ighters Country | 816 822 825 | 6 3 6 | N A see note 2 for list of country codes N |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daugh | Country Ighters Country Inters831 | 816 822 825 3 | 6 3 6 A | N A see note 2 for list of country codes N see note 2 for list of country codes |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daugh 180 Number of Daughters in This (| Country ighters Country nters831 Country | 816 822 825 3 834 | 6 3 6 | N A see note 2 for list of country codes N |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daughters) 180 Number of Daughters in This (180 ABV Analysis Details for Caushters) | Country Ighters Country Inters831 Country | 816 822 825 3 834 ise | 6 3 6 A 6 | N A see note 2 for list of country codes N see note 2 for list of country codes N |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daughters) 180 Number of Daughters in This (180 ABV Analysis Details for Can 181 Breed of ABV Analysis | Country Ighters Country Iters831 Country Iving Ea 840 | 816 822 825 3 834 ase 1 | 6 3 6 A 6 | N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daughters) 180 Number of Daughters in This (180 ABV Analysis Details for Cau 181 Breed of ABV Analysis 182 Date of ABV Analysis | Country Ighters Country Inters831 Country Iving Ea 840 841 | 816 822 825 3 834 ise 1 8 | 6 3 6 A 6 N | N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daughters) 180 Number of Daughters in This (180 ABV Analysis Details for Cau 181 Breed of ABV Analysis 182 Date of ABV Analysis 183 Source of ABV Analysis | Country Ighters Country Inters831 Country Iving Ea 840 841 849 | 816 822 825 3 834 ise 1 8 1 | 6 3 6 A 6 N A | N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) |
| 176 Number of Daughters in This (177 Country With Fourth Most Dau 178 Number of Daughters in This (179 Country With Fifth Most Daughters) 180 Number of Daughters in This (180 ABV Analysis Details for Cau 181 Breed of ABV Analysis 182 Date of ABV Analysis | Country Ighters Country Inters831 Country Iving Ea 840 841 | 816 822 825 3 834 ise 1 8 | 6 3 6 A 6 N | N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd |

| ABV for Somatic Cell Count 186 ABV Somatic Cell Count 852 3 | Ν | |
|---|--|---|
| | IN | |
| Amount of data for Somatic Cell Count | NI | |
| 187 Reliability Somatic Cell Count 855 2 | N | |
| 188 Number of Daughters 857 6 | N | |
| 189 Number of Herds 863 5 | N | |
| 190 Effective Daughter Contribution 8686 | N | |
| International Daughter Numbers for Soma | | |
| 191 Number of Countries With Daughters 874 | 2 | Ν |
| 192 Country With Most Daughters8763 | A | see note 2 for list of country codes |
| 193 Number of Daughters in This Country 879 | 6 | Ν |
| 194 Country With Second Most Daughters 885 | 3 | A see note 2 for list of country codes |
| 195 Number of Daughters in This Country 888 | 6 | Ν |
| 196 Country With Third Most Daughters894 3 | А | see note 2 for list of country codes |
| 197 Number of Daughters in This Country 897 | 6 | N |
| 198 Country With Fourth Most Daughters 903 | 3 | A see note 2 for list of country codes |
| 199 Number of Daughters in This Country 906 | 6 | N |
| 200 Country With Fifth Most Daughters912 3 | А | see note 2 for list of country codes |
| 201 Number of Daughters in This Country 915 | 6 | Ν |
| ABV Analysis Details for Somatic Cell Co | | |
| 202 Breed of ABV Analysis 921 1 | A | single character breed code - see Note 1 |
| 203 Date of ABV Analysis 922 8 | Ň | yyyymmdd |
| 204 Source of ABV Analysis 930 1 | A | A = ABV, I = ABV(i) |
| 205 Proof publishable 931 1 | A | P = publishable, U = unpublishable |
| 206 Foreign proof contribution 932 1 | A | A = Aus only, I = International only, B = both |
| ABV for Daughter Fertility | Л | A = Aus only, I = international only, D = both |
| 207 ABV Daughter Fertility 933 3 | Ν | |
| Amount of data for Daughter Fertility | IN | |
| | Ν | |
| 208 Reliability Daughter Fertility9362209 Number of Daughters9386 | N | |
| | | |
| | | |
| 210 Number of Herds 944 5 | Ν | |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496 | N N | |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug | N N hter Fert | |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955 | N N hter Fert 2 | Ň |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters9573 | N N hter Fert 2 A | N see note 2 for list of country codes |
| 210 Number of Herds 944 5 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 | N N hter Fert 2 A 6 | Ň see note 2 for list of country codes N |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 | N N hter Fert 2 A 6 3 | N see note 2 for list of country codes N A see note 2 for list of country codes |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 | N N hter Fert 2 A 6 3 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters9573214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Third Most Daughters9753 | N N hter Fert 2 A 6 3 6 A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 | N N hter Fert 2 A 6 3 6 A 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 219 Country With Fourth Most Daughters | N N 2 A 6 3 6 A 6 3 3 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 219 Country With Fourth Most Daughters 984 220 Number of Daughters in This Country 987 | N N hter Fert 2 A 6 3 6 3 6 3 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 219 Country With Fourth Most Daughters 984 220 Number of Daughters in This Country 987 221 Country With Fifth Most Daughters993 | N N hter Fert 2 A 6 3 6 3 6 3 6 A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
| 210 Number of Herds 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 219 Country With Fourth Most Daughters 984 220 Number of Daughters in This Country 987 221 Country With Fifth Most Daughters993 3 222 Number of Daughters in This Country 996 | N Ner Fert 2 A 6 3 6 A 6 3 6 A 6 A 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N |
| 210 Number of Herds 944 5 211 Effective Daughter Contribution 949 6 International Daughter Numbers for Daug 212 Number of Countries With Daughters 955 213 Country With Most Daughters 957 3 214 Number of Daughters in This Country 960 215 Country With Second Most Daughters 966 216 Number of Daughters in This Country 969 217 Country With Third Most Daughters975 3 218 Number of Daughters in This Country 978 219 Country With Fourth Most Daughters 984 220 Number of Daughters in This Country 987 221 Country With Fifth Most Daughters993 3 222 Number of Daughters in This Country 996 ABV Analysis Details for Daughter Fertilit | N Ner Fert 2 A 6 3 6 A 6 3 6 A 6 A 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Third Most Daughters9753218 Number of Daughters in This Country978219 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223223 Breed of ABV Analysis10021 | N N 2 A 6 3 6 A 6 3 6 4 5 7 8 4 8 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Third Most Daughters9753218 Number of Daughters in This Country978219 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223224 Date of ABV Analysis10021224 Date of ABV Analysis10038 | N N 2 A 6 3 6 A 6 3 6 4 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Third Most Daughters9753218 Number of Daughters in This Country978219 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223223 Breed of ABV Analysis10021 | N N 2 A 6 3 6 A 6 3 6 4 5 7 8 4 8 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N see note 2 for list of country codes N see note 2 for list of country codes N |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Second Most Daughters9753218 Number of Daughters in This Country978219 Country With Third Most Daughters984220 Number of Daughters in This Country987221 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223223 Breed of ABV Analysis10021224 Date of ABV Analysis10038225 Source of ABV Analysis10111226 Proof publishable10121 | N N 2 A 6 3 6 A 6 3 6 4 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) P = publishable, U = unpublishable |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Second Most Daughters9753218 Number of Daughters in This Country978219 Country With Third Most Daughters9753218 Number of Daughters in This Country984220 Number of Daughters in This Country987221 Country With Fourth Most Daughters9933222 Number of Daughters in This Country987223 Breed of ABV Analysis10021224 Date of ABV Analysis10038225 Source of ABV Analysis10111 | N Nter Fert 2 A 6 3 6 A 6 3 6 4 8 0 8 A 8 N A N A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Second Most Daughters9753218 Number of Daughters in This Country978219 Country With Third Most Daughters984220 Number of Daughters in This Country987221 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223223 Breed of ABV Analysis10021224 Date of ABV Analysis10038225 Source of ABV Analysis10111226 Proof publishable10121 | N Ner Fert 2 A 6 3 6 3 6 3 6 4 6 8 9 8 N A A A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) P = publishable, U = unpublishable |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Second Most Daughters9753218 Number of Daughters in This Country978219 Country With Third Most Daughters984220 Number of Daughters in This Country987221 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertility223223 Breed of ABV Analysis10021224 Date of ABV Analysis10038225 Source of ABV Analysis10111226 Proof publishable10121227 Foreign proof contribution10131 | N Ner Fert 2 A 6 3 6 3 6 3 6 4 6 8 9 8 N A A A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) P = publishable, U = unpublishable |
| 210 Number of Herds9445211 Effective Daughter Contribution 9496International Daughter Numbers for Daug212 Number of Countries With Daughters955213 Country With Most Daughters957214 Number of Daughters in This Country960215 Country With Second Most Daughters966216 Number of Daughters in This Country969217 Country With Second Most Daughters9753218 Number of Daughters in This Country978219 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fourth Most Daughters984220 Number of Daughters in This Country987221 Country With Fifth Most Daughters9933222 Number of Daughters in This Country996ABV Analysis Details for Daughter Fertilit223 Breed of ABV Analysis1002224 Date of ABV Analysis1003225 Source of ABV Analysis1011226 Proof publishable10121227 Foreign proof contribution10131ABV and Reliability for Liveweight | N N Pter Fert 2 A 6 3 6 A 6 3 6 A 6 8 A 6 N A A A A A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd A = ABV, I = ABV(i) P = publishable, U = unpublishable |

ABV Analysis Details for Liveweight

| 230 Breed of ABV Analysis | 1019 | 1 | А | single character breed code - see Note 1 |
|--------------------------------|------|---|---|--|
| 231 Date of ABV Analysis | 1020 | 8 | Ň | yyyymmdd |
| 232 Source of ABV Analysis | 1028 | 1 | A | A = ABV, I = ABV(i) |
| 233 Proof publishable | 1029 | 1 | А | P = publishable, U = unpublishable |
| 234 Foreign proof contribution | 1030 | 1 | А | A = Aus only, I = International only, B = both |
| | | | | • |

RECORD LENGTH = 1030 bytes

March 2015

APPENDIX E Formats discontinued from 1st

The following formats have been replaced by later version formats as from 1st March 2015.

| Format | Data Record for discontinued formats | Versio n | Page | Date of Update |
|--------|---|-------------|------|-------------------|
| 201 | Bull ABVs for All Traits | 4 | E-4 | |
| 202 | Cow ABVs for All Traits | 1 | E-7 | |
| 211 | Cow ABVs for Production Traits | 2 | E-9 | |
| 212 | Herd Mean ABVs for Production Traits | 2 | E-11 | |
| 251 | Bull ABVs for All Traits (extended file)* | 5* | E-13 | |
| 261 | Cow ABVs for All Traits (extended file)# | 1 | | |

* versions 2, 3 & 4 of dif251 have never been published

versions 1 of dif261 has never been published

Summary of differences between Versions of formats

DIF201 V5

- Field 17 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)
- Field 18 APR reliability replaced with BPI reliability
- Field 85 Introduction of the Health Weighted Index (HWI)
- Field 86 Reliability for HWI
- Field 87 Introduction of the Sustainability Index (SI)
- Field 88 Reliability for SI
- Introduction of the ABV Residual Survival Field 89
- Field 90 Reliability for Residual Survival
- Field 91 Introduction of the ABV Feed Efficiency
- Reliability for Feed Efficieny Field 92

DIF202 V2

- Field 21 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)
- Field 22 APR reliability replaced with BPI reliability
- Field 74 Introduction of the Health Weighted Index (HWI)
- Field 75 Reliability for HWI
- Field 76 Introduction of the Sustainability Index (SI)
- Field 77 Reliability for SI
- Introduction of the ABV Residual Survival Field 78
- Field 79 Reliability for Residual Survival
- Field 80 Introduction of the ABV Feed Efficiency
- Field 81 Reliability for Feed Efficiency

DIF211 V3

Field 20 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)

- Field 21 APR reliability replaced with BPI reliability
- Field 30 Rank in Australia on APR has been replaced by the Rank in Australia on BPI
- Field 32 Introduction of the Health Weighted Index (HWI)
- Field 33 Reliability for HWI
- Field 34 Introduction of the Sustainability Index (SI)
- Field 35 Reliability for SI
- Field 36 Introduction of the Rank in Australia on HWI
- Field 36 Introduction of the Rank in Australia on SI

DIF212 V3

- Field 11 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)
- Field 20 Introduction of the Health Weighted Index (HWI)
- Field 21 Introduction of the Sustainability Index (SI)
- Field 22 Rank of herd on the Health Weighted Index (HWI)
- Field 23 Rank of herd on the Sustainability Index (SI)

DIF251 V6

Note V2, V3, V4 were never published

- Field 23 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)
- Field 24 APR reliability replaced with BPI reliability
- Field 30 Survival Index has been replaced by Residual Survival
- Field 32 Liveweight has been replaced by Feed Efficiency
- Field 34 Inclusion of Mammary System
- Field 35 Inclusion of Overall Type
- Field 36 Inclusion of Udder depth
- Field 37 Inclusion of Pin Set
- With the above inclusions all other fields are pushed back 4 fields and 16 characters
- Field 349 Introduction of the Health Weighted Index (HWI)
- Field 350 Reliability for HWI
- Field 351 Introduction of the Sustainability Index (SI)
- Field 352 Reliability for SI
- Field 353 Introduction of the ABV Residual Survival
- Field 354 Reliability for Residual Survival
- Field 355 Introduction of the ABV Feed Efficiency
- Field 356 Reliability for Feed Efficiency

DIF261 V2 (DataGene Internal Use Only)

Note V1 was never published

Note V2 based off vJS

- Field 10 Updated definition for Genetics Codes
- Field 29 Australian Profit Ranking (APR) has been replaced by the new Balanced Performance Index (BPI)
- Field 30 APR reliability replaced with BPI reliability
- Field 127 Introduction of the Health Weighted Index (HWI)
- Field 128 Reliability for HWI
- Field 129 Introduction of the Sustainability Index (SI)
- Field 130 Reliability for SI

- Field 131 Introduction of the ABV Residual Survival
- Field 132 Reliability for Residual Survival
- Field 133 Introduction of the ABV Feed Efficiency
- Field 134 Reliability for Feed Efficieny
- Field 135 Inclusion of Rank in Australia on HWI
- Field 136 Inclusion of Rank in Australia on SI

Data Format 201 V4 Bull ABVs for All Traits

| Fiel No. | d Field Name | Start Column | | n Numeric /Alpha | Comments |
|----------------------------------|--|---|--|---------------------------------------|---|
| 1 2 | Record Type Record Version Number Bull Identity | 1 4 | 3 1 | N A | Value = 201 Value = 4 |
| 3 4 5 | National ID | 5 14 26 | 9 12 7 | A A A | See Note 3 If NASIS If NASIS |
| 6 7 8 9 | Country Code Herdbook Number Name Genetic Codes | 33 36 48 88 | 3 12 40 8x3 | A A A A | See Note 2 See Note 2 |
| 10 11 | Bull Details Date of Birth Sire National ID | 112 120 | 8 9 | N A | Up to 8 three-character codes (see note 10) yyyymmdd see Note 3 |
| 13 | Dam National ID MGS National ID ABV Analysis Details | 129 138 | 9 9 | A A | see Note 3 see Note 3 |
| 15 | Breed of ABV Analysis Date of ABV Analysis Source of ABV Analysis | 147 148 156 | 1 8 1 | A N A | single character breed code - see Note 1 yyyymmdd A = ABV, I = prod. + conf. ABV(i), P = production ABV(i) only, C = conformation ABV(i) only |
| | Australian Profit Ranking (A Australian Profit Ranking Reliability APR ABVs for Production Traits | A PR) 157 161 | 4 2 | N N | |
| 19 20 21 22 | Australian Selection Index Protein Protein Percentage Milk | 163 167 171 176 | 4 4 5 5 | N N N | Two decimal places (eg, -0.12) |
| 23 24 | Fat Fat Percentage Amount of data for Product | 181 185 i on Trait | 4 5 : s | N N | Two decimal places (eg, -0.12) |
| 26 27 | Reliability Number of Daughters Number of Herds Number in Herd - most Daugh | 190 192 198 nters203 | 2 6 5 4 | N N N | |
| | Number in Herd - 2nd most D | aughters 211 | 207 3 | 4 N | N % of daughters with < 4 test days in 1 st lactation |
| 33 34 35 36 37 38 | | 214 217 220 223 226 229 232 235 238 241 244 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | N N N N N N N N N N N N N N N N N N N | |

