

Council on Dairy Cattle Breeding IDs & co.

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Accepted IDs full documentation

Accepted IDs full documentation - WIP

- End of 2020, CDCB is planning to start a process of re-writing our editing system, that has organically evolved over 30 years
- Consequences:
 - Full documentation of business rules (step 1)
 - Full documentation of data flow (step 2)
 - Future (subject to change):
 - addressing formats
 - addressing data flow
 - Change in perspective:
 - from research-based (give me the data, I'll handle it on my end)
 - To business-based (give me good data, I'll reject the bad one and will tell you why and how to fix it).

Currently... [WARNING: APPROX. NUMBERS]

- Records received between December and March (*note: multiple info can be sent in one record, multiple records sent on the same animal*).
- **About 22mIn lactation records**
 - +30% recs with any kind of error - across all DRPCs – ~7 mln records with errors. **[NOT ALL ERRORS ARE “BAD” RECORDS!]**
 - Lots of repeated errors... up to 91,205 times in 3 months for the same “ID”
 - .. Of which nearly **40%** is an ID-related error code (not necessarily a problem).

Errors



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Error Documentation

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Error Codes

- 1 Animal Identification
 - 1A Obvious Unknown Animal
 - 1B Obvious Misidentification
 - 1C Unusual Identification
 - 1D Invalid Format
 - 1E Invalid Format
 - 1F Miscellaneous
 - 1G Master File Pedigree Discrepancy
 - 1H Master File Pedigree Discrepancy
 - 1I Maternal Sister Discrepancy (obsolete)
 - 1J Maternal Sister Discrepancy (obsolete)
 - 1K Maternal Sister Discrepancy (obsolete)
 - 1L Maternal Sister Discrepancy (obsolete)
 - 1M Maternal Sister Discrepancy (obsolete)
 - 1N Master File Sibling Discrepancy
 - 1O Master File Sibling Discrepancy



One data provider example

| Code | Reason | Type | Count |
|------|--|--------|---------|
| 1Be | Animal identification provided is not the preferred identification (crossreference) | CHANGE | 350,426 |
| 1Ab | Animal identification number is all blanks. | REJECT | 109,130 |
| 1Oh | Input animal is updated to twin | CHANGE | 54,373 |
| 1Di | American ID animal number has failed check digit test | REJECT | 37,669 |
| 1Bp | USA animal country code is changed to 840. | CHANGE | 35,666 |
| 1Fe | Grade animal identification that has already been assigned to another breed. | REJECT | 14,608 |
| 1Dk | Old type registered animal identification number is outside limits and is not verified. | REJECT | 12,920 |
| 1Oj | Input animal's dam is a conflict with existing master file. Dam is blanked. | CHANGE | 7,518 |
| 1Da | Animal breed code is invalid. | REJECT | 7,409 |
| 1Fh | Animal identification number that has already been assigned to another breed. Cross-reference of the animals failed. | REJECT | 4,508 |
| 1De | Grade animal identification number has missing alphabetic characters in middle positions (@13-15). | REJECT | 4,224 |
| 1Oo | Input animal has a half-sibling in the master file that has a conflict with the incoming record that cannot be resolved. | REJECT | 4,077 |
| 1Bl | Breed code of animal identification number is invalid. Breed code is changed. | CHANGE | 2,901 |
| 1Bi | Animal breed code is changed to master file animal identification breed code. | CHANGE | 2,594 |
| 1Dq | American ID animal number is outside limit and is not verified. | REJECT | 1,994 |
| 1Oq | Input animal would create a herd, cow control number overlap with existing data. | REJECT | 1,935 |
| 1Dj | American ID animal number is greater than the highest identification known and is not verified. | REJECT | 1,164 |
| 1HI | Input animal identification number '00093V' has master file '00097V' identification with birth date not earlier than 366 days. | REJECT | 1,090 |
| 1Fg | Animal identification number that has already been assigned to the opposite sex. | REJECT | 996 |
| 1Dc | USA animal identification number has non-numeric characters where not allowed. | REJECT | 728 |
| 1Aa | Animal identification number is all zeroes | REJECT | 487 |
| 1Dd | Grade animal identification number has invalid state code. (@11-12). | REJECT | 470 |
| 1Op | Input animal has a pre-existing herd, cow control number overlap with another animal in the master file. | REJECT | 312 |
| 1Fc | Animal identification number equals dam identification number on the input record. | REJECT | 302 |
| 1Og | Input animal is updated to ET | CHANGE | 214 |
| 1Oi | Input animal is a twin to sibling in the master file. Input animal's birth is being updated. | CHANGE | 202 |
| 1Fb | Animal identification number equals sire identification number on the input record. | REJECT | 126 |

