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OFF-SITE SURVEILLANCE ACTIVITIES OF THE
SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY
from January through June 1969

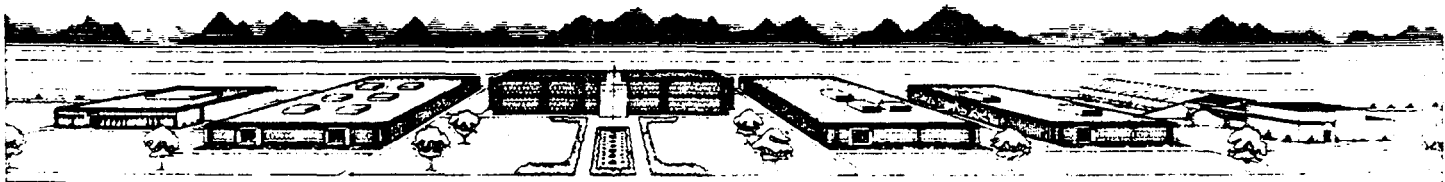
by
Environmental Surveillance
Southwestern Radiological Health Laboratory

ENVIRONMENTAL PROTECTION AGENCY

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ENVIRONMENTAL PROTECTION AGENCY
P. O. BOX 15027
LAS VEGAS, NV 89114

February 1971

This surveillance performed under a Memorandum of
Understanding (No. SF 54 373)
for the
U. S. ATOMIC ENERGY COMMISSION



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* Formerly part of the U. S. Department of Health, Education, and Welfare,
Public Health Service, Environmental Health Service, Environmental Control
Administration, Bureau of Radiological Health.



ABSTRACT

During the period January through June 1969, eleven announced nuclear detonations were conducted at the Atomic Energy Commission's Nevada Test Site. None of these events released radioactive material that was detected off-site.

One power run of a nuclear reactor rocket engine at the Nuclear Rocket Development Station on June 11, 1969, released gaseous fission products that were detected on one air sampler at the Diablo Highway Maintenance Station on Highway 25. The concentration of ^{131}I , determined from the combined results of the particulate and charcoal filters from this location, was 0.7 pCi/m^3 .

Some radioactive material from Project Schooner of December 8, 1968, was re-suspended from material deposited on and off-site. This material was occasionally found on air samples through March 1969. The maximum gross beta concentration resulting from this re-suspension was 55 pCi/m^3 at Clark Station on January 13, 1969. The principal gamma-emitter identified in this material was ^{181}W .

No domestic water or milk samples collected during this period contained fresh fission products.

Exposure to the off-site population during this period was well below the safety criteria established by the Atomic Energy Commission.

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INTRODUCTION

During the period January through June 1969, eleven announced underground nuclear tests were conducted by the U. S. Atomic Energy Commission at the Nevada Test Site. Table 1 lists the announced tests and dates.

TABLE 1

Announced Tests During January 1969 - June 1969

EVENT	DATE	EVENT	DATE
Packard	1/15/69	Blenton	4/30/69
Wineskin	1/15/69	Thistle	4/30/69
Vise	1/30/69	Purse	5/7/69
Cypress	2/12/69	Torrido	5/27/69
Barsac	3/20/69	Tapper	6/12/69
Coffer	3/21/69		

In accordance with a Memorandum of Understanding between the U.S. Atomic Energy Commission (AEC) and the Public Health Service (PHS), the Southwestern Radiological Health Laboratory (SWRHL) conducted a program of radiological monitoring and environmental sampling in the off-site area surrounding the Nevada Test Site (NTS), Nuclear Rocket Development Station, and the Nellis Air Force Range. The overall complex of NTS and the Nellis Air Force Range includes the Nuclear Rocket Development Station and the Tonopah Test Range, and for simplicity will be called the Test Range Complex throughout this report. Although routine sampling and monitoring are routinely conducted within a 300-mile radius around the Test Range Complex, surveillance was extended as necessary to provide adequate coverage.

One power run of the XE-Prime nuclear rocket engine at the Nuclear Rocket Development Station released radioactivity that was detected off the Test Range Complex. This experimental operation was conducted on June 11, 1969.

This report describes the methods and equipment used and summarizes the data collected during this six-month period.

OPERATION PROCEDURES

Monitoring

Before each event, mobile monitoring teams were sent to the off-site areas most likely to be affected by a release of radioactive material. If a release occurred, the teams conducted a monitoring program directed from the AEC Control Point via two-way radio communications. Measurements were made periodically until activity levels returned to background.

Each monitor carried two Eberline E-500B survey meters, an NE-148 scintillation instrument, and a Victoreen Radector Model No. AGB-50B-SR. The Eberline E-500B has a range of 0 to 200 mR/hr for gamma or beta-gamma detection in four scales with an external halogen quenched GM tube, and a 0 to 2000 mR/hr range for gamma detection from an internal Anton 302 GM tube. The NE-148 is used primarily to indicate the presence of low levels of radioactivity and has a range of 0 to 3 mR/hr in three scales. The Radector has a range of 0.05 to 50,000 mR/hr over two logarithmic scales. This instrument uses an inert gas ionization chamber as the detector. These instruments are routinely calibrated to $\pm 20\%$ with a standardized ^{137}Cs source.

