

U.S. DEPARTMENT OF ENERGY

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**YUCCA MOUNTAIN
SITE CHARACTERIZATION
PROJECT**

**SOCIOECONOMIC
MONITORING PROGRAM 1994
U.S. DEPARTMENT OF ENERGY/NEVADA
EMPLOYEE SURVEY DATA REPORT**

EXECUTIVE SUMMARY



**SEPTEMBER 1994
UNITED STATES DEPARTMENT OF ENERGY**

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SOCIOECONOMIC MONITORING PROGRAM
1994 U.S. DEPARTMENT OF ENERGY/NEVADA
EMPLOYEE SURVEY DATA REPORT

Executive Summary

SEPTEMBER 1994

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Prepared by the Yucca Mountain Site Characterization Office as part of the Civilian Radioactive Waste Management Program. The Project is managed by the Yucca Mountain Project Office of the U.S. Department of Energy, Office of Civilian Radioactive Waste Management.

Prepared for

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CONTRACT #DE-AC08-87NV10576

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1-1
Report Organization	1-2
Parameters of the Survey	1-3
Employee Questionnaire	1-3
Data Collection	1-4
Data Analysis	1-4
2.0 DOE EMPLOYMENT IN NEVADA	2-1
Background	2-1
3.0 SUMMARY OF THE FINDINGS OF THE 1994 DOE/NEVADA EMPLOYEE SURVEY	3-1
APPENDIX A - U.S. DEPARTMENT OF ENERGY/NEVADA EMPLOYEE QUESTIONNAIRE	
APPENDIX B - SUPPORTING DATA	

LIST OF TABLES

<u>Table</u>	<u>Title</u>	<u>Page</u>
1-1	Employee Survey Data Items	1-6
2-1	DOE in Nevada Projects by Respondents	2-4
2-2	DOE in Nevada Projects by Respondents, Total and Average Person Years of Experience	2-4
2-3	Occupational Distribution of Respondents by DOE in Nevada Projects . . .	2-6
2-4	Labor Status of Respondents by DOE in Nevada Projects	2-6
2-5	Occupational Distribution of Respondents by Labor Status	2-7
2-6	Occupational Distribution of Respondents by Educational Attainment	2-7
2-7	DOE in Nevada Respondent Place of Residence by Place of Work	2-9
2-8	DOE in Nevada Respondent Place of Residence by Place of Work	2-9
3-1	Occupational Distribution, DOE/NV Workers	3-2
3-2	Educational Attainment, DOE/NV Workers	3-3
3-3	Residential Ownership, DOE/NV Workers	3-5
3-4	Household Income, DOE/NV Workers	3-6
B-1	DOE/NVO and DOE Contractor Employment in Nevada: 1961-1994 . .	B-1
B-2	Occupational Distribution of Respondents by DOE in Nevada Projects . .	B-2
B-3	Labor Status of Respondents by DOE in Nevada Projects	B-2
B-4	Occupational Distribution of Respondents by Labor Status	B-3
B-5	Occupational Distribution of Respondents by Educational Attainment	B-3

LIST OF FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
2-1	DOE/NVO and DOE Contractor Employment in Nevada: 1961-1994 . . .	2-2
3-1	Occupational Distribution, Percentages of DOE/NV Workers and Nevada Residents	3-2
3-2	Educational Distribution, Percentages of DOE/NV Workers and Nevada Residents	3-4
3-3	Residential Distribution, Percentages of DOE/NV Workers and Nevada Residents	3-5
3-4	Income Distribution, Percentages of DOE/NV Workers and Nevada Residents	3-6

1994 U.S. DEPARTMENT OF ENERGY/NEVADA

EMPLOYEE SURVEY DATA REPORT: EXECUTIVE SUMMARY

This document presents a summary of the findings of the 1994 survey of DOE-related employees in Nevada. The purpose of the survey is to 1) provide DOE, the State of Nevada and affected units of local government with data for use in evaluating and identifying area-specific economic and demographic effects that may result from activities related to the Yucca Mountain Site Characterization Project (YMP), and 2) to produce a composite picture of the entire DOE labor force in Nevada. During July 1994 7,312 questionnaires were distributed to DOE employees and employees of DOE contractors in Nevada and 4,833 were completed and returned for an overall response rate of 66 percent. It included all persons employed by the Department of Energy's Nevada Operations Office (DOE/NV) and the Yucca Mountain Site Characterization Office and employees of DOE's contractors in Nevada. The findings show that of the total DOE/NV work force, over half (54 percent) of all workers are employed primarily on activities related to the Nevada Test Site (NTS), and have an average of 10.3 years of NTS work experience. Approximately 20 percent of the respondents primarily are employed on the YMP, and have an average of 3.2 years of YMP work experience. The survey contained seventeen questions regarding the economic and demographic characteristics of the DOE in Nevada work force. The questions pertain to work experience, attributes of the worker, place of residence, and composition of the household.

1.0 INTRODUCTION

The Socioeconomic Monitoring Program (SMP) Yucca Mountain Site Characterization Project (YMP) Employee Survey is conducted each year to gather information on the employment and household characteristics of the YMP work force. This year, at the request of the U. S. Department of Energy (DOE) Nevada Operations Office, the survey was expanded to include all DOE employees in Nevada, and employees of all DOE contractors in Nevada, hereafter referred to as DOE/NV. This combined survey effort is referred to herein as the 1994 DOE/Nevada Employee Survey.

The DOE/Nevada Employee Survey is conducted to 1) provide DOE, the State of Nevada and affected units of local government with data for use in evaluating and identifying area-specific economic and demographic effects that may result from activities related to the YMP, and 2) to

produce a composite picture of the entire DOE-related labor force in Nevada--including all persons employed by the Department of Energy's Nevada Operations Office and DOE's contractor employees in Nevada. Considering the moratorium on the testing of nuclear weapons¹, and other DOE budgetary constraints, this issue has a direct bearing on Nevada's economy and the availability of resources for industrial growth and diversification.

The 1994 DOE/Nevada Employee Survey Data Report: Executive Summary, is one of a series of reports that document the findings of the 1994 DOE/Nevada Employee Survey. The other reports include the YMP 1994 Employee Survey Data Report: Executive Summary, and the YMP 1994 Employee Survey Data Report: State and County Data.

Report Organization

The introduction to this document provides the background of DOE employment in Nevada and an overview of the methods and procedures used in the 1994 DOE/Nevada Employee Survey including a description of the parameters of the survey, the employee questionnaire, data collection, and data analysis. Section 2.0 presents the history of DOE employment in Nevada and a description of the work force as revealed through the 1994 survey. A summary of selected work force characteristics is presented in Section 3.0.