| 42 Chest Width 247 3 N 43 Rump Length 250 3 N 44 Pin Width 253 3 N 45 Pin Set 256 3 N 46 Foot Angle 259 3 N 47 Heel Depth 262 3 N 48 Rear Set of Leg 265 3 N 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment Height 277 3 N 52 Rear Attachment Width 280 3 N 53 Rear Attachment Rear (new trait)289 3 N 54 Centre Ligament 286 3 N 55 Teat Placement Rear (new trait)289 3 N 56 Reliability 298 2 N 57 Teat Length 298 2 N 60 Number of Daughters 300 5 N | |
|--|----------------|
| 43 Rump Length 250 3 N 44 Pin Width 253 3 N 45 Pin Set 256 3 N 46 Foot Angle 259 3 N 47 Heel Depth 262 3 N 48 Rear Set of Leg 265 3 N 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment Height 277 3 N 52 Rear Attachment Width 280 3 N 53 Rear Attachment Rear (new trait)289 3 N 55 Teat Placement Rear (new trait)289 3 N 56 Teat Length 292 3 N 50 Number of Daughters 300 6 N 60 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 61 Number of Herds 321 3 N | |
| 44 Pin Width 253 3 N 45 Pin Set 256 3 N 46 Foot Angle 259 3 N 47 Heel Depth 262 3 N 48 Rear Set of Leg 265 3 N 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment Height 277 3 N 52 Rear Attachment Width 280 3 N 53 Rear Attachment Fore 286 3 N 55 Teat Placement Fore 286 3 N 56 Teat Placement Fore 286 3 N 57 Teat Length 292 3 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N 62 ABV Milking Speed 311 3 N 63 ABV Calvapiter Fatility 73 N | |
| 45 Pin Set 256 3 N 46 Foot Angle 259 3 N 47 Heel Depth 262 3 N 48 Rear Set of Leg 265 3 N 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 55 Teat Placement Fore 286 3 N 56 Teat Placement Rear (new trait)289 3 N 57 Teat Length 292 3 N 56 Teat Length 298 2 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 62 Reliability Ovrkability Traits 320 2 | |
| 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Length 292 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 63 ABV Temperament 314 3 N 64 ABV Likability Traits 320 2 N 65 Reliability Workability Traits 320 2 N 66 Number of Herds 328< | |
| 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Length 292 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 63 ABV Temperament 314 3 N 64 ABV Likability Traits 320 2 N 65 Reliability Workability Traits 320 2 N 66 Number of Herds 328< | |
| 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Length 292 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 63 ABV Temperament 314 3 N 64 ABV Likability Traits 320 2 N 65 Reliability Workability Traits 320 2 N 66 Number of Herds 328< | |
| 49 Rear Leg Rear View 268 3 N 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Length 292 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 320 2 N 63 ABV Temperament 314 3 N 64 ABV Likability Traits 320 2 N 65 Reliability Workability Traits 320 2 N 66 Number of Herds 328< | |
| 50 Udder Depth 271 3 N 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Rear (new trait)289 3 N 56 Teat Placement Rear (new trait)289 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 58 Condition Score 295 3 N 50 Reliability 292 3 N 60 Number of Daughters 300 6 N 61 Number of Daughters 306 5 N ABV for Workability Traits 20 2 N 64 ABV Hikability 317 3 N 70 Number of Daughters 322 6 N 67 Number of Herds 328 5 | |
| 51 Fore Attachment 274 3 N 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Placement Rear (new trait)289 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 59 Reliability 298 2 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 311 3 N 62 ABV Milking Speed 311 3 N 63 ABV Temperament 314 3 N 64 ABV Likability Traits 320 2 N 65 Reliability for Survival 333 3 N 67 Number of Herds 328 <td></td> | |
| 52 Rear Attachment Height 277 3 N 53 Rear Attachment Width 280 3 N 54 Centre Ligament 283 3 N 55 Teat Placement Fore 286 3 N 56 Teat Placement Rear (new trait)289 3 N 57 Teat Length 292 3 N 58 Condition Score 295 3 N 58 Condition Score 295 3 N 59 Reliability 298 2 N 60 Number of Daughters 300 6 N 61 Number of Herds 306 5 N ABV for Workability Traits 306 5 N 63 ABV Temperament 314 3 N 64 ABV Likability 317 3 N 65 Reliability Workability Traits 320 2 N 66 Number of Daughters 322 6 N 70 Number of Bards 349 <td></td> | |
| 57Teat Length2923N58Condition Score2953NAmount of data for Conformation Traits (average of59Reliability2982N60Number of Daughters3006N61Number of Herds3065NABVs for Workability Traits62ABV Milking Speed3113N63ABV Temperament3143N64ABV Likability3173NAmount of data for Workability Traits65Reliability Workability Traits6665Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Calving Ease3383N70ABV for Calving Ease3436N71Reliability Calving Ease3436N72Number of Herds3495NABV for Cell Count3572N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Herds3655NABV for Daughter Fertility3703N77< | |
| 57Teat Length2923N58Condition Score2953NAmount of data for Conformation Traits (average of59Reliability2982N60Number of Daughters3006N61Number of Herds3065NABVs for Workability Traits62ABV Milking Speed3113N63ABV Temperament3143N64ABV Likability3173NAmount of data for Workability Traits65Reliability Workability Traits6665Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Calving Ease3383N70ABV for Calving Ease3436N71Reliability Calving Ease3436N72Number of Herds3495NABV for Cell Count3572N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Herds3655NABV for Daughter Fertility3703N77< | |
| 57Teat Length2923N58Condition Score2953NAmount of data for Conformation Traits (average of59Reliability2982N60Number of Daughters3006N61Number of Herds3065NABVs for Workability Traits62ABV Milking Speed3113N63ABV Temperament3143N64ABV Likability3173NAmount of data for Workability Traits65Reliability Workability Traits6665Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Calving Ease3383N70ABV for Calving Ease3436N71Reliability Calving Ease3436N72Number of Herds3495NABV for Cell Count3572N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Herds3655NABV for Daughter Fertility3703N77< | |
| 57Teat Length2923N58Condition Score2953NAmount of data for Conformation Traits (average of59Reliability2982N60Number of Daughters3006N61Number of Herds3065NABVs for Workability Traits62ABV Milking Speed3113N63ABV Temperament3143N64ABV Likability3173NAmount of data for Workability Traits65Reliability Workability Traits6665Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Calving Ease3383N70ABV for Calving Ease3436N71Reliability Calving Ease3436N72Number of Herds3495NABV for Cell Count3572N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Herds3655NABV for Daughter Fertility3703N77< | |
| 58 Condition Score 295 3 N Amount of data for Conformation Traits (average of Reliability 298 2 N 60 Number of Daughters 300 6 N 61 Number of Daughters 306 5 N 62 ABV for Workability Traits 306 5 N 62 ABV for Workability Traits 311 3 N 63 ABV Temperament 314 3 N 64 ABV Likability 317 3 N 65 Reliability Workability Traits 320 2 N 66 Number of Daughters 322 6 N 67 Number of Herds 328 5 N 68 ABV survival 333 3 N 68 ABV calving Ease 338 3 N 70 ABV Calving Ease 341 2 N 71 Reliability Calving Ease 341 2 N </td <td></td> | |
| Amount of data for Conformation Traits (average of59Reliability 298 2N60Number of Daughters 300 6N61Number of Herds 306 5NABVs for Workability Traits62ABV Milking Speed 311 3N63ABV Temperament 314 3N64ABV Likability 317 3NAmount of data for Workability Traits65Reliability Workability Traits 320 2N66Number of Daughters 322 6N67Number of Daughters 322 6N68ABV and Reliability for Survival 333 3N69Reliability Survival 333 2NABV for Calving Ease 338 3N70ABV Calving Ease 341 2N71Reliability Calving Ease 343 6N73Number of Herds 349 5NABV for Cell Count 357 2N74ABV Somatic Cell Count 357 2N75Reliability Cell Count 355 5N76Number of Herds 365 5N77Number of Daughter Fertility 373 2N78ABV for Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N70Number of Daughters 375 6 </td <td></td> | |
| 59Reliability2982N60Number of Daughters 300 6N61Number of Herds 306 5NABVs for Workability Traits 311 3N62ABV Temperament 314 3N63ABV Temperament 314 3N64ABV Likability 317 3NAmount of data for Workability Traits 320 2N65Reliability Workability Traits 322 6N67Number of Daughters 322 6N68ABV Survival 333 3N69Reliability Survival 336 2NABV for Calving Ease 338 3N70ABV Calving Ease 343 6N71Reliability Calving Ease 343 6N72Number of Calvings 343 6N73Number of Herds 349 5NABV for Cell Count72NN74ABV Somatic Cell Count 357 2N75Reliability Cell Count 357 2N76Number of Herds 365 5NABV for Daughter Fertility 373 2N77Number of Herds 381 5N78ABV Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N79Reliab | |
| 59Reliability2982N60Number of Daughters 300 6N61Number of Herds 306 5NABVs for Workability Traits 311 3N62ABV Temperament 314 3N63ABV Temperament 314 3N64ABV Likability 317 3NAmount of data for Workability Traits 320 2N65Reliability Workability Traits 322 6N67Number of Daughters 322 6N68ABV Survival 333 3N69Reliability Survival 336 2NABV for Calving Ease 338 3N70ABV Calving Ease 343 6N71Reliability Calving Ease 343 6N72Number of Calvings 343 6N73Number of Herds 349 5NABV for Cell Count72NN74ABV Somatic Cell Count 357 2N75Reliability Cell Count 357 2N76Number of Herds 365 5NABV for Daughter Fertility 373 2N77Number of Herds 381 5N78ABV Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N79Reliab | of key traits) |
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| ABVs for Workability Traits62ABV Milking Speed 311 3N63ABV Temperament 314 3N64ABV Likability 317 3NAmount of data for Workability Traits 317 3N65Reliability Workability Traits 320 2N66Number of Daughters 322 6N67Number of Herds 328 5NABV and Reliability for Survival 333 3N69Reliability Survival 336 2NABV for Calving Ease 338 3N70ABV Calving Ease 343 6N71Reliability Calving Ease 341 2N72Number of Calvings 343 6N73Number of Herds 349 5NABV for Cell Count 354 3N74ABV Somatic Cell Count 357 2N75Reliability Cell Count 357 2N76Number of Daughters 365 5NABV for Daughter Fertility 370 3N79Reliability Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N79Reliability Daughter Fertility 373 2N79Reliability Daughter Fertility 373 <td></td> | |
| 62ABV Milking Speed 311 3 N63ABV Temperament 314 3 N64ABV Likability 317 3 NAmount of data for Workability Traits 317 3 N65Reliability Workability Traits 320 2 N66Number of Daughters 322 6 N67Number of Herds 328 5 NABV and Reliability for Survival 333 3 N68ABV Survival 333 2 NABV for Calving Ease 338 3 N70ABV for Calving Ease 343 6 N71Reliability Calving Ease 341 2 N72Number of Calvings 343 6 N73Number of Herds 349 5 NABV for Cell Count 354 3 N74ABV Somatic Cell Count 357 2 N75Reliability Cell Count 357 2 N76Number of Daughters 365 5 NABV for Daughter Fertility 370 3 N79Reliability Daughter Fertility 373 2 N79Reliability Daughter Fertility 375 6 <t< td=""><td></td></t<> | |
| 63ABV Temperament 314 3 N64ABV Likability 317 3 NAmount of data for Workability Traits 5 Reliability Workability Traits 320 2 N65Reliability Workability Traits 320 2 N66Number of Daughters 322 6 N67Number of Herds 328 5 NABV and Reliability for Survival 333 3 N68ABV Survival 333 3 N69Reliability Survival 336 2 NABV for Calving Ease 338 3 N70ABV Calving Ease 341 2 N71Reliability Calving Ease 341 2 N72Number of Calvings 343 6 N73Number of Cell Count 354 3 N74ABV Somatic Cell Count 357 2 N75Reliability Cell Count 357 2 N76Number of Daughters 359 6 N77Number of Herds 365 5 NABV for Daughter Fertility 373 2 N79Reliability Daughter Fertility 373 2 N80Number of Herds 381 5 NABV for Liveweight 386 3 NABU for Liveweight 389 2 N | |
| 64ABV Likability3173NAmount of data for Workability Traits3202N65Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3333N68ABV Survival3362N68ABV Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Survival3362N69Reliability Calving Ease3383N70ABV Calving Ease3412N71Reliability Calving Ease3412N72Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter S3556N81Number of Herds3815NABV for Liveweight3 | |
| Amount of data for Workability Traits65Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3333N68ABV Survival3333N69Reliability Survival3362NABV for Calving Ease3383N70ABV Calving Ease3383N71Reliability Calving Ease3412N72Number of data for Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughter S3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter S3756N81Number of Herds3815NABV for Liveweight3863NABV for Liveweight3892N | |
| 65Reliability Workability Traits3202N66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3333N68ABV Survival3362N68ABV Survival3362N69Reliability Survival3362N69Reliability Survival3362N69Reliability Survival3362N60ABV for Calving Ease3383N70ABV Calving Ease3436N71Reliability Calving Ease3436N72Number of Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Herds3815NABV for Liveweight3863NABU for Liveweight3892N | |
| 66Number of Daughters3226N67Number of Herds3285NABV and Reliability for Survival3333N68ABV Survival3362NABV for Calving Ease3383N70ABV Calving Ease3383N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Calvings3436N74ABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter S3756N81Number of Herds3815NABV for Liveweight3863NABU for Liveweight3892N | |
| 67Number of Herds3285NABV and Reliability for Survival3333N68ABV Survival3332N69Reliability Survival3362NABV for Calving Ease3383N70ABV Calving Ease3383N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Calvings3436N74ABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863NABU for Liveweight3892N | |
| ABV and Reliability for Survival68ABV Survival3333N69Reliability Survival3362NABV for Calving Ease3383N70ABV Calving Ease3383N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Calvings3436N74ABV for Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3815N81Number of Herds3815N82ABV for Liveweight3863N83Reliability Liveweight3892N | |
| 68ABV Survival3333N69Reliability Survival3362NABV for Calving Ease3383N70ABV Calving Ease3383NAmount of data for Calving Ease3412N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Calvings3436N74ABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight8863N83Reliability Liveweight3892N | |
| 69Reliability Survival ABV for Calving Ease3362N70ABV Calving Ease3383N70ABV Calving Ease3383N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3815N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| ABV for Calving Ease70ABV Calving Ease3383NAmount of data for Calving Ease3412N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| 70ABV Calving Ease3383NAmount of data for Calving Ease3412N71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3572N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703NAmount of data for Daughter Fertility3732N78ABV Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863NABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| Amount of data for Calving Ease71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight883N83Reliability Liveweight3892N | |
| 71Reliability Calving Ease3412N72Number of Calvings3436N73Number of Herds3495N74ABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| 72Number of Calvings3436N73Number of Herds3495N74ABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| 73Number of Herds3495NABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3703N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| ABV for Cell Count3543N74ABV Somatic Cell Count3543N75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703N78ABV Daughter Fertility3703N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight8863N82ABV Liveweight (kg)3863N83Reliability Liveweight3892N | |
| 74 ABV Somatic Cell Count 354 3 N Amount of data for Cell Count 75 Reliability Cell Count 357 2 N 76 Number of Daughters 359 6 N 77 Number of Herds 365 5 N ABV for Daughter Fertility 78 ABV Daughter Fertility 370 3 N Amount of data for Daughter Fertility 79 Reliability Daughter Fertility 373 2 N 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| Amount of data for Cell Count75Reliability Cell Count3572N76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703NABV Daughter Fertility3703NAmount of data for Daughter Fertility732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight8863N82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| 75 Reliability Cell Count 357 2 N 76 Number of Daughters 359 6 N 77 Number of Herds 365 5 N ABV for Daughter Fertility 370 3 N Amount of data for Daughter Fertility 373 2 N 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| 76Number of Daughters3596N77Number of Herds3655NABV for Daughter Fertility3703NAmount of data for Daughter Fertility3732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight3863N82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| 77 Number of Herds 365 5 N ABV for Daughter Fertility 370 3 N ABV Daughter Fertility 370 2 N Amount of data for Daughter Fertility 79 Reliability Daughter Fertility 373 2 N 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| ABV for Daughter Fertility78ABV Daughter Fertility3703NAmount of data for Daughter Fertility732N79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight8863N82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| 78 ABV Daughter Fertility 70 3 N Amount of data for Daughter Fertility 79 Reliability Daughter Fertility 373 2 N 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| Amount of data for Daughter Fertility79Reliability Daughter Fertility3732N80Number of Daughters3756N81Number of Herds3815NABV for Liveweight82ABV Liveweight (kg)3863N82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| 79 Reliability Daughter Fertility 373 2 N 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| 80 Number of Daughters 375 6 N 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| 81 Number of Herds 381 5 N ABV for Liveweight 82 ABV Liveweight (kg) 386 3 N Amount of data for Liveweight 83 Reliability Liveweight 389 2 N | |
| ABV for Liveweight82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N | |
| 82ABV Liveweight (kg)3863NAmount of data for Liveweight3892N83Reliability Liveweight3892N | |
| Amount of data for Liveweight83Reliability Liveweight3892N | |
| 83 Reliability Liveweight 389 2 N | |
| , | |
| | |
| | a-aonomico |
| 84 Genomics Evaluation 391 1 A | g=genomics |

g=genomics included, blank otherwise

RECORD LENGTH = 391 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3

Data Format 202 V1 Cow ABVs for All Traits

| Fiel No. | d Field Name | Start Column | - | n Numeric /Alpha | Comments |
|-------------|---|-----------------|----------------------------|---------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 202 |
| | Record Version Number | 4 | 1 | A | Value = 1 |
| 2 | Herd ID | - | 7 | ^ | |
| 3 | National Herd ID | 5 | 7 | A | See DIF Document Note 8 |
| Λ | Cow Identity National ID | 12 | 9 | А | See Note 3 |
| | Within-Herd Cow ID | 21 | 6 | Ň | See Note 5 |
| 0 | Herdbook ID | 21 | 0 | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | A | See Note 2 |
| 8 | Genetic Codes | 42 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| | Cow Details | | | | |
| 9 | Breed of cow | 66 | 4 | А | See Note 1 |
| 10 | Date of Birth | 70 | 8 | Ν | yyyymmdd |
| 11 | Date of Latest Calving | 78 | 8 | Ν | yyyymmdd |
| | Number of Lactations in ABV | analysis | 86 | 2 | N |
| 13 | Crossbreed | 88 | 1 | Ā | 'X' if crossbreed, otherwise space |
| | DPC Code | 89 | 1 | A | See Note 4 |
| | Pedigree details | 00 | • | 7. | |
| 15 | Sire National ID | 90 | 9 | А | see Note 3 |
| - | Dam National ID | 99 | 9 | A | see Note 3 |
| | MGS National ID | 108 | 9 | A | see Note 3 |
| ., | ABV Analysis Details | 100 | U | 7. | |
| 18 | Breed of ABV Analysis | 117 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 118 | 8 | N | yyyymmdd |
| | Source of ABV Analysis | 126 | 1 | A | A = ABV, I = ABV(i) |
| _• | Australian Profit Ranking (A | | - | | |
| 21 | Australian Profit Ranking | 127 | 4 | Ν | |
| | Reliability APR | 131 | 2 | Ν | |
| | ABVs for Production Traits | - | | | |
| 23 | Australian Selection Index | 133 | 4 | Ν | |
| 24 | Protein | 137 | 4 | Ν | |
| 25 | Protein Percentage | 141 | 5 | Ν | Two decimal places (eg, -0.12) |
| 26 | Milk | 146 | 5 | Ν | |
| 27 | Fat | 151 | 4 | Ν | |
| 28 | Fat Percentage | 155 | 5 | Ν | Two decimal places (eg, -0.12) |
| | Amount of data for Producti | | | | |
| 29 | Reliability ABVs for Conformation Trai | 160 ts | 2 | Ν | |
| 30 | Overall Type | 162 | 3 | Ν | |
| 31 | Mammary System | 165 | 3 | N | |
| 32 | | 168 | 3 | N | |
| | Stature | 171 | 3 | N | |
| | Udder Texture | 174 | 3 | N | |
| 35 | Bone Quality | 177 | 3 | N | |
| | Angularity | 180 | 3 3 3 3 3 3 | N | |
| 37 | Muzzle Width | 183 | 3 | Ň | |
| | Body Length | 186 | 3 | N | |
| | Body Depth | 189 | 3 3 | N | |
| | Loin Strength | 192 | 3 | Ν | |
| 41 | Chest Width | 195 | 3 | Ν | |
| 42 | Rump Length | 198 | 3 | Ν | |
| | | | | | |

