

NEVADA STATE WATER PLAN APPENDICES

March 1999



Nevada Division of Water Planning
Department of Conservation and Natural Resources

Notes to the Reader

The *Nevada State Water Plan* is published in five volumes including a summary, three parts of background information, forecasts and water-related issues, and supporting appendices. The following is a listing of all volumes of the plan and a brief summary of each volume's contents:

SUMMARY

Executive Summary, purpose and governing directive, water plan organization and contents, brief summary of water planning and management issues, with all of the recommendations, a glossary of terminology and a glossary of abbreviations and acronyms

PART 1 — BACKGROUND AND RESOURCE ASSESSMENT

Introduction, guidelines for the State Water Plan, the institutional framework for water planning and management in Nevada, water resources background, socioeconomic background, glossary of terminology (for Part 1), glossary on selected agencies and organizations, glossary on selected water-related decrees, agreements and operating criteria, and abbreviations and acronyms

PART 2 — WATER USE AND FORECASTS

Historic and current water use, socioeconomic assessment and forecasts, water use assessment and forecasts, meeting our future water supply needs, and a glossary of terminology (for Part 2)

PART 3 — WATER PLANNING AND MANAGEMENT ISSUES

Issue papers in the areas of water supply and allocation, water quality, resource conservation and recreational uses, flood management, and water planning and management, and a glossary of terminology (for Part 3)

APPENDICES

Appendix 1 – Water use data, analysis and the development of water use factors for the years 1985, 1990, 1995; **Appendix 2** – Population estimates, forecasts and analysis; **Appendix 3** – Population and employment forecasts for municipal and industrial (M&I), domestic (residential) and commercial and industrial water withdrawals; **Appendix 4** – Forecasts of Nevada and county irrigated acreage; **Appendix 5** – Water withdrawal forecast summaries; **Appendix 6** – Nevada and county socioeconomic overviews (incorporated by reference)

Should you have any questions or comments concerning this water plan, or wish additional information in regards to the data used in this publication, please contact us at the address below. The *Nevada State Water Plan* is also available on the Internet at the web site address listed below.

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**Kenny C. Guinn, Governor
STATE OF NEVADA**



NEVADA STATE WATER PLAN APPENDICES

MARCH 1999

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Nevada Division of Water Planning

**Nevada State Water Plan
APPENDICES**

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Appendix 5 — Nevada and County Water Withdrawal Forecast Summaries

Appendix 6 — State and County Socioeconomic Overviews [Incorporated by Reference]

Nevada Division of Water Planning

Introduction

The *Appendices* of the *Nevada State Water Plan* contains technical and detailed information that constitutes the basis of socioeconomic and water use analysis and may prove useful in better understanding the development of both the socioeconomic and water withdrawal forecasts. While the text of the water plan deals primarily with statewide water use and socioeconomic data, the appendices contain all the detailed county data, analysis and forecasts from which the statewide figures were derived. All forecasts for Nevada's future water use and socioeconomic trends were prepared on a county basis and then aggregated up to the state level. No unique statewide forecasts were prepared.

Appendix 1, State and County Water Use Data, 1985, 1990, 1995, contains all the source data used in deriving water use and other forecasts for the state water plan. The water use coefficients and related forecast factors for each county and the total state are summarized at the beginning of Appendix 3.

Appendix 2, State and County Population Estimates, Forecasts and Analysis, presents population estimates, population shares and growth rate analysis for the years 1950 through 1997 and population forecasts out to the year 2020 for all the counties and the total state. The population forecasts in this section constitute the underpinning of the water use forecasts developed in the plan.

Appendix 3, State and County Population and Employment Forecasts, presents the employment forecasts derived from the population forecasts, as well as a number of water use forecasts.

Appendix 4, State and County Forecasts of Irrigated Acreage, contains historical and forecasted irrigated acreage for each county and the total state. These irrigated acreage forecasts are then used in developing the forecasts for irrigation and livestock water withdrawals.

Appendix 5, State and County Water Withdrawal Forecast Summaries, presents summary tables of all the forecasted water use categories for each county and the total state.

Appendix 6, State and County Socioeconomic Overviews, is not included here but is incorporated by reference. It includes individual socioeconomic overviews for the 17 Nevada counties and the total state. Each 55-page document (80 pages for the Nevada Socioeconomic Overview) provides a broad assessment of each county's historic, geographic, hydrologic, water use and socioeconomic trends and conditions, and constitutes an integral part of the forecasts incorporated into the state water plan.

Nevada Division of Water Planning

**State Agencies and Agency Representatives
Involved in the Nevada State Water Plan**

STATE OF NEVADA

Kenny C. Guinn Governor

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

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This plan was prepared by

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Nevada Division of Water Planning

**Members of the Advisory Board on
Water Resources Planning and Development**

(Nevada Revised Statute 540.111)

Six Members Representing Governing Bodies of the County with the Largest Population in the State and the Cities in that County:

Kenneth A. Albright, Manager Field Operations, City of North Las Vegas
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Phillip T. Henry, City Engineer, City of Boulder City
Richard B. Holmes, Board Chairman, Assistant County Manager, Clark County
Kurt R. Segler, Utility Services Manager, City of Henderson
Vacant, City of Las Vegas

One Member Representing the Largest Water Utility in the County with the Largest Population in the State:

Nick Braybrooke, Director of Resources, Las Vegas Valley Water District (LVVWD)

Two Members Representing the County with the Second Largest Population in the State and the Cities in that County:

Paul C. Neuffer, Construction and Land Development
Ed Schmidt, Director, Washoe County Department of Water Resources

One Member Representing the Largest Water Utility in the County with the Second Largest Population in the State:

Janet R. Carson, Board Vice Chairperson, Water Resources Supervisor, Sierra Pacific Resources

One Member Representing the General Public:

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Farming – **Eddie R. Snyder**, Owner, Snyder Ranch, Yerington, Lyon County
Mining – **Andy B. Wallace**, Cordex Exploration Company
Ranching – **Jack L. Boyd**, Owner, Boyd Ranch, Elko County
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Nevada State Water Plan

Appendix 1 – Nevada Water Use Data and Analysis – 1985, 1990, 1995

A. WATER ANALYSIS AND FORECASTS FACTOR DEVELOPMENT

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Table 2 – Public Supplied Water Use

Table 3 – Self-Supplied and Other Water Uses

Table 4 – Domestic, M&I, and Total Water Use per Capita

Table 5 – Domestic and Commercial & Industrial Water Uses

Table 6 – Livestock and Irrigation Water Uses

Table 7 – Irrigation Water Use Analysis

Table 8 – Irrigation and Farm Marketings Analysis

Table 9 – Commercial, Industrial, Thermoelectric and Mining Water Uses

Table 10 – Water Usage Rate Analysis

Table 11 – Household Water Usage Rate Analysis

Table 12 – Water Use by Category Share Analysis

B. WATER WITHDRAWAL DATA TABLES:

Table 1 – Public Supply Water Use

Table 2 – Commercial Water Use

Table 3 – Domestic Water Use

Table 4 – Industrial Water Use

Table 5 – Thermoelectric Power Water Use

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Table 7 – Livestock Water Use

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Appendix 1A

WATER ANALYSIS AND FORECAST FACTOR DEVELOPMENT TABLES

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[1] Nevada Water Use Summary

1995

Water Withdrawals by Principal Category of Use (Acre-Foot per Year)

Rev. 11/23/98

County and County Code	Total Water Withdrawals All Uses	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermoelectric Water Withdrawals	Total Mining Water Withdrawals	Livestock Water Withdrawals	Irrigation Water Withdrawals
Carson City..... CC	20,937	7,095	1,221	1,059	0	0	11	10,710
Churchill..... CH	266,300	3,457	1,120	302	22,963	179	672	256,553
Clark..... CL	408,337	240,709	11,993	9,073	25,007	2,386	280	40,292
Douglas..... DG	205,956	10,523	3,991	302	0	0	258	189,544
Elko..... EL	956,593	11,563	7,942	0	0	5,254	1,703	931,643
Esmeralda..... ES	62,809	397	45	0	0	12,615	122	49,687
Eureka..... EU	244,422	425	67	0	4,037	114,349	157	124,539
Humboldt..... HI	586,583	4,454	651	560	3,726	26,640	627	590,645
Lander..... LA	198,983	1,353	146	0	0	35,398	336	161,362
Lincoln..... LI	615,016	1,255	364	0	0	0	123	613,537
Lyon..... LY	525,076	4,171	3,265	4,929	1,400	2,565	443	509,936
Mineral..... MI	19,714	1,153	280	0	0	7,520	34	13,582
Nye..... NY	76,613	3,785	784	0	0	7,595	739	60,253
Pershing..... PE	171,216	1,342	414	0	0	2,106	156	115,962
Sorensen..... ST	3,632	340	67	0	1,828	238	0	1,008
Washoe..... WA	213,983	57,382	20,689	3,002	6,063	715	291	121,539
White Pine..... WP	99,803	3,384	246	0	0	11,560	269	84,187
NEVADA..... NV	4,041,587	360,710	153,136	19,223	65,450	174,434	6,329	3,113,585

Table Notes:

(1) "Water Use" and "Water Withdrawals" are equivalent terms, but do not include ground water use; for instance, for return flows.

(2) "Total Water Withdrawal All Uses" includes all withdrawals both public supplied and self-supplied. Also includes public use and losses presented in Table 2 and relating to municipal and non-manufacturing uses listed in Table 1.

(3) Total Domestic, Commercial, Industrial, and Thermoelectric water withdrawals include both public supplied and self-supplied water use; Total Mining water Withdrawals includes both commercial use (i.e., on-site) and self-supplied (i.e., from development).

(4) One acre-foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS), U.S. Department of Agriculture (USDA), Nevada Agricultural Experiment Station; Nevada Division of Water Planning (NDWP)

[2] Nevada Public Supplied Water Use

1995

Public Supplied Water Withdrawals by Principal Use (Acre-Feet per Year)

Rev. 10/23/98

County and County Code	Population Served by Public Supplied Water (Persons)	Total Public Supplied Water	Domestic Public Supplied Water	Commercial Public Supplied Water	Industrial Public Supplied Water	Thermo-Electric Public Supplied Water	Public Use and Losses	Public Supplied Water Use Per Person (Gallons/Day)	
Carson City.....	CC	42,182	9,345	6,403	1,310	829	0	810	197.7
Churchill.....	CH	12,922	3,573	3,141	95	34	0	1,053	246.9
Clark.....	CL	1,014,867	379,921	243,109	102,684	1,221	1,624	32,285	334.3
Douglas.....	DO	32,123	11,078	9,596	1,195	0	0	317	306.0
Elko.....	EL	40,131	4,926	10,888	2,677	0	0	1,355	331.7
Esmeralda.....	ES	1,132	302	213	45	0	0	45	238.1
Esque.....	ES	1,177	426	125	67	0	0	34	322.9
Henderson.....	HO	10,752	4,201	3,047	773	0	0	381	248.8
Lander.....	LA	5,176	1,423	1,109	146	0	0	168	245.4
Lincoln.....	LI	3,211	1,550	1,052	330	0	0	138	450.0
Lyon.....	LY	24,350	3,736	3,853	1,165	36	0	672	210.7
Mineral.....	MI	5,291	1,255	930	280	0	0	43	211.7
Nye.....	NY	15,730	6,127	4,077	673	0	0	1,378	367.7
Pershing.....	PE	4,539	1,736	1,194	403	0	0	134	341.5
Storey.....	ST	2,028	325	221	67	0	0	34	143.0
Washoe.....	WA	262,809	79,385	33,322	17,441	314	0	4,308	269.7
White Pine.....	WP	8,995	1,551	1,047	246	0	0	258	352.4
NEVADA.....	NY	1,487,636	524,861	342,605	129,767	2,453	1,624	48,472	315.0

Value Notes:

- (1) "Water Use" and "Water Withdrawals" are equivalent unless noted. The same is true for electric use; do not assume the same is true.
- (2) Population is for those who are county residents served by public water systems only.
- (3) "Total Public Supplied Water" includes water supplied by public water supply providers including public use and industrial use of system water. Also, it does not include municipal and industrial or M&I water use.
- (4) One acre-foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS) Nevada Inventory of Water Planning (NIVWP)

[3] Nevada Self-Supplied and Other Water Uses

1995

Self-Supplied, Mining, Livestock, Irrigation Water Use (Acro-Fect per Year)

Rev. 11/23/98

County and County Code	Total Water Withdrawals All Uses	Total Public-Supplied Water	Domestic Self-Supplied Water	Commercial Self-Supplied Water	Industrial Self-Supplied Water	Thermo-Electric Self-Supplied Water	Mining Water Withdrawals Consumptive Use Only	Livestock and Irrigation Water Withdrawals
Carson City..... CC	20,932	9,345	674	11	224	0	0	11,292
Churchill..... CI	286,309	3,579	1,306	78	269	22,063	179	257,225
Clark..... CL	468,153	379,921	4,606	9,208	7,852	23,713	2,986	90,572
Douglas..... DG	293,956	11,078	947	1,826	303	0	0	189,802
Elko..... EL	956,573	14,920	707	5,265	0	0	5,154	930,347
Fernando..... FS	62,809	362	84	0	0	0	12,693	49,810
Fernando..... FC	24,422	426	106	0	0	4,637	19,282	125,016
Hendoldt..... HU	686,582	4,201	1,407	78	560	3,226	15,077	680,452
Lander..... LA	398,583	1,424	244	0	0	0	7,550	381,713
Lincoln..... LI	67,516	1,550	273	24	0	0	0	65,660
Lyon..... LY	325,656	5,746	318	2,909	4,871	1,400	2,565	317,374
Mineral..... MI	19,714	1,255	223	0	0	0	2,530	15,716
Nye..... NY	76,615	6,127	1,708	12	0	0	7,057	60,679
Pending..... PF	121,216	1,736	143	11	0	0	2,196	117,226
Storey..... ST	3,532	325	116	0	0	1,526	258	1,008
Washoe..... WA	218,983	79,385	5,069	3,248	2,688	6,060	717	121,804
White Pine..... WP	99,803	3,551	246	0	0	0	11,350	84,436
NEVADA..... NV	4,041,597	524,861	18,105	23,478	16,709	63,826	89,164	3,119,914

Table Value

- (1) "Water Use" and "Water Withdrawals" are considered equal. However, they are not always equal because of net natural infiltration flows.
- (2) "Total Public-Supplied Water" includes domestic, commercial, industrial, and manufactured gas water supplied by public water supply agencies.
- (3) "Total Self-Supplied Water" is water from a bore well or other private water system having a limited use and/or a limited number of customers.
- (4) Mining water withdrawals include means and pipeline use. Do not include drilling.
- (5) One acre-foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS), U.S.D., Nevada, and National Statistics Service, Nevada Division of Water Planning (NDWP).

[4] Nevada Domestic, M&I, and Total Water Use per Capita

1995

Domestic Public and Self Supplied, M&I, Adjusted M&I, Total Use (Gallons/Day)

Rev. 11/23/98

County and County Code		Total Nevada and County Resident Population (Persons)	Population Served by Public Supplied Water (Persons)	Percent of Population Served by Public Supply Water Systems	Domestic Public Supplied Water Use per Person (Gallons/Day)	Domestic Self Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial (M&I) Public Supplied Water Use per Person (Gallons/Day)	Public and (Partial) Self Supplied Water Use per Person (Gallons/Day)
Carson City.....	CC	45,770	42,182	92.2%	136.8	123.3	197.7	216.1
Churchill.....	CH	21,640	12,922	59.7%	148.6	133.7	246.0	409.8
Clark.....	CL	1,006,290	1,014,867	97.9%	213.0	191.7	354.3	353.3
Douglas.....	DG	15,880	32,123	90.1%	264.2	257.7	306.0	300.9
Elko.....	EL	43,050	10,151	23.6%	242.1	217.7	251.7	464.5
Esmeralda.....	ES	1,630	1,133	69.5%	167.7	150.0	238.3	204.5
Eureka.....	ET	1,580	1,177	74.5%	246.4	321.5	322.9	308.7
Humboldt.....	HU	16,270	10,732	66.0%	353.0	287.6	348.8	515.6
Lackawanna.....	LA	6,440	5,170	80.4%	191.3	172.3	215.4	287.4
Linenoth.....	LI	4,130	3,211	78.0%	300.8	271.1	430.9	516.3
Lyon.....	LY	26,580	24,350	91.6%	141.3	127.3	210.7	301.7
Mahoning.....	ME	6,300	5,291	84.0%	156.9	141.3	211.7	249.3
Nye.....	NY	23,090	15,530	67.3%	211.4	208.3	147.7	431.0
Perkins.....	PE	5,140	4,519	88.1%	215.7	232.4	341.5	371.8
Sevier.....	SE	3,200	2,038	63.7%	98.6	88.4	143.0	194.1
Washoe.....	WA	291,050	262,809	90.3%	177.7	160.0	269.7	207.0
White Pine.....	WP	9,770	8,995	92.1%	102.4	171.9	152.4	375.8
NEVADA.....	NY	1,579,150	1,487,636	94.2%	205.6	176.6	313.0	380.0

Table Notes:

- (1) "Water Use" and "Water Withdrawals" are equivalent terms, but are not the same as consumption (i.e., do not account for return flows).
- (2) "Domestic Public Supplied Water Use per Person (Gallons/Day)" equals public supplied water use divided by population served by public supply systems.
- (3) "Domestic Self-Supplied Water Use per Person (Gallons/Day)" equals self-supplied water use divided by persons served by self-supplied systems.
- (4) "Municipal and Industrial Water Use per Person (Gallons/Day)" is based on public supplied water and population served by public supply water systems.
- (5) "Public and (Partial) Self-Supplied Water Use per Person (Gallons/Day)" is based on both public supplied water (i.e., M&I water use) and self-supplied water (domestic, commercial, and industrial separately, divided by the total population). Does not include domestic water use and industrial water use.

Source: U.S. Geological Survey (USGS), USGS Nevada Agricultural Statistics Service; Nevada State Demographer.



[5] Nevada Domestic and Commercial & Industrial Water Uses

1995

Domestic, Commercial & Industrial Water Use (Acro-Foot/Year and Gallons/Day)

Rev. 11/23/98

County and County Code	Total Domestic Water Withdrawals	Domestic Commercial Water Use	Domestic Consumption Use or Percent of Withdrawals	Total Domestic Water Use per Person (Gallons/Day)	Total Commercial and Industrial Water Withdrawals	Commercial and Industrial Commercial Water Use	Commercial Consumption Use or Percent of Withdrawals	Commercial and Industrial Water Use per Worker (Gallons/Day)
Carson City..... CC	7,096	1,550	50.3%	137.5	2,274	313	13.8%	77.4
Churchill..... CH	3,457	1,739	50.3%	142.6	1,423	325	22.8%	182.7
Clark..... CL	246,709	121,152	49.9%	717.5	121,065	21,298	19.2%	215.3
Hongos..... HS	10,513	5,268	50.1%	761.6	5,293	370	11.2%	152.5
Elko..... EL	11,595	1,046	49.9%	210.4	7,042	560	7.1%	366.0
Esmeralda..... ES	297	153	51.5%	162.6	45	11	25.0%	174.2
Eureka..... EU	125	206	48.8%	240.0	67	11	16.7%	13.3
Humboldt..... HU	4,454	2,215	49.7%	244.4	1,411	325	23.0%	168.3
Lander..... LA	1,353	691	51.1%	187.6	146	34	23.3%	53.7
Lincoln..... LI	1,381	671	49.3%	294.3	464	94	24.9%	211.5
Lynn..... LY	5,171	7,087	56.0%	140.1	8,891	1,680	18.0%	1,120.0
Mason..... MI	1,151	582	50.6%	153.6	250	56	20.0%	96.7
Nye..... NY	5,765	2,745	47.6%	274.1	754	358	47.5%	83.4
Pershing..... PE	1,342	689	51.3%	333.0	474	56	11.8%	196.2
Storey..... ST	340	170	50.0%	64.9	67	11	16.7%	82.9
Washoe..... WA	57,582	28,000	50.0%	176.0	25,691	4,492	19.0%	129.5
White Pine..... WP	3,283	1,624	49.6%	100.0	246	56	22.7%	52.0
NEVADA..... NV	360,710	190,857	49.9%	203.9	172,407	51,958	30.2%	196.2

Table Notes:

- (1) "Water Use" and "Water Withdrawals" are equivalent terms. In terms of the county, they represent the same amount regardless of source.
- (2) "Total Domestic Water Withdrawals" and "Total Commercial and Industrial Water Withdrawals" include both public supply and self-supplied water.
- (3) "Total Domestic Water Use per Person (Gallons/Day)" = "Total Domestic Water Withdrawals" divided by resident population, rounded in gallons per day.
- (4) "Commercial and Industrial Water Use per Worker (Gallons/Day)" equals "Total Commercial and Industrial Water Withdrawals" divided by covered employment, rounded in gallons per worker per day.
- (5) Data were rounded up or down to the nearest whole number.

Source: U.S. Geological Survey (2008).

[6] Nevada Livestock and Irrigation Water Uses

Livestock and Irrigation Water Use Analysis (Acre-Feet per Year)

1995

Rev. 11/2/98

County and County Code	Livestock Water Withdrawals	Livestock Consumptive Use as Percent of Withdrawals	Livestock Consumptive Use as Percent of Withdrawals	Total Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use as Percent of Irrigation Withdrawals	Total Livestock and Irrigation Water Withdrawals	Total Livestock and Irrigation Water Use as Percent of Total Withdrawals
Carson City..... CC	11	0	0.0%	10,710	4,952	46.0%	10,721	51.2%
Churchill..... CH	692	238	38.4%	250,554	117,890	46.0%	257,225	89.8%
Clark..... CL	280	202	71.0%	40,292	28,771	71.4%	40,572	8.7%
Douglas..... DG	258	134	52.2%	189,544	85,565	45.1%	189,802	91.1%
Elko..... EL	1,703	673	39.5%	908,643	404,897	31.2%	910,347	97.2%
Fernando..... FR	123	67	54.5%	49,687	31,264	62.8%	49,810	99.3%
Eschscholtz..... ES	157	67	42.9%	124,859	72,903	58.4%	125,016	51.9%
Humboldt..... HU	627	224	35.7%	589,845	113,687	52.0%	600,472	87.3%
Lander..... LA	336	123	36.7%	161,382	35,694	53.1%	161,718	81.3%
Lisianski..... LI	123	34	27.5%	65,537	42,980	65.6%	65,660	97.3%
Lyon..... LY	448	146	32.5%	306,926	141,005	45.9%	307,374	94.6%
Mineral..... MI	34	34	100.0%	15,682	9,253	46.3%	15,716	99.3%
Nye..... NY	739	67	9.1%	60,233	19,383	65.4%	60,473	79.6%
Pershing..... PE	258	78	30.4%	116,962	62,405	53.4%	117,220	96.3%
Storey..... ST	0	0	--	1,008	560	55.6%	1,008	28.5%
Washoe..... WA	291	123	42.5%	131,399	61,241	46.6%	131,624	55.6%
White Pine..... WP	269	90	33.3%	84,187	32,709	52.6%	84,456	84.6%
NEVADA..... NV	6,329	2,319	56.6%	3,113,585	1,612,080	51.8%	3,119,914	77.2%

Table Notes:

(1) "Water Use" and "Water Withdrawal" are equivalent in this table for the state as a whole per acre. To an extent to be determined.

(2) One acre-foot is equivalent to 123,348 gallons.

Sources: U.S. Geological Survey (USGS); USDA, Nevada and National Statistics Service; Nevada Division of Water Planning (NDWP).



[7] Nevada Irrigation Water Use Analysis

1995

Irrigation Water Withdrawals, Consumptive Use, Conveyance Losses, and Water Duty
(Acre-Feet per Year and Acre-Feet per Acre per Year)

Rev. 11/21/98

County and County Code	Total Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use as Percent of Irrigation Withdrawals	Irrigation Conveyance Losses	Conveyance Losses as Percent of Irrigation Withdrawals	Total Irrigated Acreage (Acres)	Irrigation Water Withdrawal Rate (Acre-Feet per Acre per Year)	Irrigation Conveyance Losses (Acre-Feet per Acre per Year)
Carson City..... CC	10,910	4,932	46.0%	3,165	29.6%	2,451	4.4	1.2
Churchill..... CI	756,533	117,890	16.0%	74,692	29.1%	56,091	4.6	1.3
Clerk..... CL	40,792	28,771	71.4%	7,718	5.5%	7,755	5.2	0.4
Douglas..... DG	189,744	85,565	45.1%	56,746	29.9%	38,643	4.9	1.5
Ecco..... E	908,645	464,897	51.2%	196,391	21.6%	213,935	4.2	0.9
Esmeralda..... ES	49,689	31,204	62.8%	5,121	10.3%	11,286	4.4	0.5
Elko..... EL	124,839	72,903	58.4%	17,743	14.2%	32,780	3.8	0.5
Humboldt..... HU	599,345	313,087	52.4%	117,620	19.6%	142,556	4.2	0.5
Lander..... LA	161,382	85,697	53.1%	38,680	19.0%	35,192	4.5	0.8
Lyon..... LY	65,537	42,980	65.6%	4,378	6.6%	15,629	4.2	0.2
Lyon..... LY	306,926	141,005	45.9%	91,713	29.9%	59,975	5.0	1.5
Mineral..... MI	13,682	7,253	46.4%	4,565	29.1%	2,900	5.5	1.6
Nye..... NY	60,243	39,383	65.4%	6,064	10.1%	17,712	4.1	0.4
Pershing..... PE	26,962	17,405	64.5%	2,823	10.5%	21,368	4.3	0.8
Storey..... ST	1,006	560	55.7%	336	33.3%	700	3.4	1.1
Washoe..... WA	121,511	60,211	49.6%	31,909	26.3%	27,048	4.5	1.1
White Pine..... WP	84,187	52,709	62.6%	8,979	10.7%	24,839	3.4	0.6
NEVADA..... NV	3,115,585	1,612,050	51.8%	672,415	21.6%	715,439	4.4	0.9

Units: Acre-Feet

- (1) "Average Annual Irrigation Withdrawals" is equal to the sum of water withdrawn for consumptive use. It is not possible to determine this value.
- (2) "Average Water Withdrawal Rate (Acre-Feet per Acre per Year)" is calculated by dividing "Total Irrigation Water Withdrawals" by "Total Irrigated Acreage."
- (3) "Average Conveyance Losses (Acre-Feet per Acre per Year)" is calculated by dividing "Irrigation Conveyance Losses" by "Total Irrigated Acreage."
- (4) One acre-foot is equal to 325,851 gallons.

Source: U.S. Geological Survey (USGS) 1992 Nevada Agricultural Waterways Service, Nevada Division of Water Planning (NDWP)

[8] Nevada Irrigation and Farm Marketings Analysis

1995

Irrigated Acreage, Irrigation Water Withdrawals, and Value of Farm Marketings

(Acres, Acre-Feet per Year, Acre-Feet per Acre per Year, and Dollars)

Rev 11/20/98

County and County Code	Estimated Total Irrigated Acreage (Acres)	Percent of Total State	Irrigation and Livestock Water Withdrawals (AF/Year)	Percent of Total State	Livestock and Irrigation Water Use (Acre-Feet per Acre per Year)	Value of Total Farm Marketings (\$000s)	Value of Farm Marketings per Acre-Feet (Dollars)	Value of Farm Marketings per Irrigated Acre (Dollars)
Carson City..... CC	2,431	0.34%	10,721	0.34%	4.4	\$669	862	\$275
Churchill..... CH	56,694	7.84%	257,225	8.34%	4.6	33,791	131	612
Clark..... CL	7,755	1.08%	40,572	1.30%	5.2	26,072	495	2,588
Douglas..... DG	58,640	8.40%	189,802	6.08%	4.9	10,725	37	278
Elko..... EL	213,503	29.90%	910,547	29.18%	4.2	49,527	45	189
Eureka..... ES	11,236	1.58%	49,810	1.60%	4.4	6,574	133	584
Esmeralda..... EM	32,780	4.58%	125,016	4.01%	3.8	9,832	79	300
Humboldt..... HU	142,558	19.93%	600,472	19.25%	4.2	50,409	84	354
Lander..... LA	36,192	5.00%	161,718	5.16%	1.5	7,063	11	191
Lyon..... LY	15,629	2.13%	63,660	2.10%	4.2	8,719	125	526
Mason..... MA	60,975	8.52%	303,974	9.85%	5.0	47,563	153	780
Mineral..... MI	2,960	0.41%	13,715	0.40%	5.4	3,476	158	854
Mojave..... MO	14,742	2.06%	60,973	1.95%	4.1	13,081	215	887
Nye..... NY	27,368	3.83%	117,220	3.76%	4.3	25,246	215	922
Ormsby..... OL	300	0.04%	1,908	0.06%	3.4	0	0	0
Washoe..... WA	27,048	3.78%	121,824	3.93%	4.5	13,763	113	509
White Pine..... WP	24,839	3.47%	84,456	2.71%	3.4	8,022	95	323
NEVADA..... NV	715,439	100.00%	3,149,914	100.00%	4.4	\$298,085	\$96	\$417

Table Notes:

(1) "Water Use" and "Water Withdrawals" are reported in acre-feet on the basis of calendar year; do not account for carry-over.

(2) "Livestock and Irrigation Water Use (acre-feet per Acre per Year)" calculated by dividing the "Irrigation and Livestock Water Withdrawals" by the "Estimated Irrigated Acreage."

(3) "Value of Farm Marketings per Acre-Feet and per Irrigated Acre (Dollars)" calculated by dividing the "Value of Total Farm Marketings" by either "Irrigation and Livestock Water Withdrawals" or by "Estimated Total Irrigated Acreage."

Source: USGS, USDA Nevada Agricultural Statistics Service, U.S. Department of Commerce Bureau of Economic Analysis (BEA), Nevada Division of Water Planning (NDWP)



[9] Commercial, Industrial, Thermolectric and Mining Water Uses

1995

Commercial, Industrial, Thermolectric, and Mining Water Use Analysis

(Acre-Feet per Year and Gallons per Worker per Day)

Rev. 11/21/98

County and County Code	Total Nevada and County Covered Employment	Total Commercial and Industrial Water Withdrawals	Total Thermo- Electric Water Withdrawals	Mining Water Withdrawals for Consumption Use Only	Mining Water Withdrawals for Non-Consumption Use	Commercial and Industrial Public Supply Water Use per Worker (Gallons/Day)	Total Commercial and Industrial Water Use per Worker (Gallons/Day)	Commercial and Industrial Water Use per Worker-excl. Mining, BHP (Gallons/Day)
Carson City..... CC	26,218	2,274	0	0	0	69.4	77.7	77.5
Churchill..... CH	6,987	1,123	22,563	179	0	47.4	282.3	281.0
Clark..... CL	502,180	121,066	25,337	2,786	0	184.7	215.2	215.4
Douglas..... DG	19,277	3,292	0	0	0	34.0	132.5	132.7
Elko..... EL	18,379	2,943	0	5,354	0	130.1	386.0	415.3
Esmeralda..... ES	322	43	0	12,613	0	121.2	121.2	239.3
Eureka..... EK	4,334	67	4,637	19,237	95,031	13.2	13.2	93.7
Humboldt..... HU	7,790	1,411	3,226	35,077	61,563	88.4	162.2	290.6
Lander..... LA	2,463	146	0	7,550	28,048	52.7	52.7	94.0
Lincoln..... LJ	1,533	364	0	0	0	151.9	211.5	214.4
Lyon..... LY	7,051	8,894	1,400	3,535	0	151.6	1,126.1	1,133.9
Mineral..... MI	2,543	280	0	2,520	0	38.3	98.3	116.3
Nye..... NY	8,496	784	0	7,057	625	70.6	82.4	97.3
Payson..... PE	1,356	414	0	2,106	0	190.9	196.2	107.1
Sage..... SI	734	60	1,826	258	0	83.0	83.0	93.0
Washoe..... WA	167,151	23,091	6,660	717	0	97.1	139.6	130.1
White Pine..... WP	4,333	240	0	11,560	0	32.0	52.0	60.0
NEVADA..... NV	784,486	172,407	65,459	89,164	125,271	150.4	196.2	199.6

Total Miner

(1) "Water Use" and "Water Withdrawals" are reported terms, but are not the same as consumption (see definition of "Water Use" below)

(2) "Total Nevada and County Covered Employment" includes contract workers and seasonal and federal employment (see table 1001010)

(3) Commercial, Industrial, Thermolectric, and Mining water withdrawals include both public supplied and self-supplied water. Mining includes district use.

(4) The "Water Use" per worker are calculated by dividing the appropriate water use (commercial/public supplied water, self-supplied water, both mechanical-supplied water) by total commercial and industrial water employees. In the case of total covered employees.