¹ In September 1992, Congress legislated a nine-month moratorium on the testing of nuclear weapons, provided for a resumption of testing in July 1993 (with no more than five tests per year, or a total of 15 during the next three years), and mandated an end to nuclear testing, entirely, by 1996. President Bush signed the bill into law in October 1992. President Clinton extended the moratorium in July 1993, with the stipulation that the United States would not test unless another country should do so first. At the same time, the President directed the Department of Energy to maintain its basic capability and readiness to resume testing if that need should arise.

Parameters of the Survey

The DOE/Nevada Employee Survey includes all DOE employees in Nevada, and employees of all DOE contractors in Nevada. This includes two DOE offices, 12 DOE contractors, and eight state and federal government organizations contracted under DOE. Excluded from the survey are 1) organizations that only receive Financial and Technical Assistance from DOE (grants to state and local governments and university funding), 2) DOE organizations or contractors whose funding for the year is less than \$100,000, and 3) leasing agencies. Also excluded from the survey are employees who do not permanently reside in and who do not have their permanent work place in Nevada.

Employee Questionnaire

A self-administered DOE/NV Employee Questionnaire (Appendix A) was developed to gather data on the employment and household characteristics of the DOE/NV work force. This information, which is otherwise unavailable from administrative records, is required for identifying any area-specific economic and demographic effects that may result from DOE activities in Nevada.

The DOE/NV Employee Questionnaire consists of seventeen questions, including one matrix item. Eight questions refer to the respondent's employment associated with DOE activities in Nevada, five questions relate to the respondent's occupation, education, and place and type of residence, and four questions address the demographic characteristics of the respondent and members of the respondent's household. A cover letter, which was attached to the questionnaire, provided a brief explanation of the purpose of the survey, and informed the respondent that all information

obtained from the survey was confidential, and would be reported only in summary form. A pretest was conducted to ensure that each question was understandable, and could be answered easily. The time required to complete the questionnaire was approximately ten minutes.

Data Collection

Prior to implementation of the survey, a contact person was identified within each of the DOE/NV offices, DOE/NV contractor organizations, and state and federal government organizations, to assist in coordinating the survey effort. All contact persons were individually instructed regarding their responsibility to distribute, collect, and return the completed questionnaires.

The survey was carried out during July 1994. Of the 7,312 questionnaires that were distributed to DOE/NV workers, 4,833 questionnaires were completed and returned, for an overall response rate of 66 percent.

Data Groups

The economic and demographic effects that may occur as the result of activities related to the DOE in Nevada are measured in terms of characteristics of the DOE/NV work force, and the location and composition of households associated with that work force. The data items used to assess these features, as shown in Table 1-1, are grouped into four categories: work experience (eight items), attributes of the worker (three items), place of residence (four items), and composition of the household (seven items). This summary report focuses upon DOE in Nevada project experience, worker attributes, and worker place of residence.

Table 1-1. Employee Survey Data Items

Data Category	Data Item
Work Experience	<ul style="list-style-type: none"> • Current employer • Location of work • Mode of transportation to and from work • Total hours charged to DOE/NV & NTS and YMP activities during the week prior to the survey • Labor organization status • Total months of DOE/NV & NTS and YMP work experience • NTS worker transfers to YMP assignments • Relationship between DOE/NV & NTS and YMP work experience
Attributes of the Worker	<ul style="list-style-type: none"> • Level of education • Major area of study in a degree program • Occupational category
Place of Residence	<ul style="list-style-type: none"> • Location of current residence • Type of housing unit • Ownership of current residence • Length of ownership of current residence
Composition of the Household	<ul style="list-style-type: none"> • Total number of household members • Age of each household member • Gender of each household member • Employment status of each household member • Income category for total household income • Total number of household members employed by DOE/NV or an NTS contractor • Total number of household members employed by DOE/YMSCO or a YMP contractor

2.0 DOE EMPLOYMENT IN NEVADA

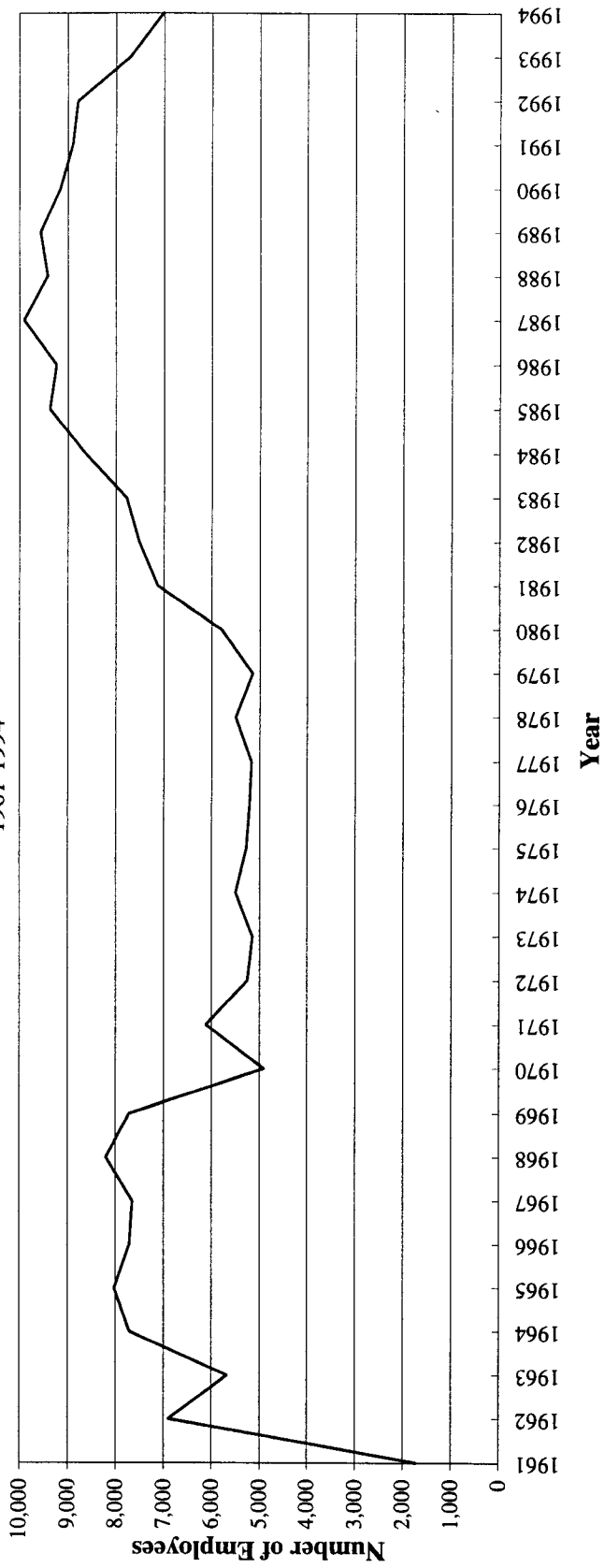
Background

In 1950, President Truman established the Nevada Test Site (NTS) as the nation's on-continent nuclear weapons test site. Over the years, the importance of the testing of nuclear weapons led the United States to invest heavily in the massive NTS outdoor laboratory, as well as in other DOE-related activities developed at (or in support of) the NTS. Other projects include the 790-acre Low-Level Radioactive Waste Management Site, the Radioactive Waste Management Site (RWMS) in Yucca Flat, national radiological emergency response programs based at Nellis AFB (such as the Nuclear Emergency Search Team, the Aerial Measurements Program, and the Federal Radiological Monitoring and Assessment Center), U.S. Department of Defense projects not directly related to nuclear weapons testing, the Liquified Gaseous Fuels Spill Test Facility.