Exposure Rate Recorders

To supplement the ground monitoring program, Eberline RM-11 exposure rate recorders were used to document cloud passage at fixed locations. These recorders have a GM tube detector with a 0.01 to 100 mR/hr range, and are calibrated to $\pm 20\%$ with a ^{137}Cs source. The gamma exposure rate is recorded on a 30-hour strip chart. Each monitor was also equipped with two portable battery-operated recorders consisting of an E-500B survey instrument coupled to a Rustrak strip-chart recorder.

Aerial Cloud Tracking

An Air Force U-3A aircraft with two PHS monitors carrying portable instruments similar to those used by ground monitors, was used to track the radioactive effluents. Two PHS cloud sampling and cloud tracking aircraft were also used to obtain in-cloud samples, assess total cloud volume, and provide long-range tracking.

Air Sampling

During this six-month period the SWRHL Air Surveillance Network consisted of 103 stations outside of the Test Range Complex operating in every state west of the Mississippi River except Montana and North Dakota. The air sampler used in the Air Surveillance Network is a Gelman "Tempest," consisting of a Gast Model 1550 vacuum pump driven by an electric motor. The sampler has an approximate flow rate of 10 cfm and uses a 4-inch diameter glass fiber filter. Activated charcoal cartridges were added as necessary, to collect gaseous fission products. The total volume of air sampled is calculated from the average flow rate and the total sampling time. These samplers operate 24 hours a day.

Milk and Water Sampling

The routine milk sampling program from both commercial dairies and private producers continued throughout the six-month period. By August, 40 new stations were added to the standby milk surveillance network bringing it up to 201 stations. These stations can be activated by competent authority at any time. Also, an additional 15 samples were collected to establish background levels for Project Rulison. About 30 sources were routinely sampled during this period, many on a monthly basis. A total of 215 samples were collected from these locations. In the event of cloud passage over a specific area, intensified sampling within the area was conducted to document changes in activity.

Both domestic and non-domestic water supplies were sampled on a routine basis. Water sampling is increased if a release occurs. During this period, 532 water samples were collected from about 95 sources. Thirty-six samples were collected for Project Rulison background.

Vegetation Sampling

Normally, vegetation samples are collected only in the event of a release of radioactive material and analyzed for gross gamma radioactivity to delineate the fallout pattern. Samples of milk cow feed were taken at most locations where milk samples were collected. These samples were given gamma spectral analysis.

Dosimetry

Approximately 87 residents in the off-site area wore film badges throughout this period. These film badges were changed each month and were processed by the Radiological Sciences Department of Reynolds Electrical and Engineering Company, Inc. In addition, 107 film badge stations, each with five badges, were located around the Test Range

Complex and were also exchanged monthly. The badge contains DuPont Type 545 film. The gamma exposure, as determined from this film, is accurate to $\pm 50\%$ in the 30 to 100 mR range and $\pm 10\%$ in the 100 to 2000 mR range.

All of the 107 stations were equipped with three EG&G Model TL-12 thermoluminescent dosimeters (TLD's) which were exchanged monthly with the film badges. The TLD's have a uniform energy response, from 50 keV to several MeV with a low energy cutoff at 50 keV. According to past TLD data, a reading at 10 mR above the previous month's background constitutes a detectable exposure.

Community Relations

Frequent contacts with the off-site population by route monitors and numerous presentations for schools and civic groups provided the opportunity to explain the role of PHS in support of the AEC testing programs. As a result of favorable community relations, a number of off-site residents took part in the environmental sampling program. All routine air sampling stations except Las Vegas were operated by local citizens, and many people volunteered to wear film badge dosimeters.

For some events involving higher yield devices, PHS personnel were required to standby at active mines to notify operators to remain above ground.

Medical and Veterinary Services

A PHS medical officer was available in the event any complaints of a medical nature arose as a result of the test series and to provide liaison with local physicians. No such cases were brought to the attention of the PHS.

Veterinary services were provided by PHS veterinarians. Liaison was maintained with livestock producers in the area and the program of wildlife and cattle investigation was continued.

SAMPLE ANALYSIS

Analytical procedures can be found in Document NV-28, an AEC publication, revised 1968.

SUMMARY OF INDIVIDUAL EVENTS

The only release of radioactive material detected off-site during this period resulted from a power run of the XE-Prime Nuclear Rocket engine on June 11, 1969.

Radioactive material, primarily ^{181}W , was found on some air samples during the early part of this period. This material resulted from re-suspension of radioactive debris deposited on and off-site after the Schooner event of 12/8/68.

XE-PRIME EP-VC, June 11, 1969

Gamma Exposure Rates

No readings above background were observed by monitors or on exposure rate recorders.

Air Sampling

Only one air sample, from the Diablo Maintenance Station on Highway 25, contained fission products from this test. The average gross beta particulate concentration over the period from 0645 hours on

June 11 to 0645 hours on June 12 was 2.4 pCi/m^3 . A total of 0.7 pCi/m^3 of ^{131}I was determined from the filter and charcoal cartridge.

Milk Sampling

Milk samples were collected at the Sharpe Ranch at Nyala, Nevada, on June 12 and 13. No fresh fission products were detected. All milk sample results for the six-month period are listed in Appendix A.

Water Sampling

Water collected at Nyala at the same time the milk was collected showed no fresh fission products. Two water samples collected from rain puddles on Highway 25 and the Nyala road on June 12 contained ^{131}I , ^{132}Te , and ^{133}I .

Dosimetry

No film badges or thermoluminescent dosimeters collected following EP VC showed any exposures above background.

