

NATIONAL MILK DRUG RESIDUE DATA BASE

FISCAL YEAR 2006 ANNUAL REPORT

October 1, 2005 - September 30, 2006

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INTRODUCTION

The National Milk Drug Residue Data Base (NMDRD) is a voluntary industry reporting program. Mandatory reporting is required by State Regulatory Agencies under the National Conference on Interstate Milk Shipments (NCIMS). Data are reported on the extent of the national testing activities, the analytical methods used, the kind and extent of the animal drug residues identified, and the amount of contaminated milk that was removed from the human food supply. The system includes all milk, Grade "A" and non-Grade "A", commonly known as manufacturing grade. Grade "A" milk represents approximately 90% of the milk supply in the United States and is regulated through the NCIMS by State Regulatory Agencies. Manufacturing grade milk is under the direction of the Regulatory Agencies in the States where it is produced and may be subject to the standards recommended by the United States Department of Agriculture (USDA). Data reported to the NMDRD are for educational and analytical purposes and are not intended or suitable for regulatory action or follow-up.

BACKGROUND

The NCIMS is a voluntary organization directed and controlled by member States to promote the availability of a high quality milk supply. The Food and Drug Administration (FDA) and the NCIMS through their collaborative efforts have developed a cooperative, federal-state program (the Grade "A" Interstate Milk Shippers program) to ensure the sanitary quality of Grade "A" milk and milk products shipped in interstate commerce. During the 1991 meeting of the NCIMS, the Conference authorized a national program to compile the results of milk residue testing by industry and State Regulatory Agencies.

Subsequently, FDA awarded a contract to develop a NMDRD. The data base is operated by an independent third party, under contract to the FDA. The data base design was developed in consultation with a project advisory group with members from the FDA and a NCIMS committee representing dairy producers, dairy processors, USDA, State Regulatory Agencies, and academia. The data base was designed to promote maximum participation by the dairy industry to report on a voluntary basis all of their testing results, without compromising any confidential data. Information regarding individual firm's data is not submitted to the data base contractor.

It is important to recognize that the samples and tests reported do not necessarily represent one hundred percent (100%) of the milk supply from every State. However, as State and industry participation in the data base increased, reporting of the number of samples and tests similarly increased.

Continuing efforts are being made to ensure that there is uniform reporting among all the States and the industry and to ensure that the drugs and test methods reported are correct.

During the reporting period, a web-based version of the reporting software was developed, field evaluated with three participating states, and then made available to all data reporters on September 1, 2006. Instructions for registering and using the software were e-mailed to the reporting states and were also posted on the contractor's web site at: www.kandc-sbcc.com/nmdrd/index.html. Twenty-two (22) data reporters utilized the new web-based software to submit data for the FY 2006 Annual Report. The web site also includes previous NMDRD annual reports.

SUMMARY

This report presents summary data on samples and tests conducted during Fiscal Year 2006 (October 1, 2005 to September 30, 2006). Forty-seven (47) states submitted data for this report. No data were received from Kansas, Rhode Island, Connecticut and Puerto Rico.

The Grade "A" Pasteurized Milk Ordinance (PMO), the rules which State Regulatory Agencies use to implement their Grade "A" milk program, requires that all bulk milk tankers be sampled and analyzed for animal drug residues before the milk is processed. Any tanker found positive is rejected for human consumption.

During this period **4,176,745** samples were analyzed for animal drug residues. Of these samples **2,258** were positive for a residue. A total of **4,204,919** tests were reported on the samples for **twelve** (12) different groups of families or individual drugs. **Thirty-four** (34) testing methods were used to analyze the samples for residues. Details are presented in the Tables in this report.

SAMPLE RESULTS

A SAMPLE is defined as representing a load or lot of milk sampled and analyzed, e.g. a bulk milk pick-up tanker, producer, or over-the-road tanker, a silo, etc.

Table 1 shows the results of the samples tested by source.

Data are reported by four SOURCES OF SAMPLES:

1. Bulk Milk Pick-Up Tanker - bulk raw milk from a dairy farm.
2. Pasteurized Fluid Milk and Milk Products - after pasteurization; finished product in package form or bulk. This term includes milk products such as milk, cream, condensed and dry milk and milk products, and condensed and dry whey and whey products.
3. Producer - raw milk obtained from the bulk tank/silo from a dairy farm. Samples are reported by the permitting State, rather than by the analyzing State.
4. Other - milk from milk plant silos, over-the-road tankers, etc.