| 43 | Pin Width | 201 | 3 | Ν | |
|-----|--------------------------------|-----|--------|------------|---------------------------------------|
| 44 | Pin Set | 204 | 3 | Ν | |
| 45 | Foot Angle | 207 | 3 | Ν | |
| 46 | Heel Depth | 210 | 3 | Ν | |
| 47 | Rear Set of Leg | 213 | 3 | Ν | |
| 48 | Rear Leg Rear View | 216 | 3 | Ν | |
| 49 | Udder Depth | 219 | 3 | Ν | |
| 50 | Fore Attachment | 222 | 3 3 | Ν | |
| 51 | Rear Attachment Height | 225 | 3 | Ν | |
| | Rear Attachment Width | 228 | 3 | Ν | |
| | Centre Ligament | 231 | 3 | N | |
| | Teat Placement Fore | 234 | 3 | N | |
| | Teat Placement Rear (new trait | | 3 | N | |
| | Teat Length | 240 | 3 | N | |
| | Condition Score | 243 | 3 | N | |
| 01 | Amount of data for Conforma | | - | | f kev traits) |
| 58 | Reliability | 246 | 2 | N | i koy traitoj |
| 00 | ABVs and Reliability for Worl | - | | | |
| 59 | ABV Milking Speed | 248 | 3 | Ν | |
| | ABV Temperament | 251 | 3 | N | |
| 61 | ABV Likability | 254 | 3 | N | |
| | Reliability Workability Traits | 257 | 2 | N | |
| 02 | ABV and Reliability for Surviv | | 2 | | |
| 63 | ABV Survival | 259 | 3 | Ν | |
| | Reliability Survival | 262 | 2 | N | |
| 01 | ABV and Reliability for Calvir | - | 2 | | |
| 65 | ABV Calving Ease | 264 | 3 | Ν | |
| | Reliability Calving Ease | 267 | 2 | N | |
| 00 | ABV and Reliability for Cell C | | 2 | | |
| 67 | ABV Somatic Cell Count | 269 | 3 | Ν | |
| | Reliability Cell Count | 272 | 2 | N | |
| 00 | ABV and Reliability for Daugh | | | | |
| 69 | ABV Daughter Fertility | 274 | 3 | Ν | |
| | Reliability Daughter Fertility | 275 | 2 | N | |
| 10 | ABV and Reliability for Livew | | 2 | | |
| 71 | ABV Liveweight (kg) | 277 | 3 | Ν | |
| | Reliability Liveweight | 280 | 2 | N | |
| | Genomic Evaluation | 200 | 4 | | |
| 73 | Genomic evaluation | 282 | 1 | А | g=genomics included, blank otherwise |
| . 0 | | -02 | • | <i>,</i> , | g generites included, plain ethol whe |
| | | | | | |

RECORD LENGTH = 382 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3

Data Format 211 V2 Cow ABVs for Production Traits

| Fiel No. | d Field Name | Start Column | | n Numeric /Alpha | Comments |
|-------------|-----------------------------------|------------------|-----|---------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 211 |
| 2 | Record Version Number Herd ID | 4 | 1 | A | Value = 2 |
| 3 | National Herd ID Cow Identity | 5 | 7 | А | See Note 8 |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | N | |
| | Herdbook ID | | | | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number Cow Details | 30 | 12 | A | See Note 2 |
| 8 | Breed of cow | 42 | 4 | А | See Note 1 |
| 9 | Date of Birth | 46 | 8 | Ν | yyyymmdd |
| | Date of Latest Calving | 54 | 8 | Ν | yyyymmdd |
| 11 | Number of Lactations in ABV | | 62 | 2 | N |
| 12 | Crossbreed | 64 | 1 | Ā | 'X' if crossbreed, otherwise space |
| | DPC Code | 65 | 1 | A | See Note 4 |
| | Pedigree details | | - | | |
| 14 | - | 66 | 9 | А | See Note 3 |
| 15 | Dam National ID | 75 | 9 | A | See Note 3 |
| 16 | MGS National ID | 84 | 9 | A | See Note 3 |
| 10 | ABV Analysis Details | 01 | Ũ | 7. | |
| 17 | - | 93 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 94 | 8 | N | yyyymmdd |
| | Source of ABV Analysis | 102 | 1 | A | A=DataGene, I=Interbull |
| | Australian Profit Ranking (/ | | | | |
| 20 | Ū (| APR | 103 | 4 | Ν |
| 21 | APR rel | iability | 107 | 2 | Ν |
| | ABVs for Production Traits | | | | |
| 22 | Australian Selection Index (A | SI)109 | 4 | Ν | |
| 23 | Protein | [´] 113 | 4 | Ν | |
| 24 | Protein Percentage | 117 | 5 | Ν | Two decimal places (eg, -0.12) |
| | Milk | 122 | 5 | Ν | 1 (0)) |
| 26 | Fat | 127 | 4 | Ν | |
| 27 | Fat Percentage | 131 | 5 | Ν | Two decimal places (eg, -0.12) |
| 28 | Reliability | 136 | 2 | Ν | |
| 29 | Rank in Australia on ASI with | | 138 | 6 | N Rank within Australia and within Breed |
| | | | | | of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |
| 30 | Rank in Australia on APR wit | hin-breed | 144 | 6 | N Rank within Australia and within Breed of ABV Analysis (field 17) for cows with Date of ABV Analysis (field 18) minus Latest Calving Date (field 10) less than 18 months, otherwise zero. |
| 31 | Genomic Evaluation | 150 | 1 | А | g = genomics included |

RECORD LENGTH = 150 bytes

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4.

Data Format 212 V2 Herd Mean ABVs for Production Traits

| Fiel No. | | Start Column | - | Numeric /Alpha | Comments |
|-------------|---------------------------------|-----------------|---|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 212 |
| 2 | Record Version Number | 4 | 1 | А | Value = 2 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Herd Details | | | | |
| 4 | DPC Code | 12 | 1 | А | See Note 4 |
| 5 | Number of cows with ABVs | 13 | 5 | Ν | |
| 6 | Number of cows in Herd Avera | ges18 | 5 | Ν | Number of straightbred cows whose latest calving date is within 30 months of the Date of ABV Analysis (field 9) |
| 7 | Age Class Code | 23 | 2 | А | See note below |
| | ABV Analysis Details | | | | |
| 8 | Breed of ABV Analysis | 25 | 1 | А | single character breed code - see Note 1 |
| 9 | Date of ABV Analysis | 26 | 8 | Ν | yyyymmdd |
| 10 | Source of ABV Analysis | 34 | 1 | A | A=DataGene, I=Interbull |
| | Herd Average ABVs for Prod | | | | |
| 11 | Australian Profit Ranking (APR | , | 6 | Ν | One decimal place (eg, -123.4) |
| 12 | Australian Selection Index (ASI | , | 6 | Ν | One decimal place (eg, -123.4) |
| 13 | Protein | 47 | 6 | Ν | One decimal place (eg, -12.4) |
| 14 | Protein Percentage | 53 | 6 | Ν | Three decimal places (eg, -0.123) |
| 15 | Milk | 60 | 7 | Ν | One decimal place (eg, -1234.5) |
| 16 | Fat | 66 | 6 | Ν | One decimal place (eg, -12.4) |
| 17 | Fat Percentage | 72 | 6 | Ν | Three decimal places (eg, -0.123) |
| 18 | Rank of Herd on APR | 78 | 6 | N | Rank within Australia and within Breed of ABV Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |
| 19 | Rank of Herd on ASI | 84 | 6 | Ν | Rank within Australia and within Breed of ABV Analysis (field 8). This rank is only for the whole herd (Age Class = 9T) otherwise zero. |

RECORD LENGTH = 89 bytes

Note : Herd mean ABVs are supplied for the following age classes (field 7) with one record per class per breed of analysis (field 8).

| Code | Class | Age at calving |
|--|--|---|
| 2J 2S 3J 3S 4J 4S 9M 9T | Junior 2 Senior 2 Junior 3 Senior 3 Junior 4 Senior 4 Mature | Up to 30 months Over 30 and up to 36 months Over 36 and up to 42 months Over 42 and up to 48 months Over 48 and up to 54 months Over 54 and up to 60 months Over 72 months All age groups combined |

Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 8, 7.

Data Format 251 V5 Bull ABVs for All Traits (extended file)

| Field | d Field Name | Stort | Longth | Numerie | Commente |
|--------------|----------------------------------|------------|------------------|---------|--|
| Field No. | d Field Name | Columr | • | /Alpha | Comments |
| 1 | Record Type | 1 | 3 | N | Value = 251 |
| | Record Version Number | 4 | 1 | А | Value = 5 |
| | Bull Identity | | | | |
| | National ID | 5 | 9 | А | See Note 3 |
| | NASIS Bull ID | 14 | 12 | A | If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | A | If NASIS |
| | Herdbook ID | | _ | | |
| 6 | Country Code | 33 | 3 | A | See Note 2 |
| 7 | Herdbook Number | 36 | 12 | A | See Note 2 |
| | International ID | 48 | 19 | A | Interbull format |
| | Name | 67 | 40 | A | Lin to O three shows stor codes (see note 40) |
| 10 | Genetic Codes | 107 | 8x3 | А | Up to 8 three-character codes (see note 10) |
| 11 | Bull Details Date of Birth | 101 | o | N | han woodd |
| | Sire National ID | 131 139 | 8 | N | yyyymmdd see Note 3 |
| | Dam National ID | 148 | 9 9 | A A | see Note 3 |
| | MGS National ID | 140 | 9 | | see Note 3 |
| | MGD National ID | 166 | 9 | A A | see Note 3 |
| | Sire International ID | 175 | 19 | A | Interbull format |
| | Dam International ID | 194 | 19 | A | Interbull format |
| | MGS International ID | 213 | 19 | A | Interbull format |
| | MGD International ID | 232 | 19 | A | Interbull format |
| 10 | International Proof Details | 202 | 10 | /\ | |
| 20 | Type of Proof | 251 | 2 | Ν | Interbull codes – see note below |
| 21 | Includes Foreign Proof | 253 | 1 | A | "Y = information from another country is incorpora |
| | included i ereigin reel | 200 | • | | in national proof, N otherwise" |
| 22 | Birth Date of First Australian D | aughter | [.] 254 | 8 | N yyyymmdd |
| | Australian Profit Ranking (A | | | | |
| 23 | Australian Profit Ranking | 262 | 4 | Ν | |
| 24 | Reliability APR | 266 | 2 | Ν | |
| | Main Components of APR | | | | |
| 25 | Protein | 268 | 4 | Ν | |
| 26 | Milk | 272 | 4 | Ν | |
| 27 | Fat | 276 | 4 | Ν | |
| 28 | Milking Speed | 280 | 4 | N | |
| 29 | Temperament | 284 | 4 | N | |
| 30 | Survival Index | 288 | 4 | N | |
| 31 | Somatic Cell Count | 292 | 4 | N | |
| | Liveweight | 296 | 4 | N | |
| 33 | Cow Fertility | 300 | 4 | Ν | |
| 24 | Components of Survival Ind | | 4 | NI | |
| | Survival | 304 | 4 | N | |
| | Likability Overall Type | 308 312 | 4 4 | N N | |
| | Overall Type Udder Depth | 312 | 4 | N | |
| | Pin Set | 320 | 4 | N | |
| 00 | Components of Liveweight | 520 | - | IN | |
| 39 | Stature | 324 | 4 | Ν | |
| | Body depth | 328 | 4 | N | |
| 41 | Chest width | 332 | 4 | N | |
| | ABVs for Production Traits | | • | | |
| 42 | Australian Selection Index | 336 | 4 | Ν | |
| - | | | | | |

| 43 | Protein | 340 | 4 | Ν | |
|----------|-------------------------------|------------|-------------|---------|--|
| 44 | Protein Percentage | 344 | 5 | Ν | "Two decimal places (eg -0.12)" |
| 45 | Milk | 349 | 5 | Ν | 1 (6) |
| 46 | Fat | 354 | 4 | Ν | |
| 47 | Fat Percentage | 358 | 5 | Ν | "Two decimal places (eg -0.12)" |
| | Amount of data for Product | | | | · · · · · · · · · · · · · · · · · · · |
| 48 | Reliability | 363 | 2 | Ν | |
| 49 | Number of Daughters | 365 | 6 | N | |
| 50 | Number of Herds | 371 | 5 | N | |
| 51 | Number of Effective Daughter | | 6 | N | |
| | Number in Herd - most Daugh | | | N | |
| | | | | 4 | Ν |
| | Number in Herd - 2nd most D | | | | |
| 54 | Records in Progress (RIP%) | 390 | 3 | Ν | % of daughters with < 4 test days in 1st |
| | latera etienel Deverbien Norm | h ana fan | . Due als s | | lactation |
| | International Daughter Num | | | | |
| 55 | Number of Countries With Da | | - | 2 | Ν |
| 56 | Country With Most Daughters | | 3 | Α | see note 2 for list of country codes |
| 57 | Number of Daughters in This | | | 6 | Ν |
| 58 | Country With Second Most Da | | | 3 | A see note 2 for list of country codes |
| 59 | Number of Daughters in This | | | 6 | Ν |
| 60 | Country With Third Most Daug | phters41 | 33 | А | see note 2 for list of country codes |
| 61 | Number of Daughters in This | Country | 416 | 6 | N |
| 62 | Country With Fourth Most Dat | | | 3 | A see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| | Country With Fifth Most Daug | | | Ă | see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| 00 | ABV Analysis Details for Pro | | | | |
| 66 | Breed of ABV Analysis | 440 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 441 | 8 | Ň | yyyymmdd |
| | Source of ABV Analysis | 449 | 1 | A | "A = ABV, I = ABV(i)" |
| | | 449 450 | 1 | | |
| | Proof publishable | | | A | "P = publishable, U = unpublishable" "A = Aug only L = International only B = bath" |
| 70 | Foreign proof contribution | 451 | 1 | A | "A = Aus only, I = International only, B = both" |
| 74 | ABVs for Conformation Trai | | 0 | NI | |
| 71 | Overall Type | 452 | 3 | N | |
| 72 | Overall Feet and Legs | 455 | 3 | N | |
| 73 | Mammary System | 458 | 3 | N | |
| 74 | Stature | 461 | 3 | N | |
| 75 | Udder Texture | 464 | 3 | Ν | |
| 76 | Bone Quality | 467 | 3 | Ν | |
| 77 | Angularity | 470 | 3 | Ν | |
| 78 | Muzzle Width | 473 | 3 | Ν | |
| 79 | Body Length | 476 | 3 | Ν | |
| 80 | Body Depth | 479 | 3 | Ν | |
| 81 | Chest Width | 482 | 3 | Ν | |
| 82 | Rump Length | 485 | 3 | Ν | |
| 83 | Pin Width | 488 | 3 | Ν | |
| 84 | Pin Set | 491 | 3 | Ň | |
| 85 | Foot Angle | 494 | 3 | N | |
| 86 | Rear Set of Leg | 497 | 3 | N | |
| 87 | Rear Leg Rear View | 500 | 3 | Ň | |
| 88 | Heel Depth | 503 | 3 | N | |
| 89 | Udder Depth | 505 506 | 3 | N | |
| 89 90 | Fore Attachment | 508 509 | | N | |
| | | | 3 | | |
| 91 | Rear Attachment Height | 512 515 | 3 | N | |
| 92 | Rear Attachment Width | 515 | 3 | N | |
| 93 | Centre Ligament | 518 | 3 | N | |
| 94 | Teat Placement Fore | 521 | 3 | N | |
| 95 | Teat Length | 524 | 3 | Ν | |
| | | | | | |

| 96 | Loin Strength | 527 | 3 3 3 | Ν |
|-----|-------------------------------|------------|-------------|----|
| 97 | Front End Height | 530 | 3 | Ν |
| 98 | Teat Placement Rear | 533 | 3 | Ν |
| | Condition Score | 536 | 3 | Ν |
| | Amount of data for Conforma | tion Trait | | |
| 100 | Reliability | 539 | 2 | Ν |
| | Number of Daughters | 541 | 6 | N |
| | Number of Herds | 547 | 5 | N |
| | Number of Effective Daughters | - | 6 | N |
| 105 | | | 0 | IN |
| 101 | Amount of data for Overall Ty | 558 | 2 | М |
| | Reliability | | 2 | N |
| | Number of Daughters | 560 | 6 | N |
| | Number of Herds | 566 | 5 | Ν |
| 107 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Mammary | | - | |
| | Reliability | 577 | 2 | Ν |
| | Number of Daughters | 579 | 6 | Ν |
| | Number of Herds | 585 | 5 | Ν |
| 111 | Number of Effective Daughters | 590 | 6 | Ν |
| | Amount of data for Stature | | | |
| 112 | Reliability | 596 | 2 | Ν |
| | Number of Daughters | 598 | 6 | Ν |
| | Number of Herds | 604 | 5 | N |
| | Number of Effective Daughters | | 6 | N |
| 110 | Amount of data for Udder Tex | | 0 | |
| 116 | Reliability | 615 | 2 | Ν |
| | Number of Daughters | 617 | 6 | N |
| | | | | |
| | Number of Herds | 623 | 5 | N |
| 119 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Bone Qua | | | |
| | Reliability | 634 | 2 | Ν |
| | Number of Daughters | 636 | 6 | Ν |
| 122 | Number of Herds | 642 | 5 | Ν |
| 123 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Angularity | У | | |
| 124 | Reliability | 653 | 2 | Ν |
| 125 | Number of Daughters | 655 | 6 | Ν |
| | Number of Herds | 661 | 5 | Ν |
| | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Muzzle W | | - | |
| 128 | Reliability | 672 | 2 | Ν |
| | Number of Daughters | 674 | 6 | N |
| | Number of Herds | 680 | 5 | N |
| | Number of Effective Daughters | | 6 | N |
| 101 | Amount of data for Body Len | | 0 | IN |
| 122 | • | • | 2 | Ν |
| | Reliability | 691 | 2 6 | |
| | Number of Daughters | 693 | | N |
| | Number of Herds | 699 | 5 | N |
| 135 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Body Dep | | - | |
| | Reliability | 710 | 2 | Ν |
| | Number of Daughters | 712 | 6 | Ν |
| | Number of Herds | 718 | 5 | Ν |
| 139 | Number of Effective Daughters | 723 | 6 | Ν |
| | Amount of data for Chest Wid | | | |
| 140 | Reliability | 729 | 2 | Ν |
| | Number of Daughters | 731 | 6 | Ν |
| | Number of Herds | 737 | 5 | N |
| | | | | |