SCHOONER RE-SUSPENSION

Air Samplers

Small concentrations of ^{181}W were occasionally found on air sample filters primarily to the north-northeast of the Test Range Complex through March 1969. The highest concentration was found at Clark Station on January 13, 1969. The particulate filter at this location showed 55 pCi/m^3 gross beta.

CONCLUSIONS

Results obtained through environmental radiation surveillance during this period indicate that no individual in the off-site area received an exposure, resulting from Nevada Test Site operations, which exceeded the guides established by the AEC and/or recommended by the Federal Radiation Council.

APPENDIX

Milk sample results for the six-month period.

Note:

The first line of each sample listing gives the location of the sample source, the identification number assigned to the sample when it arrives at the laboratory, and the date the sample was collected. The remaining lines show the nuclides present in the sample in units of picocuries per liter, except for calcium and potassium which are given in units of grams per liter.

Routinely, analysis is made for the following eight nuclides: ^{144}Ce , ^{131}I , ^{106}Ru , ^{137}Cs , ^{95}Zr , ^{54}Mn , ^{40}K , and ^{140}Ba . These nuclides are listed only when they are present in detectable quantities. When samples are collected for particular events, analysis is generally done for ^{133}I in place of ^{106}Ru .

The nuclides which are processed by radiochemistry methods--Ca, ^{89}Sr , ^{90}Sr --are listed if radiochemistry is performed, even if they are not detectable. If ^{89}Sr is not detectable, it is listed as "B," which signifies <5 pCi/l. If ^{90}Sr is not detectable, it is listed as "D," which signifies <0.1 pCi/l.

Some of the values are listed in exponential form:

$3.0\text{E}01 = 3.0 \times 10^1 = 30$; $5.5\text{E}02 = 5.5 \times 10^2 = 550$, etc.

APPENDIX

OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51027007104911061198 01 07 69 8390006 K=1.7E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51027007104911061968 02 13 69 8390006 K=1.6E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51027007104911062388 03 03 69 8390006 K=1.7E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51027007104911062942 04 07 69 6390006 K=1.4E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51027007104911063877 05 04 69 8390006 K=1.3E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51027007104911067157 06 04 69 8390006 K=1.4E00 89SR=LT(5)
BARSTOW CALIF HILL'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51027007104911068155 06 30 69 8390006 K=1.4E00 89SR=LT(5)
BIG PINE CALIF DUNAGAN RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51036502704913061199 01 09 69 8390009 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

APPENDIX

OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

BIG PINE CALIF DUNAGAN RANCH 131I=LT(10) 137CS=1.0E01 90SR=6	AM 51036502704913062943 04 07 69 8390009 K=1.9E00 89SR=6
BIG PINE CALIF DUNAGAN RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51036502704913063878 05 06 69 8390009 K=1.5E00 89SR=LT(5)
BIG PINE CALIF DUNAGAN RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51036502704913067158 06 04 69 8390009 K=1.7E00 89SR=LT(5)
BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51037002704911061197 01 08 69 8290021 K=1.4E00 89SR=LT(5)
BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51037002704911061970 02 13 69 8290021 K=1.3E00 89SR=LT(5)
BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51037002704911062386 03 04 69 8290021 K=1.6E00 89SR=LT(5)
BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=5	PM 51037002704911062945 04 07 69 8290021 K=1.3E00 89SR=LT(5)
BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51037002704911063875 05 06 69 8290021 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
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BISHOP CALIF SIERRA FARMS 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51037002704911067156 06 03 69 8290021 K=1.5E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51185502704911061196 01 08 69 8390023 K=1.5E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51185502704911061967 02 12 69 8390023 K=1.6E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51185502704911062389 03 05 69 8390023 K=1.3E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51185502704911062944 04 07 69 8390023 K=1.4E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=2.0E01 90SR=2	AM 51185502704911063879 05 05 69 8390023 K=1.5E00 89SR=LT(5)
LONE PINE CALIF LONE PINE DAIRY 131I=LT(10) 137CS=2.0E01 90SR=2	AM 51185502704911067155 06 04 69 8390023 K=1.4E00 89SR=LT(5)
DLANCHA CALIF HAYHURST RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51237502704913061969 02 13 69 6370020 K=1.2E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
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OLANCHA CALIF HAYHURST RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51237502704913062387 03 04 69 6370020 K=1.4E00 89SR=LT(5)
OLANCHA CALIF HAYHURST RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51237502704913062946 04 07 69 6370020 K=1.7E00 89SR=LT(5)
OLANCHA CALIF HAYHURST RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51237502704913063876 05 05 69 6370020 K=1.4E00 89SR=LT(5)
OLANCHA CALIF HAYHURST RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51237502704913067154 06 03 69 6370020 K=1.6E00 89SR=LT(5)
COLLBRAN COLO C W YOUNG DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 54008807705812063533 04 23 69 6292139 K=1.3E00 89SR=LT(5)
COLLBRAN COLO WILLIAM C EARLEY RANCH 131I=LT(10) 137CS=2.0E01 SR90=11	AM 54008807705811063531 04 23 69 6992151 K=1.5E00 SR89=9
COLLBRAN COLO ARTHUR LINN RANCH 131I=LT(10) 137CS=LT(10) 90SR=11	AM 54008807705813063532 04 23 69 2202187 K=1.3E00 89SR=7
COLLBRAN COLO CLIFFORD HILL RANCH 131I=LT(10) 137CS=LT(10) 90SR=7	PM 54008807705813063529 04 22 69 6292190 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
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GLENWOOD SPRGS COLD ROCK N PINES DAIRYAM 131I=LT(10) 137CS=LT(10) 90SR=4	54022004505812063599 04 24 69 7992456 K=1.5E00 89SR=LT(5)
MESA COLD RUPERT W WASSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 54037707705812063535 04 22 69 8292014 K=1.3E00 89SR=LT(5)
MOLINA COLD GLENN TAYLOR DAIRY 131I=LT(10) 137CS=LT(10) 90SR=5	AM 54038307705812063530 04 22 69 6992111 K=1.6E00 89SR=LT(5)
MOLINA COLD MRS GEORGE CURRIER RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	R 54038307705813063537 04 22 69 8292189 K=1.6E00 89SR=LT(5)
RIFLE COLD ALEX C URQUHART DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 54041804505812063600 04 24 69 7992177 K=1.7E00 89SR=LT(5)
RULISON COLD DONALD BURTARD RANCH 131I=LT(10) 137CS=LT(10) 90SR=7	AM 54042704505813063538 04 23 69 4212005 K=1.4E00 89SR=LT(5)
RULISON COLD FELIX S SEFCOVIC RANCH 131I=LT(10) 137CS=LT(10) 90SR=6	AM 54042704505813063560 04 22 69 4232136 K=1.3E00 89SR=LT(5)
RULISON COLD BILLIE LEE SMITH RANCH 131I=LT(10) 137CS=LT(10) 90SR=6	AM 54042704505813063534 04 23 69 4332138 K=1.1E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
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COLLECTED