A POSITIVE result, as used in this report, means that the sample was found to be positive for a drug residue by a test acceptable for taking regulatory action in a certified laboratory by a certified analyst or the milk was rejected on the basis of an initial screening test by the milk processor.

The DISPOSITION per PMO column represents the amount of milk contained in the tank or lot found to be positive and disposed of in accordance with the PMO and/or applicable State rules.

TABLE 1 -- Sample Results October 1, 2005 to September 30, 2006				
Source of Sample	Total Samples	Number Positive	Percent Positive	Disposition per PMO (Pounds)
Bulk Milk Pick-Up Tanker	3,431,165	1,312	0.038%	78,406,000
Pasteurized Fluid Milk and Milk Products	44,956	1	0.002%	46,000
Producer	623,685	928	0.149%	2,197,000
Other	76,939	17	0.022%	439,000
TOTALS	4,176,745	2,258	*	81,088,000

The asterisk (*) notes that a summary of the percent positive cannot be provided because there is no uniformity in terms of sampling in the four categories. For example, the PMO sets forth specific sampling requirements for Beta lactams testing as follows:

1. Bulk Milk Pick-Up Tanker Samples -- samples are taken on receipt of every tanker load;
2. Pasteurized Fluid Milk and Milk Products -- a minimum of four samples must be tested for each finished product from each plant during any consecutive six months;
3. Producer -- each producer must be tested at least four times during any consecutive six months; and
4. Other -- samples are conducted on a random basis.

Table 2 presents these results in greater detail and shows the number of samples conducted by industry and by State Regulatory Agencies. Industry samples are taken by processing facilities, receiving and transfer stations, and marketing groups or cooperatives. Industry sampling and testing may be conducted to meet the industry requirements of Appendix N of the PMO which sets forth testing and reporting requirements for animal drug residues or for quality control purposes. Regulatory samples are taken by State and Local Regulatory Agencies.

TABLE 2 -- Industry and Regulatory Samples
October 1, 2005 to September 30, 2006

Source of Sample	Number of Industry Samples	Number of Positive Industry Samples	Number of Regulatory Samples	Number of Positive Regulatory Samples	Total Samples	Total Positive Samples	Total Percent Positive	Disposition Per PMO (Pounds)
GRADE A								
Bulk Milk Pick-Up Tanker	3,157,581	1,188	18,853	15	3,176,434	1,203	0.038%	56,938,000
Pasteurized Fluid Milk and Milk Products	2,869	0	40,524	1	43,393	1	0.002%	46,000
Producer	422,050	713	161,867	144	583,917	857	0.147%	2,112,000
Other	58,936	16	7,000	0	65,936	16	0.024%	406,000
NON-GRADE A								
Bulk Milk Pick-Up Tanker ¹	244,078	106	10,653	3	254,731	109	0.043%	21,468,000
Pasteurized Fluid Milk and Milk Products	1,210	0	353	0	1,563	0	0.000%	0,000
Producer	34,546	70	5,222	1	39,768	71	0.179%	85,000
Other	10,578	1	425	0	11,003	1	0.009%	33,000
TOTALS	3,931,848	2,094	244,897	164	4,176,745	2,258	*	81,088,000²

¹It is a common practice in some States, including two large milk production States, that bulk milk pick-up tankers pickup milk from both Grade "A" and non-Grade "A" milk producers on the same tanker. Then, these loads are delivered to non-Grade "A" processing facilities. Because of this commingling of the two grades of milk, all data related to these loads are reported under non-Grade "A".²

Note that this represents 0.045% of the total milk supply of the United States with an annual production of 180.9 billion pounds.

* See Table 1 for explanation

TESTS CONDUCTED

An objective of the NMDRD is to record every test run on each sample analyzed. Since some samples are analyzed for more than one drug residue, the number of tests conducted (4,204,919) is greater than the number of samples (4,176,745). To avoid duplicate reporting of samples, the number of samples analyzed is reported separately from the number of tests run in the data base.

Table 3 presents summary results of the number of tests which were conducted during October 1, 2005 to September 30, 2006. The term, validated test, as used in this report, is a test used for the screening of raw milk for drug residue, which has been evaluated in accordance with Appendix N of the PMO and found acceptable by FDA in accordance with the standards established for the evaluation of these types of tests. In addition, FDA validated drug residue detection procedures for screening and quantization of drug residues in milk may be used. Table 3A presents summary results using validated tests and Table 3B presents summary results using non-validated tests.

