UC-48

ISSUED: January 1973



Plutonium in Autopsy Tissue

by

Evan E. Campbell Morris F. Milligan William D. Moss Harry F. Schulte James F. McInroy

Work partially supported by the US AEC Division of Biology and Medicine.

PLUTONIUM IN AUTOPSY TISSUE

by

Evan E. Campbell, Morris F. Milligan, William D. Moss, Harry F. Schulte, and James F. McInroy

ABSTRACT

Since 1959, selected tissues from deceased humans have been examined for the presence of plutonium. The original purpose was to correlate plutonium body burden calculated from urine assay and actual burden determined by analysis of autopsy materials. The tissues have provided data on plutonium deposition in man resulting from general distribution of plutonium in the environment through global fallout and that resulting from plutonium fabrication or research and development operations.

Lung, liver, kidney, lymph, and skeletal tissue are the principal materials examined. The analytical data, the significance of the findings, and the considerable uncertainties in the radiochemical analysis and calculations are discussed. The data will be completely evaluated in other Los Alamos Scientific Laboratory reports.

The results are contained in the appendixes to this report. Median concentrations in the organs and tissues of a general population (not occupationally exposed) were (each number represents dis/min Pu per kg): liver,1.4; lung, 0.8; lymph nodes, 3.0; bone, 0.6; and kidney, 0.6. Plutonium concentration is generally higher in the tissues of those who have been occupationally exposed to plutonium; the concentration obviously depends upon the nature of the exposure and its severity and duration.

I. INTRODUCTION

Since 1959, the Los Alamos Scientific Laboratory Industrial Hygiene Group has collected necropsy material for analysis. The analysis consists of plutonium measurement by variations of the methods routinely used in the bioassay program to determine plutonium in the urine of employees potentially exposed to plutonium.

The original intent of our tissue-analysis effort was to seek confirmation or denial of the validity of estimates of plutonium body burdens by urinalysis. In at least one notable case, confirmation of estimates of body burden made during life was obtained by analysis of tissues from the deceased. The ubiquity of plutonium in the environment has since led us to examine autopsy material from

the general population, to learn whether plutonium exists in detectable amounts in the tissues of individuals from that population.

Harley² has estimated that the testing of nuclear weapons distributed ~300 kCi of ²³⁸Pu over the surface of the earth before the beginning of the moratorium. Tests by France and China have added about 5%. More recently, ²³⁸Pu became detectable in the environment because of the burnup of a SNAP generator. It is therefore expected that plutonium can be detected in the tissue of nonoccupationally exposed humans. Tissue data are limited because of the various tissue-analysis problems that will be discussed.

Magno³ reported an average of 0.14 to 1.1 pCi of ²³⁹Pu/kg wet weight in the lungs, with the bone

concentrations ranging from 0.04 to 0.12 pCi/kg. Tarasov et al.⁴ tried to correlate the measured air concentration in each year with the lung concentration of humans over the age of 50 who did not suffer from any pulmonary pathology. Their data suggest that pulmonary deposition is consistent with air concentration. They gave:

 0.15 ± 0.1 pCi of ²³⁹Pu/kg in the lung for 1965, and 0.11 ± 0.2 pCi of ²³⁹Pu/kg in the lung for 1966.

The concentrations in the tracheobronchial lymph nodes for the same period were 6.85 ± 8.5 and 9.6 ± 7.6 pCi/kg, respectively. Takizawa⁵ analyzed two to five cases per year from the Niigata District in Japan from 1960 to 1967; his analyses showed that the lung contained 0.012 to 0.038 pCi/kg. Takizawa stated that he found 2.36 pCi ²³⁹Pu/kg in the genital organs of a 70-yr-old woman and 6.3 pCi/kg in her bone. Krey et al.⁶ reported the following results for a group of cases.

PLUTONIUM CONCENTRATION

	(dis/min)/kg
Lung	1.74 ± 0.17
Lymph Node	11 ± 4
Kidney	0.99 ± 0.22
Gonad	7.9 ± 1.9

They concluded that the lung and lymph-node deposition confirmed values that might be calculated from airborne contamination.

Because of the variable values reported above, the AEC provided a number of samples from metropolitan New York City so that we might confirm or deny the plutonium concentrations previously reported.

II. TISSUE SAMPLES

A. Sample Selection

The local pathologist provides samples from as many autopsies as possible. No attempt is made to exclude any case. Therefore, we receive a number of samples from cutside the geographical area as a result of traumatic accidents occurring within the jurisdiction of the pathologist. Most of the samples, however, are from residents of Los Alamos, New Mexico. This is a single-industry town, with a population of approximately 14,000, containing a research laboratory. The industry includes a plutonium-research development laboratory. Studies of the plutorium in the environs of this laboratory have been documented. The samples of the plutorium in the environs of this laboratory have been documented.

A special series of samples were collected in New York City through the cooperation of Dr. John Harley of the New York Operations Office of the Al.C. These samples were from males and were received by the medical examiner's office. Generally only small weights of each organ were made available, but the gonads were included. The limited mass available for these analyses permitted detection of ~0.03 dis/min of plutonium in the aliquot, or a lower limit of 1.5 (dis/min)/kg if a 20-g sample was used.

Since June 1970, this program has been expanded to include a number of other areas, using a similar selection of cases.

B. Sample Storage

The pathologist selects the tissues and packages each separately in a plastic bag. These tissues are held in a freezer until released by the pathologist for chemical processing. A small section of the lung, liver, kidney, and lymph node is preserved for analysis for other metals.

C. Autopsy Samples

Lung. Both lungs are normally received and treated without special preparation. Small amounts of tissue other than lung normally accompany the sample. No attempt is made to separate the lower bronchial lymph nodes or other lymphatic tissue from the lung tissue itself. The weight recorded is the weight actually received at the time of preparation and represents both lungs. The amount of plutonium in the lung includes that in the pulmonary lymph tissue.

Liver. The whole organ is normally received and prepared for chemical analysis.

Kidney. At least one kidney has been used in each case. Every attempt is made to obtain both kidneys for analysis.

Gonads. The gonads were included in samples received from New York City and Denver, Colorado.

Lymph Nodes The lymphatic tissue of the tracheobronchial region is received for analysis. Usually it includes only the lymph nodes of that region and is only a small part of the total lymph-node mass. In a few cases, adnexal tissue is included.

Bone. Unless otherwise designated, all bone samples are wedges from the 4th and 5th lumbar vertebrae. The bone weights include only a small amount of adnexal tissue. If other types of bones are available, they are analysed separately.

TABLE I

A. Method

- 1. Each tissue is placed in an appropriate vessel for dry ashing. The liver and lung are placed in porcelain evaporating dishes, and the other tissues are placed in Pyrex beakers of appropriate size. Since June of 1971, all tissues have been air dried at 100 to 150°C to remove excess
- 2. The samples are placed on shelves in a muffle furnace to prevent direct heating of the vessel. The temperature-programed muffle furnace is operated from 200 to 500°C, reaching maximum temperature in 24 h. The samples are held an additional 24 h at 500°C partly to whiten them.
- 3. After the samples cool in the furnace, the liver and lung residues are transferred to 800-cm³ beakers. The vessels are thoroughly washed with 2N nitric acid, and the washing, combined with the residue, is evaporated to dryness.
- 4. Each residue is heated repeatedly with nitric and hydrofluoric acid until it remains white. From 1968 to 1971, we used hydrogen peroxide in conjunction with nitric acid to speed the ashing process, but because of concentrated hydrogen peroxide's high metal content, we no longer use it. Excess HF is removed by repeated evaporation with nitric acid.
- 5. Each residue is finally dissolved in 2N nitric acid and transferred to a volumetric flask. Except for the lung and bone samples, the procedure brings about complete dissolution of the residue. The following volumetric flasks are normally used for each sample.

Liver	1000-cm ³	Lymph Nodes	50-cm ³
Lung	1000-cm ³	Bone	250-cm ³
Kidney	100-cm ³	Gonads	50-cm ³

- 6. Each sample is mixed well and stored pending analysis of groups of samples.
- 7. At the time of analysis, aliquots are taken from each sample as indicated in Table 1. Each aliquot is "spiked" with ²³⁶Pu at a level of 2 dis/min and evaporated to dryness, treated with concentrated nitric acid several times, and allowed to evaporate almost to dryness. The salts of the lung and liver are dissolved in 200 cm³ of 8N nitric acid, sodium nitrite is added, and the mixture is allowed to stand overnight before anion-exchange separation.

FRACTIONS ANALYZED

	Through	1769	Since 1970 & Repeats			
Tissue	Aliquot (cm ³)	% of Total	Aliquot (cm ³)	Total		
Lung	50	5	500	50		
Liver	50	5	500	50		
Kidney	10	10	50	50		
Lymph Node	10	20	10	20		
Bone	10	4	50	20		

Normally, all the salts except the lung and bone are in solution. These latter two suspensions are shaken before aliquoting as listed above. Most of the tissue salts are in solution after evaporation and redissolution in 8N HNO³. All the salts are treated with hydrofluoric acid, and the excess HF is removed by repeated nitric acid evaporation and treatment with boric acid.

8. Each aliquot is subjected to anion exchange on a Bio-Rad AG 1 x 2 anion-exchange resin, using a modification of the procedure of Campbell and Moss. ¹⁰ The 6-mm by 10-cm columns are eluted with dilute hydrochloric acid, and the eluate is evaporated to dryness and prepared for electrodeposition using an acid oxalate electrolyte. The plutonium is electroplated on 1/2-in.-diam stainless steel plates and counted by alpha spectrometry, using a 300-mm² silicon-surface barrier detector. The column effluents that do not contain plutonium are saved for possible future use. Each sample is counted for 1000 min with a counter efficiency of 30% and a counter background of 0.004 ± 0.003 counts/min. The ²³⁶Pu reagent blank is 0.007 ± 0.004 counts/min, including the ²³⁶Pu internal standard.

Until 1967, we analyzed all samples by Schwendiman and Healy's¹¹ method, using nuclear-track alpha counting, preceded by electrodeposition as stated above. We have reanalyzed many samples from that time which contained analytically significant amounts, using ²³⁶ Pu tracer added when the aliquot is taken. Schwendiman and Healy's method cannot be used in the presence of added ²³⁶Pu tracer. We have also reanalyzed a number of samples of analytical significance using larger aliquots to demonstrate that the plutonium recovery was essentially complete.

B. Replicate Analyses

Our former procedure was to select 50-cm³ aliquots of a 1000-cm³ solution of lung or liver tissue for analysis. This is 1/20th of the total weight, or ~50 g of the lung or ~60 g of liver, a quantity satisfactory for a surveillance of occupational-exposure cases. We reanalyzed 15 lung and liver tissue solutions containing measurable amounts of plutonium, using a 500-cm³ aliquot.

Measurements from analysis of large (500-cm³) and small (50-cm³) aliquots indicate that use of the large aliquot reduces the standard deviation of the individual analysis significantly, but also show no statistically significant difference in results obtained from analyzing large or small aliquots of the same solution. Replicate analyses of various tissue-ash solutions analyzed at the same time by the same method indicate good agreement among aliquots. Table 11 indicates the typical degree of replication.

C. Effect of Salts on Plutonium Recovery

Because our chosen procedure involves an isolation technique (ion exchange) without a preconcentration step, we investigated the effects of normally occurring salts in tissue-sample solutions. We used a solution of bone and lung from a case known to have a detectable plutonium burden for analysis. Each aliquot was evaporated to dryness and made to the same volume for ion-exchange separation. The mass of salt in each solution was determined by weighing an evaporated aliquot. The results are shown in Table III.

Because these results suggest that analysis of unnecessarily large aliquots can lead to low recoveries, we use no

TABLE II

TYPICAL REPLICATION OF VALUES
(dis/min per aliquot)

Solution	_1_			Mean
A	0.38	0.62	0.36	0.45
В	0.01	0.00	0.02	0.01
С	0.33	0.39	0.53	0.42
D	1.1	1.4	1.2	1.2
E	0.07	0.03	0.11	0.07
F .	5.9	7.8	5.3	6.3
G	28	25		26.5
H	38	35	40	38
1	3.5	3.7		3.6
3	0.11	0.10		

TABLE III

EFFECT OF SALTS ON PLUTONIUM RECOVERY

Tissue	Bone	e	Lung			
Solution Analyzed (cm ³)	Measured Activity (dis/min/cm ³)	Mass of Solids (g)	Measured Activity (dis/min/cm ³)	Mass of Solids (g)		
1	0.39	0.058	5.31	0.014		
2	0.39	0.117	4.16	0.027		
3	0.34	0.175	4.25	0.041		
5	0.37	0.292	3.75	0.068		
10	0.32	0.584	3.32	0.137		
15	0.25	0.876	3.42	0.206		
25	0.23	1.46	3.78	0.342		
50	0.15	2.92	3.34	0.685		

more than 50 cm³ in aliquoting highly concentrated solutions. Each aliquot is evaporated to dryness, treated with nitric acid, and made to 500 cm³ with 8N nitric acid for ion-exchange isolation to reduce the salt concentration. By increasing the total volume of the tissue-salt solution and increasing the column size to 6 mm by 10 cm, we have minimized the effects of high ionic strength noted above.

D. Recovery of Plutonium During Analysis

The use of ²³⁶Pu to evaluate the radiochemical separation does not represent an attempt to determine total yield of the overall procedure; accordingly, the tracer is added at the time of aliquotting, not at the time of ashing. The library of tissue solutions is still available for analysis for other nuclides. Examples of tracer recovery are given in Table IV.

TABLE IV

RECOVERY OF ²³⁶ Pu FROM TISSUE SOLUTIONS

Tissue	Bone	Liver	Lung	Gonad		
No. of						
Samples	9	9	9	9		
Mean						
Recovery						
(°0)	30.1	74.1	74.1	85.7		
Standard						
Deviation	13.4	18.9	12.3	26.7		

The analytical losses after the tissue is ashed are low, and may be estimated from the percentages of recovery given above.

E. Overall Recovery

We spiked beef tissues of the same weight as human organs with 235 Pu and used the outlined procedure to ash and analyze the tissue for plutonium. The overall recovery was $87 \pm 8\%$.

F. Observed Losses

Because some insoluble material normally defies dissolution in 2N nitric acid, we conducted additional studies. The salts, probably silicates and phosphates, cannot be brought into complete solution at this stage. We used solutions of tissue salts from individuals known to have been occupationally exposed to plutonium in the following study. We examined paired aliquots of the solution and of the insoluble residue in the following manner.

The suspension (in 2N nitric acid) was well mixed during aliquoting to produce as homogeneous a mixture as possible. Small aliquots of the suspension were taken and centrifuged. The insoluble portion and the centrifugate were separated and spiked with ²³⁶Pu as an internal tracer. Each portion was evaporated to dryness, treated repeatedly with hydrofluoric acid and nitric acid, and finally evaporated repeatedly with nitric acid to remove the excess HF. Any fluoride surviving the evaporation was complexed as the fluoborate, after which the solutions were carried through the ion-exchange procedure and the separated plutonium was counted by alpha spectrometry. The results indicate that the loss by incomplete dissolution of the plutonium from the salts in the procedure without repeated HF treatment may be as much as 20%.

IV. RESULTS

All of the results obtained under this program are reported in the appendixes:

Appendix A - Tables of Individual Cases

Appendix B - Cumulative Frequency Distributions

Appendix C - Summary Tables

The tables of individual cases contain the most detailed, properly available information about each case examined. Included are case numbers, assigned by this laboratory and unrelated to any numbers assigned by pathologists or hospitals, occupation at time of death, age, sex, city of residence, and cause of death as described by the pathologist. The cause of death is also described by the HEW Code Number. Laboratory data included are: weight of organ (or tissue) as received; total volume

of ash solution; aliquot of ash solution analyzed; disintegrations for minute of plutonium in the aliquot, of plutonium in the total sample, and of plutonium per grant of sample (concentration); and disintegrations per minute per standard organ, calculated for convenience, weights of standard organs having been defined by ICRP Publication 2.13

The cumulative frequency distributions (Appendix B) are presented for convenience in viewing the results on a population basis rather than the individual basis used in Appendix A.

The summary tables (Appendix C) are the least detailed, and briefly present the median values (50th percentile) derived from Appendix B.

V. EVALUATION OF RESULTS

The plutonium concentrations in the analyzed tissues cannot be compared directly because the portions of the organs analyzed were never identical. To put the data on a common basis, therefore, we converted the results per aliquot to disintegrations per minute per kilogram and disintegrations per minute per standard organ weight. We used these data to estimate the concentration of plutonium in human tissues per unit of weight for each of the population groups listed in Appendix A.

Because of incomplete knowledge of sample selection, incomplete tissue collection, and uncertainties in the assay, we have not tried to evaluate statistical differences among groups of data, but have chosen to leave the testing to another study involving additional data with better controls.

Histograms of the frequency distribution of the data for each type of tissue from Appendix A were found to be skewed to the right. We therefore assumed that the data are distributed log-normally, and demonstrated the validity of that assumption by plotting the cumulative frequency of the number of samples against the plutonium concentration on logarithmic normal-probability graph paper. The data thus plotted gave acceptable straight-line fits, and these graphs are presented in Appendix B.

Every data point obtained experimentally is included in Appendix B. It is obvious that excluding all those results that were below out detection limit would increase the median unrealistically; therefore, results that were, in fact, below our detection limit are assigned an artificial value of 0.03 (dis/min)/kg simply to aid in the presentation of the data.

This assignment makes the plots flatten at the lower section, consistent with limitations of measurement sensitivity. Similar deviation from the streight-line fit at the upper end is associated with a selection against an upper

limit of sample specification. From the logarithmic-probability plots, we estimated the median, or 50th percentile, data points for each distribution expressed as disintegrations per minute per kilogram. The estimates are shown in Table C-1 (Appendix C). The median values for each tissue type and population group suggest that there are no significant differences among the population groups except for the high-potential-exposure group.

Other aspects of the plutonium concentration in human tissue may be obtained from the log-normal probability graphs. We combined the data from Tables A-I through A-III and A-VII into a single unexposed population group and plotted the data for each tissue on log-normal probability graphs. These graphs provided estimates of the median, the 95th percentile, and the 5th percentile. These points include 90% of the results. These data are shown in Table C-II, along with similarly derived estimates of the occupationly exposed groups.

ACKNOWLEDGMENTS

We acknowledge the assistance of the entire staff of the Laboratory Section of Group H-5 and all members of the Health Division who have helped collect supportive information, especially B. C. Eutsler, H. M. Ide, I. K. Kressin, and Jean McClelland. We are grateful to the late Thomas L. Shipman, M. D., Health Division Leader, for his encouragement in this program. The program continues under the direction of George L. Voelz, M. D., with the assistance of the Division of Biomedical and Environmental Research of the Atomic Energy Commission and is a cooperative effort among Battelle Northwest Laboratories, LASL, and the U.S. "Transuranium Registry." We thank various Divisions within the Laboratory, in particular P Division, for their assistance and preparation of electronic equipment used to determine plutonium. Many people have assisted in the preparation and analysis of samples; these include Rita Bieri, Romualda Madrid, Romayne Owens, Sherry Stephens, Patricia Isham, and Eudena Boyles. Doctors C. C. Lushbaugh and Michael W. Stewart performed the autopsies and selected many of the samples.

REFERENCES

- T. L. Shipman et al., "Acute Radiation Death Resulting from An Accidental Nuclear Critical Excursion," J. Occ. Med. 3, 146-192 (1961), Special Supplement.
- J. H. Harley, "Worldwide Fallout from Weapons Tests," pp. 4-5 in "Proceedings of Environmental Plutonium Symposium," Los Alamos Scientific Laboratory report LA-4756 (1971).
- P. J. Magno, P. E. Kauffman, and B. Shleien, "Plutonium in Environmental and Biological Media, "Health Phys. 13, 1325-30 (1967).
- S. I. Tarasov et al., "The Extent of Aerogenic Introduction of Pu Into The Human Body," Gig. Sanit., 4, 34-38 (1968).
- Y. Takizawa, "Japanese Hygienist Points Out Increase in Plutonium in Human Body," Japan Society of Public Hygiene, Nagoya, Japan (October 28, 1970).
- P. W. Krey, D. Bogen, and E. French, "Plutonium in Man and His Environment," Nature 195, 263-265 (1962).
- H. S. Jordan and R. E. Black, "Evaluation of the Air Pollution Problem Resulting from Discharge of a Radioactive Effluent," J. Amer. Indust. Hyg. Assoc. 19, 20 (1958).
- W. R. Kennedy and W. D. Purtymun, "Plutohium and Strontium in Soil in the Los Alamos, Espanola, and Santa Fe, New Mexico, Areas," Los Alamos Scientific Laboratory report LA-4562 (1971).
- W. R. Kennedy and W. D. Purtymun, "Plutonium and Strontium in Soil Near Technical Area 21, Los Alamos Scientific Laboratory, Los Alamos, New Mexico," Los Alamos Scientific Laboratory report LA-4563 (1971).
- E. E. Campbell and W. D. Moss, "Determination of Plutonium in Urine by Anion Exchange," Health Phys. 11, 737-742 (1965).
- 11. L. C. Schwendiman and J. W. Healy, "Nuclear-Track Technique for Low-Level Pu in Urine, Nucleonics 16, 78 (1958).
- "International Classification of Diseases," U. S. Department of Health, Education, and Welfare, 1 and 2, No. 719 (Dec. 1962).
- "Report of Committee II on Permissible Dose for Internal Radiation," ICRP Publication 2 (Pergamon Press, New York, 1959).
- E. E. Campbell, W. D. Moss, L. Johnson, M. F. Millipan, Jean McCielland, and James F. McInroy, "Plutonium Concentration in Tissue of Occupationally Exposed Workers," Los Alamos Scientific Laboratory report in preparation.

APPENDIX A

TABLES OF INDIVIDUAL CASES

The data tabulations are divided into convenient, population categories based on residential area and area-pational exposure.

- TABLE A-I. Los Alamos residents with no occupational exposure to plutonium.
- TABLE A-11. Nonresidents of Los Alamos with no known occupational exposure to plutonium.
- TABLE A-III. Colorado cases analyzed for plutonium.

Former employees of the Los Alamos Scientific Laboratory were grouped according to their potential exposure to plutonium. If the work area or job assignment was directly related to plutonium handling, or known potential exposure of short duration, the case was considered as having a high potential exposure and placed in Table A-V or A-VI. Because of the nature of the Laboratory's work, all other former employees have a potential for exposure to plutonium; these cases are listed in Table A-IV.

TABLE A-IV. LASL employees known to have a potential exposure to plutonium.

- TABLE A-V. LASL employees known to have a high plutonium-exposure potential.
- TABLE A-VI. Special cases. Cases discussed in other reports¹ and for which other than the standard set of tissues were analyzed for plutonium.
- TABLE A-VII. New York City cases analyzed for plutonium. (These cases are listed separately because of the differences in weight of organs received and because the gonads were always included.)

The minimum reporting level (MRL) is based on the total counts, background, and recovery statistics. The MRL is 0.03 dis/min of plutonium found in the aliquot analyzed.