SILT COLD RUFUS RALEY RANCH 131I=LT(10) 137CS=1.0E01 90SR=5	AM 54045104505813063536 04 23 69 4232223 K=1.6E00 89SR=LT(5)
SILT COLD DON JACKETT RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 54045104505813063528 04 23 69 4232229 K=1.5E00 89SR=LT(5)
SILT COLD EMIL LOPEZ RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	AM 54045104505813063539 04 23 69 4332296 K=1.2E00 89SR=6
ALAMO NEV STEWART'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51014001727912061184 01 08 69 1930078 K=1.4E00 89SR=LT(5)
ALAMO NEV STEWART'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51014001727912061826 02 05 69 6990078 K=1.6E00 89SR=LT(5)
ALAMO NEV STEWART'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51014001727912062516 03 12 69 6990078 K=1.4E00 89SR=LT(5)
ALAMO NEV STEWART'S DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51014001727912062842 04 03 69 6990078 K=1.3E00 89SR=LT(5)
ALAMO NEV SEIP DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51014001727912063844 05 08 69 9990079 K=1.5E00 89SR=LT(5)

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COLLECTED

ALAMO NEV SEIP DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51014001727912067080 06 03 69 9990079 K=1.3E00 89SR=LT(5)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51018701527913061289 01 07 69 1930010 K=1.7E00 89SR=LT(5)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=1.0E01 89SR=LT(5) 90SR=2	PM 51018701527913061992 02 11 69 1930010 K=1.7E00 140BA=LT(10)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51018701527913062722 03 20 69 1930010 K=1.5E00 89SR=LT(5)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51018701527913063000 04 08 69 1930010 K=1.6E00 89SR=LT(5)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51018701527913063859 05 06 69 1930010 K=1.5E00 89SR=LT(5)
AUSTIN NEV YOUNG'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51018701527913067195 06 04 69 1930010 K=1.9E00 89SR=LT(5)
AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51018702327913061290 01 07 69 1930016 K=1.3E00 89SR=LT(5)

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FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
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AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51018702327913061991 02 10 69 1930016 K=1.9E00 89SR=LT(5)
AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51018702327913062723 03 20 69 1930016 K=1.6E00 89SR=LT(5)
AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=1.0E01 90SR=4	AM 51018702327913062999 04 08 69 1930016 K=1.5E00 89SR=LT(5)
AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51018702327913063861 05 06 69 1930016 K=1.5E00 89SR=LT(5)
AUSTIN NEV TRIPLE T RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51018702327913067198 06 04 69 1930016 K=1.8E00 89SR=LT(5)
BATTLE MT NEV T LAZY S RANCH 131I=LT(10) 137CS=1.0E01 90SR=6	PM 51020801527913061738 01 28 69 6990050 K=1.6E00 89SR=LT(5)
BATTLE MT NEV T LAZY S RANCH 131I=LT(10) 137CS=LT(10)	PM 51020801527913062768 03 24 69 6990050 89SR=LT(5) 90SR=2
BATTLE MT NEV T LAZY S RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51020801527913063358 04 16 69 6990050 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