Figure 2-1 shows the total number of persons employed by the DOE's Nevada Operations Office, and DOE's contractor employees in Nevada during the month of July each year from 1961 to 1994. As shown in the figure, the greatest number of employees (9,908) occurred in 1987. As a result of the nuclear testing moratorium and other budgetary constraints, this figure declined to approximately 7,016 by 1994.

The work force currently employed by the DOE's Nevada Operations Office and DOE's contractor employees in Nevada constitutes a unique mix of highly-specialized professionals, managers, craftsmen, and support personnel. The information in this report is compiled from

Figure 2-1. DOE/NVO and DOE Contractor Employment in Nevada:
1961-1994*



*DOE employment figures were taken from July of each year. The figure for 1965 is an estimate based on partial data.

4,833 completed employee questionnaires. The questionnaires were distributed to employees of DOE/NV or DOE/NV contractors who either live in Nevada or have their permanent work station in Nevada. Table 2-1 provides the distribution of DOE/NV work force by project type. Over fifty-four percent of the respondents indicated they work exclusively on DOE/NV & NTS projects and nearly twenty percent indicated they work exclusively on the YMP. In addition, over eight percent indicated they work on both projects of the DOE/NV & NTS and the YMP. Eighteen percent of the respondents indicated they work on "other" projects. Included in the other category are employees that do not charge their work hours directly to a DOE charge number (office/clerical and other support personnel) and employees that work on projects that are funded by DOE but are not related directly to the NTS or the YMP.

One objective of the survey was to determine the experience of the DOE/NV work force in Nevada. Table 2-2 provides a breakout of total person years of DOE/NV work experience. Of the 4,833 returned questionnaires 62.0 percent provided sufficient information to compute an estimate of the years of DOE experience in Nevada. It should be noted that the estimated years of work experience reported in Table 2-2 is computed only from those respondents that report continuous DOE work experience. Therefore, the estimated number of years of work experience (24,831) should be viewed as a conservative estimate.

The response data supporting the following tables, Tables 2-3 through 2-6, may be found in Appendix B. Table 2-3 provides the occupational distribution of respondents working on the

Table 2-1. DOE in Nevada Projects by Respondents*

Project Type	Respondents	Percentage
DOE/NV & NTS	2,608	54.0%
YMP and DOE/NV & NTS	387	8.0%
YMP	960	19.9%
Other	878	18.2%
Total Respondents	4,833	100.0%

* Frequency and percentage distribution from survey questions 3 and 4 (see Appendix A).
 Classification based upon primary project with continuous service.
 Percentages may not total 100 due to rounding.

Table 2-2. DOE in Nevada Projects by Respondents, Total and Average Person Years of Experience*

Project Type	Respondents	Person Years Total	Person Years Average
DOE/NV & NTS	1,968	20,282	10.3
YMP and DOE/NV & NTS	191	1,869	9.8
YMP	836	2,680	3.2
Total Respondents	2,995	24,831	8.3
Other	927		
No Response	911		
	4,833		

* Person year calculations based upon responses to survey questions 3, 3b, 3c, 4, 4b, and 4c (see Appendix A).
 Estimates are based on only those respondents reporting continuous service.

four DOE project types. The occupational distribution of workers by project type is presented in Table 2-3 and illustrates the differences in the occupational distribution of each DOE project in Nevada.

Table 2-4 provides detailed information on the labor relation status for each project classification. The categories reported in Table 2-4 are union, non-union/exempt, and non-union/non-exempt. Exempt employees refer to those who, under the Fair Labor Standards Act (FLSA), are not eligible for overtime pay. Non-exempt employees are those who, under the FLSA, are entitled to overtime pay. Of the respondents answering question 8 (see Appendix A) regarding labor relation status, 19.4 percent indicated union membership. The majority of the union members are working either exclusively on DOE/NV & NTS activities or on both DOE/NV & NTS and YMP activities. Only 5.1 percent of the exclusive YMP work force indicated any union affiliation.

Table 2-5 provides a further breakdown of the labor relation status of the DOE/NV work force by occupation. Ninety-six percent of the union members working on projects related to DOE/NV fall in the categories of craft workers, operative, laborers, and service workers; whereas nearly eighty two percent of the non-union/exempt employees are classified as officials and managers or professionals. Eighty percent of the non-union/non-exempt employees are classified as technicians or office/clerical.

Table 2-3. Occupational Distribution of Respondents by DOE in Nevada Projects*

Occupation	DOE/NV & NTS	YMP	DOE/NV & NTS and YMP	Other	Total
Officials and Managers	12.8%	16.6%	12.3%	10.2%	13.0%
Professionals	34.5%	49.7%	33.2%	21.7%	35.1%
Technicians	13.7%	7.0%	13.1%	9.5%	11.6%
Craft Workers	16.4%	2.2%	19.1%	9.6%	12.6%
Operatives	2.3%	0.8%	3.1%	1.9%	2.0%
Laborers	3.0%	1.2%	3.7%	3.0%	2.7%
Service Workers	5.3%	0.8%	1.0%	3.0%	3.7%
Office/Clerical	11.9%	21.4%	14.6%	40.9%	19.2%
Others	0.2%	0.1%	0.0%	0.2%	0.2%
Total Respondents	100.0%	100.0%	100.0%	100.0%	100.0%

* Cross tabulation distribution from Table 2-1 and survey question 9 (see Appendix A). Column percentages from data presented in Table B-2 (Appendix B). Percentages may not total 100 due to rounding.

Table 2-4. Labor Status of Respondents by DOE in Nevada Projects*

Labor Status	DOE/NV & NTS	YMP	DOE/NV & NTS and YMP	Other	Total
Union	25.9%	5.1%	27.6%	11.5%	19.4%
Non-union/exempt	52.9%	66.1%	49.3%	47.2%	54.2%
Non-union/non-exempt	21.1%	28.8%	23.1%	41.4%	26.5%
Total Respondents	100.0%	100.0%	100.0%	100.0%	100.0%

* Cross tabulation distribution from Table 2-1 and survey question 8 (see Appendix A). Column percentages from data presented in Table B-3 (Appendix B). Percentages may not total 100 due to rounding.