Uranium, mercury, and other elements have been determined and will be reported elsewhere. Tissues received during the past three years have been examined by gamma spectroscopy to determine ⁴⁰K, ¹³⁷Cs, and other radionuclides used therapeutically. Americium 241 and ²³⁸Pu will be reported separately. A complete review of the occupationally exposed cases reported here has been published. ¹⁴

TABLE A-1 MESIDENTS OF LOS ALAMOSING OCCUPATIONAL EXPOSURE TO PLUTONIUM

SERVICE AND STATES AND

			718806	PE1 WEIGHT SAMPLE (GRAM)	Of	VCLUME SAMPLE AMALTELO (CC)	ACTIVITY PER VOL ANAL (DIS/MIN)	ACTIVITY PER GREAM WEIGHT EDIS/MINI	PER KO	ACTIVITY PER STANDARD ORDAN LDIS/MINI
CASE NO.	AMENDLOJED	5E1 H 444 09	LIVER	3213+0 870+0	254 1600	100 50	1.251 0.000 .150	3.13 <#RL* 1.80	2.98 448L* 827.27	4,30 2,27
RESIDENT STATE SAUSE OF DEATH OCO CODE NO.	OBTOR BUENWOMIY FOR WE'TICO FOR VYWOR	7648 15 7688 1959 80 MA	AEULEBUTE UIB KIDHEA FANDH	4.6 100.6 136.6 172.0	200 200 200	10 10 200 100	.022 .022	engl. engl.	annte annte 1.69	7.65
	-		SPLEEN	125.0	250	100	.708	1.77	14,14	
SASÉ NO. OCCUPATION RESIDENT STATE GAUSE OF BEATH MES COOL NO.	T- 64 STUDENT LOS ALAMOS NEW MEXICO SUMSMOT IN MEAD E070.0	NG NA VEAR 1960 VEAR 1960 NA NA	LIVER LYPPH KIDHEY SPLEEN	615-6 6-5 326-6 234-8	25 101 100	50 10 10 10	.046 .010 0.000	enur enur enur enur	.05, emal- emal-	. 1.11
CASE NO. OCCUPATION MESIDENT	1- 78 CHILD LOS ALAMOS	SES M AGE GT TEARS GT	LIVER LUNG LYPPH	701-0 210-0 5-0	500 500 25	50 50 10	.020 .020	.60 <mrl* <mrl*< td=""><td>.06 carl carl</td><td></td></mrl*<></mrl* 	.06 carl carl	
STATE CAUSE OF DEATH MED CODE NO.	NEW MERICO ENCEPHALITIS SAJOS	YEAR 1969	KIONEY	135-0	100	10	.010	-MAL-	4HBL 9	•
CASE NO. OCCUPATION NESIDENT	1- 76 CHILD LOS ALAHOS	SES F 406 11	LUNG	336.0 700.0 38.0	500 500 23	50 50 10	.200 .490 .850	2.00 4.90 .13	6.06 7.00 4.17	19.30 7.88 .04
STATE CAUSE OF BEATH MEN CODE NO,	MEH METICO ACUTE RENINGITIS 348.9	7EAR 1968 MA MA	KIONEA	****	100		• 040	***	4-81	1.26
CASE NO. OCCUPATION	CHIFO 1- 60	86 198 80 304	FIRE	776.0 307.0	500 250	50 51	.100 .470	1.00 2.35	1.29	7.05
RESIDENT STATE CAUSE OF DEATH BEW CODE NO.	NEW MEXICO BRAIN TUMOR 193-3	YEAR 1048 RB MA	HIDHEA FARM	124-0	100	10	.010	≪MBF.	4M87.	1.00
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH GEN CODE NO.	SOOPE SETTINED TO ALTWOS SETTINED TO ALTWOS	.5C2 M 60 304 40 20437 40 204 40 63	KIDMEA FARM FIRE FIRE	2529.8 1010.0 10.0 270.4	1000 1000 50 100	50 500 10 10	.619 .332 .060	.00 .06 emrl* emrl*	ANUTA OPP OPS	
CASE NO. OCCUPATION MESIDENT	1- 96 HOUSEWIFE LOS ALAMOS	SER F AGE 59 YEÀRS 08	FANDA FIREM FIREM	906.8 576.8 7.8	1000 1000 50	50 500 10	950. 695. 950.	.60 .61 <mrl*< td=""><td>.66 .78 <mal< td=""><td>1.13 •76</td></mal<></td></mrl*<>	.66 .78 <mal< td=""><td>1.13 •76</td></mal<>	1.13 •76
STATE CAUSE OF ORATH MED CODE NO.	NEW MEXICO CANCER 199.8	TEAR 1960	RIDNEY	100.0	100	iě	.030	,,10	1.67	.51
GASE NO. OCCUPATION NEBIGENT	1-100 - RESIDENT LOS ALAMOS	SEX M AGE SA Years oz	LUNB LUNB LYMPH	53.0 1545.0 5464.0	1000 1000 50	50 50 10	.120 .360 .070	2.4¢ 7.20 .35	1.00 5.57 15.22	1.69 5.57 .15
STATE CAUSE OF WEATH WED CODE NO.	MEN MEXICO COROMARY OCC +28.1	YEAR 1960	KIDHEY	202-8	100	iě	.650	.50	2,40	•74
CASE NO. OCCUPATION	1-102 MOUSE-IFE	821 F 465 95	LIVER	1400.0	1000	50 50	.130	1.20	3.62	1,46 3,82
RESIDENT STATE CAUSE OF BEATH DAY CODE NO.	COS ALAMOS WEW MEXICO BMEUMATIC MEART 616-8	TEARS OS TEAR 1960 NO NA	KIDNEA FARBH	35.0 255.0	700	10	4.00	enti• €ari•	enst.	
CASE NO. OCCLEATION	1-100 RESIDENT	N 138 (4 384	FINE	1141.0	1000	54 50	.660	1.20	1,05	1.70
MESIBENT STATE CAUSE OF BEATH MEW CCOE NO.	LOS ALAMOS NED MEXICO EMPRISEMA 527-1	YEARS OB YEAR 1960 NO NA	# IDNEA FADER	534.0 54.0	100 20	10	.030	.15	\$.77 1.67	•56
EASE NO. UCCLEATION	1-116 RESICENT	3E2 M 45E 47	Lung Lung	759.6 16.6	3000 50	80 10	.150 .033	3.00	3.99 9.37	3.95
MESIDENT STATE CALSE OF DEATH MES COOR NO.	LOS ALAMOS NEM PERICO COFINARY OCC 420-1	YEARS 13 YEAR 1960 FG AA	RIDHEY	251.6	100	10	• •	4MRL•	4mil 4	•
CASE NG. ECCLPATION	1-118 RESIDENT	5ER M 466 35	LIVER LUNG	1355.0	1000 10:0	5¢	.050	1.00 emRL=	,74 «MAL!	1.25
PESIDENT 51416 CAUSE OF REATH	PER PERICO PAJAL SHOCK	VEARS GO VEAR 1901	ETOTEY RIGHEY	14.6	50 100	15	.010	epr. o		•
REV COST AC.	451.9	X8 P7		•						

			11554£	DET WEICHT Sample (Gram)	. 5€	ectume gample analyted (cc)	ACTIVITY PER VCL ANAL (DIS/MIN)	ACTIVITY PER CESAN WEIGHT 1018/WIN)	uhe ka	ACTIVITY FER STANCERD GROAN (DIS/PIN)
GASE NO. OCCUPATION RESIDENT STATE EAUSE OF DEATH NEW CODE NO.	1-134 MOUSE OFE LOS ALAMOS NES PÉSSEO NOSE CASCER 144-4	12: F 351 48 7248 81 7248 1961 85 44	WICHEA FARBH FING FIRE#	3734.8 675.8 5.8 277.8	1000 1003 50 100	t 9 50 19 10	.032 .010 0.000 .010	.80 487.0 618MP	4M2 - 4 4M2 - 6 4M2 -	.9 \$
EASE NO. OCCUPATION WESIDENT STATE CAUSE OF OCATH JEW CODE NO.	3-138 MOUSEWIFE LOS ALAMOS NEW MELICO RUPTUPED AGRIA 453-9	9E1 F ADE 76 YEAR 92 YEAR 1961	MIDPEA FAMBH FRPB FEASE	1317-9 911-9 10-9 203-6	1000 1000 50 100	50 500 10 10	.965 -257 -126 -000	**************************************	.4; .63 37.50 dmR _L 6	1.55 .25 .47
Gase no. Gecupation Resident State Gaute of Beath Dev Cool no.	#- & MOUSE = IFE LOS ALAMOS MEJ ELZICO CAMCER 199.0	SER F 60E 53 VEARS 16 VEAR 1861 R8 NA	LIVER LUNG LVUPN KIDNEY	1192.0 720.0 11.0 200.0	1000 1000 50 100	50 55 10 10	.005 .230 .005 .002	englo englo	qualo 4.19 4malo	4.29
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MED CODE NO.	2- 10 RETIFED LOS ALAMOS MEW MEXICO AFFERIDACLEROSIS 450-0	SER N AGE 40 VEARS 07 VEAR 1961 R6 NA	LIVER LUMB LUMEY KIONEY	957.0 342.0 7.0 170.0	1000 100 50 100	50 10 10	.12e .113 .219 .012	2,49 1,13 1,05 4MRL*	2.91 3.28 3.44 3.44 3.44	4.24 3.25 1.96
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEN CODE NO.	2+ 26 MOUSEWIFE LOS ALAMOS NEW MEXICO UNWNOWN MA	SES F AGE GE YEARS GS YEAR 1061 MG MA	KIONEA FARM FANG FIAEK	1025.0 705.0 3.0 235.0	1000 1000 50 100	90 90 10 10	540. 401. 101.9	.64 «HRL» «HRL» «HRL»	AMUP AMUP AMUP AMUP AMUP AMUP AMUP AMUP	•
SABE NO. OCCUPATION RESIDENT STATE GAUSE OF BEATH NET CODE NO.	2- 34 MOUSE=IFE LOS ALAMOS NEW MEXICO PULMON EMBOLISM 463 0	SC4 F 406 71 75483 14 7548 1962 88 HA	FAMBH Fing Fires	3627+6 675+6 20+6	1000	50 500 10	.007 .795 0.000	3.78 1.59 end.	4ME 1.65 1.69	1.86
Gase no. Occupation Resident State Gause of Beath Get Cook no.	3- 36 MOTEL UNOR LOS ALANOS MEM MESTOO MOTEL UNOR LOS ALANOS	96% M 406 60 Year 1962 We Ma	E SAEA FANDA FINE FINE FINE FINE FINE FINE FINE FINE	1505-0 090-9 13-8 275-0	1000 1000 50 100	850 900 10 10	.004 .004 .004	6.41 .96 emri- emri-	4,26 3,97 «MRL»	7.24 3.97
GASE NO. OCCUPATION MESIDENT STATE SAUSE OF BEATH MEN COOL NO.	2- 60 MOUSEWIFE LOS ALAMOS NEW MIXICO CANCER 199.0	SEX F 405 06 7EARS 12 7EAR 1962 RO MA	LIVER LUNG LYPPH RIDNEY VERTEBRAE	2750.0 001.0 3.0 220.0 150.0	1000 500 80 100 250	50 50 10 10	.016 .302 .003 .003 .007	enri.º 3,02 enri.º enri.º		4,65
EASE NO. OCCUPATION RESIDENT STATE GAUSE OF DEATH OFF COOL NO.	2- 46 STUDENT LOS ALAMOS NEW MEXICO MEAD INJURIES 853-8	TEAR 1962 TEAR 1962 TEAR 1962	AEULENUTE FABM FABM FIRES FIRE	1203-0 775-0 5-0 200-0 102-0	1000 1000 30 100 250	50 50 10 16 18	.150 .200 .040 .010 .030	3.00 4.00 .29 emr.c .75	2.49 5.16 65.09 <mrl- 6.12</mrl- 	4.24 6.16 6.05
GASE NO. OCCUPATION RESIDENT STATE GAUSE OF DEATH NEW CODE NO.	e- 92 Mouse#1FE LOS ALAMOS MEW MEXICO UMENOWN MA	9 138 57 306 50 88637 5601 8637	KIONEA Fangu Fing Fiagu	1333.4 669.4 4.4 295.4	1000 1000 50 100	5¢ 5¢ 10 10	.949 .960 .918 .830	.36 4ML- 4ML-	.68 1.79 engl.6 1.18	.29 1.79
SASE NO. OCCUPATION MESIDENT STATE CAUSE OF DEATH NEW CODE NO.	8-102 CLERK LOS MEXICO ORUBS 072.8	SCR F 460 44 7648 10 7648 1042 88 MA	AEULEBUTE FAND FAND FAND FAND FAND FAND FAND FAND	1615.0 1190.0 3.0 237.0 267.6	1000 1000 50 100 250	50 50 10 10	.421 .421 .110 .402 .224	2.12 6.42 .53 .481.0 8.08	1-3] 7-68 183-33 «MRL» 28-97	1+++5 7+67 4+6+2 5+53
GASE NO. SCCUPATION RESIDENT STATE CAUSE OF DEATH REW CODE NO.	2-122 CLERK LOS ALAMOS NEW PEATCO CANCER OF BREAST 170:0	SER F act SI years to year 1912 ng na	WIS CAPAN ETAPA FIRES	1200-0 \$49-0 11-0 125-0 165-8	1644 1646 56 185 213	50 50 15 35 10	0.999 9.909 6.909 9.909 8.600	engle engle engle engle	ente ente ente ente	

			7;51:-	UET BLICAN BAMPAE (MAM)	¥0,0+0 1° 54-4,0 (6\$)	VIL. HE 4407LE 63.411468 IECT	4012414 415 4457 414 4457 414 4454	(DIS/MIN)	f E fü	ACTIVITY DEG SYANJARD DRGAN (BIS/MIN)
CASE NO. UCCUPATION MESIDENT STATE GAUSE OF OCATN MED COSE NO.	\$92.0 MENMETEO MEN MENMETEO MENMETEO MENMETEO MENMETEO MEN MEN MEN MEN MEN	SEX F - 466 49 7EARS 17 7EAR 1962 R6 MA	EIDNEA FARM FARE FIRES	1304.9 949.9 13.8 188.9	1000 100 50 100	25 25 10	.104 .177 .032 0.000	6,36 .71 .16 april.e.	4,74 ,75 12,31 <ml=< th=""><th>8.06 .75 .12</th></ml=<>	8.06 .75 .12
EASE NO. OCCUPATION RESIDENT STATE GAUSE OF BEATH OCO COOL NO.	B-134 MOUSEDIFE LOS ÁLAMOS MEN MEXICO CANCER 199.8 *	TEAR 1963 TEAR 1963 TEAR 1963	LIVER LUMB . LYMPH RIDHEY VERTEBRAE	995.9 905.9 9.9 103.0 800.0	2000 1000 50 100 250	25 900 10 10	.641 .618 6.666 .915 6.000	angre angre angre 1°54	<pre> < MRL* 2.33 < MRL* 3.81</pre>	3.00
Cast no. Occupation RESIDENT STATE CAUSE OF DEATH HER COOL NO.	E-136 MOUSEUTE LOS ALAMOS WAKNOWN MA	5C2 F 301 Sq 10 Sangy 10 Sangy	#ID=EA FIAE#	205.0	1000	26	.113 .025	4.52 4.52	3,96 cmrl*	6.73
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MED CODE NO.	3-148 Repairmen Los alamos Mer mexico Cardiac Na	568 M 52 JOA 75488 97 7548 JOA 764 MA	LIVER LUNG LYMMM RIONEY VERTEBRAR	2753.4 1525.7 10.4 308.8 308.4	1000 1000 50 100	50 500 10 10	9.000 1.030 9.000 .020	eMura emura emura emura	eMufo emufo emufo emufo	1.30
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH NEW COOL NO.	2-146 MOUSEWIFE LOS ALAMOS MEW MERICO MYOCAMOIAL SMF 426-1	VEAR 1003	usa cionta range rang rinta	1166.6 2.6 2.5.2 215.6	1000 1000 54 100 500	25 500 1¢ 10	.030 .595 .030 .030	1.20 1.19 .18 .30 5.09	.77 1.09 75.00 1.13 23.20	1.30 1.00 .75 .30 102.79
GASE NO. OCCUPATION RESIDENT STATE GAUSE OF DEATH MEM CODE NO.	3- 36 INS AGENT LOS ALANOS NEW MÉXICO PERITONITIS STO-0	362 M 468 92 7648 94 7648 1967 80 MA	LIVER LYMPH RIDNEY RIDNEY	1165.0 066.0 7.0 315.0 145.0	1000 1000 30 100 256	25 500 10 10	.978 .945 .087 .554 8.888	3.32 3.89 .03 5.50 <mrl•< th=""><th>2.63 62.14 17.65 EMBL</th><th>2-36 2-36 3-13 4-48</th></mrl•<>	2.63 62.14 17.65 EMBL	2-36 2-36 3-13 4-48
gast no. DCCUPATION NESIDENT STATE CAUSE OF DEATM MES COOL NO. 1	3- 38 HOUSEWIFE LOS ALAMOS HEW MEXICO HEART STACK 447-6	\$ER F 40\$ 63 Years na Year 1047 RB NA	BIB EIDHEA EIDHEA FIMB FIAEB	1750.0 643.6 20.0 100.0 170.0	1000 1000 50 100 256	250 500 10 25	3.506 1.106 .050 8.200 1.639	14.24 2.22 .25 8.83 6.15	0.14 2.63 12.50 44.22 47.54	13.83 2.63 -13 13.21 335.99
CASE NO. UCCUPATION RESIDENT STATE GAUSE OF BEATH REW COOL NO.	3- 42 NA LOS ALAMOS MEM MEXICO ANTEN SECUENOSIS 458-8	SER M AGE 61 YEARS NA YEAR 1967 RB NA	LIVER LUND LUNEY RIDNEY RIB	1015-0 1030-0 12-0 355-0 130-0	1988 1998 199 250	25 25 10 10	.054 .061 .051 .055	2.24 2.44 .25 .55 4.65	2.21 2.37 21.25 1.55 35.77	3.75 2.37 .21 .66 g5g.35
CASE NO. OCCUPATION RESIDENT STATE AA-SE OF DEATH WED CODE NO.	3- 48 STUDENT LOS ALAMOS NEW MESICO TRALMATIC INJ E825-8	\$ER M 46E 17 YEARS 17 - YEAR 1967 RO MA	EIB ETPET EIPET EIVER	1670-4 1215-0 18-0 330-4 110-0	1000 1000 50 100 250	25 25 10 10 10	.000 .003 .021 .022	.24 4 2 2 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1.68 2.07 emblo emblo 2.16	2.51 2.07 15.11
Cast no. Occupation MESICENT STATE CAUSE OF DEATH MESICEE NO.	3- 5- MOUSEWIFE LOS ALAWOS NES WEXICO CANCER DF RECTUR 150	SER P #66 41 TEARS 14 TEAR 1967 #6 NA	uin aibrea Fanna Fine Fiaeu	8:00.0 00.0 10.0 350 0	1000 1000 101 250	25 18 10 10	.041 .072 .204 .114	2.68 3.04 3.16 <pre>cpape</pre>	1.12 0.50 180.58 3.20 quile	1.90
CASE AD. CICLARTION AESIZE T TATE CAUSE OF DEATH MEM CIZE AD.	3- 60 #E1170 LCS ALBECS NEW MISIED CIGATISES \$63-6	\$E3 M 456 \$6 7E4P3 \$2 VEAR 1967 A6 NA	EZVER LL-13 KJI-NEV PIB	2000.3 5040.0 276.6 126.6	1000 10:1 187 250	25 25 .0 10	•2:5 •2:6 •6:6 •127	#:28 1:39 4:10 4:10	3.68 3.25 extle	6.77 1.25
BASE NO. COCLEATION RESIDENT STATE FACE OF BEATH REN COUR NO.	3+ 62 64KPR LCS ALAMOS AS# WINIOG CANDIAG 422.6	561 M 431 97 76455 24 7645 1547 84 74	11450 1046 14400 170464 .	152:.6 767:0 10:0 20:0 88:0	1000 1000 1000 201	25 25 10 10	.073 .270 .621 .227	2,12 10.81 5 1417 3	2.55	3.49 (4.18 1.15 1.15

			115502	BET WEIG 17 SAMPLE IGRAAT	25	SANTLE SANTLE AMALYZED ICCI	9771/17Y PLD PC ATAL (DIS/MIRA	ACTIVITY PEP CEJAN BEIGHT (DIS/MIN)	PĻR KU	ACTIVITY PER STANDARD GRGAN (DIS/MIN)
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH DEN EEGE NO.	S- 34 HOUSEWIFE LOS ALANGS WEW MEXICO BUNSHT WHO EFTT. 0	SET F AGE 35 TEARS NA VEAR 1969 PO MA	MIQ EIDMEA FING FINES	3676.6 563.8 3.4 213.6 76.6	1000 1000 80 100 300	\$00 250 10 10 50	.019 .171 .005 .019	enste e enste e enste enste enste enste enste e enste enste enste	CHRLO SHRLO CHRLO CHRLO	1.21
GASE NO. GCCUPATION GESIDENT STATE GAUSE OF DEATH MED CODE NO.	MA LOS ALAMOS MEW MEXICO PULNONARY IMP 465+8	SEX OF AGE OS VEARS NA VEAR 1949 RS NA	LIVER LUNB KIDNEY RIB	1454 8 1010-6 250-8 176-8	1000 1000 100 250	500 500 10 15 100	.192 .112 .914 .923 .047	.36 .22 eurlo eurlo .12	.26 .22 enti- enti-	****
CASE NO. OCCUPATION OCSIDENT STATE LAUSE OF BEATM OFF COSE NO.	S- SO MOUSEWIFE LOS ALANOS NEW MEXICO MEAN ATTACK 420+1	SEE F 36E 73 7EARS 72 7EAR 20 6 R8 MA	LIVER LUMB LYMPH RIDNEY VERTEBRAS	1434.4 1950-6 3.0 264.8 70-8	1000 2000 50 100	250 250 10 10	.047 .212 .000 .044 .056	.27 .65 cmrl.0 .44	,19 .81 emile 1.67 6.29	.32 .61 .50
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH NES CODE NO.	S- SB BNR CLERK WHITE ROCK WEW MEXICO CANCER 199.8	SER F 405 37 YEARS 37 YEAR 19 6 85 MA	LIVER LUMB LYPPM KIDMEY VERTEBRAE	966.6 676.8 2.6 193.6 75.6	250 500 50 200 250	100 250 10 10	.718 .794 .004 .010 .013	1.74 1.59 .22 curle durle	4MBF4 519.00 5.34 5.44	3.39 2.34 1.19
CASE NO. CCUPATION RESIDENT STATE CAUSE OF DEATH NEW CODE NO.	S- 48 MOUSEVIFE LOS ALAMOS NEW MEXICO MEART ATTACK 420-2	SER F AGE 67 YEARS 67 YEAR 19 8 KG NA	ACULEA CIDNEA FANDN FINE FINE FINE FINE FINE FINE FINE FIN	\$577.0 436.6 5.8 255.0 106.0	500 500 50 200 200	25e 25e 16 10	.133 .132 .004 .013 .039	.27 .26 .22 «MRL» .08	•17 •61 •4•80 •MRL•	.29 .63 .44
Cast mg. Occupation Oc	5- 74 MOUSENIFE LOS ALANOS NEW PERICO COR PULNANALE 430-7	SES P AGE 48 YEARS NA YEAR 1970 RG NA	HIB KICHEA FARM FAME	1214.6 27.6 414.6 40.8	500 25 100 200	250 10 10 10	.366 .826 .819 .265	.6] eHRL• eHRL• .57		49.71
GASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATN NEW CCDE NO.	S- 86 STUDENT LOS ALAMOS NEW MLRICO MEAD INJURY 850-6	SEX F AGE 17 VEARS 17 VEAR 1970 #8 NA	MIB FANDA FANDA FINE FINE FINE FINE FINE FINE FINE FINE	1745.6 543.6 5.6 222.6 56.6	500 500 25 100 20	250 250 10 10	1.624 .156 .016 .105 .036	3.25 .31 .uRL.0 1.05 .07	1.42 .57 «MRL« 4.73 1.44	3.09 +97 1.42 18-99
GARE NO. OCCUPATION MESIDENT STATE CAUSE OF BEATH MEN CCOE NO.	5-1)0 MOUSEDJFE LOS ALAMOS NEW MIZICO PUL EMBOLISM 469-0	SEI F AGE G7 VEARS WA VEAR 1971 NO MA	EIVER LUMB LUMBY RIPH RIPH RIPH RIPH RIPH RIPH RIPH RIPH	957.0 861.0 14.0 299.0	500 3000 25 150 200	100 850 10 10	-562 -241 -608 -808	8.51 .00 emblo emblo .13	2.62 1.28 4ML 4ML 1.66	
GASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEG CODE NO.	T- 2 MOUSEFIFE LOS ÁLAMOS MEM MERICO MEART ATTACK 634-1	SER F 405 08 7EARS MA - 7EAR 1971 88 MA	KIDNEA FANN FANG FIAEK	1146-6 646-8 4-1 176-8	1000 25 100	250 250 10 10	.720 .660 .666 6.800	3.66 .24 1.52 emal-	3.23 437 307.53 4MRL4	5.49 .37 3.70
GASE NO. OCCUPATION RESIZENT STATE GAUSE OF DEATH NEW COSE NO.	To le mcusthyff LOS ALAMOS ME# MERICO STROME 330-8	SCE F 46E 49 YEARS MA YEAR 1971 MG MA	Fine	1275.0 007.0	1000	256 256	2.300 .005	5.29 2.42	4.88 2.30	6.43 2.59