Source: U.S. Geological Survey (1995), Nevada Department of Employment, Training and Rehabilitation (DETR)

[10] Nevada Water Usage Rate Analysis

1995

Population and Employment Water Usage Rate Summary and Analysis
(Acres-Foot per Year, Except per Capita and per Worker Usage Rates)

Rev. 11/21/98

County and County Code	Total Nevada and County Rank ⁽¹⁾ Population (Persons)	Total Water Withdrawals Excluding Mine Re-watering	Percent of Total Water Withdrawals	Total Domestic Water Withdrawals per Person (Gallons/Day)	Domestic Public Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial (MS&I) Public Supplied Water Use per Person (Gallons/Day)	Commercial and Industrial Water Use per Worker-empl. Mining Kemp. (Gallons/Day)	Mining Water Withdrawals per Mining Worker (Gallons/Day)
Carson City.....	CC	46,730	20,932	0.54%	135.5	136.8	197.7	0
Churchill.....	CH	21,640	286,300	7.42%	142.6	148.6	346.9	6.54
Clark.....	CL	1,036,290	168,353	12.15%	212.5	213.0	444.3	4.75
Douglas.....	DC	35,880	205,956	5.29%	261.6	264.2	306.0	0
Elko.....	EL	43,050	935,593	24.29%	240.4	242.1	111.7	3,691
Esmeralda.....	ES	1,680	82,809	1.82%	162.6	157.7	138.1	72,646
Esneke.....	EU	1,560	149,401	3.87%	240.0	245.4	322.9	4,370
Humboldt.....	HU	16,230	625,022	16.21%	244.4	253.0	348.8	5,840
Lander.....	LA	6,440	170,915	4.43%	187.5	191.1	245.4	6,229
Lincoln.....	LI	4,110	67,516	1.75%	394.3	400.5	490.9	4
Lyon.....	LY	26,580	115,076	3.13%	140.1	141.3	210.7	1,155.9
Mineral.....	MI	6,700	19,714	0.51%	153.6	156.9	211.7	5,982
Nye.....	NY	21,050	35,975	0.99%	224.1	221.4	347.7	4,851
Pershing.....	PE	5,340	121,216	3.14%	253.0	255.7	341.5	2,757
Storey.....	ST	3,700	4,512	0.09%	94.9	98.6	143.0	2,819
Washoe.....	WA	591,050	214,983	5.69%	176.0	177.7	269.7	1,244
White Pine.....	WP	9,700	99,860	2.59%	300.0	302.4	352.4	15,781
NEVADA.....	NV	1,579,159	3,036,117	100.000%	203.9	205.6	315.0	6,036

Total Notes:

- (1) Water Use and Water Withdrawals are water withdrawn from all sources and include the water consumption of the municipal and industrial sectors.
 - (2) Total Water Withdrawals exclude water flowing to the mining sector (consumptive water use).
 - (3) Total Domestic Withdrawals are Public (City and County) and Self-Supplied (Farm and Self-Supplied) water used by the resident population.
 - (4) Mining and Industrial Water Use per Person (Gallons/Day) includes public supplied (municipal, commercial, industrial and thermoelectric) withdrawals.
 - (5) Mining Water Withdrawals per Mining Worker based on consumption in only and does not include mining development (e.g., non-consumptive use).
 - (6) Commercial and Industrial Water Use per Worker equals commercial and industrial (public and self-supplied) water withdrawals divided by total census employment.
- Source: USGS, Nevada Agricultural Statistics Service; Nevada State Data Center; Department of Employment, Training, and Rehabilitation (DETRE)



[11] Nevada Household Water Usage Rate Analysis

1995

Water Withdrawals for Population and Occupied Housing Units
(Acre-Feet per Year, Except per Household and per Capita Usage Rates)

Rev. 11/2000

County and County Codes	Total Nevada and County Resident Population (Persons)	Total Nevada and County Covered Employment	Households (Occupied Housing Units)	Average Number of Persons per Occupied Housing Unit	Average Number of Workers per Occupied Housing Unit	Total Domestic Water Withdrawals	Total Domestic Water Use per Household (Gallons/Day)	Total Domestic Water Withdrawal per Person (Gallons/Day)
Carson City..... CC	45,770	36,218	18,151	2.6	1.4	7,006	349.0	135.5
Churchill..... CH	21,640	6,969	3,970	2.7	0.9	3,457	387.2	142.6
Clark..... CL	1,016,290	502,186	386,147	2.7	1.4	246,769	576.1	212.5
Douglas..... DG	15,880	19,272	13,512	2.7	1.4	10,519	694.6	261.6
Elko..... EL	43,050	13,370	13,013	2.9	1.2	11,595	689.5	240.1
Humboldt..... HS	1,630	322	218	2.3	0.9	202	373.1	162.6
Esmeralda..... EM	1,580	4,354	620	2.3	2.3	425	690.0	260.0
Humboldt..... HU	6,270	7,770	3,671	2.9	1.4	4,454	791.2	241.4
Lander..... LA	6,440	2,465	2,247	2.9	1.1	1,353	557.6	187.6
Lincoln..... LI	4,110	1,535	1,429	2.9	1.1	1,355	646.3	194.4
Lyon..... LY	36,580	7,051	9,914	3.7	0.7	4,171	375.6	140.1
Mineral..... MI	6,700	2,515	2,619	3.6	1.0	1,153	392.9	154.6
Nye..... NY	23,650	5,196	3,444	2.7	1.0	5,785	611.6	224.1
Perkins..... PE	5,140	1,886	1,823	2.6	1.0	1,345	656.9	233.0
Storey..... ST	3,260	721	1,258	3.5	0.6	340	241.4	94.9
Washoe..... WA	291,050	165,151	15,793	2.5	1.4	57,082	442.7	176.0
White Pine..... WP	5,770	4,230	3,422	2.9	1.2	3,281	856.1	309.0
NEVADA..... NV	1,579,150	784,496	594,755	2.7	1.3	368,740	541.4	203.2

Table Notes:

- (1) "Population" and "Water Withdrawal" are rounded to the nearest 1000, but are on the same scale as presented. Do not round to 1000000th place.
 - (2) "Total Nevada and County Covered Employment" includes workers covered under state and federal unemployment insurance programs.
 - (3) Households represent non-occupied housing units, just the state or local housing units.
 - (4) "Total Domestic Water Withdrawal" includes both public supplied and all supplied water (private wells, private fields, etc.).
- Sources: U.S. Geological Survey (USGS) Nevada State Demography; U.S. Bureau of Economic Analysis; Nevada Department of Employment

[12] Nevada Water Use by Category Share Analysis

1995

Shares of Total Water Withdrawals by Principal Use Category (Percent)

Rev. 10/2008

County and County Code	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermoelectric Water Withdrawals	Total Mining Water Withdrawals	Livestock Water Withdrawals	Irrigation Water Withdrawals	Public Use and Losses
Carson City..... CC	91.00%	5.83%	5.03%	0.00%	0.00%	0.05%	51.17%	4.01%
Churchill..... CH	1.31%	0.39%	0.13%	8.02%	0.06%	0.23%	89.61%	0.27%
Cook..... CL	59.68%	23.91%	1.94%	5.41%	0.51%	0.06%	8.60%	6.89%
Douglas..... DG	5.15%	1.47%	0.15%	2.00%	0.00%	0.13%	178.93%	0.17%
Elko..... EL	1.22%	0.85%	0.00%	0.00%	0.57%	0.18%	99.02%	0.16%
Esmeralda..... ES	0.47%	0.07%	0.00%	0.00%	20.08%	0.20%	79.11%	0.07%
Eureka..... EU	0.78%	0.03%	0.00%	1.90%	46.74%	0.00%	51.06%	0.01%
Humboldt..... HU	0.65%	0.10%	0.08%	0.47%	11.15%	0.09%	87.43%	0.00%
Lander..... LA	0.68%	0.09%	0.00%	0.00%	17.59%	0.17%	81.19%	0.05%
Lincoln..... LI	2.07%	0.54%	0.00%	0.00%	0.00%	0.18%	97.07%	0.30%
Lyon..... LY	1.35%	1.72%	1.52%	0.43%	0.79%	0.14%	94.43%	0.21%
Mineral..... MI	5.25%	1.40%	0.00%	0.00%	12.76%	0.17%	76.59%	0.20%
Nye..... NY	7.55%	1.02%	0.00%	0.00%	10.04%	0.96%	78.62%	1.50%
Permiing..... PE	1.17%	0.34%	0.00%	0.00%	1.74%	0.23%	96.49%	0.11%
Storey..... ST	5.62%	1.90%	0.00%	5.60%	7.29%	0.00%	28.54%	0.55%
Washoe..... WA	26.20%	9.43%	1.37%	3.77%	0.33%	0.13%	55.50%	4.25%
White Pine..... WP	3.29%	0.25%	0.00%	0.00%	11.56%	0.27%	81.15%	0.26%
NEVADA..... NV	8.93%	3.79%	0.48%	1.62%	6.79%	0.16%	77.04%	1.20%

Table Notes:

(1) Water for use in water withdrawal equipment and piping, but not for the same as consumption, are shown as zero for each county.

(2) Shares by use category are measured as percent of Total Water Withdrawals (all uses) presented on Table 1, which include all water withdrawn both public, agricultural and industrial. Total withdrawals also includes "Public Use and Losses" presented on Table 2 and irrigation withdrawals on Table 3.

(3) Total domestic, commercial, industrial, and thermoelectric water withdrawals include both public supplied and self-supplied; Total mining water includes both processed water (processing) and non-processed (e.g. ore crushing).

Source: Data: U.S. Geological Survey (USGS); USDA/Nevada Agricultural Statistics Service; Nevada Division of Water Planning (NDWP)



[1] Nevada Water Use Summary

1990

Water Withdrawals by Principal Category of Use (Acres-Foot per Year)

Rev. 1/1989

County and County Code	Total Water Withdrawals All Uses	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermal Electric Water Withdrawals	Total Mining Water Withdrawals	Thermal Electric Water Withdrawals	Thermal Electric Water Withdrawals
Lassen City.....	CC	11,405	7,244	1,212	1,064	0	0	2,883
Churchill.....	CH	308,866	2,908	813	291	22,952	179	290,819
Clark.....	CL	389,767	180,274	84,402	10,554	57,286	2,821	36,639
Douglas.....	DB	214,117	7,530	2,151	300	0	123	203,681
Elko.....	EL	917,535	9,941	7,953	0	0	5,130	1,709
Esmeralda.....	ES	50,842	711	56	0	0	15,660	123
Eureka.....	EU	205,735	427	78	0	4,037	29,639	157
Humboldt.....	HU	602,150	3,255	548	0	5,153	25,847	527
Lander.....	LA	159,555	951	246	0	0	19,169	336
Lincoln.....	LI	67,474	1,368	331	0	0	0	123
Lyon.....	LY	735,048	3,513	1,221	90	5,556	1,268	448
Mineral.....	MI	35,402	913	1,199	0	0	1,046	34
Nye.....	NY	61,033	2,870	1,904	22	0	7,061	739
Perkins.....	PE	155,556	1,275	158	0	0	1,646	258
Storey.....	ST	3,937	271	50	0	3,282	203	0
Washoe.....	WA	152,110	57,397	19,771	1,750	5,049	2,274	201
White Pine.....	WP	100,082	3,022	3,371	0	0	3,913	269
NEVADA.....	NV	3,846,035	283,576	125,644	14,383	74,915	120,125	6,329

Note:

- (1) "Total Water Use" and "Total Withdrawals" are equal in terms of volume, but may not be exactly 100% due to losses in the transmission system.
- (2) "Total Water Withdrawals All Uses" includes all withdrawals both public supplied and self-supplied. It also includes withdrawals for irrigation in Table 2 and mining use as defined in Table 3, consisting of: (a) water from surface water; (b) water from groundwater.
- (3) "Total Domestic, Commercial, Industrial, and Thermal Electric Water Withdrawals" includes both public supplied and self-supplied water use. Total Mining Water Withdrawals include both consumptive use (i.e., processing) and non-consumptive use (i.e., mining activities).
- (4) Data are based on 1990 estimates.

Sources: U.S. Geological Survey (USGS), U.S. Department of Agriculture (USDA), Bureau of Agricultural Statistics, Service Nevada Division of Water Planning (NDWP).

[2] Nevada Public Supplied Water Use

1990

Public Supplied Water Withdrawals by Principal Use (Acres-Feet per Year)

Rev. 11-23-99

County and County Code	Population Served by Public Supplied Water (Persons)	Total Public Supplied Water	Domestic Public Supplied Water	Commercial Public Supplied Water	Industrial Public Supplied Water	Thermal Electric Public Supplied Water	Public Use and Losses	Public Supplied Water Use Per Person (Gallons/Day)	
Carson City	CC	36,940	3,700	6,598	1,232	349	0	1,011	234.5
Churchill	CU	9,352	2,621	1,579	775	25	0	246	260.2
Clark	CL	754,365	2,89,615	126,915	12,607	1,683	896	47,214	354.6
Douglas	DG	19,912	5,211	2,500	2,079	0	0	672	368.2
Ely	EL	28,915	11,209	8,656	2,520	0	0	112	347.9
Henderson	HS	826	190	134	45	0	0	11	205.8
Humboldt	HU	988	781	250	67	0	0	34	146.9
Lincoln	LD	9,258	3,192	2,386	584	0	0	302	307.5
Lyon	LY	4,851	1,053	717	240	0	0	96	302.1
Manhattan	MT	1,225	1,669	1,176	347	0	0	146	402.0
Mason	MS	16,891	1,201	2,905	825	0	0	457	302.0
Mineral	MI	3,901	2,263	840	1,176	0	0	146	343.9
Nye	NY	11,701	3,596	1,515	1,165	0	0	426	267.4
Pershing	PE	1,722	1,557	1,061	347	0	0	146	375.5
Storey	ST	1,619	258	179	45	0	0	34	142.1
Washoe	WA	236,130	78,299	55,330	16,074	101	0	8,694	295.4
White Pine	WP	8,381	1,237	2,752	782	0	0	114	344.7
NEVADA	NY	1,152,772	431,322	266,906	160,218	2,946	896	60,395	334.0

Note:

(1) "Water Used" and "Water Withdrawal" are equal in amount, but are not the same as water applied due to infiltration to ground level.

(2) Population and, therefore, population only includes those served by public water systems only.

(3) "Total Public Supplied Water" includes water supplied by public water supply agencies, including public and non-public water utilities. Also referred to as "Principal and Industrial" or "M&I" water use.

(4) County codes are equivalent to FIPS codes.

Source: U.S. Geological Survey (USGS) Report: Division of State Planning (DOWP)



[3] Nevada Self-Supplied and Other Water Uses

1990

Self-Supplied, Mining, Livestock, Irrigation Water Use (Acres-Foot per Year)

County and County Codes	Total Water Withdrawals All Uses	Total Public Supplied Water	Domestic Self-Supplied Water	Commercial Self-Supplied Water	Industrial Self-Supplied Water	Thermo-Electric Self-Supplied Water	1990-11-01-90	
							Mining Water Withdrawals Consumptive Use Units	Livestock and Irrigation Water Withdrawals
Carson City..... CC	13,405	9,700	646	11	224	0	0	2,820
Churchill..... CH	308,886	2,621	1,029	45	269	22,952	175	281,491
Clark..... CL	389,762	299,615	3,159	11,708	8,872	26,390	1,983	36,900
Douglas..... DG	214,117	8,311	2,010	112	302	0	123	209,559
Elko..... EL	917,535	11,269	1,308	5,433	0	0	4,682	894,599
Esmeralda..... ES	50,947	99	77	11	0	0	12,857	34,905
Eureka..... EU	308,253	181	147	11	0	4,637	16,337	199,418
Humboldt..... HC	661,180	3,192	869	34	0	5,153	5,668	568,090
Lander..... LA	159,853	1,033	204	0	0	0	7,975	159,457
Lincoln..... LI	67,434	1,689	192	34	0	0	0	65,539
Lyone..... LY	363,658	4,201	504	392	90	5,556	2,555	320,581
Mason..... MA	75,402	2,265	79	22	0	0	1,624	71,398
Nye..... NY	61,053	3,506	953	739	22	0	7,505	50,249
Pershing..... PE	135,556	1,557	213	11	0	0	1,579	132,129
Storey..... ST	3,037	258	94	11	0	1,282	298	0
Washoe..... WA	152,110	78,399	4,367	3,696	1,658	6,049	717	155,766
White Pine..... WP	101,882	1,297	300	3,069	0	0	3,831	89,544
NEVADA..... NV	3,346,035	431,322	16,668	25,426	11,437	74,019	67,858	3,167,038

Table Notes:

- (1) "Other Use" and "Other Withdrawals" are equal in amount and are not included in the total consumptive use due to net account for return flows.
- (2) "Total Public Supplied Water" includes domestic, commercial, industrial, and farm/irrigation water supplied by public water supply providers.
- (3) "Total Self-Supplied Water" is water from private well or other private water systems serving agricultural or other affiliated sources of users.
- (4) Mining water withdrawals are high-intensity consumptive uses, i.e., non-recovering.
- (5) One acre-foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS), USDA, Nevada Agricultural Statistics Service, Nevada Division of Water Planning (NDWP)

[4] Nevada Domestic, M&I, and Total Water Use per Capita

1990

Domestic Public and Self-Supplied, M&I, Adjusted M&I, Total Use (Gallons/Day)

Rev. 11/2/98

County and County Code		Total Nevada and County Resident Population (Least)	Population Served by Public Supplied Water (Persons)	Percent of Population Served by Public Supply Water Systems	Domestic Public Supplied Water Use per Person (Gallons/Day)	Domestic Self-Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial M&I Public Supplied Water Use per Person (Gallons/Day)	Public and (Partial) Self-Supplied Water Use per Person (Gallons/Day)
Carson City.....	CC	40,950	36,930	90.2%	159.5	143.5	234.3	259.8
Churchill.....	CH	18,100	9,253	51.7%	150.8	155.6	250.2	401.0
Clark.....	CL	770,280	754,365	97.9%	200.4	168.4	354.6	283.0
Douglas.....	DO	28,070	19,905	70.9%	246.7	222.0	368.3	477.9
Elko.....	EL	11,770	28,915	85.6%	366.6	341.0	347.9	555.0
Lisianski.....	ES	1,353	876	61.2%	145.3	131.2	205.8	101.1
Eureka.....	ET	1,550	980	63.2%	255.1	230.2	346.9	491.1
Humboldt.....	HO	13,020	9,268	71.2%	229.8	205.8	307.5	394.5
Lander.....	LA	6,340	4,631	73.4%	137.6	133.7	202.1	247.0
Lincoln.....	LI	3,820	5,225	84.6%	125.6	291.0	462.0	524.5
Lyon.....	LY	20,590	16,894	82.0%	155.1	139.6	222.0	278.0
Mineral.....	MI	6,470	5,901	91.2%	127.1	114.5	342.5	356.7
Nye.....	NY	18,190	11,704	64.3%	146.1	131.4	267.4	198.4
Perkins.....	PE	4,550	3,722	81.8%	235.2	229.7	373.5	437.2
Storey.....	ST	2,560	1,619	63.2%	98.8	39.2	142.1	200.1
Washoe.....	WA	257,120	236,130	91.8%	201.6	181.5	296.4	312.8
White Pine.....	WP	9,430	8,381	89.1%	239.8	261.0	344.7	703.5
NEVADA.....	NV	1,236,130	1,152,772	93.3%	206.7	178.5	334.0	375.5

Table Notes

- (1) "Water Use" and "Water Withdrawals" are equivalent terms. They are not the same concept (the row does not account for return flows).
- (2) "Domestic Public Supplied Water Use per Person (Gallons/Day)" equals public supplied water use divided by population served by public supply systems.
- (3) "Domestic Self-Supplied Water Use per Person (Gallons/Day)" equals self-supplied water use divided by population served by self-supplied systems.
- (4) "Municipal and Industrial Water Use per Person (Gallons/Day)" is based on public supplied water and population served by public supply water systems.
- (5) "Public and (Partial) Self-Supplied Water Use per Person (Gallons/Day)" is based on both public supplied water (i.e., total water supplied to residential, commercial and industrial sectors), divided by the total population. Excludes self-supplied thru-municipal water use and all mining water use.

Sources: U.S. Geological Survey (USGS) USGS Nevada Agricultural Statistics Service; Nevada State Demographer.



[5] Nevada Domestic and Commercial & Industrial Water Uses

1990

Domestic, Commercial & Industrial Water Use (Acres-Foot/Year and Gallons/Day)

Day, 1990

County and County Code	Total Domestic Water Withdrawals	Domestic Consumptive Water Use	Domestic Consumptive Use as Percent of Withdrawals	Total Domestic Water Use per Person (Gallons/Day)	Total Commercial and Industrial Water Withdrawals	Commercial and Industrial Consumptive Water Use	Commercial Consumptive Use as Percent of Withdrawals	Commercial and Industrial Water Use per Worker (Gallons/Day)
Carson City..... CC	7,244	3,676	49.9%	55.6	2,308	459	19.9%	95.7
Churchill..... CI	2,908	1,448	49.8%	43.5	1,199	224	20.2%	169.1
Clark..... CL	180,274	90,137	50.0%	208.9	95,256	19,150	19.9%	227.2
Douglas..... DG	7,539	3,769	49.9%	239.5	2,457	481	19.6%	119.8
Eureka..... EL	9,941	4,970	50.0%	262.8	7,951	582	7.3%	461.8
Hamberden..... HS	211	106	50.1%	139.8	56	11	20.0%	136.2
Bonanza..... BU	427	213	54.1%	246.0	58	11	19.3%	17.4
Humboldt..... HU	3,233	1,621	49.8%	223.21	538	112	20.8%	78.4
Lander..... LA	953	475	50.0%	133.9	246	45	18.2%	81.8
Lincoln..... LI	1,368	705	51.5%	320.6	381	78	20.6%	186.1
Lyon..... LY	3,512	1,749	49.8%	152.5	1,291	201	15.4%	221.3
Mineral..... MI	919	468	51.0%	126.0	1,799	246	20.6%	415.9
Nye..... NY	2,879	1,430	49.8%	140.9	1,927	381	19.8%	153.0
Pershing..... PE	1,277	638	51.4%	250.6	158	67	18.8%	181.8
Storey..... ST	272	141	51.6%	95.6	56	11	20.0%	67.8
Washoe..... WA	57,597	28,813	50.0%	290.0	21,529	3,623	16.9%	134.7
White Pine..... WP	3,022	1,505	49.8%	286.7	3,271	67	2.1%	245.1
NEVADA..... NV	283,574	141,837	50.0%	204.8	140,027	24,794	17.7%	200.7

Table Notes:

- (1) "Water Use" and "Water Withdrawals" are exclusive terms, neither net the amount of water recycled or reused in any form.
 - (2) Total Domestic Water Withdrawals and Total Commercial Water Withdrawals include both public supply and self-supplied water.
 - (3) Total Domestic Water Use per Person (Gallons/Day) equals Total Domestic Water Withdrawals divided by average population measured in gallons per day.
 - (4) Commercial and Industrial Water Use per Worker (Gallons/Day) equals Total Commercial and Industrial Water Withdrawals divided by average number of industrial or gallons per worker per day.
 - (5) One acre-foot is equivalent to 325,851 gallons.
- Source: U.S. Geological Survey (USGS)

[6] Nevada Livestock and Irrigation Water Uses

1990

Livestock and Irrigation Water Use Analysis (Acres-Foot per Year)

Rev. 11/2/98

County and County Code	Livestock Water Withdrawals	Livestock Consumptive Water Use	Livestock Consumptive Use as Percent of Withdrawals	Local Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use as Percent of Irrigation Withdrawals	Total Livestock and Irrigation Water Withdrawals	Total Livestock and Irrigation Water Use as Percent of Total Withdrawals
Carson City..... CC	11	0	0.0%	2,812	1,512	53.8%	2,823	21.1%
Churchill..... CH	672	258	38.3%	280,819	139,640	49.0%	281,491	61.1%
Clark..... CL	280	202	72.0%	36,629	26,155	71.4%	31,609	9.5%
Douglas..... DG	158	134	82.2%	203,081	92,743	45.7%	203,339	95.0%
Elko..... EL	703	672	95.5%	392,656	456,737	51.2%	894,399	97.5%
Esmeralda..... ES	123	67	54.5%	34,783	2,843	62.8%	34,906	58.7%
Eureka..... EU	157	67	43.0%	170,261	69,412	38.4%	170,418	83.0%
Fernando..... FI	627	221	35.7%	567,493	292,677	32.5%	568,000	94.2%
Henderson..... HA	136	121	86.7%	139,121	79,873	59.1%	139,457	87.2%
Lincoln..... LI	123	31	27.1%	63,416	42,931	65.9%	63,539	97.2%
Lyon..... LY	448	146	32.5%	320,136	142,024	43.9%	320,584	95.5%
Mineral..... MI	34	34	100.0%	3,364	14,506	46.3%	3,398	88.7%
Nye..... NY	340	67	9.1%	49,510	32,272	65.4%	50,249	79.7%
Pershing..... PE	258	78	30.4%	171,871	68,024	33.4%	122,129	97.3%
Sage..... SA	0	0	-	0	0	-	0	0.0%
Washoe..... WA	291	133	43.0%	155,475	77,066	49.6%	155,766	61.8%
White Pine..... WP	269	93	39.1%	89,275	33,895	62.6%	39,544	89.5%
NEVADA..... NV	6,329	2,319	36.6%	3,160,709	1,633,835	51.7%	3,167,038	82.3%

Table Notes:

(1) "Water Use" and "Water Withdrawal" are identical for the purpose of this table as water is not lost in the distribution system.

(2) "Local Irrigation" is defined as 100,000 gallons.

Source: U.S. Geological Survey (1997); USDA, Nevada Agricultural Statistics Service; Nevada Division of Water Planning (NDWP).



[7] Nevada Irrigation Water Use Analysis

1990

Irrigation Water Withdrawals, Consumptive Use, Conveyance Losses, and Water Duty
(Acre-Feet per Year and Acre-Feet per Acre per Year)

County and County Code	Total Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use as Percent of Irrigation Withdrawals	Irrigation Conveyance Losses	Conveyance Losses as Percent of Irrigation Withdrawals	Total Irrigated Acreage (Acres)	Irrigation Water Withdrawal Rate (Acre-Feet per Acre per Year)	Irrigation Conveyance Losses (Acre-Feet per Acre per Year)
Carson City..... CC	2,812	1,510	53.8%	1,008	35.9%	900	3.1	1.1
Churchill..... CH	280,810	129,040	46.0%	81,658	29.1%	61,400	4.6	1.3
Clark..... CL	56,629	26,155	46.4%	2,016	3.5%	7,000	8.2	0.3
Douglas..... DG	203,081	92,745	45.7%	60,264	29.7%	41,400	4.9	1.5
Elko..... EL	892,595	456,717	51.2%	192,914	21.6%	210,150	4.2	0.9
Esmeralda..... ES	14,780	21,542	68.5%	5,584	10.3%	7,500	4.4	0.5
Franklin..... FD	170,261	99,472	58.4%	21,195	14.2%	44,900	3.8	0.5
Humboldt..... HI	567,153	297,677	52.3%	111,171	19.6%	144,350	4.2	0.8
Lander..... LA	139,121	71,872	51.6%	26,509	19.3%	31,700	4.5	0.6
Lincoln..... LI	65,416	42,901	65.6%	4,513	6.8%	15,600	4.2	0.3
Lyon..... LY	370,136	147,074	40.0%	95,660	29.9%	61,600	5.0	1.3
Mineral..... MI	51,367	14,509	28.2%	9,129	29.1%	3,500	3.4	1.0
Nye..... NY	49,510	32,372	65.4%	4,985	10.1%	12,200	4.1	0.4
Perkins..... PE	121,871	65,074	53.4%	22,739	18.7%	21,000	3.9	0.7
Storey..... ST	0	0	--	0	--	0	--	--
Washoe..... WA	155,475	77,066	49.6%	39,541	25.4%	34,500	4.5	1.1
White Pine..... WP	39,275	55,805	62.6%	9,332	10.7%	26,500	3.6	0.4
NEVADA	3,160,709	1,633,835	51.7%	689,143	21.8%	728,650	4.3	0.9

Total Notes:

- (1) "Water Use" and "Water Withdrawals" are in acre-feet per year; "Consumptive Use" is in acre-feet per year per acre.
- (2) "Irrigation Water Withdrawal Rate (Acre-Feet per Acre per Year)" is calculated by dividing "Total Irrigation Water Withdrawals" by "Total Irrigated Acreage."
- (3) "Irrigation Conveyance Losses (Acre-Feet per Acre per Year)" is calculated by dividing "Irrigation Conveyance Losses" by "Total Irrigated Acreage."
- (4) See page-four for explanation of NEPA values.

Source: U.S. Geological Survey (1982); U.S.D.A. Nevada Agricultural Statistics Service; Nevada Department of Water Planning (NWDWP).

[8] Nevada Irrigation and Farm Marketings Analysis

1990

Irrigated Acreage, Irrigation Water Withdrawals, and Value of Farm Marketings

(Acres, Acre-Foot per Year, Acre-Foot per Acre per Year, and Dollars)

Rev. 11/23/98

County and County Codes	Estimated Total Irrigated Acreage (Acres)	Percent of Total State	Irrigation and Livestock Water Withdrawals (AF/Year)	Percent of Total State	Irrigation and Livestock Water Use (Acre-Foot per Acre per Year)	Value of Total Farm Marketings (\$000s)	Value of Farm Marketings per Acre Foot (Dollars)	Value of Farm Marketings per Estimated Acre (Dollars)
Carson City..... CC	900	0.12%	3,833	0.03%	3.1	3913	\$325	\$1,020
Churchill..... CH	61,400	8.43%	281,491	8.89%	4.6	38,348	136	625
Clark..... CL	7,050	0.97%	36,009	1.13%	5.2	18,618	504	2,541
Douglas..... DG	41,400	5.68%	203,339	6.42%	4.9	11,324	56	334
Elko..... EL	210,150	28.84%	894,300	28.24%	4.3	51,071	59	253
Esmeralda..... ES	3,900	0.53%	34,903	1.10%	4.4	6,163	177	780
Eureka..... EU	44,700	6.13%	170,418	5.33%	3.8	11,254	66	352
Humboldt..... HT	134,750	18.49%	568,030	17.94%	4.2	55,265	98	412
Lander..... LA	31,200	4.28%	139,457	4.40%	4.5	9,563	59	307
Lincoln..... LI	13,600	1.84%	55,539	1.72%	4.2	7,096	108	455
Lyon..... LY	61,500	8.35%	320,584	10.12%	5.0	50,832	159	799
Mason..... MI	3,800	0.51%	31,398	0.99%	5.4	2,338	71	334
Nye..... NY	12,200	1.67%	50,240	1.59%	4.1	11,342	226	930
Ormsby..... OR	31,100	4.27%	122,129	3.86%	3.9	22,571	228	895
Storey..... ST	0	0.00%	0	0.00%	N/A	0	N/A	N/A
Washoe..... WA	94,500	12.95%	155,766	4.92%	2.5	19,587	59	401
White Pine..... WP	26,300	3.61%	86,544	2.87%	3.3	5,808	98	335
NEVADA..... NV	728,650	100.00%	3,167,839	100.00%	4.3	\$326,888	\$103	\$449

Table Notes:

(1) "Water Use" and "Water Withdrawals" are equivalent terms, but do not take into account multiple uses or out-uses of irrigation flows.

(2) "Irrigation and Livestock Water Use (Acre-Foot per Acre per Year)" calculated by dividing the "Irrigation and Livestock Water Withdrawals" by the "Estimated Irrigated Acreage."

(3) "Value of Farm Marketings per Acre-foot and per Irrigated Acre (Dollars)" calculated by dividing the "Value of Total Farm Marketings" by either "Irrigation and Livestock Water Withdrawals" or by "Estimated Total Irrigated Acreage."

Source: USFS; USDA Nevada Agricultural Statistics Service, US Department of Commerce, Bureau of Economic Analysis (BEA), Nevada Division of Water Planning (NDWP)



[9] Commercial, Industrial, Thermolectric and Mining Water Uses

1990

Commercial, Industrial, Thermolectric, and Mining Water Use Analysis

(Acre-Feet per Year and Gallons per Worker per Day)

Rev. 4/12/94

County and County Codes		Total Needs and County Covered Employment	Total Commercial and Industrial Water Withdrawals	Total Thermo- Electric Water Withdrawals	Mining Water Withdrawals for Consumption Use Only	Mining Water Withdrawals Not Consumed (Gal)	Commercial and Industrial Public Supplied Water Use per Worker (Gallons/Day)	Total Commercial and Industrial Water Use per Worker (Gallons/Day)	Commercial and Industrial Water Use per Worker- excl. Mining Emp. (Gallons/Day)
Coeur d'Alene City	CH	21,520	2,308	0	0	0	86.0	95.7	95.9
Churchill.....	CH	3,853	1,109	22,952	179	0	121.3	169.1	173.7
Clark.....	CL	174,231	95,256	27,386	1,983	840	177.9	227.2	227.1
Elko.....	DE	18,275	2,453	0	123	0	99.6	119.8	119.9
Esmeralda.....	EL	13,376	7,953	0	4,682	448	146.7	461.8	504.0
Esmeralda.....	ES	367	56	0	12,837	2,820	109.0	136.2	318.3
Garfield.....	GU	4,029	78	4,647	16,332	13,307	14.9	17.4	167.9
Humboldt.....	HU	6,123	534	5,153	5,668	20,174	73.5	78.4	104.4
Lander.....	LA	2,629	744	0	7,975	11,134	81.8	83.8	173.8
Lyon.....	LI	1,827	181	0	0	0	169.7	36.1	188.9
Lyon.....	LY	5,288	1,011	5,536	2,565	1,703	179.9	321.3	338.4
Mineral.....	MI	3,573	1,009	0	1,624	22	108.1	415.9	543.2
Nye.....	NY	11,220	1,937	0	7,085	56	92.7	153.3	185.5
Pershing.....	PE	1,760	158	0	1,579	67	175.1	181.8	297.1
Storey.....	ST	737	55	1,182	758	74	54.3	57.8	85.5
Washoe.....	WA	42,671	21,529	6,019	717	1,557	101.2	134.9	136.2
White Pine.....	WP	3,919	1,271	0	3,831	101	45.9	745.1	952.7
NEVADA.....	NV	619,639	140,017	74,915	67,854	52,266	148.6	201.7	206.5

Total Needs

(1) "Water Use" and "Water Withdrawal" are approximate terms; both are actually water use and withdrawal using the unit acre-foot for volume. (See table 1000)

(2) Total Needs and County Covered Employment figures do not include workers covered by commercial and federal unemployment insurance programs.

(3) Commercial, Industrial, Thermolectric and Mining water withdrawal is both public supplied and self-supplied water. Mining self-use does not include

(4) "Per Worker" usage rates are calculated by dividing the accepted water use (commercial, public supplied water, self-supplied water) by the total number of workers in the county. (See table 1000)

Source: U.S. Geological Survey (1989), Nevada Department of Employment, Training and Rehabilitation (1991)

[10] Nevada Water Usage Rate Analysis

1990

Population and Employment Water Usage Rate Summary and Analysis
 (Acres-Foot per Year, Except per Capita and per Worker Usage Rates)

Rev. 11/20/98

County and County Code	Total Nevada and County Resident Populations (Persons)	Total Water Withdrawals (Excluding Mine Steaming)	Percent of Total Water Withdrawals	Total Domestic Water Withdrawals per Person (Gallons/Day)	Domestic Public Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial Public supplied Water Use per Person (Gallons/Day)	Commercial and Industrial Water Use per Worker-ent. Mining Emp. (Gallons/Day)	Mining Water Withdrawals per Mining Worker (Gallons/Day)
Carson City.....	CC 40,930	13,405	0.35%	327.9	159.5	234.5	95.9	0
Churchill.....	CH 18,160	308,886	8.14%	143.5	150.8	230.2	170.7	2,963
Clark.....	CL 770,280	388,922	10.25%	208.9	209.4	354.6	227.4	6,969
Douglas.....	DO 28,070	214,117	5.67%	238.5	246.7	368.2	119.9	7,357
Ely.....	EL 33,770	913,087	24.17%	262.8	266.6	347.9	501.0	3,243
Emeralds.....	ES 1,330	18,019	1.27%	139.8	145.3	205.8	213.7	83,644
Esmeralda.....	EH 1,550	191,926	5.06%	246.0	255.1	346.9	162.9	4,651
Elumboldt.....	EL 13,020	583,006	15.37%	229.2	229.8	307.5	104.4	3,314
Lander.....	LA 6,540	146,719	3.92%	177.9	157.6	202.1	173.8	5,295
Lincoln.....	LI 3,810	67,434	1.78%	370.6	325.6	462.0	188.9	0
Lyon.....	LY 20,500	333,965	8.80%	162.7	155.1	222.0	278.4	14,879
Mineral.....	MI 6,470	35,380	0.93%	126.0	127.1	142.0	344.3	2,405
Nye.....	NY 18,100	62,977	1.69%	148.9	146.1	267.4	133.5	3,438
Pershing.....	PE 4,550	125,489	3.31%	251.6	255.2	352.5	297.7	2,664
Storey.....	ST 2,560	4,905	0.10%	95.3	98.8	42.1	86.5	1,447
Washoe.....	WA 257,120	350,553	6.60%	200.0	200.6	290.8	136.2	473
White Pine.....	WP 9,410	99,981	2.67%	236.7	289.8	344.7	962.7	3,800
NEVADA.....	NV 1,236,130	3,793,769	100.00%	204.8	206.7	334.0	206.5	4,210

Notes:

- (1) "Water Use" and "Water Withdrawals" are equivalent, annual, later use and (2) are as measured; (3) none, a county, for data flows
- (2) "Total Water Withdrawals" includes mine steaming, including non-ferrous copper recovery
- (3) "Total Domestic Withdrawals per Person (Gallons/Day)" includes public supplied water and self-supplied water drawn by the public aquifers
- (4) "Municipal and Industrial Water Use per Person (Gallons/Day)" includes public supplied domestic, commercial, industrial and other related to domestic
- (5) "Mining Water Withdrawals per Mining Worker" based on non-ferrous metal and uranium, includes non-desalting (i.e., no reverse osmosis)
- (6) "Commercial and Industrial Water Use per Worker" equals total (3) minus (4) minus (5) (includes self-supplied related to (3) by self-owned water treatment)

Source: 1980-1989 Nevada Agricultural Statistics Service; Census Bureau; Bureau of Employment, Training, and Education (BLS)



[11] Nevada Household Water Usage Rate Analysis

1990

Water Withdrawals for Population and Occupied Housing Units
(Acre-Feet per Year, Except per Household and per Capita Usage Rates)

Rev. 11/2/88

County and County Codes	Total Nevada and County Resident Populations (Persons)	Total Nevada and County General Employment	Households (Occupied Housing Units)	Average Number of Persons per Occupied Housing Unit	Average Number of Workers per Occupied Housing Unit	Total Domestic Water Withdrawals	Total Domestic Water Use per Household (Gallons/Day)	Total Domestic Water Withdrawals per Person (Gallons/Day)
Carson City..... CC	40,950	21,526	15,895	2.6	1.4	7,244	456.8	157.5
Churchill..... CH	18,100	5,853	6,666	2.7	0.9	2,308	389.5	143.5
Clark..... CL	170,280	374,231	287,025	2.7	1.3	130,274	509.7	288.9
Douglas..... DG	26,070	18,275	10,571	2.7	1.7	7,530	655.9	259.5
Elko..... EL	15,770	13,376	11,777	2.9	1.4	9,941	753.6	262.8
Esmeralda..... ES	1,550	387	588	2.3	0.6	211	321.0	159.8
Eureka..... EU	1,550	4,026	617	2.5	6.5	427	617.9	240.6
Humboldt..... HU	13,070	6,123	4,538	2.9	1.3	3,255	640.2	223.2
Lander..... LA	6,540	2,526	2,212	2.9	1.2	951	383.8	155.9
Lincoln..... LI	5,810	1,827	1,705	2.9	1.4	1,368	921.8	320.6
Lyon..... LY	30,590	5,288	7,680	2.7	0.7	3,513	408.3	152.1
Mineral..... MI	6,400	2,573	2,529	2.6	1.0	913	322.3	176.0
Nye..... NY	18,190	11,220	6,661	3.7	1.7	2,870	384.5	140.9
Pershing..... PE	4,550	1,760	1,614	2.8	1.1	1,277	706.4	250.6
Storey..... ST	2,560	797	1,006	2.5	0.7	299	242.5	83.2
Washoe..... WA	257,120	342,671	102,264	2.5	1.4	57,597	502.7	200.9
White Pine..... WP	6,410	3,919	3,236	2.0	1.2	3,032	818.5	286.7
NEVADA..... NV	1,236,130	619,639	466,297	2.7	1.3	283,574	542.9	204.8

Table Notes:

- (1) "Water Use" and "Water Withdrawal" are calculated from bills for all the city or county water service areas that are not covered by other flows.
 - (2) "Total Nevada and County General Employment" includes workers covered under state and federal unemployment insurance programs.
 - (3) "Households" reported by occupied housing units, not the average total housing units.
 - (4) "Total Domestic Water Withdrawals" includes both public supplied and self-supplied water in residential (household) uses.
- Sources: U.S. Geological Survey (USGS) Nevada State Information; U.S. Bureau of the Census; Nevada Department of Employment

[12] Nevada Water Use by Category Share Analysis

1990

Shares of Total Water Withdrawals by Principal Use Category (Percent)

Rev. 11/23/88

County and County Code	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermal-Electric Water Withdrawals	Total Mining Water Withdrawals	Total Livestock Water Withdrawals	Total Irrigation Water Withdrawals	Total Public Use and Losses
Carson City	54.94%	9.28%	7.94%	0.00%	0.00%	0.08%	20.97%	7.59%
Churchill.....	0.94%	0.26%	0.09%	7.43%	0.00%	0.22%	90.01%	0.98%
Clark.....	46.25%	21.65%	2.08%	7.00%	0.72%	0.07%	9.40%	13.11%
Douglas.....	1.52%	1.00%	0.14%	0.00%	0.05%	0.12%	94.85%	0.31%
Elko.....	1.08%	0.57%	0.00%	0.00%	0.56%	0.19%	57.29%	0.01%
Esmeralda.....	0.42%	0.11%	0.00%	0.00%	30.80%	0.24%	68.41%	0.02%
Eureka.....	18.11%	0.04%	0.00%	2.25%	14.44%	0.08%	82.96%	0.02%
Humboldt.....	0.54%	0.09%	0.00%	0.85%	4.34%	0.10%	94.08%	0.05%
Lander.....	0.59%	0.15%	0.00%	0.00%	11.95%	0.21%	87.09%	0.00%
Lincoln.....	2.07%	0.56%	0.00%	0.00%	0.00%	0.18%	97.01%	0.22%
Lyon.....	1.05%	0.36%	0.03%	1.66%	1.27%	0.14%	95.07%	0.11%
Mineral.....	2.58%	0.30%	0.00%	0.00%	4.05%	0.09%	88.59%	0.50%
Nye.....	4.55%	3.02%	0.04%	0.00%	12.00%	1.17%	78.53%	0.68%
Pershing.....	1.02%	0.29%	0.00%	0.00%	1.31%	0.31%	97.08%	0.12%
Storey.....	0.94%	1.40%	0.00%	81.17%	7.41%	0.00%	1.00%	6.85%
Washoe.....	27.85%	7.84%	0.76%	2.40%	0.00%	0.13%	61.07%	3.52%
White Pine.....	3.02%	3.27%	0.00%	0.00%	3.03%	0.30%	89.20%	0.11%
NEVADA.....	7.37%	3.17%	0.87%	1.93%	3.12%	0.10%	82.18%	1.57%

Table Note:

(1) "Water Use and Total Withdrawals" are equal in terms of amount but the units are different, i.e., gallons versus acre-feet (AF).