| 143 | Number of Effective Daughters | 742 | 6 | Ν |
|-----|---|------------|--------|--------|
| | Amount of data for Rump Ler | ngth | | |
| | Reliability | 748 | 2 | Ν |
| | Number of Daughters | 750 | 6 | Ν |
| | Number of Herds | 756 | 5 | Ν |
| 147 | Number of Effective Daughters Amount of data for Pin Width | | 6 | Ν |
| 148 | Reliability | 767 | 2 | Ν |
| | Number of Daughters | 769 | 6 | N |
| | Number of Herds | 775 | 5 | N |
| | Number of Effective Daughters | | 6 | N |
| 101 | Amount of data for Pin Set | 100 | 0 | |
| 152 | Reliability | 786 | 2 | Ν |
| 153 | Number of Daughters | 788 | 6 | Ν |
| | Number of Herds | 794 | 5 | Ν |
| 155 | Number of Effective Daughters | 799 | 6 | Ν |
| | Amount of data for Foot Angl | е | | |
| 156 | Reliability | 805 | 2 | Ν |
| | Number of Daughters | 807 | 6 | Ν |
| 158 | Number of Herds | 813 | 5 | Ν |
| 159 | Number of Effective Daughters | 818 | 6 | Ν |
| | Amount of data for Rear Set of | | | |
| | Reliability | 824 | 2 | Ν |
| | Number of Daughters | 826 | 6 | Ν |
| | Number of Herds | 832 | 5 | Ν |
| 163 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Rear Leg | | | |
| | Reliability | 843 | 2 | Ν |
| | Number of Daughters | 845 | 6 | Ν |
| | Number of Herds | 851 | 5 | Ν |
| 167 | Number of Effective Daughters | | 6 | Ν |
| | Amount of data for Udder De | | • | |
| | Reliability | 862 | 2 | N |
| | Number of Daughters | 864 | 6 | N |
| | Number of Herds | 870 | 5 | N |
| 171 | Number of Effective Daughters | | 6 | Ν |
| 170 | Amount of data for Fore Attac | | 2 | NI |
| | Reliability | 881 | 2 6 | N |
| | Number of Daughters Number of Herds | 883 | 5 | N N |
| | Number of Effective Daughters | 889 804 | 6 | N |
| 175 | Amount of data for Rear Atta | | | IN |
| 176 | Reliability | 900 | 2 | Ν |
| | Number of Daughters | 902 | 6 | N |
| | Number of Herds | 908 | 5 | N |
| | Number of Effective Daughters | | 6 | N |
| 170 | Amount of data for Rear Atta | | | |
| 180 | Reliability | 919 | 2 | Ν |
| | Number of Daughters | 921 | 6 | N |
| | Number of Herds | 927 | 5 | N |
| | Number of Effective Daughters | | 6 | N |
| | Amount of data for Centre Lig | | • | •• |
| 184 | Reliability | 938 | 2 | Ν |
| | Number of Daughters | 940 | 6 | N |
| | Number of Herds | 946 | 5 | Ν |
| | Number of Effective Daughters | | 6 | N |
| | Amount of data for Teat Place | | re | |
| 188 | Reliability | 957 | 2 | Ν |

| 189 Number of Daughters | 959 | 6 | Ν | |
|---|--|---|--|---|
| 190 Number of Herds | 965 | 5 | N | |
| 191 Number of Effective Daugh | | 6 | N | |
| | | 0 | IN | |
| Amount of data for Teat L | | 0 | NI | |
| 192 Reliability | 976 | 2 | N | |
| 193 Number of Daughters | 978 | 6 | N | |
| 194 Number of Herds | 984 | 5 | Ν | |
| 195 Number of Effective Daugh | iters 989 | 6 | Ν | |
| | | | | |
| Amount of data for Loin S | Strenath | | | |
| 196 Reliability | 995 | 2 | Ν | |
| 197 Number of Daughters | 997 | 6 | N | |
| 198 Number of Herds | 1003 | 5 | N | |
| | | 6 | N | |
| 199 Number of Effective Daugh | | | IN | |
| Amount of data for Front | | | | |
| 200 Reliability | 1014 | 2 | N | |
| 201 Number of Daughters | 1016 | 6 | N | |
| 202 Number of Herds | 1022 | 5 | Ν | |
| 203 Number of Effective Daugh | ters1027 | 6 | Ν | |
| Amount of data for Teat F | Placement I | Rear | | |
| 204 Reliability | 1033 | 2 | Ν | |
| 205 Number of Daughters | 1035 | 6 | Ν | |
| 206 Number of Herds | 1041 | 5 | Ň | |
| 207 Number of Effective Daugh | | 6 | N | |
| | | 0 | IN | |
| Amount of data for Condi | | 0 | NI | |
| 208 Reliability | 1052 | 2 | N | |
| 209 Number of Daughters | 1054 | 6 | N | |
| 210 Number of Herds | 1060 | 5 | N | |
| 211 Number of Effective Daugh | iters1065 | 6 | Ν | |
| | | | | |
| International Daughter Nu | umbers for | Confo | rmatior | n Traits |
| International Daughter Nu 212 Number of Countries With | | | rmatior 2 | n Traits N |
| 212 Number of Countries With | Daughters 1 | | | Ν |
| 212 Number of Countries With 213 Country With Most Daughte | Daughters 1 ers 1073 | 071 3 | 2 A | N see note 2 for list of country codes |
| 212 Number of Countries With 213 Country With Most Daughte 214 Number of Daughters in Th | Daughters 1 ers 1073 iis Country 1 | 071 3 076 | 2 A 6 | N see note 2 for list of country codes N |
| 212 Number of Countries With 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most | Daughters 1 ers 1073 iis Country 1 Daughters? | 071 3 076 1082 | 2 A 6 3 | N see note 2 for list of country codes N A see note 2 for list of country codes |
| 212 Number of Countries With 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 | 071 3 076 1082 085 | 2 A 6 3 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N |
| 212 Number of Countries With 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 aughters109 | 071 3 076 1082 085 91 3 | 2 A 6 3 6 A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
| 212 Number of Countries With 1 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 aughters109 his Country 1 | 071 3 076 1082 085 91 3 094 | 2 A 6 3 6 A 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N |
| 212 Number of Countries With 1 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most I | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 aughters109 his Country 1 Daughters 1 | 071 3 076 1082 085 91 3 094 100 | 2 A 6 3 6 A 6 3 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes |
| 212 Number of Countries With I 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most I 220 Number of Daughters in Th | Daughters 1 ers 1073 iis Country 1 Daughters iis Country 1 aughters109 iis Country 1 Daughters 1 iis Country 1 | 071 3 076 1082 085 91 3 094 100 103 | 2 A 6 3 6 A 6 3 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N |
| 212 Number of Countries With 1 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most I 220 Number of Daughters in Th 221 Country With Fifth Most Da | Daughters 1 ers 1073 iis Country 1 Daughters iis Country 1 aughters109 iis Country 1 Daughters 1 iis Country 1 ughters110 | 071 3 076 1082 085 91 3 094 100 103 9 3 | 2 A 6 3 6 A 6 3 6 A | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
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| 212 Number of Countries With 1 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most I 220 Number of Daughters in Th 221 Country With Fifth Most Da | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 aughters109 his Country 1 Daughters 1 his Country 1 his Country 1 his Country 1 | 071 3 076 1082 085 91 3 094 100 103 9 3 112 | 2 A 6 3 6 A 6 3 6 A 6 | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes |
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| 212 Number of Countries With I 213 Country With Most Daughte 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most II 220 Number of Daughters in Th 221 Country With Fifth Most Da 222 Number of Daughters in Th 223 Breed of ABV Analysis 224 Date of ABV Analysis | Daughters 1 ers 1073 his Country 1 Daughters 1 aughters109 his Country 1 Daughters 1 his Country 1 ughters110 his Country 1 Conformat 1118 1119 | 071 3 076 082 085 094 100 103 9 3 112 ion Tra 8 | 2 A 6 3 6 A 6 3 6 A 6 A 6 N | N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd |
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| 212 Number of Countries With I 213 Country With Most Daughter 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most II 220 Number of Daughters in Th 212 Country With Fifth Most Da 222 Number of Daughters in Th 221 Country With Fifth Most Da 222 Number of Daughters in Th 223 Breed of ABV Analysis 224 Date of ABV Analysis 225 Source of ABV Analysis 226 Proof publishable 227 Foreign proof contribution ABVs for Workability Trait 228 ABV Milking Speed 229 ABV Temperament 230 ABV Likability Amount of data for Worka 231 Reliability Workability Traits | Daughters 1 ers 1073 his Country 1 Daughters his Country 1 aughters109 his Country 1 Daughters 10 his Country 1 Daughters110 his Country 1 Conformat 1118 1127 1128 1129 its 1130 1133 1136 ability Trait 5 1139 | 071 3 076 1082 085 91 3 094 100 103 9 3 112 ion Tra 1 8 1 1 1 3 3 3 3 5 2 | 2 A 6 3 6 A 6 3 6 A 6 6 A 7 A A A N N N N N N N N N N N N N | N see note 2 for list of country codes N A see note 2 for list of country codes N See note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 212 Number of Countries With I 213 Country With Most Daughter 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most I 220 Number of Daughters in Th 212 Country With Fifth Most Da 221 Country With Fifth Most Da 222 Number of Daughters in Th 223 Breed of ABV Analysis 224 Date of ABV Analysis 225 Source of ABV Analysis 226 Proof publishable 227 Foreign proof contribution ABVs for Workability Trait 228 ABV Milking Speed 229 ABV Temperament 230 ABV Likability Amount of data for Worka 231 Reliability Workability Traits 233 Number of Daughters | Daughters 1 ers 1073 his Country 1 Daughters 1 aughters 109 his Country 1 Daughters 109 his Country 1 Daughters 110 his Country 1 Daughters 110 his Country 1 Daughters 110 his Country 1 Daughters 110 his Country 1 Daughters 109 his Country 1 his Country | 071 3 076 1082 085 91 3 094 100 103 9 3 112 ion Tra 1 8 1 1 3 3 3 5 2 6 | 2A636A636A6 36A6 hits NNN NNN NNN NN | N see note 2 for list of country codes N A see note 2 for list of country codes N See note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 212 Number of Countries With I 213 Country With Most Daughter 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most Da 220 Number of Daughters in Th 210 Country With Fifth Most Da 221 Country With Fifth Most Da 222 Number of Daughters in Th 223 Breed of ABV Analysis 224 Date of ABV Analysis 225 Source of ABV Analysis 226 Proof publishable 227 Foreign proof contribution ABVs for Workability Traits 228 ABV Milking Speed 229 ABV Temperament 230 ABV Likability Amount of data for Workability Traits 233 Number of Daughters 233 Number of Herds 234 Number of Effective Daughters | Daughters 1 ers 1073 his Country 1 Daughters 1 aughters 109 his Country 1 Daughters 109 his Country 1 Daughters 110 his Country 1 Daughters 110 his Country 1 Conformat 1118 1127 1128 1129 hts 1130 1133 1136 ability Trait 5 1139 1141 1147 hters 1152 | 071 3 076 1082 085 094 100 103 9 3 112 ion Tra 1 3 3 3 5 2 6 5 6 | 2A636A636A6 iitsANAA NNN NNNN | N see note 2 for list of country codes N A see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" |
| 212 Number of Countries With I 213 Country With Most Daughter 214 Number of Daughters in Th 215 Country With Second Most 216 Number of Daughters in Th 217 Country With Third Most Da 218 Number of Daughters in Th 219 Country With Fourth Most II 220 Number of Daughters in Th 212 Country With Fifth Most Da 222 Number of Daughters in Th 221 Country With Fifth Most Da 222 Number of Daughters in Th 223 Breed of ABV Analysis 224 Date of ABV Analysis 225 Source of ABV Analysis 226 Proof publishable 227 Foreign proof contribution ABVs for Workability Trait 228 ABV Milking Speed 229 ABV Temperament 230 ABV Likability Amount of data for Worka 231 Reliability Workability Traits 233 Number of Daughters | Daughters 1 ers 1073 his Country 1 Daughters 1 is Country 1 aughters 109 his Country 1 Daughters 10 his Country 1 Daughters 110 his Country 1 Daughters 110 his Country 1 Conformat 1118 1127 1128 1129 hts 1130 1133 1136 ability Trait 5 1139 1141 1147 hters 1152 umbers for | 071 3 076 1082 085 094 100 103 9 3 112 ion Tra 1 3 3 5 2 6 5 6 Worka | 2A636A636A6 iitsANAA NNN NNNN | N see note 2 for list of country codes N A see note 2 for list of country codes N A see note 2 for list of country codes N see note 2 for list of country codes N single character breed code - see Note 1 yyyymdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" |

| 236 Country With Most Daughters 1160 3 | А | see note 2 for list of country codes |
|--|-------------|---|
| 237 Number of Daughters in This Country 1163 | 6 | N |
| 238 Country With Second Most Daughters1169 | 3 | A see note 2 for list of country codes |
| 239 Number of Daughters in This Country 1172 | 6 | N See note 2 for list of boaring boacs |
| 240 Country With Third Most Daughters1178 3 | Ă | see note 2 for list of country codes |
| 240 Country With Third Most Daughters 1770 3 241 Number of Daughters in This Country 1181 | 6 | N |
| | | |
| 242 Country With Fourth Most Daughters 1187 | 3 | A see note 2 for list of country codes |
| 243 Number of Daughters in This Country 1190 | 6 | N |
| 244 Country With Fifth Most Daughters1196 3 | A | see note 2 for list of country codes |
| 245 Number of Daughters in This Country 1199 | 6 | Ν |
| ABV Analysis Details for Workability Traits | | ala da se ana tan basa da sa da sa sa Nista d |
| 246 Breed of ABV Analysis 1205 1 | A | single character breed code - see Note 1 |
| 247 Date of ABV Analysis 1206 8 | N | yyyymmdd |
| 248 Source of ABV Analysis 1214 1 | A | "A = ABV, I = ABV(i)" |
| 249 Proof publishable12151 | Α | "P = publishable, U = unpublishable" |
| 250 Foreign proof contribution 1216 1 | А | "A = Aus only, I = International only, B = both" |
| ABV and Reliability for Survival | | |
| 251 Survival Solution12173252 Reliability Survival Solution12202 | Ν | |
| 252 Reliability Survival Solution 1220 2 | Ν | |
| 253 ABV Survival 1222 3 | Ν | |
| 254 Reliability Survival 1225 2 | Ν | |
| 255 Number of Daughters 1227 6 | Ν | |
| 256 Number of Herds 1233 5 | Ν | |
| 257 Number of Effective Daughters1238 6 | Ν | |
| International Daughter Numbers for Surviv | al | |
| 258 Number of Countries With Daughters 1244 | 2 | Ν |
| 259 Country With Most Daughters 1246 3 | А | see note 2 for list of country codes |
| 260 Number of Daughters in This Country 1249 | 6 | N |
| 261 Country With Second Most Daughters1255 | 3 | A see note 2 for list of country codes |
| 262 Number of Daughters in This Country 1258 | 6 | N |
| 263 Country With Third Most Daughters1264 3 | Ā | see note 2 for list of country codes |
| 264 Number of Daughters in This Country 1267 | 6 | N |
| 265 Country With Fourth Most Daughters 1273 | 3 | A see note 2 for list of country codes |
| 266 Number of Daughters in This Country 1276 | 6 | Ν |
| 267 Country With Fifth Most Daughters 1282 3 | Ă | see note 2 for list of country codes |
| 268 Number of Daughters in This Country 1285 | 6 | N |
| ABV Analysis Details for Survival | · · | |
| 269 Breed of ABV Analysis 1291 1 | А | single character breed code - see Note 1 |
| 270 Date of ABV Analysis 1292 8 | N | yyyymmdd |
| 271 Source of ABV Analysis 1300 1 | A | "A = ABV, I = ABV(i)" |
| 272 Proof publishable 1301 1 | A | "P = publishable, U = unpublishable" |
| 273 Foreign proof contribution 1302 1 | A | " $A = Aus only, I = International only, B = both"$ |
| ABV for Calving Ease | Λ | A = Aus only, 1 = international only, B = both |
| 274 ABV Calving Ease 1303 3 | Ν | |
| Amount of data for Calving Ease | | |
| 275 Reliability Calving Ease 1306 2 | Ν | |
| | N | |
| 276 Number of Calvings 1308 6 277 Number of Herds 1314 5 | N | |
| | | |
| 278 Number of Effective calvings 1319 6 | N a Easa | |
| International Daughter Numbers for Calvin | - | |
| 279 Number of Countries With Daughters 1325 | 2 | N |
| 280 Country With Most Daughters 1327 3 | A | see note 2 for list of country codes |
| 281 Number of Daughters in This Country 1330 | 6 | N |
| 282 Country With Second Most Daughters1336 | 3 | A see note 2 for list of country codes |
| 283 Number of Daughters in This Country 1339 | 6 | N |
| 284 Country With Third Most Daughters1345 3 | A | see note 2 for list of country codes |
| 285 Number of Daughters in This Country 1348 | 6 | N |
| 286 Country With Fourth Most Daughters 1354 | 3 | A see note 2 for list of country codes |
| | | |