Table 2-5. Occupational Distribution of Respondents by Labor Status*

Occupation	Union	Non-Union/ Exempt	Non-Union/ Non-Exempt	No Response	Total
Officials and Managers	0.4%	23.3%	1.5%	8.5%	13.0%
Professionals	0.2%	58.3%	12.7%	36.4%	35.1%
Technicians	2.3%	8.6%	23.8%	17.8%	11.6%
Craft Workers	59.8%	0.7%	3.1%	7.0%	12.6%
Operatives	10.0%	0.0%	0.3%	0.8%	2.0%
Laborers	11.5%	0.3%	1.2%	1.6%	2.7%
Service Workers	14.7%	1.0%	1.1%	3.1%	3.7%
Office/Clerical	0.3%	7.7%	56.1%	24.8%	19.2%
Others	0.6%	0.1%	0.1%	0.0%	0.2%
Total Respondents	100.0%	100.0%	100.0%	100.0%	100.0%

* Cross tabulation distribution from survey questions 8 and 9 (see Appendix A). Column percentages from data presented in Table B-4 (Appendix B).

Percentages may not total 100 due to rounding.

Table 2-6. Occupational Distribution of Respondents by Educational Attainment*

Occupation	Bachelor's Degree	MS/MA/ MBA	PhD/JD/ Ed.D	High School Some College Vocational	No Response	Total
Officials and Managers	34.1%	22.5%	5.0%	38.4%	0.0%	100.0%
Professionals	48.3%	22.8%	6.3%	22.3%	0.3%	100.0%
Technicians	18.1%	2.5%	0.0%	79.4%	0.0%	100.0%
Craft Workers	2.8%	0.0%	0.0%	96.5%	0.7%	100.0%
Operatives	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Laborers	3.1%	0.0%	0.0%	93.8%	3.1%	100.0%
Service Workers	7.4%	1.1%	0.0%	89.1%	2.3%	100.0%
Office/Clerical	7.8%	0.7%	0.3%	90.7%	0.4%	100.0%
Others	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
Total Respondents	25.6%	11.3%	2.9%	59.6%	0.6%	100.0%

* Cross tabulation distribution from survey questions 9 and 10 (see Appendix A). Row percentages from data presented in Table B-5 (Appendix B).

Percentages may not total 100 due to rounding.

Table 2-6 provides a cross-tabulation of the occupations by levels of educational attainment. Forty percent of the DOE/NV work force hold college degrees. Over 35 percent of the total work force is categorized as professionals (engineers, scientists, analysts, etc.) of which over 75 percent hold a college degree.

Table 2-7 provides a cross-tabulation of the place of residence by place of work while Table 2-8 provides the cross tabulation distribution. Over 62 percent of respondents who live in Clark County work in Clark County while slightly over 29 percent of employees residing in Clark County work at DOE project sites in Nye County. Almost 88 percent of employees who live in Nye County work in Nye County.

Table 2-7. DOE in Nevada Respondent Place of Residence by Place of Work*

Place of Work	Clark County	Clark/Nye Counties	Nye County	Other	No Response	Total
Place of Residence						
Nevada Counties						
Clark	2,715	215	1,268	71	67	4,336
Lincoln	1	1	5	6	13	26
Nye	17	9	308	5	11	350
Other	0	0	6	16	1	23
Other States	18	1	25	1	2	47
Total Respondents	2,751	226	1,612	99	94	4,782
No Response	13	0	26	2	10	51
	2,764	226	1,638	101	104	4,833

* Cross tabulation distribution from survey questions 6 and 11 (see Appendix A).

Table 2-8. DOE in Nevada Respondent Place of Residence by Place of Work*

Place of Work	Clark County	Clark/Nye Counties	Nye County	Other	No Response	Total
Place of Residence						
Nevada Counties						
Clark	62.6%	5.0%	29.2%	1.6%	1.5%	100.0%
Lincoln	3.8%	3.8%	19.2%	23.1%	50.0%	100.0%
Nye	4.9%	2.6%	88.0%	1.4%	3.1%	100.0%
Other	0.0%	0.0%	26.1%	69.6%	4.3%	100.0%
Other States	38.3%	2.1%	53.2%	2.1%	4.3%	100.0%
Total Respondents	57.5%	4.7%	33.7%	2.1%	2.0%	100.0%

* Cross tabulation distribution from survey questions 6 and 11 (see Appendix A). Row percentages from data presented in Table 2-7.

Percentages may not total 100 due to rounding.

3.0 SUMMARY OF THE FINDINGS OF THE 1994 DOE/NEVADA EMPLOYEE SURVEY

This section summarizes four characteristics of the DOE/NV work force: occupational category, level of education, ownership of current residence, and total household income. Each table and associated figure for each of the four variables describe the DOE/NV workers who either reside in or have their permanent work place in Nevada. The distribution of the total DOE/NV worker responses and the associated percentages are shown for each characteristic.

The 1990 Census information that reports occupation, education, ownership of current residence, and total household income of the residents of Nevada also is presented. Thereby, the survey results can be compared directly with the 1990 Census.

Table 3-1 presents the occupational distribution of the DOE/NV work force in Nevada as compared to the 1990 Census. The occupations of officials/managers, professionals, and office/clerical account for 67.4 percent of the work force. The occupational category of professionals, which includes occupations such as engineers, physical scientists, and social scientists, accounts for 35.1 percent of the total work force. Figure 3-1 presents the percent distribution of the total DOE in Nevada work force by occupation in comparison to that of residents of Nevada as reported in the 1990 Census.

Table 3-1. Occupational Distribution, DOE/NV Workers and Nevada Residents*

Occupation	Nevada		Distribution (%)	
	Census	Survey	Census	Survey
Officials/Managers	70,564	622	11.6	13.0
Professionals	61,083	1,677	10.1	35.1
Technicians	19,035	553	3.1	11.6
Craft Workers	68,989	601	11.4	12.6
Operatives	45,315	95	7.5	2.0
Laborers	22,428	128	3.7	2.7
Service Workers	142,843	175	23.5	3.7
Office/Clerical	89,712	918	14.8	19.2
Other	87,468	8	14.4	0.0
Total Respondents	607,437	4,777	100.0	99.8
No Response		56		
Total		4,833		

*Survey question 9, data represent place of residence (survey question 11).

Census data from Summary Tape File 3A, U.S. Department of Commerce, Bureau of the Census. (1990)
 Percentages may not total 100 due to rounding.