(2) Shares by use category are measured as percent of "Total Water Withdrawals All Users" (reported on Table 1), which includes all water withdrawals both public supplied and self-applied. Total withdrawals include "Public Use and Losses" presented on Table 7 and all mining water withdrawals.

(3) Total domestic, commercial, industrial, and/or livestock water withdrawals include both public supplied and self-applied. Total mining water use includes both non-mining (e.g., processing) and non-consumptive (e.g., ore processing).

Source: Data: U.S. Geological Survey (USGS), USDA, Farm's Agricultural Statistics Service; Nevada Division of Water Planning (NDWP)



[1] Nevada Water Use Summary

1985

Water Withdrawals by Principal Category of Use (Acre-Foot per Year)

Rev. 10/89B

County and County Code	Total Water Withdrawals All Uses	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermoelectric Water Withdrawals	Total Mining Water Withdrawals	Livestock Water Withdrawals	Irrigation Water Withdrawals
Cassidy City..... CC	13,316	7,110	1,098	982	0	0	0	3,260
Churchill..... CH	539,830	1,520	376	302	45	269	1,288	353,194
Clark..... CL	299,429	176,571	49,151	10,865	19,044	1,411	4,985	48,536
Douglas..... DG	242,644	7,510	650	224	0	381	717	231,947
Elko..... EL	1,058,581	7,575	1,949	0	0	2,733	3,681	1,055,928
Esmeralda..... ES	40,880	250	22	0	0	4,880	215	35,542
Eureka..... EU	186,484	305	22	0	0	3,549	605	187,191
Hamilton..... HL	659,715	2,417	123	224	6,071	1,915	1,347	647,519
Lander..... LA	164,719	909	123	90	0	4,055	500	158,892
Lincoln..... LI	73,292	954	78	0	0	202	192	71,566
Lyon..... LY	399,490	5,301	325	173	3,248	717	1,178	388,073
Mineral..... MI	42,048	1,117	291	0	0	605	90	40,123
Nye..... NY	88,928	2,900	353	370	0	6,940	538	79,597
Pershing..... PE	197,429	766	212	0	0	280	538	195,420
Storey..... ST	7,087	262	67	0	594	163	0	0
Washoe..... WA	259,635	51,443	13,407	3,276	0	330	4,055	178,685
White Pine..... WP	107,243	2,760	280	0	0	1,098	3,502	99,222
NEVADA..... NV	4,174,112	231,570	65,627	18,426	29,022	27,309	29,028	3,749,955

Table Notes:

(1) Water Use and Water Withdrawals are equivalent terms for all uses. In some cases, surface uses do not require the term "Use".

(2) Total Water Withdrawals All Uses includes all withdrawals both public supplied and self-supplied. Also includes pumped and used as provided in Table 1 including consumptive use. For comprehensive use see Table 2.

(3) Total Domestic, Commercial, Industrial, and Thermoelectric water withdrawals includes self-pumped water and self-supplied water use, Total Mining

Use. Withdrawals include both consumptive use (i.e., process) and non-consumptive use (i.e., return use) (4).

(4) One acre foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS), U.S. Department of Agriculture (USDA), Nevada Agricultural Statistics Service, Nevada Division of Water Planning (NDWP).

[2] Nevada Public Supplied Water Use

1985

Public Supplied Water Withdrawals by Principal Use (Acre-Feet per Year)

Rev. 11/21/98

County and County Code	Population Served by Public Supplied Water (Persons)	Total Public Supplied Water	Domestic Public Supplied Water	Commercial Public Supplied Water	Industrial Public Supplied Water	Thermo-Electric Public Supplied Water	Public Use and Losses	Public Supplied Water Use Per Person (Gallons/Day)	
Carson City.....	CC	33,928	9,576	6,799	1,075	672	0	809	246.7
Churchill.....	CH	8,625	2,537	960	125	34	0	213	281.6
Clark.....	CL	542,467	208,955	133,031	42,397	1,837	2,744	29,043	542.4
Douglas.....	DO	14,613	6,105	3,018	515	56	0	515	373.0
Elko.....	EL	19,298	9,657	6,651	1,512	0	0	1,714	456.0
Esmeralda.....	ES	937	157	145	11	0	0	0	149.4
Eureka.....	EU	538	157	134	11	0	0	11	280.2
Humboldt.....	HU	6,919	1,591	1,125	78	78	0	78	235.9
Lander.....	LA	5,905	955	682	123	90	0	90	266.3
Lincoln.....	LI	3,312	975	859	45	0	0	101	302.7
Lyon.....	LY	8,611	3,607	2,972	269	101	0	325	373.9
Masoni.....	MI	5,657	1,425	1,071	269	0	0	123	224.5
Nye.....	NY	7,611	2,363	1,647	224	317	0	146	376.0
Pershing.....	PE	2,768	1,008	54	224	0	0	150	325.1
Storey.....	ST	1,402	269	157	55	0	0	56	171.1
Washoe.....	WA	206,167	79,770	47,617	12,960	3,842	0	6,353	506.4
White Pine.....	WP	6,445	2,012	2,152	216	0	0	94	403.4
NEVADA.....	NV	871,336	322,143	211,896	60,340	7,057	2,744	40,101	330.1

Table Notes:

(1) "Water Use" and "Water Withdrawals" are equivalent terms but include the state of COG (COG) (1985) and do not include the other states.

(2) Population and the "Public Supplied Water" are based on the public water systems only.

(3) "Total Public Supplied Water" includes water supplied by public water supply systems and other public water supply systems. It is based on the "Municipal and Industrial" or "M&I" accounts.

(4) The reported is equivalent to 225,351 acre-feet.

Source: U.S. Geological Survey (USGS) Nevada Division of Water Planning (NDWP).



[3] Nevada Self-Supplied and Other Water Uses

1985

Self-Supplied, Mining, Livestock, Irrigation Water Use (Acre-Foot per Year)

Rev. 11/2/84

County and County Code	Total Water Withdrawals All Uses	Total Public Supplied Water	Domestic Self-Supplied Water	Commercial Self-Supplied Water	Industrial Self-Supplied Water	Thermal-Electric Self-Supplied Water	Mining Water Withdrawals Consumptive Use Only	Livestock and Irrigation Water Withdrawals
Carson City..... CC	13,316	9,376	311	32	280	0	0	3,027
Churchill..... CH	159,501	2,532	1,560	45	269	45	269	254,782
Clark..... CL	290,429	208,355	4,248	6,054	9,028	6,320	1,411	53,521
Douglas..... DO	247,844	6,185	2,592	114	163	0	381	232,064
Elko..... EL	1,058,581	9,857	944	137	0	0	2,733	1,044,605
Esmeralda..... ES	40,880	157	84	11	0	0	4,850	35,778
Eureka..... EU	186,484	157	171	11	0	0	1,319	182,796
Humboldt..... HU	659,715	1,291	1,062	43	146	6,871	1,913	644,886
Lake..... LA	164,719	985	226	0	0	0	4,033	159,452
Linenbach..... LI	71,273	975	105	34	0	0	302	70,958
Lyon..... LY	359,490	3,607	2,489	56	22	1,246	717	359,451
Mason..... MA	43,348	1,425	86	22	0	0	605	40,713
May..... MY	88,938	2,163	1,341	134	22	0	4,940	80,135
Pershing..... PE	197,429	1,008	172	11	0	0	280	195,958
Storey..... ST	,067	269	45	11	0	594	168	0
Washoe..... WA	239,635	70,770	3,828	526	1,434	0	336	182,740
White Pine..... WP	107,243	2,912	415	34	0	0	1,058	102,784
NEVADA..... NV	4,194,112	322,143	19,673	8,287	11,569	26,278	27,309	3,779,013

Table Notes:

- (1) "Water Use" and "Water Withdrawals" are reported in acre-feet, but do not include non-consumptive use, or return flow to rivers.
- (2) "Total Public Supplied Water" includes domestic, commercial, industrial, and livestock water supplied by public water supply providers.
- (3) "Total Self-Supplied Water" is water from either public or private water systems serving a limited use and/or a limited number of users.
- (4) Mining water withdrawals includes non-consumptive uses, i.e., water recycling.
- (5) Other uses are reported in 100,000 gallons.

Source: U.S. Geological Survey (USGS), USDA Nevada Agricultural Statistics Service, Nevada Division of Water Planning (NDWP).

[4] Nevada Domestic, M&I, and Total Water Use per Capita

1985

Domestic Public and Self-Supplied, M&I, Adjusted M&I, Total Use (Gallons/Day)

Rev. 10/22/89

County and County Order	Total Nevada and County Resident Population (Persons)	Population Served by Public Supplied Water (Persons)	Percent of Population Served by Public Supply Water Systems	Domestic Public Supplied Water Use per Person (Gallons/Day)	Domestic Self-Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial (M&I) Public Supplied Water Use per Person (Gallons/Day)	Public and (Partial) Self-Supplied Water Use per Person (Gallons/Day)	
Carson City.....	CC	35,950	33,928	95.2%	178.9	161.7	246.7	262.8
Churchill.....	CH	15,128	8,025	53.1%	258.1	196.3	281.6	490.1
Clark.....	CL	562,280	542,467	96.5%	217.5	195.6	342.4	375.5
Douglas.....	DO	23,000	14,613	63.5%	306.4	273.9	373.0	549.8
Elko.....	EL	22,350	19,298	86.3%	306.8	276.1	456.0	519.9
Esmeralda.....	ES	1,540	937	60.8%	135.7	124.4	149.4	240.1
Eureka.....	EU	1,300	539	41.4%	229.0	209.3	260.2	562.6
Humboldt.....	HO	11,260	6,019	53.5%	201.0	180.9	235.9	421.7
Lander.....	LA	4,500	3,305	73.4%	184.6	166.1	266.3	327.1
Lincoln.....	LI	5,780	3,317	57.2%	223.1	200.2	263.3	300.0
Lyon.....	LY	16,460	8,611	52.3%	301.9	271.7	373.9	629.8
Mineral.....	MI	6,180	5,657	91.5%	162.6	146.8	224.5	241.6
Nye.....	NY	14,570	7,641	52.5%	192.3	173.1	296.0	451.2
Perkins.....	PE	3,660	2,768	75.3%	191.5	172.1	325.1	384.2
Storey.....	ST	1,830	1,401	76.5%	99.8	89.9	171.1	206.8
Washoe.....	WA	224,580	206,165	91.8%	206.2	185.6	306.4	331.5
White Pine.....	WP	7,750	6,445	83.2%	325.8	292.0	403.1	465.5
NEVADA.....	NV	955,810	871,136	91.1%	217.2	207.4	330.1	370.4

Table Notes:

- (1) "Water Use" and "Water Withdrawals" are equivalent terms. For almost the same reasons supplies use does not equal demand flows.
 - (2) "Domestic Public Supplied Water Use per Person (Gallons/Day)" equals public supplied water use divided by population served by public supply systems.
 - (3) "Domestic Self-Supplied Water Use per Person (Gallons/Day)" equals self-supplied water use divided by persons served by self-supplied systems.
 - (4) "Municipal and Industrial Water Use per Person (Gallons/Day)" is based on public supply of water per population served by public supply water systems.
 - (5) "Public and (Partial) Self-Supplied Water Use per Person (Gallons/Day)" is based on both public supplied water (i.e., M&I water use) and on (partial) water for domestic, commercial and industrial use only, divided by the total population. Excludes self-supplied thermoelectric water use and oil mining water use.
- Source: U.S. Geological Survey (USGS), USDA Nevada Agricultural Statistics Service; Nevada State Demographer.



[5] Nevada Domestic and Commercial & Industrial Water Uses

1985

Domestic, Commercial & Industrial Water Use (Acre-Foot/Year and Gallons/Day)

Rev. 4/12/90

County and County Code	Total Domestic Water Withdrawals	Domestic Consumption Water Use	Domestic Consumption Use as Percent of Withdrawals	Total Domestic Water Use per Person (Gallons/Day)	Total Commercial and Industrial Water Withdrawals	Commercial and Industrial Consumption Water Use	Commercial and Industrial Consumption Use as Percent of Withdrawals	Commercial and Industrial Water Use per Worker (Gallons/Day)
Carson City..... CC	7,110	3,661	51.5%	178.3	7,050	414	20.2%	105.1
Churchill..... CH	3,520	1,664	47.0%	207.8	672	145	21.6%	141.3
Clark..... CL	136,371	68,678	50.4%	216.5	60,016	11,828	19.7%	218.8
Douglas..... DO	7,610	3,970	52.2%	295.4	674	291	21.8%	45.4
Ely..... EL	7,575	3,642	50.7%	402.6	1,949	392	20.1%	165.0
Hesperida..... ES	250	115	50.0%	143.1	22	0	0.0%	15.4
Eureka..... EU	305	164	54.7%	205.7	22	0	0.0%	19.5
Humboldt..... HI	2,417	1,249	51.3%	191.7	47	55	16.0%	75.6
Lincoln..... LA	909	467	51.4%	179.6	213	27	12.5%	112.4
Lincoln..... LI	934	475	50.9%	220.6	75	22	28.6%	41.3
Lyon..... LY	5,501	2,814	51.1%	287.5	448	112	25.0%	114.3
Mason..... MI	1,117	505	50.0%	161.5	29	56	19.2%	111.0
Nye..... NY	2,990	1,379	46.1%	183.7	734	202	27.5%	85.4
Pershing..... PE	766	400	52.2%	186.8	245	45	19.0%	125.1
Storey..... ST	202	113	56.0%	97.4	67	11	16.0%	101.4
Wadeville..... WA	51,445	25,567	50.0%	704.5	18,764	3,764	20.1%	140.1
White Pine..... WP	2,767	1,408	50.9%	320.4	280	50	17.9%	92.2
NEVADA..... NV	231,560	117,221	50.6%	246.3	87,053	15,215	19.9%	175.2

Total Nevada

(1) "Water Use" and "Water Withdrawal" are estimates. Actual values will be water as consumed in the state as well as water used for other purposes.

(2) Total Domestic Water Withdrawals and Total Commercial and Industrial Water Withdrawals include both public supplied and self-supplied water.

(3) Total Domestic Water Use per Person (Gallons/Day) equals Total Domestic Water Withdrawals divided by resident population in gallons per day.

(4) Total Commercial and Industrial Water Use per Worker (Gallons/Day) equals Total Commercial and Industrial Water Withdrawals divided by average employment in manufacturing and service industries per worker per day.

(5) One acre-foot is equivalent to 325,851 gallons.

Source: U.S. Geological Survey (USGS).

[6] Nevada Livestock and Irrigation Water Uses

1985

(Livestock and Irrigation Water Use Analysis (Acre-Feet per Year))

Rev. 11-20-98

County and County Code	Livestock Water Withdrawals	Livestock Consumption Water Use	Livestock Consumption Percent of Withdrawals	Total Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use Percent of Irrigation Withdrawals	Total Livestock and Irrigation Water Withdrawals	Total Livestock and Irrigation Water Use as Percent of Total Withdrawals
Carson City..... CC	67	56	80.0%	3,260	1,561	46.0%	3,327	25.0%
Churchill..... CH	1,388	506	34.8%	353,464	163,182	46.2%	354,852	98.7%
Clark..... CL	4,985	685	13.7%	48,536	34,935	71.4%	53,521	17.9%
Douglas..... DG	717	215	29.7%	311,947	105,909	45.7%	312,664	96.1%
Elko..... EL	8,681	2,173	25.0%	1,028,028	529,642	51.1%	1,044,009	98.7%
Esmeralda..... ES	215	215	100.0%	35,540	22,392	62.7%	35,755	87.5%
Eureka..... EU	605	116	19.0%	182,191	106,268	58.3%	182,796	98.0%
Humboldt..... HU	1,267	618	46.8%	647,519	335,618	52.5%	648,886	98.4%
Lander..... LA	580	280	50.0%	158,892	84,201	53.0%	159,452	96.8%
Linenath..... LI	102	215	60.0%	71,566	46,811	65.4%	71,958	98.2%
Lyon..... LY	1,378	405	29.4%	288,073	176,881	45.6%	289,451	97.5%
Masoni..... MI	90	90	100.0%	43,123	8,550	19.2%	43,213	95.0%
Nye..... NY	538	314	58.3%	79,597	51,090	64.2%	80,135	98.1%
Pershing..... PE	538	221	41.7%	195,400	103,931	53.2%	195,938	99.0%
Storey..... ST	0	0	--	0	0	--	0	0.0%
Washoe..... WA	4,635	430	10.8%	178,685	88,435	49.5%	182,740	70.4%
White Pine..... WP	3,562	426	11.9%	99,332	61,589	62.0%	102,784	95.5%
NEVADA..... NV	20,058	7,405	25.5%	3,749,955	1,934,047	51.6%	3,779,013	90.4%

Table Notes:

- (1) Water Use and Water Withdrawals are equivalent unless otherwise noted with an explanatory note; data is reported for 1984 flows.
 - (2) One acre-foot is equivalent to 325,857 gallons.
- Source: U.S. Geological Survey (1986); USDA Nevada Agriculture Statistics Service, Nevada Division of Water Planning (1987).



[7] Nevada Irrigation Water Use Analysis

1985

Irrigation Water Withdrawals, Consumptive Use, Conveyance Losses, and Water Duty
(Acre-Feet per Year and Acre-Feet per Acre per Year)

County and County Code	Total Irrigation Water Withdrawals	Irrigation Consumptive Use	Irrigation Consumptive Use as Percent of Irrigation Withdrawals	Irrigation Conveyance Losses	Conveyance Losses as Percent of Irrigated Withdrawals	Total Irrigated Acreage (Acres)	Irrigation Water Withdrawal Rate (Acre-Feet per Acre per Year)	Irrigation Conveyance Losses (Acre-Feet per Acre per Year)
Carson City .. CC	7,268	1,501	15.0%	963	29.6%	740	4.4	1.3
Clark..... CT	353,194	153,182	46.0%	104,555	29.2%	61,030	5.5	1.6
Clark..... CL	48,546	34,624	71.4%	2,711	5.0%	9,940	3.2	0.3
Douglas..... DG	231,947	105,509	45.7%	59,303	29.9%	47,620	4.9	1.5
Elko..... EL	1,035,928	520,600	51.1%	224,019	21.6%	243,960	4.2	0.9
Esmeralda..... ES	35,542	22,102	60.7%	3,685	10.4%	8,540	4.3	0.4
Esmeralda..... ES	182,191	106,268	58.3%	25,987	14.3%	48,040	3.8	0.5
Hendrick..... HE	947,519	228,618	22.1%	126,958	13.5%	133,890	4.2	0.8
Lander .. LA	158,893	84,201	53.0%	10,365	19.0%	35,040	4.5	0.8
Linn..... LI	11,505	46,511	65.1%	4,714	6.0%	17,000	4.2	0.1
Lyon..... LY	588,075	176,681	45.6%	116,091	29.9%	76,970	5.0	1.5
Mineral..... MI	40,123	18,350	44.1%	11,750	29.3%	7,410	5.1	1.5
Nye..... NY	19,587	11,090	61.3%	7,975	10.6%	19,350	4.1	0.4
Perkins..... PE	195,420	101,982	51.3%	36,718	18.6%	42,220	1.6	0.9
Sage..... ST	0	0	—	0	—	0	—	—
Washoe..... WA	178,685	88,414	49.5%	45,419	25.4%	39,770	4.5	1.1
White Pine..... WP	99,222	61,859	62.3%	19,585	19.7%	29,320	3.4	0.4
NEVADA..... NV	3,749,955	1,934,047	51.6%	820,445	21.9%	843,760	4.4	1.0

1,000 Acres

(1) "Water Use" and "Water Withdrawal" are reported from the user to the water user's water right, to the extent of return flow.

(2) Irrigation Water Withdrawal Rate (Acre-Feet per Acre per Year) is calculated by dividing "Total Irrigation Water Withdrawals" by "Total Irrigated Acreage."

(3) Irrigation Conveyance Losses (Acre-Feet per Acre per Year) is calculated by dividing "Irrigation Conveyance Losses" by "Total Irrigated Acreage."

(4) 1 acre-foot is equivalent to 2.23831 gallons.

Source: U.S. Geological Survey (USGS), USBR, Nevada Agricultural Water Services Nevada Department of Water Planning (NDWP)

[8] Nevada Irrigation and Farm Marketings Analysis

1985

Irrigated Acreage, Irrigation Water Withdrawals, and Value of Farm Marketings

(Acres, Acre-Feet per Year, Acre-Feet per Acre per Year, and Dollars)

REV. 11/2/84

County and County Code		Estimated Total Irrigated Acreage (Acres)	Percent of Total State	Irrigation and Livestock Water Withdrawals (AF/Year)	Percent of Total State	Livestock and Irrigation Water Use (Acre-Feet per Acre per Year)	Value of Total Farm Marketings (\$MM)	Value of Farm Marketings per Acre-Feet (Dollars)	Value of Farm Marketings per Irrigated Acre (Dollars)
Carson City.....	CC	740	0.09%	1,527	0.39%	4.5	\$739	\$232	\$989
Churchill.....	CI	64,080	7.59%	354,782	9.39%	5.5	15,957	96	530
Clatsop.....	CL	9,340	1.11%	53,921	1.42%	5.7	15,533	286	1,612
Douglas.....	DI	47,620	5.64%	232,664	6.16%	4.9	9,012	39	186
Elko.....	EI	243,960	28.91%	1,044,609	27.64%	4.3	13,579	33	137
Fernando.....	ES	8,540	0.99%	33,778	0.95%	4.3	4,620	129	354
Gardner.....	GU	48,040	5.69%	182,736	4.84%	3.8	11,370	68	237
Humboldt.....	HU	153,800	18.24%	648,886	17.17%	4.2	35,161	54	228
Lander.....	LA	35,540	4.21%	159,452	4.22%	4.5	5,756	36	162
Lincoln.....	LI	11,060	1.30%	71,958	1.93%	4.2	4,112	57	241
Lyon.....	LY	56,920	6.73%	389,451	10.11%	5.1	40,796	103	536
Mineral.....	MI	7,140	0.88%	40,213	1.05%	5.4	955	24	128
Nye.....	NY	19,350	2.29%	80,135	2.12%	4.1	5,164	68	282
Pershing.....	PE	42,220	5.04%	195,958	5.19%	4.6	22,384	113	523
Storey.....	SI	0	0.00%	0	0.00%	0	0	0	0
Washoe.....	WA	59,770	7.11%	182,740	4.84%	4.6	9,819	34	245
White Pine.....	WP	24,120	2.87%	100,784	2.72%	4.5	8,338	51	285
NEVADA.....	NV	843,760	100.00%	3,479,013	100.00%	4.5	\$240,950	\$64	\$286

Table Notes:

(1) "Water Use" and "Water Withdrawals" are equivalent terms and do not represent net water losses.

(2) "Livestock and Irrigation Water Use (Acre-Feet per Acre per Year)" calculated by dividing the "Irrigation and Livestock Water Withdrawals" by the "Irrigated Acreage."

(3) "Value of Farm Marketings per Acre-Feet and per Square Acre (Dollars)" calculated by dividing the "Value of Total Farm Marketings" by either "Irrigation and Livestock Water Withdrawals" or by "Irrigated Acreage."

Source: USGS, USGS, Nevada Agricultural Statistics Service, U.S. Department of Commerce, Bureau of Economic Analysis (BEA), Nevada Director of Water Planning (DWP).

[9] Commercial, Industrial, Thermoelectric and Mining Water Uses

1985

Commercial, Industrial, Thermoelectric, and Mining Water Use Analysis

(Acre-Feet per Year and Gallons per Worker per Day)

Rev. 11/23/88

County and County Code	Total Acreage and County Co-coded Employment	Total Commercial and Industrial Water Withdrawals	Total Thermoelectric Water Withdrawals	Mining Water Withdrawals for Consumptive Use Only	Mining Water Withdrawals Not Consumptive Use	Commercial and Industrial Public Supplied Water Use per Worker (Gallons/Day)	Total Commercial and Industrial Water Use per Worker (Gallons/Day)	Commercial and Industrial Water Use per Working Hour (Gallons/Hour)
Carson City..... CC	17,408	3,050	0	0	0	89.6	105.1	105.4
Churchill..... CH	4,246	672	45	269	0	75.4	141.5	142.8
Clark..... CL	244,069	66,076	19,664	1,411	0	161.3	213.8	219.0
Douglas..... DG	17,185	874	0	381	0	29.7	45.4	45.6
Elko..... EL	10,546	1,949	0	2,753	0	128.0	165.0	178.1
Esmeralda..... ES	451	22	0	4,850	0	23.2	46.4	101.5
Eureka..... EK	1,610	22	0	2,349	0	9.9	19.8	53.5
Humboldt..... HU	4,046	547	6,071	1,915	0	34.6	76.6	84.9
Lander..... LA	1,691	213	0	4,055	0	112.4	112.4	224.6
Lyon..... LY	1,693	78	0	202	0	23.6	41.3	92.5
Lincoln..... LI	3,499	448	3,748	77	0	94.4	114.4	118.8
Mineral..... MI	2,335	291	0	605	0	102.8	111.3	136.8
Nye..... NY	9,783	728	0	4,940	0	52.1	60.4	73.0
Persimmon..... PE	1,069	235	0	280	0	187.1	196.4	240.3
Storey..... ST	588	67	504	168	0	86.2	103.4	132.2
Washoe..... WA	119,471	18,767	0	236	0	125.6	146.3	141.1
White Pine..... WP	2,712	280	0	1,095	0	81.1	92.2	108.7
NEVADA..... NV	443,527	87,053	29,022	27,349	0	135.7	175.2	177.7

Table Seven

- (1) "Water Use" and "Water Withdrawal" are equivalent terms, but the two definitions are separate and do not account for "Net Flow".
- (2) "Total Acreage and County Co-coded Employment" includes various federal, state and local government programs.
- (3) Commercial, Industrial, Thermoelectric, and Mining water withdrawals include both public-supplied and self-supplied water. Mining includes domestic.
- (4) "Per Worker" usage is calculated by dividing the appropriate water use (commercial, public-supplied only, total commercial, etc.) both public and self-supplied water use or just commercial and total industrial water use only by the number of water-covered employees.

Source: U.S. Geological Survey (USGS); Nevada Department of Employment, Training and Rehabilitation (NETR)

1101 Nevada Water Usage Rate Analysis

1985

Population and Employment Water Usage Rate Summary and Analysis

(Acres-Foot per Year, Except per Capita and per Worker Usage Rates)

Rev. 11/23/86

County and County Code	Total Nevada and County Population (Persons)	Total Water Withdrawals Excluding Mine Dewatering	Percent of Total Water Withdrawals	Total Domestic Water Withdrawals per Person (Gallons/Day)	Domestic Public Supplied Water Use per Person (Gallons/Day)	Municipal and Industrial Public Supplied Water Use per Person (Gallons/Day)	Commercial and Industrial Water Use per Working Emp. (Gallons/Day)	Mining Water Withdrawals per Mining Worker (Gallons/Day)
Carson City..... CC	13,630	13,316	0.32%	78.1	178.9	246.7	115.4	0
Churchill..... CH	15,120	359,501	8.57%	207.8	213.1	281.6	142.8	5,581
Clark..... CL	562,280	799,429	7.14%	216.5	217.3	42.4	219.0	5,301
Douglas..... DG	23,000	247,044	5.77%	293.4	306.6	473.1	45.5	4,857
Essex..... EE	22,350	1,038,581	25.24%	302.6	306.8	456.0	178.1	1,152
Genesee..... ES	1,540	40,880	0.97%	133.1	138.7	149.4	101.5	5,504
Esmeralda..... EU	1,300	186,484	4.45%	204.7	224.0	260.2	52.5	4,701
Humboldt..... HU	11,260	659,715	15.73%	191.7	201.0	215.9	81.9	4,351
Lander..... LA	4,520	164,719	3.93%	179.6	184.0	266.3	221.6	4,284
Lyon..... LY	3,780	73,275	1.75%	220.6	223.4	362.7	42.4	1,330
Lincoln..... LY	16,460	599,490	9.53%	237.5	301.9	353.9	18.8	4,886
Mineral..... MI	6,180	47,548	1.01%	161.3	167.0	234.5	26.8	1,501
Nye..... NY	14,570	88,948	2.12%	183.3	192.4	276.0	71.0	4,889
Pershing..... PE	3,660	197,429	4.71%	136.5	191.5	325.1	240.5	1,553
Storey..... ST	1,850	1,087	0.03%	97.4	59.8	171.1	132.2	1,180
Washoe..... WA	224,580	259,635	6.19%	204.5	206.2	306.4	141.1	427
White Pine..... WP	7,710	187,241	4.56%	230.4	425.8	403.7	198.7	2,179
NEVADA	935,810	4,194,112	100.00%	216.3	217.2	350.1	177.7	4,009

Foot Notes:

- (1) Water Use and Water Withdrawals are reported in acre-feet per year on the basis of the water use and withdrawal functions listed.
 - (2) Total Water Withdrawals Excluding Mine Dewatering is the mining water withdrawal less mine dewatering.
 - (3) Total Domestic Withdrawals per Person (Gallons/Day) includes public supplied water and self-supplied water divided by the total population.
 - (4) Municipal and Industrial Water Use per Person (Gallons/Day) includes public supplied water and self-supplied water divided by the total population.
 - (5) Mining Water Withdrawals per Mining Worker is based on comprehensive use and does not include mine dewatering, flow, non-ferrous processing.
 - (6) Commercial and Industrial Water Use per Worker equals commercial and industrial (public and self-supplied) water divided by total commercial employment.
- Source: USDA Nevada Agricultural Statistics Service; Nevada State Department of Employment, Training and Rehabilitation (DETR);

[11] Nevada Household Water Usage Rate Analysis

1985

Water Withdrawals for Population and Occupied Housing Units

(Acre-Feet per Year, Except per Household and per Capita Usage Rates)

Rev. 11/23/88

County and County Codes	Total Nevada and County Resident Populations (Persons)	Total Nevada and County Covered Employment	Households (Occupied Housing Units)	Average Number of Persons per Occupied Housing Unit	Average Number of Workers per Occupied Housing Unit	Total Domestic Water Withdrawals	Total Domestic Water Use per Household (Gallons/Day)	Total Domestic Water Withdrawal per Person (Gallons/Day)
Coronado City	400	17,406	13,638	2.6	1.2	7,110	458.7	178.1
Churchill	15,120	4,246	5,569	2.7	0.8	3,570	564.4	237.8
Clark	562,290	244,869	209,519	2.7	1.3	146,771	781.1	216.5
Douglas	23,000	17,185	8,562	2.7	2.0	7,010	784.4	295.4
Elko	32,350	10,546	7,794	2.9	1.4	7,575	867.6	302.6
Esmeralda	1,540	431	671	2.3	0.6	230	305.6	133.1
Eureka	1,300	1,916	517	2.5	2.0	305	526.9	204.7
Humboldt	11,200	4,046	3,025	2.9	1.0	2,417	549.9	191.7
Lander	4,520	1,591	1,577	2.9	1.1	909	514.7	179.6
Lincoln	3,780	7,697	1,215	2.9	1.3	931	654.2	220.6
Lyon	16,400	1,400	6,143	2.7	0.6	3,301	770.9	287.5
Manassah	6,180	2,333	2,415	2.6	1.0	1,117	412.6	151.3
Nye	14,570	9,783	5,138	2.7	1.8	3,090	506.0	183.2
Pershing	3,660	1,069	1,298	2.8	0.8	766	526.5	186.8
Storey	1,850	580	727	2.5	0.8	262	347.8	97.4
Washoe	224,580	119,421	89,178	2.5	1.3	51,445	514.0	204.5
White Pine	7,710	2,712	2,701	2.9	1.0	3,269	914.8	326.4
NEVADA	955,810	443,527	360,554	2.7	1.2	231,569	573.4	216.4

Table Notes:

- (1) Water Use and Water Withdrawals are equivalent terms, but do not include water consumption by livestock.
- (2) Total Nevada and County Covered Employment includes persons covered under state and federal unemployment insurance programs.
- (3) HOUSEHOLDS equal ALL occupied housing units, not the sum of all housing units.
- (4) Total Domestic Water Withdrawals includes both public supplied and self-supplied water for use by all households in the State. U.S. Geological Survey (1983); Nevada State Geographer, U.S. Bureau of the Census; Nevada Department of Employment.