TABLE 3 -- Tests Conducted October 1, 2005 to September 30, 2006			
Source of Sample	Total Tests	Number of Tests Positive	Percent Positive
Bulk Milk Pick-Up Tanker	3,455,016	1,313	0.038
Pasteurized Fluid Milk and Milk Products	45,001	1	0.002
Producer	627,426	930	0.148
Other	77,476	17	0.022
TOTALS	4,204,919	2,261	*

*See Table 1 for explanation

TABLE 3A -- Validated Tests Conducted October 1, 2005 to September 30, 2006			
Source of Sample	Total Tests	Number of Tests Positive	Percent Positive
Bulk Milk Pick-Up Tanker	3,414,673	1,290	0.038
Pasteurized Fluid Milk and Milk Products	44,018	1	0.002
Producer	626,836	930	0.148
Other	76,347	17	0.022
TOTALS	4,161,874	2,238	*

* See Table 1 for explanation

TABLE 3B -- Non-Validated Tests Conducted October 1, 2005 to September 30, 2006			
Source of Sample	Total Tests	Number of Tests Positive	Percent Positive
Bulk Milk Pick-Up Tanker	40,343	23	0.057
Pasteurized Fluid Milk and Milk Products	983	0	0.000
Producer	590	0	0.000
Other	1,129	0	0.000
TOTALS	43,045	23	*

* See Table 1 for explanation

Table 4 presents additional details in terms of the tests conducted by industry and by State Regulatory Agencies. Tables 4A and 4B present these data by validated and non-validated tests.

TABLE 4 -- Tests Conducted by Industry and Regulatory Agencies							
October 1, 2005 to September 30, 2006							
Source of Sample	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Total Percent Positive
GRADE A							
Bulk Milk Pick-Up Tanker	3,181,426	1,189	18,858	15	3,200,284	1,204	0.038%
Pasteurized Fluid Milk and Milk Products	2,869	0	40,569	1	43,438	1	0.002%
Producer	423,645	713	161,913	144	585,558	857	0.146%
Other	59,199	16	7,272	0	66,471	16	0.024%
NON-GRADE A							
Bulk Milk Pick-Up Tanker ¹	244,079	106	10,653	3	254,732	109	0.043%
Pasteurized Fluid Milk and Milk Products	1,210	0	353	0	1,563	0	0.000%
Producer	36,646	72	5,222	1	41,868	73	0.174%
Other	10,578	1	427	0	11,005	1	0.009%
TOTALS	3,959,652	2,097	245,267	164	4,204,919	2,261	*

¹It is a common practice in some States, including two large milk production States, that bulk milk pick-up tankers pickup milk from both Grade "A" and non-Grade "A" milk producers the same truck. Then, these loads are delivered to non-Grade "A" processing facilities. Because of this commingling of the two grades of milk, all data related to these loads are reported under non-Grade "A".

* See Table 1 for explanation

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TABLE 4A -- Validated Tests Conducted by Industry and Regulatory Agencies
October 1, 2005 to September 30, 2006

Source of Sample	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Total Percent Positive
GRADE A							
Bulk Milk Pick-Up Tanker	3,146,967	1,166	12,974	15	3,159,941	1,181	0.037%
Pasteurized Fluid Milk and Milk Products	2,535	0	39,920	1	42,455	1	0.002%
Producer	423,055	713	161,913	144	584,968	857	0.147%
Other	58,070	16	7,272	0	65,342	16	0.024%
NON-GRADE A							
Bulk Milk Pick-Up Tanker ¹	244,079	106	10,653	3	254,732	109	0.043%
Pasteurized Fluid Milk and Milk Products	1,210	0	353	0	1,563	0	0.000%
Producer	36,646	72	5,222	1	41,868	73	0.174%
Other	10,578	1	427	0	11,005	1	0.009%
TOTALS	3,923,140	2,074	238,734	164	4,161,874	2,238	*

¹It is a common practice in some States, including two large milk production States, that bulk milk pick-up tankers pickup milk from both Grade "A" and non-Grade "A" milk producers the same truck. Then, these loads are delivered to non-Grade "A" processing facilities. Because of this commingling of the two grades of milk, all data related to these loads are reported under non-Grade "A".