BELMONT NEV PINE CREEK RANCH 131I=LT(10) 137CS=5.0E01 90SR=5	AM 51021402327913061291 01 07 69 1910020 K=1.3E00 SR89=LT(5)
BELMONT NEV PINE CREEK RANCH 131I=LT(10) 137CS=LT(10) 90SR=9	AM 51021402327913063860 05 05 69 1930020 K=1.6E00 89SR=LT(5)
BEDWAWE NEV FRIESEN RANCH 131I=LT(10) 137CS=LT(10) 90SR=6	PM 51021601127913061741 01 28 69 6990070 K=1.7E00 89SR=LT(5)
BEDWAWE NEV FRIESEN RANCH 131I=LT(10) 137CS=1.0E01 90SR=6	PM 51021601127913062763 03 24 69 6990070 K=1.8E00 89SR=LT(5)
BEDWAWE NEV FRIESEN RANCH 131I=LT(10) 137CS=1.0E01 90SR=8	51021601127913063974 05 07 69 6990070 K=1.9E00 89SR=LT(5)
BEDWAWE NEV FRIESEN RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51021601127913067178 06 02 69 6990070 K=1.8E00 89SR=LT(5)
CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51030401727913061186 01 07 69 6990067 K=1.7E00 89SR=LT(5)
CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51030401727913061827 02 04 69 6990067 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	PM 51030401727913062513 03 11 69 6990067 K=1.3E00 89SR=LT(5)
CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51030401727913062851 04 03 69 6990067 K=1.6E00 89SR=LT(5)
CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51030401727913063843 05 06 69 8990067 K=1.4E00 89SR=LT(5)
CALIENTE NEV YOUNG RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51030401727913067081 06 03 69 8990067 K=1.2E00 89SR=LT(5)
CURRENT NEV BLUE EAGLE RANCH 131I=LT(10) 137CS=4.0E01 90SR=5	PM 51038602327913060958 01 01 69 1730099 K=1.7E00 89SR=LT(5)
CURRENT NEV BLUE EAGLE RANCH 131I=LT(10) 137CS=4.0E01 90SR=4	PM 51038602327913062270 02 18 69 6790099 K=1.6E00 89SR=LT(5)
CURRENT NEV BLUE EAGLE RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51038602327913062451 03 05 69 6790099 K=1.5E00 89SR=LT(5)
CURRENT NEV BLUE EAGLE RANCH 131I=LT(10) 137CS=1.0E01 90SR=4	AM 51038602327913066786 05 20 69 8790099 K=1.1E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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CURRANT NEV BLUE EAGLE RANCH 131I=LT(10) 137CS=2.0E01 90SR=2	PM 51038602327913067256 06 04 69 8790099 K=2.0E00 89SR=LT(5)
CURRIE NEV BILL LEAR RANCH 131I=LT(10) 137CS=LT(10) 90SR=6	PM 51038800727913063356 04 14 69 1210048 K=1.4E00 89SR=LT(5)
CURRIE NEV BILL LEAR RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51038800727913063972 05 07 69 1210048 K=1.7E00 89SR=LT(5)
CURRIE NEV KITT LEAR RANCH 131I=LT(10) 137CS=2.0E01 90SR=5	AM 51038800727913061739 01 27 69 1210100 K=1.8E00 89SR=LT(5)
CURRIE NEV KITT LEAR RANCH 131I=LT(100) 137CS=LT(100) 90SR=6	AM 51038800727913062764 03 27 69 1230100 89SR=LT(5) 90SR=6
DEETH NEV LOTSPEICH RANCH 131I=LT(10) 137CS=2.0E01 90SR=5	AM 51041100727913062765 03 25 69 6990136 K=1.5E00 89SR=LT(5)
DEETH NEV LOTSPEICH RANCH 131I=LT(10) 137CS=1.0E01 90SR=11	PM 51041100727913063354 04 14 69 6990136 K=1.3E00 89SR=LT(5)
DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51048002327913060923 01 01 69 1230105 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=1.0E01 90SR=5	AM 51048002327913062272 02 18 69 1230105 K=1.6E00 89SR=LT(5)
DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51048002327913062452 03 06 69 1230105 K=1.6E00 89SR=LT(5)
DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51048002327913063075 04 09 69 1230105 K=1.4E00 89SR=LT(5)
DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=1.0E01 90SR=3	AM 51048002327913066789 05 20 69 8290105 K=1.6E00 89SR=LT(5)
DUCKWATER NEV HALSTEAD RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51048002327913067255 06 05 69 8290105 K=1.7E00 89SR=LT(5)
ELKO NEV ANCHOR S RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51054400727913061737 01 28 69 6990194 K=1.6E00 89SR=LT(5)
ELKO NEV ANCHOR S RANCH 131I=LT(10) 137CS=LT(10)	AM 51054400727913062767 03 27 69 6990194 89SR=LT(5) 90SR=4
ELKO NEV ANCHOR S RANCH 131I=LT(100) 137CS=LT(100)	AM 51054400727913063359 04 16 69 6990194 89SR=LT(5) 90SR=4
ELKO NEV ANCHOR S RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51054400727913063975 05 08 69 6990194 K=1.5E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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ELKO NEV ANCHOR S RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51054400727913067180 06 04 69 6990194 K=1.7E00 89SR=LT(5)
EUREKA NEV MARTIN RANCH 131I=LT(100) 137CS=LT(100)	AM 51058602327913061288 01 07 69 1930079 89SR=LT(5) 90SR=5
EUREKA NEV MARTIN RANCH 131I=LT(10) 137CS=LT(10) 90SR=7	AM 51058602327913061990 02 10 69 1930079 K=1.6E00 89SR=LT(5)