Figure 3-1. Occupational Distribution Percentages, DOE/NV Workers and Nevada Residents

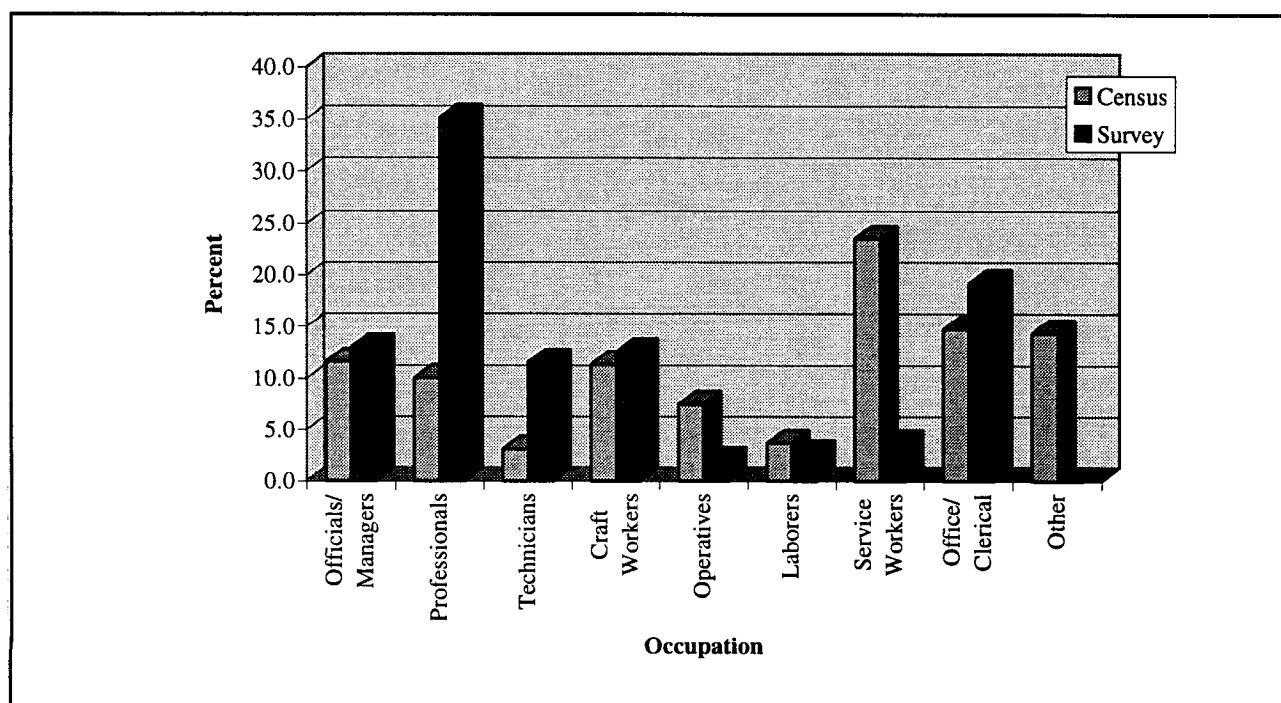


Table 3-2 presents the distribution of the educational attainment of DOE/NV and YMP workers whose residence or permanent work place is in Nevada as compared to the 1990 Census.

Figure 3-2 indicates that 80.4 percent of DOE in Nevada workers have at least some college education, and 45.1 percent have at least a bachelor's degree. Of the 1,920 workers with at least a bachelor's degree, 686 have a master's degree or above, which represents 16.1 percent of the total DOE in Nevada work force. The levels of educational attainment represented in Table 3-2 and Figure 3-2 are indicative of the scientific nature of DOE activities in Nevada.

The survey information on residential ownership presented in Table 3-3 indicates that 73.1 percent of the DOE/NV survey respondents are home owners. Table 3-3 also provides the comparison of the survey results for the DOE/NV workers who live in Nevada with the 1990 Census data for all Nevada residents. Whereas 73.1 percent of the survey respondents are home owners, 54.8 percent of the households in Nevada occupy homes they own.

Table 3-4 presents the distribution of household income as reported by the DOE/NV survey respondents compared to the 1990 Census. The DOE in Nevada workers were asked to identify one of nine income categories that most closely approximated their total household income. Four categories lie below \$45,000 to \$54,999 and four categories lie above this range. The four categories below \$45,000 include 34.3 percent of the survey households, while the four categories above \$54,999 represent 49.4 percent of the households. The category of \$45,000 to \$54,999 represents 16.3 percent of the households; therefore, 65.7 percent of the respondent households reported incomes greater than \$45,000.

Table 3-2. Educational Attainment, DOE/NV Workers and Nevada Residents*

Education	Nevada		Distribution (%)	
	Census	Survey	Census	Survey
No/Some high school	148,061	113	17.3	2.7
High school diploma	290,289	720	34.0	16.9
Some college	238,719	1,093	27.9	25.7
Associate degree	52,452	412	6.1	9.7
Bachelor's degree	83,864	1,236	9.8	29.0
Graduate degree	41,293	686	4.8	16.1
Total Respondents	854,678	4,260	100.0	100.0
Vocational/Technical School		542		
No Response		31		
Total		4,833		

*Survey question 10, data represent place of residence (survey question 11).

Census data from Summary Tape File 3A, U.S. Department of Commerce, Bureau of the Census. (1990)

Percentages may not total 100 due to rounding.

Figure 3-2. Educational Distribution Percentages, DOE/NV Workers and Nevada Residents