| 287 | Number of Daughters in This | Country 13 | 57 | 6 | Ν |
|-----|-----------------------------------|-------------------------|--------|--------|---|
| | Country With Fifth Most Daug | | | А | see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| 200 | ABV Analysis Details for Ca | | | 0 | |
| 200 | | 1372 | | ^ | aingle character bread and a see Note 1 |
| | Breed of ABV Analysis | | 1 | A | single character breed code - see Note 1 |
| | Date of ABV Analysis | 1373 | 8 | N | yyyymmdd |
| | Source of ABV Analysis | 1381 | 1 | А | A = ABV, I = ABV(i) |
| | Proof publishable | 1382 | 1 | А | "P = publishable, U = unpublishable" |
| 294 | Foreign proof contribution | 1383 | 1 | А | "A = Aus only, I = International only, B = both" |
| | ABV for Somatic Cell Count | : | | | |
| 295 | ABV Somatic Cell Count | 1384 | 3 | Ν | |
| | Amount of data for Somatic | | | | |
| 296 | Reliability Somatic Cell Count | | 2 | Ν | |
| | Number of Daughters | 1389 | 6 | N | |
| | | | | | |
| | Number of Herds | 1395 | 5 | N | |
| 299 | Number of Effective Daughter | | 6 | N | |
| | International Daughter Num | | | | Sount |
| | Number of Countries With Da | | 06 | 2 | N |
| 301 | Country With Most Daughters | 1408 | 3 | А | see note 2 for list of country codes |
| 302 | Number of Daughters in This | Country 14 ⁻ | 11 | 6 | N |
| | Country With Second Most Da | | | 3 | A see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| | Country With Third Most Daug | | | Ă | see note 2 for list of country codes |
| | | | | | 2 |
| | Number of Daughters in This | | | 6 | N |
| | Country With Fourth Most Day | | | 3 | A see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| | Country With Fifth Most Daug | | | А | see note 2 for list of country codes |
| 310 | Number of Daughters in This | Country 14 | 47 | 6 | Ν |
| | ABV Analysis Details for So | matic Cell | Count | | |
| 311 | Breed of ABV Analysis | 1453 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 1454 | 8 | Ν | yyyymmdd |
| | Source of ABV Analysis | 1462 | 1 | A | "A = ABV, I = ABV(i)" |
| | Proof publishable | 1463 | 1 | A | " $P = publishable, U = unpublishable"$ |
| | Foreign proof contribution | 1464 | 1 | A | " $A = Aus only, I = International only, B = both"$ |
| 315 | | 1404 | I | A | A – Aus only, I – International only, B – both |
| 040 | ABV for Cow Fertility | 4 4 0 5 | 0 | N I | Description of |
| 316 | ABV Cow Fertility | 1465 | 3 | Ν | Provisional |
| - · | Amount of data for Cow Fer | | - | | |
| | Reliability Cow Fertility | 1468 | 2 | Ν | Provisional |
| | Number of Daughters | 1470 | 6 | Ν | |
| 319 | Number of Herds | 1476 | 5 | Ν | |
| 320 | Number of Effective Daughter | s1481 | 6 | Ν | |
| | International Daughter Num | | ow Fer | tilitv | |
| 321 | Number of Countries With Da | | | 2 | Ν |
| | Country With Most Daughters | | 3 | Ā | see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| | Country With Second Most Da | | | 3 | A see note 2 for list of country codes |
| | | | | 5 | |
| | Number of Daughters in This | | | 6 | N |
| | Country With Third Most Daug | | | A | see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| 328 | Country With Fourth Most Day | ughters 15 ⁻ | 16 | 3 | A see note 2 for list of country codes |
| 329 | Number of Daughters in This | Country 15 ⁻ | 19 | 6 | Ν |
| 330 | Country With Fifth Most Daug | hters1525 | 3 | А | see note 2 for list of country codes |
| | Number of Daughters in This | | | 6 | N |
| | ABV Analysis Details for Co | | | - | |
| 332 | Breed of ABV Analysis | 1534 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 1535 | 8 | N | yyyymmdd |
| | Source of ABV Analysis | 1543 | 1 | A | "A = ABV, I = ABV(i)" |
| | | 1543 | 1 | A | |
| 333 | Proof publishable | 1044 | I | Ā | "P = publishable, U = unpublishable" |
| | | | | | |

| 336 Foreign proof contribution | 1545 | 1 | А | "A = Aus only, I = International only, B = both" |
|--------------------------------|------------|---|---|--|
| ABV and Reliability for Liv | eweight | | | |
| 337 ABV Liveweight | 1546 | 3 | Ν | |
| 338 Reliability Liveweight | 1549 | 2 | Ν | |
| ABV Analysis Details for L | .iveweight | | | |
| 339 Breed of ABV Analysis | 1551 | 1 | Α | single character breed code - see Note 1 |
| 340 Date of ABV Analysis | 1552 | 8 | Ν | yyyymmdd |
| 341 Source of ABV Analysis | 1560 | 1 | Α | "A = ABV, I = ABV(i)" |
| 342 Proof publishable | 1561 | 1 | Α | "P = publishable, U = unpublishable", |
| 343 Foreign proof contribution | 1562 | 1 | Α | "A = Aus only, I = International only, B = both" |
| Genomic Evaluation | | | | |
| 344 Genomics Evaluation | 1563 | 1 | А | g=genomics included, blank otherwise |
| | | | | |

RECORD LENGTH = 1563 bytes

Type of Proof

- 00 unknown
- 11 based on first crop sampling daughters
- 12 based on first and second crop daughters
- 21 based on imported semen of proven bull (second crop daughters only)

Page F-1

APPENDIX F Formats discontinued from 1st November 2020

The following formats have been replaced by later version formats as from 1st November 2020.

| Format | Data Record for discontinued formats | Version | Page | Date of Update |
|--------|---|---------|------|-------------------|
| 112 | Calving Ease Record | 1 | F-4 | |
| 201 | Bull ABVs for All Traits | 5 | F-6 | |
| 202 | Cow ABVs for All Traits | 2 | F-9 | |
| 251 | Bull ABVs for All Traits (extended file)* | 6* | F-12 | |
| 261 | Cow ABVs for All Traits (extended file)# | 2 | F-21 | |

* versions 2, 3 & 4 of dif251 have never been published

versions 1 of dif261 has never been published

Summary of differences between Versions of formats

DIF112 V2

- Field 10 Introduction of National ID of Genetic Dam of Calf
- Field 11 Introduction of National ID of Calf
- Field 12 Introduction of MISTRO Reference No.
- Field 13 Introduction of Litter size
- Field 14 Calving Ease shifted down from 10 to accommodate Fields 10 to 13
- Field 15 Calving Code shifted down from 11 to accommodate Fields 10 to 13
- Field 16 Sex of Calf shifted down from 12 to accommodate Fields 10 to 13
- Field 16 Sex of Calf Field Length changed to 1
- Field 17 Size of Calf shifted down from 13 to accommodate Fields 10 to 13
- Field 18 Fate of Calf shifted down from 14 to accommodate Fields 10 to 13
- Field 18 Fate of Calf Field Length changed to 1

DIF201 V6

- Field 93 Introduction of the ABV for Rump
- Field 94 Introduction of the ABV for Strength
- Field 95 Introduction of the ABV for Heat Tolerance
- Field 96 Reliability for Heat Tolerance
- Field 97 Number of Daughters for Heat Tolerance
- Field 98 Number of Herds for Heat Tolerance
- Field 99 Introduction of the ABV for Gestation Length
- Field 100 Reliability for Gestation Length
- Field 101 Number of Calvings for Gestation Length
- Field 102 Number of Herds for Gestation Length
- Field 103 Introduction of the ABV for Maternal Calving
- Field 104 Reliability for Maternal Calving
- Field 105 Number of Calvings for Maternal Calving
- Field 106 Number of Herds for Maternal Calving

DIF202 V3

- Field 82 Introduction of the ABV for Rump
- Field 83 Introduction of the ABV for Strength
- Field 84 Introduction of the ABV for Heat Tolerance
- Field 85 Reliability for Heat Tolerance
- Field 86 Introduction of the ABV for Gestation Length
- Field 87 Reliability for Gestation Length
- Field 88 Introduction of the ABV for Maternal Calving
- Field 89 Reliability for Maternal Calving

DIF251 V7

Note V2, V3, V4 were never published

- Field 357 Introduction of the ABV for Rump
- Field 358 Reliability for Rump
- Field 359 Number of Daughters for Rump
- Field 360 Number of Herds for Heat Rump
- Field 361 Number of Effective Daughters for Rump
- Field 362 Introduction of the ABV for Dairy Strength
- Field 363 Reliability for Dairy Strength
- Field 364 Number of Daughters for Dairy Strength
- Field 365 Number of Herds for Dairy Strength
- Field 366 Number of Effective Daughters for Dairy Strength
- Field 367 Introduction of the ABV for Heat Tolerance
- Field 368 Reliability for Heat Tolerance
- Field 369 Number of Daughters for Heat Tolerance
- Field 370 Number of Herds for Heat Tolerance
- Field 371 Number of Effective Daughters for Heat Tolerance
- Field 372 Introduction of the ABV for Gestation Length
- Field 373 Reliability for Gestation Length
- Field 374 Number of Calvings for Gestation Length
- Field 375 Number of Herds for Gestation Length
- Field 376 Number of Effective Calvings for Gestation Length
- Field 377 Number of Countries With Daughters
- Field 378 Country With Most Daughters
- Field 379 Number of Daughters in This Country
- Field 380 Country With Second Most Daughters
- Field 381 Number of Daughters in This Country
- Field 382 Country With Third Most Daughters
- Field 383 Number of Daughters in This Country
- Field 384 Country With Fourth Most Daughters
- Field 385 Number of Daughters in This Country
- Field 386 Country With Fifth Most Daughters
- Field 387 Number of Daughters in This Country
- Field 388 Breed of ABV Analysis
- Field 389 Date of ABV Analysis
- Field 390 Source of ABV Analysis
- Field 391 Proof Publishable
- Field 392 Foreign Proof Contribution
- Field 393 Introduction of the ABV for Maternal Calving
- Field 394 Reliability for Maternal Calving
- Field 395 Number of Calvings for Maternal Calving

| Field 396 Field 397 Field 398 Field 399 Field 400 Field 401 Field 402 Field 403 Field 404 Field 405 Field 405 Field 406 Field 407 Field 408 Field 409 Field 410 Field 411 | Number of Herds for Maternal Calving Number of Effective Calvings for Maternal Calving Number of Countries With Daughters Country With Most Daughters Number of Daughters in This Country Country With Second Most Daughters Number of Daughters in This Country Country With Third Most Daughters Number of Daughters in This Country Country With Fourth Most Daughters Number of Daughters in This Country Country With Fourth Most Daughters Number of Daughters in This Country Country With Fifth Most Daughters Number of Daughters in This Country Breed of ABV Analysis Date of ABV Analysis Source of ABV Analysis |
|---|---|
| | |
| Field 412 Field 413 | Proof Publishable Foreign Proof Contribution |
| | |

DIF261 V3 (DataGene Internal Use Only)

Note V1 was never published Note V2 based off vJS

- Field 137 Introduction of the ABV for Rump
- Field 138 Introduction of the ABV for Dairy Strength
- Field 139 Introduction of the ABV for Heat Tolerance
- Field 140 Reliability for Heat Tolerance
- Field 141 Introduction of the ABV for Gestation Length
- Field 142 Reliability for Gestation Length
- Field 143 Breed of ABV Analysis
- Field 144 Date of ABV Analysis
- Field 145 Source of ABV Analysis
- Field 146 Proof Publishable
- Field 147 Foreign Proof Contribution
- Field 148 Introduction of the ABV for Maternal Calving
- Field 149 Reliability for Maternal Calving
- Field 150 Breed of ABV Analysis
- Field 151 Date of ABV Analysis
- Field 152 Source of ABV Analysis
- Field 153 Proof Publishable
- Field 154 Foreign Proof Contribution

Data Format 112 V1 Calving Ease Record

| Fiel No. | d Field Name | Start I Column | | Numeric /Alpha | Comments |
|-------------|-----------------------------|-------------------|---|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 112 |
| 2 | Record Version Number | 4 | 1 | А | Value = 1 |
| | Herd ID | | | | |
| 3 | National Herd ID | 5 | 7 | А | See Note 8 |
| | Cow Details | | | | |
| 4 | National Cow ID | 12 | 9 | А | See Note 3 |
| 5 | Within-Herd Cow ID | 21 | 6 | Ν | |
| 6 | Calving Date | 27 | 8 | Ν | yyyymmdd |
| 7 | Parity | 35 | 2 | Ν | Parity is the lactation number, if known. It is the number of lactations produced by the cow, whether recorded or otherwise. |
| 8 | Last mating date | 37 | 8 | Ν | yyyymmdd - see note below |
| 9 | National ID of Sire of Calf | 45 | 9 | А | See Note 3 |
| | Calving parameters | | | | |
| 10 | Calving Ease | 54 | 1 | А | See note below |
| 11 | Calving Code | 55 | 1 | А | 0 or N=normal calving; 1 or I=induced calving; |
| | | | | | 2 or A=aborted; 3 or L=induced lactation |
| 12 | Sex of Calf | 56 | 2 | А | See note below |
| 13 | Size of Calf | 58 | 1 | А | See note below |
| 14 | Fate of Calf | 59 | 2 | А | See note below |
| | | | | | |

RECORD LENGTH = 60 bytes

Last mating Date

This is the last mating date, or estimated conception date, prior to the calving date shown in the record.

Calving Ease

System introduced 2007

- А No difficulty
- В Slight difficulty
- С Moderate difficulty
- D High difficulty

System phased out from 2007

- 1 or X Unobserved - not OK
- 2 or K Unobserved - OK
- 3 or N Observed - no assistance
- 4 or E Observed - easy pull
- 5 or H Observed - very difficult
- 6 or S **Observed** - surgical
- 7 or M **Observed - malpresentation**

Size of Calf

- H Huge
- B Large
- N Average
- S Small
- T Tiny

Sex of Calf

- F Female
- M Male
- FF Female Twins
- MM Male Twins
- FM One Female and One Male Twin
- U Undefined

Fate of Calf

- L Live
- D Dead
- LL Live Twins
- DD Dead Twins
- LD One Live and One Dead Twin

Essential fields for DataGene are 1,2,3,4,6,9,10,11,12,13,14. Other fields are strongly recommended. Assumed sort order with all fields in ascending order: Fields 1, 2, 3, 4, 6.

Data Format 201 V5 Bull ABVs for All Traits

| Fiel No. | d Field Name | Start Columr | | Numeric /Alpha | Comments |
|-------------|---|-----------------|--------|-------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 201 |
| 2 | Record Version Number Bull Identity | 4 | 1 | A | Value = 5 |
| | National ID | 5 | 9 | А | See Note 3 |
| | NASIS Bull ID | 14 | 12 | A | If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | A | If NASIS |
| 6 | Herdbook ID Country Code | 33 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 36 | 12 | Â | See Note 2 |
| 8 | Name | 48 | 40 | A | |
| | Genetic Codes | 88 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| | Bull Details | | | | |
| | Date of Birth | 112 | 8 | Ν | yyyymmdd |
| | Sire National ID | 120 | 9 | A | see Note 3 |
| | Dam National ID | 129 | 9 | A | see Note 3 |
| 13 | MGS National ID | 138 | 9 | A | see Note 3 |
| 1/ | ABV Analysis Details Breed of ABV Analysis | 147 | 1 | А | single character breed code - see Note 1 |
| | Date of ABV Analysis | 148 | 8 | Ň | yyyymmdd |
| | Source of ABV Analysis | 156 | 1 | A | A = ABV, I = prod. + conf. ABV(i), P = |
| - | | | | | production $ABV(i)$ only, $C = conformation ABV(i)$ only |
| . – | Balanced Performance Inde | • • | | | |
| 17 | Balanced Performance Index | 157 | 4 2 | N | |
| 10 | Reliability BPI ABVs for Production Traits | 161 | Z | Ν | |
| 19 | Australian Selection Index | 163 | 4 | Ν | |
| | Protein | 167 | 4 | N | |
| 21 | Protein Percentage | 171 | 5 | Ň | Two decimal places (eg, -0.12) |
| 22 | Milk | 176 | 5 | Ν | |
| | Fat | 181 | 4 | Ν | |
| 24 | Fat Percentage | 185 | 5 | Ν | Two decimal places (eg, -0.12) |
| 05 | Amount of data for Producti | | | NI | |
| | Reliability Number of Daughters | 190 192 | 2 6 | N N | |
| | Number of Herds | 192 | 5 | N | |
| | Number in Herd - most Daugh | | 4 | N | |
| | Number in Herd - 2nd most Date | | | 4 | Ν |
| | Records in progress (RIP%) | 211 | 3 | Ň | % of daughters with < 4 test days in 1 st lactation |
| | ABVs for Conformation Trai | ts | | | |
| | Overall Type | 214 | 3 | Ν | |
| | Mammary System | 217 | 3 | N | |
| | Overall Feet & Legs | 220 | 3 | N | |
| | Stature | 223 | 3 3 | N | |
| | Udder Texture Bone Quality | 226 229 | 3 2 | N N | |
| | Angularity | 229 232 | 3 3 | N | |
| | Muzzle Width | 235 | 3 | N | |
| 39 | Body Length | 238 | 3 | N | |
| 40 | Body Depth | 241 | 3 | Ν | |
| | | | | | |