[12] Nevada Water Use by Category Share Analysis

1985

Shares of Total Water Withdrawals by Principal Use Category (Percent)

Rev. 11/23/88

County and County Codes	Total Domestic Water Withdrawals	Total Commercial Water Withdrawals	Total Industrial Water Withdrawals	Total Thermal Electric Water Withdrawals	Total Mining Water Withdrawals	Total Livestock Water Withdrawals	Total Irrigation Water Withdrawals	Total Public Use and Losses
Carson City..... CC	59.40%	8.24%	7.13%	0.00%	0.00%	0.50%	24.78%	6.22%
Churchill..... CH	0.98%	0.10%	0.08%	0.01%	0.07%	0.15%	98.53%	0.06%
Clark..... CL	43.54%	16.41%	5.63%	6.37%	0.47%	1.66%	16.21%	9.70%
Douglas..... DG	9.14%	0.27%	0.09%	0.00%	0.16%	0.30%	92.85%	0.21%
Elko..... EL	0.72%	0.18%	0.00%	0.00%	0.36%	0.80%	97.85%	0.16%
Hemmiñón..... HS	0.56%	0.05%	0.00%	0.00%	11.86%	0.58%	86.94%	0.00%
Hopkn..... HO	0.16%	0.01%	0.00%	0.00%	1.80%	0.43%	91.40%	0.01%
Humboldt..... HU	0.17%	0.02%	0.03%	0.92%	0.29%	0.21%	98.19%	0.01%
Lander..... LA	0.32%	0.07%	0.05%	0.00%	2.46%	0.34%	96.40%	0.05%
Lincoln..... LI	1.27%	0.11%	0.30%	0.00%	0.28%	0.54%	97.67%	0.14%
Lyon..... LY	1.33%	0.08%	0.03%	0.81%	0.18%	0.34%	97.14%	0.08%
Mineral..... MI	2.64%	0.65%	0.01%	0.00%	1.49%	0.21%	94.74%	0.29%
Nye..... NY	3.36%	0.40%	0.22%	0.00%	5.55%	0.60%	80.50%	0.16%
Perching..... PS	0.39%	0.12%	0.00%	0.00%	0.14%	0.27%	98.98%	0.10%
Storey..... ST	18.37%	6.18%	0.00%	54.63%	15.45%	0.00%	0.00%	5.15%
Washoe..... WA	19.87%	5.19%	2.03%	0.00%	0.13%	1.56%	68.82%	2.45%
White Pine..... WP	2.58%	0.26%	0.00%	0.00%	1.00%	3.02%	92.32%	0.29%
NEVADA..... NV	5.52%	1.64%	0.44%	0.69%	0.65%	0.09%	80.41%	0.96%

Table Notes:

(1) Water Use and Water Withdrawals are reported in terms of an average year which represents the average annual flow for 1970-1995.

(2) Shares by category are measured as percent of Total Water Withdrawals. All "Use" categories include all water withdrawn both self-supplied and not self-supplied. Total withdrawals include the "Public Use and Losses" presented on Table 3 and all mining withdrawals on Table 5.

(3) Total domestic, commercial, industrial, and public use water withdrawals include both public supplied and self-supplied; Total mining water use includes self-consumption (processing) and non-consumptive use (leachate, etc.).

Source: Year 1985 Strategic Review (1988); USDA-NASA's Agricultural Services Service Nevada Division of Water Planning (NDWP)



Appendix 1B

WATER WITHDRAWAL DATA TABLES

Table 1 – Public Supply Water Use

Table 2 – Commercial Water Use

Table 3 – Domestic Water Use

Table 4 – Industrial Water Use

Table 5 – Thermoelectric Power Water Use

Table 6 – Mining Water Use

Table 7 – Livestock Water Use

Table 8 – Irrigation Water Use

Table 9 – Hydroelectric Power Water Use

Table 10 – Water Use by Category–1

Table 11 – Water Use by Category–2

Table 12 – Water Use by Source

Public Supply Water Use - NDWP

COUNTY	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			DELIVERIES, AFY					PUBLIC USE AND LOSSES, AFY	DOMESTIC DELIVERIES PER CAPITA USE, GPCD	TOTAL WITHDRAWALS PER CAPITA USE, GPCD	CONSUMPTIVE USE Use, AFY
		GROUND WATER	SURFACE WATER	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	THERMO ELECTRIC	TOTAL				
1995													
Carson City	42.18	6,172	3,170	9,342	6,463	1,210	829	0	8,502	840	137	198	3,528
Churchill	12.92	3,573	0	3,573	2,151	336	34	0	2,520	1,053	149	247	1,165
Clark	1,014.8	51,157	328,764	379,921	242,109	102,684	1,221	1,624	347,638	32,283	213	334	141,652
Douglas	32.32	10,406	672	11,078	9,566	1,165	0	0	10,731	347	264	306	4,895
Elko	40.15	14,920	0	14,920	10,888	2,677	0	0	13,565	1,355	242	332	5,623
Esmeralda	1.13	302	0	302	213	45	0	0	258	45	168	238	123
Eureka	1.18	426	0	426	325	67	0	0	392	34	247	323	168
Humboldt	10.75	4,201	0	4,201	3,047	773	0	0	3,820	381	253	349	1,669
Lander	5.18	1,423	0	1,423	1,109	146	0	0	1,255	168	191	245	594
Lincoln	3.21	1,550	0	1,550	1,082	330	0	0	1,412	138	301	431	624
Lyon	24.35	5,746	0	5,746	3,853	1,165	56	0	5,074	672	141	211	2,005
Mineral	5.29	1,255	0	1,255	930	280	0	0	1,210	45	157	212	526
Nye	15.73	6,127	0	6,127	4,077	672	0	0	4,749	1,378	231	348	2,229
Pershing	4.54	1,736	0	1,736	1,199	403	0	0	1,602	134	236	341	661
Storey	2.03	34	291	325	224	67	0	0	291	34	99	143	123
Washoe	262.81	19,726	59,659	79,385	52,322	17,441	314	0	70,076	9,308	178	270	29,280
White Pine	8.99	3,204	347	3,551	3,047	246	0	0	3,293	258	302	352	1,579
TOTAL	1,487.6	131,958	392,903	524,861	342,605	129,707	2,454	1,624	476,388	48,473	206	315	196,444

Source: U.S. Geological Survey; modifications by Nev. Division of Water Planning

Commercial Water Use - NDWP

COUNTY	SELF-SUPPLIED WITHDRAWALS, AFY			SELF-SUPPLIED CONSUMPTIVE USE, AFY	PUBLIC SUPPLY COMMERCIAL DELIVERIES, AFY	PUBLIC SUPPLY COMMERCIAL CONSUMPTIVE USE, AFY	SELF-SUPPLIED + PUBLIC SUPPLY COMMERCIAL	
	BY SOURCE		TOTAL				WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER						
1995								
Carson City	11	0	11	0	1,210	224	1,221	224
Churchill	784	0	784	157	336	67	1,120	224
Clark	919	8,390	9,308	1,703	102,684	18,818	111,992	20,521
Douglas	1,826	0	1,826	168	1,165	112	2,991	280
Elko	224	5,041	5,265	370	2,677	190	7,942	560
Esmeralda	0	0	0	0	45	11	45	11
Eureka	0	0	0	0	67	11	67	11
Humboldt	78	0	78	11	773	146	851	157
Lander	0	0	0	0	146	34	146	34
Lincoln	34	0	34	11	330	83	364	94
Lyon	2,800	0	2,800	157	1,165	67	3,965	224
Mineral	0	0	0	0	280	56	280	56
Nye	112	0	112	56	672	302	784	358
Pershing	11	0	11	0	403	56	414	56
Storey	0	0	0	0	67	11	67	11
Washoe	1,120	2,128	3,248	560	17,441	3,024	20,689	3,584
White Pine	0	0	0	0	246	56	246	56
TOTAL	7,919	15,559	23,477	3,193	129,707	23,268	153,184	26,461

Domestic Water Use - NDWP

COUNTY	SELF-SUPPLIED DOMESTIC						PUBLIC SUPPLY DOMESTIC				SELF-SUPPLIED + PUBLIC SUPPLY DOMESTIC		
	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	POPULATION SERVED, IN THOUSANDS	DELIVERIES, AFY	PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	PER CAPITA TOTAL, GPCD
		GROUND WATER	SURFACE WATER	TOTAL									
Carson City	4.59	633	0	633	123	316	42.18	6,463	137	3,237	7,096	3,553	135
Churchill	8.72	1,294	12	1,306	134	652	12.92	2,151	149	1,087	3,457	1,739	143
Clark	21.42	4,580	18	4,600	192	2,300	1,014.87	242,109	213	120,852	246,709	123,152	213
Douglas	3.56	902	45	947	238	485	32.32	9,566	264	4,783	10,513	5,268	262
Elko	2.90	687	20	707	218	353	40.15	10,888	242	5,433	11,595	5,786	240
Esmeralda	0.50	84	0	84	151	41	1.13	213	168	112	297	153	163
Eureka	0.40	100	0	100	222	49	1.18	325	247	157	425	206	240
Humboldt	5.52	1,386	21	1,407	228	692	10.75	3,047	253	1,523	4,454	2,215	244
Lander	1.26	244	0	244	172	131	5.18	1,109	191	560	1,353	691	188
Lincoln	0.90	258	15	273	271	130	3.21	1,082	301	541	1,355	671	294
Lyon	2.23	306	12	318	127	160	24.35	3,853	141	1,927	4,171	2,087	140
Mineral	1.41	209	14	223	141	112	5.29	930	157	470	1,153	582	154
Nye	7.32	1,635	73	1,708	208	818	15.73	4,077	231	1,927	5,785	2,745	224
Pershing	0.60	123	20	143	212	83	4.54	1,199	236	605	1,342	688	233
Storey	1.17	116	0	116	88	58	2.03	224	99	112	340	170	95
Washoe	28.24	5,016	45	5,060	160	2,537	262.81	52,322	178	26,166	57,382	28,703	176
White Pine	0.78	210	26	236	272	105	8.99	3,047	302	1,523	3,283	1,628	300
Total	91.51	17,783	321	18,105	177	9,022	1,487.64	342,605	206	171,015	360,710	180,037	204

Industrial Water Use - NDWP

COUNTY	SELF-SUPPLIED INDUSTRIAL			CONSUMPTIVE USE, AFY	PUBLIC SUPPLY INDUSTRIAL		SELF-SUPPLIED + PUBLIC SUPPLY INDUSTRIAL	
	WITHDRAWALS, AFY				DELIVERIES, AFY	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL					
1995								
Carson City	224	0	224	22	829	67	1,053	89
Churchill	269	0	269	90	34	11	303	101
Clark	1,680	6,172	7,852	2,319	1,221	358	9,073	2,677
Douglas	302	0	302	90	0	0	302	90
Elko	0	0	0	0	0	0	0	0
Esmeralda	0	0	0	0	0	0	0	0
Eureka	0	0	0	0	0	0	0	0
Humboldt	560	0	560	168	0	0	560	168
Lander	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
Lyon	4,873	0	4,873	1,445	56	11	4,929	1,456
Mineral	0	0	0	0	0	0	0	0
Nye	0	0	0	0	0	0	0	0
Pershing	0	0	0	0	0	0	0	0
Storey	0	0	0	0	0	0	0	0
Washoe	414	2,274	2,688	818	314	90	3,002	908
White Pine	0	0	0	0	0	0	0	0
Total	8,322	8,446	16,768	4,952	2,454	537	19,222	5,489

Thermoelectric Power Water Use - NDWP

COUNTY	SELF-SUPPLIED THERMOELECTRIC					PUBLIC SUPPLY THERMOELECTRIC			SELF-SUPPLIED + PUBLIC SUPPLY THERMOELECTRIC		
	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH
	GROUNDWATER	SURFACE WATER	TOTAL								
1995											
Carson City	0	0	0	0	0.00	0	0	0	0	0	0.00
Churchill	22,963	0	22,963	8,233	614.79	0	0	0	22,963	8,233	614.79
Clark	4,145	19,569	23,713	23,713	12,987.36	1,624	1,624	890	25,337	25,337	13,876.90
Douglas	0	0	0	0	0.00	0	0	0	0	0	0.00
Elko	0	0	0	0	0.00	0	0	0	0	0	0.00
Esmeralda	0	0	0	0	0.00	0	0	0	0	0	0.00
Eureka	4,637	0	4,637	997	115.05	0	0	0	4,637	997	115.05
Humboldt	1,131	2,095	3,226	3,226	1,868.06	0	0	0	3,226	3,226	1,868.06
Lander	0	0	0	0	0.00	0	0	0	0	0	0.00
Lincoln	0	0	0	0	0.00	0	0	0	0	0	0.00
Lyon	1,400	0	1,400	1,400	1,314.49	0	0	0	1,400	1,400	1,314.49
Mineral	0	0	0	0	0.00	0	0	0	0	0	0.00
Nye	0	0	0	0	0.00	0	0	0	0	0	0.00
Pershing	0	0	0	0	0.00	0	0	0	0	0	0.00
Storey	314	1,512	1,826	1,826	1,016.70	0	0	0	1,826	1,826	1,016.70
Washoe	6,060	0	6,060	34	121.72	0	0	0	6,060	34	121.72
White Pine	0	0	0	0	0.00	0	0	0	0	0	0.00
Total	40,650	23,176	63,825	39,429	18,038.17	1,624	1,624	890	65,449	41,053	18,927.71

Mining Water Use - NDWP

COUNTY	CONSUMPTIVE USE WITHDRAWALS, AFY				NONCONSUMPTIVE USE WITHDRAWALS, AFY	TOTAL GW WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY
	GROUNDWATER WITHDRAWALS, AFY	SURFACE WATER WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY	CONSUMPTIVE USE, AFY			
Carson City	0	0	0	0	0	0	0
Churchill	179	0	179	179	0	179	179
Clark	1,143	1,243	2,386	2,375	0	1,143	2,386
Douglas	0	0	0	0	0	0	0
Elko	5,175	179	5,354	5,354	0	5,175	5,354
Esmeralda	12,613	0	12,613	12,613	0	12,613	12,613
Eureka	19,210	11	19,222	19,222	95,021	114,231	114,243
Humboldt	15,077	0	15,077	15,077	61,563	76,640	76,640
Lander	7,460	90	7,550	7,550	28,048	35,508	35,598
Lincoln	0	0	0	0	0	0	0
Lyon	314	2,251	2,565	2,565	0	314	2,565
Mineral	2,520	0	2,520	2,520	0	2,520	2,520
Nye	7,057	0	7,057	7,057	638	7,695	7,695
Pershing	2,106	0	2,106	2,106	0	2,106	2,106
Storey	224	34	258	258	0	224	258
Washoe	717	0	717	717	0	717	717
White Pine	11,459	101	11,560	11,560	0	11,459	11,560
TOTAL	85,254	3,909	89,164	89,153	185,270	270,524	274,434

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Livestock Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL	
1995				
Carson City	0	11	11	0
Churchill	168	504	672	258
Clark	112	168	280	202
Douglas	22	236	258	134
Elko	302	1,401	1,703	672
Esmeralda	67	56	123	67
Eureka	22	135	157	67
Humboldt	101	526	627	224
Lander	67	269	336	123
Lincoln	22	101	123	34
Lyon	34	414	448	146
Mineral	34	0	34	34
Nye	45	694	739	67
Pershing	22	236	258	78
Storey	0	0	0	0
Washoe	67	224	291	123
White Pine	34	235	269	90
TOTAL	1,119	5,210	6,329	2,319

Irrigation Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	CONVEYANCE LOSS, AFY	IRRIGATED LAND, 1000 ACRES			RECLAIMED WASTEWATER, AFY
	GROUNDWATER	SURFACE WATER	TOTAL			SPRINKLER	SURFACE	TOTAL	
1995									
Carson City	0	10,710	10,710	4,932	3,165	0.24	2.19	2.43	4,817
Churchill	25,636	230,917	256,553	117,890	74,602	9.43	46.66	56.09	11
Clark	31,408	8,884	40,292	28,771	2,218	5.68	2.07	7.75	8,558
Douglas	20,891	168,653	189,544	85,565	56,246	0.32	38.32	38.64	5,903
Elko	102,906	805,739	908,645	464,897	196,391	24.43	189.47	213.90	5,130
Esmeralda	42,098	7,589	49,687	31,204	5,121	5.09	6.20	11.29	0
Eureka	101,257	23,602	124,859	72,903	17,743	26.15	6.28	32.78	0
Humboldt	462,769	137,076	599,845	313,687	117,620	65.10	77.46	142.56	0
Lander	106,739	54,643	161,382	85,694	30,600	9.75	26.44	36.19	0
Lincoln	42,024	23,513	65,537	42,980	4,320	2.49	13.14	15.63	0
Lyon	45,489	261,437	306,926	141,005	91,713	3.58	57.39	60.98	0
Mineral	3,920	11,762	15,682	7,253	4,565	0.39	2.51	2.90	0
Nye	48,013	12,220	60,233	39,383	6,064	5.96	8.78	14.74	0
Pershing	36,909	80,053	116,962	62,405	21,823	7.83	19.54	27.37	0
Storey	0	1,008	1,008	560	336	0.00	0.30	0.30	0
Washoe	26,377	95,156	121,533	60,241	30,909	2.59	24.46	27.05	1,456
White Pine	41,748	42,439	84,187	52,709	8,979	6.24	18.60	24.84	448
TOTAL	1,138,184	1,975,401	3,113,585	1,612,079	672,415	175.28	539.81	715.44	26,323

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Hydroelectric Power Water Use - NDWP

<i>COUNTY</i>	<i>INSTREAM WATER USE, AFY</i>	<i>POWER GENERATED, MILLION KWH</i>
1995		
Carson City	0	0.00
Churchill	53,195	2.61
Clark	5,635,099	6,270.91
Douglas	0	0.00
Elko	0	0.00
Esmeralda	0	0.00
Eureka	0	0.00
Humboldt	0	0.00
Lander	0	0.00
Lincoln	0	0.00
Lyon	0	0.00
Mineral	0	0.00
Nye	0	0.00
Pershing	0	0.00
Storey	0	0.00
Washoe	1,117,116	42.55
White Pine	0	0.00
TOTAL	6,805,410	6316.07

Water Use by Category (1) - NDWP

COUNTY	WITHDRAWALS, AFY								
	PUBLIC SUPPLY	SELF-SUPPLIED COMMERCIAL	SELF-SUPPLIED DOMESTIC	SELF-SUPPLIED INDUSTRIAL	SELF-SUPPLIED THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION	TOTAL
Carson City	9,342	11	633	224	0	0	11	10,710	20,931
Churchill	3,573	784	1,306	269	22,963	179	672	256,553	286,299
Clark	379,921	9,308	4,600	7,852	23,713	2,386	280	40,292	468,352
Douglas	11,078	1,826	947	302	0	0	258	189,544	203,955
Elko	14,920	5,265	707	0	0	5,354	1,703	908,645	936,594
Esmeralda	302	0	84	0	0	12,613	123	49,687	62,809
Eureka	426	0	100	0	4,637	114,243	157	124,859	244,422
Humboldt	4,201	78	1,407	560	3,226	76,640	627	599,845	686,584
Lander	1,423	0	244	0	0	35,598	336	161,382	198,983
Lincoln	1,550	34	273	0	0	0	123	65,537	67,517
Lyon	5,746	2,800	318	4,873	1,400	2,565	448	306,926	325,076
Mineral	1,255	0	223	0	0	2,520	34	15,682	19,714
Nye	6,127	112	1,708	0	0	7,695	739	60,233	76,614
Pershing	1,736	11	143	0	0	2,106	258	116,962	121,216
Storey	325	0	116	0	1,826	258	0	1,008	3,533
Washoe	79,385	3,248	5,060	2,688	6,060	717	291	121,533	218,982
White Pine	3,551	0	236	0	0	11,560	269	84,187	99,803
TOTAL	524,861	23,477	18,105	16,768	63,825	274,434	6,329	3,113,585	4,041,384

Wednesday, April 07, 1999

Water Use by Category (2) - NDWP

COUNTY	WITHDRAWALS, AFY							
	PUBLIC SUPPLY - PUBLIC USE AND LOSSES	COMMERCIAL	DOMESTIC	INDUSTRIAL	THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION

1995

Carson City	840	1,221	7,096	1,053	0	0	11	11	20,931
Churchill	1,053	1,120	3,457	303	22,963	179	672	672	286,300
Clark	32,283	111,992	246,709	9,073	25,337	2,386	280	280	468,352
Douglas	347	2,991	10,513	302	0	0	258	258	203,955
Elko	1,355	7,942	11,595	0	0	5,354	1,703	1,703	936,594
Esmeralda	45	45	297	0	0	12,613	123	123	62,810
Eureka	34	67	425	0	4,637	114,243	157	157	244,422
Humboldt	381	851	4,454	560	3,226	76,640	627	627	686,584
Lander	168	146	1,353	0	0	35,598	336	336	198,983
Lincoln	138	364	1,355	0	0	0	123	123	67,517
Lyon	672	3,965	4,171	4,929	1,400	2,565	448	448	325,076
Mineral	45	280	1,153	0	0	2,520	34	34	19,714
Nye	1,378	784	5,785	0	0	7,695	739	739	76,614
Pershing	134	414	1,342	0	0	2,106	258	258	121,216
Storey	34	67	340	0	1,826	258	0	0	3,533
Washoe	9,308	20,689	57,382	3,002	6,060	717	291	291	218,982
White Pine	258	246	3,283	0	0	11,560	269	269	99,803
TOTAL	48,473	153,184	360,710	19,222	65,449	274,434	6,329	3,113,585	4,041,386

Wednesday, April 07, 1999

Water Use by Source - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER	TOTAL	

1995

Carson City	7,040	13,891	20,931	8,798
Churchill	54,866	231,433	286,299	128,624
Clark	95,144	373,208	468,352	203,035
Douglas	34,349	169,606	203,955	91,337
Elko	124,214	812,380	936,594	477,269
Esmeralda	55,164	7,645	62,809	44,048
Eureka	220,673	23,748	244,422	93,406
Humboldt	546,866	139,718	686,584	334,754
Lander	143,981	55,002	198,983	94,092
Lincoln	43,888	23,629	67,517	43,779
Lyon	60,962	264,114	325,076	148,883
Mineral	7,938	11,776	19,714	10,445
Nye	63,627	12,987	76,614	49,610
Pershing	40,907	80,309	121,216	65,333
Storey	688	2,845	3,533	2,825
Washoe	59,497	159,486	218,982	94,310
White Pine	56,655	43,148	99,803	66,043
TOTAL	1,616,459	2,424,925	4,041,384	1,956,591

Wednesday, April 07, 1999

Public Supply Water Use - NDWP

COUNTY	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			DELIVERIES, AFY					PUBLIC USE AND LOSSES, AFY	DOMESTIC DELIVERIES PER CAPITA USE, GPCD	TOTAL WITHDRAWALS PER CAPITA USE, GPCD	CONSUMPTIVE USE Use, AFY
		GROUND WATER	SURFACE WATER	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	THERMO ELECTRIC	TOTAL				
Carson City	36.93	6,609	3,092	9,700	6,598	1,232	840	0	8,670	1,031	160	234	3,707
Churchill	9.35	2,621	0	2,621	1,579	773	22	0	2,375	246	151	250	941
Clark	754.37	45,153	254,462	299,615	176,915	72,607	1,983	896	252,401	47,214	209	355	103,556
Douglas	19.91	5,085	3,125	8,211	5,500	2,039	0	0	7,539	672	247	368	3,147
Elko	28.91	11,269	0	11,269	8,636	2,520	0	0	11,157	112	267	348	4,492
Esmeralda	0.83	190	0	190	134	45	0	0	179	11	145	205	78
Eureka	0.98	381	0	381	280	67	0	0	347	34	255	347	157
Humboldt	9.27	3,192	0	3,192	2,386	504	0	0	2,890	302	230	307	1,288
Lander	4.65	1,053	0	1,053	717	246	0	0	963	90	138	202	403
Lincoln	3.23	1,669	0	1,669	1,176	347	0	0	1,523	146	326	462	661
Lyon	16.89	4,201	0	4,201	2,935	829	0	0	3,764	437	155	222	1,590
Mineral	5.90	493	1,770	2,263	840	1,176	0	0	2,016	246	127	342	672
Nye	11.70	3,506	0	3,506	1,915	1,165	0	0	3,080	426	146	267	1,187
Pershing	3.72	1,557	0	1,557	1,064	347	0	0	1,411	146	255	373	605
Storey	1.62	34	224	258	179	45	0	0	224	34	99	142	101
Washoe	236.11	26,682	51,717	78,399	53,330	16,074	101	0	69,505	8,894	202	296	29,381
White Pine	8.38	2,890	347	3,237	2,722	202	0	0	2,924	314	290	345	1,355
TOTAL	1,152.71	116,585	314,737	431,322	266,906	100,218	2,946	896	370,968	60,355	207	334	153,321

Source: U.S. Geological Survey; modifications by Nev. Division of Water Planning

Commercial Water Use - NDWP

COUNTY	SELF-SUPPLIED WITHDRAWALS, AFY			SELF-SUPPLIED CONSUMPTIVE USE, AFY	PUBLIC SUPPLY COMMERCIAL DELIVERIES, AFY	PUBLIC SUPPLY COMMERCIAL CONSUMPTIVE USE, AFY	SELF-SUPPLIED + PUBLIC SUPPLY COMMERCIAL	
	BY SOURCE		TOTAL				WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER						
1990								
Carson City	11	0	11	0	1,232	246	1,243	246
Churchill	45	0	45	11	773	157	818	168
Clark	4,738	7,057	11,795	2,240	72,607	13,811	84,402	16,051
Douglas	101	11	112	22	2,039	403	2,151	425
Elko	392	5,041	5,433	403	2,520	179	7,953	582
Esmeralda	11	0	11	0	45	11	56	11
Eureka	11	0	11	0	67	11	78	11
Humboldt	34	0	34	11	504	101	538	112
Lander	0	0	0	0	246	45	246	45
Lincoln	34	0	34	11	347	67	381	78
Lyon	56	336	392	56	829	123	1,221	179
Mineral	22	0	22	0	1,176	246	1,198	246
Nye	739	0	739	146	1,165	235	1,904	381
Pershing	11	0	11	0	347	67	358	67
Storey	11	0	11	0	45	11	56	11
Washoe	1,568	2,128	3,696	616	16,074	2,688	19,770	3,304
White Pine	157	2,912	3,069	67	202	0	3,271	67
TOTAL	7,941	17,485	25,426	3,583	100,218	18,401	125,644	21,984

Wednesday, April 07, 1999

Domestic Water Use - NDWP

COUNTY	SELF-SUPPLIED DOMESTIC						PUBLIC SUPPLY DOMESTIC				SELF-SUPPLIED + PUBLIC SUPPLY DOMESTIC		
	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	POPULATION SERVED, IN THOUSANDS	DELIVERIES, AFY	PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	PER CAPITA TOTAL, GPCD
		GROUND WATER	SURFACE WATER	TOTAL									
Carson City	4.02	646	0	646	143	323	36.93	6,598	160	3,293	7,244	3,616	158
Churchill	8.75	1,316	13	1,329	136	664	9.35	1,579	151	784	2,908	1,448	143
Clark	15.91	3,341	18	3,359	188	1,680	754.37	176,915	209	88,457	180,274	90,137	209
Douglas	8.16	1,988	42	2,030	222	1,016	19.91	5,500	247	2,744	7,530	3,760	239
Elko	4.86	1,281	22	1,305	240	653	28.91	8,636	267	4,313	9,941	4,966	263
Esmeralda	0.52	77	0	77	131	39	0.83	134	145	67	211	106	140
Eureka	0.57	147	0	147	230	85	0.98	280	255	146	427	231	246
Humboldt	3.75	850	19	869	207	434	9.27	2,386	230	1,187	3,255	1,621	223
Lander	1.69	234	0	234	124	117	4.65	717	138	358	951	475	134
Lincoln	0.58	165	27	192	293	111	3.23	1,176	326	594	1,368	705	321
Lyon	3.70	564	13	578	140	282	16.89	2,935	155	1,467	3,513	1,749	152
Mineral	0.57	63	10	73	115	42	5.90	840	127	426	913	468	126
Nye	6.49	906	50	955	131	478	11.70	1,915	146	952	2,870	1,430	141
Pershing	0.83	190	23	213	230	118	3.72	1,064	255	538	1,277	656	251
Storey	0.94	94	0	94	89	51	1.62	179	99	90	273	141	95
Washoe	20.99	4,217	52	4,267	181	2,142	236.13	53,330	202	26,671	57,597	28,813	200
White Pine	1.03	275	25	300	261	150	8.38	2,722	290	1,355	3,022	1,505	287
Total	83.36	16,354	314	16,668	179	8,385	1,152.77	266,906	207	133,442	283,574	141,827	205

Industrial Water Use - NDWP

COUNTY	SELF-SUPPLIED INDUSTRIAL			CONSUMPTIVE USE, AFY	PUBLIC SUPPLY INDUSTRIAL		SELF-SUPPLIED + PUBLIC SUPPLY INDUSTRIAL	
	WITHDRAWALS, AFY				DELIVERIES, AFY	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL					
1990								
Carson City	224	0	224	45	840	168	1,064	213
Churchill	269	0	269	56	22	0	291	56
Clark	8,311	560	8,872	1,747	1,983	392	10,855	2,139
Douglas	302	0	302	56	0	0	302	56
Elko	0	0	0	0	0	0	0	0
Esmeralda	0	0	0	0	0	0	0	0
Eureka	0	0	0	0	0	0	0	0
Humboldt	0	0	0	0	0	0	0	0
Lander	0	0	0	0	0	0	0	0
Lincoln	0	0	0	0	0	0	0	0
Lyon	90	0	90	22	0	0	90	22
Mineral	0	0	0	0	0	0	0	0
Nye	22	0	22	0	0	0	22	0
Pershing	0	0	0	0	0	0	0	0
Storey	0	0	0	0	0	0	0	0
Washoe	1,344	314	1,658	302	101	22	1,759	324
White Pine	0	0	0	0	0	0	0	0
Total	10,562	874	11,437	2,228	2,946	582	14,383	2,810

Thermoelectric Power Water Use - NDWP

COUNTY	SELF-SUPPLIED THERMOELECTRIC					PUBLIC SUPPLY THERMOELECTRIC			SELF-SUPPLIED + PUBLIC SUPPLY THERMOELECTRIC		
	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH
	GROUNDWATER	SURFACE WATER	TOTAL								
Carson City	0	0	0	0	0.00	0	0	0	0	0	0.00
Churchill	22,952	0	22,952	8,233	614.79	0	0	0	22,952	8,233	614.79
Clark	4,940	21,451	26,390	26,390	13,876.78	896	896	471	27,286	27,286	14,347.78
Douglas	0	0	0	0	0.00	0	0	0	0	0	0.00
Elko	0	0	0	0	0.00	0	0	0	0	0	0.00
Esmeralda	0	0	0	0	0.00	0	0	0	0	0	0.00
Eureka	4,637	0	4,637	997	115.05	0	0	0	4,637	997	115.05
Humboldt	5,153	0	5,153	5,153	2,986.00	0	0	0	5,153	5,153	2,986.00
Lander	0	0	0	0	0.00	0	0	0	0	0	0.00
Lincoln	0	0	0	0	0.00	0	0	0	0	0	0.00
Lyon	5,556	0	5,556	5,209	1,098.23	0	0	0	5,556	5,209	1,098.23
Mineral	0	0	0	0	0.00	0	0	0	0	0	0.00
Nye	0	0	0	0	0.00	0	0	0	0	0	0.00
Pershing	0	0	0	0	0.00	0	0	0	0	0	0.00
Storey	56	3,226	3,282	3,282	715.69	0	0	0	3,282	3,282	715.69
Washoe	6,049	0	6,049	34	121.72	0	0	0	6,049	34	121.72
White Pine	0	0	0	0	0.00	0	0	0	0	0	0.00
Total	49,343	24,677	74,019	49,298	19,528.26	896	896	471	74,915	50,194	19,999.26

1990

Mining Water Use - NDWP

COUNTY	CONSUMPTIVE USE WITHDRAWALS, AFY				NONCONSUMPTIVE USE WITHDRAWALS, AFY	TOTAL GW WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY
	GROUNDWATER WITHDRAWALS, AFY	SURFACE WATER WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY	CONSUMPTIVE USE, AFY			
Carson City	0	0	0	0	0	0	0
Churchill	179	0	179	179	0	179	179
Clark	739	1,243	1,983	1,983	840	1,579	2,823
Douglas	123	0	123	123	0	123	123
Elko	4,503	179	4,682	4,682	448	4,951	5,130
Esmeralda	12,837	0	12,837	12,837	2,823	15,660	15,660
Eureka	16,320	11	16,332	16,332	13,307	29,627	29,639
Humboldt	5,668	0	5,668	5,668	20,174	25,842	25,842
Lander	7,886	90	7,975	7,975	11,134	19,020	19,109
Lincoln	0	0	0	0	0	0	0
Lyon	314	2,251	2,565	2,565	1,703	2,017	4,268
Mineral	1,624	0	1,624	1,624	22	1,646	1,646
Nye	7,505	0	7,505	7,505	56	7,561	7,561
Pershing	1,579	0	1,579	1,579	67	1,646	1,646
Storey	224	34	258	258	34	258	292
Washoe	717	0	717	717	1,557	2,274	2,274
White Pine	3,730	101	3,831	3,831	101	3,831	3,932
TOTAL	63,948	3,909	67,858	67,858	52,266	116,214	120,124

Livestock Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL	
1990				
Carson City	0	11	11	0
Churchill	168	504	672	258
Clark	112	168	280	202
Douglas	22	235	258	134
Elko	302	1,400	1,703	672
Esmeralda	67	56	123	67
Eureka	22	134	157	67
Humboldt	101	526	627	224
Lander	67	269	336	123
Lincoln	22	101	123	34
Lyon	34	414	448	146
Mineral	34	0	34	34
Nye	45	694	739	67
Pershing	22	235	258	78
Storey	0	0	0	0
Washoe	67	224	291	123
White Pine	34	235	269	90
TOTAL	1,119	5,206	6,329	2,319

Irrigation Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	CONVEYANCE LOSS, AFY	IRRIGATED LAND, 1000 ACRES			RECLAIMED WASTEWATER, AFY
	GROUNDWATER	SURFACE WATER	TOTAL			SPRINKLER	SURFACE	TOTAL	
1990									
Carson City	11	2,800	2,812	1,512	1,008	0.10	0.80	0.90	2,711
Churchill	22,403	258,416	280,819	129,040	81,658	9.50	51.90	61.40	11
Clark	16,802	19,826	36,629	26,155	2,016	3.55	3.50	7.05	3,181
Douglas	10,641	192,440	203,081	92,748	60,264	3.20	38.20	41.40	4,682
Elko	61,608	831,088	892,696	456,737	192,944	33.75	176.40	210.15	1,109
Esmeralda	29,684	5,097	34,780	21,843	3,584	1.30	6.60	7.90	0
Eureka	123,215	47,046	170,261	99,412	24,195	8.70	36.00	44.70	0
Humboldt	291,236	276,227	567,463	297,677	111,174	45.00	89.75	134.75	0
Lander	66,088	73,033	139,121	73,873	26,379	9.50	21.70	31.20	0
Lincoln	44,806	20,611	65,416	42,901	4,313	2.50	13.10	15.60	0
Lyon	100,813	219,323	320,136	147,074	95,660	9.40	54.20	63.60	358
Mineral	6,721	24,643	31,364	14,506	9,129	0.90	4.90	5.80	0
Nye	42,005	7,505	49,510	32,372	4,985	3.00	9.20	12.20	78
Pershing	61,944	59,927	121,871	65,024	22,739	9.10	22.00	31.10	0
Storey	0	0	0	0	0	0.00	0.00	0.00	0
Washoe	44,806	110,670	155,475	77,066	39,541	10.20	24.40	34.60	11
White Pine	52,647	36,629	89,275	55,895	560	5.10	21.20	26.30	0
TOTAL	975,430	2,185,281	3,160,709	1,633,835	680,149	154.80	573.85	728.65	12,141

Hydroelectric Power Water Use - NDWP

<i>COUNTY</i>	<i>INSTREAM WATER USE, AFY</i>	<i>POWER GENERATED, MILLION KWH</i>
1990		
Carson City	0	0.00
Churchill	135,940	6.67
Clark	3,434,528	1,597.26
Douglas	0	0.00
Elko	0	0.00
Esmeralda	0	0.00
Eureka	0	0.00
Humboldt	0	0.00
Lander	0	0.00
Lincoln	0	0.00
Lyon	0	0.00
Mineral	0	0.00
Nye	0	0.00
Pershing	0	0.00
Storey	0	0.00
Washoe	340,825	12.98
White Pine	0	0.00
TOTAL	3,911,293	1616.91