EUREKA NEV MARTIN RANCH 131I=LT(100) 137CS=LT(100)	AM 51058602327913063001 04 07 69 1930079 89SR=LT(5) 90SR=8
EUREKA NEV MARTIN RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51058602327913067196 06 03 69 1930079 K=2.0E00 89SR=LT(5)
HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51083401727912061185 01 08 69 6990057 K=1.5E00 89SR=LT(5)
HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51083401727912061825 02 05 69 6990057 K=1.6E00 89SR=LT(5)
HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51083401727912062515 03 13 69 6990057 K=1.6E00 89SR=LT(5)
HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 137CS=1.0E01 90SR=3	AM 51083401727912062850 04 02 69 6990057 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 90SR=3	137CS=LT(10)	AM 51083401727912063845 05 08 69 9990057 K=1.5E00 89SR=LT(5)
HIKO NEV SCHOFIELD DAIRY 131I=LT(10) 90SR=2	137CS=LT(10) 3H=LT4E02	AM 51083401727912067084 06 03 69 9990057 K=1.5E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=LT(2)	137CS=LT(10)	AM 51095100327913061121 01 06 69 4730203 K=1.7E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=2	137CS=LT(10)	AM 51095100327913061855 02 05 69 6790203 K=1.8E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=4	137CS=LT(10)	AM 51095100327913062496 03 11 69 6790203 K=1.8E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=LT(2)	137CS=LT(10)	AM 51095100327913062968 04 07 69 6790203 K=1.6E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=LT(2)	137CS=LT(10)	AM 51095100327913063893 05 06 69 6790203 K=1.5E00 89SR=LT(5)
INDIAN SPRINGS NEV INDIAN SPRINGS RCH 131I=LT(10) 90SR=LT(2)	137CS=LT(10)	AM 51095100327913067150 06 03 69 6790203 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=2.0E01 90SR=3	AM 51120700327912061335 01 13 69 6990129 K=1.9E00 89SR=LT(5)
LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51120700327912061897 02 09 69 6960129 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327912062548 03 17 69 6960129 K=1.4E00 89SR=LT(5)
LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327912062839 04 04 69 0000129 K=1.5E00 89SR=LT(5)
LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327912064044 05 12 69 9990129 K=1.4E00 89SR=LT(5)
LAS VEGAS NEV LDS DAIRY FARMS 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327912067270 06 10 69 9990129 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51120700327911061333 01 10 69 0000302 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911061898 02 10 69 0000302 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=1.0E01 90SR=3	AM 51120700327911062542 03 17 69 0000302 K=1.5E00 89SR=LT(5)
LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911062838 04 04 69 0000302 K=1.7E00 89SR=LT(5)
LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51120700327911064045 05 13 69 0000302 K=1.3E00 89SR=LT(5)
LAS VEGAS NEV ANDERSON DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911067269 06 09 69 0000302 K=1.8E00 89SR=LT(5)
LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51120700327911061334 01 10 69 0000303 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51120700327911061899 02 10 69 0000303 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51120700327911062549 03 17 69 0000303 K=1.5E00 89SR=LT(5)
LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911062837 04 04 69 0000303 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911064043 05 13 69 0000303 K=1.6E00 89SR=LT(5)
LAS VEGAS NEV ARDEN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120700327911067268 06 09 69 0000303 K=1.7E00 89SR=LT(5)
LATHROP WELLS NEV DANSBY'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120902327913067152 06 04 69 6990065 K=1.6E00 89SR=LT(5)
LATHROP WELLS NEV JOHNNY F MILLS RCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120902327913062970 04 08 69 6490127 K=1.5E00 89SR=LT(5)
LATHROP WELLS NEV HORDS RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	PM 51120902327913061122 01 06 69 6490206 K=1.6E00 89SR=LT(5)
LATHROP WELLS NEV HORDS RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120902327913061856 02 06 69 6490206 K=1.6E00 89SR=LT(5)
LATHROP WELLS NEV HORDS RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51120902327913062487 03 12 69 6490206 K=1.5E00 89SR=LT(5)
LIDA NEV LIDA LIVESTOCK 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51123000927913062721 03 17 69 1930001 K=1.2E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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COLLECTED