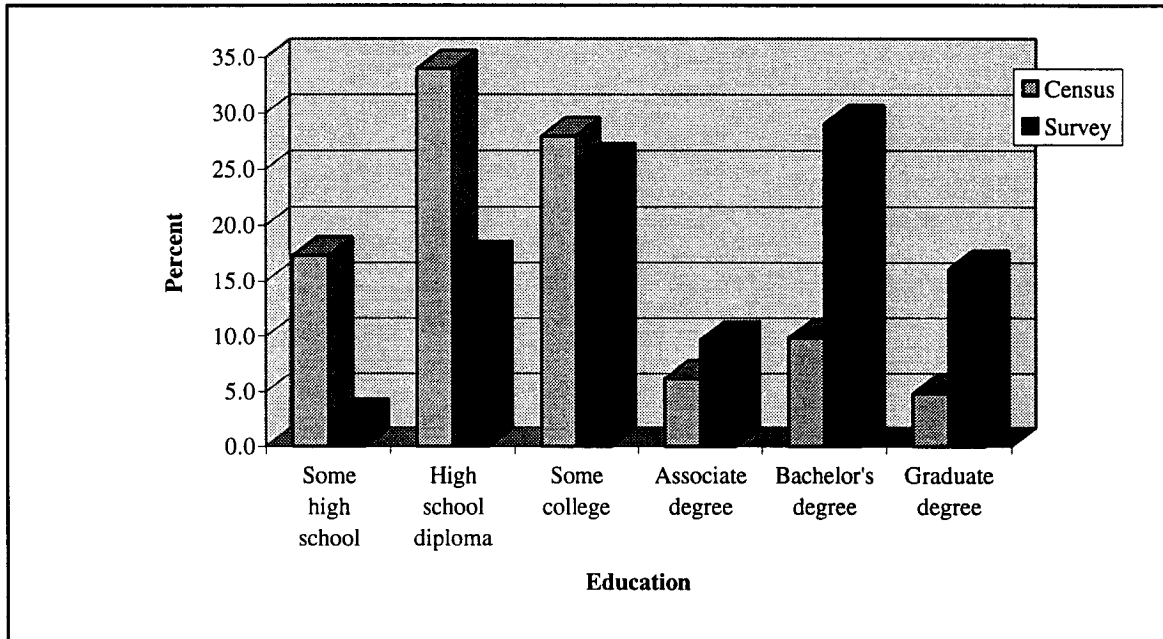


Table 3-3. Residential Ownership, DOE/NV Workers and Nevada Residents*

Ownership	Nevada		Distribution (%)	
	Census	Survey	Census	Survey
Yes	255,490	3,507	54.8	73.0
No	210,807	1,294	45.2	27.0
Total Respondents	466,297	4,801	100.0	100.0
No Response		32		
Total		4,833		

*Survey question 13.

Census data from Summary Tape File 3A, U.S. Department of Commerce, Bureau of the Census. (1990)
 Percentages may not total 100 due to rounding.

Figure 3-3. Residential Distribution Percentages, DOE/NV Workers and Nevada Residents

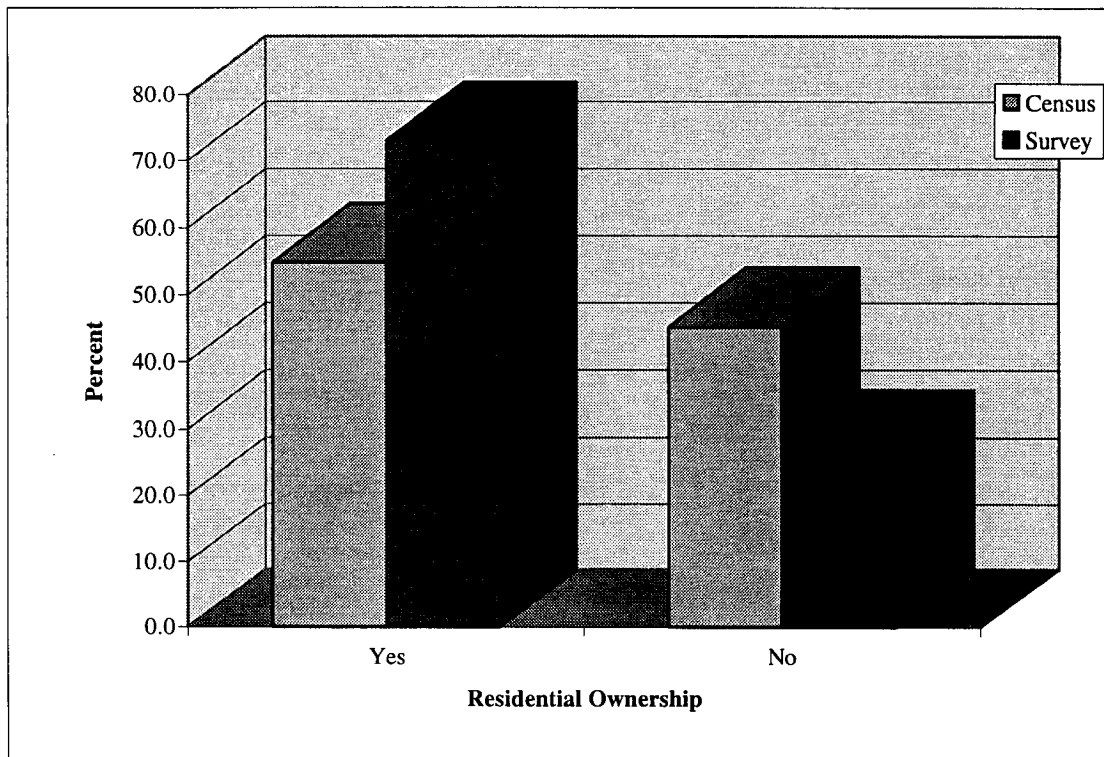


Table 3-4. Household Income, DOE/NV Workers and Nevada Residents*

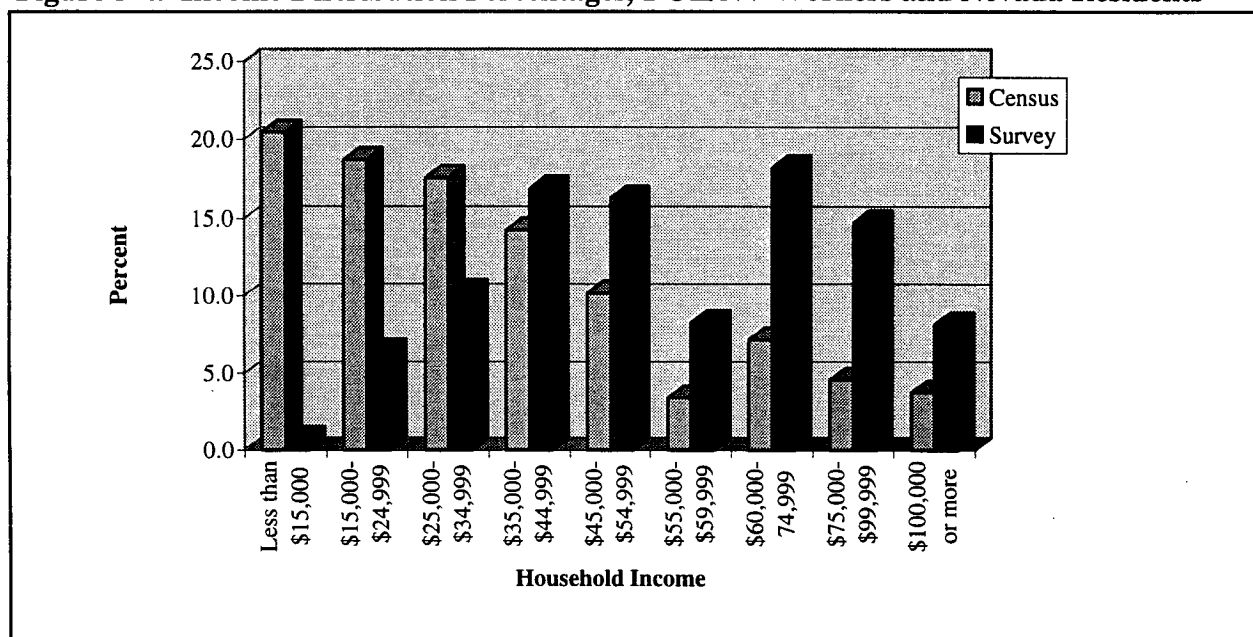
Income	Nevada		Distribution (%)	
	Census	Survey	Census	Survey
Less than \$15,000	95,655	36	20.5	0.8
\$15,000 to \$24,999	87,331	302	18.7	6.4
\$25,000 to \$34,999	81,926	481	17.5	10.2
\$35,000 to \$44,999	66,534	792	14.2	16.9
\$45,000 to \$54,999	47,670	764	10.2	16.3
\$55,000 to \$59,999	15,979	390	3.4	8.3
\$60,000 to \$74,999	33,462	855	7.2	18.2
\$75,000 to \$99,999	21,396	691	4.6	14.7
\$100,000 or more	17,560	383	3.8	8.2
Total Respondents	467,513	4,694	100.0	100.0
No Response		139		
Total		4,833		