Water Use by Category (1) - NDWP

COUNTY	WITHDRAWALS, AFY								
	PUBLIC SUPPLY	SELF-SUPPLIED COMMERCIAL	SELF-SUPPLIED DOMESTIC	SELF-SUPPLIED INDUSTRIAL	SELF-SUPPLIED THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION	TOTAL
Carson City	9,700	11	646	224	0	0	11	2,812	13,404
Churchill	2,621	45	1,329	269	22,952	179	672	280,819	308,886
Clark	299,615	11,795	3,359	8,872	26,390	2,823	280	36,629	389,763
Douglas	8,211	112	2,030	302	0	123	258	203,081	214,117
Elko	11,269	5,433	1,305	0	0	5,130	1,703	892,696	917,536
Esmeralda	190	11	77	0	0	15,660	123	34,780	50,841
Eureka	381	11	147	0	4,637	29,639	157	170,261	205,233
Humboldt	3,192	34	869	0	5,153	25,842	627	567,463	603,180
Lander	1,053	0	234	0	0	19,109	336	139,121	159,853
Lincoln	1,669	34	192	0	0	0	123	65,416	67,434
Lyon	4,201	392	578	90	5,556	4,268	448	320,136	335,669
Mineral	2,263	22	73	0	0	1,646	34	31,364	35,402
Nye	3,506	739	955	22	0	7,561	739	49,510	63,032
Pershing	1,557	11	213	0	0	1,646	258	121,871	125,556
Storey	258	11	94	0	3,282	292	0	0	3,937
Washoe	78,399	3,696	4,267	1,658	6,049	2,274	291	155,475	252,109
White Pine	3,237	3,069	300	0	0	3,932	269	89,275	100,082
TOTAL	431,322	25,426	16,668	11,437	74,019	120,124	6,329	3,160,709	3,846,034

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Water Use by Category (2) - NDWP

COUNTY	WITHDRAWALS, AFY								TOTAL
	PUBLIC SUPPLY - PUBLIC USE AND LOSSES	COMMERCIAL	DOMESTIC	INDUSTRIAL	THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION	
Carson City	1,031	1,243	7,244	1,064	0	0	11	11	13,405
Churchill	246	818	2,908	291	22,952	179	672	672	308,885
Clark	47,214	84,402	180,274	10,855	27,286	2,823	280	280	389,763
Douglas	672	2,151	7,530	302	0	123	258	258	214,117
Elko	112	7,953	9,941	0	0	5,130	1,703	1,703	917,535
Esmeralda	11	56	211	0	0	15,660	123	123	50,841
Eureka	34	78	427	0	4,637	29,639	157	157	205,233
Humboldt	302	538	3,255	0	5,153	25,842	627	627	603,180
Lander	90	246	951	0	0	19,109	336	336	159,853
Lincoln	146	381	1,368	0	0	0	123	123	67,434
Lyon	437	1,221	3,513	90	5,556	4,268	448	448	335,669
Mineral	246	1,198	913	0	0	1,646	34	34	35,401
Nye	426	1,904	2,870	22	0	7,561	739	739	63,032
Pershing	146	358	1,277	0	0	1,646	258	258	125,556
Storey	34	56	273	0	3,282	292	0	0	3,937
Washoe	8,894	19,770	57,597	1,759	6,049	2,274	291	291	252,109
White Pine	314	3,271	3,022	0	0	3,932	269	269	100,083
TOTAL	60,355	125,644	283,574	14,383	74,915	120,124	6,329	3,160,709	3,846,033

Wednesday, April 07, 1999

Water Use by Source - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER	TOTAL	

1990

Carson City	7,501	5,903	13,404	5,587
Churchill	49,953	258,933	308,886	139,382
Clark	84,976	304,785	389,763	163,953
Douglas	18,262	195,853	214,117	97,246
Elko	79,803	837,730	917,536	467,639
Esmeralda	45,689	5,153	50,841	34,864
Eureka	158,040	47,191	205,233	117,050
Humboldt	326,408	276,772	603,180	310,455
Lander	86,462	73,392	159,853	82,491
Lincoln	46,696	20,739	67,434	43,718
Lyon	113,331	222,337	335,669	156,944
Mineral	8,979	26,423	35,402	16,878
Nye	54,784	8,249	63,032	41,755
Pershing	65,370	60,185	125,556	67,404
Storey	453	3,484	3,937	3,692
Washoe	87,007	165,105	252,109	110,381
White Pine	59,834	40,249	100,082	61,388
TOTAL	1,293,548	2,552,483	3,846,034	1,920,827

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Public Supply Water Use - NDWP

COUNTY	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			DELIVERIES, AFY					PUBLIC USE AND LOSSES, AFY	DOMESTIC DELIVERIES PER CAPITA USE, GPCD	TOTAL WITHDRAWALS PER CAPITA USE, GPCD	CONSUMPTIVE USE Use, AFY
		GROUND WATER	SURFACE WATER	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	THERMO ELECTRIC	TOTAL				
1985													
Carson City	33.93	6,698	2,677	9,376	6,799	1,075	672	0	8,547	829	179	247	3,864
Churchill	8.03	2,520	11	2,532	1,960	325	34	0	2,319	213	218	282	997
Clark	542.47	52,344	155,711	208,055	132,031	42,397	1,837	2,744	179,010	29,045	217	342	78,029
Douglas	14.61	3,954	2,151	6,105	5,018	515	56	0	5,589	515	307	373	2,744
Elko	19.30	9,779	78	9,857	6,631	1,512	0	0	8,143	1,714	307	456	3,662
Esmeralda	0.94	157	0	157	146	11	0	0	157	0	139	150	78
Eureka	0.54	157	0	157	134	11	0	0	146	11	222	261	78
Humboldt	6.02	1,591	0	1,591	1,355	78	78	0	1,512	78	201	236	772
Lander	3.31	952	34	986	683	123	90	0	896	90	184	266	369
Lincoln	3.31	975	0	975	829	45	0	0	874	101	223	263	425
Lyon	8.61	3,607	0	3,607	2,912	269	101	0	3,282	325	302	374	1,636
Mineral	5.66	997	426	1,423	1,031	269	0	0	1,299	123	163	225	571
Nye	7.64	2,363	0	2,363	1,647	224	347	0	2,218	146	192	276	1,031
Pershing	2.77	952	56	1,008	594	224	0	0	818	190	192	325	359
Storey	1.40	45	224	269	157	56	0	0	213	56	100	171	101
Washoe	206.17	15,872	54,898	70,770	47,617	12,960	3,842	0	64,419	6,351	206	306	27,410
White Pine	6.45	2,554	358	2,912	2,352	246	0	0	2,599	314	326	403	1,232
TOTAL	871.14	105,517	216,624	322,143	211,896	60,340	7,057	2,744	282,041	40,101	217	330	123,358

Source: U.S. Geological Survey; modifications by Nev. Division of Water Planning

Commercial Water Use - NDWP

COUNTY	SELF-SUPPLIED WITHDRAWALS, AFY			SELF-SUPPLIED CONSUMPTIVE USE, AFY	PUBLIC SUPPLY COMMERCIAL DELIVERIES, AFY	PUBLIC SUPPLY COMMERCIAL CONSUMPTIVE USE, AFY	SELF-SUPPLIED + PUBLIC SUPPLY COMMERCIAL	
	BY SOURCE		TOTAL				WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER						
1985								
Carson City	22	0	22	0	1,075	224	1,097	224
Churchill	45	0	45	11	325	67	370	78
Clark	6,362	392	6,754	1,355	42,397	8,479	49,151	9,834
Douglas	123	11	134	34	515	112	649	146
Elko	437	0	437	90	1,512	302	1,949	392
Esmeralda	11	0	11	0	11	0	22	0
Eureka	11	0	11	0	11	0	22	0
Humboldt	45	0	45	11	78	11	123	22
Lander	0	0	0	0	123	22	123	22
Lincoln	34	0	34	11	45	11	79	22
Lyon	56	0	56	11	269	56	325	67
Mineral	22	0	22	0	269	56	291	56
Nye	134	0	134	34	224	45	358	79
Pershing	11	0	11	0	224	45	235	45
Storey	11	0	11	0	56	11	67	11
Washoe	526	0	526	101	12,960	2,610	13,486	2,711
White Pine	34	0	34	11	246	45	280	56
TOTAL	7,884	403	8,287	1,669	60,340	12,096	68,627	13,765

Wednesday, April 07, 1999

Domestic Water Use - NDWP

COUNTY	SELF-SUPPLIED DOMESTIC						PUBLIC SUPPLY DOMESTIC				SELF-SUPPLIED + PUBLIC SUPPLY DOMESTIC		
	POPULATION SERVED, IN THOUSANDS	WITHDRAWALS, AFY			PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	POPULATION SERVED, IN THOUSANDS	DELIVERIES, AFY	PER CAPITA USE, GPCD	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	PER CAPITA TOTAL, GPCD
		GROUND WATER	SURFACE WATER	TOTAL									
Carson City	1.72	311	0	311	161	155	33.93	6,799	179	3,506	7,110	3,661	178
Churchill	7.09	1,545	15	1,560	196	735	8.03	1,960	218	919	3,520	1,654	208
Clark	19.81	4,201	139	4,340	196	2,186	542.47	132,031	217	66,492	136,371	68,678	217
Douglas	8.39	2,504	88	2,592	276	1,349	14.61	5,018	307	2,621	7,610	3,970	295
Elko	3.05	811	131	944	276	482	19.30	6,631	307	3,360	7,575	3,842	303
Esmeralda	0.60	84	0	84	124	37	0.94	146	139	78	230	115	133
Eureka	0.76	157	14	171	200	86	0.54	134	222	78	305	164	209
Humboldt	5.24	1,007	55	1,062	181	599	6.02	1,355	201	750	2,417	1,349	192
Lander	1.22	159	67	226	166	120	3.31	683	184	347	909	467	180
Lincoln	0.47	75	30	105	200	61	3.31	829	223	414	934	475	221
Lyon	7.85	2,325	64	2,389	272	1,268	8.61	2,912	302	1,546	5,301	2,814	288
Mineral	0.52	74	12	86	147	50	5.66	1,031	163	515	1,117	565	161
Nye	6.93	1,234	109	1,343	173	705	7.64	1,647	192	874	2,990	1,579	183
Pershing	0.89	130	44	172	172	86	2.77	594	192	314	766	400	187
Storey	0.45	45	0	45	90	23	1.40	157	100	90	202	113	97
Washoe	18.41	3,727	101	3,828	186	1,929	206.17	47,617	206	24,038	51,445	25,967	205
White Pine	1.26	343	74	415	293	221	6.45	2,352	326	1,187	2,767	1,408	320
Total	84.67	18,732	943	19,673	207	10,092	871.14	211,896	217	107,129	231,569	117,221	216

Industrial Water Use - NDWP

COUNTY	SELF-SUPPLIED INDUSTRIAL			CONSUMPTIVE USE, AFY	PUBLIC SUPPLY INDUSTRIAL		SELF-SUPPLIED + PUBLIC SUPPLY INDUSTRIAL	
	WITHDRAWALS, AFY				DELIVERIES, AFY	CONSUMPTIVE USE, AFY	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL					
1985								
Carson City	224	56	280	56	672	134	952	190
Churchill	269	0	269	56	34	11	303	67
Clark	717	8,311	9,028	1,658	1,837	336	10,865	1,994
Douglas	168	0	168	34	56	11	224	45
Elko	0	0	0	0	0	0	0	0
Esmeralda	0	0	0	0	0	0	0	0
Eureka	0	0	0	0	0	0	0	0
Humboldt	90	56	146	22	78	11	224	33
Lander	0	0	0	0	90	0	90	0
Lincoln	0	0	0	0	0	0	0	0
Lyon	22	0	22	11	101	34	123	45
Mineral	0	0	0	0	0	0	0	0
Nye	22	0	22	11	347	112	369	123
Pershing	0	0	0	0	0	0	0	0
Storey	0	0	0	0	0	0	0	0
Washoe	1,120	314	1,434	291	3,842	762	5,276	1,053
White Pine	0	0	0	0	0	0	0	0
Total	2,632	8,737	11,369	2,139	7,057	1,411	18,426	3,550

Thermoelectric Power Water Use - NDWP

COUNTY	SELF-SUPPLIED THERMOELECTRIC					PUBLIC SUPPLY THERMOELECTRIC			SELF-SUPPLIED + PUBLIC SUPPLY THERMOELECTRIC		
	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH	WITHDRAWALS + DELIVERIES, AFY	CONSUMPTIVE USE, AFY	POWER GENERATED, MILLION KWH
	GROUNDWATER	SURFACE WATER	TOTAL								
1985											
Carson City	0	0	0	0	0.00	0	0	0	0	0	0.00
Churchill	45	0	45	0	0.30	0	0	0	45	0	0.30
Clark	8,345	7,975	16,320	16,208	7,923.00	2,744	2,722	1,333	19,064	18,930	9,255.53
Douglas	0	0	0	0	0.00	0	0	0	0	0	0.00
Elko	0	0	0	0	0.00	0	0	0	0	0	0.00
Esmeralda	0	0	0	0	0.00	0	0	0	0	0	0.00
Eureka	0	0	0	0	0.00	0	0	0	0	0	0.00
Humboldt	6,071	0	6,071	4,861	2,880.73	0	0	0	6,071	4,861	2,880.73
Lander	0	0	0	0	0.00	0	0	0	0	0	0.00
Lincoln	0	0	0	0	0.00	0	0	0	0	0	0.00
Lyon	3,248	0	3,248	2,005	210.75	0	0	0	3,248	2,005	210.75
Mineral	0	0	0	0	0.00	0	0	0	0	0	0.00
Nye	0	0	0	0	0.00	0	0	0	0	0	0.00
Pershing	0	0	0	0	0.00	0	0	0	0	0	0.00
Storey	134	459	594	594	59.36	0	0	0	594	594	59.36
Washoe	0	0	0	0	0.00	0	0	0	0	0	0.00
White Pine	0	0	0	0	0.00	0	0	0	0	0	0.00
Total	17,843	8,434	26,278	23,668	11,074.14	2,744	2,722	1,333	29,022	26,390	12,406.67

Mining Water Use - NDWP

COUNTY	CONSUMPTIVE USE WITHDRAWALS, AFY				NONCONSUMPTIVE USE WITHDRAWALS, AFY	TOTAL GW WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY
	GROUNDWATER WITHDRAWALS, AFY	SURFACE WATER WITHDRAWALS, AFY	TOTAL WITHDRAWALS, AFY	CONSUMPTIVE USE, AFY			
Carson City	0	0	0	0	0	0	0
Churchill	202	67	269	213	0	202	269
Clark	1,266	146	1,411	807	0	1,266	1,411
Douglas	381	0	381	190	0	381	381
Elko	2,509	224	2,733	2,520	0	2,509	2,733
Esmeralda	4,794	56	4,850	2,554	0	4,794	4,850
Eureka	3,170	179	3,349	3,136	0	3,170	3,349
Humboldt	1,904	11	1,915	1,859	0	1,904	1,915
Lander	3,842	213	4,055	3,898	0	3,842	4,055
Lincoln	202	0	202	190	0	202	202
Lyon	706	11	717	594	0	706	717
Mineral	594	11	605	504	0	594	605
Nye	3,002	1,938	4,940	4,649	0	3,002	4,940
Pershing	269	11	280	246	0	269	280
Storey	168	0	168	134	0	168	168
Washoe	314	22	336	202	0	314	336
White Pine	930	168	1,098	773	0	930	1,098
TOTAL	24,253	3,057	27,309	22,469	0	24,253	27,309

Livestock Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUNDWATER	SURFACE WATER	TOTAL	
1985				
Carson City	22	45	67	34
Churchill	504	784	1,288	706
Clark	672	4,313	4,985	683
Douglas	269	448	717	213
Elko	1,411	7,270	8,681	2,173
Esmeralda	235	0	235	213
Eureka	269	336	605	336
Humboldt	437	930	1,367	638
Lander	213	347	560	280
Lincoln	190	202	392	235
Lyon	202	1,176	1,378	403
Mineral	90	0	90	90
Nye	246	291	538	314
Pershing	112	426	538	224
Storey	0	0	0	0
Washoe	1,389	2,666	4,055	437
White Pine	336	3,226	3,562	426
TOTAL	6,597	22,460	29,058	7,405

Irrigation Water Use - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY	CONVEYANCE LOSS, AFY	IRRIGATED LAND, 1000 ACRES			RECLAIMED WASTEWATER, AFY
	GROUNDWATER	SURFACE WATER	TOTAL			SPRINKLER	SURFACE	TOTAL	
1985									
Carson City	34	3,226	3,260	1,501	963	0.09	0.65	0.74	1,725
Churchill	12,445	341,049	353,494	163,182	103,355	9.93	54.15	64.08	314
Clark	13,050	35,486	48,536	34,635	2,711	3.57	5.77	9.34	5,074
Douglas	10,541	221,407	231,947	105,909	69,303	3.68	43.94	47.62	3,237
Elko	58,158	977,770	1,035,928	529,692	224,039	33.84	210.12	243.96	1,445
Esmeralda	28,295	7,247	35,542	22,302	3,685	1.33	7.01	8.34	0
Eureka	115,027	67,164	182,191	106,268	25,987	8.69	39.35	48.04	0
Humboldt	279,262	368,257	647,519	338,618	126,968	45.39	108.50	153.89	168
Lander	54,629	104,263	158,892	84,201	30,165	9.52	26.12	35.64	0
Lincoln	42,061	29,504	71,566	46,811	4,738	2.48	14.61	17.09	0
Lyon	74,736	313,337	388,073	176,881	116,091	9.40	67.52	76.92	258
Mineral	4,895	35,228	40,123	18,550	11,750	0.95	6.49	7.44	0
Nye	40,045	39,552	79,597	51,090	7,975	2.99	16.36	19.35	0
Pershing	21,395	174,025	195,420	103,983	36,718	9.16	33.06	42.22	134
Storey	0	0	0	0	0	0.00	0.00	0.00	0
Washoe	38,152	140,533	178,685	88,435	45,410	10.25	29.52	39.77	67
White Pine	46,878	52,344	99,222	61,989	10,585	5.16	24.16	29.32	0
TOTAL	839,603	2,910,392	3,749,995	1,934,047	820,443	156.43	687.33	843.76	12,422

Hydroelectric Power Water Use - NDWP

COUNTY	INSTREAM WATER USE, AFY	POWER GENERATED, MILLION KWH
1985		
Carson City	0	0.00
Churchill	233,583	10.59
Clark	9,257,621	4,308.66
Douglas	0	0.00
Elko	8,928	0.43
Emeralda	1,042	0.05
Eureka	0	0.00
Humboldt	0	0.00
Lander	0	0.00
Lincoln	0	0.00
Lyon	0	0.00
Mineral	0	0.00
Nye	0	0.00
Pershing	0	0.00
Storey	0	0.00
Washoe	473,864	32.82
White Pine	0	0.00
TOTAL	9,975,038	4352.55

Water Use by Category (1) - NDWP

COUNTY	WITHDRAWALS, AFY								
	PUBLIC SUPPLY	SELF-SUPPLIED COMMERCIAL	SELF-SUPPLIED DOMESTIC	SELF-SUPPLIED INDUSTRIAL	SELF-SUPPLIED THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION	TOTAL
Carson City	9,376	22	311	280	0	0	67	3,260	13,316
Churchill	2,532	45	1,560	269	45	269	1,288	353,494	359,502
Clark	208,055	6,754	4,340	9,028	16,320	1,411	4,985	48,536	299,429
Douglas	6,105	134	2,592	168	0	381	717	231,947	242,044
Elko	9,857	437	944	0	0	2,733	8,681	1,035,928	1,058,580
Esmeralda	157	11	84	0	0	4,850	235	35,542	40,879
Eureka	157	11	171	0	0	3,349	605	182,191	186,484
Humboldt	1,591	45	1,062	146	6,071	1,915	1,367	647,519	659,716
Lander	986	0	226	0	0	4,055	560	158,892	164,719
Lincoln	975	34	105	0	0	202	392	71,566	73,274
Lyon	3,607	56	2,389	22	3,248	717	1,378	388,073	399,490
Mineral	1,423	22	86	0	0	605	90	40,123	42,349
Nye	2,363	134	1,343	22	0	4,940	538	79,597	88,937
Pershing	1,008	11	172	0	0	280	538	195,420	197,429
Storey	269	11	45	0	594	168	0	0	1,087
Washoe	70,770	526	3,828	1,434	0	336	4,055	178,685	259,634
White Pine	2,912	34	415	0	0	1,098	3,562	99,222	107,243
TOTAL	322,143	8,287	19,673	11,369	26,278	27,309	29,058	3,749,995	4,194,112

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Water Use by Category (2) - NDWP

COUNTY	WITHDRAWALS, AFY							
	PUBLIC SUPPLY - PUBLIC USE AND LOSSES	COMMERCIAL	DOMESTIC	INDUSTRIAL	THERMO ELECTRIC	MINING	LIVESTOCK	IRRIGATION

1985

Carson City	829	1,097	7,110	952	0	0	67	67	13,315
Churchill	213	370	3,520	303	45	269	1,288	1,288	359,502
Clark	29,045	49,151	136,371	10,865	19,064	1,411	4,985	4,985	299,428
Douglas	515	649	7,610	224	0	381	717	717	242,043
Elko	1,714	1,949	7,575	0	0	2,733	8,681	8,681	1,058,580
Esmeralda	0	22	230	0	0	4,850	235	235	40,879
Eureka	11	22	305	0	0	3,349	605	605	186,483
Humboldt	78	123	2,417	224	6,071	1,915	1,367	1,367	659,714
Lander	90	123	909	90	0	4,055	560	560	164,719
Lincoln	101	79	934	0	0	202	392	392	73,274
Lyon	325	325	5,301	123	3,248	717	1,378	1,378	399,490
Mineral	123	291	1,117	0	0	605	90	90	42,349
Nye	146	358	2,990	369	0	4,940	538	538	88,938
Pershing	190	235	766	0	0	280	538	538	197,429
Storey	56	67	202	0	594	168	0	0	1,087
Washoe	6,351	13,486	51,445	5,276	0	336	4,055	4,055	259,634
White Pine	314	280	2,767	0	0	1,098	3,562	3,562	107,243
TOTAL	40,101	68,627	231,569	18,426	29,022	27,309	29,058	3,749,995	4,194,107

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Water Use by Source - NDWP

COUNTY	WITHDRAWALS, AFY			CONSUMPTIVE USE, AFY
	GROUND WATER	SURFACE WATER	TOTAL	

1985

Carson City	7,311	6,004	13,316	5,610
Churchill	17,575	341,926	359,502	165,900
Clark	86,957	212,473	299,429	135,561
Douglas	17,940	224,105	242,044	110,473
Elko	73,105	985,473	1,058,580	538,619
Esmeralda	33,576	7,303	40,879	25,184
Eureka	118,791	67,693	186,484	109,904
Humboldt	290,407	369,309	659,716	347,380
Lander	59,795	104,924	164,719	88,868
Lincoln	43,537	29,736	73,274	47,733
Lyon	84,902	314,588	399,490	182,809
Mineral	6,672	35,677	42,349	19,765
Nye	47,046	41,890	88,937	57,834
Pershing	22,869	174,562	197,429	104,898
Storey	403	683	1,087	852
Washoe	61,100	198,534	259,634	118,805
White Pine	51,075	56,170	107,243	64,652
TOTAL	1,023,061	3,171,050	4,194,112	2,124,847

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Nevada State Water Plan
**Appendix 2 – Population Estimates,
Forecasts and Comparative Analysis**

TABLES:

Table 1 — Nevada Population Forecast Summary

Table 2 — Nevada Population Share Analysis Summary

Table 3 — Nevada Population Growth Estimates and Forecasts

Table 4 — Nevada Population Share Estimates and Forecasts

**Table 5 — State and County Population Estimates and Forecasts,
Nevada State Demographer and Nevada Division of Water Planning,
1950–2020**

GRAPHS:

Figure 1 — Resident Population Estimates, 1950–1997

Figure 2 — Population Growth Rates, 1950–1997

Figure 3 — Population Estimates and Forecasts, 1950–2018

Figure 4 — Population Forecast Comparisons, 1997–2018

Figure 5 — Population Forecast Variances (Persons), 1998–2018

Figure 6 — Population Forecast Variances (Percent), 1998–2018

Nevada Division of Water Planning

Foreword to Nevada Population Forecasts

Appendix 2 presents a series of population estimates and forecasts used in the *Nevada State Water Plan*. The Nevada Division of Water Planning, like other State agencies, is bound by Executive Order (August 15, 1989) to use the population estimates and forecasts developed by the Nevada State Demographer. However, in some cases, significant discontinuities exist between the State's official state and county population forecasts and those forecasts developed by some local governments and other agencies. Because these discontinuities have important ramifications on projected water use trends, the Division, in agreement with the State's contracting agency for population forecasts, the Nevada Department of Taxation, has utilized the latest forecasts provided by both the Clark County Department of Comprehensive Planning and the Washoe County Department of Community Development. The Division also developed the population forecasts for the remaining counties.

Population forecasts for the total state were not forecast independently, but instead, represent an aggregation of individual county population forecasts. While both sets of population forecasts are presented in this appendix for comparative analysis purposes and to provide a range of population projections, it was the forecasts developed by or adopted by the Division that constituted the forecasts used in the water plan's forecasts of water withdrawals.

Year	Nevada	Carson City	Humboldt County	Clark County	Douglas County	Elko County	Esmeralda County	Erath County	Humboldt County
2000	1,985,257	54,464	25,029	1,533,368	42,334	51,665	1,440	1,771	19,887
2001	2,002,275	54,977	25,727	1,517,132	43,013	52,651	1,486	1,815	19,342
2002	2,035,490	55,034	27,453	1,475,094	44,685	54,213	1,492	1,851	19,781
2003	2,064,252	54,265	28,164	1,452,510	46,090	55,453	1,498	1,886	20,209
2004	2,074,255	55,513	28,889	1,437,021	47,771	56,671	1,503	1,921	20,677
2005	2,081,354	56,703	29,448	1,419,341	49,185	57,859	1,509	1,951	21,174
2006	2,087,472	57,856	30,039	1,399,049	49,225	59,065	1,513	1,981	21,627
2007	2,075,243	57,570	30,929	1,373,337	50,295	60,024	1,518	2,014	21,805
2008	2,070,847	57,016	31,620	1,350,161	51,075	61,006	1,522	2,042	22,174
2009	2,035,718	55,065	32,286	1,311,119	52,084	62,071	1,526	2,067	22,594
2010	2,019,320	54,247	32,911	1,271,131	52,277	63,074	1,531	2,091	22,858
2011	2,021,357	54,946	33,519	1,243,368	54,242	64,066	1,533	2,114	23,174
2012	2,030,633	55,116	34,131	1,249,808	55,191	65,023	1,536	2,137	23,473
2013	2,035,141	55,070	34,743	1,253,036	56,113	65,997	1,539	2,157	23,722
2014	2,028,183	55,195	35,320	1,245,013	57,027	66,868	1,541	2,174	24,012
2015	2,068,919	55,070	35,873	1,245,219	57,800	67,809	1,544	2,185	24,251
2016	2,007,639	55,756	36,512	1,201,121	58,251	68,679	1,545	2,207	24,468
2017	2,044,031	57,096	37,917	1,203,041	59,574	69,681	1,547	2,219	24,561
2018	2,080,128	57,095	37,422	1,225,269	60,366	69,224	1,548	2,222	24,837
2019	2,014,119	57,046	37,862	1,153,344	61,127	69,307	1,549	2,225	24,987
2020	2,045,846	57,567	38,291	1,199,048	61,574	70,113	1,550	2,233	25,114

Source: Population counts: Nevada State Department of Population, Family, and Nevada Division of Water Planning (NDWP).
Population from the Clark County census tracts was apportioned to the Clark County Department of Community Development.
Population from the Elko census tracts was apportioned to the Elko County Department of Community Development.
Population from the Humboldt census tracts was apportioned to the Humboldt County Department of Community Development.

Nevada Population Forecast Summary

Population Estimates—1950-1997, NDWT Modified Forecasts—1998-2020 [see below]

Year	Lincoln County	Washoe County	Clark County	Humboldt County	Esmeralda County	Yerington County	Spring County	Washoe County	White Pine County
1950	1,860	3,655	3,701	3,588	3,101	3,127	697	53,484	9,519
1951	1,900	3,700	3,800	3,700	3,100	3,200	690	53,600	9,700
1952	1,900	3,800	3,900	3,700	3,100	3,300	690	54,000	9,700
1953	1,900	3,900	3,700	3,700	3,100	3,400	690	54,100	9,700
1954	1,900	3,900	4,100	3,800	3,100	3,500	690	54,500	10,000
1955	1,900	3,900	4,200	3,900	3,100	3,600	700	55,200	11,000
1956	1,900	3,800	4,600	4,000	3,100	3,800	700	57,000	12,100
1957	1,900	3,900	4,900	4,100	3,100	3,900	700	57,500	12,500
1958	1,900	3,700	5,000	3,900	3,100	3,900	600	56,000	13,000
1959	1,700	3,800	5,700	3,900	3,100	3,900	600	56,300	13,100
1960	1,550	2,878	6,247	6,329	4,043	3,708	571	54,908	9,700
1961	1,675	2,154	6,657	6,327	3,710	3,797	582	55,300	9,400
1962	1,685	2,140	6,778	6,082	3,628	3,761	615	55,648	9,600
1963	1,686	2,111	6,600	5,778	3,647	3,648	587	54,700	8,817
1964	1,802	2,038	6,870	5,790	3,575	3,716	581	54,700	8,510
1965	2,032	2,162	7,140	5,710	3,500	3,802	605	55,000	8,100
1966	2,211	2,206	7,445	5,072	3,249	3,806	658	55,500	8,000
1967	2,283	2,316	7,884	6,441	3,165	3,660	670	55,541	8,000
1968	2,437	2,334	8,747	6,604	3,370	3,614	654	55,770	8,000
1969	2,515	2,440	9,034	7,111	3,600	3,650	690	55,102	8,000
1970	2,560	2,406	9,400	6,960	3,400	3,600	690	55,574	8,100
1971	2,500	2,500	9,400	6,900	4,500	3,600	700	55,600	8,100
1972	2,700	2,500	9,700	6,800	4,000	3,700	800	55,400	8,000
1973	2,700	2,400	10,100	7,000	3,800	3,800	800	55,700	8,000
1974	2,800	2,500	10,200	7,000	3,200	3,800	800	57,400	8,000
1975	3,000	2,800	10,400	6,800	3,300	3,800	800	57,200	8,000
1976	3,200	2,900	10,700	6,800	3,300	3,900	1,000	58,700	8,000
1977	3,300	3,000	10,800	6,100	3,300	3,900	1,000	58,800	8,000
1978	3,500	3,400	11,000	5,900	3,400	3,700	1,100	59,600	8,000
1979	3,600	3,500	11,000	5,700	3,200	3,700	1,200	60,200	8,100
1980	3,700	3,700	12,000	5,200	3,000	3,600	1,200	60,600	8,100
1981	3,800	3,700	12,100	6,200	3,000	3,600	1,200	60,600	8,000
1982	3,800	3,700	12,500	6,200	3,000	3,700	1,200	60,600	8,000
1983	4,200	3,700	12,500	6,200	3,400	3,700	1,200	60,600	8,000
1984	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1985	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1986	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1987	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1988	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1989	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1990	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1991	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1992	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1993	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1994	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1995	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1996	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1997	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1998	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
1999	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2000	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2001	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2002	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2003	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2004	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2005	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2006	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2007	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2008	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2009	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2010	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2011	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2012	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2013	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2014	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2015	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2016	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2017	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2018	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2019	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000
2020	4,300	3,700	12,500	6,100	3,400	3,700	1,200	60,600	8,000

Year	Lander County	Lincoln County	Leas County	Rutherford County	Way County	Franklin County	Wayne County	Franklin County	White Pine County
2000	7,226	4,167	15,751	5,955	50,814	7,068	3,772	329,021	11,007
2001	7,287	4,154	16,840	5,947	51,917	7,238	3,853	355,752	11,120
2002	7,345	4,211	16,903	7,021	51,940	7,384	3,956	342,446	11,229
2003	8,461	4,277	17,116	7,037	54,052	7,576	4,018	349,004	11,334
2004	7,411	4,252	18,248	7,062	55,127	7,644	3,991	354,019	11,453
2005	7,563	4,247	19,377	7,066	55,181	7,777	4,170	362,069	11,577
2006	7,553	4,250	19,499	7,138	57,221	7,900	4,244	368,743	11,616
2007	7,578	4,273	19,615	7,159	58,294	8,012	4,315	375,158	11,750
2008	7,640	4,295	19,715	7,148	59,258	8,144	4,385	381,490	11,778
2009	7,691	4,296	19,805	7,157	49,230	8,245	4,454	387,075	11,850
2010	7,777	4,307	19,873	7,182	47,183	8,309	4,519	393,031	11,977
2011	7,771	4,316	19,932	7,136	42,112	8,437	4,581	395,929	11,978
2012	7,752	4,325	19,968	7,110	41,000	8,548	4,649	405,363	12,035
2013	7,810	4,339	19,990	7,231	41,360	8,619	4,697	411,577	12,052
2014	7,834	4,349	19,999	7,232	41,688	8,696	4,741	417,364	12,125
2015	7,899	4,345	19,914	7,241	40,471	8,777	4,801	421,017	12,162
2016	7,976	4,351	20,337	7,249	46,210	8,853	4,818	426,377	12,191
2017	7,892	4,353	21,727	7,254	46,000	8,391	4,892	431,346	12,217
2018	7,904	4,353	20,589	7,254	47,544	8,456	4,932	435,601	12,215
2019	7,914	4,36	21,198	7,261	48,771	8,573	4,968	441,631	12,247
2020	7,926	4,363	20,170	7,262	49,684	9,011	5,001	448,460	12,253

Source: FDOT, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000
 *2010-2019 data for Cherokee County based on figures adopted by the Cherokee County Department of Community Planning.
 **2010-2019 data for Wilkes County were based on figures from the previous figures adopted by the Wilkes County Department of Community Planning.