LIDA NEV LIDA LIVESTOCK 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51123000927913063002 04 06 69 1930001 K=1.3E00 89SR=LT(5)
LIDA NEV LIDA LIVESTOCK 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51123000927913063862 05 04 69 1930001 K=1.5E00 89SR=LT(5)
LIDA NEV LIDA LIVESTOCK 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51123000927913067197 06 02 69 1930001 K=1.7E00 89SR=LT(5)
LOGANDALE NEV VEGAS VALLEY DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51125200327912061877 02 07 69 0000301 K=1.6E00 89SR=LT(5)
LOGANDALE NEV VEGAS VALLEY DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51125200327912062412 03 04 69 0000301 K=1.4E00 89SR=LT(5)
LOGANDALE NEV VEGAS VALLEY DAIRY 131I=LT(10) 137CS=LT(10) CHEM	AM 51125200327912063059 04 08 69 0000301 K=1.6E00 NO
LOGANDALE NEV VEGAS VALLEY DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51125200327912063930 05 07 69 0000301 K=1.6E00 89SR=LT(5)
LOGANDALE NEV VEGAS VALLEY DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51125200327912067262 06 09 69 0000301 K=1.8E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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COLLECTED

LUND NEV MCKENZIE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51128503327912062273 02 19 69 6990077 K=1.4E00 89SR=LT(5)
LUND NEV MCKENZIE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=5	AM 51128503327912062453 03 05 69 6990077 K=1.4E00 89SR=LT(5)
LUND NEV MCKENZIE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=6	AM 51128503327912063072 04 09 69 6990077 K=1.6E00 89SR=LT(5)
LUND NEV MCKENZIE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51128503327912066790 05 22 69 6990077 K=1.6E00 89SR=LT(5)
LUND NEV MCKENZIE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51128503327912067825 06 16 69 6990077 K=1.5E00 89SR=LT(5)
MCGILL NEV LARSEN RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51130303327913062450 03 06 69 6990030 K=1.7E00 89SR=LT(5)
MCGILL NEV LARSEN RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	PM 51130303327913063067 04 09 69 6990030 K=1.7E00 89SR=LT(5)
MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	PM 51131600327912060900 01 02 69 9380062 K=1.6E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51131600327912061912 02 10 69 9380062 K=1.3E00 89SR=LT(5)
MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=1.0E01 90SR=LT(2)	AM 51131600327912062410 03 04 69 9380062 K=1.4E00 89SR=LT(5)
MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51131600327912063620 04 28 69 9380062 K=1.4E00 89SR=LT(5)
MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51131600327912063932 05 07 69 9380062 K=1.6E00 89SR=LT(5)
MESQUITE NEV HUGHES BROS DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51131600327912067509 06 12 69 9380062 K=1.5E00 89SR=LT(5)
MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51135000327912061188 01 07 69 6990071 K=1.7E00 89SR=LT(5)
MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=1.0E01 90SR=LT(2)	PM 51135000327912061828 02 03 69 6990071 K=1.7E00 89SR=LT(5)
MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	PM 51135000327912062519 03 10 69 6990071 K=1.3E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51135000327912062849 04 02 69 9990071 K=1.6E00 89SR=LT(5)
MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51135000327912063842 05 05 69 6990071 K=1.5E00 89SR=LT(5)
MOAPA NEV SEARLES DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51135000327912067082 06 02 69 6990071 K=1.6E00 89SR=LT(5)
MONTELLO NEV GAMBLE 4 MILE RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51135500727913061740 01 27 69 1930030 K=1.8E00 89SR=LT(5)
MONTELLO NEV KAY KIMBER RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51135500727913063357 04 15 69 6990034 K=1.3E00 89SR=LT(5)
MONTELLO NEV KAY KIMBER RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51135500727913067174 06 03 69 6990034 K=1.5E00 89SR=LT(5)
NYALA NEV SHARP'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51149002327913061524 01 14 69 1910054 K=1.7E00 89SR=LT(5)
NYALA NEV SHARP'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51149002327913062425 03 05 69 6990054 K=1.5E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

COLLECTED

NYALA NEV SHARP'S RANCH 131I=LT(10) 137CS=1.0E01 90SR=2	AM 51149002327913063034 04 10 69 8990054 K=1.6E00 89SR=LT(5)
NYALA NEV SHARP'S RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51149002327913063925 05 07 69 8990054 K=1.7E00 89SR=LT(5)
NYALA NEV SHARP'S RANCH 131I=LT(10) 137CS=LT(10)	AM 51149002327913067199 06 03 69 8990054 K=1.8E00 3H=LT4E02
NYALA NEV SHARP'S RANCH 131I=LT(10) 133I=LT(10) 89SR=LT(5) 90SR=4	AM 53149002327913067448 06 12 69 1332054 137CS=LT(10) K=1.6E00
NYALA NEV SHARP'S RANCH 131I=LT(100) 133I=LT(100) 90SR=2	AM 53149002327913067497 06 13 69 1332054 137CS=LT(100) 89SR=LT(5)
PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51160202327913061283 01 08 69 1930169 K=1.7E00 89SR=LT(5)
PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51160202327913061858 02 07 69 1930169 K=1.5E00 89SR=LT(5)
PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51160202327913062492 03 12 69 1930169 K=1.3E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

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PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 5116020327913062967 04 09 69 1930169 K=1.2E00 89SR=LT(5)
PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 5116020327913063931 05 09 69 1930169 K=1.4E00 89SR=LT(5)
PAHRUMP NEV ANDERSON RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 5116020327913067151 06 05 69 1930169 K=1.5E00 89SR=LT(5)
PANACA NEV KENNETH LEE RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51160601727913061187 01 08 69 6990069 K=1.3E00 89SR=LT(5)
PANACA NEV KENNETH LEE RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51160601727913061824 02 05 69 6990069 K=1.5E00 89SR=LT(5)
PANACA NEV KENNETH LEE RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51160601727913063846 05 07 69 8990069 K=1.4E00 89SR=LT(5)
PANACA NEV KENNETH LEE RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51160601727913067083 06 04 69 8990069 K=1.6E00 89SR=LT(5)
SHOSHONE NEV KIRKEBY RANCH 131I=LT(10) 137CS=LT(10)	PM 51192503327913062762 03 18 69 0200003 89SR=LT(5) 90SR=5

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

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SHOSHONE NEV KIRKEBY RANCH 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51192503327913063069 04 10 69 1210003 K=1.5E00 89SR=LT(5)
SHOSHONE NEV KIRKEBY RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51192503327913066788 05 21 69 8290003 K=1.5E00 89SR=LT(5)
SPRINGDALE NEV MCCURDY RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51196402327913061120 01 06 69 6190337 K=1.5E00 89SR=LT(5)
SPRINGDALE NEV MCCURDY RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51196402327913061857 02 06 69 6190337 K=1.4E00 89SR=LT(5)
SPRINGDALE NEV MCCURDY RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51196402327913062969 04 08 69 6190337 K=1.2E00 89SR=LT(5)
SPRINGDALE NEV MCCURDY RANCH 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51196402327913063896 05 08 69 6190337 K=1.7E00 89SR=LT(5)
SPRINGDALE NEV MCCURDY RANCH (ALT 174) 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51196402327913067153 06 04 69 6190337 K=1.5E00 89SR=LT(5)
WELLS NEV WILLOW CREEK RANCH 131I=LT(10) 137CS=LT(10) 90SR=5	PM 51231600727913061736 01 27 69 1930121 K=1.5E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