* See Table 1 for explanation

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TABLE 4B -- Non-Validated Tests Conducted by Industry and Regulatory Agencies
October 1, 2005 to September 30, 2006

Source of Sample	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Total Percent Positive
GRADE A							
Bulk Milk Pick-Up Tanker	34,459	23	5,884	0	40,343	23	0.057%
Pasteurized Fluid Milk and Milk Products	334	0	649	0	983	0	0.000%
Producer	590	0	0	0	590	0	0.000%
Other	1,129	0	0	0	1,129	0	0.000%
NON-GRADE A							
Bulk Milk Pick-Up Tanker ¹	0	0	0	0	0	0	0.000%
Pasteurized Fluid Milk and Milk Products	0	0	0	0	0	0	0.000%
Producer	0	0	0	0	0	0	0.000%
Other	0	0	0	0	0	0	0.000%
TOTALS	36,512	23	6,533	0	43,045	23	*

¹ It is a common practice in some States, including two large milk production States, that bulk milk pick-up tankers pickup milk from both Grade "A" and non-Grade "A" milk producers the same truck. Then, these loads are delivered to non-Grade "A" processing facilities. Because of this commingling of the two grades of milk, all data related to these loads are reported under non-Grade "A".

* See Table 1 for explanation

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Table 5 shows the number of tests conducted by the family of drugs and by individual drug. Tables 5A and 5B present these data by validated and non-validated tests.

TABLE 5 -- Number of Tests Conducted by Family/Drug October 1, 2005 to September 30, 2006		
Family/Drug	Total Tests	Total Positive
AMINOGLYCOSIDES	36	0
AMPHENICOLS	423	0
BETA lactams	4,126,066	2,232
Cloxacillin	156	0
ENROFLOXACIN	671	0
GENTAMICIN	49	0
MACROLIDES	48	0
Tilmicosin	38	0
SPECTINOMYCIN	3	0
SULFONAMIDES	46,588	13
Sulfamethazine	16,876	2
TETRACYCLINES	13,965	14
TOTALS	4,204,919	2,261

**TABLE 5A -- Number of Validated Tests Conducted by
Family/Drug
October 1, 2005 to September 30, 2006**

Family/Drug	Total Tests	Total Positive
AMPHENICOLS	423	0
BETA lactams	4,125,623	2,232
Cloxacillin	156	0
TILMICOSIN	38	0
SULFONAMIDES	31,488	6
TETRACYCLINES	4,146	0
TOTALS	4,161,874	2,238

**TABLE 5B -- Number of Non-Validated Tests Conducted by
Family/Drug
October 1, 2005 to September 30, 2006**

Family/Drug	Total Tests	Total Positive
AMINOGLYCOSIDES	36	0
BETA lactams	443	0
ENROFLOXACIN	671	0
GENTAMICIN	49	0
MACROLIDES	48	0
SPECTINOMYCIN	3	0
SULFONAMIDES	15,100	7
Sulfamethazine	16,876	2
TETRACYCLINES	9,819	14
TOTALS	43,045	23

Table 6 presents details on the tests used. The data in this table are comparable to Table 5, but the data are arranged by tests within each family/drug. Therefore, the Totals are the same in both tables. The testing methods with the largest use were: Charm SL - Beta lactams, which was used more than 2.5 million times, Delvotest P 5 Pack - Beta lactams which was used more than 628 thousand times, Idexx New Snap which was used almost 400 thousand times and Charm II Tablet Competitive - Beta lactams which was used for more than 170 thousand tests. Table 6A shows a comparison of tests conducted using Validated and Non-Validated test methods for Sulfonamides and Tetracyclines.

TABLE 6 - Number of Tests by Method by Family/Drug October 1, 2005 to September 30, 2006			
Tests Used by Family/Drug	Number of Tests	Number Positive	Percent Positive
AMINOGLYCOSIDES			
Charm II Tablet Competitive-N**	36	0	0.000%
AMPHENICOLS			
Charm II Tablet Competitive	423	0	0.000%
BETA lactams			
Charm BSDA Tablet - Beta lactams	60,654	78	0.129%
Charm Farm - Beta lactams**	443	0	0.000%
Charm I/Cowside II Tablet - Beta lactams	3,796	2	0.053%
Charm II Tablet Competitive	170,893	58	0.034%
Charm II Tablet Quantitative	548	0	0.000%
Charm II Tablet Sequential	126,635	70	0.055%
Charm SL Beta lactams	2,575,420	901	0.035%
Charm SL-6	105,859	56	0.053%
Delvotest P 5 Pack - Beta lactams	628,754	813	0.129%
Delvotest P/Delvotest P Mini	29,260	24	0.082%
Delvotest SP/Delvotest SP Mini	2,858	2	0.070%
Idexx New Snap	399,932	217	0.054%
Lak Tek - Beta lactams	6,829	5	0.073%
Parallux Beta lactams Assay	37	0	0.000%
Penzyme III Test - Beta lactams	401	0	0.000%
Penzyme Milk Test - Beta lactams	7,912	2	0.025%
Snap (Reader) - Beta lactams	4,536	3	0.066%
Snap (Visual) - Beta lactams	1,299	1	0.077%
CLOXACILLIN			
Charm II Test for Cloxacillin in Milk	156	0	0.000%