TABLE ANTI MONNERSIDENTS OF NOS ALAPOS. NO COCUPATIONAL EXPOSIBL TO PLUTONIUM

	E A-II WON-FESIDENTS					6U7011UP	TSTAL COUNTS:	849.4 40 8 EC	CHEST STATE	157165
•44	ar a miriana utabusi	me level				ACT TAE	ACTIVITY	ACT14177		4511+11Y
			7285.2	ecigmi Sample Ibrami	5.	SAMPLE ANALYZED (CC)	COSSIMINA ACT WHIT AEM	PER DRIAN REIGHT (DIS/PIN)	PLR KG	BTANCAFO GROAN (DIS/MIN)
•						_	• • •		••	1.1:
CASE NO. OCCUPATION	1= 72 METIFED	921 M 406 76	LIVEA	1705.0	1000	50 500	.460 .334	1.20	.70	.76
de Sident	AED CILEARS LOUISIAMA	TEARS NA	LYPPH	.20 • 0	25 100	10		eph.	7.5Q	•37
STATE GAUSE OF DEATH MEH CCDE MO.	POST OF SMCCK	TEAR 1960 RG MA	415151	300.0	•••	••				
645E NO.	1- 70	SEI F	LIVER	1341.6	1000	50	8.000 .097	498L4 1.39	g.93	2.93
Becupation Besident	MOUSEFIFE LAS YEBAS	ABL 72 Years ma	FARBH	475.8 12.6	1000 25	10	4.400	d##L ●	CMPL.	.37
STATE CAME OF DEATH	NEW PEXICO POST OF SMOCK	7EAR 1946	KIOHEA	2 42. 4	100	10	636	.30	1.24	•••
ME - COOE -0,	*****	På NA								
GASE NO.	1- 42	\$£3 F	LUNG	853.6	1000	500	1.366	2.73 CRRL®	3.20	3.20
OCCUPATION RESIDENT	RESIDENT SCRANTON	ABE 75 VEARS MA	KIOMEY	16.6	166	10 30	**10	8.30	25.94	7.78
STATE CAUSE OF BEATH NEW COOL NO.	PENNA. CARDIAC 428+3	7EAR 1968								
#4# AA	10.84	461 F	1100	1068-8	1000	500	•916	2.03	1.72	1.72
GASE NO. OCCUPATION	HOUSEAILE	40 304	LUMB	4.1	100	18	.110	444L+	4476	1.41
# TATE AL	MA MA	TEARS NA	KIONEY	234+6	100	**		••••	•	• • •
GAUSE OF DEATH MET CODE NO.	POST OF SHOCK	KO NA								
CASE NO.	1- 06	3E1 F	LIVER		1000	50	.000	1,60	.72	1.23
OCCUPATION RESIDENT	MOUSEWIFE SANTA FE	TEARS NA	FARBH	956.6 2.6	1000	500 10	1.101	4mm7.	3,46 <#RL	•
STATE CAUSE OF DEATH	ME # MEXICO	TEAR 1960	RIDNEY	459.6	100	10	••1•	4HRL*	<#AL	•
WES COOK NO.	LEUKENIA 204.0	R6 #4								
645E AQ.	1- 45	\$E1 F	LIVER	1100.0	1000	50 544	.459	1.00	,05 3,49	3.49
OCCUPATION RESIDENT	Mousewife Ma	46L 77 Years ma	FARSH	3.6	1000	10	4919	4HRL		
STATE SAUSE OF DEATH MES CODE NO.	ma Arteriasclerosiș 420:0	TEAR 1960	# 10MEY	244.1	100	10	4.000	anal*	dwe?	
		5E2 F	LIVER	854.6	1000	50	.030	.60	.74	
EASE NO. OCCUPATION	1- 98 HOUSE+1FE	101 21	TUNE	834+6	1000	300	.339	,45	.61 32.14	.35
RESIDENT STATE	NOVA SCOTIA British Co	TEARS B	KIONEY	14.6 243.6	50 100	10	.044	•41	2.00	•4•
MEN COOF NO.		7542 1969 80 MA								
SASE NO.	1-104	SCI M	LIVER	2120.0	1000	50	.061	1.20	•\$7 1•71	
OCCUPATION DESIDENT	MA MA	405 31 YEARS NA	LUNG	1460.0 11.6	1000	500 16	1.249	1.40	145.45	1.45
STATE SAUSE OF DEATH	MA ALCOMOLISM	YEAR 1944	HIDNEY	375.6	100	10	-140	1.40	••••	••••
hes cook no.	301+0	KO NA								3.22
SASE NO. OCCUPATION	1=142 HOUSE #1FE	\$£1 F	LIVER	1488.8	1000	54 544	.140 .578	2.60 1.20	1.89 1.89	1.85
RESIDENT	NA	YEARS WA	LYMPH KIDNET	28 · 6 170 · 4	50 100	10	.100	1.30	17.84 7.65	
STATE CAUSE OF DEATH MEW COOL NO,	MACCARDIAL HYPER 422.7	TEAR 1961 RO MA	W. 2011C 1	••••	•••	••		•		
GASE NO.	1-144	SC1 7	LIVER	2070-6	1000		.940	.60		
OCCUPATION OCSIDENT	HOUSE OFF	JOE 45 YEARS NA	FARBH	3435-0 7. 0	1000 50	500 10	.439 .144	1.26	100.00	1.00
STATE CAUSE OF BEATH	MA	7EAR 1961	KIDMEY	267.4	100	10	•••	•41	1.50	,
MES COOF HO.	490-9	MA MA		•	•					
Gast no.	1-144	SE1 #	LIVER	3144.6	1000	50	.100 .210	3.40 4.20		
OCCUPATION RESIDENT	HOUSEWIFE NA	ABE SO YEARS MA	LUNG	775.6	1000	10	4.000	CHRL	4 CMRL	•
STATE OF BEATH	MA	YEAR 1961	RIDHEY	891.0	700	10	.***	,41		. ,
MER COOL NO.	170.0	#6 MA				•	٠			
EASE NO.	1-144	\$E3 H	FIAES	1292-0 610-6	1000	50 500	.040 .513	.00 1.19	2.33	\$.33
OCCUPATION PESIDENT	FORST SERV SANTA FE	AGE TO TEARS NA	FARBH	21.4	50	10	.010	CHR:		.•
STATE OF WEATH	NEW MEXICO NUMTE-DO ADRTA	1642 1961	RICHEY	1:5-4	100	1.0	*****			
ME# CODE NO.	453.9	RO NA								
•			•							

		•	TISSUE	PETTY TO THE COMMENT OF THE COMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT O	VOLUME CY SEATUR (EG)	######################################	IDIPAMIPP AUT WAST PER TOSIASIA	#271+177 #2F C=01% #210-7 #D18/#1%)	PLR RG (DIS/MIN)	ACTIVITY STANJARU GRJAN (DIS/NIN)
CASE NO. OCCUPATION MESIDENT STATE CAUSE OF DEATH MED CODE NO.	2+ 6 METIRED MA MUPT VENTRICLE 420-1	SET M AGE TO VEARS MA VEAR 1961 MG MA	LIVER LUMB LYMPH #10MEY	1045.6 785.9 7.6 316.6	1000 1000 50	50 500 16 10	.005 .906 8.008 .009	,06 2,02 4MQ.* ,40	j•50 414fe 5*37 *80	.00 8.31 .30
GASE NO. OCCUPATION DESIDENT STATE GAUSE OF DEATH WEW COOL NO.	2- 12 RETIRED ME JERSEY WEPHRITIS 573-0	SEX N AGE TO YEARS NA YEAR 1961 NO NA	ETAEA FAND ETAEA ETAEA	2+00.0 1167+0 33.0 200+0	1000 1000 30 104	50 50 10 20	.052 .015 .020 .026	CHRLO CHRLO CHRLO	.73 emplo emplo emplo	1,20
EASE NO. OCCUPATION OCSIDENT STATE CAUSE OF OCATH OCO 2006 NO.	20 10 MA MA MA MA	SEX F ABE SA YEARS NA YEAR 1961 RB NA	ETONEA FAND FINES FINES	9855.4 943.6 14.0 430.0	3000 3000 30 200	50 50 10 10	.003 .045 .000 0,000	enur. enur. 100 enur.	< MBL	.**
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF OCATH NEW COOL DG.	2" 16 MA MA MA BILE MEPHROSES 972.6	SCI F ADE SO VEARS MA VEAR LOA! RO NA	KIBNEY FANDH FAND FINES	857.6 876.6 28.6 254.8	1000 1000 50 100	\$0 \$0 10 10	.034 .065 .010 .017	ensio ensio ensio	.79 enk.• e _{nk.•} e _{nk.•}	7.35
GASE AG. GCCUPATION MESIDENT STATE CAUSE OF DEATH MEN CODE AG.	2- 22 MOUSEUJFE NA NEW JERSEY PANCREAS CANCER 197-9	961 P 40 40 7648 HA 7648 HA	KIDNEA FARBH FONG FIAEB	1505.0 541.6 0.0 400.0	1000	50 30 10 10	.018 .002 0.008 0.000	anut o anut o anut o anut o	awar a awar a awar a	
FASE NO. OCCUPATION RESIDENT BTATE GAUSE OF DEATH REW CODE NO.	2- 20 NA NA CEREOPAL MEN 331.0	SEI M ABE TA VEARS HA VEAR 1041 RA HA	LIVER LUMB LYMPH RIDMEY	1150.6 1404.6 20.6 207.6	1000 1000 30 200	50 50 10 10	.114 .104 0.000	4MH7-0 4MH7-0 5-94 5-58	<pre>4mp? </pre>	
CASE NO. UCCLPATION NESIDENT STATE CAUSE OF BEATM NEW CCDE NO.	2- 28 MOUSEUJFE MA 61LIARY SCC 500 3	SER F AGE 71 YEARS NA YEAR 1901 NG NA	Kidnea Farbh Fire Fire	1480.0 863.0 11.0 272.0	1000 1000 50 100	50 50 10 10	,494 1,547 ,028 6,000	9.96 31.34 enri- enri-	4MET . 20 · 35 4 · 48	
Case No. SCLUPATION MESIDENT STATE CAUSE OF WEATH MES CODE NO.	PO 38 RETIRED ESPANDIA NEW MEXICO EMPHYSEMA BET 3	SEX M 49E &6 7CARS NA 7EAR 1962 R6 NA	KIOHEA FRUG FIAEU	845.6 875.6 200.8	1000 1000 100	5e 5a 10	•915 •915	2.34 1.64 engle	2.62 1.19 2.62	3-19
GASE NO. BCCUPATION NESIDENT STATE SAUSE OF SEATH MET CODE NO.	E- 36 RETIMED CHARLDYTE N GAROLINA NA NA	861 M 467 96 467	BIOMEA FAMBH FIMB FIAEB	848.6 916.8 9.8 162.8	2000 2000 50 100	50 500 10 10	.963 .341 0.000 .004	1.26 .68 <#RL0 d#RL0	1.50 «HRL« • • 18	
Sast no. Occupation nesinger state fause of death ple cole no.	8- 40 BLTIMED BEPANDLA MED WEXICO PULLUCNIA 491-9	SEE M AGE OF YEARS HA YEAR 1962 RG MA	LIVER LYMPH LYMPH LIDVEY VERILBRAE	1076.6 1177.8 4.0 215.6 254.8	1000 1000 30 100 230	50 500 10 10	.014 .363 .604 6.600	4HRL® 73 4HRL® 4HRL®	enfig .42 enfig enfig enfig	.42
CASE AD. OCLUPATION WESCENT STATE CAUSE OF BEATM PEO COLE AD.	PA 45 BLILLED E25477 BLILLED BATTLED B	563 W 436 77 76885 NA 7688 1942 80 NA	KICUEA FANDH FRAG FIRE	3043.0 742.0 9.0 390.0	1000 1000 50 100	50 509 16 30	.016 .138 .603 8.608	4mc" o 4mg" o 4mgf o 4mgf o	4MFL 0 4MFL 0 4MFL 0	•37
GASE AND ECC.PATION ECS.CERT STITE ECUST OF EESTM TOS COOK NOO	e- 62 	222 F 402 72 72453 ha 7247 1942 86 1.4	LINER LUIS LINER VICLEY RIS	1451.1 914.0 12-0 211.0 222.0	1:0: 1:0: 50 193 21:	50 50 10 10	023. 175. 023.6 114. 000.0	1.08 .54 .61_6 .61_6	<pre><pre><pre><pre></pre></pre></pre></pre>	

•										
	•	٠	71884E	NET NEIGHT SAMILE (GRAI)	38	92,048 51,718 2,41,712 (20)	ACTIVITY FER VUL AVAL (CISCHING	ATTIVITY FIR LEGAN FFIR ** (DIS/*IN)	bija Mij	4.*1.1** 5'-1.4* 10.4* 10.4*
CASE AJ. CCL.FATION MEDICENT STATE CAUSE OF CEATM BEN CODE NO.	2- 72 No ESPANILA NEW MEXICO CAPPIAC ADO-7	SER M AIE AI YEARS VA YEAR 1962 NG NA	11158 11170 813707	1:21+8 1++3 277+8	1083 53 1083	53 10 16	.059 C.003 E.018	3.70 46414 46624	489 405_0 406_0	1.52
GASE NO. ECCLUPATION RESIDENT STATE CAUSE OF DEATH NEW CODE NO.	2-10- Child Child Espendia Men Pexico Leurenia 204-9	SCE F AGE 12 YEARS MA YEAR 1962 RB NA	ale KirveA Farby Fare	948.9 163.8 1.0 175.0 79.0	100 100 50 100	50 10 10 10 10	.929 .700 6.688 9.000	dudiq entle fuele emple	46.63 46.63 445.6 445.6	46.43
GASE NO. OCCUPATION RESIDENT STATE GAUSE OF BEATH NEW CODE NO.	2-100 TPUCA DRIV ESPANDLA WEW MERICO INJUNIZS E025-0	\$EX W AGE 27 YEARS WA YEAR 1962 NO NA	FINEA FINEA FIRE FIRE	\$\$4.6 \$\$4.6 \$12.6 \$383.6	3000 2000 100 500	50 50 10	.020 .000 6.000 6.000	shbro swert 1.50 swert	4497.e 4497.e 4497.e	1.45
FASE ND. OCCUPATION MEDIDENT STATE SAUSE OF DEATH MEW CODE NO.	2-108 MOUSEWIFE ESPANGLA NEW MEXICO NEPHRITIS 100-0	MO NO AERU 1405 AERUS NV NOC 00 SET &	Fired Figura Fig	3117-8 631-8 11-0 100-6 219	1000 1000 100 250	50 10 20	.030 .010 0.000 0.000 .070	.60 enfl- enfl- 1.75	.54 emals emals emals 6.16	
GASE NO. OCCUPATION MEDIDENT STATE GAUSE OF OCATH MED GOOD NO.	2-116 MOUSETFE MASTINGS MEGRASKA COMOMARY THROMS 620-1	SEX F ABE 64 YEARS MA YEAR 1962 EB MA	KIDNEA FINE FIAEL	1875.0 1304.0 286.6	1000 1000 100	54 5 ₅ 19	.030 .180 9.400	-69 3-60 -68€L•	.36 2.76 gmal•	.65 2.76
GASE NO- DECUPATION RESIDENT STATE GAUSE OF DEATH MEM CODE NO.	2-118 MOUSEUTPE ANTON TERAS CANCER OF PELVIS 199.0	SES F 406 TO YEARS NA YEAR 1962 RO NA	EIS EIDHET FANN FANN FIAEN	1216-6 573-5 7-6 217-6 263-8	1999 1000 50 100 250	9e 5e 1e 1e 25	.076 .116 .116 0.000 0.000	1.88 2.20 .35 <mrt- empl-</mrt- 	1.49 3.64 70:57 «MRL«	
GASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MED CODE NO.	E-120 Ma ALGUEQUERQUE ME- MEXICO SKULL FRACTURE E025.	M E38 C5 30a AG 27 AG 28A3Y S601 RAST AG BR	EIDNEY RIDNEY RIPPH RIPPH RIPPH	1341-6 11-6 235-6 225-6	1000 30 100 250	59 10 10 10	0.000 0.000 6.000 0.000	anulo anulo anulo anulo	4 MB F + 4 MB F + 4 MB F +	
GASE NO. OCCUPATION MESIDENT STATE CAUSE OF DEATH MED CODE NO.	2-126 DENY ASSY POJDAQUE NEW MEXICO LEUKEMIA 200-3	SE3 F 400 36 YEARS NA YEAR 1962 NO MA	fiael fara fare fiael	\$01.8 0.0 1308.0 5049.0	1000 1000 50 100	25 25 10 10	.032 .054 .156 .026	1.24 2.14 .76 	,43 3.68 97.50 4MNL	.74 3:46 497
SASE NO. SECUPATION RESIDENT STATE SAUSE OF SEATH NEW CODE NO.	2-138 RETIRED LAS VEGAS NYOCARDIAL 1MF 920-1	SE3 M 40E 49 YEARS NA YEAR 1963 K6 MA	FIAEU FABH EIAEU FIAEU	1273.0 	1000 2000 50 100 500	10 10 10 10	0.000 0.000 0.000 0.000	emure emure emure emure	1.06 4mg,0 4mg,0 4mg,0	1.00
SASE NO. OCCUPATION RESIDENT STATE SAUSE OF DEATH MEW CODF NO.	2-148 NA TICRRA AMARILLA MEM MERICO PHEUMONIA 401-0	862 M 406 71 7688 MA 7688 1963 80 MA	WIR KIDNEA FAND FINE	000.0 670.0 10.0 220.0 321.0	1000 1000 100 200 250	25 500 16 10 10	.105 3.432 .018 .023 .823	4,20 3,24 4481,4 4481,4 5,57	5.25 6.81 4MAL0 4MAL0 17.37	2.92 4.61 121.57
ELEF NO. SECUPATION RESIDENT STATE GAUSE OF SEATH MES CODE NO.	PERENJA BJO CALRENTE GENTE BJO CALRENTE CALLO BO	SC; W AGC 13 YEARS NA YEAR 1063 RG NA	BIB FANDA FIREB	1143.0 1315.0 24.6 883.0	1000 1000 90 204	25 900 10 10	.076 2.158 .016 .112	2,04 2,32 <nrl*< td=""><td>2.06 1.76 <hrl0 12.50</hrl0 </td><td>4,52 1,76 87,89</td></nrl*<>	2.06 1.76 <hrl0 12.50</hrl0 	4,52 1,76 87,89
GASE NO. OCCUPATION BESIDENT STATE CAUSE OF DEATH REP CCOL NO.	3- 30 MA WAMA 151.C 3- 30	SER M AGE SA VEARS NA VEAR 1967 KG MA	Fines Fines	1050.0 1040.0 10.0 340.0 75.6	1000 100 100 250	25 500 10 10 10	.100 .670 .611 .637 .231	4.08 1.36 «MRL» «MRL» 5.77	3.81 1.39 «MRL» «MRL» 77,10	6.48 [.36 524.63

						•				
				427	AGERAE	VOLUME	ACT14177	ACTIVITY	ACTIVETY	ACTIVITY
			7155UE	DE 11	C#	24-7-5	*2=	PER CHAIN		PEP
				2441 . E	\$1. P. E	ASP. YEED	ASP GVPP	\$51897 1015/6163	(\$15/#IN)	STANDARD
				(QXT.)	162)	(55)	(CIS/MIN)	(5.3/73/1)		ICIS/PINT
•								•		
						500	.499	1.00	.97	.97
fast no.	3- 38	SEE M	LYHPH LYHPH	1021.6 3.6	1000 50	77	0.000	4467.0	ent	
accupati on	MILITARY Santa Pe	ADE 71 - VEBRS NA -	KIDNET	34.0	388	. 10	4.000	cant.	enal.	54.00
81476	NEW MERICO		WIB	125.0	251	10	.040	1.00	6.44	
CAUSE OF DEATH		TEAR 1967								
BET COOL NO.	123.0	re ma								
	>- >×	32x m	LIVER	987.6	1000	25	.051	2,32	2.35	4.11
ease no. uccupation	COOK, WALTER J	48E 64	LUNG	1940.8	1000	500	1.052	2.10	2.02	5.42
ACSIDENT 1	3-47 3034 416.0	TEARS NA	LYMPH	24.4	50	10	.020	dur.	angle angle	**
STATE	MA +		# 1DME A	377.0	100 256	10	0.000 .038	angl ^a .75	0.33	\$0.33
CAUSE OF BEATH	wCV	TEAR 1967 RG NA	819	***	224	••	****	•••		
**** **.	2- 41	8C2 M	LIVER	1608.9	1000	25	.106	4.24	2.64	4,48
GASE NO. OCCUPATION	~ **	466 47	LUNG	975+0	1000	ž\$.018	dagl.		
RESIDENT	ESPANOLA .	TEARS NA	LYPPH	16.6	.54	10	9,000	<##L+		
STATE	MER MEXICO	YEAR 1967	KIDMEA	361.0	100	10	****	-		
CAUSE OF BEATH	PERITONITIS B74-6	RS MA								
EASE NO.	>- Se	SEX M	LIVER	. 1000-0	1000	25	.004	3.20	2.78	3.02
DECUPATION	84	AGE TA	LUNG	1016.0	1000	25	.036	CHRL.	1.82 «MAL»	3.02
MESIGENT	7403	TEARS NA	FAREM	14.0	50 100	10 10	.015	,54	1.04	.31
STATE OF DEATH	MEN MEXICO PHEUMONIA	YEAR 1967	RIDNEY RIB	\$20.0 175.0	250	ii	.237	5.92	33.00	237.00
ME" CODE NO.	499.9	48 40		•						
	•									
EASE NO.	3- 52	SEE F	LIVER	2340.0	1000	25	.026 .	<ur>curl</ur>		1.49
SCCUPATION	NA	vař Se	FAMO.	896.8	1000	25	,042 ,154	1.68 .77	365.00	3.45
RESIDENT	TAOS	YEÀRS NA	LYMPH	2.0	50 106	16 16	•927	enet.		
STATE CAUSE OF BEATH	MEN MEXICO SKULL PRACTURE	YEAR 1967	KIDNEY RIB	320-8 70-8	250	iě	.168	4.20	40.00	420.00
ME - CODE	943+4	FB NA		****						
•	-									
CASE NO.	3- 56	867 F	FIACE	1336.0	1000	25	-131	5.24	3.44	6.70
OCCUPATION.	MOUSENIFE	468 51	LUNG	945.5	1000	25	.040	1.92	2.43 11.40	2.63
acsiden?	WA	YEARS HA	KIDHEY	15.6	50 100	10 10	.037	.37	1.44	.50
STATE GAUSE OF BEATH	ma RPTAD SPLEEN	TEAR 1967	WIR	63.4	256	ii	.317	7,92	125.79	889.50
HER CODE NO.	865,1	RO NA					•			
							***	<#RL	- CHAL-	١.
CABE NO.	3- 64	868 A	LIVER	1300-4	1900	25 25	.023	7.24	9.65	9.05
OCLUPATI ON MESIDENT	Mousewife Santa FE	AGE 70 YEARS NA	rang Fara	750- 4 10-0	50	10	.0.2	.21	13.15	.13
STATE	NEW MERICO		KIDNEY	360.0	100	10	•003	ent .	- CHUT-	
CAUSE OF DEATH	PERFORATED ULCER	YEAR 1967	010	50.0	250	10	.194	2.60	\$2.00	344.00 /
mes cape mo.	\$48.2	rs na								
				****		25	. #29	entl.	< MAL .	,
CASE NO.	3- 00 FARMER	561 K	FIAE	1688.8 1826.6	1000	25	.053	2.12	1.16	1.16
GCCUPATION RESIDENT	PENASCO	YEARS NA	THPH	3.4	***	10	8.909	<#RL*	- CHRL	,
BTATE	MEN MERICO		KIDNEY	•50 · 0	100	30	0.000	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
CAUSE OF BEATH	RHEUMATIC MEART	TEAR 1967	R16	76.0	188	10	.015	<hrl.< td=""><td></td><td>•</td></hrl.<>		•
men coot wo.	414.9	RS NA								
CASE NO.	3- 10	3E3 H	LIVER	1000.0	1000	25	.454	2.32	2.32	3,94
SCCLPATION	MA	C0 384	LUNG	1310.4	1000	25	.157	4.28	4,79	4.79
RESIDENT	ESPANDLA	TEARS NA	LYMPH	6.0	50	10	.016	entl.		
STATE OF DEATH	NEW MEXICO PNEUMONIA	7E48 1948'	RIDNEY	270.0 35.0	100	10 10	.00) .023	CHRL CHRL		
MED COME NO.	493.9	to MA	~	3314	•••	••	****			