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WELLS NEV WILLOW CREEK RANCH 131I=LT(10) 137CS=LT(10) 90SR=6	AM 51231600727913062761 03 24 69 1930121 K=1.6E00 89SR=LT(5)	
WELLS NEV WILLOW CREEK RANCH 131I=LT(10) 137CS=LT(10) 90SR=8	PM 51231600727913063355 04 14 69 1930121 K=1.3E00 89SR=LT(5)	
WELLS NEV WILLOW CREEK RANCH 131I=LT(10) 137CS=LT(10) 90SR=8	PM 51231600727913063973 05 07 69 1930121 K=1.6E00 89SR=LT(5)	
ALAMOGORDO N MEX CITY DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 56001003530712062581 03 18 69 K=1.6E00 89SR=LT(5)	106
CARLSBAD N MEX JOE BRYAN DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 56007001530712062597 03 18 69 K=1.5E00 89SR=LT(5)	107
FARMINGTON N MEX CREAMLAND DAIRIES 131I=LT(10) 137CS=LT(10) 90SR=2	AM 56012004530712062604 03 18 69 K=1.6E00 89SR=LT(5)	101
GILA N MEX ROSEDALE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 56013501730712062630 03 18 69 K=1.4E00 89SR=LT(5)	104
LAS VEGAS N MEX SIERRA GOLD DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 56018004730712062603 03 17 69 K=1.5E00 89SR=LT(5)	102

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
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TUCUMCARI N MEX CRESCENT DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	PM 56032003730712062580 03 17 69 K=1.7E00 89SR=LT(5)	103
UNIVERSITY PARK N MEX COLLEGE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	AM 56033201330712062602 03 18 69 K=1.9E00 89SR=LT(5)	105
GARRISON UTAH GONDERS RANCH 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51070602743813060929 01 02 69 K=1.5E00 89SR=LT(5)	1910006
GARRISON UTAH GONDERS RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51070602743813062271 02 22 69 K=1.6E00 89SR=LT(5)	1910006
GARRISON UTAH GONDERS RANCH 131I=LT(10) 137CS=2.0E01 90SR=4	AM 51070602743813062766 03 19 69 K=2.1E00 89SR=LT(5)	6990006
GARRISON UTAH GONDERS RANCH 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51070602743813063066 04 10 69 K=1.8E00 89SR=LT(5)	1910006
NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	PM 51141802143812060899 01 02 69 K=1.6E00 89SR=LT(5)	1730001
NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51141802143812061913 02 10 69 K=1.3E00 89SR=LT(5)	1730001

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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OFF-SITE MILK JANUARY THROUGH JUNE 1969

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NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	PM 51141802143812062411 03 04 69 1730001 K=1.5E00 89SR=LT(5)
NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) CHEM	AM 51141802143812063060 04 09 69 1730001 K=1.4E00 ND
NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	PM 51141802143812063933 05 08 69 1730001 K=1.5E00 89SR=LT(5)
NEWCASTLE UTAH NEWCASTLE DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	PM 51141802143812067510 06 12 69 1730001 K=1.5E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812060943 01 03 69 6490001 K=1.5E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812061318 01 10 69 6490001 K=1.3E00 SR89=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812061530 01 17 69 6490001 K=1.4E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812061641 01 24 69 6490001 K=1.3E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812061755 01 31 69 6490001 K=1.5E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51190005343812061880 02 07 69 6490001 K=1.3E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812061998 02 14 69 6490001 K=1.3E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812062247 02 21 69 6490001 K=1.4E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812062331 02 28 69 6490001 K=1.3E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812062438 03 07 69 6490001 K=1.2E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812062540 03 14 69 6490001 K=1.3E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812062652 03 21 69 6490001 K=1.5E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
 LT(X) DENOTES A RESULT LESS THAN X.

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ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812062740 03 28 69 6490001 K=1.4E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812062869 04 04 69 6490001 K=1.6E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812063086 04 11 69 6490001 K=1.5E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51190005343812063394 04 18 69 6490001 K=1.6E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812063593 04 25 69 6490001 K=1.3E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812063775 05 02 69 6490001 K=1.6E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812063945 05 09 69 6490001 K=1.6E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51190005343812066606 05 16 69 6490001 K=1.4E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
 FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
 SURVEILLANCE AIR RESULTS ARE PCI/M3,
 SOIL RESULTS ARE PCI/GM,
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ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=2	AM 51190005343812066797 05 23 69 6490001 K=1.6E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812066954 05 30 69 6490001 K=1.7E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=3	AM 51190005343812067248 06 06 69 6490001 K=1.4E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812067535 06 13 69 6490001 K=1.5E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=LT(2)	AM 51190005343812067785 06 20 69 6490001 K=1.7E00 89SR=LT(5)
ST GEORGE UTAH R COX DAIRY 131I=LT(10) 137CS=LT(10) 90SR=4	AM 51190005343812067998 06 27 69 6490001 K=1.54E00 89SR=LT(5)

NOTE--MILK, WATER, RADON UNITS ARE PCI/L, EXCEPT K=GM/L,
FOOD AND FEED UNITS ARE PCI/KGM, EXCEPT K=GM/KGM,
SURVEILLANCE AIR RESULTS ARE PCI/M3,
SOIL RESULTS ARE PCI/GM,
LT(X) DENOTES A RESULT LESS THAN X.