**TABLE 6 - Number of Tests by Method by Family/Drug
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Tests	Number Positive	Percent Positive
ENROFLOXACIN			
Charm SL-Floroquinlone**	671	0	0.000%
GENTAMICIN			
Lak Tek - Gentamicin**	49	0	0.000%
MACROLIDES			
Charm II Tablet Sequential - Macrolides**	48	0	0.000%
TILMICOSIN			
HPLC - Tilmicosin	38	0	0.000%
SPECTINOMYCIN			
Charm II Tablet Competitive**	3	0	0.000%
SULFONAMIDES			
Agri-Screen for Sulfonamides**,**	5,139	2	0.039%
Charm II Tablet Competitive	31,488	6	0.019%
Charm II Tablet Sequential**	5,887	5	0.085%
Parallux Sulfa Trio (Reader)**	4,074	0	0.000%
SULFAMETHAZINE			
Charm SL - Sulfamethazine**	16,876	2	0.012%
TETRACYCLINES			
Charm II Tablet Competitive	4,146	0	0.000%
Charm SL - Tetracyclines**	5,536	13	0.235%
Snap - Tetracyclines**	4,283	1	0.023%
TOTALS	4,204,919	2,261	*

* See Table 1 for explanation

** Non-Validated Test Method

*** FDA evaluated these tests and they do not perform as labeled-see M-I -99-4

**TABLE 6A -- Comparison of Validated and Non-Validated
Tests for Sulfonamides and Tetracyclines
October 1, 2005 to September 30, 2006**

Tests By Method by Family/Drug	Number of Tests	Number Positive	Percent Positive
VALIDATED FOR SULFONAMIDES			
Charm II Tablet Competitive	31,488	6	0.019%
NON-VALIDATED FOR SULFONAMIDES			
Agri-Screen for Sulfonamides** ***	5,139	2	0.039%
Charm II Tablet Sequential**	5,887	5	0.085%
Parallux Sulfa Trio (Reader)**	4,074	0	0.000%
NON-VALIDATED FOR SULFAMETHAZINE			
Charm SL - Sulfamethazine**	16,876	2	0.012%
VALIDATED FOR TETRACYCLINES			
Charm II Tablet Competitive	4,146	0	0.000%
NON-VALIDATED FOR TETRACYCLINES			
Charm SL - Tetracyclines**	5,536	13	0.235%
Snap - Tetracyclines**	4,283	1	0.023%
TOTALS	77,429	29	*

** Non-Validated Test Method

*** FDA evaluated these tests and they do not perform as labeled-see M-I -99-4

Tables 7-1 to 7-8 present additional details of the testing conducted. These Tables show the testing by the family of drugs and by individual drugs and present results in terms of Grade “A” and Non-Grade “A” testing. Data on individual drugs listed in these tables, e.g., Cloxacillin, Sulfamethazine, etc., are not included in the Totals for the family of drugs, e.g, Beta lactams, Sulfonamides, etc.

TABLE 7-1 -- Grade A Bulk Milk Pick-Up Tanker Testing October 1, 2005 to September 30, 2006						
Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
AMINOGLYCOSIDES	36	0	0	0	36	0
AMPHENICOLS	423	0	0	0	423	0
BETA lactams	3,112,383	1,160	12,958	15	3,125,341	1,175
Cloxacillin	156	0	0	0	156	0
ENROFLOXACIN	671	0	0	0	671	0
MACROLIDES	48	0	0	0	48	0
Tilmicosin	38	0	0	0	38	0
SPECTINOMYCIN	0	0	3	0	3	0
SULFONAMIDES	40,700	13	3,703	0	44,403	13
Sulfamethazine	16,364	2	0	0	16,364	2
TETRACYCLINES	10,607	14	2,194	0	12,801	14
TOTALS	3,181,426	1,189	18,858	15	3,200,284	1,204