CASE NO.	3- II	3E# F	LIVER	2435.4	3000	25	.051	2,64	2.42	2.42
SCLUPATION	MOUSE#1FE	46E 75	LUNG	580.0	1000	25	• • • • •	enst.		
aesicent	MA	AETUS NY	KIDNEY	5.0 310.0	50 105	10 10		chbf.e		
STATE OF DEATH	MA ACUTE ASTRMA	YEAR 1968	WIDWEA	50.0	180		.001	4646		
bee cost we.	gel. #	ES NA		••••	•••			•	_	
EASE NO.	3- 9¢	8C1 #	LIVER	2710-0	1000	25	+114	4,56	1,60	2.04
GCCUPATION.	FARMER	16E 26	TORG	1056-6	1000	25	.001	4mble enste		
HESICENT BIATE	twesco Ata >teleb	TEARS NA	LYPPH Kichey	2.0 465.8	56 100	10	.015	(p2)	CHR.	•
CALSE OF BEATH	15045414	YEAR 1948	NIS.	\$0.4	100	ii	.05-	aug .		•
ME CCOL MO.	953.9	EG NA					•			
EASE NO.	3- 45	alı m	FIAEL	1565-4	1000	25	.020	que e		
#25-##-1CM	TEACHEA	452 43	66.0	1215-8	1001	25	.029	, = à . ¢	445i. 141:25	1.41
HESICENT STATE	POJ0atyE NEW ≃ixico	TEARS NA	LTHEN RICHET	200- e	30	10 10	•113 4.600	488 4492	101159	
E4-SE OF DEATH	PALLECAIA	4544 1448	*15	35.9	105	iŏ	.613	200	- enti-	
et ccat ns.	493.9	KG NA		•						

			TISSUE	WET DEIONI SAUT-E (GRAM)	10114E (7 521FuE & (86)	3	TOISCHIPP AT FORT PES PCAIAILA	AC":	LP 88 15/8151	101111 262 572 1490 1204 1015/-141
CASE NO. COUPATION RENIDENT STATE GAUSE OF DEATH MEN CODE AD.	3- 4- n: sinta pe neo misico ma Na	M 632 15 21 14 2837 14 63 14 63	LIVER LUNS LYAPE RIDNEY PIB	1670-6 855-3 6-8 360-6 .107-8	1030 13:0 50 100 250	25 10 10 10	.032 2.454 .012 4.803 .092	1.26 150.15 407.0 407.0 407.0	.77 231.62 404.0 404.0	\$3; *8\$ 1*30
CASE AD. OCCUPATION MESIDENT STATE SAUSE OF DEATH MEN CODE AD.	9- 96 FARMER VELACIO CANCER 199-8	SES M BOE ST YEARS WA YEAR 1960 RG MA	BIR BICHEA FARM FINE FIAES	1625.0 1010.4 3.8 295.0 150-4	1000 1000 50 100 250	25 16 19 10	.011 .011 .006	CHETO CHETO CHETO CHETO	dhdfe dngfe dngfe dngfe	. • •
CASE 40. OCCUPATION PESIDENT STATE CAUSE OF BEATH MEN COOK 40.	S- 4 COLO OFICL SANTA PE NEW MEXICO ARPLH ACCIONT E006.0	3EI # 4GE 49 YEARS 49 YEAR 1967 RB MA	FING	\$352.4 \$20.4	1000	250	.614 .120	2,46 · -46	-50	.59
GASE NO- OCCUPATION MESIDENT STATE CAUSE OF DEATH MED CODE NO-	S- S MA APACME MESERVATIO ACUTE ALCMOLISM 301-2	SEX M AGE ST YEARS ST YEAR 1047 NO MA	LIVER LUMB	1942-8	7000 3000	250 250	*100	4,61 ,74	3.66 •71	6.28 •71
GASE MO- OCCUPATION RESIDENT STATE CAUSE OF BEATH MEW COOL MO-	S- B CONSTRUCTN SANTA FE NEW MEXICO MEART ATTACK 620-1	SEL M AGE SO YEARS SO TEAR 1947 RO MA	FIAEK	257e+8 73e+8	1000	254	8.666 •763	16.72 1.53	6.63 2.6 ⁹	8.0°
EASE NO. SCCUPATION RESIDENT STATE GAUSE OF BEATH REW COOL NO.	S- 10 FRST SERVE SANTA FE NEW MEXICO MEART ATTACK 420-1	SEI M ABE BA VEARS BA VEAR 1067 RB MA	LIVER LUNG	2002-8 5+12-6	1000	25¢ 25¢	1.500	4,89 4,89	2.43 8.97	4.01 5.97
EASE NO. OCCUPATION MESIDENT STATE CAUSE OF BEATM MED COOL NO.	S- 12 MA APACHE RESY. MA	SER F 606 86 YEARS 20 YEAR 1967 RG MA	FAMO	166C+8 985+8	1000	250 250	•476 •100	1.91 .78	.73	3.96 .73
EASE NO. SCEUPATION MESIDENT BYATE CAUSE OF DEATH MESI COOK NO.	S- 28 MA SANTA FE NEW MEXICO ART THROMBOSIS 578-2	SER M AGE TO YEARS MA YEAR 1969 KO MA	fine	1710-0	1999	500	1.816	2,43	1.48	1.62
GASE NO. OCCUPATION RESIDENT STATE GAUSE OF DEATH ORD COOE NO.	9- 26 NA ENSENADA MEW MERICO	REAR 1040 ACTUS NT TOWN SE TOWN SE TOW	LIVER LUNG	830+8	1000	500	.101 .279	,34 ,54	•23 •67	.36 .67
CASE NO. OCCUPATION OCSIDENT STATE CAUSE OF DEATH MEN CODE NO.	S- 32 FRST SERV TOAS PUBBLO NEW MEXICO	- BEX M AGE AT YEÀRS MA YEAR 1966 NG MA	FAME	1876-8 927-8	1000	500 500	1.227 2.363	8,48 4,61	1.31 4.97	
GASE NO. OCCUPATION NESIDENT STATE CAUSE OF DEATH NEW CODE NO.	S- 42 MOUSEWEFE VELARDE NEW MEXICO	SEA F 406 50 YEARS 50 YEAR 1949 86 MA	LIVER	3250-0 000-0	1000	300 250	1.000 .427	g.16 .85	1.72 3.24	
EASE NO. OCCUPATION NESTOENT STATE CAUSE OF DEATH MEN CODE NO.	S- 44 MA SANTA PE NEW MEXICO	SEX R 408 TEARS 33 YEAR 1076 83 NA		3386.6 5.8 300.4 65.6	1000 25 100 100	250 10 10 10	.294 6-880 8-989 -879	enfl.		

•										ACTIVITY :
			115548	₩ <u>5</u> 1 ₩636-7	V:	\$52.45 \$6546	#17141TV #6#	ACTIVITY		PER
				\$4 mi Ē	SALFLE	ANALYZED ICCI	VOL ANAL IGIS/MIND	1013/HINI	(DIS/RIA)	STANCARD
•	_			1644-1	1651	1001	10101-10	,		(012\wtm)
	•					•		• 40		A.48
EASE NO. OCCUPATION	5- 54	862 N 195 70 -	LUMB	961 . 0 733 . 0	1000 1000	250 250	.912 .158	3,65	3,66	4,45
PESIDENT	MA BEWITT	YEARS TO	FARSH	F. 0	***	30	.433	.10	33.00	.33
STATE	MICHIGAN	4E44 14 6	KIDNEY	303.0	100 250	10	.044	,64 <#RL*	2.11 CMRL*	.63
CAUSE OF DEATH	CARCINOMA 199.8	40 WY	VERTEORAE	135.0	6.4	•••	••••			
#### ###					-	•	344	.76	.78	1.33
GASE NO. OCCUPATION	S- OS PCTRY WRKE	40 Jet	FINEN	975.0 1819.8	544 544	350 250	.362 .373	.75	•41	•41
MESIDENT	SANTA PE	TEARS 64	LYPPH .	9.0	25	10	.043	.11 CHRL®	2).50	.21
STATE OF BEATH	MEXICO CimpMosis	TEAR 19 8	ridhey Ventebrae	297 · 0 106 · 0	166 258	100	.923	.14	1.38	0,25
NC# 600£ NO.	461+1	RB NA					-			
C48E 40-	5- 54	132 m	LVMG	1042-6	500	254	.763	1.53	1.44	1.46
0664441 0 00	MA	A05 76	LYMPH	3.0	. 25	30	.046	•11	36.33	.28 .48
hesident State	SANTA PE NEW MERICO	VEARS 75	Kioney Yertebrae	172.0	100 250	10	••••	•31	1.42	9.97
CAUSE OF DEATH	MATRL CAUSES	ACUE TO 0				•••				
et coot no.	410.0	KO MA								
CASE NO.	\$- 68	SEX H	LIVER	2267.6	500	254	1.979	3,96	1.75	2.47 2.45
OCCUPATION DESIDENT	RADID TECH SANTA FE	AGE 48 YEAR\$ 47	rang Pang	1624.4	\$00 25	259 10	1.508	3.02	43.12	1:33
STATE	MEN MEXICO		RIDNEY	494+8	100	30	.006	4HRL*	2.25	15.75
CAUSE OF DEATH	HÉART ÁTTACK 420.9	TEAR 19 8	SARGITASV	60.4	254	166	.954	•••		••••
EASE NO.	5- 70	SEI M	LIVER	1502.0	844	254	2.744	5,92	3.79	6.45
BCCUPATION	LABORER	402 69	FUFB	667.6	500	25.	.004	1.37	1.99	1.99
MESIDENT	SANTA EE	AETUR PO	FANGE .	10-4	35 100	10 /	-042	•15	15.50	.15 .53
STATE OF DEATH	NEW MEXICO SKULL PRACTURE	TEAR 19 8	atoney Vertebrae	120.0	žii	100	.427	angl.	4MAL 4	
mes cope no-	E966-6	AB NA								
SASE NO.	5- 72	\$E# #	LUNB	710-0	500	250	.152	,30	.43	.43
OCCUPATION.	CONTRACTOR	468 97	FAREN	£.6	. 25	10	.061	•15 •57	30.50	.30
BESIDENT STATE	SANTA PE NEW MEXICO	TEARS NA	KIDNEY VERTEBRAE	152.4	146 200	100	.116	.24	1.78	13.33
CASSE OF BEATH		AEW 14 0								
MES CODE NO.	6010.0	AN SA								
CASE NO.	5- 76	SEX F	LIVER	1295.0	500	290	1.474	2.95	2.20	3.87
OCCUPATION	HOUSEVIFE	46E 54	LUNG	950.6	540	250	.249	.60	.63	.43
AEDJDENT STATE	MER MEXICO CONDOAT	YEARS NA	KIDYEA Parr	. L. Q	106	10 10	4.000	<##L•	anyl e	
GAUSE OF DEATH	BRAIN TUMOR	YEAR 1978	VERTERNAE	90.6	200	100	.425	4MAL*	CHAL	
me cope mo.	143-1	AS NA								
CASE NO.	5- 42	\$E\$ #	LIVER	1473.0	500	10	-194	4.74	6.59	11-19
UCEUPATI O N MESIDENT	MOUSEWIFE	406 40	LUNG	905+6	500	250	-121	.24 <#RL*	.30 <##L=	
STATE	CORDOVA NEW MEXICO	YEARS NA	KIDHEY	19:4	25 100	10	.011 .014	CHRL®	<wbl+< td=""><td></td></wbl+<>	
CAUSE OF DEATH	NA	YEAR 1976	PARESTRAY	40.0	200	100	.034	.47	1.13	7.43
MEN CODE NO.	NA	KO NA								
GASE NO.	5- 84	321 /	LIVER	1910-0	500	250	1.793	3.51	2.55	5.04
BCCUPATION RESIDENT	MOUSEWIFE PARKVIEW	AGE 76 Years ma	LYMPH	843+9 A.8	500	250	•287 •144	•\$7	45.00	.45
STATE	MEW PEXIED		KIDNEY	254.4	100	10	8.000	CHRL.	CMAL*	
ME CODE MO.	PHEUMONIA 491.9	TEAR 1978	PARESTRAY	66-6	200	100	0.500	«HAL"	<mrl•< td=""><td></td></mrl•<>	
8.85 A.D					.	••-				
CASE NO. CCC_PATION	S- SB MCGSEUIFE	362 F 466 41	LIVER	2653.0 655.0	500 500	25e 100	.756 .284	1.51 1.42	.57 2.17	.97 2.17
PESICENT	AVOCADS	YEARS 41	LYPPH	2.0	25	10	-151	.36	165.75	1.09
STATE CF DEATH	NEW PERICO	YEAR 1976	RIGHEY VERTEBRAE	366.6 55.8	100 200	10	.004	***L*	1,31	9.10
E CCGE AD.	NA.	RS NA					•	••		
CASE 40.	5- 11	SEX 4	LIVER	814248	500	250	2.753	5.51	2.57	4.37
GCCL#4710N PESICE:17	MISAY DEPT	AGE 58 YEARS NA	LUNG LYPPM	910.0	\$ 20	236 10	.31.	.63	.69 «Mil.»	• • •
5"A"E	NEO PERICO		RICHEY	365.0 .	100	10	8.000	Sping 0	4pRL0	
CALSE OF BEATH MEG SCOLL MO.	INJURIES ERSS.B	YEAR 1970 Mg na	ale	105.4	200	100	.643	.0*	,45	3.25
					_					
GASE NO. BEGURATION	5+ 92 ** \$4LE\$M4M	563 M 458 A1	FIAEB	1727 • 6 631 • 6	5:0 5:0	250 250	1.165	2,23	1.35 .59	. 2.29
6E\$10E47	SINTA FE	72493 39	FAREM	17.8	25	10		€6.7.€	CHR. 0	
STATE	AE+ MEXISO ALCHONOLISM	7EAR 1970	HICHEY RIG	356.4	100	10	.330		4 m f L &	41.19
"E" C::E #6.	326.3	K5 44		• • • • •				•••		

			TISSUE	WE" WEIGHT SAMPE	#0LUME . 07 Sa-FLE (CC)	SAMPLE SAMPLE AMELYTED 1001	ACT BUILT ACT BU	ACTIVITY PIR CAGAN REITHT ADIS/WINI	Pis Ku	activity sir staniaru iruan (Disprin)
GASE NO. BECUPATION	5= 9: 7 CF" w464	\$£% W	LIVEP LUNG	1274.6	593	250 250	2.179 •227	·· 4,36	2.33 411	3.99 461
MESIDENT STATE EAUSE OF DEATH MEW CODE NO.	SANTA SE MEW WEXICO MEART ATTACK 420+1	TEARS DA TEAR 1976 RO NA	#12 KIDVEA FADBU	316.6 100.8	25 140 240	18 16 166	.005 .635	.07	165	4,50
CASE NO. MCCUPATION	5- 48 Na	\$E1 # 0C 30	LIVER LIVER	2071-8 1572-0	500 500	250 250	.211 .2cs	.42	.2¢	.25
MESIDENT STATE CAUSE OF DEATH	SANTA FE NEW PERICO ASPIRATION	YEARS NA	KIDNEY RIONEY	10.0	25 200 200	10 10 10	4.000 .466 .957	ent.	40.0	4.44
MER CODE NO.	433.0	EQ NA		V	•					
GASE NO. SECURATION NESIDENT STATE CAUSE OF BEATH NEW EQDE NO.	S-106 MITACE MAN SANTA PE MEM MEXICO GHSHT YOUND E919-9	\$E3 R AGE 27 7EARS 27 7EAR 3978 RB NA	LUAB LYMPH RIDHEY	458.8 3.8 863.8	\$00 25 100	10	.276 6.788 .889	448f.e 448f.e 482	enuf. enuf.	.11
CASE NO.	\$-112	SEX H	LIVER	1425.4	500	100	.756 -136	3.74 •54	2.33 131	3,95
BCCUPATION BEDIDENT STATE CAUSE OF DEATH MEM CODE NO.	PHYSICIAN ESPANDLA NEW MEXICO DRUGS NA	AGE ST TEARS NA YEAR 1978 NO NA	KIDHEY RIDHEY RIB	1000.0 7.6 367.6 98	1000 29 300 200	10	.015 .005 .010	angle angle	aŭŝja andja andja	
GASE NO.	5-148	\$E1 #	LIVER	1350-6	1000	250	.449	2,60	1.42	3.27 •23
OCCUPATION RESIDENT STATE	PUTON CHICO PUTON CHICO EAIT DOES	AGE 19 Years ma	LUNG LYMPH KIDNEY	760+8 2+6 28++9	1000 25 100	250 16 10	+043 +007 +012	CHAL.	ANST.	
CAUSE OF BEATH MEN COOR NO.	BULLETS E919+8	YEAR 1971 86 MA	PERTEBRAE	95+8	200	100	.074	•15	1.54	10.07
CASE NO. BCCUPATION RESIDENT STATE	To 10 NA DULCE NEW MEXICO	SCR H AGE SB YEÀRS MA	Fires Fire Fires	1720-8 1917-0 9-5 229-0	1980 1980 25 199	250 250 10	.930 .109 .004 .912	3.72 .76 curle	2.14 .39 emri- emri- emri-	1
GAUSE OF DEATH MEN COOL NO.	SEPSIS 853.9	YEAR 1971	PERTERRAC	76+4	200	100	***	«MRL«	dum?.	
GASE NO. OCCUPATION MESIDENT	T- 22 NA SANTA FE	SEX M AGE 19 TEARS MA	FANDH FOWE FIACH	1474.4 1025.8 3.8	1000 1000 25	25¢	.246 .14] 0.000	.96 .96 <are< td=""><td>.45 .55 emrla</td><td>1-11 -55</td></are<>	.45 .55 emrla	1-11 -55
STATE SAUSE OF DEATH WEN CODE NO.	MEW MEXICO DRUG OVERDOS 989-8	YEAR 1971	RIDNEY VERTEBRAR	337+4 102+6	200	100	.004	400	*ARL *	4.12

•	or a minimum Bibby	TING LEVEL	43 D/M PER	SAMPLE VOL	BNALYZEN	BASED ON 1	IDTAL ENUNTS.	PRG-AND PEC	UVERT STATE	141162
•			TISTOF	o[1 6[154 4200[F (GPAN)	VELOUE SAMOLE (CC)	SINTLE SANTLE AVALTZED ICCI	ACTIVITY PRO VI SHAL (DIS/MIN)	Antinita Bud Contra Automi	PI 8 45	act;;;tv erb Stannamb Omnau (mis/min)
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF REATH NEW CROE NO.	9-100 S-100 S-100 S-100 S-100 S-100	SET M AGE 49 VEARS NA VEAR 1979 KG NA	EIB EAMEA EIDMEA EOMB	1355.8 10.6 486.6 117.8	\$00 25 140 200	250 10 10 106	•331 •012 •010 •079	.16 engle .16	.49 euglo euglo 1.35	••• •••5
EASE MD. BCCUPATION BCSINENT STATE CAUSE OF BEATM MEM ENDE MD.	6- 2 MA MA MA MA	SET NA AGE NA VEAR NA VEAR 1970 NG NA	GIB FAMBH FING FIACO	465.8 190.6 3.0 162.9	500 500 25 200	250 250 10 50	.669 •125 •012 •809	«hef. «hefe *\$2 f*38	2.94 1.32 emai-	4.83 1.32
CASE MD. OCCUPATION OESIDENT STATE CAUSE OF DEATM NEW CODE MO.	60 4 MA MA COLORADO MA MA	Set na Aby na Vear na Vear 1978 Rb na	alb fanba fing flags	\$00.6 325.0 3.0 150.0	500 500 25 200	250 250 10 50	.644 .548 .951 .013	1.33	2.66 3.37 62.58 .08	4.53 3.37 .42 4.16
CASE MP. DECUPATION DESTINENT STATE CAUSE OF DEATH MEW CODE NO.	6- 6 Na Na EOLORADO NA Na	See wa age wa vears wa vear 1976 kg wa	eld famen fing feafu	307.0 233.0 25.0 351.0	\$66 \$60 25 200	250 250 10 50	.412 .044 4.000	24× €13 €10 •13 •13 •13 •13 •13	ambr _e ambr _e •32 •13	
EASE OR. OCCUPATION RESIDENT STATE CAUSE OF REATM MEN CODE NO.	e e Na Enlorado Na	gev ma agf ma veag ma veag 1976 kg ma	uie Fanbe Fine Fiaeb	1013.0 502.0 10.0 144.0	\$00 25 200	250 250 10 50	\$+545 +133 +876 +884	3.69 -27 -481 -3.69	410 4 410 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$419 453
CASE WD. OCCUPATION RESIDENT STATE CAUSE DF OCATM MEW CODE MG.	6- 16 NA COLORADO NA NA	GER NA AGE VEARS NA VEAR 1976 KG NA	WIS FANDH FRANCE	484.8 17.0 397.9	50A 25 200	250 10 30	1.000 .050 .057	2.00 .13 .23	4.45 7.35 1.16	4.45 .07 8.18
EASE NO. DECUPATION RESIDENT STATE CAUSE OF REATH MET CODE NO.	8- 12 NA NA COLURADO NA NA	SER WA AGF WA VEARS WA VEAR 1970 KG WA	EIH Fambn Famb Fiae	343.0 137.0 2.0 110.0	500 500 25 200	250 250 10 50	•294 •835 •809 •837	.57 .06 <uni.**< td=""><td>3.67 .46 emp_4 3.28</td><td>2.83 .44 8.93</td></uni.**<>	3.67 .46 emp_4 3.28	2.83 .44 8.93
CASE ND. DCCUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	6- 16 Ma Culuradu Ma	GET NA AGE VEARS NA VEAR 1978 RG NA	BIO Fanda Fand	1165.0 107.0 230.0	\$40 25 200	250 10 50	.594 .818 .854	1.19 Sunt .25	1.67 4NRL4 .94	1.02
CASE MO. DECUPATION RESIDENT STATE CAUSE OF DEATH MED CODE MO.	b- 66 Ma Ma Colonado Ma Ma	SE' NA AGF NA VEARS NA VEAR 1976 KG NA	LIVER LUNG PIR	410.0 300.0 220.8	249 200 200	250 250 30	•615 •175 •••00	1.23 .75 cutto	3.00 -64 -440 -440 -440 -440 -440 -440 -44	5.10 •66
CASE NO. DCCUPATION PESTLENT STATE CAUSE OF DEATM NEW CODE NO.	6- 18 NA COLDRADD NA NA	SEE NA AGF VEARS NA VEAR 3979 NG NA	E IAEN Finen	715.0 3.0 125.0	506 25 200	251 10 50	1-149 	- 25 - 25 - 25	\$.05 400f4	10.11
CASE NO. DCCLPATION RESIDENT STATE CAUSE OF DEATM NEW CODE NO.	44 6- 56 47 6- 50 6- 50	SET HA AST HA VEARS HA VEAR 1970 KG HA	BIS FANDM FING FINEB	6)3.9 603.0 12.6 210.0	500 500 25 290	250 250 10 50	*518 *192 9*000 9*000	4.94 4.96 4.96 4.96	1.69 .27 	
CASE NO. DECUPATION RESIDENT STATE CAUSS OF REATH MER CODE NO.	6- 22 Na Va Cr_oraco Na Na	eet na age Teaps na Teap 1970 Ru na	bl9 f.mem flictu	310.0 5.6 138.0	\$20 200	250 18 50	.156 0.000 .020	448Fe 448Fe *31	< m2 / 6 4 m2 / 6 4 m4	1.40