Nevada Population Share Analysis Summary

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Population Shares Based on Population Estimates and Forecasts (see below)

Year	Nevada	Clatsop County	Humboldt County	Clark County	Washoe County	Elko County	Esmeralda County	Lincoln County	Humboldt County
1970	99.00%	2.6%	1.60%	30.09%	1.9%	1.36%	0.38%	0.50%	3.02%
1971	100.00%	2.6%	1.61%	30.37%	1.2%	1.1%	0.38%	0.54%	3.02%
1972	100.00%	2.5%	1.59%	32.09%	1.4%	0.9%	0.3%	0.47%	2.60%
1973	100.00%	2.4%	1.47%	33.42%	1.5%	0.9%	0.3%	0.49%	2.5%
1974	100.00%	2.3%	1.27%	35.69%	1.3%	0.7%	0.2%	0.45%	2.5%
1975	100.00%	2.1%	1.1%	37.5%	1.1%	0.6%	0.2%	0.41%	2.16%
1976	100.00%	2.0%	0.9%	39.13%	1.0%	0.5%	0.2%	0.42%	2.25%
1977	100.00%	2.0%	0.85%	40.60%	1.0%	0.4%	0.2%	0.40%	2.12%
1978	100.00%	2.0%	0.73%	41.44%	1.2%	0.2%	0.1%	0.35%	2.04%
1979	100.00%	2.0%	0.7%	42.00%	1.2%	0.2%	0.2%	0.35%	1.9%
1980	100.00%	2.0%	0.6%	42.5%	1.2%	0.1%	0.2%	0.37%	1.90%
1981	100.00%	2.0%	0.5%	43.0%	1.2%	0.1%	0.2%	0.37%	1.90%
1982	100.00%	2.0%	0.4%	43.32%	1.2%	0.0%	0.2%	0.36%	1.84%
1983	100.00%	2.0%	0.35%	43.46%	1.2%	0.0%	0.2%	0.35%	1.74%
1984	100.00%	2.0%	0.2%	43.50%	1.3%	0.0%	0.1%	0.35%	1.62%
1985	100.00%	2.0%	0.1%	43.26%	1.3%	0.0%	0.1%	0.34%	1.6%
1986	100.00%	2.0%	0.0%	42.6%	1.3%	0.0%	0.1%	0.3%	1.4%
1987	100.00%	2.0%	0.0%	41.7%	1.3%	0.0%	0.1%	0.28%	1.2%
1988	100.00%	2.0%	0.0%	40.0%	1.3%	0.0%	0.1%	0.26%	1.0%
1989	100.00%	2.0%	0.0%	38.0%	1.3%	0.0%	0.1%	0.24%	0.8%
1990	100.00%	2.0%	0.0%	36.1%	1.3%	0.0%	0.1%	0.22%	0.6%
1991	100.00%	2.0%	0.0%	34.3%	1.3%	0.0%	0.1%	0.2%	0.4%
1992	100.00%	2.0%	0.0%	32.6%	1.3%	0.0%	0.1%	0.18%	0.2%
1993	100.00%	2.0%	0.0%	31.1%	1.3%	0.0%	0.1%	0.16%	0.1%
1994	100.00%	2.0%	0.0%	29.8%	1.3%	0.0%	0.1%	0.14%	0.0%
1995	100.00%	2.0%	0.0%	28.6%	1.3%	0.0%	0.1%	0.12%	0.0%
1996	100.00%	2.0%	0.0%	27.5%	1.3%	0.0%	0.1%	0.1%	0.0%
1997	100.00%	2.0%	0.0%	26.5%	1.3%	0.0%	0.1%	0.08%	0.0%
1998	100.00%	2.0%	0.0%	25.6%	1.3%	0.0%	0.1%	0.06%	0.0%
1999	100.00%	2.0%	0.0%	24.8%	1.3%	0.0%	0.1%	0.04%	0.0%
2000	100.00%	2.0%	0.0%	24.1%	1.3%	0.0%	0.1%	0.02%	0.0%
2001	100.00%	2.0%	0.0%	23.5%	1.3%	0.0%	0.1%	0.01%	0.0%
2002	100.00%	2.0%	0.0%	23.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2003	100.00%	2.0%	0.0%	22.6%	1.3%	0.0%	0.1%	0.0%	0.0%
2004	100.00%	2.0%	0.0%	22.3%	1.3%	0.0%	0.1%	0.0%	0.0%
2005	100.00%	2.0%	0.0%	22.1%	1.3%	0.0%	0.1%	0.0%	0.0%
2006	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2007	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2008	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2009	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2010	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2011	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2012	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2013	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2014	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2015	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2016	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2017	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2018	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2019	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%
2020	100.00%	2.0%	0.0%	22.0%	1.3%	0.0%	0.1%	0.0%	0.0%

Year	Assets	Current LTB	Thousand Dollars	Clark County	Washoe County	Elko County	Comstock County	Esmeralda County	Humboldt County
2000	100.00%	2.74%	1,574	66.60%	2.16%	2.90%	0.07%	0.09%	0.99%
2001	100.00%	2.70%	1,508	64.71%	2.18%	2.96%	0.07%	0.09%	0.98%
2002	100.00%	2.67%	1,498	65.12%	2.18%	2.94%	0.07%	0.09%	0.99%
2003	100.00%	2.61%	1,294	65.47%	2.09%	2.81%	0.07%	0.09%	0.99%
2004	100.00%	2.61%	1,278	65.78%	2.07%	2.49%	0.07%	0.09%	0.99%
2005	100.00%	2.56%	1,268	70.06%	2.04%	2.47%	0.07%	0.09%	0.99%
2006	100.00%	2.57%	1,268	70.09%	2.04%	2.45%	0.07%	0.09%	0.99%
2007	100.00%	2.56%	1,268	70.54%	2.03%	2.41%	0.07%	0.09%	0.99%
2008	100.00%	2.54%	1,268	70.72%	2.03%	2.42%	0.07%	0.09%	0.99%
2009	100.00%	2.52%	1,258	70.82%	2.03%	2.41%	0.07%	0.09%	0.99%
2010	100.00%	2.52%	1,258	70.96%	2.03%	2.39%	0.07%	0.09%	0.99%
2011	100.00%	2.49%	1,258	71.06%	2.02%	2.38%	0.07%	0.09%	0.99%
2012	100.00%	2.48%	1,258	71.11%	2.01%	2.37%	0.07%	0.09%	0.99%
2013	100.00%	2.46%	1,258	71.27%	2.01%	2.37%	0.07%	0.09%	0.99%
2014	100.00%	2.47%	1,258	71.28%	2.02%	2.38%	0.07%	0.09%	0.99%
2015	100.00%	2.44%	1,258	71.32%	2.02%	2.38%	0.07%	0.09%	0.99%
2016	100.00%	2.42%	1,258	71.38%	2.02%	2.34%	0.07%	0.09%	0.99%
2017	100.00%	2.42%	1,258	71.36%	2.03%	2.33%	0.07%	0.09%	0.99%
2018	100.00%	2.41%	1,268	71.28%	2.03%	2.32%	0.07%	0.09%	0.99%
2019	100.00%	2.40%	1,268	71.55%	2.03%	2.31%	0.07%	0.09%	0.99%
2020	100.00%	2.38%	1,268	71.49%	2.03%	2.30%	0.07%	0.09%	0.99%

Source: "Performance Indicators: Nevada State Demographic, Economic Forecasts, Nevada Division of Water Planning (NDWP) for Clark County and Elko County Issues on Issues Addressed by the Clark County Department of Comprehensive Planning Report on Nevada for Nevada County have been modeled from the economic forecast adopted by the Nevada County Department of Community Development.

Nevada Population Share Analysis Summary

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Population Shares Based on Population Estimates and Forecasts (see below)

Year	Lander County	Lincoln County	Lyon County	Mineral County	Myo County	Perkins County	Storey County	Washoe County	White Pine County
1950	1.15%	2.39%	2.40%	1.47%	1.99%	1.94%	0.21%	31.17%	1.38%
1951	1.15%	2.36%	2.36%	1.45%	1.97%	1.93%	0.20%	31.20%	1.46%
1952	1.09%	2.23%	2.22%	1.35%	1.94%	1.88%	0.24%	30.70%	1.51%
1953	0.93%	2.11%	2.02%	1.33%	1.82%	1.77%	0.25%	31.27%	1.55%
1954	0.94%	1.99%	2.05%	1.09%	1.81%	1.75%	0.20%	30.25%	1.41%
1955	0.82%	1.71%	2.00%	1.04%	1.66%	1.62%	0.22%	29.61%	1.27%
1956	0.77%	1.59%	1.92%	1.25%	1.64%	1.58%	0.22%	28.71%	1.04%
1957	0.73%	1.52%	1.84%	1.35%	1.61%	1.56%	0.24%	29.25%	1.04%
1958	0.67%	1.43%	1.75%	1.43%	1.50%	1.50%	0.24%	29.32%	1.75%
1959	0.61%	1.35%	1.66%	1.57%	1.35%	1.37%	0.27%	29.30%	1.43%
1960	0.49%	1.21%	1.57%	1.60%	1.21%	1.10%	0.20%	29.44%	1.55%
1961	0.38%	1.07%	1.47%	1.71%	1.07%	1.04%	0.20%	28.94%	1.17%
1962	0.33%	0.98%	1.39%	1.82%	1.07%	0.97%	0.19%	28.09%	1.04%
1963	0.30%	0.92%	1.30%	1.73%	1.04%	0.89%	0.18%	27.21%	1.04%
1964	0.31%	0.87%	1.20%	1.55%	1.05%	0.75%	0.17%	26.40%	1.00%
1965	0.33%	0.86%	1.17%	1.48%	1.01%	0.73%	0.17%	26.70%	1.00%
1966	0.35%	0.86%	1.14%	1.39%	1.02%	0.71%	0.17%	26.17%	1.01%
1967	0.36%	0.87%	1.11%	1.32%	1.02%	0.69%	0.17%	25.73%	1.01%
1968	0.37%	0.87%	1.07%	1.25%	1.03%	0.62%	0.17%	25.19%	1.01%
1969	0.34%	0.81%	1.05%	1.18%	1.04%	0.57%	0.17%	24.62%	1.01%
1970	0.34%	0.81%	1.02%	1.11%	1.07%	0.54%	0.17%	24.70%	1.01%
1971	0.32%	0.79%	1.00%	1.07%	0.94%	0.50%	0.16%	24.72%	1.01%
1972	0.30%	0.74%	1.00%	1.04%	0.91%	0.49%	0.16%	24.70%	1.01%
1973	0.27%	0.69%	1.00%	1.02%	0.88%	0.46%	0.16%	24.77%	1.01%
1974	0.24%	0.67%	1.01%	1.01%	0.87%	0.44%	0.16%	24.75%	1.00%
1975	0.20%	0.64%	1.00%	1.00%	0.86%	0.43%	0.16%	24.58%	1.00%
1976	0.19%	0.61%	1.00%	1.00%	0.85%	0.42%	0.15%	24.44%	1.00%
1977	0.19%	0.61%	1.00%	1.00%	0.85%	0.42%	0.15%	24.44%	1.00%
1978	0.19%	0.61%	1.00%	1.00%	0.85%	0.42%	0.15%	24.44%	1.00%
1979	0.19%	0.61%	1.00%	1.00%	0.85%	0.42%	0.15%	24.40%	1.00%
1980	0.31%	0.87%	1.50%	1.78%	1.13%	0.71%	0.19%	24.70%	1.07%
1981	0.30%	0.84%	1.47%	1.74%	1.10%	0.67%	0.18%	23.83%	0.95%
1982	0.28%	0.81%	1.44%	1.70%	1.07%	0.63%	0.18%	23.57%	0.90%
1983	0.27%	0.79%	1.41%	1.67%	1.04%	0.60%	0.18%	23.40%	0.87%
1984	0.26%	0.77%	1.38%	1.64%	1.01%	0.57%	0.18%	23.24%	0.84%
1985	0.25%	0.75%	1.35%	1.61%	0.98%	0.54%	0.18%	23.08%	0.81%
1986	0.24%	0.73%	1.32%	1.58%	0.95%	0.51%	0.18%	22.92%	0.78%
1987	0.23%	0.71%	1.29%	1.55%	0.92%	0.48%	0.18%	22.76%	0.75%
1988	0.22%	0.69%	1.26%	1.52%	0.89%	0.45%	0.18%	22.60%	0.72%
1989	0.21%	0.67%	1.23%	1.49%	0.86%	0.42%	0.18%	22.44%	0.69%
1990	0.20%	0.65%	1.20%	1.46%	0.83%	0.39%	0.18%	22.28%	0.66%
1991	0.19%	0.63%	1.17%	1.43%	0.80%	0.36%	0.18%	22.12%	0.63%
1992	0.17%	0.60%	1.14%	1.40%	0.77%	0.33%	0.18%	21.96%	0.60%
1993	0.16%	0.58%	1.11%	1.37%	0.74%	0.30%	0.18%	21.80%	0.57%
1994	0.15%	0.56%	1.08%	1.34%	0.71%	0.27%	0.18%	21.64%	0.54%
1995	0.14%	0.54%	1.05%	1.31%	0.68%	0.24%	0.18%	21.48%	0.51%
1996	0.13%	0.52%	1.02%	1.28%	0.65%	0.21%	0.18%	21.32%	0.48%
1997	0.12%	0.50%	1.00%	1.25%	0.62%	0.18%	0.18%	21.16%	0.45%
1998	0.11%	0.48%	0.97%	1.22%	0.59%	0.15%	0.18%	21.00%	0.42%
1999	0.10%	0.46%	0.94%	1.19%	0.56%	0.12%	0.18%	20.84%	0.39%

Year	Carlin County	Harris County	Leon County	Mineral County	Wye County	Boone County	Esmeralda County	Washoe County	White Pine County
2002	0.38%	0.27%	1.70%	0.53%	1.55%	0.56%	0.10%	16.58%	0.55%
2003	0.39%	0.28%	1.67%	0.54%	1.53%	0.55%	0.10%	16.08%	0.54%
2004	0.39%	0.28%	1.66%	0.53%	1.54%	0.54%	0.10%	16.04%	0.54%
2005	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2006	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.64%	0.54%
2007	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2008	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2009	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2010	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2011	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2012	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2013	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2014	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2015	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2016	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2017	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2018	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2019	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%
2020	0.39%	0.28%	1.68%	0.53%	1.54%	0.54%	0.10%	15.47%	0.54%

Source: Population Growth, Nevada State Department of Population Research, Nevada State Department of Water Planning (NDWP) and the Nevada State Department of Water Planning, based on Projections adopted by the Nevada State Department of Water Planning; Simulation Scenario for Washoe County, based on the 2010 Census and the Nevada State Department of Water Planning; Department of Community Development.

Nevada Population Growth Estimates and Forecasts

Population Estimates--1950-1997, NDWP Population Forecasts--2020

Annual Average Growth Rates of Growth for Decennial Periods (Persons and percent)

State/County	1950 Population Estimate	1960 Population Estimate	1970 Population Estimate	1980 Population Estimate	1990 Population Estimate	1997 Population Estimate	2020 NDWP Population Forecast	1997-2020 Population and Percent Change
NEVADA	163,145	287,608	494,998	800,908	1,236,430	1,779,854	3,046,844	1,466,996
Annual Average Growth	--	2.92%	2.83%	4.52%	4.44%	5.33%	2.59%	7.33%
Carson City	4,198	8,695	18,054	32,992	40,830	50,410	10,587	22,177
Annual Average Growth	--	5.69%	7.19%	7.15%	2.40%	2.01%	1.73%	4.16%
Churchill County	6,188	8,505	12,650	13,317	14,160	15,260	18,296	14,406
Annual Average Growth	--	3.23%	2.27%	2.21%	2.76%	4.03%	2.28%	60.23%
Clark County	98,811	128,037	277,233	460,085	679,250	1,192,209	2,148,075	965,846
Annual Average Growth	--	10.83%	9.97%	5.66%	5.32%	9.13%	7.91%	82.73%
Douglas County	2,925	3,535	7,067	19,431	25,040	19,490	51,854	22,214
Annual Average Growth	--	5.86%	7.02%	10.24%	3.73%	5.64%	2.15%	36.2%
Elko County	1,000	12,051	25,916	41,989	33,770	42,720	79,213	27,403
Annual Average Growth	--	6.39%	1.47%	3.16%	6.94%	2.26%	8%	47.0%
Esmeralda County	671	674	623	777	1,292	460	1,531	190
Annual Average Growth	--	0.07%	-0.17%	2.21%	5.65%	-1.73%	0.28%	6.2%
Eureka County	895	775	953	1,198	1,190	1,694	2,277	777
Annual Average Growth	--	-1.44%	1.93%	2.48%	2.01%	9.39%	1.42%	14.5%
Humboldt County	4,870	5,721	6,350	9,440	10,020	17,120	25,114	7,594
Annual Average Growth	--	1.65%	1.05%	4.01%	3.96%	4.33%	1.71%	10.3%
Lander County	1,360	1,585	2,651	4,598	6,340	7,050	9,937	800
Annual Average Growth	--	1.62%	3.25%	4.39%	4.22%	1.19%	0.57%	13.7%
Lincoln County	3,450	2,278	2,526	3,732	3,840	4,110	4,362	290
Annual Average Growth	--	-1.90%	0.61%	3.98%	0.21%	1.09%	0.28%	6.2%
Lyon County	3,763	6,215	8,437	13,924	20,950	30,270	54,170	21,800
Annual Average Growth	--	6.37%	3.05%	4.66%	4.24%	5.31%	1.79%	78.4%
Mineral County	2,538	3,320	6,961	6,212	5,750	6,460	7,262	792
Annual Average Growth	--	1.25%	3.99%	-1.19%	-0.46%	3.46%	0.27%	5.9%
Nye County	3,161	4,642	5,459	9,045	18,130	27,510	48,684	21,074
Annual Average Growth	--	4.12%	1.63%	5.15%	5.27%	6.4%	5.74%	26.2%
Pershing County	3,122	2,173	2,666	1,408	1,590	6,691	9,001	2,710
Annual Average Growth	--	-3.12%	1.78%	-2.57%	2.91%	5.46%	1.49%	16.4%
Storey County	687	57	867	1,305	2,360	2,520	5,061	1,481
Annual Average Growth	--	-1.33%	2.01%	5.01%	5.57%	1.55%	1.66%	42.1%
Washoe County	52,484	84,085	122,574	195,625	287,220	308,790	448,490	139,709
Annual Average Growth	--	5.59%	5.73%	4.88%	2.98%	2.65%	1.79%	13.2%
White Pine County	2,179	3,002	19,140	3,167	9,410	10,640	12,251	1,613
Annual Average Growth	--	0.96%	6.15%	-2.48%	1.43%	2.77%	0.97%	13.2%

Note: Annual average growth rates are annual changes measured from December 31 of one year to December 31 of the next year.

This Source: Population Estimates--Nevada State Census data (available at www.nv.gov); Annual Nevada Director of Finance and Planning (NDWP) Forecast of Nevada's population and per capita income projections (available at www.nv.gov); Department of Commerce and Economic Development, Nevada State Department of Economic Planning, Forecast for Nevada County and County population forecasts adopted by the Nevada State Department of Economic Planning, Nevada State Department of Economic Planning.

Nevada Population Share Estimates and Forecasts

Population Estimates—1950–1997, NDWP Population Forecasts—2020

Population Estimates and Shares of Total State Population (Persons and percent of total)

State/County	1950 Population Estimate	1960 Population Estimate	1970 Population Estimate	1980 Population Estimate	1990 Population Estimate	1997 Population Estimate	2020 NDWP Population Forecast	1997-2020 Population and Share Change
NEVADA	161,145	287,660	494,890	680,508	1,134,130	1,770,821	3,046,546	1,266,99%
Carson City	4,198	8,020	16,354	32,023	46,950	50,410	92,537	26,17%
Percent Total State	2.61%	2.79%	3.31%	4.71%	4.14%	2.85%	3.04%	4.43%
Churchill County	6,338	8,505	10,650	13,915	15,120	23,860	38,756	14,45%
Percent Total State	3.94%	2.96%	2.15%	2.04%	1.34%	1.34%	1.26%	-0.08%
Clark County	48,511	138,734	275,230	451,087	770,280	1,492,201	2,178,046	686,84%
Percent Total State	30.24%	47.88%	55.61%	66.31%	67.51%	84.28%	71.49%	-12.79%
Douglas County	2,325	3,275	3,007	16,421	25,070	38,590	61,854	23,264
Percent Total State	1.44%	1.14%	0.61%	2.41%	2.21%	2.2%	2.03%	-0.17%
Elko County	1,703	2,051	11,946	19,969	31,370	43,710	70,113	22,402
Percent Total State	1.06%	0.71%	2.41%	2.91%	2.73%	2.47%	2.30%	-0.17%
Esmeralda County	61	204	623	777	1,250	1,790	590	-90
Percent Total State	0.03%	0.07%	0.12%	0.11%	0.11%	0.08%	0.02%	-0.05%
Esque County	897	775	955	1,198	1,350	1,690	2,230	575
Percent Total State	0.56%	0.27%	0.19%	0.18%	0.12%	0.09%	0.07%	-0.02%
Humboldt County	4,816	5,623	6,580	9,449	13,020	15,520	23,114	7,594
Percent Total State	2.99%	1.96%	1.32%	1.38%	1.06%	0.87%	0.76%	-0.11%
Lander County	1,890	1,950	2,651	4,056	6,140	7,050	7,520	850
Percent Total State	1.17%	0.68%	0.54%	0.59%	0.54%	0.39%	0.25%	-0.14%
Lauderdale County	3,850	2,378	2,526	3,732	3,820	4,110	4,365	253
Percent Total State	2.39%	0.83%	0.51%	0.55%	0.34%	0.23%	0.14%	-0.09%
Lincoln County	3,702	6,245	8,457	3,904	20,990	30,370	51,120	21,860
Percent Total State	2.29%	2.17%	1.70%	0.57%	1.85%	1.71%	1.68%	0.03%
Mineral County	5,588	5,329	6,961	6,210	6,710	5,560	7,262	402
Percent Total State	3.47%	1.86%	1.41%	0.91%	0.59%	0.31%	0.24%	-0.35%
Nye County	3,201	4,642	3,479	9,049	14,190	27,610	48,587	21,074
Percent Total State	1.99%	1.61%	0.70%	1.33%	1.24%	1.56%	1.60%	0.05%
Perkins County	3,192	2,178	2,826	3,705	1,520	6,690	9,001	2,401
Percent Total State	1.98%	0.76%	0.57%	0.54%	0.13%	0.37%	0.30%	0.08%
Storey County	557	371	856	1,501	2,660	3,520	5,021	1,461
Percent Total State	0.34%	0.13%	0.17%	0.22%	0.23%	0.20%	0.16%	-0.07%
Washoe County	50,431	85,888	122,574	191,623	257,120	508,090	743,400	230,700
Percent Total State	31.33%	29.88%	24.78%	28.16%	22.66%	28.74%	24.72%	-3.02%
White Pine County	5,470	9,732	15,140	8,167	9,410	10,640	12,250	1,610
Percent Total State	3.39%	3.38%	3.05%	1.20%	0.83%	0.60%	0.40%	-0.23%

Note: Percent of Total State refers to persons and does not include institutional populations.

Data Source: Population estimates for Nevada State through 1997 by population Research Institute Division, Nevada State Office of Planning (NDWP). Forecasts for Clark County are based on population projections from the Clark County Growth and Development Commission, and forecasts for Washoe County are based on the Clark County Growth and Development Commission's Clark County Department for Community Development.

Nevada Population Estimates and Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—Jul. 1st (Persons)

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Year	Demographic Estimates and Forecasts	Year-Year Change in Population (Percent)	Year-Year Percent Change	Estimated and MWFP 2000/2010/2020 Forecasts	Year-Year Change in Population (Percent)	Year-Year Percent Change	Forecasted Population Difference (Persons)	Percent Difference
1950	161,145	..		161,145	--	--
1951	165,430	4.55%	2.64%	163,400	1,250	0.64%	--	--
1952	175,930	10.500	6.75%	171,900	13,500	5.09%	--	--
1953	184,100	8.700	4.95%	184,000	8,000	4.02%	--	--
1954	199,800	14,300	8.23%	199,800	12,200	6.93%	--	--
1955	220,200	20,400	10.21%	220,200	20,400	10.21%	--	--
1956	240,100	19,900	9.04%	240,100	19,900	9.04%	--	--
1957	249,500	9,400	3.92%	249,500	9,400	3.92%	--	--
1958	259,200	9,700	3.89%	259,200	9,700	3.90%	--	--
1959	273,500	14,300	7.05%	273,500	14,300	7.06%	--	--
1960	287,900	10,100	3.69%	287,900	10,100	3.69%	--	--
1961	297,180	9,520	3.31%	297,180	9,520	3.31%	--	--
1962	311,500	14,314	6.00%	311,500	14,314	6.00%	--	--
1963	326,190	21,290	6.79%	326,190	21,290	6.79%	--	--
1964	360,134	23,124	6.90%	360,134	23,124	6.90%	--	--
1965	385,786	26,142	7.17%	386,466	26,252	7.18%	--	--
1966	403,696	37,250	9.16%	403,996	37,290	9.16%	--	--
1967	409,843	6,147	1.52%	409,843	6,147	1.52%	--	--
1968	429,073	19,430	4.74%	429,273	19,430	4.74%	--	--
1969	480,000	50,927	11.89%	480,000	50,927	11.89%	--	--
1970	494,990	14,990	3.09%	494,990	14,990	3.09%	--	--
1971	500,000	25,010	5.05%	520,000	20,000	3.99%	--	--
1972	516,800	26,800	5.15%	516,800	26,800	5.15%	--	--
1973	569,500	22,400	4.10%	569,200	29,400	4.76%	--	--
1974	596,700	37,500	6.25%	596,700	27,500	4.61%	--	--
1975	627,000	30,300	5.08%	627,000	23,300	3.94%	--	--
1976	646,800	26,800	4.22%	646,800	26,800	4.32%	--	--
1977	678,100	31,300	4.94%	678,100	31,300	4.84%	--	--
1978	719,200	41,100	6.05%	719,200	41,100	6.05%	--	--
1979	765,500	46,300	6.40%	765,500	46,300	6.40%	--	--
1980	800,500	35,000	4.59%	800,500	35,000	4.60%	--	--
1981	846,100	45,600	5.70%	846,100	45,600	5.70%	--	--
1982	870,900	24,750	2.92%	870,900	24,750	2.92%	--	--
1983	897,100	26,190	2.91%	897,100	26,190	3.01%	--	--
1984	921,400	24,300	2.81%	921,400	24,300	2.80%	--	--
1985	955,810	34,210	3.60%	955,810	34,210	3.60%	--	--
1986	993,220	37,410	3.91%	993,220	37,410	3.91%	--	--
1987	1,013,910	41,300	4.16%	1,013,910	41,300	4.17%	--	--
1988	1,036,130	61,090	5.93%	1,036,130	61,090	5.93%	--	--
1989	1,110,340	46,010	6.04%	1,110,340	66,210	6.04%	--	--
1990	1,226,130	75,790	6.79%	1,226,130	75,790	6.79%	--	--
1991	1,290,390	64,260	5.12%	1,290,390	64,260	5.12%	--	--
1992	1,345,010	44,620	3.42%	1,345,010	45,620	3.42%	--	--
1993	1,398,810	53,800	4.00%	1,398,810	53,800	4.00%	--	--
1994	1,461,490	62,680	6.62%	1,461,490	62,680	6.62%	--	--
1995	1,509,150	47,660	3.24%	1,509,150	47,660	3.24%	--	--
1996	1,664,570	105,420	6.99%	1,664,570	105,420	6.99%	--	--
1997	1,719,610	95,280	5.73%	1,719,610	95,280	5.73%	--	--
1998	1,874,760	91,910	5.31%	1,874,760	95,600	5.12%	3,690	2.00%
1999	1,961,560	85,900	4.64%	1,961,512	86,750	4.61%	5,048	2.57%

Nevada Population Estimates and Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

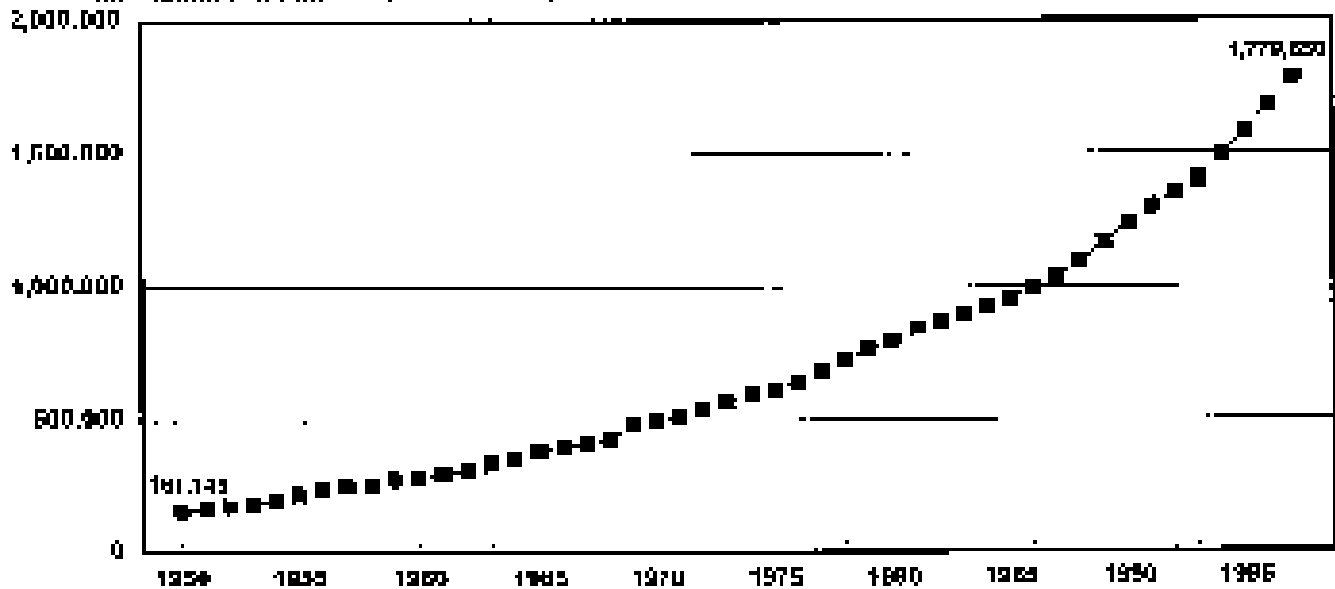
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Year	Population Estimated and Forecast	Change in Population (Persons)	Percent Change	Estimate and NOAA Modified Forecasts	Change in Population (Persons)	Percent Change	Estimated Population 1998-2020 (Persons)	Percent Difference
2000	2,031,000	72,500	3.65%	1,985,257	60,945	3.07%	47,267	2.38%
2001	2,110,560	79,560	3.92%	2,065,301	76,044	3.83%	57,567	2.69%
2002	2,199,190	88,630	4.17%	2,152,430	87,129	4.03%	65,740	2.91%
2003	2,275,470	76,280	3.47%	2,235,757	70,327	3.29%	70,015	3.08%
2004	2,345,000	69,530	3.05%	2,317,255	68,498	3.11%	74,705	3.18%
2005	2,421,020	75,990	3.26%	2,341,374	67,120	2.86%	79,846	3.29%
2006	2,487,040	66,020	2.73%	2,407,479	66,098	2.74%	80,468	3.33%
2007	2,545,000	57,960	2.32%	2,470,215	62,736	2.54%	87,165	3.41%
2008	2,599,800	54,810	2.15%	2,520,304	59,599	2.37%	100,746	3.95%
2009	2,703,200	103,400	3.81%	2,546,195	58,844	2.34%	118,617	4.19%
2010	2,831,000	127,800	4.70%	2,640,300	51,305	2.09%	143,505	5.15%
2011	2,963,800	132,800	4.71%	2,671,437	31,137	1.17%	170,463	6.02%
2012	3,046,840	83,040	2.80%	2,739,507	48,197	1.75%	207,187	7.05%
2013	3,092,600	45,760	1.48%	2,785,141	45,187	1.63%	247,510	8.16%
2014	3,121,160	28,560	0.92%	2,823,168	43,027	1.52%	290,949	9.59%
2015	3,200,000	78,840	2.53%	2,868,909	40,811	1.43%	341,261	11.64%
2016	3,297,200	97,200	2.98%	2,907,509	38,609	1.33%	399,581	13.64%
2017	3,365,800	68,600	2.07%	2,944,531	37,013	1.27%	468,150	15.55%
2018	3,450,840	85,040	2.50%	2,980,106	35,476	1.20%	520,720	17.45%
2019	-	-	-	3,014,129	33,923	1.14%	-	-
2020	-	-	-	3,048,846	32,728	1.09%	-	-
Growth Rate Analysis	1950-1997		<u>5.20%</u>					
Average Annual Rate	1980-1990		<u>5.57%</u>					
of Change's Rate To	1960-1970		<u>5.52%</u>					
Total Annual (Persons)	1970-1980		<u>4.89%</u>					
	1980-1990		<u>4.44%</u>					
	1990-1997		<u>5.13%</u>					
Forecast Periods	1995-2018		3.27%		3.48%	NOAA Modified Forecast		
	1998-2018		3.61%		3.25%			
	2008-2018		2.90%		1.65%			

Source: Nevada Office of the State Demographer (effective April 15, 1998); Nevada Division of Water Planning (DWP) (City of Primm population estimates used on Clark County); Department of Comprehensive Planning, University of Nevada, Reno (county population forecasts based on forecasts provided by the Washoe County Department of Community Development).

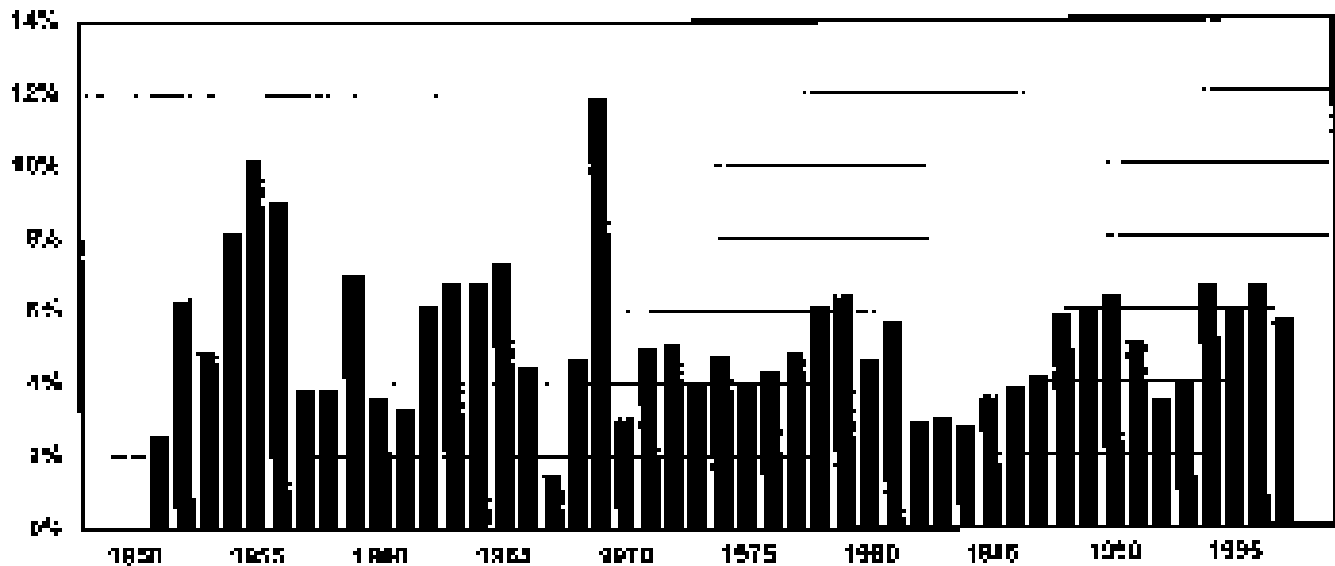
Nevada Population Analysis

State of Nevada Resident Population Estimates
 Statewide Population Estimates as of July 1, (Persons)



Source: Nevada State Demographer.

State of Nevada Population Growth Rates
 Population Growth Rates as of July 1, (Percent)

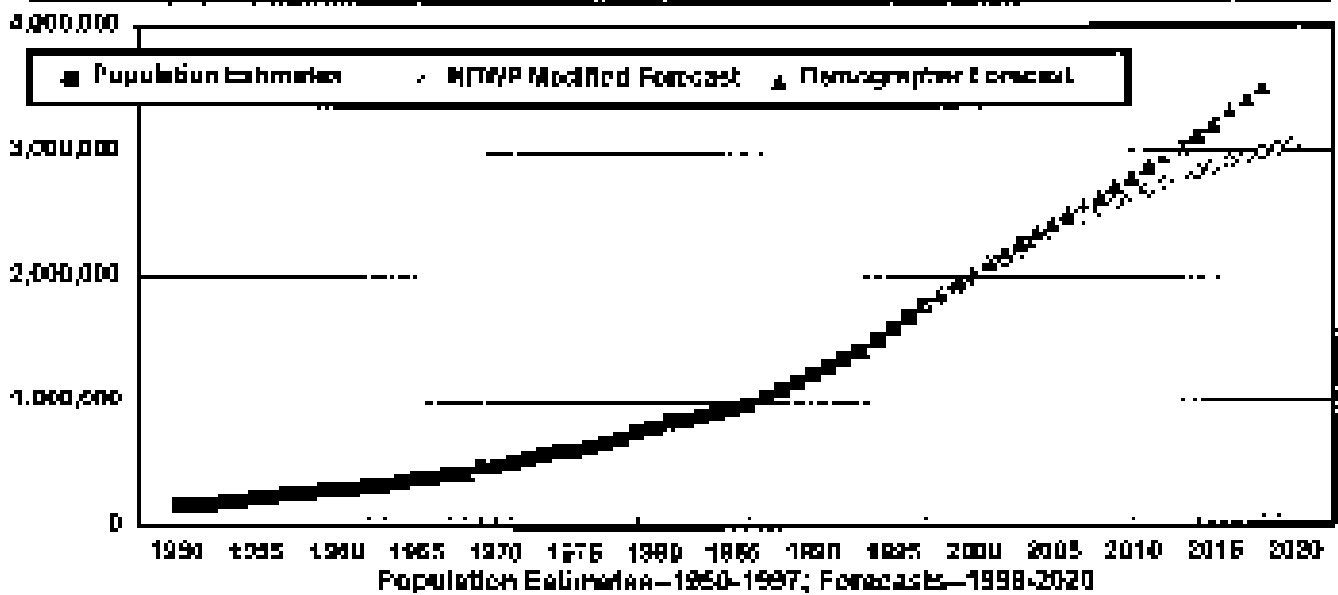


Source: Nevada State Demographer.