TABLE 7-2 -- Grade A Pasteurized Fluid Milk and Milk Products Testing October 1, 2005 to September 30, 2006						
Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	2,381	0	39,918	1	42,299	1
GENTAMICIN	0	0	49	0	49	0
SULFONAMIDES	154	0	389	0	543	0
Sulfamethazine	334	0	40	0	374	0
TETRACYCLINES	0	0	173	0	173	0
TOTALS	2,869	0	40,569	1	43,438	1

**TABLE 7-3 -- Grade A Producer Testing
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	422,335	713	161,825	144	584,160	857
SULFONAMIDES	1,310	0	88	0	1,398	0
TOTALS	423,645	713	161,913	144	585,558	857

**TABLE 7-4 -- Grade A Other Testing (milk from silos, over-the-road tankers, etc.)
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	58,058	16	7,040	0	65,098	16
SULFONAMIDES	12	0	232	0	244	0
Sulfamethazine	138	0	0	0	138	0
TETRACYCLINES	991	0	0	0	991	0
TOTALS	59,199	16	7,272	0	66,471	16

**TABLE 7-5 -- Non-Grade A Bulk Milk Pick-Up Tanker Testing
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	244,079	106	10,653	3	254,732	109
TOTALS	244,079	106	10,653	3	254,732	109

**TABLE 7-6 -- Non-Grade A Pasteurized Fluid Milk and Milk Products Testing
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	1,210	0	353	0	1,563	0
TOTALS	1,210	0	353	0	1,563	0

**TABLE 7-7 -- Non-Grade A Producer Testing
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	36,646	72	5,222	1	41,868	73
TOTALS	36,646	72	5,222	1	41,868	73

**TABLE 7-8 -- Non-Grade A Other Testing (milk from silos, over-the-road tankers, etc.)
October 1, 2005 to September 30, 2006**

Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests
BETA lactams	10,578	1	427	0	11,005	1
TOTALS	10,578	1	427	0	11,005	1

Tables 8-1 to 8-8 present details on the number of tests conducted by industry and by State Regulatory Agencies. The data are arranged by test within each family/drug and present results in terms of sample type and Grade "A" and Non-Grade "A" testing.

Table 8-1 -- Number of Tests by Method by Family/Drug Grade A Bulk Milk Pick-Up Tanker October 1, 2005 to September 30, 2006							
Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
AMINOGLYCOSIDES							
Charm II Tablet Competitive-N**	36	0	0	0	36	0	0.000%
AMPHENICOLS							
Charm II Tablet Competitive	423	0	0	0	423	0	0.000%
BETA lactams							
Charm BSDA Tablet - Beta lactams	24,540	22	14	0	24,554	22	0.090%
Charm Farm - Beta lactams**	443	0	0	0	443	0	0.000%
Charm I/Cowside II Tablet - Beta lactams	3,719	2	0	0	3,719	2	0.054%
Charm II Tablet Competitive	168,991	58	10	0	169,001	58	0.034%
Charm II Tablet Quantitative	548	0	0	0	548	0	0.000%
Charm II Tablet Sequential	118,594	70	320	0	118,914	70	0.059%
Charm SL Beta lactams	2,316,347	793	4,436	1	2,320,783	794	0.034%
Charm SL-6	102,356	52	17	0	102,373	52	0.051%
Delvotest P 5 Pack - Beta lactams	5,032	8	2,948	2	7,980	10	0.125%
Delvotest P/Delvotest P Mini	4,705	1	2,800	0	7,505	1	0.013%
Delvotest SP/Delvotest SP Mini	477	0	0	0	477	0	0.000%
Idexx New Snap	347,708	145	2,387	12	350,095	157	0.045%
Lak Tek - Beta lactams	6,829	5	0	0	6,829	5	0.073%