*Survey question 16, data represent place of residence (survey question 11).

Census data from Summary Tape File 3A, U.S. Department of Commerce, Bureau of the Census. (1990)

Percentages may not total 100 due to rounding.

Figure 3-4. Income Distribution Percentages, DOE/NV Workers and Nevada Residents



APPENDIX A

U.S. DEPARTMENT OF ENERGY/NEVADA EMPLOYEE QUESTIONNAIRE

1994

U.S. Department of Energy/Nevada

EMPLOYEE QUESTIONNAIRE

Last year, the Yucca Mountain Site Characterization Office (YMSCO) of the U.S. Department of Energy (DOE) requested that each Yucca Mountain Site Characterization Project (YMP) worker complete a questionnaire designed to obtain some basic demographic characteristics of the work force. This year the survey effort has been expanded to include all DOE employees and DOE contractors in Nevada. We encourage you to take a few minutes to complete the survey and hope you will provide the same outstanding cooperation in this year's survey effort.

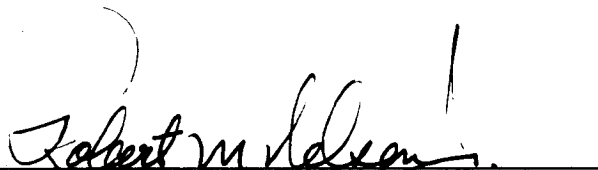
The compilation of this survey data provides a demographic profile of the DOE/Nevada work force that is not available from administrative records. The survey is conducted annually; therefore, changes in the work force can be carefully monitored. This information is an important link in the efforts made by the DOE in identifying potential economic and demographic effects that may result from activities related to the YMP and DOE/Nevada.

All information is kept strictly confidential and will only be reported in summary form. A copy of the final summary report(s) will be sent to the General Manager or Technical Project Officer of your organization.


Please read the questions carefully and answer them as accurately as possible.

When you have completed the questionnaire, please return it to the survey coordinator within your organization.

Thank you for your cooperation.



Robert M. Nelson, Jr.
Acting Project Manager
Yucca Mountain Site Characterization Office



Nick C. Aquilina
Manager
Nevada Operations Office

OMB Burden Disclosure Statement

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management Policy, Plans, and Oversight, Records Management Division, HR-422 - GTN, Paperwork Reduction Project (1910-1800), U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget (OMB), Paperwork Reduction Project (1910-1800), Washington, DC 20503.

The first set of questions relate to your employment with DOE or a DOE contractor.

1. Who is your current employer?

- | | | |
|----------------------------------------------------|---------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> CSC | <input type="checkbox"/> IT Corporation | <input type="checkbox"/> SAIC/QATSS |
| <input type="checkbox"/> Desert Research Institute | <input type="checkbox"/> Lawrence Berkeley | <input type="checkbox"/> SAIC/T&MSS |
| <input type="checkbox"/> DOE/NV | <input type="checkbox"/> Lawrence Livermore | <input type="checkbox"/> Sandia |
| <input type="checkbox"/> DOE/YMSCO | <input type="checkbox"/> Los Alamos | <input type="checkbox"/> TRW/M&O |
| <input type="checkbox"/> DNA | <input type="checkbox"/> PAI | <input type="checkbox"/> USGS |
| <input type="checkbox"/> EG&G | <input type="checkbox"/> RSN | <input type="checkbox"/> Wackenhut |
| <input type="checkbox"/> EPA | <input type="checkbox"/> REECo | <input type="checkbox"/> Other (specify) _____ |

2. Are you employed full time _____ part time _____ ? (Check one)

3. Do you currently work, or have you ever worked on/for the Yucca Mountain Site Characterization Project (YMP)?

- Yes (Please complete questions 3a-3d) No (Skip to Question number 4)

3a. During the previous 40 hour work week, how many of your working hours were charged to YMP activities? _____

3b. When did you first work on the YMP? Month _____ Year _____

3c. Have you worked on the YMP continuously since the date indicated in 3b? Yes No

If no, please indicate total YMP work experience. Years _____ Months _____

3d. Did you move to Nevada to work on the YMP? Yes No

4. Do you currently work, or have you ever worked on/for the DOE/NV & NTS?

- Yes (Please complete questions 4a-4d) No (Skip to Question number 5)

4a. During the previous 40 hour work week, how many of your working hours were charged to DOE/NV & NTS activities?

4b. When did you first work on the DOE/NV & NTS? Month _____ Year _____

4c. Have you worked on the DOE/NV & NTS continuously since the date indicated in 4b? Yes No

If no, please indicate total DOE/NV & NTS work experience. Years _____ Months _____

4d. Did you move to Nevada to work on the DOE/NV & NTS? Yes No

5. Have you recently been transferred (within the last 2 years) from NTS to YMP assignments?

- Yes No

6. Where do you currently report to work?

- Clark County Lincoln County
 Nye County Other (specify) _____
 Clark/Nye County

7. What mode of transportation do you generally use to get to your place of work? (Check all that apply)

- Private Vehicle Company/Gov't Vehicle
 Bus Bicycle
 Ride Share/Car Pool Other (specify) _____

8. From the following categories, please indicate your current labor status.

- Union Non-Union, Exempt Non-Union, Non-Exempt

The next series of questions relate to your occupation, education, and place and type of residence.