•		·	TISSUE	ers ertuat Seraje egaemi	O.F	Vrijave Savrif Analy7787 4783	#C*[V177 PF# VC_ a*&L 10[57#]%)	activity of the control of the contr	EE# 45	\$6.24 (#1.2) \$2.24 (#2.2) \$2.2 \$2.2 \$2.2 \$2.2 \$2.2 \$2.2 \$2.2
CASE AN. OCCUPATION PESTORNE STATE CAUSE OF DEATH MED CODE NO.	6- 25 % % COLOCATIO % %	464 MA 46F 46APS MA 764R 1970 RG MA	BIR Fambri Famic	10.0 10.0 175.0	300 25 200	2° 5 10 59	*0)*	4027g	405.6 402.6 402.6	
CASE ND. BECUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	S- 28 SHTEMEREP NA CHINARDO MFART DESEASE AZO-1	SET #. 46° 75 VEARS NA VEAR 1971 NG NA	ele elbhía fhna fiais	959.0 1215.0 350.0 23.0	1600 1800 180	250 250 10 - 50	.427 .387 .844 .923	2.49 1.55 .64 488L	2.68 1.27 1.78 eva _b e	**** 1-7" ***
CASE NO. BCTIPATION DELIGITATION STATE CAUSE OF DEATH MED CODE NO.	6- 30 Salfsman MA Chineard Chinear Decluss 428-3	SET M AGF SZ VEART NA TEAR 1971 K6 NA	CONTD A Junk A Famen Fine Fire	\$038.0 1001.0 244.0 475.0	1000 1000 7 100 100	250 250 19 10 10	•552 •197 ••46 •462 ••91	2.21 .63 enrie .62 .01	1.09 .67 ***** 7.04 5.03	1,84 ,47 ,49 ,28
CASE NO. BCCUPATION RESIDENT STATE CAUSE OF DEATH REW CODE NO.	0- 32 NS NS NS NS NS	GER NA AGE NA VEARS NA VEAR 1971 KG NA	MIN FAMPH FIAEM	867.8 255.8 2.8 44.8	1000 1000 25 200	250 250 10 50	•966 •964 •830 ••89	408F.	6.[A 1.60 37.59 409[7-11 1-00 -37
GASE NO. OCCUPATION RESIDENT STATE GAUSE OF DEATH MEN CODE NO.	6- 34 NS NS Entorado NS NS	SEX MA AGF VEARS MA VEAR 1971 RG MA	ETAEN FIAEN	423.6 376.6 225.0	1000 1000 200	250 250 50	•327 •034 ••000	448Fe	3.89 .37 cum.0	\$.26 .37
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH ORW CODE NO.	6- 39 MELDEN NA MEANT DESPASE 478-0	SET M AGE 72 YEARS NA YEAR 1977 KG NA	eduad Ridhea Fiale	1406.8 225.5 16.8 72.9	3000 100 200 100	250 19 50	1.073 .006 .006 .077	4.29 .96 eug. e .77	3.87 6.77 «male 39.69	5.71 1.29 ,43
CASE ON. BCCUPATION BFSIDFYT STATE CAUSE OF DEATH MEW CODE NO.	6- 38 BHARMACIST NA Chighlad My Art Failure 426-2	554 # AGF 81 YEARS NA YEAR 1971 48 NA	LIVER LUNG LTMPH KIDNET RIR	1785.0 1181.0 10.0 390.0	3000 3000 25 100 200	250 250 10 10 50	.493 .966 .927 .121	1.97 .26 .448; 9 3.23 .440; 9	3.10 -22 <mb; 0<br="">3.10</mb;>	3.48 .72 .93
CASE MO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	6~ 48 NA COLORADO NA A 46 NA A A A A A A A A A A A A A A A A A A	SET F AGF TB VEARS NA VEAR 1971 RB NA	BIB KIDNEA FING FIAEB	1106.0 1211.9 351.0 26.0	300 100 100	250 250 16 50	.469 .276 018 0.808	1.98 1.18 40910 40910	\$ • 7\$ • • \$ \$ • • # \$ \$	2.49 .41
EASE NO. DECUPATION PESIDENT STATE CAUSE OF DEATH NEW COOL NO.	6- 6? MINISTER MA COLORADO: LIVEN AUSCÉSE SP2-8	5E1 PI AGE 74 VCAPS MA VEAR 3073 RG NA	RIN TARM TARM TARM	1514.0 1310.0 93.0 1044.0 , 17.0	1000 1000 25 100 200	256. 250 10 10 50	.855 .341 6.006 014 .028	endra endra grap grap	4maro 4mbro 4mbro 5.50	3.44
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH ORD CODE NO.	6- 66 Sub Forman Na Colorado ARTERIAL OCC 476-1	SET M AGE S3 TEARS NA TEAR 1971 K6 NA	BONTD Sid Tambh Fiaeb	2142.0 2251.0 2.0 30.0	1900 1900 25 200 100	250 250 10 50 10	.613 .344 6.868 .716 .118	1.16 empt = 1.49 5.43	1.13 -62 -481. 10.33	1.93 •62 .73
EASE NO. DECUPATION DESIDENT STATE EAUSE OF DEATH MEN CODE NO.	6- 46 MOUSEWIFE NA COLOMADO MYCADRIAL 1MF 428-1	SET F AGE GB TEARS NA VEAR 3971 RG NA	BIB FAMB FIAEB	717.0 1000.0 5.0 255.0	1040 1000 25 200	250 250 10 50	.411 .075 0.000 .017	448L*	embf. emaf. •38 \$•\$4	3.46
CASE NO. DCCUPATION PESIDENT STATE CAUSE OF DEATH NEW COOE NO.	The AB FED FUFLOY CO-OULD CAPCINOMA \$72	9E# F #0 59 +5x25 k4 YEAR 3471 NG NA	LIVER LING CTP	969.6 .et.6 .52.0	3000	250 200 50	.560 .577 .577	2,20 eus; 6 eus; 6	4+2.4 4+2.4	3,44

LANL

		·	TISSUE	off Sample (GRam)	Çr	VOLUME SINDLE ANALYZED (CC)	4511-117 Fra VOL 474F 4012-114	ationini, e bib (1244 fibrita formulation	ete kü	attivity pim Siandard Organ (DIS/MIN)
CASE NO. OCCUPATION OCSIDENT STATE CAUSE OF BEATM MES CASE NO.	6- SE MOR OCC ORONARY OCC OZONARY OCC	SEN M ADE SA YEARS NA YEAR 2972 KG NA	BIU HIOMEA FAMBN FAMB FEAEB	1309.0 1500.0 6.0 303.0 50.0	3000 25 300 200	250 250 10 10	.357 .892 .817 .817	1.63 .37 englo englo englo	i.e3 .24 dupto dusto dusto	1.75
CASE NO. OCCUPATION OCSTORY STATE CAUSE OF DEATH MEN CROC NO.	6- S2 MOUSEFIFE NA COLOMADO DIANCTES MELL 264.6	SEN F AGE 46 VEARS NA VEAR 1973 RG MA	EIDMEA FAMBH FIREB FIREB	2156.0 2612.0 3.0 355.0	1000 25 100	250 250 10 10	•322 •161 •036 •100	1.29 .00 J.99	94. 99.96 \$4.5	1.02 .46 .30 .03
CASE NO. OCCUPATION RESIDENT STATE COUSE OF SEATH NEW COSE NO.	6- S6 RET GROCER NA COLORADO PERTONITIS 576	SET M AGE 66 YEARS NA YEAR 1971 RG NA	BONED BIDNEA FINE FIRE	3978.9 3575.0 460.0 10.0 66.0	1000 1000 100 200 100	250 250 36 50 10	.409 .075 .049 .094 .030	1.96 .30 .40 4mal* .38	4.6) 1.02 4.63	3.08 .19 .31
FAR MR. OCCUPATION RESIDENT STATE CAUSE OF REATM MEW ENDE MR.	n- 5a NA NA COLOMADO MFART DESFASE 420-0	TO U P AUF BA VEARS NA VEAR 1971 RG NA	ula «IDNEA FANDH FING fiain	10/0.6 025.0 0.0 025.0 10.0	1646 3909 25 196 200	250 250 10 10	##17 •348 •893 •875 •819	ensto ensto ensto	4MA(0 1:50 4MA(0 4MA(0	1.50
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEN CROE NO.	6- SE NA NA COLORADO NEART DESEASE 020-2	SE1 M AGE 72 VEARS MA VEAR 1971 RG MA	BIR KIONEA FANDH FRNO	978.8 5.0 297.6 30.0	1000 25 300 200	250 16 19 50	*101 *823 *871 8.000	4M5/4 4M5/4 4M5/4	<#86.0	05
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH NEW COOE NO.	6- 60 Salesman Na Colonado Euphysema 502.0	SET M AGE MA YEARS MA YEAR 1971 KG MA	ELME FANDA FANDA FANDA FLACE F	1520.0 1470.0 3.0 27.0	200 1000 1000	250 250 10 50	.471 .118 6.666 8.666	1.00 .07 4majo 4majo	1.24 .32 «MRL»	2.11
CASE NO. OCCUPATION RESIDENT CAUSE OF DEATH MEW COOL NO.	6- 62 FLR MILLER NA EQ, MADO EMPHYSEMA 527-1	SE: M AGE 71 VEARS MA VEAR 1971 MA MA	LIVER LUNG LVHPH RIB BONAD	1600.0 2456.0 7.0 142.0	1010 1000 25 200 100	250 250 10 50 10	1.327 .129 .008 .029	5,3) .52 4m8; • 4m8; •	3.32 .21 .4MRL 4 .4MRL 6 .4MRL 6	\$.04 •21
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	6- 64 PARMER NA COLDRADO MEART DESEASE 420-1	SER # 465 75 YEARS WA YEAR 1971 RG MA	HIB KIDMEA FAMBH FINE FIAEB	2311.0 900.0 6.0 240.0 70.0	1000 1000 75 100 200	250 250 10 30	•292 •961 •934 •966 •131	1.17 .20 <mbl* .66 .92</mbl* 	+51 +27 EMRL+ 2+66 7+49	.n6 .27 .ns 52,40
CASE NO. QCCUPATION RESIDENT STATE CAUSE OF BEATN MEW CODE NO.	6- 66 Cappenter Na COLORADO CARCINOMA 162.1	SEL M AGE 70 VEARS MA VEAR 1971 K6 MA	CONTO BIS BIDMEA FING FIAE	1867.8 2519.8 419.8 120.8 25.8	300 200 3000 3000	250 250 10 50 10	131 -262 -930 900 96	5.72 1.05 .36 cmo_0	5.36 .69 .73 «MRL® 17.14	••12 ••• •22 •69
CASE MO. OCCUPATION PESTICENT STATE CAUSE OF DEATM MEN CODE NO.	6- 66 MDUSEWIFE MA COLORADO MYDCAHDIAL INF 620-1	SEX F AGE 83 YEARS MA YEAR 1971 KG MA	LIVER LUNG LUNG FIDMEY RIB BOWAD	1128.0 910.0 9.8 120.0 185.0	3989 1900 25 190 200 190	250 250 30 16 50	.351 .185 9.000 .870 .857	3.48 .74 4MB10 .70 .23	1.24 .78 .487 5.83 1.23 206.00	2,32 .78 1,75 8,63 8.00
CASE NO. DICUPATION PESTORY STATE CAUSE OF DEATH MEN COSE NO.	6- 70 CDAL MINA NA COLORADO PUL EMEDLISM 465-8	SER # 4GF # VEARS NA VEAR 1971 KO NA	ETANG FANDH FING FLACE F	835.8 3870.8 30.0 157.6 383.8	3900 3900 35 300 808	254 250 10 10 50	•351 •273 •614 •907 •156	1.48 .00 sum_0 suc_0 .62	1.69 .43 .40[.0 .40[.0	2.00 .07
CASE NO. DECUMATION PESIDENT STATE CAUSE OF DEATH PEN COTE NO.	0- 72 NA SOLORADO PAEUMONIA 493-9	SER F ACP 60 YEARS NA YEAR 1671 NO NA	BIB KIDHEA FANNY FINED	1328.0 891.0 140.0 272.0 190.0	1900 1036 25 100 208	25 0 250 10 10 50	•465 •656 0-130 •310 •20#	3.96 -20 -401 -401 -401 -403	3-48 -30 	2.38

			1153-E	#す。 #6での#す ちゅうでした そのもよべり	6.5	STUDE SAMELE ASSLITED VECT	CITENHINI ACT THET BEC TILINIAA	Antivire At Ber Conan B Beither Colstein Co	ga és 15 +1::	#2************************************
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEAFN CASE NO.	6- 76 Na Na Erinhano artemiosclemosis 420-0	SEA MY ACT OF ACT OF ACT OF ACT OF	LTUEN LTUE EVERN MILMEY SIM GUNAD	9<0.0 745.0 2.0 242.0 72.0 42.0	1011 1100 P5 102 203 100	250 750 10 10 10	6.550 .74 .614 .735 .655 .825	ein_4 ,47 qual_6 ,25 ,425 ,422 ps_4	3.05 3.05 3.76 4.2.0	1.15 21.25
CASE FD. DECUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	4- TET PETTED NA Entrado Empaysema S27-3	Ser w age 65 veaps na veap 1071 kg na	ETYTH ETY ETY BONAD	1116.5 60.6 2.6 160.6	1603 1603 25 280 180	250 250 10 50 10	1.P11 .237 .RC5 .058 .015	4mafa. *53 4mafa *42 **û*	408/8 5.35 406/6 3.45	4.16 1.67 15.24
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CHOE NO.	&- Ag MNTNCEMAN NA COLOMADD PNEIMONITIS A92-0	TER R AGE OF YEARS MA YEAR 1971 RG MA	ATU AIDNEA FAMBN FRAMBN	1550.0 6.8 800.0 77.0	1000 25 100 200	250 19 10 50	.974 8.909 .934 .189	.36 cunt.o .34 .44	• 28 «= 81 • • 21 • • • 6	.70 .36 39,64
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEN COOC NO.	6- R2 Patvier Na Chigrado Ard Aneumism 498-2	SET NA AGE 42 YEARS NA YEAR 1971 NB NA	LIVER LUNG LUNEY RIDNEY RIR	1876.0 1323.9 6.8 688.0	1000 1000 25 100 200	250 250 10 10	•453 •860 9 •006 •033 •007	.27 .33 .84 .81	,97 .18 cus, ,48 2.46	1.64 .19 .14 17.21
CASE WA. OCCUPATION RESIDENT STATE CAUSE OF DEATH MED CADE NO.	6- 84 RP 195 MAN NA COLORADO ARTERIAL OCC 332-1	SER M AGE SA VEARS MA VEAR 1971 KB MA	LIVER LUNG LYMPH KIDNEY RIB	1756.6 930.6 2.6 448.8 180.9	1000 1000 25 100 200	258 250 38 10 50	.948 .284 .901 .043 .068	.19 1.14 4.41 .43 .27	-11 1.22 -42 -42 1.51	.19 1.72 .20 10.58
CASE NO. DECUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	6- 86 MINISTER NA COLDRADO MEART FAILURE 434-1	SET M ADT BO YEARS MA YEAR 1971 NO MA	MID KIDNEA FAND FIAED FIAED	1014.0 970.0 1.5 159.0 123.0	1000 1000 25 100 200	250 250 10 10 50	.236 .366 .000 .013 .263	1.45 444 4441.4 2.05	.94 1.51 4mm.• 4mp.• 8.55	1.60 1.51 59.67
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEN CODE NO.	6- RR COLORADO PMEUMONJA 493-9	SER NA ARE 18 VEARS NA VEAR 1971 NG NA	BIR FAND FIND FIRE	192.0 1613.0 2.2 192.0	1970 1900 25 200	250 250 16 50	.446 .421 .004 .204	2.06 2.09 440; P 1.16	1.16 1.54 4mg ₁ .0 8.61	1.97 1.54 60.24
CASE NO. DECUPATION RESIDENT STATE CAUSE OF DEATH MED CADE NO.	6- 98 FARMER NA COLORADO PUL INFARCTION AGS-8	SER M AGE 75 VEARS NA VEAR 1971 MG NA	"LIVER LUNG LYMPH RIB	2432.0 1005.0 3.6 415.0	1000 1000 25 200	250 250 10 50	.497 .023 .180 .494	3.99 4MBL* .67 3.98	•82 <801• 156.47 4.76	1.39 1.57 33,33
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	6- 42 US HR STDS NA COLDRADO 6[MEMORRAMSE S78-2	SET M AGE 45 TEARS NA TEAR 1971 RS MA	uir Fambh Fame Fiagu	2760,0 1113.0 2.7 370.0	1000 1000 P3 200	250 250 10 50	•128 •972 •005 •93•	•51 •79 «unt.» •14	+18 +26 +MRL+ +37	.31 .26 2.57
EASE NO. DECUPATION RESIDENT STATE CAUSE. OF DEATH MED EDOE NO.	S- 96 MA MA COLGRADS CMR SMAIN SYMB 317+9	GET F AGE TO VEARS NA VEAR 1971 NO NA	uionea Eambh Fambh Fambh Fambh	850.0 045.0 7.4 127.0 255.0	1000 1000 23 100 200	250 250 10 10 50	•257 •322 •005 •068 •194	1.63 1.79 «MRL» .66 .70	1.23 1.92 emrle 6.56 3.64	2.06 1.52 1.07 21.30
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MED CODE NO.	6- 96 NA NA COLORADO PILMOY EMBOLÍ 485-8	SE: F ADT 38 VEARS NA VEAR 1971 KO MA	LIVER LUNG RIDHEY RIB	2463.0 1460.0 200.0 201.0	1000 1000 200	250 250 10 80	.072 .076 067 .073	437 430 4001 428	•15 •21 «**** 1.00	.25 .21
GASE MD. DCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	400-8 COTOWALD DETO UNEMBOS	RE1 M 80c 20 VEARS NA VEAR 1011 KG A4	EIMEA BIB BIB BICATO	1660.0 170.8 200.0 50.3	300 300 200 100	250 30 50 10	.028 .016 .110 .032	4 , 32	4481.0 4481.0 1.47 6.35	16,27 •25

		·	†15\$ 1-E	DET SIMPLE SEMBLE SEMBLE	35	VGLUPE SAMELE AMALETED ECCE	ACTIVITY FOR VIL ENAL IDIS/NINI	ACTIVITY PLE DICAN REIGHT 1015/MIN)	rem KG	ECT:VITY FED STANDARD OPGAN (DIS/MIM)
Case no. Occupation PESIDENT STATE CAUSE OF DEATH NEO CODE NO.	0-100 P.D. CLERK WA COLDRADO EMPHYSEMA S27-1	SER M 405 68 VEARS 44 VEAR 1973 R6 64	ele Fiaco	200.0	200	250 50	1.759	\$.84 .66	3.28	4.26 22.96
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATN NEO CODE NO.	6-182 # SMP WER NA COLORADD # ID CAMCER 186.0	SEX MASE SO VEARS NA VEAR 1971	EIRE FAMBH BIR	1470.0	1969 1866 25 200	250 250 10 50	.03A .122 .007 0.000	chsf.a ensf.a -04 3-32	6,5g 400f0 400f0	3.86
EASE NO. DECUPATION RESIDENT STATE CAUSE OF DEATM MED COOK NO.	6-190 PROFESSOR NA COLORADO MYOCARDIAL BMF 428-1	See m age 66 years na year 1971 ng na	E TYPE L THPH E TYPE E	1210.0 1279.0 10.0 326.0 160.0	1000 2000 25 166 200	250 250 10 10	1.005 .122 .006 .055 .016	4.02 .09 6mg/- .53	3.32 .36 em. 1.72 eme.	5.65 .36 .52
CASE MO. OCCUPATION RESIDENT STATE CAUSE OF DEATM MES CODE MO.	6-166 MA NA COLOMADO PULMON EMROL 491-9	SER M AGT YEARS MA YEAR 2072 RG MA	LUNG #1DNCY #18 VERTEBRAE	1700.6 170.0 60.0 210.0	3000 100 200 200	250 18 50 50	.029 .056 .904 .816	anafa snafa *20 anafa	<pre>4mbf = 4mbf = 4mbf</pre>	,99
CASE NO. SCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	6-188 PHYSICIST MA COLORADD CARRY MONTID 962-7	Ser m age 40 vears ha vear 1971 kg ma	HIB TONE A TONE A TINE A	1273.6 970.0 192.0 50.0	1006 1006 1006	250 250 10 30	.163 .635 .848 .004	.65 2,54 .48 qmt_0	4MEF. 3.05 5.95 0.21	2.67 2.67 1.19
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH NEO CODE NO.	S-110 MARTER MA COLONADO COLON CANCER 153,3	SER M AGE 83 VEARS NA VEAR 1971 RG NA	LIVER LUMG RIDNEY RIB VERTEBRAE	1861.0 915.0 117.0 50.0 225.0	1000 1000 100 200 200	100 250 10 50 50	.421 .003 .049 .007	4.21 .37 .49 cunt.•	2.26 .06 6.19 eunte	
EASE NO. OCCUPATION PESIZENT STATE CAUSE OF DEATM MED CODE NO.	6-112 NA NA COLORADO THYRD CANCER 194.8	SER F AGE 75 VEARS NA VEAR 1071 KG NA	LIVER LUNG MIB	130°.0 559.0 50	200 2000	250 250 50	.434 .013 .012	1.74 .37 «MRL»	1+33 -67 emajo	2.25 .67
CASE NO. OCCUPATION RESIDENT. STATE CAUSE OF DEATH MEN CODE NO.	6-114 NA VA COLOMADO EMPHYSEMA 434-7	SEE MAGE OS VEARS NA	HIB HIDNEY FINES FINES	1290.0 143'.0 172.0 127.6	1000 1000 100 200	250 250 10 50	.426 * .257 .949 .019	1,60 3,03 ,49 400L*	1.40 .71 2.85 «MRL4	2.38 .71 .65
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATM MED CODE NO.	A-116 NA VA COLORADO FULM IMPARCT 485.0	SET F AGE 98 VEARS NA VEAR 1971 RG NA	LIVER LUNG #IDNEY VERTEBRAE RIN	990.6 3831.9 101.0 104.0 52.0	1000 100 200 200 200	250 250 10 50 50	.407 .154 .869 .804 .809	3.63 .68 .49 emple		
CASE NO. OCCUPATION RESIDENT SMATE CAUSE OF DEATH MEN EDGE NO.	6-118 EUSTODIAN VA COLOMADO COR THROMADS 420-1	SEN M AGE ST VEARS NA VEAR 1971 KG NA	BIR KIUMEA FINE FIAED	1062.8 1070.0 141.4 233.0	1000 1000 100 200	250 250 10 50	.748 -353 -069 0.000	448 449 449 849	1.78 .56 3.61 emble	3.93 .54 2-74
PASK LO.	4,2124	SE1 M	LIVES	1276.0	1000	250	.747	,49	.77	1-35