Nevada Population Forecast Analysis

Nevada Population Estimates and Forecasts

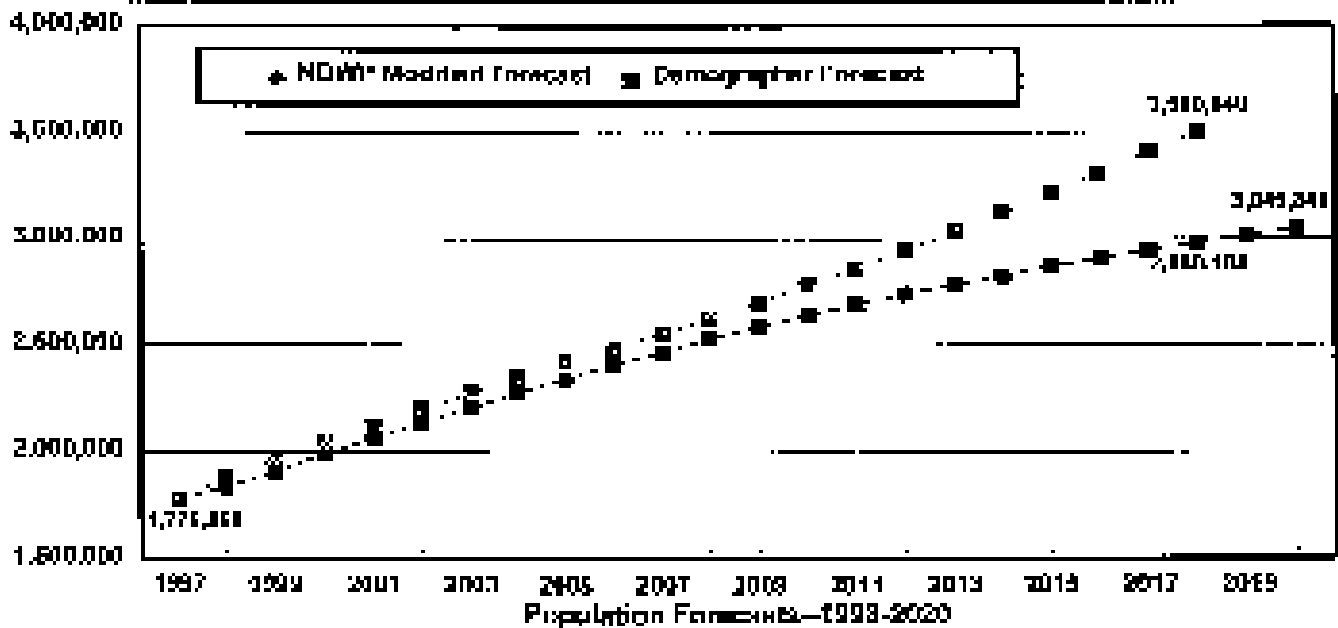
Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Comptroller, Nevada State and Local Planning Institute forecasts.

Nevada Population Forecasts

State Demographer and NDWP Modified--July 1 (Persons)

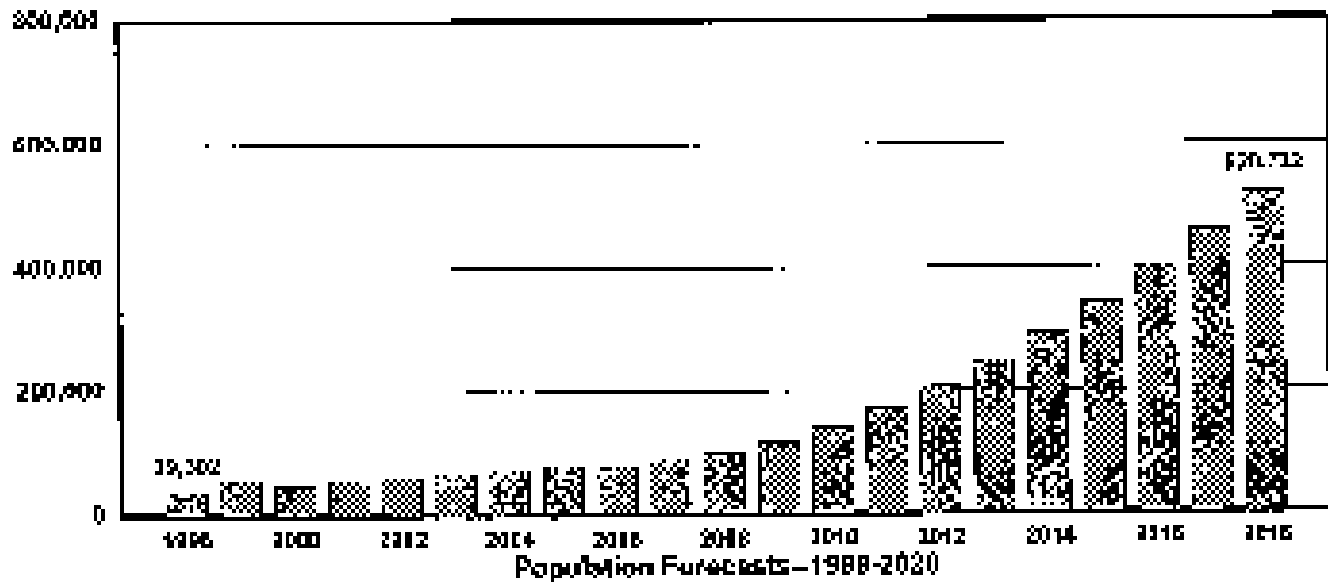


Source: Nevada State Comptroller, Nevada State and Local Planning Institute forecasts.

Nevada Population Forecast Variances

State of Nevada Population Forecast Variances

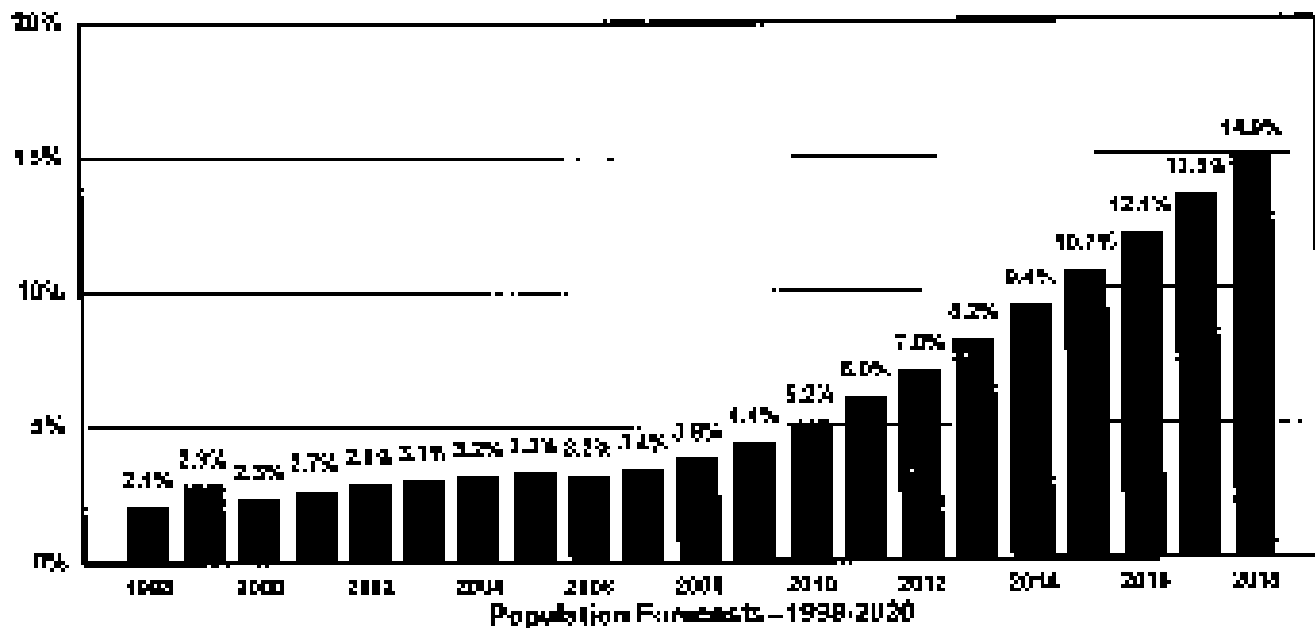
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer Nevada Division of Water Planning and Forecasting

State of Nevada Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer Nevada Division of Water Planning and Forecasting

Carson City Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Per Annum)

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Year	December Population and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Population and MWRP Method Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	7,198	-	-	2.62%	6,138	-	-	2.51%
1951	8,300	102	2.43%	2.62%	6,200	62	2.43%	2.60%
1952	8,500	200	4.89%	2.63%	6,270	70	1.63%	2.59%
1953	8,500	0	0.00%	2.64%	6,300	0	0.00%	2.61%
1954	8,600	100	1.72%	2.65%	6,300	0	0.00%	2.57%
1955	8,800	200	4.15%	2.65%	6,300	0	0.00%	2.68%
1956	8,900	100	2.08%	2.64%	6,300	0	0.00%	2.69%
1957	9,200	300	4.17%	2.68%	6,300	0	0.00%	2.68%
1958	9,300	100	1.95%	2.69%	6,300	0	0.00%	2.69%
1959	9,400	100	1.48%	2.69%	6,300	0	0.00%	2.66%
1960	9,600	200	2.65%	2.70%	6,300	0	0.00%	2.69%
1961	9,816	216	2.17%	2.70%	6,600	300	2.17%	2.67%
1962	9,920	104	4.77%	2.69%	6,620	20	4.77%	2.66%
1963	9,910	90	6.29%	2.69%	6,900	280	3.29%	2.64%
1964	9,767	857	9.62%	2.71%	6,900	857	9.62%	2.64%
1965	11,273	1,511	5.47%	2.69%	11,273	1,511	15.47%	2.62%
1966	12,716	1,443	9.60%	2.68%	12,351	1,082	8.80%	2.66%
1967	12,854	138	5.85%	2.68%	12,351	473	2.85%	2.65%
1968	13,528	674	5.38%	2.68%	13,325	974	6.33%	2.65%
1969	14,341	813	11.87%	2.68%	13,441	1,115	11.97%	2.65%
1970	16,251	1,910	6.91%	2.69%	16,154	910	6.01%	2.64%
1971	18,400	2,149	14.81%	2.74%	18,400	2,246	14.61%	2.64%
1972	20,300	1,900	9.40%	2.69%	20,200	1,800	8.96%	2.68%
1973	22,300	2,000	11.00%	2.69%	22,000	2,300	11.00%	2.66%
1974	23,800	1,500	7.21%	2.69%	23,000	1,600	7.21%	2.69%
1975	24,900	1,100	4.10%	2.69%	23,000	1,700	7.14%	2.68%
1976	26,100	1,200	2.32%	2.69%	26,000	600	2.32%	2.64%
1977	27,500	1,400	4.62%	2.68%	27,000	1,000	4.60%	2.63%
1978	30,000	2,500	9.89%	2.72%	30,000	2,700	9.79%	2.67%
1979	31,800	1,800	6.00%	2.76%	31,800	1,800	6.00%	2.66%
1980	32,022	222	0.70%	2.76%	32,022	222	0.70%	2.66%
1981	33,500	1,478	4.99%	2.76%	33,250	1,268	3.86%	2.69%
1982	34,000	500	2.51%	2.76%	34,000	750	2.14%	2.69%
1983	34,810	810	1.78%	2.76%	34,670	660	1.98%	2.68%
1984	34,950	140	0.98%	2.76%	34,950	280	0.99%	2.79%
1985	35,500	550	2.00%	2.76%	35,650	700	2.00%	2.75%
1986	36,340	840	1.54%	2.76%	36,300	660	1.94%	2.68%
1987	36,900	560	1.99%	2.76%	36,900	600	1.75%	2.67%
1988	38,380	1,480	3.40%	2.79%	38,000	1,200	3.29%	2.69%
1989	39,000	620	4.41%	2.84%	39,970	1,600	4.41%	2.69%
1990	40,900	1,900	2.15%	2.81%	40,350	950	2.45%	2.71%
1991	42,120	1,220	2.44%	2.87%	41,100	180	0.44%	2.72%
1992	42,140	1,020	2.44%	2.87%	42,140	1,040	2.46%	2.73%
1993	42,750	610	2.13%	2.88%	43,460	1,310	3.17%	2.73%
1994	44,380	1,630	2.59%	2.90%	44,540	1,160	2.58%	2.69%
1995	46,770	2,390	4.91%	2.96%	46,770	2,230	4.91%	2.69%
1996	48,400	1,630	4.47%	2.96%	48,500	2,000	4.17%	2.69%
1997	50,410	1,910	3.15%	2.89%	50,410	1,910	3.17%	2.82%
1998	50,970	560	1.11%	2.72%	51,251	1,281	2.50%	2.82%
1999	51,530	560	1.02%	2.65%	52,117	1,048	2.00%	2.79%

Carson City Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) July 1st (Persons)

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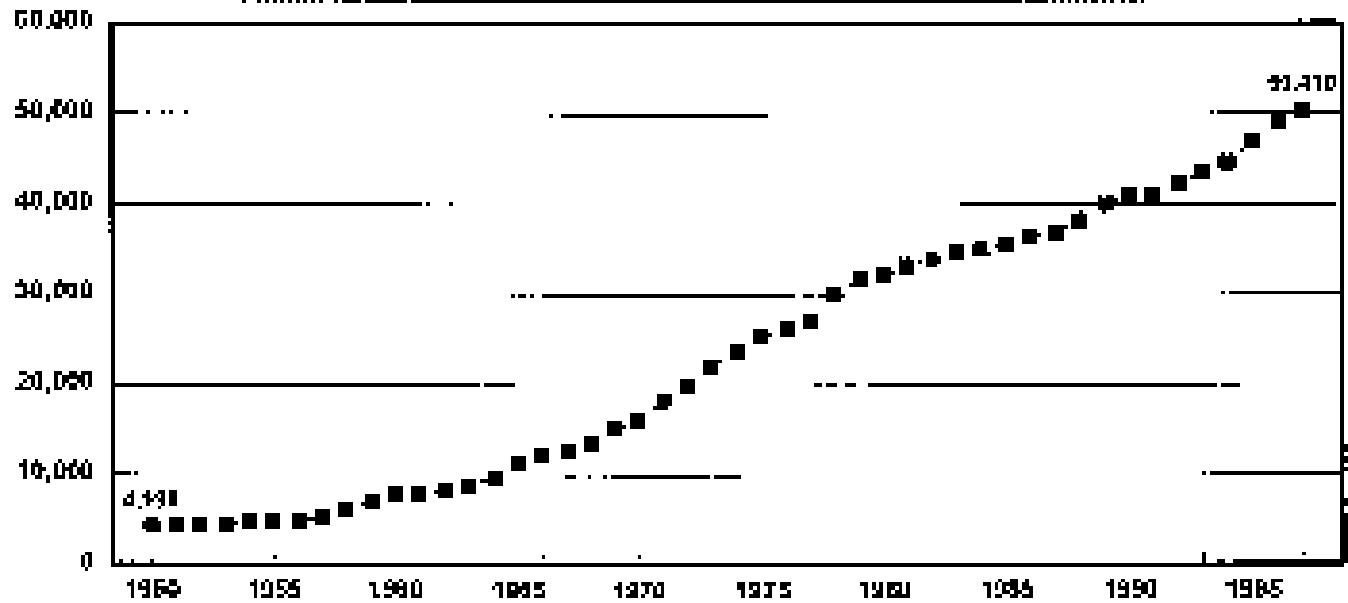
Year	Demographer Estimates and Forecasts	Change in Population (Persons)	Percent Change	Share of Total State Population	Lowest and Highest Modified Forecasts	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	53,150	1,300	2.50%	2.50%	54,445	1,298	2.50%	2.74%
2001	53,690	540	1.01%	2.50%	55,732	1,307	2.40%	2.70%
2002	54,020	330	0.61%	2.45%	57,031	1,282	2.30%	2.65%
2003	54,260	240	0.44%	2.44%	58,280	1,255	2.30%	2.64%
2004	54,610	350	0.64%	2.32%	59,531	1,254	2.30%	2.60%
2005	54,740	130	0.24%	2.30%	60,730	1,130	2.00%	2.59%
2006	54,880	140	0.26%	2.19%	61,834	1,153	1.90%	2.57%
2007	54,970	130	0.24%	2.14%	62,940	1,113	1.90%	2.55%
2008	54,970	390	0.65%	2.09%	64,040	1,070	1.70%	2.53%
2009	55,320	350	0.63%	2.02%	65,085	1,025	1.80%	2.52%
2010	55,970	650	1.17%	2.01%	66,071	874	1.50%	2.50%
2011	56,800	830	1.47%	1.98%	66,905	821	1.40%	2.49%
2012	57,510	710	1.25%	1.95%	67,735	821	1.20%	2.48%
2013	58,240	730	1.27%	1.92%	68,560	814	1.20%	2.46%
2014	58,980	740	1.26%	1.89%	69,405	751	1.10%	2.45%
2015	59,750	770	1.31%	1.86%	70,240	804	1.05%	2.44%
2016	60,140	390	0.65%	1.82%	70,730	581	0.80%	2.43%
2017	60,650	510	0.85%	1.78%	71,200	566	0.80%	2.42%
2018	61,190	540	0.90%	1.75%	71,640	450	0.60%	2.41%
2019	-	-	-	-	72,120	411	0.50%	2.40%
2020	-	-	-	-	72,550	361	0.50%	2.38%
Demographic Analysis		1950-1997	1.43%					
Average Annual Rate		1950-1997	0.66%					
Change by Specific		95%-1970	7.19%					
Time Period (years)		1970-1980	7.15%					
		1980-1990	2.49%					
		1990-1997	0.61%					
Forecast Periods		1998-2008	0.93%	State Demographer		1.70%	ADWP Modified Forecasts	
		1998-2008	0.70%			2.10%		
		2008-2018	1.94%			1.20%		

Sources: Nevada Office of the State Demographer (various dates from April 13, 1998); Nevada Division of Water Planning (Clark County population forecasts); Clark County, Bureau of Geographic Information Systems; Washoe County, Office of Economic and Community Development; and Nevada County Department of Community Development.

County Population Analysis

Carson City Population Estimates & Forecasts

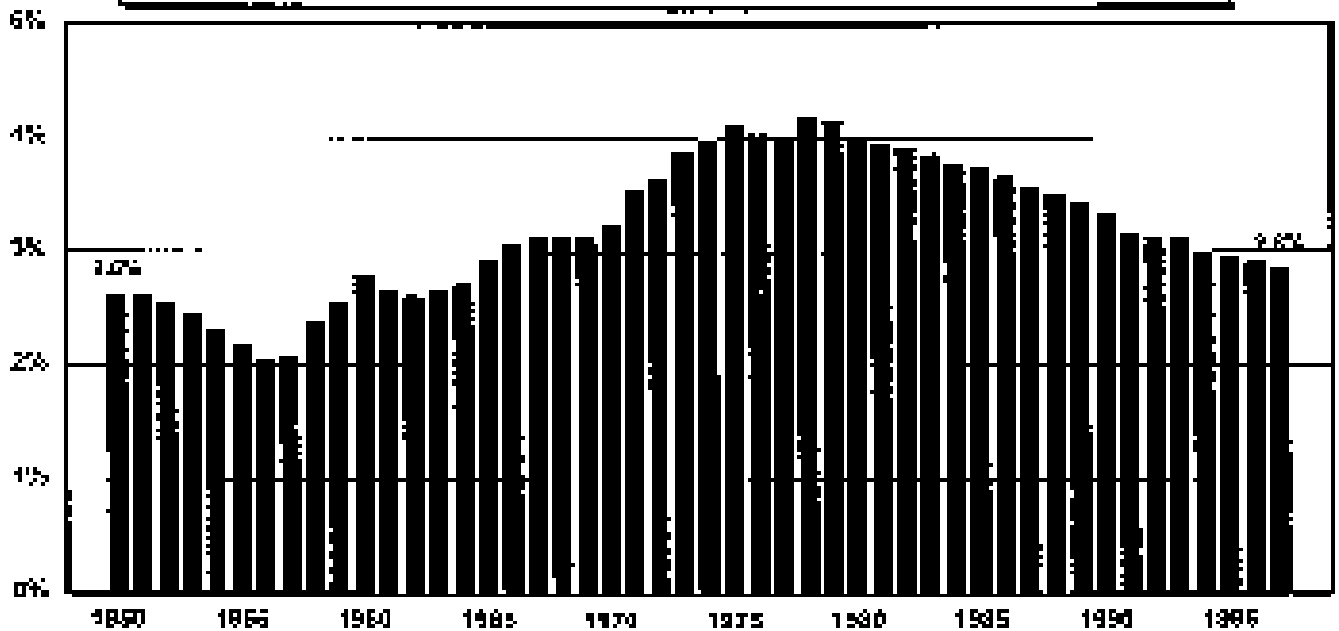
Population Estimates as of July 1 (Persons)



Source: Nevada State Demography

Carson City Population Shares

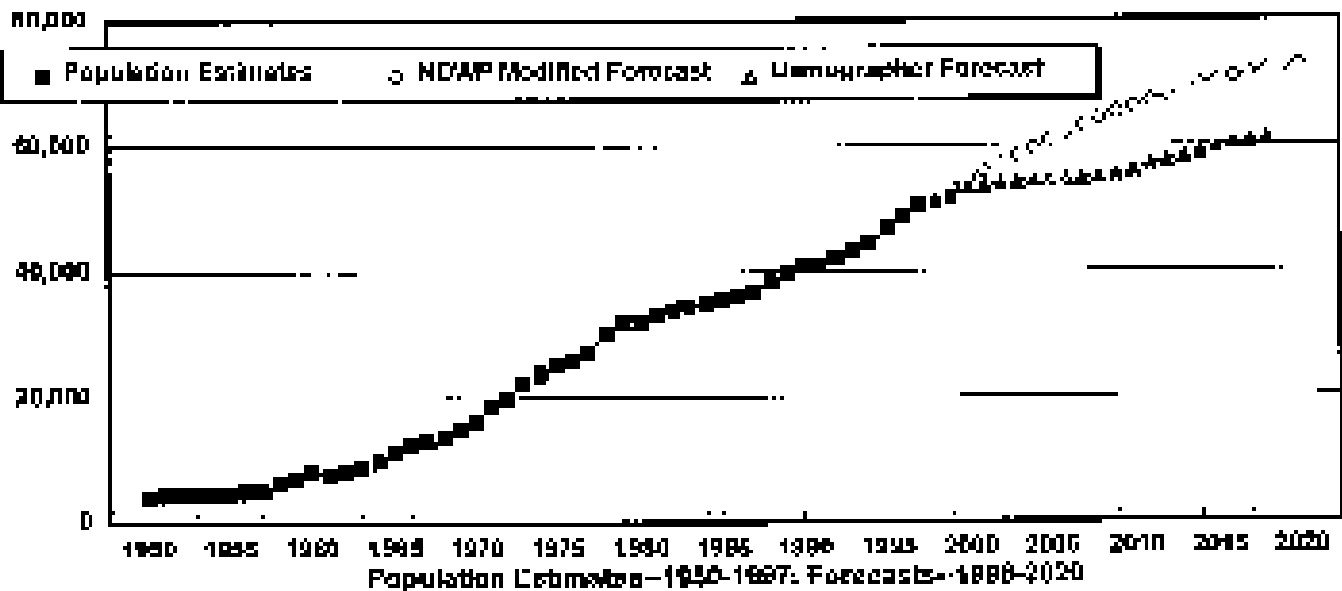
County Share of Total State Population (Percent)



Source: Nevada State Demography

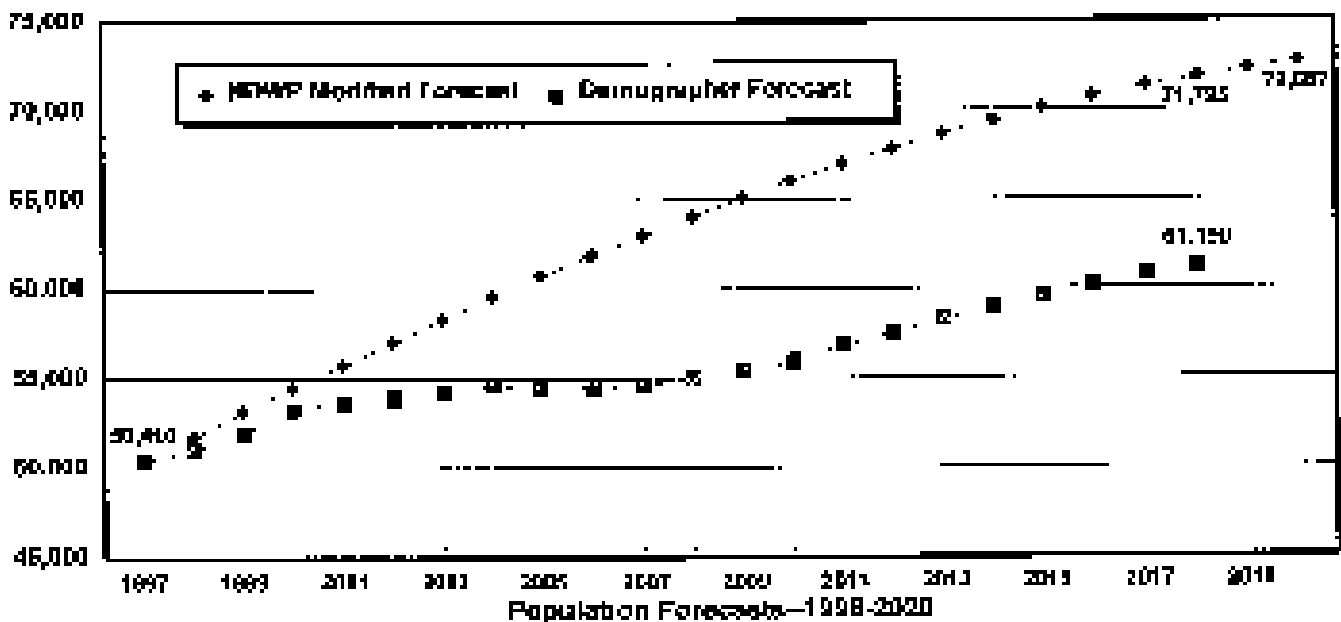
County Population Analysis and Forecasts

Carson City Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada State Office of Public Health and Family Services

Carson City Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

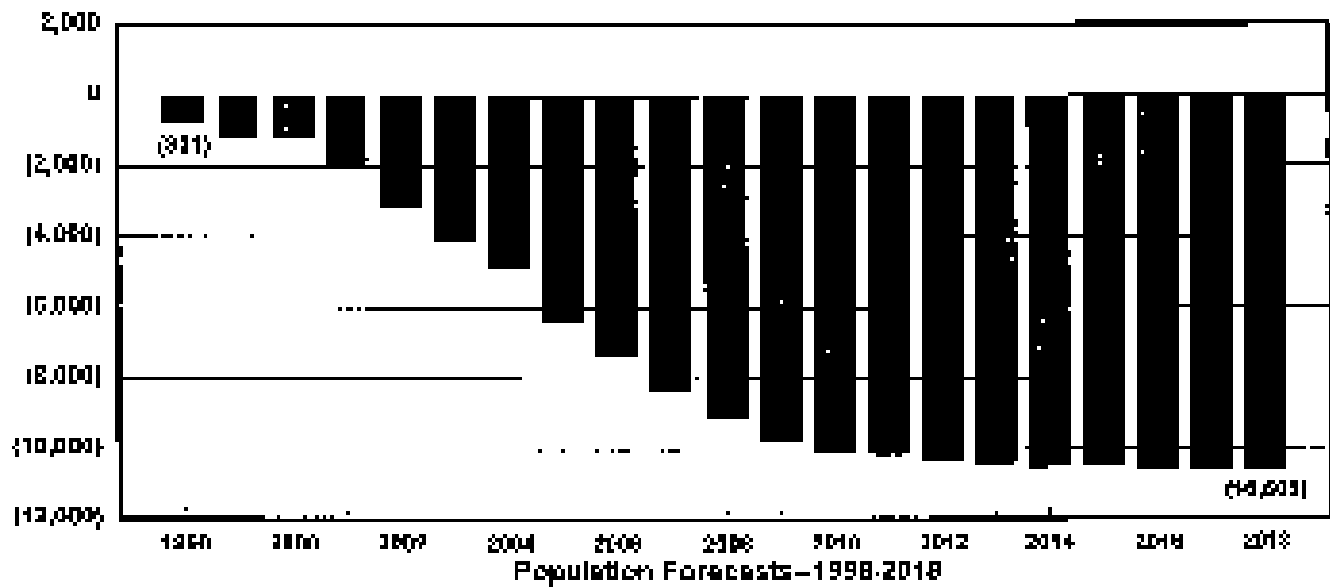


Source: Nevada State Demographer, Nevada Office of Public Health and Family Services

County Population Forecast Variances

Carson City Population Forecast Variances

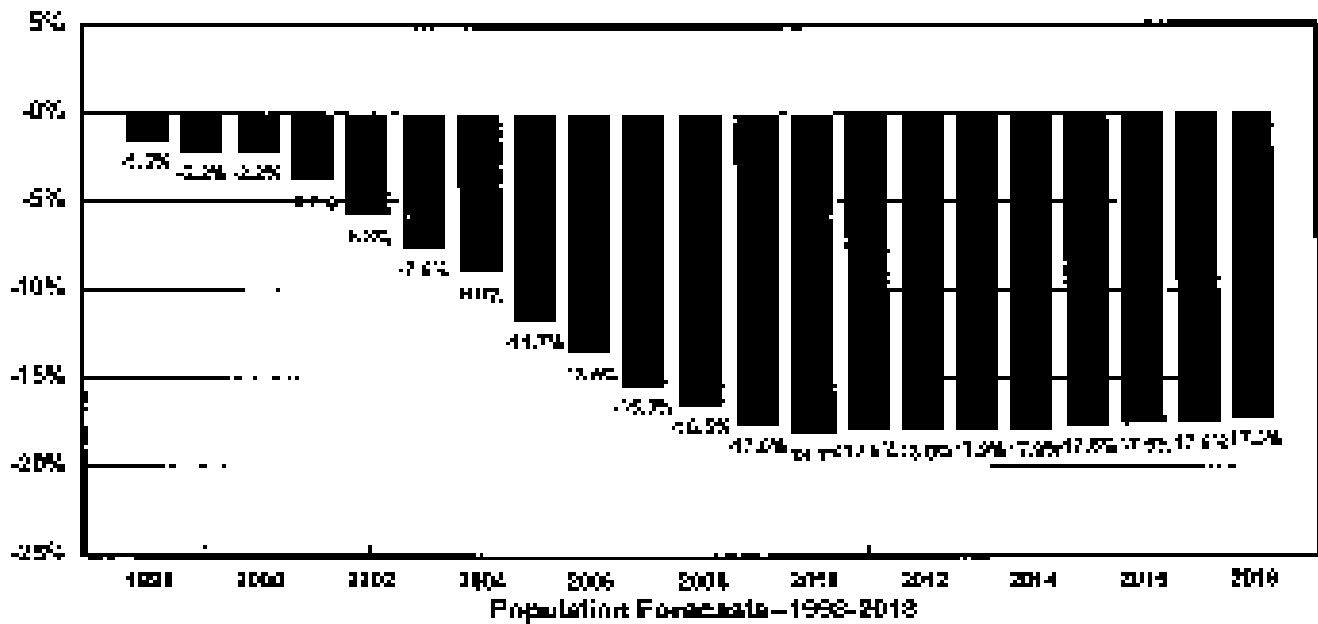
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Bureau of Economic Analysis, and Nevada State Planning Council

Carson City Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Bureau of Economic Analysis, and Nevada State Planning Council

Churchill County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)--July 1st (Personal)

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Year	December Estimate and Forecasts	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimate and NDRP Modified Forecasts	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population
1950	6,185	-	-	3.44%	6,184	-	-	3.44%
1951	6,307	122	1.97%	3.31%	6,306	122	1.97%	3.31%
1952	6,205	-102	-1.62%	3.28%	6,306	0	0.00%	3.28%
1953	6,400	195	3.15%	3.47%	6,400	100	1.59%	3.47%
1954	6,500	100	1.56%	3.53%	6,500	100	1.56%	3.53%
1955	6,590	400	6.15%	3.58%	6,500	-400	-6.15%	3.58%
1956	7,100	510	7.74%	3.96%	7,100	200	2.90%	3.96%
1957	7,100	0	0.00%	3.96%	7,100	0	0.00%	3.96%
1958	7,250	150	2.11%	3.73%	7,200	-100	-1.39%	3.73%
1959	7,250	0	0.00%	3.73%	7,200	-50	-0.69%	3.73%
1960	7,500	250	3.45%	3.92%	7,500	1,000	13.89%	3.92%
1961	8,216	716	9.55%	4.28%	8,216	311	3.75%	4.28%
1962	8,040	(176)	-2.14%	4.24%	8,040	(25)	-0.31%	4.24%
1963	8,603	563	7.00%	4.52%	8,603	132	1.63%	4.52%
1964	8,744	141	1.63%	4.58%	8,744	36	0.41%	4.58%
1965	8,884	140	1.59%	4.64%	8,884	210	2.36%	4.64%
1966	9,307	423	4.76%	4.92%	9,307	225	2.53%	4.92%
1967	9,468	161	1.72%	4.98%	9,368	-100	-1.06%	4.98%
1968	9,516	48	0.51%	4.99%	9,516	(10)	-0.11%	4.99%
1969	10,340	824	8.66%	5.36%	10,340	806	8.48%	5.36%
1970	10,650	310	2.99%	5.53%	10,650	298	2.79%	5.53%
1971	11,290	640	6.01%	5.83%	11,290	640	5.99%	5.83%
1972	11,600	400	3.54%	5.97%	11,600	400	3.42%	5.97%
1973	11,900	300	2.58%	6.09%	11,900	300	2.59%	6.09%
1974	11,900	0	0.00%	6.09%	11,900	0	0.00%	6.09%
1975	12,000	100	0.84%	6.14%	12,000	100	0.84%	6.14%
1976	12,000	0	0.00%	6.14%	12,000	0	0.00%	6.14%
1977	12,100	100	0.83%	6.18%	12,100	100	0.83%	6.18%
1978	12,200	100	0.83%	6.22%	12,200	100	0.83%	6.22%
1979	12,600	400	3.28%	6.38%	12,600	400	3.28%	6.38%
1980	13,907	1,307	10.37%	6.74%	13,907	1,307	10.37%	6.74%
1981	14,390	483	3.47%	6.90%	14,390	483	3.47%	6.90%
1982	14,480	90	0.62%	6.92%	14,480	90	0.62%	6.92%
1983	14,670	190	1.31%	6.97%	14,670	190	1.31%	6.97%
1984	14,820	150	1.02%	7.02%	14,820	150	1.02%	7.02%
1985	15,120	300	2.02%	7.10%	15,120	300	2.02%	7.10%
1986	15,300	180	1.19%	7.15%	15,300	180	1.19%	7.15%
1987	15,710	410	2.68%	7.24%	15,710	410	2.68%	7.24%
1988	17,300	1,590	10.12%	7.62%	17,300	1,590	10.12%	7.62%
1989	17,590	290	1.67%	7.69%	17,590	290	1.67%	7.69%
1990	18,100	510	2.90%	7.80%	18,100	510	2.90%	7.80%
1991	18,330	230	1.27%	7.84%	18,330	230	1.27%	7.84%
1992	19,210	880	4.80%	8.00%	19,210	880	4.80%	8.00%
1993	19,870	660	3.43%	8.12%	19,870	660	3.43%	8.12%
1994	20,870	1,000	5.03%	8.24%	20,870	1,000	5.03%	8.24%
1995	21,640	770	3.69%	8.33%	21,640	770	3.69%	8.33%
1996	21,950	310	1.43%	8.38%	21,950	310	1.43%	8.38%
1997	21,820	-130	-0.59%	8.36%	21,820	-130	-0.59%	8.36%
1998	23,020	1,200	5.49%	8.53%	21,859	-1,161	-5.31%	8.53%
1999	23,000	-20	-0.09%	8.53%	23,000	0	0.00%	8.53%

Churchill County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Percent)

Page 2 of 2

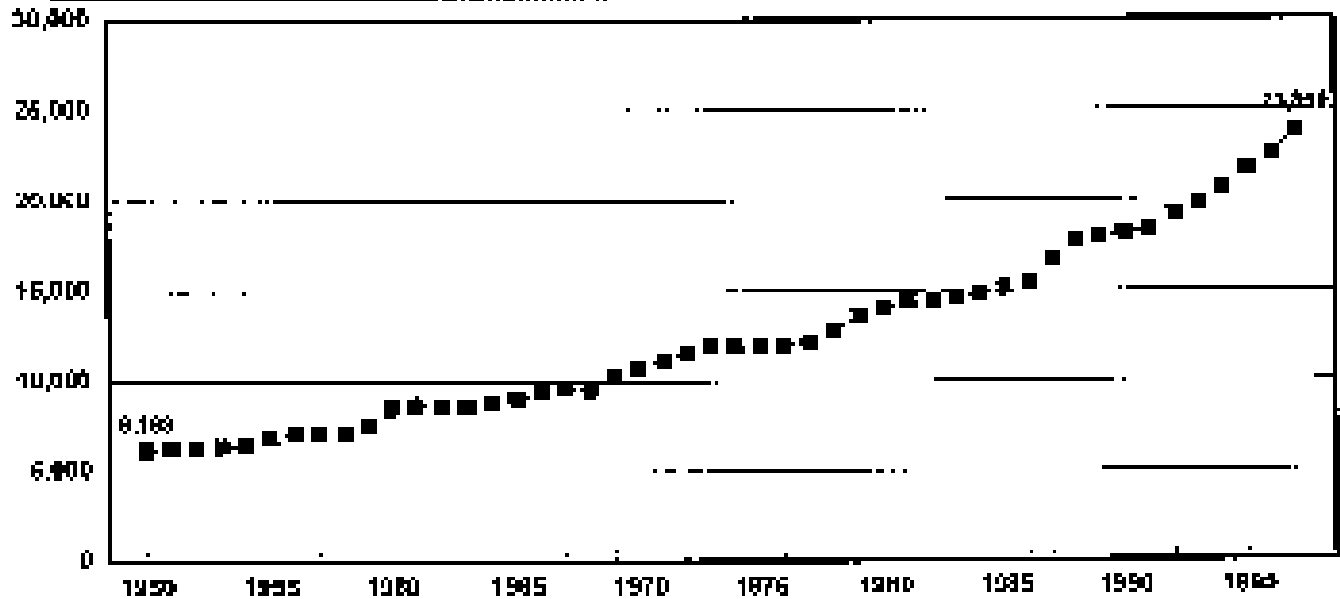
Year	Demographic Estimate and Forecast	Change in Population (Percent)	Percent Change	Share of Local State Population	Estimated NDVP Modified Forecasts	Change in Population (Percent)	Percent Change	Share of Total State Population
2000	27,010	900	3.36%	1.33%	26,010	720	2.85%	1.31%
2001	27,030	770	2.85%	1.33%	26,030	618	2.38%	1.30%
2002	28,620	840	3.02%	1.33%	27,570	715	2.64%	1.30%
2003	29,130	510	1.78%	1.33%	28,154	511	2.09%	1.31%
2004	29,910	780	2.68%	1.33%	28,850	505	2.01%	1.29%
2005	30,470	560	1.87%	1.33%	29,528	489	2.02%	1.29%
2006	31,010	770	2.53%	1.33%	30,243	600	2.04%	1.29%
2007	31,530	900	2.89%	1.33%	30,919	681	2.24%	1.29%
2008	32,660	830	2.61%	1.34%	31,600	670	2.17%	1.29%
2009	33,580	920	3.1%	1.34%	32,356	677	2.08%	1.29%
2010	34,720	1,140	3.42%	1.35%	32,910	554	1.9%	1.29%
2011	35,740	1,020	3.02%	1.35%	33,529	620	1.91%	1.29%
2012	36,850	1,110	3.1%	1.35%	34,181	642	1.88%	1.29%
2013	37,930	1,080	3.02%	1.35%	34,745	594	1.74%	1.29%
2014	39,060	1,130	2.94%	1.35%	35,320	578	1.65%	1.29%
2015	40,170	1,120	2.89%	1.35%	35,904	548	1.5%	1.29%
2016	41,320	1,150	2.86%	1.35%	36,400	509	1.4%	1.29%
2017	42,490	1,170	2.78%	1.35%	36,910	510	1.40%	1.29%
2018	43,620	1,130	2.61%	1.35%	37,400	485	1.3%	1.29%
2019	--	--	--	--	37,862	460	1.21%	1.29%
2020	--	--	--	--	38,298	434	1.15%	1.29%
Growth Rate Analysis:	1950-1997		1.91%					
Average Annual Rate:	1950-1990		3.23%					
% Change by Decade:	1960-1970		3.37%					
Five Year Period (Percent):	1970-1980		2.71%					
	1980-1990		1.66%					
	1990-1997		4.03%					
Percent Period:	1998-2018		2.91%	State Demographic			3.16%	NDVP Modified Forecasts
	1998-2008		2.91%				2.99%	
	2009-2018		2.91%				1.94%	

Source: Nevada Official Economic Demographic projections—Effective April 15, 1998; Nevada Division of Water Planning (NDVP) County population projections and Clark County Department of Community and Planning programs; Washoe County population from Bureau of Economic Planning by the Washoe County Department of Community Development.