**Table 8-1 -- Number of Tests by Method by Family/Drug
Grade A Bulk Milk Pick-Up Tanker
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
Parallux Beta lactams Assay	0	0	22	0	22	0	0.000%
Penzyme III Test - Beta lactams	401	0	0	0	401	0	0.000%
Penzyme Milk Test - Beta lactams	6,885	2	4	0	6,889	2	0.029%
Snap (Reader) - Beta lactams	4,442	2	0	0	4,442	2	0.045%
Snap (Visual) - Beta lactams	366	0	0	0	366	0	0.000%
CLOXACILLIN							
Charm II Test for Cloxacillin in Milk	156	0	0	0	156	0	0.000%
ENROFLOXACIN							
Charm SL-Floroquinlone**	671	0	0	0	671	0	0.000%
MACROLIDES							
Charm II Tablet Sequential - Macrolides**	48	0	0	0	48	0	0.000%
TILMICOSIN							
HPLC - Tilmicosin	38	0	0	0	38	0	0.000%
SPECTINOMYCIN							
Charm II Tablet Competitive**	0	0	3	0	3	0	0.000%
SULFONAMIDES							
Agri-Screen for Sulfonamides ** ,***	4,549	2	0	0	4,549	2	0.044%
Charm II Tablet Competitive	30,264	6	16	0	30,280	6	0.020%
Charm II Tablet Sequential**	5,887	5	0	0	5,887	5	0.085%
Parallux Sulfa Trio (Reader)**	0	0	3,687	0	3,687	0	0.000%

**Table 8-1 -- Number of Tests by Method by Family/Drug
Grade A Bulk Milk Pick-Up Tanker
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
SULFAMETHAZINE							
Charm SL - Sulfamethazine**	16,364	2	0	0	16,364	2	0.012%
TETRACYCLINES							
Charm II Tablet Competitive	4,146	0	0	0	4,146	0	0.000%
Charm SL - Tetracyclines**	5,536	13	0	0	5,536	13	0.235%
Snap - Tetracyclines**	925	1	2,194	0	3,119	1	0.032%
TOTALS	3,181,426	1,189	18,858	15	3,200,284	1,204	0.038%

** Non-Validated Test Method

*** FDA evaluated these tests and they do not perform as labeled-see M-I -99-4

**Table 8-2 -- Number of Tests by Method by Family/Drug
Grade A Pasteurized Fluid Milk and Milk Products
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm BSDA Tablet - Beta lactams	952	0	1,606	0	2,558	0	0.000%
Charm I/Cowside II Tablet - Beta lactams	0	0	26	0	26	0	0.000%
Charm II Tablet Sequential	0	0	497	0	497	0	0.000%
Charm SL Beta lactams	1	0	800	0	801	0	0.000%
Delvotest P 5 Pack - Beta lactams	1,428	0	34,778	0	36,206	0	0.000%
Delvotest P/Delvotest P Mini	0	0	1,420	1	1,420	1	0.070%
Idexx New Snap	0	0	791	0	791	0	0.000%
GENTAMICIN							
Lak Tek - Gentamicin**	0	0	49	0	49	0	0.000%
SULFONAMIDES							
Charm II Tablet Competitive	154	0	2	0	156	0	0.000%
Parallux Sulfa Trio (Reader)**	0	0	387	0	387	0	0.000%
SULFAMETHAZINE							
Charm SL - Sulfamethazine**	334	0	40	0	374	0	0.000%
TETRACYCLINES							
Snap - Tetracyclines**	0	0	173	0	173	0	0.000%
TOTALS	2,869	0	40,569	1	43,438	1	0.002%

** Non-Validated Test Method

*** FDA evaluated these tests and they do not perform as labeled-see M-I -99-4

**Table 8-3 -- Number of Tests by Method by Family/Drug
Grade A Producer
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm BSDA Tablet - Beta lactams	9,599	26	14,361	15	23,960	41	0.171%
Charm I/Cowside II Tablet - Beta lactams	0	0	12	0	12	0	0.000%
Charm II Tablet Competitive	1,264	0	0	0	1,264	0	0.000%
Charm II Tablet Sequential	0	0	2,212	0	2,212	0	0.000%
Charm SL Beta lactams	3,725	28	2,589	5	6,314	33	0.523%
Charm SL-6	3,233	4	79	0	3,312	4	0.121%
Delvotest P 5 Pack - Beta lactams	383,931	626	138,325	110	522,256	736	0.141%
Delvotest P/Delvotest P Mini	16,216	21	3,195	1	19,411	22	0.113%
Delvotest SP/Delvotest SP Mini	827	2	0	0	827	2	0.242%
Idexx New Snap	3,526	6	1,052	13	4,578	19	0.415%
Snap (Visual) - Beta lactams	14	0	0	0	14	0	0.000%
SULFONAMIDES							
Agri-Screen for Sulfonamides ^{**} , ^{***}	590	0	0	0	590	0	0.000%
Charm II Tablet Competitive	720	0	88	0	808	0	0.000%
TOTALS	423,645	713	161,913	144	585,558	857	0.146%