| 41 | Loin Strength | 244 | 3 | Ν | |
|-----|--------------------------------|------------|----------------------------|------------|--|
| 42 | Chest Width | 247 | 3 | Ν | |
| 43 | Rump Length | 250 | 3 | Ν | |
| | Pin Width | 253 | 3 | N | |
| 45 | Pin Set | 256 | а́ | N | |
| | | 259 | 3 | N | |
| | Foot Angle | | 3 | | |
| 47 | Heel Depth | 262 | 3 | N | |
| | Rear Set of Leg | 265 | 3 | N | |
| | Rear Leg Rear View | 268 | 3 3 3 3 3 3 | Ν | |
| 50 | Udder Depth | 271 | 3 | Ν | |
| 51 | Fore Attachment | 274 | 3 | Ν | |
| 52 | Rear Attachment Height | 277 | 3 | Ν | |
| | Rear Attachment Width | 280 | 3 | Ν | |
| | Centre Ligament | 283 | 3 3 | N | |
| | Teat Placement Fore | 286 | 3 | N | |
| | | | 3 | N | |
| | Teat Placement Rear (new trait | | | | |
| | Teat Length | 292 | 3 | N | |
| 58 | | 295 | 3 | Ν | |
| | Amount of data for Conforma | ation Trai | ts (aver | | f key traits) |
| 59 | Reliability | 298 | 2 | Ν | |
| 60 | Number of Daughters | 300 | 6 | Ν | |
| 61 | Number of Herds | 306 | 5 | Ν | |
| | ABVs for Workability Traits | | | | |
| 62 | ABV Milking Speed | 311 | 3 | Ν | |
| | ABV Temperament | 314 | 3 | N | |
| | ABV Likability | 317 | 3 | N | |
| 04 | | | 5 | IN | |
| 05 | Amount of data for Workabili | | 2 | NI | |
| | Reliability Workability Traits | 320 | 2 | N | |
| | Number of Daughters | 322 | 6 | N | |
| 67 | Number of Herds | 328 | 5 | Ν | |
| | ABV and Reliability for Surviv | val | | | |
| 68 | ABV Survival | 333 | 3 | Ν | |
| 69 | Reliability Survival | 336 | 2 | Ν | |
| | ABV for Calving Ease | | | | |
| 70 | ABV Calving Ease | 338 | 3 | Ν | |
| | Amount of data for Calving E | | U | | |
| 71 | Reliability Calving Ease | 341 | 2 | Ν | |
| | | | | | |
| 72 | Number of Calvings | 343 | 6 | N | |
| 73 | Number of Herds | 349 | 5 | Ν | |
| | ABV for Cell Count | | _ | | |
| 74 | ABV Somatic Cell Count | 354 | 3 | Ν | |
| | Amount of data for Cell Cour | nt | | | |
| 75 | Reliability Cell Count | 357 | 2 | Ν | |
| 76 | • | 359 | 6 | Ν | |
| 77 | Number of Herds | 365 | 5 | Ν | |
| | ABV for Daughter Fertility | | - | | |
| 78 | ABV Daughter Fertility | 370 | 3 | Ν | |
| 70 | | | 5 | IN | |
| 70 | Amount of data for Daughter | | 2 | NI | |
| 79 | , , , | 373 | 2 | N | |
| 80 | 0 | 375 | 6 | N | |
| 81 | Number of Herds | 381 | 5 | Ν | |
| | ABV for Liveweight | | | | |
| 82 | ABV Liveweight (kg) | 386 | 3 | Ν | |
| | Amount of data for Liveweigh | nt | | | |
| 83 | Reliability Liveweight | 389 | 2 | Ν | |
| | Genomics Evaluation | | | | |
| 84 | Genomics Evaluation | 391 | 1 | А | g=genomics included, blank otherwise |
| 0.1 | | 501 | • | <i>,</i> , | g generation included, blank outof who |

| | Health Weighted Index (HW | /I) | | |
|----|-------------------------------|------------|---|---|
| 85 | Health Weighted Index | 392 | 4 | Ν |
| 86 | Reliability HWI | 396 | 2 | Ν |
| | Sustainability Index (SI) | | | |
| 87 | Sustainability Index | 398 | 4 | Ν |
| 88 | Reliability SI | 402 | 2 | Ν |
| | ABVs for New Traits | | | |
| 89 | ABV Residual Survival | 404 | 3 | Ν |
| 90 | Reliability Residual Survival | 407 | 2 | Ν |
| 91 | ABV Feed Efficiency | 409 | 5 | Ν |
| 92 | Reliability Feed Efficiency | 414 | 2 | Ν |
| | | | | |

RECORD LENGTH = 415 bytes

Data Format 202 V2 Cow ABVs for All Traits

| Field No. | d Field Name | Start Column | - | Numeric /Alpha | Comments |
|--------------|-----------------------------------|-----------------|------------------|-------------------|---|
| 1 | Record Type | 1 | 3 | Ν | Value = 202 |
| | Record Version Number Herd ID | 4 | 1 | А | Value = 2 |
| 3 | National Herd ID Cow Identity | 5 | 7 | А | See DIF Document Note 8 |
| 4 | National ID | 12 | 9 | А | See Note 3 |
| | Within-Herd Cow ID Herdbook ID | 21 | 6 | N | |
| 6 | Country Code | 27 | 3 | А | See Note 2 |
| 7 | Herdbook Number | 30 | 12 | A | See Note 2 |
| 8 | Genetic Codes | 42 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| 0 | Cow Details | 72 | 070 | ~ | op to o timee-character codes (see note 10) |
| Q | Breed of cow | 66 | 4 | А | See Note 1 |
| | Date of Birth | 70 | 8 | Ň | yyyymmdd |
| | | 78 | 8 | | |
| | Date of Latest Calving | | | N | yyyymmdd |
| | Number of Lactations in ABV | - | 86 | 2 | N |
| | Crossbreed | 88 | 1 | A | 'X' if crossbreed, otherwise space |
| 14 | DPC Code | 89 | 1 | A | See Note 4 |
| | Pedigree details | | | | |
| 15 | Sire National ID | 90 | 9 | А | see Note 3 |
| 16 | Dam National ID | 99 | 9 | A | see Note 3 |
| 17 | MGS National ID | 108 | 9 | А | see Note 3 |
| | ABV Analysis Details | | | | |
| 18 | Breed of ABV Analysis | 117 | 1 | А | single character breed code - see Note 1 |
| 19 | Date of ABV Analysis | 118 | 8 | Ν | yyyymmdd |
| | Source of ABV Analysis | 126 | 1 | А | A = ABV, I = ABV(i) |
| | Balanced Performance Inde | x (BPI) | | | |
| 21 | Balanced Performance Index | 127 | 4 | Ν | |
| 22 | Reliability BPI | 131 | 2 | Ν | |
| | ABVs for Production Traits | | | | |
| 23 | Australian Selection Index | 133 | 4 | Ν | |
| 24 | Protein | 137 | 4 | Ν | |
| 25 | Protein Percentage | 141 | 5 | Ν | Two decimal places (eg, -0.12) |
| 26 | Milk | 146 | 5 | Ν | |
| | Fat | 151 | 4 | Ν | |
| 28 | Fat Percentage | 155 | 5 | Ν | Two decimal places (eg, -0.12) |
| | Amount of data for Producti | on Trait | S | | |
| 29 | Reliability | 160 | 2 | Ν | |
| | ABVs for Conformation Trai | ts | | | |
| 30 | Overall Type | 162 | 3 | Ν | |
| 31 | Mammary System | 165 | 3 | Ν | |
| | Overall Feet & Legs | 168 | 3 | Ν | |
| | Stature | 171 | 3 | Ν | |
| | Udder Texture | 174 | 3 3 3 3 | Ν | |
| | Bone Quality | 177 | 3 | Ν | |
| | Angularity | 180 | 3 3 3 3 | Ν | |
| 37 | Muzzle Width | 183 | 3 | Ν | |
| | Body Length | 186 | 3 | Ν | |
| 39 | Body Depth | 189 | 3 | Ν | |
| | Loin Strength | 192 | 3 | Ň | |
| 41 | Chest Width | 195 | 3 | Ν | |
| | | | | | |

| | Rump Length | 198 | 3 | Ν | |
|----|--------------------------------|---------|--------------------------------------|-----|--------------------------------------|
| | Pin Width | 201 | 3 | N | |
| | Pin Set | 204 | 3 | N | |
| | Foot Angle | 207 | 3 | N | |
| | Heel Depth | 210 | 3 | N | |
| | Rear Set of Leg | 213 | 3 | N | |
| | Rear Leg Rear View | 216 | 3 | N | |
| | Udder Depth | 219 | 3 3 3 3 3 3 3 3 | N | |
| | Fore Attachment | 222 | 3 | N | |
| | Rear Attachment Height | 225 | 3 | N | |
| | Rear Attachment Width | 228 | 3 | N | |
| | Centre Ligament | 231 | 3 | N | |
| | Teat Placement Fore | 234 | 3 | N | |
| | Teat Placement Rear (new tra | | 3 | N | |
| | Teat Length | 240 | 3 | N | |
| 57 | | 243 | 3 | Ν | |
| 50 | Amount of data for Conform | ation I | raits (av | | of key traits) |
| 58 | Reliability | 246 | 2 | N | |
| 50 | ABVs and Reliability for Wo | | | N I | |
| | ABV Milking Speed | 248 | 3 | N | |
| | ABV Temperament | 251 | 3 | N | |
| | ABV Likability | 254 | 3 | N | |
| 62 | Reliability Workability Traits | 257 | 2 | Ν | |
| 00 | ABV and Reliability for Surv | | 0 | | |
| | ABV Survival | 259 | 3 | N | |
| 64 | Reliability Survival | 262 | 2 | Ν | |
| 05 | ABV and Reliability for Calv | | | N I | |
| | ABV Calving Ease | 264 | 3 | N | |
| 66 | Reliability Calving Ease | 267 | 2 | Ν | |
| 07 | ABV and Reliability for Cell | | 0 | | |
| | ABV Somatic Cell Count | 269 | 3 | N | |
| 68 | Reliability Cell Count | 272 | 2 | Ν | |
| 00 | ABV and Reliability for Daug | | | | |
| | ABV Daughter Fertility | 274 | 3 | N | |
| 70 | Reliability Daughter Fertility | 277 | 2 | Ν | |
| 74 | ABV and Reliability for Live | | 0 | | |
| | ABV Liveweight (kg) | | 3 | N | |
| 72 | Reliability Liveweight | 282 | 2 | Ν | |
| 70 | Genomic Evaluation | 004 | | | |
| 73 | Genomic evaluation | 、284 | 1 | A | g=genomics included, blank otherwise |
| | Health Weighted Index (HWI | | | | |
| 74 | | 285 | 4 | N | |
| 75 | Reliability HWI | 289 | 2 | Ν | |
| | Sustainability Index (SI) | | | | |
| 76 | | 291 | 4 | N | |
| 77 | | 295 | 2 | Ν | |
| | ABVs for New Traits | 007 | 6 | | |
| 78 | ABV Residual Survival | 297 | 3 | N | |
| 79 | 2 | 300 | 2 | N | |
| 80 | ABV Feed Efficiency | 302 | 5 | N | |
| 81 | Reliability Feed Efficiency | 307 | 2 | Ν | |
| | | | | | |

RECORD LENGTH = 308 bytes

Data Format 251 V6 Bull ABVs for All Traits (extended file)

| Fiel No. | d Field Name | Start Columr | - | n Numeric /Alpha | Comments |
|-------------|--|-----------------|------------------|---------------------|--|
| 1 | Record Type | 1 | 3 | Ν | Value = 251 |
| 2 | Record Version Number Bull Identity | 4 | 1 | A | Value = 6 |
| 3 | National ID | 5 | 9 | А | See Note 3 |
| 4 | NASIS Bull ID | 14 | 12 | A | If NASIS |
| 5 | NASIS Primary ID | 26 | 7 | A | If NASIS |
| <u> </u> | Herdbook ID | 22 | 2 | ^ | Can Nata 0 |
| 6 7 | Country Code Herdbook Number | 33 36 | 3 12 | A A | See Note 2 See Note 2 |
| 8 | International ID | 48 | 12 | Â | Interbull format |
| 9 | Name | 67 | 40 | A | interbali format |
| | Genetic Codes | 107 | 8x3 | A | Up to 8 three-character codes (see note 10) |
| | Bull Details | | • | | |
| 11 | Date of Birth | 131 | 8 | Ν | yyyymmdd |
| 12 | Sire National ID | 139 | 9 | Α | see Note 3 |
| 13 | Dam National ID | 148 | 9 | А | see Note 3 |
| 14 | MGS National ID | 157 | 9 | A | see Note 3 |
| 15 | MGD National ID | 166 | 9 | A | see Note 3 |
| 16 | Sire International ID | 175 | 19 | A | Interbull format |
| 17 | Dam International ID | 194 | 19 | A | Interbull format |
| 18 19 | MGS International ID MGD International ID | 213 232 | 19 19 | A A | Interbull format Interbull format |
| 19 | International Proof Details | 232 | 19 | A | Interbuirtonnat |
| 20 | Type of Proof | 251 | 2 | Ν | Interbull codes – see note below |
| 21 | Includes Foreign Proof | 253 | 1 | A | "Y = information from another country is incorporated in national proof, N otherwise" |
| 22 | Birth Date of First Australian I | Daughter | [.] 254 | 8 | N yyyymmdd |
| | Balanced Performance Inde | | | | |
| 23 | Balanced Performance Index | | 4 | Ν | |
| 24 | Reliability BPI | 266 | 2 | N | |
| | Main Components of BPI (C | compone | ents ex | pressed | in dollar unit values) |
| 25 | Protein | 268 | 4 | Ν | |
| 26 | Milk | 272 | 4 | N | |
| 27 | Fat | 276 | 4 | N | |
| 28 | Milking Speed | 280 | 4 | Ν | |
| 29 | Temperament | 284 | 4 | Ν | |
| 30 | Residual Survival | 288 | 4 | Ν | |
| 31 | Somatic Cell Count | 292 | 4 | N | |
| | Feed Efficiency | 296 | 4 | N | |
| 33 | Daughter Fertility | 300 | 4 | N | |
| 34 35 | Mammary System | 304 | 4 308 | N 4 | Ν |
| 36 | Overal Udder | | 312 | 4 | N |
| | Pin Set | 316 | 4 | Ň | |
| 01 | Components of Survival Inc | | т | | |
| 38 | Survival | 320 | 4 | Ν | |
| | Likability | 324 | 4 | Ν | |
| 40 | Overall Type | 328 | 4 | N | |
| 41 | Udder Depth | 332 | 4 | N | |
| 42 | Pin Set | 336 | 4 | Ν | |

| | Components of Liveweight | | | | |
|----------|------------------------------------|------------|---------|--------|--|
| 43 | Stature | 340 | 4 | Ν | |
| 43 | Body depth | 340 344 | 4 | N | |
| 44 | Chest width | 344 348 | 4 | N | |
| 40 | Chest width | 540 | 4 | IN | |
| | ABVs for Production Traits | | | | |
| 46 | Australian Selection Index | 352 | 4 | Ν | |
| 47 | Protein | 356 | 4 | N | |
| 48 | Protein Percentage | 360 | 5 | N | "Two decimal places (eg -0.12)" |
| 40 | Milk | 365 | 5 | N | 1 wo decimal places (eg -0.12) |
| 49 50 | Fat | 370 | 4 | N | |
| 51 | Fat Percentage | 374 | 5 | N | "Two decimal places (eg -0.12)" |
| 51 | Amount of data for Production | | - | IN | Two decimal places (eg -0.12) |
| 52 | Reliability | 379 | 2 | Ν | |
| 53 | Number of Daughters | 381 | 6 | N | |
| 54 | Number of Herds | 387 | 5 | N | |
| 55 | Number of Effective Daughters | | 6 | N | |
| 56 | | | 4 | N | |
| 57 | Number in Herd - 2nd most Daught | | | 4 | Ν |
| 58 | Records in Progress (RIP%) | 406 | 3 | Ň | % of daughters with < 4 test days in 1st |
| 50 | | 400 | 5 | IN | lactation |
| | International Daughter Numb | pers for | Product | ion Tr | |
| 59 | Number of Countries With Dau | | | 2 | N |
| 60 | Country With Most Daughters | | 3 | Ā | see note 2 for list of country codes |
| 61 | Number of Daughters in This C | | - | 6 | N |
| 62 | Country With Second Most Day | | | 3 | A see note 2 for list of country codes |
| 63 | Number of Daughters in This C | | | 6 | N |
| 64 | Country With Third Most Daug | | | Ă | see note 2 for list of country codes |
| 65 | Number of Daughters in This C | | | 6 | N |
| 66 | Country With Fourth Most Dau | | | 3 | A see note 2 for list of country codes |
| 67 | Number of Daughters in This C | | | 6 | N |
| 68 | Country With Fifth Most Daugh | | | Ă | see note 2 for list of country codes |
| 69 | Number of Daughters in This C | | | 6 | N |
| 00 | ABV Analysis Details for Pro | | | U | |
| 70 | Breed of ABV Analysis | 456 | 1 | А | single character breed code - see Note 1 |
| 71 | Date of ABV Analysis | 457 | 8 | N | yyyymmdd |
| | Source of ABV Analysis | 465 | 1 | A | "A = ABV, I = ABV(i)" |
| | Proof publishable | 466 | 1 | А | "P = publishable, U = unpublishable" |
| 74 | | 467 | 1 | A | "A = Aus only, I = International only, B = both" |
| | ABVs for Conformation Trait | | | | |
| 75 | Overall Type | 468 | 3 | Ν | |
| 76 | | 471 | 3 | Ν | |
| 77 | Mammary System | 474 | 3 | Ν | |
| 78 | Stature | 477 | 3 | Ν | |
| 79 | Udder Texture | 480 | 3 3 | Ν | |
| 80 | Bone Quality | 483 | 3 | Ν | |
| 81 | Angularity | 486 | 3 3 | Ν | |
| 82 | Muzzle Width | 489 | 3 | Ν | |
| 83 | Body Length | 492 | 3 | Ν | |
| 84 | Body Depth | 495 | 3 | Ν | |
| 85 | Chest Width | 498 | 3 | Ν | |
| 86 | Rump Length | 501 | 3 | Ν | |
| 87 | Pin Width | 504 | 3 3 | Ν | |
| 88 | Pin Set | 507 | 3 | Ν | |
| 89 | Foot Angle | 510 | 3 | Ν | |
| 90 | Rear Set of Leg | 513 | 3 | Ν | |
| 91 | Rear Leg Rear View | 516 | 3 | Ν | |
| | - | | | | |