9. Which one of the following categories best describes your occupation?

- Officials and Managers
 Professionals (engineers, scientists, analysts, etc.)
 Technicians (computer programmers, surveyors, etc.)
 Craft Workers (mechanics, electricians, etc.)
 Operatives (blasters, truck drivers, etc.)
 Laborers (manual occupations, i.e., lifting, mixing, digging, etc.)
 Service Workers (firefighters, guards, etc.)
 Office/Clerical Workers
 Other (specify) _____

10. Please indicate your highest level of educational attainment and the major area of study for each college degree you have:

MAJOR AREA OF STUDY

- Some High School Associate degree _____
 High School Diploma/GED Bachelor's degree _____
 Some College MS/MA/MBA _____
 Vocational/Technical School PhD/JD/Ed.D or equivalent _____

11. Where do you currently live?

City/town _____ County _____
State _____ Zip _____

12. Which of the following best describes the type of housing unit you are currently living in?

- Multi-family (apartments and condominiums) Single-family, detached from any other house
 Mobile home or trailer Single-family, attached (Townhouse, Duplex, etc.)
 Other (specify) _____

13. Do you own your current residence ?

- Yes No

If yes, how long have you owned it? Years _____ Months _____

The final set of questions relate to the demographic characteristics of yourself and all members of your household.

14. Were you born in Nevada?

- Yes No

If no, when did you move to Nevada? Year _____ Month _____

15. Please indicate your age _____ and sex: Male Female

16. From the following, please indicate which category is the best approximation of your total **HOUSEHOLD** income.

- | | | |
|---------------------------------------------|--------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Less than \$15,000 | <input type="checkbox"/> \$35,000-\$44,999 | <input type="checkbox"/> \$60,000-\$74,999 |
| <input type="checkbox"/> \$15,000-\$24,999 | <input type="checkbox"/> \$45,000-\$54,999 | <input type="checkbox"/> \$75,000-\$99,999 |
| <input type="checkbox"/> \$25,000-\$34,999 | <input type="checkbox"/> \$55,000-\$59,999 | <input type="checkbox"/> \$100,000 plus |

17. **Please fill out one column for each member of your household, excluding yourself. (Check one)**

	Person 1	Person 2	Person 3	Person 4
How is this person related to you?	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____
If not related to you:	<input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Roommate <input type="checkbox"/> Other _____
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female
Age in years	_____	_____	_____	_____
If of working age (16-64), what is the employment status of this person?	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed
Does this person work for DOE/NV or an NTS contractor?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does this person work for the DOE/YMSCO or a YMP/contractor?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

If there are additional household members, please go to the next page.



17. Continued.

	Person 5	Person 6	Person 7	Person 8
How is this person related to you? If not related to you:	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____ <input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____ <input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____ <input type="checkbox"/> Roommate <input type="checkbox"/> Other _____	<input type="checkbox"/> Spouse <input type="checkbox"/> Son/Daughter <input type="checkbox"/> Other _____ <input type="checkbox"/> Roommate <input type="checkbox"/> Other _____
Sex	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Male <input type="checkbox"/> Female
Age in years	_____	_____	_____	_____
If of working age (16-64), what is the employment status of this person?	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input type="checkbox"/> Unemployed
Does this person work for DOE/NV or an NTS contractor?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does this person work for the DOE/YMSCO or a YMP/contractor?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Comments:

← Please unfold and answer questions 5 through 17.

APPENDIX B

SUPPORTING DATA

Table B-1. DOE/NVO and DOE Contractor Employment in Nevada: 1961-1994*

Year	Employment
1961	1732
1962	6900
1963	5679
1964	7710
1965	8022
1966	7708
1967	7648
1968	8200
1969	7714
1970	4909
1971	6118
1972	5253
1973	5147
1974	5498
1975	5274
1976	5207
1977	5169
1978	5498
1979	5143
1980	5794
1981	7128
1982	7508
1983	7780
1984	8631
1985	9372
1986	9239
1987	9908
1988	9415
1989	9563
1990	9152
1991	8897
1992	8794
1993	7704
1994	7016

*DOE employment figures were taken from July of each year. The figure for 1965 is an estimate.

Table B-2. Occupational Distribution of Respondents by DOE in Nevada Projects*

Occupation	DOE/NV & NTS	YMP	DOE/NV & NTS and YMP	Other	Total
Officials and Managers	331	157	47	87	622
Professionals	895	469	127	186	1,677
Technicians	356	66	50	81	553
Craft Workers	425	21	73	82	601
Operatives	59	8	12	16	95
Laborers	77	11	14	26	128
Service Workers	137	8	4	26	175
Office/Clerical	310	202	56	350	918
Others	5	1	0	2	8
Total Respondents	2,595	943	383	856	4,777
No Response	13	17	3	23	56
	2,608	960	386	879	4,833

* Cross tabulation distribution from Table 2-1 and survey question 9 (see Appendix A).

Table B-3. Labor Status of Respondents by DOE in Nevada Projects*

Labor Status	DOE/NV & NTS	YMP	DOE/NV & NTS and YMP	Other	Total
Union	659	47	104	97	907
Non-union, exempt	1,347	608	186	399	2,540
Non-union, non-exempt	538	265	87	350	1,240
Total Respondents	2,544	920	377	846	4,687
No Response	64	40	9	33	146
	2,608	960	386	879	4,833

* Cross tabulation distribution from Table 2-1 and survey question 8 (see Appendix A).

Table B-4. Occupational Distribution of Respondents by Labor Status*

Occupation	Union	Non-Union Exempt	Non-Union Non-Exempt	No Response	Total
Officials and Managers	4	588	19	11	622
Professionals	2	1,472	156	47	1,677
Technicians	21	216	293	23	553
Craft Workers	536	18	38	9	601
Operatives	90	0	4	1	95
Laborers	103	8	15	2	128
Service Workers	132	25	14	4	175
Office/Clerical	3	194	689	32	918
Others	5	2	1	0	8
Total Respondents	896	2,523	1,229	129	4,777
No Response	11	17	11	17	56
	907	2,540	1,240	146	4,833

* Cross tabulation distribution from survey questions 8 and 9 (see Appendix A).

Table B-5. Occupational Distribution of Respondents by Educational Attainment*

Occupation	Bachelor's Degree	MS/MA/ MBA	Phd/JD/ Ed.d	High School Some College Vocational	No Response	Total
Officials and Managers	212	140	31	239	0	622
Professionals	810	383	105	374	5	1,677
Technicians	100	14	0	439	0	553
Craft Workers	17	0	0	580	4	601
Operatives	0	0	0	95	0	95
Laborers	4	0	0	120	4	128
Service Workers	13	2	0	156	4	175
Office/Clerical	72	6	3	833	4	918
Others	0	0	0	8	0	8
Total Respondents	1,228	545	139	2,844	21	4,777
No Response	8	2	0	36	10	56
	1,236	547	139	2,880	31	4,833

* Cross tabulation distribution from survey questions 9 and 10 (see Appendix A).