** Non-Validated Test Method

*** FDA evaluated these tests and they do not perform as labeled-see M-I -99-4

**Table 8-4 -- Number of Tests by Method by Family/Drug
Grade A Other (milk from silos, over-the-road tankers, etc.)
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm BSDA Tablet - Beta lactams	1,003	0	161	0	1,164	0	0.000%
Charm I/Cowside II Tablet - Beta lactams	0	0	4	0	4	0	0.000%
Charm II Tablet Competitive	293	0	0	0	293	0	0.000%
Charm II Tablet Sequential	4,292	0	82	0	4,374	0	0.000%
Charm SL Beta lactams	42,393	5	935	0	43,328	5	0.012%
Charm SL-6	77	0	73	0	150	0	0.000%
Delvotest P 5 Pack - Beta lactams	2,746	0	5,393	0	8,139	0	0.000%
Delvotest P/Delvotest P Mini	819	0	105	0	924	0	0.000%
Delvotest SP/Delvotest SP Mini	1,554	0	0	0	1,554	0	0.000%
Idexx New Snap	4,820	11	273	0	5,093	11	0.216%
Parallux Beta lactams Assay	0	0	11	0	11	0	0.000%
Penzyme Milk Test - Beta lactams	61	0	3	0	64	0	0.000%
SULFONAMIDES							
Charm II Tablet Competitive	12	0	232	0	244	0	0.000%
SULFAMETHAZINE							
Charm SL - Sulfamethazine**	138	0	0	0	138	0	0.000%
TETRACYCLINES							
Snap - Tetracyclines**	991	0	0	0	991	0	0.000%
TOTALS	59,199	16	7,272	0	66,471	16	0.024%

** Non-Validated Test Method

**Table 8-5 -- Number of Tests by Method by Family/Drug
Non-Grade A Bulk Milk Pick-Up Tanker
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm BSDA Tablet - Beta lactams	462	1	0	0	462	1	0.216%
Charm I/Cowside II Tablet - Beta lactams	35	0	0	0	35	0	0.000%
Charm II Tablet Competitive	335	0	0	0	335	0	0.000%
Charm II Tablet Sequential	636	0	2	0	638	0	0.000%
Charm SL Beta lactams	186,328	66	7,337	2	193,665	68	0.035%
Delvotest P 5 Pack - Beta lactams	15,449	7	3,314	1	18,763	8	0.043%
Idexx New Snap	38,862	30	0	0	38,862	30	0.077%
Penzyme Milk Test - Beta lactams	959	0	0	0	959	0	0.000%
Snap (Reader) - Beta lactams	94	1	0	0	94	1	1.064%
Snap (Visual) - Beta lactams	919	1	0	0	919	1	0.109%
TOTALS	244,079	106	10,653	3	254,732	109	0.043%

**Table 8-6 -- Number of Tests by Method by Family/Drug
Non-Grade A Pasteurized Fluid Milk and Milk Products
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Delvotest P 5 Pack - Beta lactams	1,210	0	353	0	1,563	0	0.000%
TOTALS	1,210	0	353	0	1,563	0	0.000%

**Table 8-7 -- Number of Tests by Method by Family/Drug
Non-Grade A Producer
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm BSDA Tablet - Beta lactams	3,901	13	4,055	1	7,956	14	0.176%
Charm SL Beta lactams	819	0	0	0	819	0	0.000%
Delvotest P 5 Pack - Beta lactams	31,415	59	1,167	0	32,582	59	0.181%
Idexx New Snap	511	0	0	0	511	0	0.000%
TOTALS	36,646	72	5,222	1	41,868	73	0.174%

**Table 8-8 -- Number of Tests by Method by Family/Drug
Non-Grade A Other (milk from silos, over-the-road tankers, etc.)
October 1, 2005 to September 30, 2006**

Tests Used by Family/Drug	Number of Industry Tests	Number of Positive Industry Tests	Number of Regulatory Tests	Number of Positive Regulatory Tests	Total Tests	Total Positive Tests	Percent Positive
BETA lactams							
Charm SL Beta lactams	9,683	1	27	0	9,710	1	0.010%
Charm SL-6	0	0	24	0	24	0	0.000%
Delvotest P 5 Pack - Beta lactams	893	0	372	0	1,265	0	0.000%
Idexx New Snap	2	0	0	0	2	0	0.000%
Parallux Beta lactams Assay	0	0	4	0	4	0	0.000%
TOTALS	10,578	1	427	0	11,005	1	0.009%