| 92 | Heel Depth | 519 | 3 | Ν |
|-----|-------------------------------|-----------------------|---|---|
| | | | 2 | |
| | Udder Depth | 522 | 3 | Ν |
| 94 | Fore Attachment | 525 | 3 | Ν |
| 95 | Rear Attachment Height | 528 | 3 | Ν |
| | Rear Attachment Width | 531 | 2 2 | Ν |
| | | 534 | 2 | |
| | Centre Ligament | | 3 | Ν |
| | Teat Placement Fore | 537 | 3 | Ν |
| 99 | Teat Length | 540 | 3 | Ν |
| | Loin Strength | 543 | 3 | Ν |
| | Front End Height | 546 | 3 | N |
| | 5 | | 5 | |
| | Teat Placement Rear | 549 | 3 | Ν |
| 103 | Condition Score | 552 | - | Ν |
| | Amount of data for old Confo | ormation ⁻ | Traits | |
| 104 | Reliability | 555 | 2 | Ν |
| | Number of Daughters | 557 | 6 | N |
| | | | | |
| | Number of Herds | 563 | 5 | Ν |
| 107 | Number of Effective Daughters | 568 | 6 | Ν |
| | Amount of data for Overall Ty | pe | | |
| 108 | Reliability | 574 | 2 | Ν |
| | Number of Daughters | 576 | 6 | N |
| | | | | |
| | Number of Herds | 582 | 5 | Ν |
| 111 | Number of Effective Daughters | 587 | 6 | Ν |
| | Amount of data for Mammary | v Svstem | | |
| 112 | Reliability | 593 | 2 | Ν |
| | | | | |
| | Number of Daughters | 595 | 6 | Ν |
| 114 | Number of Herds | 601 | 5 | Ν |
| 115 | Number of Effective Daughters | 606 | 6 | Ν |
| | Amount of data for Stature | | | |
| 116 | Reliability | 612 | 2 | Ν |
| | | | 2 | |
| | Number of Daughters | 614 | 6 | Ν |
| | Number of Herds | 620 | 5 | Ν |
| 119 | Number of Effective Daughters | 625 | 6 | Ν |
| | Amount of data for Udder Tex | | | |
| 120 | Reliability | 631 | 2 | Ν |
| | | | 6 | |
| | Number of Daughters | 633 | | N |
| 122 | Number of Herds | 639 | 5 | Ν |
| 123 | Number of Effective Daughters | 644 | 6 | Ν |
| | Amount of data for Bone Qua | | | |
| 124 | Reliability | 650 | 2 | Ν |
| | | | 6 | N |
| | Number of Daughters | 652 | | |
| | Number of Herds | 658 | 5 | Ν |
| 127 | Number of Effective Daughters | 663 | 6 | Ν |
| | Amount of data for Angularity | v | | |
| 128 | Reliability | 669 | 2 | Ν |
| | | 671 | 6 | N |
| | Number of Daughters | | | |
| | Number of Herds | 677 | 5 | Ν |
| 131 | Number of Effective Daughters | 682 | 6 | Ν |
| | Amount of data for Muzzle W | idth | | |
| 132 | Reliability | 688 | 2 | Ν |
| | | | 6 | |
| | Number of Daughters | 690 | | N |
| | Number of Herds | 696 | 5 | Ν |
| 135 | Number of Effective Daughters | 701 | 6 | Ν |
| | Amount of data for Body Len | ath | | |
| 136 | Reliability | 707 | 2 | Ν |
| | Number of Daughters | 709 | 6 | N |
| | | | | |
| | Number of Herds | 715 | 5 | Ν |
| 139 | Number of Effective Daughters | 720 | 6 | Ν |
| | | | | |

| Amount of data for Body Dep | oth | | |
|--|------------|--------|-----|
| 140 Reliability | 726 | 2 | Ν |
| 141 Number of Daughters | 728 | 6 | Ν |
| 142 Number of Herds | 734 | 5 | Ν |
| 143 Number of Effective Daughters | 739 | 6 | Ν |
| Amount of data for Chest Wid | | - | |
| 144 Reliability | 745 | 2 | Ν |
| 145 Number of Daughters | 747 | 6 | N |
| 146 Number of Herds | 753 | 5 | N |
| 147 Number of Effective Daughters | | 6 | N |
| Amount of data for Rump Lei | | 0 | |
| 148 Reliability | 764 | 2 | Ν |
| 149 Number of Daughters | 766 | 6 | N |
| 150 Number of Herds | 772 | 5 | N |
| 151 Number of Effective Daughters | | 6 | N |
| Amount of data for Pin Width | | 0 | 1.1 |
| 152 Reliability | 783 | 2 | Ν |
| 153 Number of Daughters | 785 | 6 | N |
| 154 Number of Herds | 791 | 5 | N |
| 155 Number of Effective Daughters | | 6 | N |
| Amount of data for Pin Set | 790 | 0 | IN |
| 156 Reliability | 802 | 2 | Ν |
| 2 | | 6 | N |
| 157 Number of Daughters 158 Number of Herds | 804 810 | 5 | N |
| | | 5 6 | |
| 159 Number of Effective Daughters | | 0 | Ν |
| Amount of data for Foot Ang | | 0 | NI |
| 160 Reliability | 821 | 2 6 | N |
| 161 Number of Daughters | 823 | | N |
| 162 Number of Herds | 829 | 5 | N |
| 163 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Rear Set | | ~ | N I |
| 164 Reliability | 840 | 2 | N |
| 165 Number of Daughters | 842 | 6 | N |
| 166 Number of Herds | 848 | 5 | Ν |
| 167 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Rear Leg | | | N I |
| 168 Reliability | 859 | 2 | N |
| 169 Number of Daughters | 861 | 6 | N |
| 170 Number of Herds | 867 | 5 | N |
| 171 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Udder De | - | ~ | N I |
| 172 Reliability | 878 | 2 | N |
| 173 Number of Daughters | 880 | 6 | N |
| 174 Number of Herds | 886 | 5 | Ν |
| 175 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Fore Attac | | ~ | N I |
| 176 Reliability | 897 | 2 | N |
| 177 Number of Daughters | 899 | 6 | N |
| 178 Number of Herds | 905 | 5 | N |
| 179 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Rear Atta | | - | |
| 180 Reliability | 916 | 2 | N |
| 181 Number of Daughters | 918 | 6 | Ν |
| 182 Number of Herds | 924 | 5 | Ν |
| 183 Number of Effective Daughters | | 6 | Ν |
| Amount of data for Rear Atta | | | |
| 184 Reliability | 935 | 2 | Ν |

| 185 Number of Daughters | 937 | 6 | Ν | |
|---------------------------------|--------------|----|----|---|
| 186 Number of Herds | 943 | 5 | Ν | |
| 187 Number of Effective Daughte | ers 948 | 6 | Ν | |
| Amount of data for Centre | | | | |
| 188 Reliability | 954 | 2 | Ν | |
| 189 Number of Daughters | 956 | 6 | N | |
| 190 Number of Herds | 962 | 5 | N | |
| 191 Number of Effective Daughte | | 6 | N | |
| Amount of data for Teat Pl | | - | IN | |
| | | | N | |
| 192 Reliability | 973 | 2 | N | |
| 193 Number of Daughters | 975 | 6 | N | |
| 194 Number of Herds | 981 | 5 | N | |
| 195 Number of Effective Daughte | | 6 | Ν | |
| Amount of data for Teat Le | - | | | |
| 196 Reliability | 992 | 2 | Ν | |
| 197 Number of Daughters | 994 | 6 | Ν | |
| 198 Number of Herds | 1000 | 5 | Ν | |
| 199 Number of Effective Daughte | ers1005 | 6 | Ν | |
| Amount of data for Loin St | | | | |
| 200 Reliability | 1011 | 2 | Ν | |
| 201 Number of Daughters | 1013 | 6 | N | |
| 202 Number of Herds | 1019 | 5 | N | |
| 203 Number of Effective Daughte | | 6 | N | |
| | | 0 | IN | |
| Amount of data for Front E | - | 0 | NI | |
| 204 Reliability | 1030 | 2 | N | |
| 205 Number of Daughters | 1032 | 6 | N | |
| 206 Number of Herds | 1038 | 5 | N | |
| 207 Number of Effective Daughte | | 6 | Ν | |
| Amount of data for Teat Pl | | | | |
| 208 Reliability | 1049 | 2 | Ν | |
| 209 Number of Daughters | 1051 | 6 | Ν | |
| 210 Number of Herds | 1057 | 5 | Ν | |
| 211 Number of Effective Daughte | ers1062 | 6 | Ν | |
| Amount of data for Condit | | | | |
| 212 Reliability | 1068 | 2 | Ν | |
| 213 Number of Daughters | 1070 | 6 | N | |
| 214 Number of Herds | 1076 | 5 | N | |
| 215 Number of Effective Daughte | | 6 | N | |
| International Daughter Nu | | | | Traits |
| 216 Number of Countries With D | | | 2 | N |
| 217 Country With Most Daughter | | 3 | | see note 2 for list of country codes |
| | | - | A | · · · · · · · · · · · · · · · · · · · |
| 218 Number of Daughters in This | | | 6 | N |
| 219 Country With Second Most [| | | 3 | A see note 2 for list of country codes |
| 220 Number of Daughters in This | | | 6 | N |
| 221 Country With Third Most Dat | | | А | see note 2 for list of country codes |
| 222 Number of Daughters in This | | | 6 | Ν |
| 223 Country With Fourth Most Da | aughters 11 | 16 | 3 | A see note 2 for list of country codes |
| 224 Number of Daughters in This | s Country 11 | 19 | 6 | Ν |
| 225 Country With Fifth Most Dau | ghters1125 | 3 | А | see note 2 for list of country codes |
| 226 Number of Daughters in This | | | 6 | N |
| ABV Analysis Details for C | | | 5 | |
| 227 Breed of ABV Analysis | 1134 | 1 | А | single character breed code - see Note 1 |
| 228 Date of ABV Analysis | 1135 | 8 | Ň | yyyymmdd |
| 229 Source of ABV Analysis | 1143 | 1 | A | "A = ABV, I = ABV(i)" |
| 230 Proof publishable | 1143 | 1 | Â | "P = publishable, U = unpublishable" |
| 231 Foreign proof contribution | 1144 | 1 | A | "A = Aus only, I = International only, B = both" |
| | | I | ~ | $\pi - \pi u_0$ only, $r = n u_0$ national only, $D = D001$ |
| ABVs for Workability Trait | 3 | | | |
| | | | | |

| 232 ABV Milking Speed | 1146 | 3 | Ν | |
|------------------------------------|--------------|---------|----|--|
| 233 ABV Temperament | 1149 | 3 | Ν | |
| 234 ABV Likability | 1152 | 3 | Ν | |
| Amount of data for Workab | ility Traits | 5 | | |
| 235 Reliability Workability Traits | 1155 | 2 | Ν | |
| 236 Number of Daughters | 1157 | 6 | Ν | |
| 237 Number of Herds | 1163 | 5 | N | |
| 238 Number of Effective Daughte | | 6 | N | |
| International Daughter Num | | - | | raite |
| 239 Number of Countries With Da | | | 2 | N |
| | • | - | | |
| 240 Country With Most Daughters | | 3 | A | see note 2 for list of country codes |
| 241 Number of Daughters in This | | | 6 | N |
| 242 Country With Second Most D | | | 3 | A see note 2 for list of country codes |
| 243 Number of Daughters in This | | | 6 | Ν |
| 244 Country With Third Most Dau | | | A | see note 2 for list of country codes |
| 245 Number of Daughters in This | | | 6 | Ν |
| 246 Country With Fourth Most Da | | | 3 | A see note 2 for list of country codes |
| 247 Number of Daughters in This | Country 12 | 206 | 6 | Ν |
| 248 Country With Fifth Most Daug | hters1212 | 2 3 | А | see note 2 for list of country codes |
| 249 Number of Daughters in This | Country 12 | 215 | 6 | N |
| ABV Analysis Details for W | | | | |
| 250 Breed of ABV Analysis | 1221 | 1 | А | single character breed code - see Note 1 |
| 251 Date of ABV Analysis | 1222 | 8 | Ν | yyyymmdd |
| 252 Source of ABV Analysis | 1230 | 1 | A | "A = ABV, I = ABV(i)" |
| 253 Proof publishable | 1231 | 1 | A | "P = publishable, U = unpublishable" |
| 254 Foreign proof contribution | 1232 | 1 | Â | "A = Aus only, I = International only, B = both" |
| | | 1 | ~ | A – Aus only, I – International only, D – both |
| ABV and Reliability for Surv | | 2 | NI | |
| 255 Survival Solution | 1233 | 3 | N | |
| 256 Reliability Survival Solution | 1236 | 2 | N | |
| 257 ABV Survival | 1238 | 3 | N | |
| 258 Reliability Survival | 1241 | 2 | N | |
| 259 Number of Daughters | 1243 | 6 | Ν | |
| 260 Number of Herds | 1249 | 5 | Ν | |
| 261 Number of Effective Daughte | rs1254 | 6 | Ν | |
| International Daughter Num | ubers for \$ | Surviva | | |
| 262 Number of Countries With Da | aughters 12 | 260 | 2 | Ν |
| 263 Country With Most Daughters | s 1262 | 3 | А | see note 2 for list of country codes |
| 264 Number of Daughters in This | | 265 | 6 | N |
| 265 Country With Second Most D | | | 3 | A see note 2 for list of country codes |
| 266 Number of Daughters in This | | | 6 | N |
| 267 Country With Third Most Dau | | | Ă | see note 2 for list of country codes |
| 268 Number of Daughters in This | | | 6 | N |
| 269 Country With Fourth Most Da | | | 3 | A see note 2 for list of country codes |
| 270 Number of Daughters in This | | | 6 | N |
| 271 Country With Fifth Most Daug | | | | |
| | | | A | see note 2 for list of country codes |
| 272 Number of Daughters in This | | 301 | 6 | Ν |
| ABV Analysis Details for Su | | | • | al a da se a constante a da se da se a se Nata A |
| 273 Breed of ABV Analysis | 1307 | 1 | A | single character breed code - see Note 1 |
| 274 Date of ABV Analysis | 1308 | 8 | N | yyyymmdd |
| 275 Source of ABV Analysis | 1316 | 1 | A | A = ABV, I = ABV(i) |
| 276 Proof publishable | 1317 | 1 | Α | "P = publishable, U = unpublishable" |
| 277 Foreign proof contribution | 1318 | 1 | А | "A = Aus only, I = International only, B = both" |
| ABV for Calving Ease | | | | |
| 278 ABV Calving Ease | 1319 | 3 | Ν | |
| Amount of data for Calving | Ease | | | |
| 279 Reliability Calving Ease | 1322 | 2 | Ν | |
| 280 Number of Calvings | 1324 | 6 | Ν | |
| | | | | |

| 281 Number of Herds | 1330 | 5 | Ν | |
|--|---|--------------------------------------|---------------------------------|---|
| 282 Number of Effective Calving | | 6 | N | |
| International Daughter Nu | | - | | |
| 283 Number of Countries With D | | | 2 | Ν |
| 284 Country With Most Daughte | | - | | |
| | | 3 | A | see note 2 for list of country codes |
| 285 Number of Daughters in Thi | | | 6 | N |
| 286 Country With Second Most | | | 3 | A see note 2 for list of country codes |
| 287 Number of Daughters in Thi | | | 6 | Ν |
| 288 Country With Third Most Da | | | Α | see note 2 for list of country codes |
| 289 Number of Daughters in Thi | | | 6 | Ν |
| 290 Country With Fourth Most D | | | 3 | A see note 2 for list of country codes |
| 291 Number of Daughters in Thi | s Country 1 | 373 | 6 | Ν |
| 292 Country With Fifth Most Dau | ughters137 | 93 | Α | see note 2 for list of country codes |
| 293 Number of Daughters in Thi | s Country 1 | 382 | 6 | N |
| ABV Analysis Details for (| | | | |
| 294 Breed of ABV Analysis | 1388 | 1 | А | single character breed code - see Note 1 |
| 295 Date of ABV Analysis | 1389 | 8 | N | yyyymmdd |
| 296 Source of ABV Analysis | 1397 | 1 | A | A = ABV, I = ABV(i) |
| 297 Proof publishable | 1398 | 1 | A | "P = publishable, U = unpublishable" |
| 298 Foreign proof contribution | 1399 | 1 | Â | "A = Aus only, I = International only, B = both" |
| ABV for Somatic Cell Cou | | I | ~ | A = Aus Only, I = International Only, D = Dott |
| | | Λ | NI | |
| 299 ABV Somatic Cell Count | 1400 | 4 | Ν | |
| Amount of data for Somat | | - | | |
| 300 Reliability Somatic Cell Cou | | 2 | N | |
| 301 Number of Daughters | 1406 | 6 | N | |
| 302 Number of Herds | 1412 | 5 | Ν | |
| 303 Number of Effective Daught | | 6 | Ν | |
| International Daughter Nu | mbers for | Somati | c Cell | Count |
| 304 Number of Countries With D | aughters 1 | 423 | 2 | Ν |
| 305 Country With Most Daughte | rs 1425 | 3 | А | see note 2 for list of country codes |
| 306 Number of Daughters in Thi | s Country 1 | 428 | 6 | N |
| 307 Country With Second Most | | | 3 | A see note 2 for list of country codes |
| 308 Number of Daughters in Thi | | | 6 | N |
| 309 Country With Third Most Da | | | Ā | see note 2 for list of country codes |
| 310 Number of Daughters in Thi | | | 6 | N |
| 311 Country With Fourth Most D | | | 3 | A see note 2 for list of country codes |
| 312 Number of Daughters in Thi | • | | 6 | N |
| 313 Country With Fifth Most Dat | | | Ă | see note 2 for list of country codes |
| 314 Number of Daughters in Thi | | | 6 | N |
| ABV Analysis Details for S | | | | N |
| 315 Breed of ABV Analysis | 1470 | | A | single character breed code - see Note 1 |
| | 1471 | 8 | Ň | • |
| 316 Date of ABV Analysis | 1471 | | | |
| 217 Course of ADV/ Apply aid | | 4 | | yyyymmdd |
| 317 Source of ABV Analysis | 1479 | 1 | А | "A = ABV, I = ABV(i)" |
| 318 Proof publishable | 1479 1480 | 1 1 | A A | "Ă = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 318 Proof publishable 319 Foreign proof contribution | 1479 1480 1481 | 1 | А | "A = ABV, I = ABV(i)" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv | 1479 1480 1481 reweight | 1 1 1 | A A A | "Ă = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight | 1479 1480 1481 reweight 1482 | 1 1 1 4 | A A A N | "Ă = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight | 1479 1480 1481 reweight 1482 1486 | 1 1 1 4 2 | A A A | "Ă = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight ABV Analysis Details for Liv | 1479 1480 1481 reweight 1482 1486 Liveweight | 1 1 1 4 2 | A A A N | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 | 1 1 1 2 1 | A A N N | "Ă = ABV, I = ABV(i)" "P = publishable, U = unpublishable" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight ABV Analysis Details for Liv | 1479 1480 1481 reweight 1482 1486 Liveweight | 1 1 1 2 | A A A N N | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight ABV Analysis Details for L 322 Breed of ABV Analysis | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 | 1 1 1 2 1 | A A N N | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight ABV Analysis Details for L 322 Breed of ABV Analysis 323 Date of ABV Analysis | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 1489 | 1 1 4 2 1 8 | A A A N N A N | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 yyyymmdd |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight 322 Breed of ABV Analysis 323 Date of ABV Analysis 324 Source of ABV Analysis 325 Proof publishable | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 1489 1497 | 1 1 4 2 1 8 1 | AAA NN ANA | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight 321 Reliability Liveweight 322 Breed of ABV Analysis 323 Date of ABV Analysis 324 Source of ABV Analysis 325 Proof publishable 326 Foreign proof contribution | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 1489 1497 1498 | 1 1 4 2 1 8 1 1 | A A A N N A N A A | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable", |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Live 320 ABV Liveweight 321 Reliability Liveweight 322 Breed of ABV Analysis 323 Date of ABV Analysis 324 Source of ABV Analysis 325 Proof publishable 326 Foreign proof contribution ABV for Cow Fertility | 1479 1480 1481 reweight 1482 1486 .iveweight 1488 1489 1497 1498 | 1 1 4 2 1 8 1 1 | A A A N N A N A A | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable", |
| 318 Proof publishable 319 Foreign proof contribution ABV and Reliability for Liv 320 ABV Liveweight 321 Reliability Liveweight 321 Reliability Liveweight 322 Breed of ABV Analysis 323 Date of ABV Analysis 324 Source of ABV Analysis 325 Proof publishable 326 Foreign proof contribution | 1479 1480 1481 reweight 1482 1486 iveweight 1488 1489 1497 1498 1499 1500 | 1 1 4 2 1 8 1 1 | AAA NN ANAAA | "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable" "A = Aus only, I = International only, B = both" single character breed code - see Note 1 yyyymmdd "A = ABV, I = ABV(i)" "P = publishable, U = unpublishable", "A = Aus only, I = International only, B = both" |