Lots of repetition (sub-optimal handling of error feedback)

| Code | ID | Count |
|------------|--------------------|--------|
| 1Ab | HO | 91,205 |
| 1Ab | JE | 15,975 |
| 1Di | HOUSA000XXXXXXXX1 | 5,915 |
| 1Ab | XD | 1,502 |
| 1Di | XDUSA000XXXXXXXX2 | 1,271 |
| 1Di | HOUSA000XXXXXXXX3 | 1,266 |
| 1Di | XDUSA000XXXXXXXX4 | 1,215 |
| 1Di | HOUSA000XXXXXXXX5 | 1,152 |
| 1Di | HOUSA000XXXXXXXX6 | 1,088 |
| 1Di | HOUSA000XXXXXXXX7 | 941 |
| 1Di | HOUSA000XXXXXXXX8 | 905 |
| 1Di | HOUSA000XXXXXXXX9 | 833 |
| 1Di | HOUSA000XXXXXXXX10 | 821 |
| 1Di | HOUSA000XXXXXXXX11 | 742 |
| 1Di | HOUSA000XXXXXXXX12 | 668 |
| 1Dq | HOUSA000XXXXXXXX13 | 641 |
| 1Di | HOUSA000XXXXXXXX14 | 588 |
| 1Dc | JEUSA00000000NONE | 581 |
| 1Dq | HOUSA000XXXXXXXX16 | 450 |
| 1Di | XDUSA000XXXXXXXX17 | 420 |

Registration IDs are NOT enough!

enicolazzi@CDCBdev1 WORK \$ getids SRSWE000120911098

| Key | ID | Sex | Src | Pref | Reg | Mod | |
|----------|-------------------|-----|-----|------|---------------|----------------|--|
| 39566071 | SRSWE000120911098 | M | B | 1 | 2012-07-05 | PETERSLUND | |
| 39566071 | MSUSA000360012016 | M | B | 3 | 2012-07-04 | | |
| 39566071 | AYUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | HOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | JESWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | MOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | NOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | NRUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | RDSWE000000091213 | M | B | 4 | 2009-09-29 | | |
| 39566071 | SMUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | SRSWE000000091213 | M | B | 4 | PB 2015-08-26 | PETERSLUND | |
| 39566071 | SRUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | XXSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | WWUSA000170167712 | M | B | 5 | WW 2004-04-09 | PETERSLUND-RED | |

enicolazzi@CDCBdev1 WORK \$ getbrd 000000091213

| Key | ID | Sex | Src | Pref | Reg | Mod | |
|----------|-------------------|-----|-----|------|---------------|-------------------|--|
| 39566071 | AYUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 3464838 | BSUSA000000091213 | F | D | 1 | | | |
| 57259 | BSUSA000000091213 | M | B | 1 | | | |
| 69255516 | FLSWE000000091213 | M | D | 1 | 2014-09-08 | | |
| 39209118 | HOFIN000000091213 | M | I | 1 | 2000-05-19 | Hietalahden Roomu | |
| 39238286 | HONZL000000091213 | M | I | 1 | 2000-05-19 | ATHOL DAN | |
| 39566071 | HOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | JESWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | MOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | NOSWE000000091213 | M | B | 4 | 2008-08-06 | | |
| 39566071 | NRUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | RDSWE000000091213 | M | B | 4 | 2009-09-29 | | |
| 61041246 | REDEU000000091213 | M | I | 1 | 2011-10-22 | | |
| 63200376 | SMSWE000000091213 | M | D | 1 | 2012-08-02 | | |
| 39566071 | SMUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 39566071 | SRSWE000000091213 | M | B | 4 | PB 2015-08-26 | PETERSLUND | |
| 39566071 | SRUSA000000091213 | M | B | 4 | 2019-12-04 | | |
| 34409841 | WWUSA000000091213 | F | B | 1 | | | |
| 39566071 | XXSWE000000091213 | M | B | 4 | 2008-08-06 | | |

Take home messages

- Improvement is necessary.
- All industry (including producer and on-farm software) is responsible and must be involved in improving the situation.
- Standard definition and clear rules are needed
- Registration ID is not enough

**THANK YOU FOR YOUR
ATTENTION**