			7155HE	451 25m1 25m2 46mm)		400) 414712 400)	ACTIVITY PCR VC_ aNAL (DIS/MIN)	ICIS/PINI	#f# #5	40110177 e:a 47/40470 c2344 c215/+191
CASE 43. OCCUPATION PRSITENT STATE CAUSE OF DEATH MEN CODE NO.	6-17- .4 NA Ch_ORACU C1=2m0515 541-2	EET F AGE AS VEARS NA VEAR 1871 NG NA	ETVER LUNG FILMEY VERTERRAE	564.3 1074.6 127.0 163.0	100 100 100 100 100	250 250 10 100	.023 .045 .060	**************************************	ewn.* •19 4.62 1•35	.:* 1.** 4.65
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	6-326 Na Na Chi Minadd Brig Usanniga 69369	SER M AGE 44 TEAPS NA VEAR 1971 RG MA	LIVER LUNG RICHEY BONAD	1672.0 2512.0 194.0 47.0	1000 1000 100	10 16 10	.560 .290 .024 .043	\$6,00 27,00 4061 403	\$2.24 33,54 406_4 9,15	\$8,81 11,54 .37
EASE NO. DECUPATION DESTRENT STATE CAUSE OF DEATH DEW CODE NO.	6-128 IND MERCE NA COLORADO FRACT SKULL 891-8	ger m agf 40 vears ma vear 1971 kg ma	LIVER LUNG RIDNEY VERTEBRAE GOMAD	\$04.0 1534.0 104.0 174.0 5040	1009 1009 100 209 100	10 250 10 100 10	.610 .002 .046 .073	61.00 .33 .40 .15	00.92 .21 2.66 .04	191.17 .21 .62 5.87 -38
CASE NO. DECUPATION DESIDENT STATE CAUSE OF DEATH MED CODE NO.	6-138 NA NA COLORADO FRACT BRULL PRI-0	SET MAGE 46 TEAMS NA TEAM 1971 NG NA	E TVER E TONFY FONA E TONFY E TVER E	227.6 1137.9 347.6 149.6 72.6	1000 1000 100 200 100	16 250 10 100	.150 .071 .0339 .091 .126	15.00 .24 <wq.0 .18</wq.0 	6.76 .25 emple 1.38 \$6.44	11.47 .25 9.19
EASE WITH THE STATE CAUSE OF DEATH MEW CODE NO.	6-132 Na Na Na Colorado Skull Fract 463-6	SET M AGE 89 TEARS NA VEAR 1971 NA	LIVER LUNG KIDNEY SONAD	1372.6 929.0 237.0 29.0	1006 1000 100	10 250 10 10	.918 .105 .040 .048	•1.08 .74 .49	96.33 1.69 20.09	112.76 .90 .51
CASE NO. SCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	6-134 MOUSEWIFE NA COLORADO MEAR: DESEAS 420.0	SER F AGF SA VEARS NA VEAR 1971 KG NA	«IDHEA FANDH FINE FIAEW	752.0 910 2.2 113.0	1000 1000 25 100	250 250 10 20	•294 •113 •030 •930	1.18 .05 .07	1.57 .50 34.00 7.00	2.68 .50 .34 2.12
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	6-33r Na Na COLÍN ADO Na Na	SET F AGE ST YEARS NA YEAR 1971 NG NA	LUNG LYMPM HIDNEY VERTEBRAE	1101.6 4.8 99.9 130.9	1000 25 100 500	250 10 10 10	.338 .180 8.000 .000	1.35 .45 «MRL» .34	1.23 93.75 400,0 2.54	1.23 .94 37.76
CASE MO. BCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE MO.	6-13I NA NA COLORADO PAFIMONIA 583-6	SEX MA AGE 48 YEARS MA YEAR 1971 K6 MA	SONTO FINEA FINEA FINEA FINEA FINEA FINEA FINEB	791.0 1110.0 227.0 253.0 253.0	1000 1000 100 500	250 250 10 100 10	•294 •257 •955 •233 •950	.42 1.93 .55 1.16	1-03 -92 2-42 4-57 25-00	1.75 .92 .73 31.98 1.08
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH NEO CODE NO.	6-349 NA NA COLOFADO SUICIDE E979.	SET F AGE 79 VEARS NA VEAR 1971 RG MA	LIVER LUNG KIDNEY VERTENRAE	\$85.0 377.0 86.0 73.0	500 100 100	250 250 10 100	•266 •138 •076 •012	1.04 .33 .70 CMRL*	4mbf- 9-9- 1-39 1-85	3.09 1.36 2.65
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH NEW CODE NO.	6-14; NA NA COLDFADO SUN SUD MEAD ESTS.	SEN M AGE 21 VEARS MA VEAR 1971 KG MA	LIVER LUMS LYMPN RIDNEY VENTEBRAE GOMAD	\$34.0 1046.0 1.6 76.0 105.0	1000 1000 25 100 200	250 250 10 10 100	.468 .083 .169 .069 .041	1.87 .33 .42 .69 .00 MRL	3-51 -32 262-50 -75 -77 	5.46 .32 2.62 2.45 5.42
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH NEW COOE NO.	0-1-4 DENTIST NA COLOMADO NA MA	SET NA AGE 84 VEARS NA VEAR 1971 RS NA	GOMAD FIAES	1514.0 1037.0 72.0	1000 1000 100	250 250 10	3-27; •118 •100	5.08 .47 1.00	3+35 •46 13-69	5.69 .48 .38
GASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	6-246 NA . COLOMADO C'N PIO PEAD ES29.9	\$Ex & AGC 61 VEARS NA VEAR 1971	LIVER LUNG LYMPH VERTERRE GCNAT	1060.0 1650.0 4.7 12:.0 37.0	2000 2000 25 200 100	250 250 10 100 100	.568 •137 •005 •132 •551	2.32 .95 .21 .26 .51	3-25 -33 -5-21 2-11 13-75	2.12 .33 .45 1.75 .55

			7185UE	o[] o[]6m] samo _l e (6#4m)	VOLUME OF SAMPLE (CC)	SAMPLE	ACTIVITY PER WOL AMAL IDIS/WIM)	PER DREAM	ACTIVITY PER RB 1015/MINI	ACTIVITY PER STAMDARD ORGAN (DIS/MIN)
6486 MD. OCCUPATION .	6-148 44	SET #	LUNG	1845.0	1000	250	-101	•40 •17	·33 33·33	.33
		462 34	LYMPH	4.1	25	10	-068		CHELO	• **
RESIDENT STATE	MA COLORADO	YEARS NA	KIDNEY	£35.0	200	10	673 .067	enal*	1.35	9.47
CAUSE OF DEATH	PHEUMONIA	TEAR 1971	VEHTEBRAE BONAD	*1.		100	.644	.44	12.94	.52
MED CADE NO.	501.0	46 MA	-	34.4	100		••••	444	18174	• ***
CASE NO.	4-15e	SE1 M	LUM6	1370.0	1000	250	.434	1.74	1.27	1.27
OCCUPATION	NA	AGE SS	LYMPH	1.5	25	10	.157	.39	196.25	1.96
RESIDENT	MA	VEARS NA	KIDNEY	801.0	100	10	-961	.41	2.17	.65
STATE	COLORADO		VERTEBRAE	1.505	500		.094	.48	1.70	11.91
CAUSE OF DEATH	MA	YEAR 1971	GONAD	35.0	100	100 10	-104	1.04	29.11	1.19
MET CARE NO.	MA.	ES MA			• • •	- '				

	e a-la partire bebelli E a-la partire						TETAL ESUNTS	ektrint Ffs	OVERT 6747	:57::5
	TE THE THE TEST OF THE TEST OF		7155UE	62:3+7 62:3+7 84**-E	¥24¢™€ S#	STATE SAMPLE ANALYZED (CC)	attivity PED VOL Shal (DIS/PIN)	#271V179 PIR 1767N #E45#1 #618/#3N)	ACTIVITY PES TO	#271+174 #27 #73-72*3 #015/+181
CASE AC. CCCUPATION RESIDENT STATE CAUSE OF BEATH	1- 5- Harrivist Lis alamis Age bizicc garriac	7E74 1424 12 46 12 46	LUN3 LYMFH	354.6	2 c o 2 5	10	.74¢ 1,220	14.80	120.64	41.61
MEN COSE NO. EASE NO. BEGSIDENT BESIDENT BEATINE BEAUSE OF BEATH PEN COOK NO.	434-1 3- 58 PAC-INIST LES ALANCS BL- PERICC CAROLAC 420-1	RG 76 SER M AGE BO VEIRS 68 VEIRS 68 NA	LIVER LUNG LYUPH KIT/FM VERTEBRAE RIB BPLEEN	1320.0 1620.0 220.0 220.0 180.0 163.0 363.0	1556 155 155 155 164 356 268	100 100 100 100 100	1.030 1.370 .040 .020 6.000	16,3g 13.7n .c4 .qq. .e.ac. .e.ac. .e.ac.	7,87 13,43 4,62 4,62 4,62 4,63 4,63 4,63 4,63 4,63 4,63 4,63 4,63	
CASE NO. OCCUPATION DESIDENT STATE EAUSE OF DEATH MEM CODE AD.	1- 68 MATHTICIAN LCS ÁLAMOS NEW MEXÍCO BAC ENDOCARDITIS 438-8	SEX M AGE 36 YEARS 87 YEAR 1960 MG NA	giDrEA FineM Fine Fine	2152.9 713.9 22.5 308.0	1600 3000 25 256	50 50 10 10	•070 •:020 •:000 •010	degree	.68 «)
CASE NO. OCCUPATION MESIDENT STATE CAUSE OF DEATH MEM CODE AG.	1- T4 MACHINIST LCS ALAMOS ME MEXICC CIRCHOSIS 156-0	SCR M ASE 48 YCARS 07 YCAR 1060 R6 HA	KICHEA FANDH FINES	3354.0 3369.0 2.0 287.0	1660 1660 25. 100	50 50 10 10	5658 5630 5630 5630 5638	.48 4.89 .87 apr.5	2.90 37.30 «MRL«	2,48 2,48 .37
EASE NO. DECUPATION MESIDENT STATE CAUSE OF DEATH MEW CODE NO.	1- 80 ACCOUNTANT LOS ALAMOS AGU MERICO MULTIPLE PYELOMA 203-0	SE1 M AGE 34 7EARS 18 7EARS 1869 R6 83	KIDPĒĀ FĀNĒM FĪĀĒK	1728.0 736.0 347.0	160	1.	-040 -210 -020 2,870	.60 4.20 4.81 28.70	.47 5.71 4m) 62,71	.79 5.71 24,61
CASE NO. OCCUPATION DESICENT STATE CAUSE OF DEATH MEM CODE NO.	3- 94 LCS ALAMOS REW MEXICO CORCNARY COCLUSI 420-1	SER F AGE 46 YEARS 11 YEAR 1968 H6 MA	LIVER LUNG LYMPH MIDNEY	1529.0 592.0 14.0 881.6	100 100 100 100	50 90 10 36	1.200 .260 .300 6.000	24.00 17.20 1.95 4.86		, 1.31
CASE NO. OCCUPATION PESIDENT STATE CAUSE OF DEATM MEW CODE NO.	S-126 TECPHICIAN LCS ALAMOS NEW MERICC SRULL FRACTURE 483-8	85% M 462 40 7648 63 7648 7651 MA	EIDYLA Fanin Fani	1745.0 1043.0 id.0 286.0	700 700 1000	50 50 10	• 676 • 979 • 688	1.48 4.85 4.864	.60 3.34 Surg. Surg.	. 1.34
CASE NO. BEELPATION "RESIDENT STATE CAUSE OF BEATH MEM CODE NO.	1-j28	SER M ASE 31 VEARS 66 VEAR 1461 P6 71	#10rga Farbh Fing Fiagu	1776.6 6c2.4 15.0 307.0	160 3000 1000	50 90 10	214e 230 230 250	2.00 4.60 .15 	1,58 5,74 30,88 4RL	5.74 .10
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEW COOL NO.	1-126 PACHINIST LCS ALAMOS ARE MEXICE LUNG CANCER 163-6	\$63 M 466 \$8 7648 11 7648 1463 Ma	KIDHÉA FANN FINS FIASS	2134.0 1119.0 20.0 329.0	3649 3000 50	. 50 16 19	9140 9290 940 940	2.60 5.89 .30 ₩AL	1.31 9,20 15.00 *pRL	5,21
CASE NO. OCCUPATION DESIDENT STATE CAUSE OF DEATH MEW CODE AND	1-132 BRAFTSMAN LOS ALAMOS BEW MEXICO CONCRAFY CCC 428-1	\$E3 M AGE 32 YEARS 05 YEAR 1061 NO MA	EIDUEA FANG FANG FIAES	2179.0 021.0 010,0	1000	\$0 \$0 }\$.960 .070 9.000 6.070	1.20 1.00 40 PL	• <nar< td=""><td>1.99</td></nar<>	1.99
CASE NO. OCCLPATION OCSIDENT STATE CAUSE OF DEATH MEW CODE NO.	7-136 TECHNICIAN LCS ALAMOS AEM MEZICC CECHARY CEC 426-1	8E1 M AGE 84 YEARS 11 YEAP 1961 MG MA	EIDYEA FARDN FINE FIAEB	1741.6 -98.8 14.8 282.6	100 30 30	30 30 10 10	2150 -110 -100 -100 -100 -100	3.00 8.20 4.p. 1,?;	يا(بها و	2,44
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF CEATH MEM CODE NO.	1-140 cberk LCS alamos NSW MERICO P. 1-15ATCTION Acc. 3	SER M ASE 30 YEARS 14 YEAR 1941 KG MA	K10,EA FANDH FINE FIAEB	2316.8 921.0 9.0 515.0	1000 1000 50 100	\$0 50 10	:090 :600 :120 :120	1.00	66.47	13.0

			TISSUE	WET WEIGHT LINFLE LIFE-1	EF	AOFANE AOFANE	46137317 PER VOL 1991 (5157419)	ACTSVITY AC PER CEGAN P	ER KO	METIVITY PER BTANNAPD CPS_N (DIS/MIN)
CISE NO. OCCUPATION PYSICENT STATE CAUSE OF BEATH NEW COOC AG.	See de la contraction de la métale de la métale de la contraction	862 P AGE 32 YEARS 16 YEAR 1961 RB MA	LIVER LUNG LYMPH - KIDNEY	1674.0 3122.0 4.0 202.0	1000 1000 50 100	50 50 16 19	.140 .440 .440 .420	3.88 .88 2.30 4.8L	8.01 .71 303.33 eRL*	3.41 .71 3.63
CASE NO. CCCLPATION SCSIDENT STATE CAUSE OF REATM NEW COOR AD.	428-1 THECHEO EMBOLISM FOR MEXICE TOS ALAMOS EN 14 EN 14 EN 14	\$23 M 465 43 7548 18 7548 1961 86 Ma	LZVER LUNG LYMPN RIDNEY	1550.0 #15.0 22.0 25.0	300 300	30 30 10	2468 •845 2814 2043	4.49 4.70 4.70	6.19 32.92 4#RL6 1.71	10.53 32.62 ,51
CASE NO. OCCLPATION MESSORM STATE CAUSE OF GEATH MEW CODE NO.	8- 20 REUSEUTFE LOS ALAPOS REU MEÑICC GANCES OF RECTUM 194-0	SER F AGE 47 YEARS 2 YEAR 1961 P6 MA	KIDKÉA FANDR FANG FARK	2020.0 910.0 0.0 255-0	1000 1000 50	50 50 10 20	.266 .946 8.899 6-888	8.20 .92 .92 .921.9	1,04 3,16 <urt <urt< td=""><td>3.33</td></urt<></urt 	3.33
EASE NO. OCCUPATION PERIDENT STATE CAUSE OF BEATM MEW CODE NO.	das:0 des effects for effice sono? sonoo. sono	\$21 M 465 48 7548 11 7548 1968 M6 M6	AEUJEBUTE Findh Findh Find Find Findu	2025.0 064.0 13.4 244.0 305.0	1000 1000 50 100	50 10 10	.076 .020 .020 .000 .000	3.49 .69 .49 MLa ap RLa	040 040 040 040 040 040 040	
CASE NO. CCCLPATION PESIDENT STATE CAUSE OF DEATH ME CODE NO.	8- 78 EL-PECM TE LCS ALAMOS MEM MEXICE CAPCIAC 426-1	SE1 N 462 G4 76383 S5 7648 1942 86 Ma	AEUJEHUVE Klupea Fambn Fiaeu	2768.9 285.8 251.6	-198 -198 5000	\$6 }} 10		***** ***** ******	.g7 2.81 4.81	,96 ,96
CASE NO. OCCLPATION BESIDENT STATE CAUSE OF DEATM MEW CODE NO.	2- 94 MICHOSCOPY LCS ALGMOS NOW METICS CARDIAG ADA-8	.52 m 45	EZOMEY FIND FINE FINER	25/-0 8:0 8:0 975.8	1000 1500 80 100	50 50 10 10	.180 .281 8.000 -830	3.60 9.60 40 ÅL •36	3.62 6.79 4mRL4 3.20	6,15 6,79 -36
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF BEATH MEW COOR NO.	20 98 PHYSICIST LOS ALANOS NEW MERIOC CAMCER NA	861 M 462 80 YEARS 10 VEAR 1962 M	LUMB LYMPH RIONEY YERIEBRAE	605.0 14.0 179.0 31.0	1000 90 100 250	\$0 10 10 28	-150 -160 -020 -010	3.00 -80 	4.96 87.14 ⁴ mple «Mple	4.96 .87
CASE NO. CCCUPATION PESIDENT STATE CAUSE OF DEATH MEW CODE NO.	2-124 RESIDENT LCS ALAMOS Agu MERICC CIRRACSIS 581-1	SCA M 40E 42 7EARS 67 7EAR 1962 86 76	FIAEA FINE FINEA KIDVEA	2395.0 3580.0 11.0 368.0 300°0	1996 1800 50 256 568	25 25 10 10 10	.082 .004 .001 .043	3.28 5.84 3.04 1.52 32*15	1.37 3.70 95.00 4.14 107-17	2.33 3.70 .95 1.24 750-17
CASE NO. DECUPATION RESIDENT STATE CAUSE OF BEATM NEW CODE NO.	E-132 Bepataman LCS alamos REW REICC PAFLMONIA 496-9	SER M AGE 20 VEARS 10 VEAR 1902 RG MA	· KIDŲĒĀ FAPU PIOŲĒĀ	\$300.0 1650.0 16.0 478.0	1909 1600 50 250	50 10 10	0.000 0.000 0.000 0.000	ep Rijo ep Rijo ep Rijo ep Rijo	dwRie dwRie dwRie	•
CASE NO. CCCURATION RESIDENT STATE CAUSE OF BEATH PEW CODE NO:	2-ja2 Elect Tech LCS Alambs New Hericc PLL EFECLISM 469:0	\$22 M AGE 47 YEARS 18 YEAR 1943 RG MA	LIVER LUNG LYMPH KIDNEY VERTEBRAE	2005.0 763.0 21.0 365.0 358.0	1668 1660 58 192 508	\$0 10 10	0.100 0.00 0.00 0.00 0.00	49 % 0 40 % 0 40 % 0 40 % 0 40 % 0	ewele ewele ewele ewele	
CASE NO. CCCUPATION PESTENT STATE CAUSE OF DEATM HEW CCCE NO.	434,8	867 M AGE 45 VELPS 03 VEAR 1943 RG NA	AEBJEBBVE KIDYLA FARB FRAD FINEB	1806-8 1726.8 24.6 376-0 384.8	1112 1678 25 168 506	50 50 10 10	0:00 0:00 0:00 0:00	ବ୍ଧ ମିଧି ଓ ସ୍ଥାନୀ ଓ ଜ ସ୍ଥାନିକ ସ୍ଥାନିକ ସ୍ଥାନିକ	4 M R L 4 4 M R L 4 4 M R L 4 4 M R L 4 4 M R L 4	
CASE NO. CCCUPATION STRINGENT STATE CAUSE OF BEATH HEN COOL NO.	3- 20 Certiquan LES ALA-CS NEW MERICO CAUCOR 145.0	9CF N 47 7EARS 10 7EAR 1965 80 81	AELIEGETE. FINEM FINEM FINEM	27-5-0 710-0 18-0 182-0 120-0	1000 1000 100 100 280	25 5:: 10 10 10	0:010 20:8 10:24 10:24	e D 6 - 76 - 477 6 - 417 6 - 417 6	445,4 445,4 445,4	2,94

		7:5505	(884) 87-27 81.2-1	46.554 64 54456 1661	100) 241=12 44176=2	POTIVITY VOL ANAL COLORNIANI	FIR CODAN	114 43	##77777 ##7 \$* \\n_1F\$ (#714 (\$)\$/#1N3
2- 22 850 PTD FF0 65 ALAPTS 65 MERICE 65 MERICE 65 TRECHR 421-3	#27 W ASE #1 TEARS 10 TEAR 1966 NG MA	LIVE* L.\3 L\C\E ETC\E VERTERRAE	1155.0 1751.0 0.3 219.0 150.0	100 100 100 100	25 5:: 10 10	.109 .253 8.230 .626 .805	4.36 1.73 1.218 4.674 4.674	3,79 1,29 {us_0 eu0[0 eu0[0	\$.45 1.21
3- 44 WPC-1237 LCS ALAMOS AGW MERIGG CANCER 19328	SER M AGE ST YEARS 12 YEAR 1947 RG 7g	EIDYEA Fara Fara Fires	1673.9 1432.0 2.0 2+2.0	100 100 100 100 100	25 25 19 14	0.000 0.000 0.000	40 Rio 9,64 4,510 40 Pio	ensi	2,54
3- 50 Prysicist LCS ALAUS NEW PERICE CORNARY CCC 426-1	362 # 366 41 764PS 14 764P 1947 86 71	LIVER LUNG LUNG LUNG LUNG LUNG LUNG LUNG LUNG	3720.6 1130.6 17.0 330.0 60.0	160 190 40 160 1600	25 25 10 10 10	.025 ,127 .62a ,194 .441	40 RL 0 8 .08 40 RL 0 2 .94 31 - 62 1 - 48	6,00 4,00 5,00 183,75 4,35	4,50 3,76 1205.25 1,31
3- 70 TECTMICIAN LCS ALAMOS NEW PEXICO CONCUMAY CCC	SER M AGE 67 TEARS 21 TEAR 2967 R6 MA	LIVER LUNS LYMPH RIDNEY VERIERRAE	1720.0 20.0 20.0 20.0 \$6.0	1606 1003 58 100 100	25 10 10	.256 .103 .616 .017	19.24 4.12 4.2. 4.8.6 4.8.6	4mg/e 4.62 4.67 8.63	19.07
3- 72 CAOTTACER LCS ALAMOS NEW MEXICO CTRANGEIS SOLO	\$52 M 43 434 75 434 76 44 76 44 46 64	LIVER LIVE LIVEV RIDNEY LIVER RENTERRAE	3275.0 1200.0 4.0 343.0	1000 1000 80 100	25 500 10 10	•148 3.420 •624 •913	\$.92 7.64 4.81.0 4.81.0	4.31 6.06 furto eurto 8,40	7.32 6.06 68.23
3- 84 LCS ALAWOS REW MEXICO COPENSAY CCC 420,1	352 F AGE 41 YEARS 21 YEAR 1968 RG NA	AEBİEBUYE Find Elag Fing	1381.0 1955.6 295.0 7.8 32.6	1000 1000 100 100	25 25 10 10 10	0.000 .151 .042 .032 .002	dPRL0 6.04 	eunio 5,73 3.45 22.46 4unio	5.72 .49 .23
3- Po PPO-PFINTE LCS ALAMOS NEW MEXICO DIABETES PELL Rose	SC1 F 465 34 7548 63 7548 1948	AEULEBUTE FANDM EINEA FINEU FINEU	1710.0 920.0 8.0 425.0 40.8	1690 1600 89 109	16 16 25 25	•839 •691 •118 •603 •62g	1.56 3.64 .59 4.81 4.81	.91 3,94 118,60 duti.0 eML.0	1.55 3.46 1.18
3- 86 FIREMAN LCS ALAMOS MEW MERICC CARCIEC 426,1	SEX M AGE 43 VELUE 17 VELUE 1668 ME MA	AESJEBSTE KJOVÉA FAMBA FAMB FJAES	2000.0 1710.0 3.0 350.0 55.0	1000 1000 50 100	25 25 10 10 10	.154 .093 .038 .030 .004	6.16 3.72 .19 .30 .4.8L.	3.08 2.18 23.75 -80 -4MRL*	5.24 2.18 .24 .26
3-108 TECHNICIAN LCS ALAMOS NEW MEXICO PAGLMONIA 493-9	AET VY VETAR 3404 VETAR 7404 VETAR 7404 VETAR VY	AEBJEBBVE KIDVEA FAMBM FAMB	974.0 6.9 250.0 120.0	1805 68 180 250	250 10 10 10	12.34g .83g .336 .871	49.36 1.19 3.36 .18	\$0.09 390.33 13.44 1.48	54.89 1.94 4.83 16.35
3-142 EAGINEER LCS ALAWOS NEW METRICC CARCIAC ASREST 433-1	523 AA AGC 48 VEARS 14 YEAR 1969 R6 62	BAUL Lypu Kyacin Sarestrsy	1152.0 4.6 356.6 330.0	1000 50 100 250	250 10 10 100	4.406 •189 •016 •162	27.69 .94 .496.0 .35	23.46 234.25 «µRL» 2.73	23,96 2,36 19,12
S- 24 Prysicist LCS ALMOS BEWREICS PEART ATTACK 428-1	\$E3 N 46E 43 7E3AS 88 7E4A 1449 86 78	Ling Fanda Ridp ^e A AELEBUTE AELEBUTE	432.0 4.8 350.0 96.6	1000 50 100 100	250 10 10 50	.060 .370 1.173 .165	.24 1.85 21,73 .29	- 34 442,50 33,51 3,82	36.4 4.62 10.05 22.56
S+ 44 PICROSPIST LCS ELAUIS ALA FIAICE MICATORAL INF 426-1	868	FINE	1010.	3600	; ;;	1:55 A A I I	3.91 4.27	2.47 3,45	2.87 6.72
	ACC POST SECULOS ALLANDS ACCOMENTS TO SECULOS ALLANDS ACCOMENTS TO SECULOS ALLANDS ACCOMENTS CCC AZCOL 3- 38 PHYSICIST LCS ALLANDS ACCOMENTS CCC AZCOL 3- 78 TECNNICIAN LCS ALLANDS ACCOMENTS CCC AZCOL 3- 72 CAPETAKER LCS ALLANDS ACCOMENTS CCC AZCOL 3- 72 CAPETAKER LCS ALLANDS ACCOMENTS CCC AZCOL 3- 72 CAPETAKER LCS ALLANDS ACCOMENTS CCC COPCINATY CCC AZCOL 3- 86 PAGETICA 3- 86 PIREMAN LCS ALLANDS ACCOMENTS CCC AZCOL 3- 86 PIREMAN LCS ALLANDS ACCOMENTS		### ### ##############################	### ##################################	### ##################################	### ### ### #### #####################			

