PCM Leasing, Inc.

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Total Milk Management 12

ASCII CSV File Format
for the transmission of
Milk Testing Data

Please review the following documentation carefully. It can impact the quality of your services to your Total Milk Management customers.

The following file specifications were developed to create a uniform standard for the transmission of milk testing data into the **Total Milk Management Version 12** system. This standard is very close to our TMM 10 test file formats you may have used for years. The major change is in the delivery method. Test files will no longer need to be e-mailed or loaded on to a FTP server for dissemination.

Once you have configured your data output, per the following specifications, please e-mail a sample data file to moakley.oakley@totalmilk.com. We will verify your sample file is in the correct format and assign you a user id and password to log on to our test portal at https://lab.totalmilk.com. Once you have uploaded a test file to this portal, the test results are automatically routed to your TMM 12 customer! Complete instructions for using this portal will be available shortly as well as online support.

Myron Oakley

President
PCM

General File Specifications

1. File format shall be in a standard ASCII text format.

2. Each record shall be one and only one line.

3. Each line will be terminated with CR or CR/LF combination.

4. The first (and only the first) line of every test file shall be a "template" or header line. This template line will contain each field's test data attribute. See the sample test file for an example.

5. Each field of a record shall be delimited with a comma (,). If a data for a field is NOT being supplied, it is still required to be delimited with a comma. A field item not supplied or tested would look like this:

   ,,

   (Two commas together, one or more spaces between two commas are permitted).

6. **NEVER** supply a zero or any other value for a test you **DID NOT** perform. If any specific test is not performed it should be just delimited per item 5 above.

7. Field names must be exact or they will **NOT** transfer. Please double check your headers carefully.

Record Layout

Field # 1 – "ProducerPlant" - **Required**

This FDA / IMS / BTU of the entity licensing this producer. This must exist on the Total Milk Management master plant list. Note: This may differ from the *state* assigned plant number. If the state plant ID differs, it should be used in field # 30.

Field # 2 - "ProducerNo" – **Required**

The producer number as provided by the customer. It shall be numeric.

Field # 3 - "Unit Id" - (Tank Number) - **Optional**

This is a **Required** field whenever the patron has more than one cooler **AND / OR** more than one pickup on the same day. For example, a patron may have two coolers and even two pickups from each cooler per day. The first stop would have sample unit ids of **1** and **2**; the second stop would have sample unit ids of **3** and **4**. Whole number format.

Field # 4 - "Grade" – **Optional, but highly recommended.**

Text format, either **A** or **B**. It is highly recommend this be supplied by the lab as it reflects and confirms the acceptable limits for cells and plates.

Field # 5- "RecordDate" - (includes Time)   – **Required**

The date and time the test sample was received into the lab. The Date string shall be "mm/dd/yy hh:mm:ss".

Field # 6 - "SampleDate" - (includes Time)   – **Required**

The date and time the test sample was collected. The Date string shall be "mm/dd/yy hh:mm:ss".

Field # 7- "TimeTested" - (includes Date and Time)   – **Required**

The date and time the test sample was tested at the lab.   The Date string shall be "mm/dd/yy hh:mm:ss".

Field # 8 - "SampleTemperature" – **Required**

The temperature of the sample when collected. Whole number format, example **38**

Field # 9 - "BF" - (Butter Fat) – **Required on a MCP Test, Optional on other Types**

Decimal format, example **3.48**

Field # 10 - "PT" - (Protein) – **Required on a MCP Test, Optional on other Types**

Decimal format, example **2.86**

Field # 11 - "LT" - (Lactose) – **Optional**

Decimal format, example **4.75**

Field # 12 - "OS" - (Other Solids) – **Required on a MCP Test, Optional on other Types**

Decimal format, example **2.86**

Field # 13 – "TS" - (Total Solids) - **Optional**

Decimal format, example **12.9**

Field # 14 - "SC" - (Somatic Cell, raw count) – **Required on a MCP Test, Optional on other Types**

Whole number format, example **351**

Field # 15 - "OSCC" - (Somatic Cell, Rounded) – **Optional but only if SC is provided, otherwise NULL**

Text Format, example **> 860 ***

Field # 16 - "PC" - (Plate Count, raw count) - **Optional**

Whole number format, example 15

Field # 17 - "PLC" - (Plate Count, Rounded) - **Optional but only if PC is provided, otherwise NULL**

Text Format, example **> 520***

Field # 18 - "IsAntibioticTested" - **Optional**

If supplied, must either be the text **TRUE** or **FALSE**.

Field # 19 - "IsAntibioticPos" – **Optional, Required if Antibiotic Tested is TRUE.**

If supplied, must either be the text **TRUE** or **FALSE**.

Field # 20 - "Cryoscope" - **Optional**

Whole number format, example 540.

Field # 21 - "Sediment" – **Optional**

Whole number format, example 1.

Field # 22 - "PI" – **Optional**

Whole number format, example 1.

Field # 23 - "CS" - **Optional**

Casein _ID – Decimal format, example **16.2**

Field # 24 - "MUN" – **Optional**

Decimal format, example **16.2**

Field # 25 - "IsOfficial" – **Optional**

If supplied, must either be the text **TRUE** or **FALSE**.

Field # 26 – "Lab Id" – **Required** (18 Characters Max)

This must be your licensed FDA laboratory id. Please confirm this item with PCM prior to exporting tests.
The format is <state code>-<license ID>.   This must exist on the Total Milk Management master lab list.

Field # 27 – "Lab Test Id" – **Required** (18 Characters Max)

The test ID may be alpha numeric. We recommend it simply be a number. **IT MUST BE TIED
DIRECTLY TO THE SAMPLE BEING TESTED, THUS, UNIQUE!** We highly recommend it be unique to
each and every sample processed by your facility. It **MUST** be unique to your customer. You should
consider it a serial number of that sample and only that sample, never to be re-used again! *When
importing tests into TMM, this number is used to determine if it is a new test or simply additional or
updated data on a test previously transmitted.*

Field # 28 - "IsInvalid" - **Optional**

If supplied, means this test record's results were rejected or otherwise disqualified.

Field # 29 - "LPC" - **Optional**

Whole number format, example **15**

Field # 30- "EC" - **Optional**

Whole number format, example **15**

Field # 31- "BarCode" - **Optional**

String format, example **123-abc**

Field # 32- "Mold" - **Optional**

String format, example **<10, 23**

Field # 33- "Yeast" - **Optional**

String format, example **<10, 15**

Field # 34 - "StatePlantID" - **Implementation Pending**

Must be supplied if the given state references the producer plant with any ID different than the standard IMS plant id. (Note: Wisconsin does this.)

Additional or new fields may be appended from time to time. The fields may appear in any order, in the submitted test record. Once imported, however, the fields will be displayed in the order listed above. Unrecognized fields *may* be manually mapped or are otherwise ignored.