| 328 Reliability Cow Fertility | 1504 | 2 | Ν | Provisional |
|---------------------------------------|-------------|------|---|--|
| 329 Number of Daughters | 1506 | 6 | Ν | |
| 330 Number of Herds | 1512 | 5 | Ν | |
| 331 Number of Effective Daughte | ers1517 | 6 | Ν | |
| International Daughter Nur | | | | |
| 332 Number of Countries With Da | | 523 | 2 | Ν |
| 333 Country With Most Daughter | | 3 | А | see note 2 for list of country codes |
| 334 Number of Daughters in This | | | 6 | Ν |
| 335 Country With Second Most E | | | 3 | A see note 2 for list of country codes |
| 336 Number of Daughters in This | Gountry 1 | 537 | 6 | Ν |
| 337 Country With Third Most Dau | ughters154 | 13 3 | Α | see note 2 for list of country codes |
| 338 Number of Daughters in This | Country 1 | 546 | 6 | N |
| 339 Country With Fourth Most Da | aughters 1 | 552 | 3 | A see note 2 for list of country codes |
| 340 Number of Daughters in This | s Country 1 | 555 | 6 | N |
| 341 Country With Fifth Most Dau | | | А | see note 2 for list of country codes |
| 342 Number of Daughters in This | Country 1 | 564 | 6 | N |
| ABV Analysis Details for C | ow Fertili | ty | | |
| 343 Breed of ABV Analysis | 1570 | 1 | А | single character breed code - see Note 1 |
| 344 Date of ABV Analysis | 1571 | 8 | Ν | yyyymmdd |
| 345 Source of ABV Analysis | 1579 | 1 | А | A = ABV, I = ABV(i) |
| 346 Proof publishable | 1580 | 1 | А | "P = publishable, U = unpublishable" |
| 347 Foreign proof contribution | 1581 | 1 | А | "A = Aus only, I = International only, B = both" |
| Genomic Evaluation | | | | |
| 348 Genomics Evaluation | 1582 | 1 | А | g=genomics included, blank otherwise |
| Health Weighted Index (HW | VI) | | | |
| 349 Health Weighted Index | 1583 | 4 | Ν | |
| 350 Reliability HWI | 1587 | 2 | Ν | |
| Sustainability Index (SI) | | | | |
| 351 Sustainability Index | 1589 | 4 | Ν | |
| 352 Reliability Sl | 1593 | 2 | Ν | |
| ABVs for New Traits | | | | |
| 353 ABV Residual Survival | 1595 | 3 | Ν | |
| 354 Reliability Residual Survival | 1598 | 2 | Ν | |
| 355 ABV Feed Efficiency | 1600 | 5 | Ν | |
| 356 Reliability Feed Efficiency | 1605 | 2 | Ν | |
| , , , , , , , , , , , , , , , , , , , | | | | |

RECORD LENGTH = 1606 bytes

Type of Proof

- 00 unknown
- 11 based on first crop sampling daughters
- 12 based on first and second crop daughters
- 21 based on imported semen of proven bull (second crop daughters only)

Data Format 261 V2 Cow ABVs for All Traits (extended file)*

| Field No. | Field Name | | | | Use Only) Comments |
|----------------------|--|--------------------------|----------------------|------------------|--|
| 1 2 | Record Type Record Version Number | 1 4 | 3 1 | N A | Value = 261 Value = 2 |
| 3 | Herd ID National Herd ID Cow Identity | 5 | 7 | А | See DIF Document Note 8 |
| 4 5 | National ID Within-Herd Cow ID Herdbook ID | 12 21 | 9 6 | A N | See DIF Document Note 3 |
| 6 7 8 9 | Country Code Herdbook Number International ID Name | 27 30 42 61 | 3 12 19 40 | A A A A | See DIF Document Note 2 See DIF Document Note 2 Interbull format – see DIF Document Note 10 |
| 10 | Genetic Codes Cow Details | 101 | 15 | A | Up to 8 three-character codes (see note 10 |
| 11 12 13 14 | Breed of cow Date of Birth Date of Latest Calving Number of Lactations in Al | | 8 8 sis | A N 136 | See DIF Document Note 1 yyyymmdd 2 N |
| 15 16 | Crossbreed DPC Code Pedigree Details | 138 139 | 1 | A A | 'X' if crossbreed, otherwise space See DIF Document Note 4 |
| 17 18 19 20 | Sire National ID Dam National ID MGS National ID MGD National ID | 140 149 158 167 | 9 | A A A A | see DIF Document Note 3 see DIF Document Note 3 see DIF Document Note 3 see DIF Document Note 3 |
| 21 22 23 24 | Sire International ID Dam International ID MGS International ID MGD International ID | 176 195 214 233 | 19 19 19 19 | A A A A | Interbull format – see DIF Document Note 10 Interbull format – see DIF Document Note 10 Interbull format – see DIF Document Note 10 Interbull format – see DIF Document Note 10 |
| 25 26 | Sire Nasis Bull ID MGS Nasis Bull ID Rank within Australia | 252 264 | 12 12 | A A | |
| 27 28 | Rank within-breed on BPI Rank within-breed on ASI Balanced Performance In | | 6 I) | N N | |
| 29 30 31 | Balanced Performance Inc Reliability BPI ABVs for Production Tra Australian Selection Index | 292 | 2 | N N N | |
| 32 33 34 35 | Protein Protein Percentage Milk Fat | 298 302 307 312 | 4 5 5 | N N N N | Two decimal places (eg, -0.12) |
| 36 37 | Fat Percentage ABV Analysis Details for Reliability | 316 | 5 | Ν | Two decimal places (eg, -0.12) |
| 38 39 40 41 | Breed of ABV Analysis Date of ABV Analysis Source of ABV Analysis | 323 324 332 333 | 1 8 1 | A N A | single char breed code - see DIF Document Note 1 yyyymmdd A = ABV, I = ABV(i) P = publisbable, LL = uppublisbable |
| 41 42 | Proof publishable Foreign proof contribution ABVs for Conformation | 334 | | A A | P = publishable, U = unpublishable A = Aus only, I = International only, B = both |

| 43 | Overall Type | 335 | 3 | Ν | |
|----------|--------------------------------|-----|---|-----|---|
| 44 | Mammary System | 338 | 3 | Ν | |
| 45 | Overall Feet and Legs | 341 | 3 | N | |
| 46 | Stature | 344 | 3 | N | |
| 47 | Udder Texture | 347 | 3 | N | |
| | | | | | |
| 48 | Bone Quality | 350 | 3 | N | |
| 49 | Angularity | 353 | 3 | N | |
| 50 | Muzzle Width | 356 | 3 | Ν | |
| 51 | Body Length | 359 | 3 | Ν | |
| 52 | Body Depth | 362 | 3 | Ν | |
| 53 | Loin Strength | 365 | 3 | Ν | |
| 54 | Chest Width | 368 | 3 | Ν | |
| 55 | Rump Length | 371 | 3 | N | |
| 56 | Pin Width | 374 | 3 | N | |
| 57 | Pin Set | 377 | 3 | N | |
| | | | | | |
| 58 | Foot Angle | 380 | 3 | N | |
| 59 | Heel Depth | 383 | 3 | N | |
| 60 | Rear Set of Leg | 386 | 3 | Ν | |
| 61 | Rear Leg Rear View | 389 | 3 | Ν | |
| 62 | Udder Depth | 392 | 3 | Ν | |
| 63 | Fore Attachment | 395 | 3 | Ν | |
| 64 | Rear Attachment Height | 398 | 3 | Ν | |
| 65 | Rear Attachment Width | 401 | 3 | Ν | |
| 66 | Centre Ligament | 404 | 3 | N | |
| 67 | Teat Placement Fore | 407 | 3 | N | |
| | | 410 | 3 | N | |
| 68 | Teat Placement Rear | | | | |
| 69 | Teat Length | 413 | 3 | N | |
| 70 | Condition Score | 416 | 3 | N | |
| | ABV Analysis Details for Co | | | | |
| 71 | Reliability | 419 | 2 | Ν | |
| 72 | Breed of ABV Analysis | 421 | 1 | А | single char breed code - see DIF Document Note 1 |
| 73 | Date of ABV Analysis | 422 | 8 | Ν | yyyymmdd |
| 74 | Source of ABV Analysis | 430 | 1 | А | A = ABV, I = ABV(i) |
| 75 | Proof publishable | 431 | 1 | А | P = publishable, U = unpublishable |
| 76 | Foreign proof contribution | 432 | 1 | A | A = Aus only, I = International only, B = both |
| 10 | ABVs for Workability Traits | 102 | • | / (| $r = r \operatorname{de} \operatorname{orlig}_{r} r = \operatorname{international orlig}_{r} r = \operatorname{orlig}_{r}$ |
| 77 | ABV Milking Speed | 433 | 3 | Ν | |
| | | | | | |
| 78 70 | ABV Temperament | 436 | | N | |
| 79 | ABV Likability | 439 | | N | |
| | ABV Analysis Details for Wo | | | | |
| 80 | Reliability Workability Traits | 442 | | Ν | |
| 81 | Breed of ABV Analysis | 444 | 1 | А | single char breed code - see DIF Document Note 1 |
| 82 | Date of ABV Analysis | 445 | 8 | Ν | yyyymmdd |
| 83 | Source of ABV Analysis | 453 | 1 | А | A = ABV, I = ABV(i) |
| 84 | Proof publishable | 454 | | А | P = publishable, U = unpublishable |
| 85 | Foreign proof contribution | | 1 | А | A = Aus only, I = International only, B = both |
| 00 | Survival Solution | 100 | • | / (| $r = r \operatorname{de} \operatorname{orlig}_{r} r = \operatorname{international orlig}_{r} \mathcal{D} = \operatorname{oetric}_{r}$ |
| 86 | Survival Solution | 456 | 3 | Ν | |
| 87 | | | | | |
| 07 | Reliability Survival Solution | 459 | Ζ | Ν | |
| | ABV for Survival | 404 | • | | |
| 88 | ABV Survival | 461 | 3 | Ν | |
| | ABV Analysis Details for Sur | | | | |
| 89 | Reliability Survival | 464 | | Ν | |
| 90 | Breed of ABV Analysis | 466 | 1 | А | single char breed code - see DIF Document Note 1 |
| 91 | Date of ABV Analysis | 467 | 8 | Ν | yyyymmdd |
| 92 | Source of ABV Analysis | 475 | | A | A = ABV, I = ABV(i) |
| 93 | Proof publishable | 476 | | A | P = publishable, U = unpublishable |
| 94 | Foreign proof contribution | 477 | | A | A = Aus only, I = International only, B = both |
| | ABV for Calving Ease | | • | | f = 000 |
| | | | | | |
| | | | | | |

| | | | - | | | | | |
|---------------------------------------|--|------------|-------|-----|--|--|--|--|
| 95 | ABV Calving Ease | 478 | | Ν | | | | |
| ABV Analysis Details for Calving Ease | | | | | | | | |
| 96 | Reliability Calving Ease | 481 | 2 | N | | | | |
| 97 | Breed of ABV Analysis | 483 | 1 | A | single char breed code - see DIF Document Note 1 | | | |
| 98 | Date of ABV Analysis | 484 | | Ν | yyyymmdd | | | |
| 99 | Source of ABV Analysis | 492 | | A | A = ABV, I = ABV(i) | | | |
| 100 | Proof publishable | 493 | 1 | A | P = publishable, U = unpublishable | | | |
| 101 | Foreign proof contribution | 494 | 1 | А | A = Aus only, I = International only, B = both | | | |
| | ABV for Somatic Cell Coun | | | | | | | |
| 102 | ABV Somatic Cell Count | 495 | | N | | | | |
| 400 | ABV Analysis Details for So | | | | | | | |
| 103 | Reliability Somatic Cell Coun | | | Ņ | | | | |
| 104 | Breed of ABV Analysis | 501 | 1 | A | single char breed code - see DIF Document Note 1 | | | |
| 105 | Date of ABV Analysis | 502 | | Ň | yyyymmdd | | | |
| 106 | Source of ABV Analysis | 510 | | A | A = ABV, I = ABV(i) | | | |
| 107 | Proof publishable | 511 | 1 | A | P = publishable, U = unpublishable | | | |
| 108 | Foreign proof contribution | 512 | 1 | А | A = Aus only, I = International only, B = both | | | |
| 400 | ABV for Daughter Fertility | E40 | 4 | N I | | | | |
| 109 | ABV Daughter Fertility | 513 | | N | | | | |
| 110 | ABV Analysis Details for Da | | | | | | | |
| 110 | Reliability Daughter Fertility | 517 | | N | | | | |
| 111 | Breed of ABV Analysis | 519 | 1 | A | single char breed code - see DIF Document Note 1 | | | |
| 112 | Date of ABV Analysis | 520 | | N | yyyymmdd | | | |
| 113 | Source of ABV Analysis | 528 529 | | A | A = ABV, I = ABV(i) | | | |
| 114 115 | Proof publishable | 529 | | A | P = publishable, U = unpublishable | | | |
| 115 | Foreign proof contribution | | | A | A = Aus only, I = International only, B = both | | | |
| 116 | ABV and Reliability for Live ABV Liveweight | 531 | | Ν | | | | |
| 110 | ABV Analysis Details for Li | | | IN | | | | |
| 117 | Reliability Liveweight | 535 | | Ν | | | | |
| 118 | Breed of ABV Analysis | 537 | | A | single char breed code - see DIF Document Note 1 | | | |
| 119 | Date of ABV Analysis | 538 | | Ň | yyyymmdd | | | |
| 120 | Source of ABV Analysis | 546 | | A | A = ABV, I = ABV(i) | | | |
| 121 | Proof publishable | 547 | | A | P = publishable, U = unpublishable | | | |
| 122 | Foreign proof contribution | 548 | 1 | A | A = Aus only, I = International only, B = both | | | |
| 122 | Has Genomics | 0.10 | • | 73 | | | | |
| 123 | HasGenomics | 549 | 1 | А | g=genomics included, blank otherwise | | | |
| 124 | DPC Name | | 10 | A | g generniee meradea, slaim etherniee | | | |
| 125 | Herd Owner | 560 | | A | | | | |
| 126 | Dam Name | 595 | 40 | A | | | | |
| | Health Weighted Index (HW | | | | | | | |
| 127 | Health Weighted Index | 635 | 4 | Ν | | | | |
| 128 | Reliability HWI | 639 | 2 | N | | | | |
| | Sustainability Index (SI) | | - | | | | | |
| 129 | Sustainability Index | 641 | 4 | Ν | | | | |
| 130 | Reliability SI | 645 | 2 | N | | | | |
| | ABVs for New Traits | 0.0 | - | | | | | |
| 131 | ABV Residual Survival | 647 | 3 | Ν | | | | |
| 132 | Reliability Residual Survival | 650 | 2 | N | | | | |
| 133 | ABV Feed Efficiency | 652 | 5 | N | | | | |
| 134 | Reliability Feed Efficiency | 657 | 2 | N | | | | |
| | Index Ranking | 001 | - | | | | | |
| 135 | Rank in Australia on HWI with | hin-hre | ed659 | 6 | Ν | | | |
| 136 | Rank in Australia on SI within | | | 6 | N | | | |
| 100 | | . 51000 | | 0 | | | | |
| | | | | | | | | |

RECORD LENGTH = 670 bytes

Sort order with all fields in ascending order: Fields 1, 2, 3, 4

APPENDIX G – Bulk Import Excel Files

There are a number of acceptable file types that are used to load information into DataGene's Centralised Data Repository.

Here are some examples. Sample version can be found on the DataGene website <u>https://datagene.com.au/node/1451</u>

Nomination new format – a simplified nomination format for genomic evaluations Cow look up ID – a file used to load IDs of genomic evaluation candidates so that a complete list of national IDs can be returned. Bulk bull import – to load bulls in a batch

Bulk cow import – to load cows in a batch

Interbull pedigree format - to load several generations of pedigree for a group of animals