			715505	(Gpre) gr"E asiced Aid	400; 64 64 64 66,646	4010FE 8/FF/E 4/17/200	#C*19177 FEE VCL 4:41 (215/F14)	#5719174 # #1777 #5014 #1777 #	FER RA	ACTIVITY STA STANAFD CTOLN tHEMSEGD
CASE WB. SCENPATION PEDIOENT STATE CAUSE OF BEATH MEW COSE BOO.	Eddarg gra-os agrad rea africe for stands buariciss	862 M AGE 49 Years 45 Year 1978 FO NA	Liver Lung Lyng _H Kijágy Verterrae	1780.0 452.0 4.0 265.0 100.0	800 300 25 850 100	250 250 10 10	3.000 8.709 .074 .039	11:08 -18 -18 -18	4.79 17.48 46.25 3.49 4pg_4	7,09 17,48 -46 1,19
CASE NO. CCCUPATION PESIDENT STATE CAUSE OF CEATH DEW CODE NO.	So 76 Lacrer Les alaus Men mexice Perile Frail 503.9	862 M 866 06 76488 NA 7648 1978 88 60	AÈUIEBUTE EANN FANG FASE FIAEU	1724.8 1043.8 20.0 484.8	500 -500 -25 100 200	250 10 10	.074 30.940 .392 0.000	4.0g gi.qg .9g q.pq.e i.46	2,78 26,48 49,00 4904 35,54	4.73 20.98 20.89
CASE NO. OCCUPATION OESINENT STATE CAUSE OF BEATH MEN CODE NO.	S- 80 PRO FCRCE LCS ALAVOS NEW MEXICO BAN MEART ASS.1	SE2 M ABE 98 VEARS NA VEAR 1978 R6 93	LIVER LUVE LVVEY RIJVEY VERTEBRAE	2013.0 577.0 0.0 723.1	300 25 101	10 299 10 100	.249 4.489 .194 .914 .987	13.45 8.98 .49 .47	6,63 15.56 61.25 4081 1,39	11.36 15.56 .61 9.74
CASE NO. DECEPATION PESIDENT STATE CAUSE OF DEATM MEN CODE NO.	S-100 AEC PR FRE LCS ALAWOS NEW PEXICE MEAST ATTACK 420-1	362 M 366 93 76483 ha 7648 1978 86 Ma	LIVER LYDPH RIDAFY VERTEBRAE	2034.0 4.0 240.0	200 100 50	50 19 19	.501 .041 .035	\$.01 .10 <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	25.42 4001 .71	4.15 .26 4.95
CASE NO. ESCLPATION PESICENT STATE CAUSE OF DEATM PEW CODE NO.	get-d yen mexice yen mexice yen mexice yen yen yen yen yen yen yen ye	SER M AGE 69 78A83 14 78A8 1970 86 76	LIVER LUNG RIDDEY VERTEBRAE	1803.0 1274.0 304.8 50.0	200 100 100	100 250 10 100	.444 .196 .917 .963	2.22 .70 .00,0 .13	2.19 .64 <ur>4.25</ur>	2.03 .64 15.75
CASE NO. CCCLPATION PESIDENT STATE CAUSE OF BEATH PEW CODE NO.	S-118 TECHNICIAL LCS ALAMOS REW MERICC CANCER 100-9	SE3 F A05 92 VEARS 20 VEAR 1970 RG 62	FINES FANDA FOVEA FOVEA FOVEA FOVE FOVE FOVE FOVE FOVE FOVE FOVE FOVE	263.0	1000 1000 100 200	100 100 10 10	.014 .074 .021 .005 .120	4.87 .74 e-RL- 4-RL- 2.55	3.28 4.01 5.04 5.08	5,48 1,06 142,22
CASE MO. DECEMPATION PESIDENT STATE CAUSE OF REATH MED CODE MOST	S-155 CHENIST LCS ALAMOS MEART ATTACK 426"1	SER M AOE 41 YEARS 11 YEAR 1971 KG 74	Liver Lumb Ridney Verterrae	1090.0 1300.0 345.0 30.0	100 100 100 100	250 250 10 100	1.009 2.344 .60g 0.009	4.34 9.38 4,8,0 4,8,0	2,59 6,89 ⁴ µRL ⁴	4,38
EASE NO. OCC.PATION PESIDENT STATE CAUSE OF DEATM MEW CODE NO.	7- 4 ACCATAT LCS ALAMOS NEW MERICO CARCIACMA 109.0	8E1 M AGE 74 TEARS 24 YEAR 1971 AB MA	LTVER LVMP LVMPM RIDNEY VERTERRAE	\$90.0 \$90.0 4.7 200.0 100.0	1000 1000 25 100 250	250 250 10 10	.496 .705 1.625 8.606 .122	1.98 2.82 2.54 2.54	.70 4.70 545.21 Guni 3.05	1.20 4.70 5.45 21.35
EASE NO. OCCUPATION RESIDENT STATE CAUSE OF BRAYN MEM CODE AGE	7- G PRO FACE LCS ALAMOS AIM WEXICC CARCINOMA 200-8	SE2 M AGE S2 YEARS 14 YEAR 39 B R8 98	EIB KIDVEA FANDM FIAEB	1800.0 1320.0 2.4 368.0 103.0	1800 1000 25 100 250	250 250 250 100	1.181 .100 .004 0.000 .137	4.72 .43 4,814 4,814 ,34	2.62 -33 -4#7 -4#7 -3,33	23,28

TABLE ANY EAST EMPLOYEES RECOR TO SAVE MOOF POTENTIAL EXPOSURE TO PLETONIUM

OCORE O MENIMUM REPORTENS LEVEL O 8193 C/W PER SAUFUE VOL ANALYZED - BESED ON TUTAL COUNTSORKGOAND RECOVERY STATISTICS									37:15	
	•		TISSUE	#ET #E19-T \$245E (6444)	ALTINE	90155E	ACTIVITY FER VCL ANAL (DIS/MIN)	#5714174 #58 65314 #535- #535-143	ACTIVITY Fig. Rg	#2": 1"" ### \$7,4-1"; \$7254
CASE NO. OCCUPATION BESIDENT STATE CAUSE OF CEATH MEW CODE AM.	10 30 TECPNICIAN LCS ALAPES NEW PERICE TRILLY TECHNICIAN TOTAL	SEX M AGE 38 VEARS 31 VEAR 1950 RG TS	LIVER LIVER RICHTERRAS RICHTERRAS RIS MEART RUSCLE SPIEEN STER-UM	1930.0 #55.0 275.0 185.0 21.2 40.0 194.5 112.0	1000 1000 1000 1000 1000 1000 1000 100	100 132 10 10 10 10 10	1918-117 836-297 45-161 1-212 43-666 2-62 2-240 -158 2-666 13-646	19:01:17 83:01:07 40:00 17:00 47:00 20 20 20 20 20 20 20 20 20 20 20 20 2	6236,50 624,53 67.65 67.65 1161,52 1161,52 7,02 1163,52	1015/-[h] 18722.15 6734.76 671.76 16.26 16.25.32 6125.25 18.57 227.56 27,10 7824.57
CASE NO. OCCUPATION PESIDENT STATE CAUSE OF BEATH NEW CODE AG.	1-150 MacPinist LCS ALAPOS AGW MEXICC CAPCIAC 432-1	SE2 M AGE 81 YEAR 1959 AB MA	#10vEA Fanyw Fineg Fineg	1717.0 1120.9 30.0 332.0	7 0 20 300 1600	100 100 10	3.963 30.535 3.698 -276	31.63 18.35 18.45 2.76	23.08 272.63 5)2,50 6.31	39.24 272.63 5.12 2.49
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH MEW CODE NO.	2- 4 MP LABORER LCS ALANCS NEW MEXICC LUNG CANCER 103.0	SE3 M AGE 60 YEARS 11 YEAR 1961 RG 60	KIDPEA FAND FIASU FIASU	1375.0 1300.0 5.0 207.0	750 20 1800 1880	100 100 10	947.209 342.400 64.176 1.409	\$972.00 3429.80 320.49 14.09	4343.27 2521.91 64178.60 50.00	7383.56 852:.91 641.78 15.00
EASE NO. OCCUPATION PESIDENT STATE CAUSE OF DEATH MEN CODE NO.	2- 36 Mp #0hitor LCS ALAMOS Mgw mericc Carciac 496.1	SEX 46 AGE 46 YEARS 13 YEAR 1962 M6 62	FIACE FARM MIJUPEA FEBUSE FEBU	1615.0 677.0 12.0 127.0 14.0	1000 1000 100	100 100 100 100 100	299.926 \$78.638 362.159 .097 3.715	2909.24 \$780.30 1014.75 8.97 8.57	2066.27 8536.11 150695.83 70.43 612.50	en72.65 es26.11 1500.06 21.10 e267.50
CASE NO. OCCUPATION PESIDENT STATE CAUSE OF BEATM MEM CODE NO.	2- 50 PLUPRER LCS ALANDS REW MEXICO COCUARY PEN 420,1	SET H AGE -39 YEARS 11 YEAR 1962 NA	LIVER LUNG LYMPH RIDHFT VERTEBRAE	2718.0 1160.0 9.0 323.0 207.0	1000 1600 50 100 210	100 100 10 10	3-617 6-427 -641 -454 -911	36.17 64.27 4.20 4.54 4.84	21.05 55.41 641.00 44.06 4881	35.79 85.41 8.41 4.22
CASE NO. SCCUPATION, RESIDENT STATE CAUSE OF REATH MEN CODE NO.	2- 44 CARPENTER LCS ALANDS MEW MERICE CARPIAC 420.1	AET H AET 1465 AET 1465 BET H	Fires Fambi Miovea Messesses Aresiesses	3354.9 809.0 12.9 255.0 267.8	258 100 100 100	100 100 10 10	1.385 2.371 .500 0.006 .042	13.65 23.71 2.56 446.	6.29 26.31 268.33 448L-	16.34 29.31 2.00 44.01
CASE NO. SCCUPATION PESIDENT STATE CAUSE OF DEATH NEW COPE NO.	2- 48 Enginger LCS alamos New Merico Carciac 420,1	SEX M AGE 42 YEARS 14 YEAR 1962 RO MA	LIVER LUNG LYNPH RIGHEY VERTEBRAE	1606.g 1057.0 7.0 202.0 200.6	1000 1000 100 100	100 100 . 10 10	1.914 .949 .235 .842	10-16 9-60 1-67 -42 -42	0.33 9.07 230.20 1.49 Gumle	16.75 9.67 2.39 .45
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATH ME CODE AN.	2- 88 TRK DP1VER LCS ALIMOS REW MEZICC LIVER CANCER 186-8	\$E# # 46E \$2 7E## 2454 #E## 1454	ETUPET ETUPE ETUPET ETUPET	3713.8 783.8 13.0 284.0	760 20 7000 1000	106 100 10	•022 •746 •307 ••000	8.22 7.90 1.94 \$AL	2.21 11.24 140.85 <#RL#	3.76 11.24 1.49
CASE NO. OCCUPATION OCSINGNY STATF CAUSE OF DEATH MES CODE NO.	2-180 MP POLITOR LCS ALAMES ACM PRICE PERITGRITIS 434.0	SER # 46E 44 YEARS 15 YEAR 2942 NG 77	AEUJEUUT Findo Findo Fineu Fineu	2,000.9 540.9 0.0 263.9 265.0	1000 1000 50 100 400	50 100 10 25 10	•230 •996 •297 •713 •457	4.69 9.99 1.93 2.65 22.95	2.29 18.13 172.50 10.84 64.37	3.75 14.13 1.72 3.25 450.54
CASE MS. OCCLPATION RESIDENT STATE CAUSE OF CEATH MEW. CEDE NO.	e-ijo engineer Les alavos men perice coponary acc arb.1	SER M SEE 47 7EARS 19 7EAR 1962 RE 72	AEUJEBUTE FIANG FI	1768.0 1344.8 24.0 376.0 318.0	1000 1000 50 250 500	100 100 10 10	46.430 84.699 1-419 4.453 3.138	464.30 \$45.99 7.05 111.32 \$4.50	262.61 472.40 203.75 204.51 377.67	446,44 472,89 2,94 86.35 1243,71
GASE MB. GCCUPATION RESIDENT STATE CAUSE OF DEATH MEN CODE NO.	3* 24 Paysicist 16s alamos 5: milico carilai 426.1	862 m 866 89 7648 23 7648 3945 86 77	19464 19464 19464 19464 19464	1005.0 1003.0 16.0 165.0	1000 1000 50 100 50	100 100 10 10	43-192 1.016 -146 -169 1.50	431.92 16:16 .73 1:65 5:52	216.50 10,13 45.42 4.67 1634.23	348.05 10,13 .44 2.65 13322.22

COST ATA COLLAR TON RESIDENT STATE CAUSE OF BEATH MEM CODE MAG	2- 16 PETICESIST LES ALA-ES ARW MERSEE BRAIN TUMER 823-2	552 H 466 55 7645 37 7646 765 86 78	KIONEA Fange Finge Finge	1:05.7 625.5 4.6 878.0	16:5	1:3 -::: 10 10	76.515	748.35 224.3 53.35 58.85	7:1.51 373.02 246-5,03 4086-	31 ⁴ 2.56 3 ⁷ 6.62 263.65
CASE NO. CCCUPATION RESCIENT STATE CAUSE OF BEATH MEW SOED NA.	3- 28 Eveluates Freintes Eveluates E	SEA N AGE 53 VEARS 20 VEAR 1446 MA	AEMIEBUVE FINE FINE FINE FINE FINE	2720.0 2100.0 29.0 295.9 295.9	1000 1000 50 100 250	100 980 10 10	-300 1.964 -983 -156 -017	3.00 3.93 .43 1.56 	3.39 10.66 3.39 3.39	1.69 2.39 .14 2.82
CASE NO. OCCUPATION OCSIDENT STATE CAUSE OF BEATM MET CODE NO.	S-138 JR SCHTIST LCS ALAMOS NEW MEXICC GLOPSY BAPPL B24+8	AS RESP AS RAZY AS RAZY AS RAZY AS RAZY	ata orzere fanan fana	71.0 1.0 1.0 20,0	100 25 25 100	1	6.616 82-750 .230 .710	401.00 863-75 5-75 71.00	8464.79 863730.00 8750.00 3586.00	8464,79 \$637-50 \$72900.00 \$4850.00
CASE NO. DECLIPATION RESIDENT STATE CAUSE OF BEATM MEM CODE NO.	7- 16 MACHINIST LCS ALAMOS REW MERICC MEANT ATTACK 428-3	\$ER M 45E 42 YEARS AA YEAR 1971 MG 84	Aguigburg Fandh Fand Fand Fand Fand Fand Fand Fand Fand	2002.0 1010.0 0.2 221.0 90.0	1000 1000 25 100 800	250 250 10 10	3.313 7.551 9.666 3.881	13.25 30.20 1.25 4.65	6.62 29.67 262.92 4.67	11.25 89.47 8.02 31.27

7481	E 4-41	SPECJAL CASE	STUDYS REPL	.1C4TE 4884'	75					
•¢	at a minimum mer	RTING LEVEL . D.	93 D/4 PER	SAMPLE VOL	WALASED	BASED ON	TOTAL EGUNTS.	BE SALLERS	COVERY STAT	137105
	`		TISSUE	WET WEJOHT SAMPLE (GRAM)	VOLUME CF SAPPLE (CC)	VOLUPE SAMPLE ANALYZED ICCI	activity Per Vol anal Idis/Himi	activity beight icis/aini		ACTIVITY PER STANNARD ORGAN (DIS/WIN)
CASE NO. OCCUPATION RESIDENT STATE CAUSE OF DEATM MEW CODE NO.	1- 39 TECHNICIAN LOS ALAMOS AEW MERICC TRAUMA E018-3	8EH M AGE 38 YEAR 11 YEAR 1959 NG 75	LTYPE LTYPE LUNG LUNG LUNG LUNG LUNG LUNG LUNG LUNG	1950.00 9	1000 1000 1000 1000 1000 1000 1000 100	100 100 100 100 100 100 100 100 100 100	2053.380 1782.685 465.200 486.750 322.005 1013.255 532.450 532.450 103.350 15.277 17.282 44.495 1674 49.172 25.612 16.226 20.220 3.200 2.2	20533.50 14624.65 14624.65 5725.60 3220.65 3220.65 3220.65 5746.60 5746.60 5746.60 5746.60 5746.60 5746.60 5746.60 152.72 444.65 162.72 284.26 284.60 284.60 354.60 354.60 354.60 354.60	10530.00 9143.00 8480.00 8750.00 3744.03 31728.03 31728.03 31728.03 2774.00 2774.00 2774.00 2774.03 27	179(1.00 15443,10 5489,00 5756,00 3784,00 5756,00 6770,00 11-25,00 6770,00 10-50,00 200,20 20
			muscle muscle	195.5 168.5	165	10 10	.279 .036	2.79 34.	13.48 1,40	410.55 \$7,14

TABLE A-VII - GEN TOPE CITY CARES AVALUIED FOR BL. TONIL-

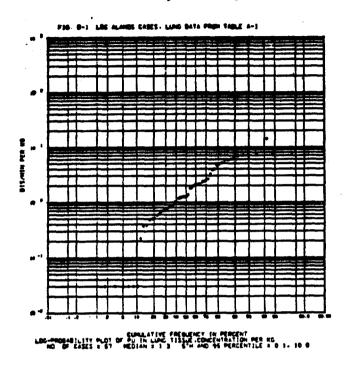
7491	'ù 9-431 deu .	COK CITY CARE	4 AVAL-SED	FOR BL. YORK	•					
•41	AL & PINIMEM REPORT	INC LEVEL # 6	GASSI ON TOTAL COMPSHERCHARD PETONERY REACTSTICS							
			715975	5 81	Ve. Dut	Vict ME	45714174	40719114	ALT: 11++	42*****
			••••	## T 34 T	(*	81 [PC P	all trian		
				\$4ቀባኒኛ 158441	\$4**.E	1201	\$5.4 4546 (p.(\$7855)	#117#1 (215/+14)	1015/4197	\$745.45
										1715 4141
									_	
CASE NT.	4- ?	SC1 #	LIVER	410.0	556	25	.c=o .2*6	1.98	7,47	7.87
CCCUPATION PEBLICAT	N.B N.B	438 47, 78438 A4	1.15.3 63463	57.8 45.'u	5 00	10 Se	.014	COFL O	ev	***
STATE	AFW YERK		#10	155.0	210	10	-020	.75	4.54	33,67
CAUST OF DEATH	BL-SMCT IN ARTH	46 WY								
							:	en Rije		
CASE NO. OCCUPATION	4- 4 NA	\$€# ₩ 46€ #9	LIVER	420. 0 595.0	100 100	25 25	0.000 .169	3.78	4u*_* 	4.39
DESTREUT	h _d	78485 44	LUND BOWAD	35.0	50	10	-047	4.47.	€n= -	,
STATE OF DEATH	NEW TOPK CERERRAL CONT	484g 1948	• ; •	160.0	250	1n	.009	44 HL 0	ens(•	
MER COUL NU!	643.0	86 NA								
CASE WO.		SEX +	LTVER	453.0	144	25	.027	47RL 0	<##L	,
GCEUPATION:	NA	ASE 3R	LUNG	945.0	500	- 25	•657	1.14	1,26	1.24
MESTOENT STATE	NA NEW YORK	YEARS LA	8044D 818	25.0	51 250	10 10	• • • • • • • • • • • • • • • • • • • •	2.17	10.AC 19.61	74.27
CAUSE OF PEATH	ARTERIOSCLEROSIS	AERE Java		=		••			2	
MEA COUR FO.	498+3	RS RA								
CASE NO.	4- 1	SEX M	LIVER	275.0	250	25	.926	40010	enale	•
OCCUPATION	NA	AGE 34	FARE	400,0	310	25	.263	g. 24	19.94	38,96
MESINENT STATE	NEW YORK	TEARS NA	60≒4ŋ Rîñ	136.6	25 p	16 14	.434	.05	6,16	43,12
CAUSE OF DEATH	PULTIPLE INJ	ROPS RAST AN BX	-			•			•	• -
MER COUE MU"	E e 25.0	KS NA								
CASE WO.	4- 10	\$E1 #	LIVER	456,0	510	25	-150	3.40	6,58	11.10
OCEUPATION	NA	46 46	LUNG	460.0	500	25	.063	1.26	1.41	1.91
STATE	NEW TORK	TEARS NA	elb elb	32.9 176.6	250	16 10	•6)0 •106	4.00	23.53	164,71
CAUSE OF DEATH	MARESTURATE POSS	YEAR 1968		• •						
MER COUE NO.	972.0	KS NA								
CASE NO.	4- 12	\$E1 #	FINER	207.0	250	25	-069	.00	2.40	4.01
OCCUPATION	NA	46E 45	F11MB	665.0	510	25	•••?	eraje eraje	ens!	
RESIDENT STATE	MA MEM YORK	TEARS LA	BONAD RIB	37.0 150.0	254	10 39	.019	OPRL.	CHUT.	
CAUSE OF DEATH	BPAIN SKULL MD	YEAR 1968		••••		•••	•		-	
MEN CODE NO.	854.1	NS NA							_	
CASE NO.	4- 14	86T H	LIVER	250.0	250	25	•060 •010	.69 .69	2.40 ensi	4,88
OCTUPATION DESIDENT	NA Na	19E 45 7E185 A.A	EUNS BOYEN	375.0 30.0	500 50	25 10	.002	e) RL o	engl e	•
STATE OF BEATH	HEW YORK	TEAR 1966	*1*	140.0	230	10	-053	1.32	8,28	87,97
MEN COOL NO.	MEART STAB WOUND	På NA								
	•			_	_					
CASE NO.	4- 16	36 2	FIVER	550.0 447.0	500 500	25 25	.914	दकति। क दक्षति। क	enst e	
GCCUPATION BESIDENT	ma Ma	ABE 30	€D44D LU48	80.0	50	10	.,,,,	e) Bije	«wat •	•
STATE OF DEATH	FEN YORK	7E48 1964	-18	150.0	250	30	-014	4686.0	ang!	•
HEW CODE NO.	£919+å	RG NA								
		*** ~	4.045-		4		**	. 4-	•	
SASE NO. OCCUPATION	4- 18 NA	5[1 M 466 34	LIVER	415.0 460.0	500	25 25	•8•1 •875	1.22 1.20	2.94 2.27	2.27
RESIDENT	Na	YEARS NA	BONAD	30.0	50	10	• 845	-22	7.50	.31
STATE OF DEATH	NEW YORK ALTC ACCIDENT	ese jesa	WIW	160.0	250	10	•#1#	d≯Rį•	CHAL.	•
MEN CODE NO.	E025-3	RG MA					•			
CASE NO.	4- 20	562 W	LIVER	349.0	500	25	75	.70	2.04	3,50
CESE NO. OCCUPATION	M4 20	ASE 49	LUNG	444.4	100	25	35	.76	1.03	1.03
RESIDENT STATE	NA	YEARS NA	DAMOS PIR	205,0	850	25 10	****	e≯Rį+ e≯Rį+	dest.	
CAUSE OF NEATH	MER ADMK	YEAR 29AR	-,-	****	***	••	44-3	20.16	-4-6	
MER COUL NOT	MA	RG NA								
CASE WIT.	4- 22	\$(1 m	LTYER	445.0	100	25	•193	2.04	2,13	3,63
OCCUPATION	MA 22	466 13	LUNS	1000.6	300	25	-618	coli o	CUPL C	
RESIDENT STATE	NA MEN TOOM	YEARS NA	GONAD Rig	25.0	56 254	10 10	.001 .004	ephi o ephi o	andi a	
CAUSE OF DEATH	NEW ACUK NEW ACUK	4588 3448	4.0.0	120.4		••	30-4	4446.		
MER COUE NO.	434.5	T.S. NA								
P458 NA	4- 24	SEI AA	LIVER	300.0	250	25	. 451	.51	1.70	2.44
CASE NO. OCCUPATION	4- 24 Ni	AGE AA	LUNG	470.0	541	25	•021	CPRL O	enst.	•
MESTAENT	NE	TEARS NA	60445 814	50.0	\$8 253	16	-615	49 Ri 4 49 Ri 4	๔ษฅ(๋* ๔ษฅ(๋*)
\$7418	NEW YERK	7548 1C46	F 47	160.0	673	4.7	****	****		

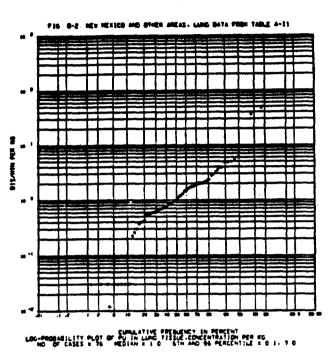
·			TIBBUE	bet Weisht Sample Israhi	CF	VOLUME Sample Aral VZED (CC)	ACTIVITY PER VOL ANAL (DIS/MIN)	activity a per gegan weight iris/bini i	PER RA	ACTIVITY PER STANDARD ORGAN (DIS/MIN)
EASE NO. OCCUPATION DESIDENT STATE CAUSE OF MEATH MEW COME NO.	6- 26 MA MA MFW YARK AUTE ACCIDENT EPPS-8	es ma Tean jang Tean jang	SIS OCTO FINE FIRES	435.0 357.0 40.0 100.0	250 340 50 250	25 25 10 10	.966 .817 .811 .819	obb derile derile derile	cnst. cnst. cnst.	g,34
CASE WA. OCCUPATION DESIDENT STATE CAUSE OF BEATH MED COME NO.	6- 26 NA NA NEW YORK AUTC ACCIDENT EP25-N	SEX M AGE 27 YEAR LA YEAR 19AG MA	elu eovvo fing fiaeu	319.0 49.0 49.0 215.0	250 500 50 250	25 25 10 10	•1•4 •011 ••00 ••00	lobb aprijo aprijo aprijo	6,4\$ 4wRL0 4wRL0 4wRL0	7,98
EASE NA. OCCUPATION OCSIDENT STATE CAUSE OF DEATM MEM COME NO.	6- 30 NA NA NEW YORK GLN ENJ MEAD EQ14-8	SEX M AGE 25 VEARS AA VEAR (968 MB	EDNAD FINE FINER	470.0 438.0 30.0 100.0	250 300 50 250	25 25 10 10	•828 •841 •968 •141	epRio • n2 • ePRio 3.52	30.58 40510 3.84 40610	1,84 [37.88
CASE NO. OCCUPATION PESIDENT STATE COUSE OF DEATM MED COME AO.	6- 32 NA NA NEW YORK STAR WOUNDS EPAS-5	SES 'M AGE SO TEARS AA VEAR JOAN MG MA	biu Bonyd Fing Fiaes	435.0 50.0 50.0 435.0	250 500 50 50	25 25 10 10	.056 .014 .005 0.000	.50 epace epace epace	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	2,63
CASE NO. OCCUPATION PESIDENT STATE CAUSE OF REATM MEM COME NO.	4- 34 MA NA NA TOPK CPEST STAB WD 461-1	SEZ M AGE 31 YEARS AA YEAR JOAA MA	BIB BONAD FUMB FIME	365.0 705.0 42.0 155.0	250 500 50 250	25 25 10 10	.033 .034 .034	.33 errio errio errio	eum. Cump Jawa Jawa	1,94
CASE NO. OCCUPATION OCSIDENT STATE CAUSE OF MEATH MEU CODE NO.	6- 36 MA Ma Ma MEW YORK STAR WOUNCS 669.6	M 138 TC 36 TA SAÁS TA SAÉS TA MA	FINE FONATI FINE FINE FINE FINE FINE FINE FINE FIN	350.0 340.0 30.0 g24.6	250 250 50 250	25 25 10 10	.002 .026 .626 .005	.82 «PRL» «PRL» «PRL»	2.34 Cupi o Cubi o Cubi o	•
EASE WIN. OCCUPATION OF SIDENT STATE CAUSE OF DEATM MED CODE WIN.	A- 38 NA NA NA NEW YORK ALTC ACCICENT E89558	STR M AGE 21 YEARS LA YEAR 1966 MA	HIR GONTO FINE FIAEN	205.0 63.0 69.0 89.0	300 500 50	25 25 10 10	•209 •095 ••000 •#31	.04 conto conto conto	2.93 dupto dupto 3.92	
CASE NO. OCCLPATION RESIDENT STATE CAUSE OF DEATM MEN CODE NO.	6- 48 MA MA BEU YOPK MEAC IMJUNIES EQPS-A	SER F ABE PR VEARS NA VEAR 1968 RB NA	Wis WOMPD Fine Fiaeu	276.0 000,0 15.0 200,0	100 500 50 250	29 25 10 19	.962 -811 6.80n -818	.25 erfic erfic erfic	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	1.50
EASE WR. DEELPATION DESIDENT STATE CAUSE OF BEATM MEM COCE NO.	4- 62 Na Na Ngu YORN WYCCARNIAL NYPER 694.5	SE2 M AGE 66 VEARS LA VEAR JOAR NO NA	els eogro fine fine	450.0 540.0 37.0 275.0	259 949 59 251	25 25 10 10	•017 •012 •003 •052	.77 eprio eprio 1.36	1.71 curle curle 4.81	2.91 33.76
CASE NO. OCCUPATION MESITENT STATE CAVES OF MEATH OF MECODE NO.	4- 44 Ns Ns Ngu York Status asthmatic Pal-0	SEX F AGE 37 VEARS NA VEAR 19NA VEAR 19NA	eld sowyd Fnag Fiagu	400.0 377.0 15.0 255.0	250 500 50 250	25 25 10 10	•116 •934 •957 •648	1.14 .60 .28 3.00	2.57 1.80 19.00 3.02	4,36 1,88 76 76 27,45
EASE NO. COLLECTION RESTRENT STATE CALIF OF PEATH HEW CODE NO.	e- es es es es es es es es es es es es es e	SER M AGE 25 YEARS AA YEAR IGAR TO Mr	ele curab fine fines	\$40.0 395.0 30.9 242.0	25. 50. 50. 25.	25 25 16 10	.005 .003 .011 .105	4681 e 4681 e 4682 e 4.62	خستان خستان خستان عستان	133,76
CASE NO. CILLPATION FEBICENT STATE CLISE OF OFFETH PEW COTE NO.	do de ha hi fin vibr bilific ind deg.c	SER M AGE 37 Years aa Year jara RG Na	Liver Loui Govad R.R	380.0 755.0 35.0 230.6	250 100 10 210	25 25 10 10	.657 .625 .518 .117	\$-4\$ 4-8° 6-8° 6-8°	1,50 epeto epato 12,72	2.55

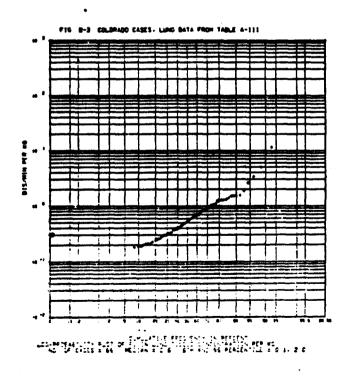
			715\$U <u>F</u>	wet bf;s>t saup_f (grai)	1663 24-27E 64 AGEGINE	HOLHEE SAMEE ANALYZED ECCI	ACTIVITY PPR VOL ANAL 1015/MIN;	SER ESEAU STRAFT WINNESS	1015/4141 FE- 40	#5*5**** E5# \$****** 785** 1215****
EASE NO. OCCUPATION OFSIDENT STATE CAUSE OF CFATH	e- 5- Na Na Wb, Tifle 1-J	AEVB Idvi AEVB VV VEE VI 467 m	17468 1746 66449 819	311.0 601.6 56.6 350,6	250 100 59 250	25 25 10 10	.051 .674 .684 .416	.51 465,0 465,0 468,4	1.47 dwr _i d dwr _i d	

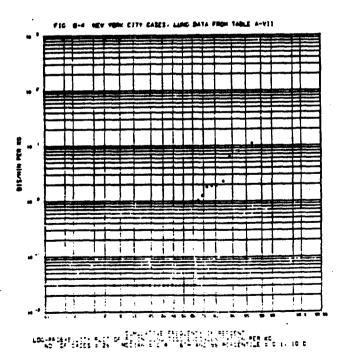
APPENDIN B

CUMULATIVE FREQUENCY DISTRIBUTIONS

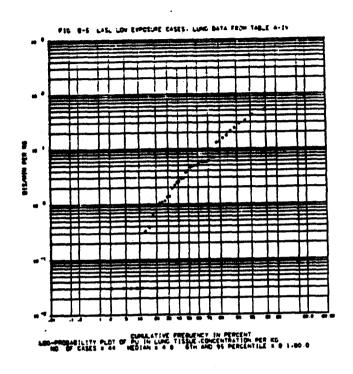


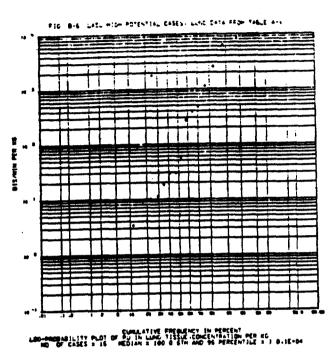


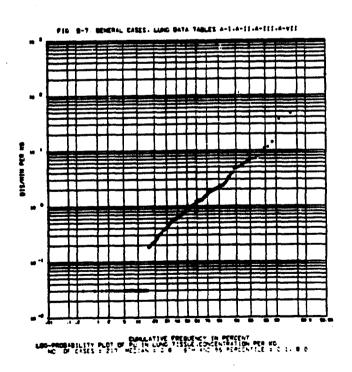




LANL







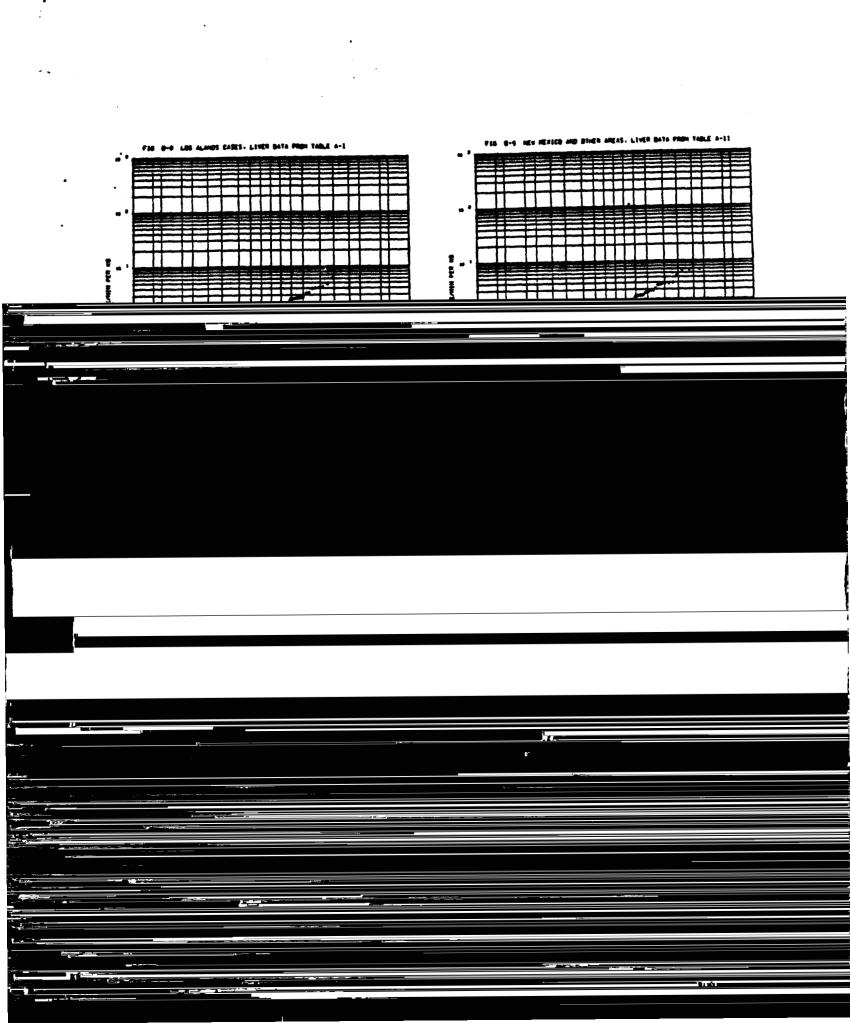
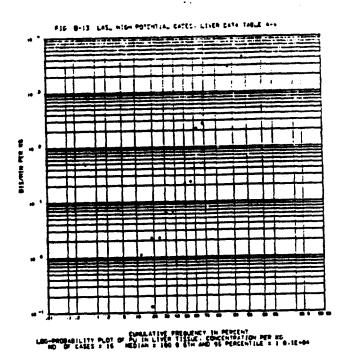
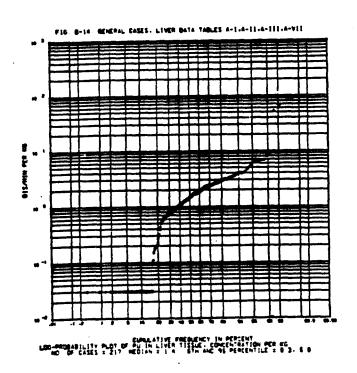
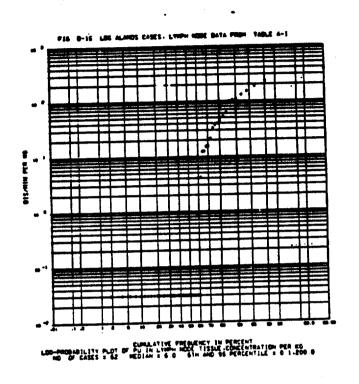
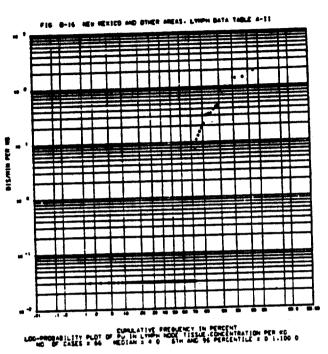


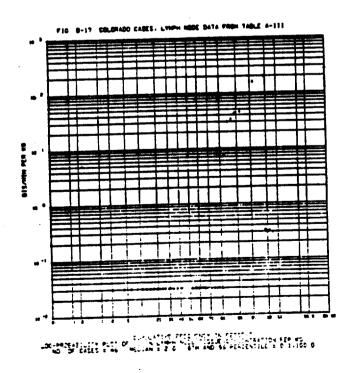
FIG. 8-12 LASE LES ENGESPE SASES. LIVES DATA PRODUCTION OF A RECORD SANCE AND TABLE AN



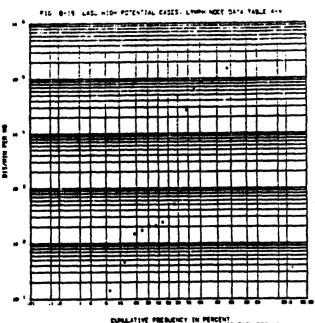






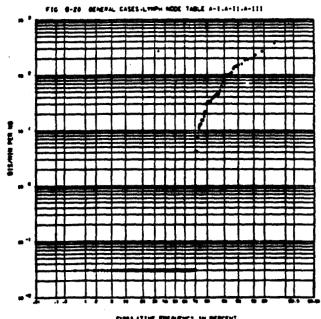


PIG Q-18 LASE LOW POTENTIAL CHIES. LAWREN AGGE BATA FPON TABLE A-1V



CAMA AT INF PROBLEMENT IN PROCESS AND AN ACCOUNT AND A

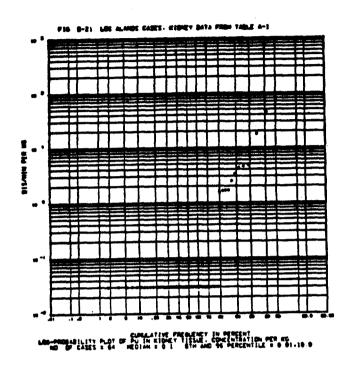
CAMPATIVE PRESENCE IN PRESENT AND PRESENTIAL E.D. 1.16-06

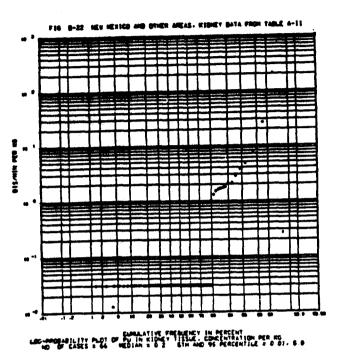


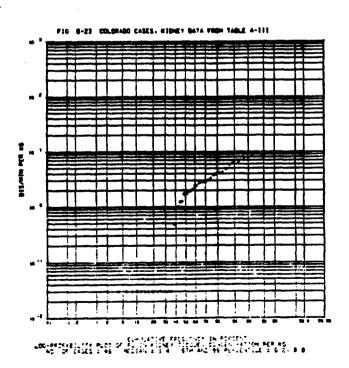
CIMALATIVE PROMETICS IN PREPARENT

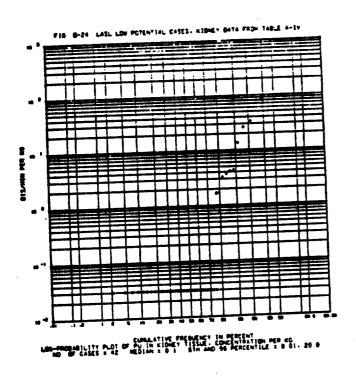
COMMANDIATIVE PROMETICS IN PROPERTY

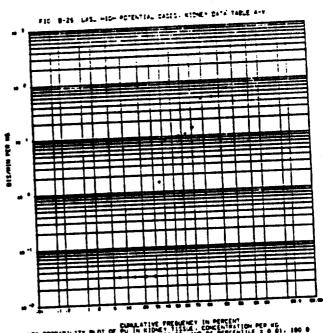
COMMANDIATIVE PROMETICS IN ACCOUNTERNALLY 9). 200 (

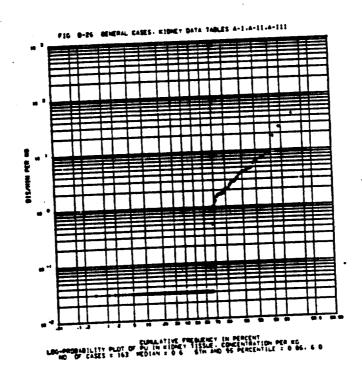


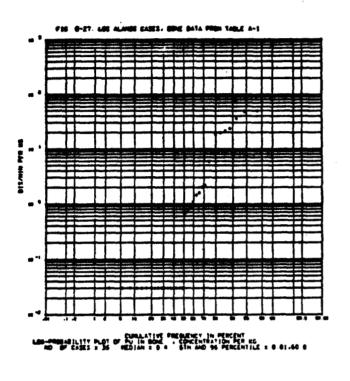


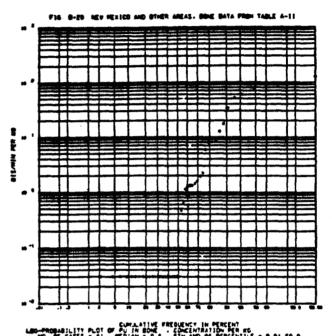


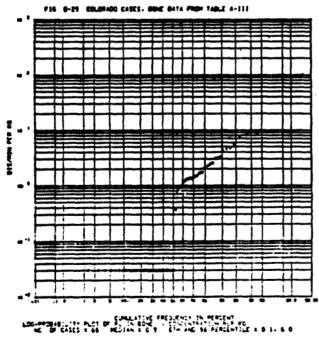


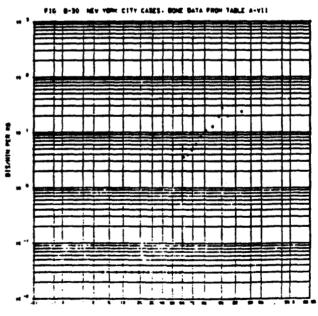




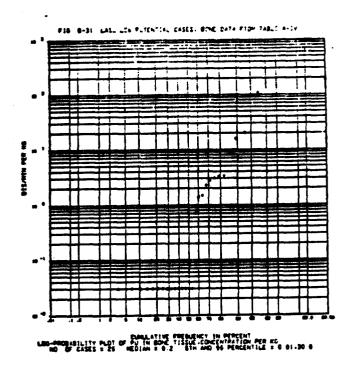


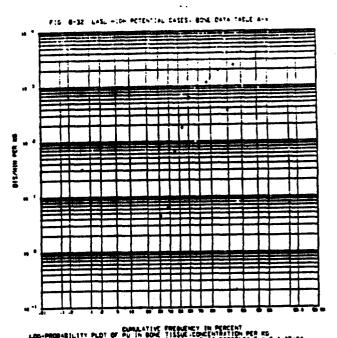


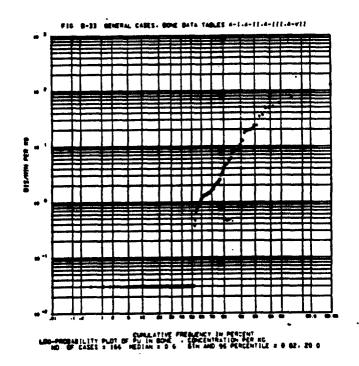


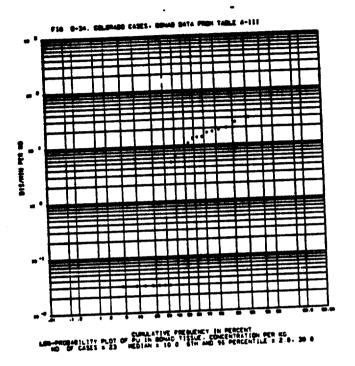


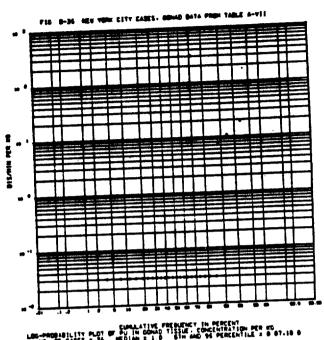
LDC-MARKER LITT PLET OF T. IN EIGHT FOR THE TO THE MEDICAL TO THE MEDICAL THE TOTAL THE T











LANL

APPENDIX C

SUMMARY TABLES

TABLE C-1 50TH PERCENTILE DISTRIBUTION OF PLUTONIUM IN HUMAN TISSUE

		Plutonium	um Disintegrations per Minute per Kuopam			
Nonoccupationally Exposed	Lung	Liver	Lymph Node	Kidney	Bone	Gonad
Lee Alamos New Mexico & U. S. Colorado New York All Populations	1.3(57) ⁵ 1.0(76) 0.5(66) 0.4(26) 0.8(217)	1.1(58) 0.9(73) 1.7(60) 1.7(26) 1.4(217)	5.0(52) 4.0(66) 2.0(46) b 3.0(164)	0.1(54) 0.2(66) 1.4(45) b 0.6(163)	0.4(35) 0.5(41) 0.9(65) 2.0(25) 0.6(166)	b 10.0(23) 1.0(26) b
Occupationally Exposed Potential High Potential	4,0(44) 100.0(15)	1.0(41) 100.0(15)	15.0(42) 700.0(14)	0.1(42) 10.0(13)	0.3(25) 50.0(11)	b b

a(a) aumber of samples.

TABLE C-II

SUMMARY OF PLUTONIUM IN HUMAN TISSUE ESTIMATED FROM LOG-PROBABILITY PLOTS OF CONCENTRATION PER kg OF TISSUE

5th to 95th

		•	54 - 41	Percentile	
	Population	Tissue	Median (dis/min/kg)	of Results (dis/min/kg)	
	General			0.1 to \$.0	
	Low-Potential		4.0	0.1 to 80.0	
	High-Potential		100.0	1.0 to 1x104	
	General	Liver	1.4	0.3 to 5.0	
	Low-Potential		1.0	0.1 to 10.0	
	High Potential		100.0	-0.1 to 1x10 ⁴	
	General	Lymph			
		Node	3.0	0.1 to 200.0	
	Low-Potentia!		15.0	0.6 to 400.0	
	High-Potential	.•	700.D	0.1 to 1x10 ⁶	
	General	Kidney	0.6	0.05 to 6.0	
	Low-Potential		0.1	0.01 to 20.0	
	High-Potential		1.0	0.01 to 100.0	
	General	Bone	0.6	0.02 to 20.0	
•	Low-Potential		0.2	0.03 to 30.0	
1162(940)	High-Potential		30.0	6.6 to 1x104	

Samples not requested.

Data cannot be compared as a group because of differences in type and duration of exposure.