County Population Analysis

Churchill County Population Estimates & Forecasts

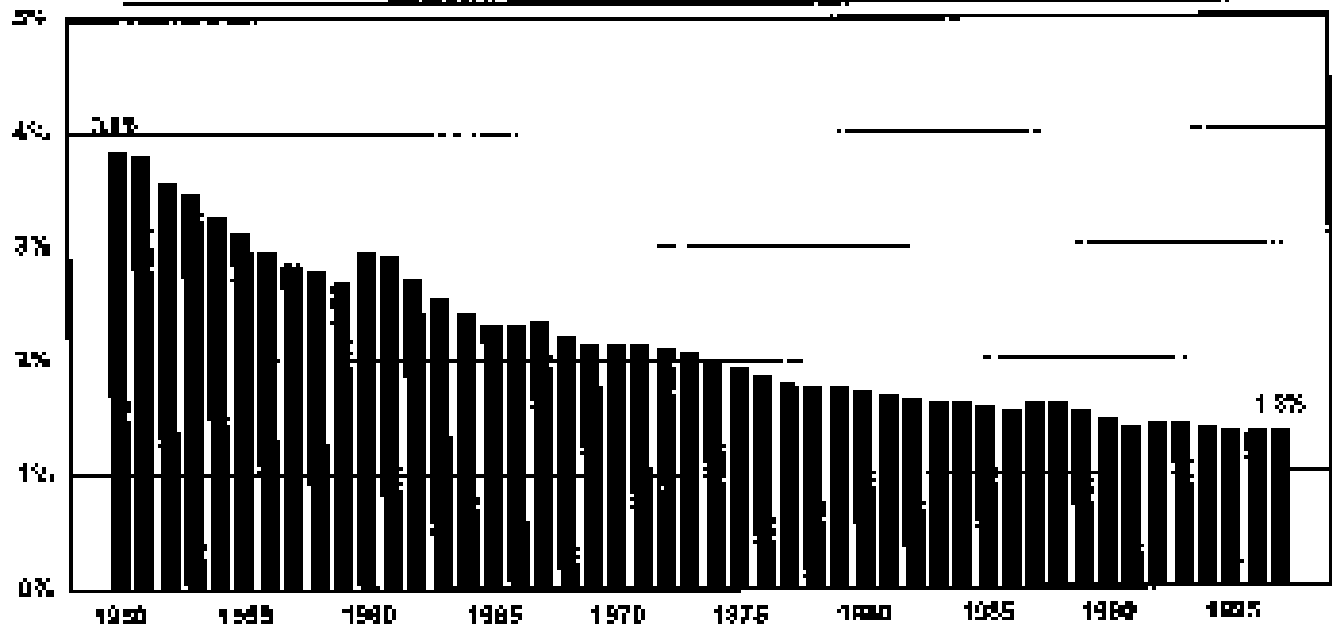
Population Estimates as of July 1 (Persons)



Source: Nevada State Department of Health

Churchill County Population Shares

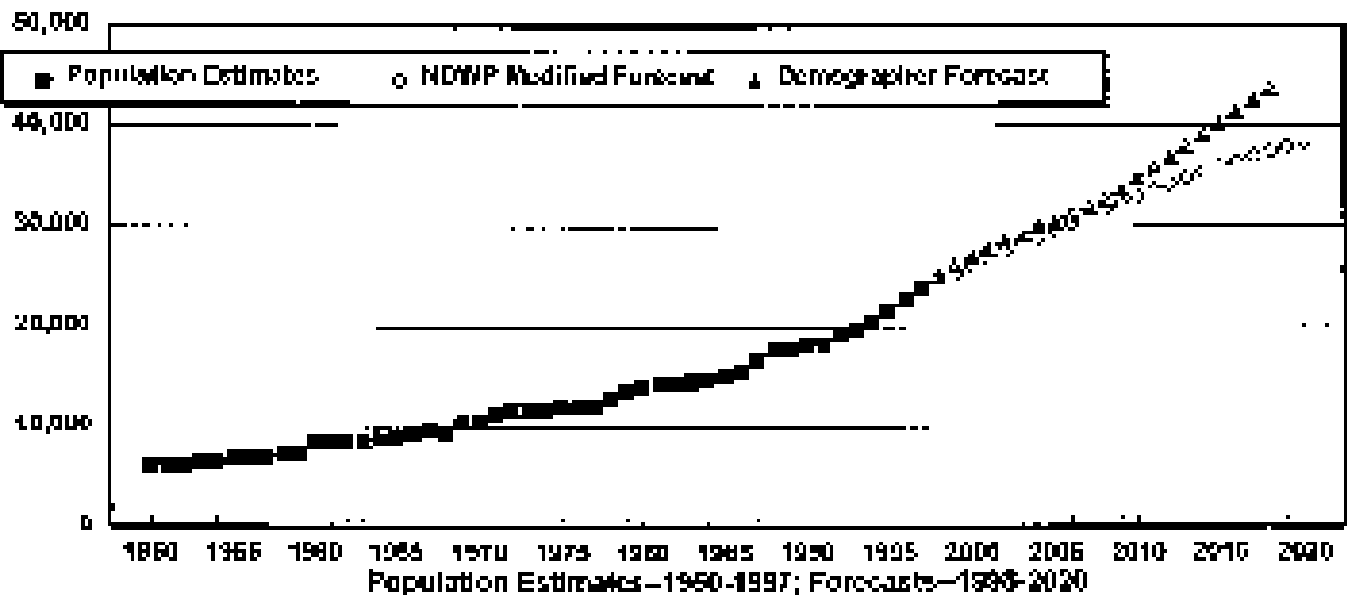
County Share of Total State Population (Percent)



Source: Nevada State Department of Health

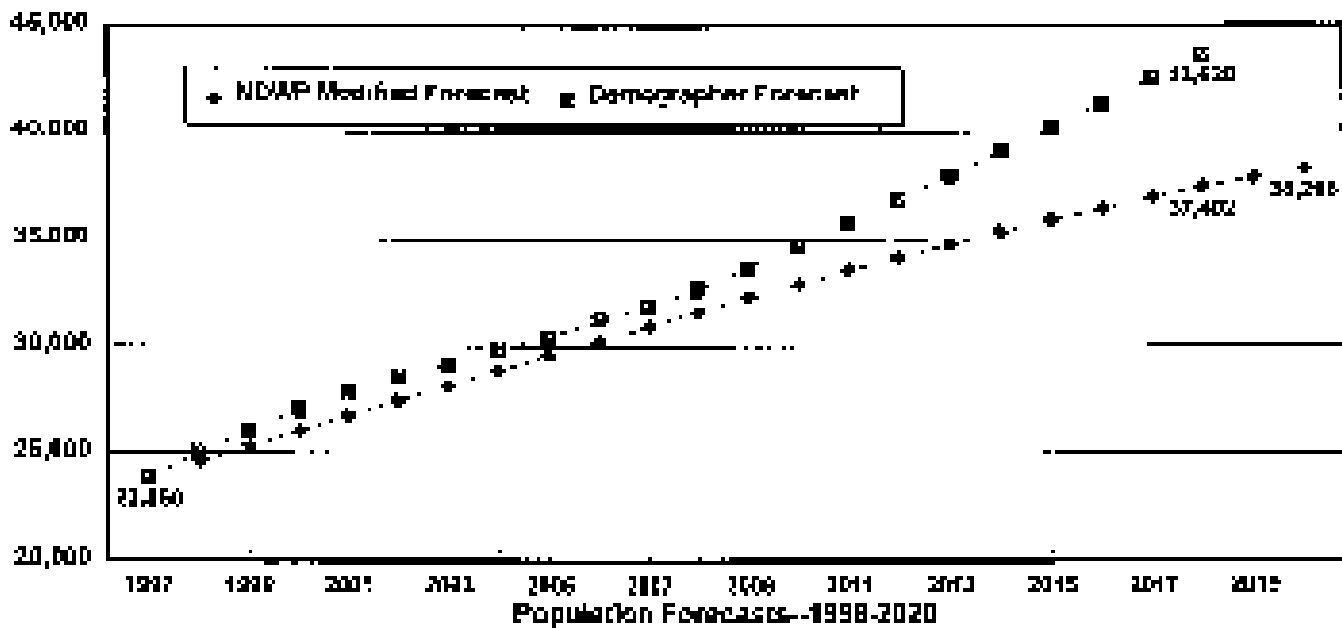
County Population Analysis and Forecasts

Churchill County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, County Census of Each Year; not for 1998.

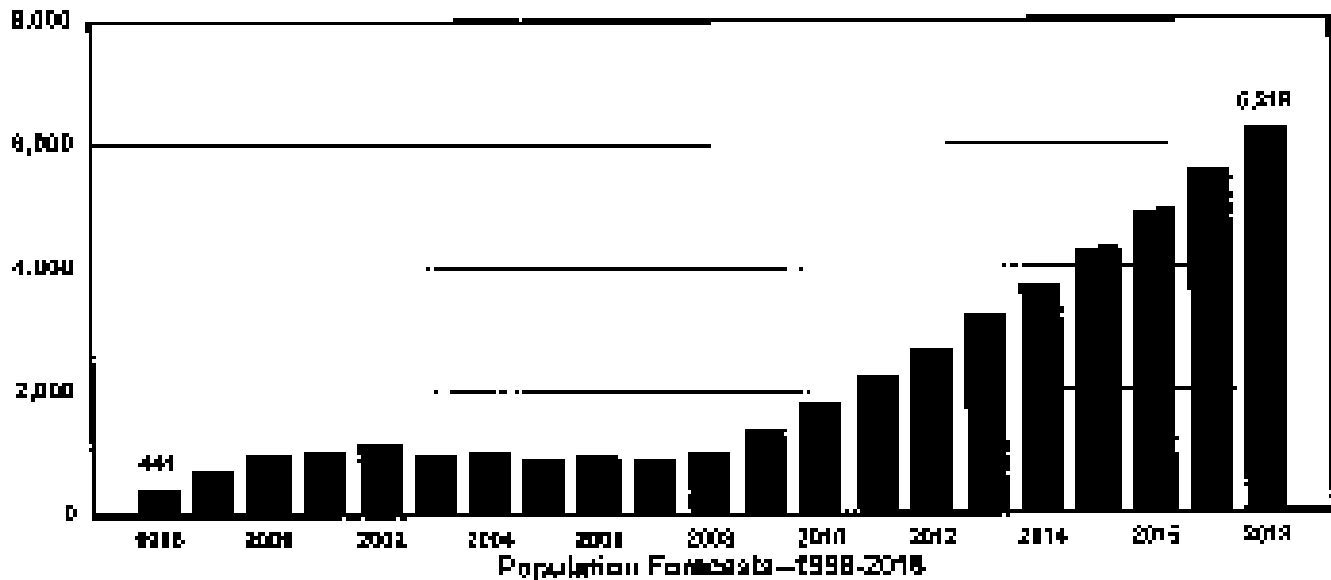
Churchill County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning modified forecast

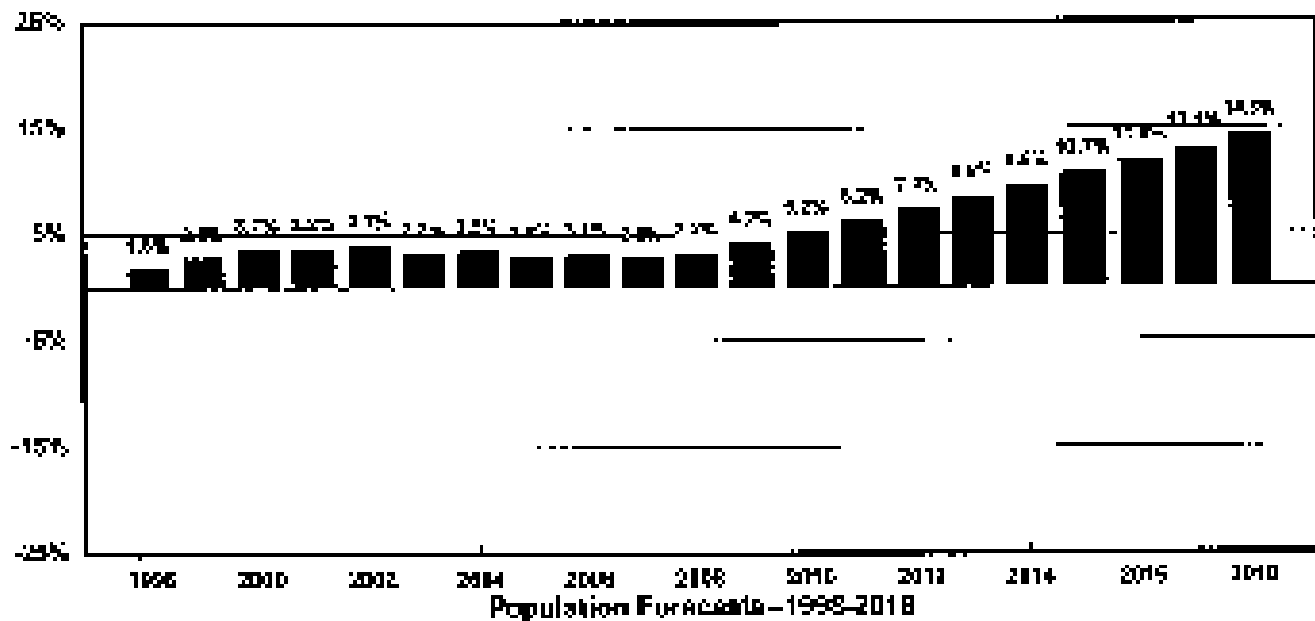
County Population Forecast Variances

Churchill County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning (modified)

Churchill County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer; Nevada Division of Water Planning (modified)

Clark County Population Estimates & Forecasts

Population Estimates (1941-1977) and Forecasts (1998-2020)—July 1st (Persons)

Page 1 of 2

Year	Demographic Estimates and Forecasts	Year-Year		Share of Total NUTM Modified Population	Year-Year Change in Population Percent	Share of Total Year Population
		Change in Population (Percent)	Percent Change			
1940	48,811	-	-	10.00%	-	35.25%
1950	50,900	2,089	4.28%	30.77%	2,089	35.77%
1955	57,200	6,300	12.37%	32.55%	6,300	36.6%
1958	61,700	4,500	7.86%	33.07%	4,500	37.32%
1961	71,400	9,700	15.88%	33.96%	9,700	38.69%
1965	82,000	10,600	16.27%	35.55%	10,600	39.67%
1968	96,400	14,400	15.28%	36.35%	14,400	40.15%
1970	101,800	5,400	5.62%	40.80%	5,400	40.86%
1975	107,400	5,600	5.46%	41.44%	5,600	41.14%
1979	112,800	5,400	5.05%	42.19%	5,400	42.09%
1980	128,724	15,924	14.11%	44.73%	15,924	44.1%
1981	138,000	9,276	7.21%	45.61%	9,276	45.03%
1982	149,000	10,976	7.96%	47.22%	10,976	47.82%
1983	169,833	20,833	13.98%	50.40%	20,833	50.71%
1984	183,880	14,047	8.29%	52.57%	14,047	52.57%
1985	191,961	8,081	4.40%	53.26%	8,081	52.28%
1986	212,623	20,662	10.77%	57.67%	20,662	57.67%
1987	218,923	6,300	2.97%	58.42%	6,300	58.42%
1988	223,804	4,881	2.23%	59.49%	4,881	59.49%
1989	267,720	43,916	19.63%	59.74%	43,916	59.74%
1990	277,230	9,510	3.55%	59.81%	9,510	59.81%
1991	283,000	5,770	2.08%	59.85%	5,770	59.85%
1992	307,400	24,400	8.61%	59.82%	24,400	59.82%
1993	319,400	12,000	3.91%	59.81%	12,000	59.81%
1994	336,500	17,100	5.34%	59.46%	17,100	59.46%
1995	351,000	14,500	4.32%	59.60%	14,500	59.60%
1996	369,500	18,500	5.25%	59.73%	18,500	59.73%
1997	388,500	19,000	5.15%	59.81%	19,000	59.81%
1998	411,400	22,900	5.92%	59.46%	22,900	59.46%
1999	441,400	30,000	6.90%	59.88%	30,000	59.88%
1998	453,387	11,987	2.71%	59.85%	11,987	59.85%
1997	491,529	38,142	7.76%	59.10%	38,142	59.10%
1996	507,510	15,980	3.13%	59.57%	15,980	59.57%
1995	523,050	15,540	2.97%	59.52%	15,540	59.52%
1994	539,500	16,450	3.05%	59.43%	16,450	59.43%
1993	562,250	22,750	4.03%	59.61%	22,750	59.61%
1992	587,560	25,310	4.31%	59.15%	25,310	59.15%
1991	616,600	29,040	4.71%	59.55%	29,040	59.55%
1990	667,690	51,090	7.65%	59.12%	51,090	59.12%
1989	708,750	41,060	5.77%	60.02%	41,060	60.02%
1988	739,260	30,510	4.11%	62.71%	30,510	62.71%
1987	820,840	81,580	9.92%	61.12%	81,580	61.12%
1986	855,390	34,550	4.03%	63.67%	34,550	63.67%
1985	898,030	42,640	4.75%	64.20%	42,640	64.20%
1984	931,680	33,650	3.61%	67.16%	33,650	67.16%
1983	1,006,290	74,610	7.47%	65.62%	74,610	65.62%
1982	1,113,940	107,650	9.65%	65.10%	107,650	65.10%
1981	1,192,000	78,060	6.55%	66.98%	78,060	66.98%
1980	1,265,590	73,590	5.82%	67.51%	73,590	67.51%
1990	1,337,400	71,810	5.67%	68.18%	71,810	68.18%

Clark County Population Estimates & Forecasts

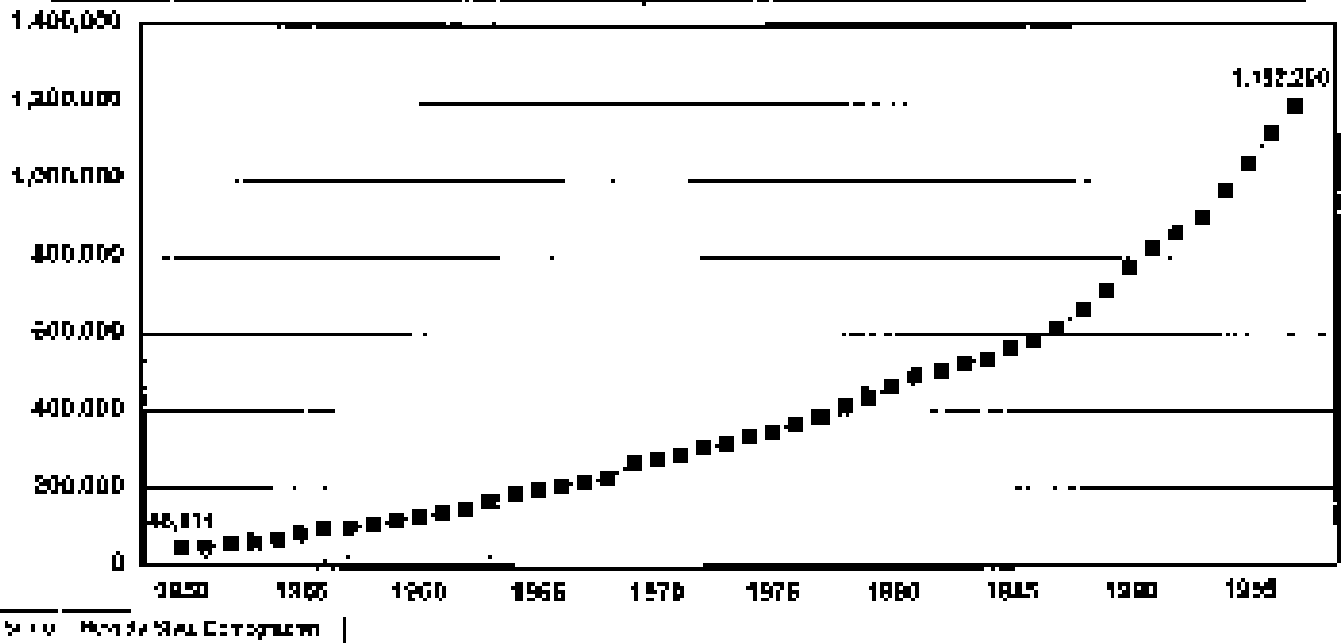
Population Estimates (1950-1997) and Forecasts (1998-2016) - July 1st (Persons)

Year	Demographic Estimates and Forecasts	4 Years to Population (Persons)	Percent Change	Share of Total State Population	Estimated and NTOT Modified Persons	Change in Population (Persons)	Percent Change from Previous	Share of Total State Population
2000	1,917,060	66,360	4.21%	68.92%	1,255,368	66,957	5.17%	68.24%
2001	1,950,090	72,030	5.19%	69.18%	1,417,152	61,784	4.90%	68.72%
2002	1,989,680	69,590	4.54%	69.55%	1,435,005	58,853	4.16%	69.12%
2003	1,998,760	66,630	4.36%	70.05%	1,522,100	56,802	3.91%	69.47%
2004	1,999,840	62,180	3.99%	70.44%	1,587,021	51,671	3.39%	69.92%
2005	1,999,630	65,770	3.57%	71.15%	1,600,544	55,423	3.37%	70.00%
2006	1,779,720	50,050	3.11%	71.55%	1,655,019	50,475	3.11%	70.37%
2007	1,345,930	64,200	3.51%	72.00%	1,742,357	49,508	2.90%	70.54%
2008	1,605,050	61,170	3.52%	72.46%	1,759,116	46,540	2.65%	70.72%
2009	1,966,930	61,880	3.25%	72.91%	1,855,010	45,901	2.58%	70.81%
2010	2,531,700	64,570	3.28%	73.91%	1,874,435	41,421	2.21%	70.95%
2011	2,687,000	66,910	3.26%	73.25%	1,870,369	35,937	2.08%	71.06%
2012	2,766,830	69,120	3.28%	73.53%	1,865,505	35,500	1.91%	71.17%
2013	2,839,910	73,380	3.37%	73.85%	1,861,388	34,080	1.83%	71.23%
2014	2,922,410	70,500	3.24%	74.05%	2,215,010	32,022	1.67%	71.28%
2015	2,989,240	76,920	3.32%	74.38%	2,945,220	30,715	1.36%	71.32%
2016	2,970,910	82,030	3.38%	74.69%	2,994,731	28,562	1.19%	71.35%
2017	2,957,700	87,260	3.33%	74.95%	2,762,041	27,310	1.05%	71.39%
2018	2,636,200	91,970	3.29%	75.30%	2,128,250	26,128	1.05%	71.42%
2019	-	-	-	-	2,153,544	25,271	1.19%	71.45%
2020	-	-	-	-	2,159,016	24,502	1.14%	71.49%
Growth Rate Analysis:		1990-1997	3.08%					
Average Annual Rates		1950-1960	10.18%					
1960-1970		1970-1980	3.97%					
1980-1990		1990-1997	3.22%					
		1998-2018	3.85%	State Demographic		2.98%	State Modified Persons	
		1998-2016	4.97%			3.70%		
		2000-2016	3.30%			1.83%		

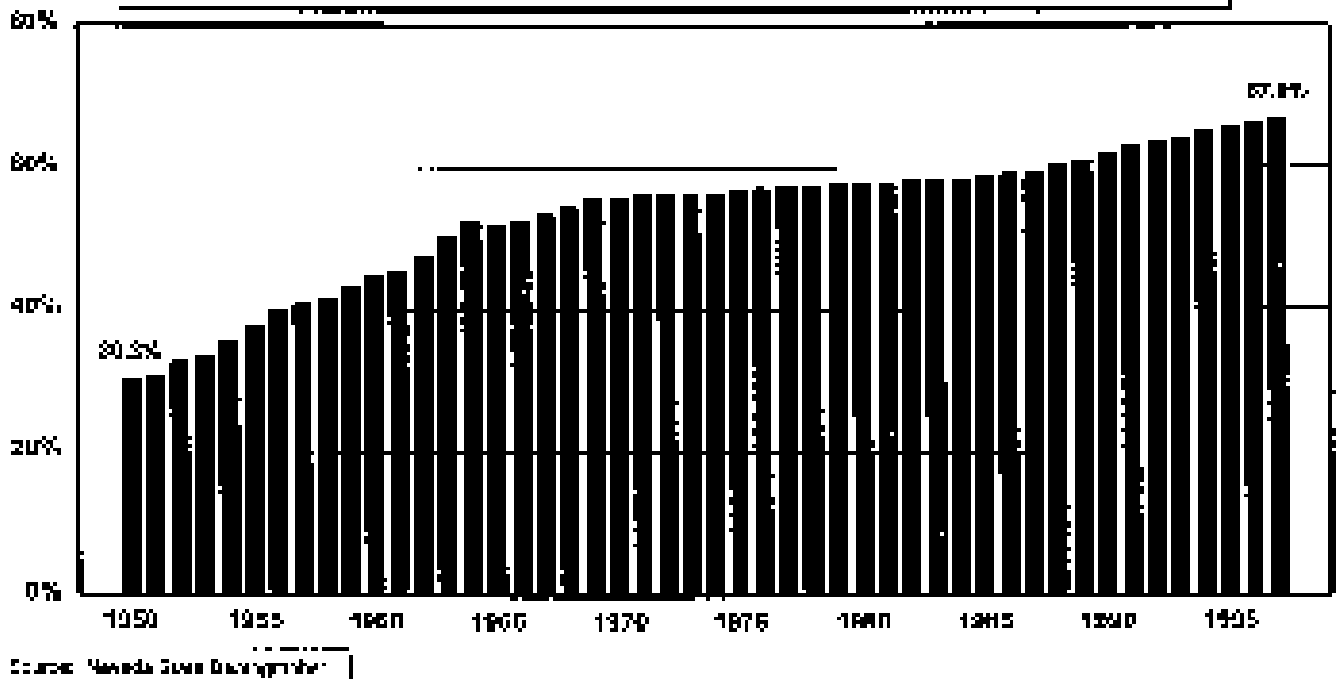
Sources: Nevada Division of the State Demographic Forecast effective April 1, 1998; Nevada Division of Water Planning; Census and Local population forecasts from the U.S. Census Department of Commerce, Planning Services for the Clark County Executive Office. All forecast information provided by the Clark County Department of Community Development.

County Population Analysis

Clark County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)

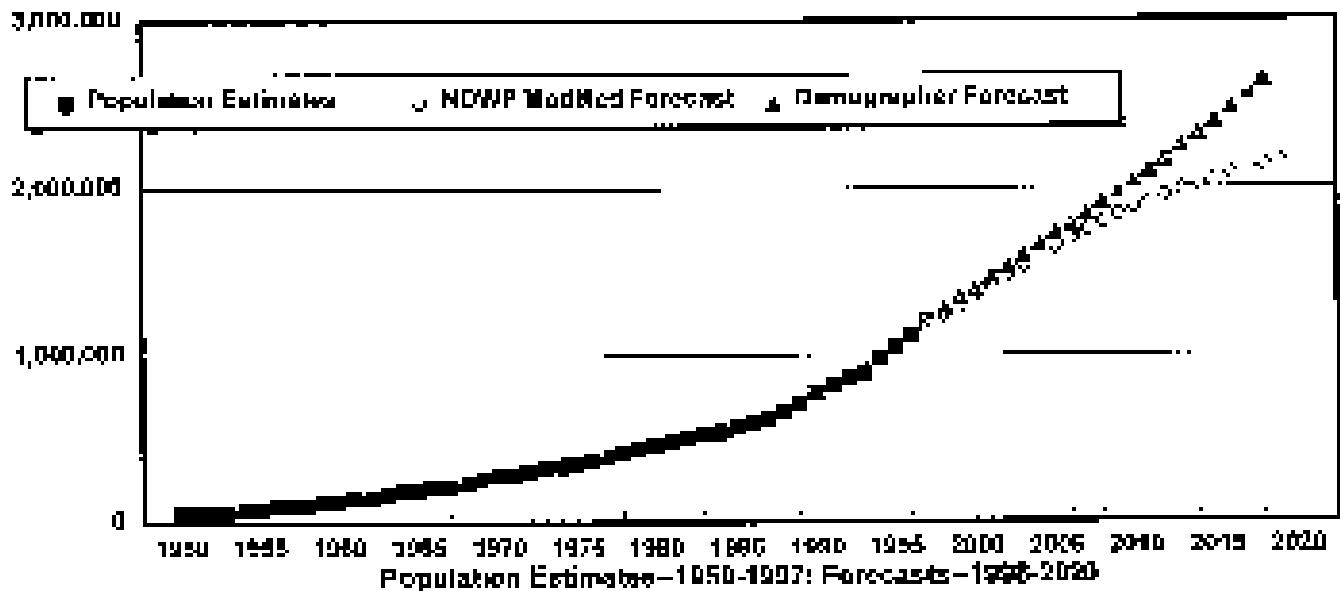


Clark County Population Shares County Share of Total State Population (Percent)



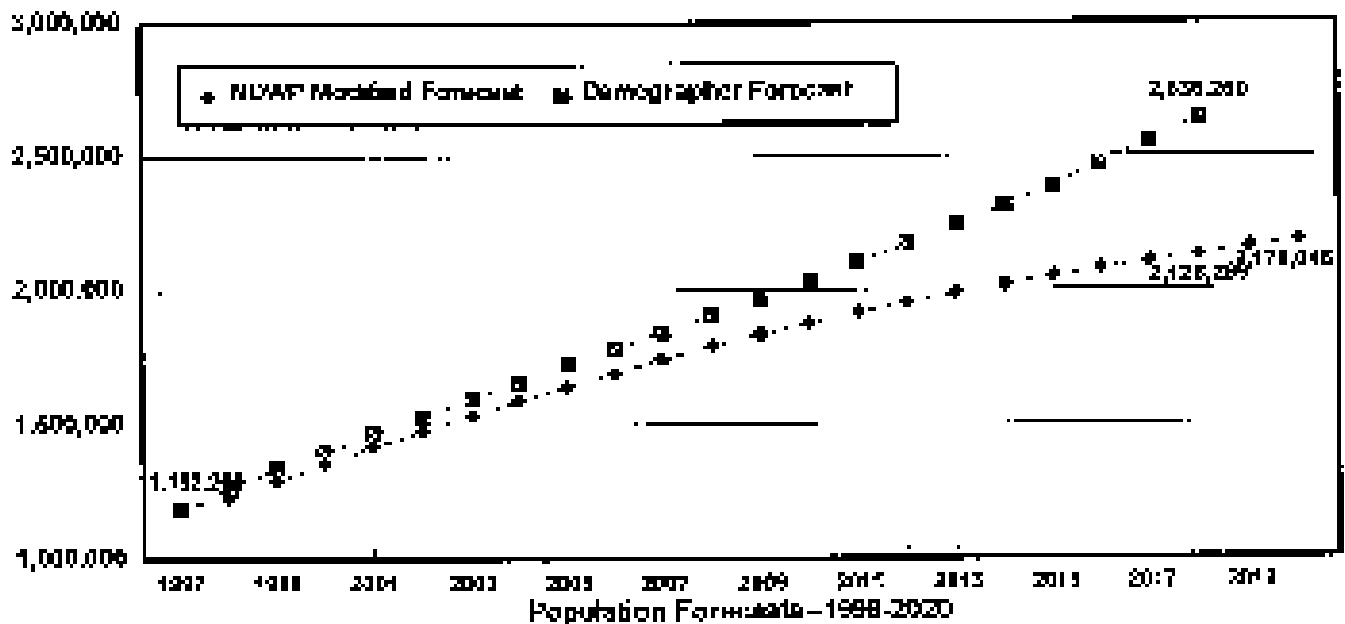
County Population Analysis and Forecasts

Clark County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Henry May, and Clark County modified forecast.

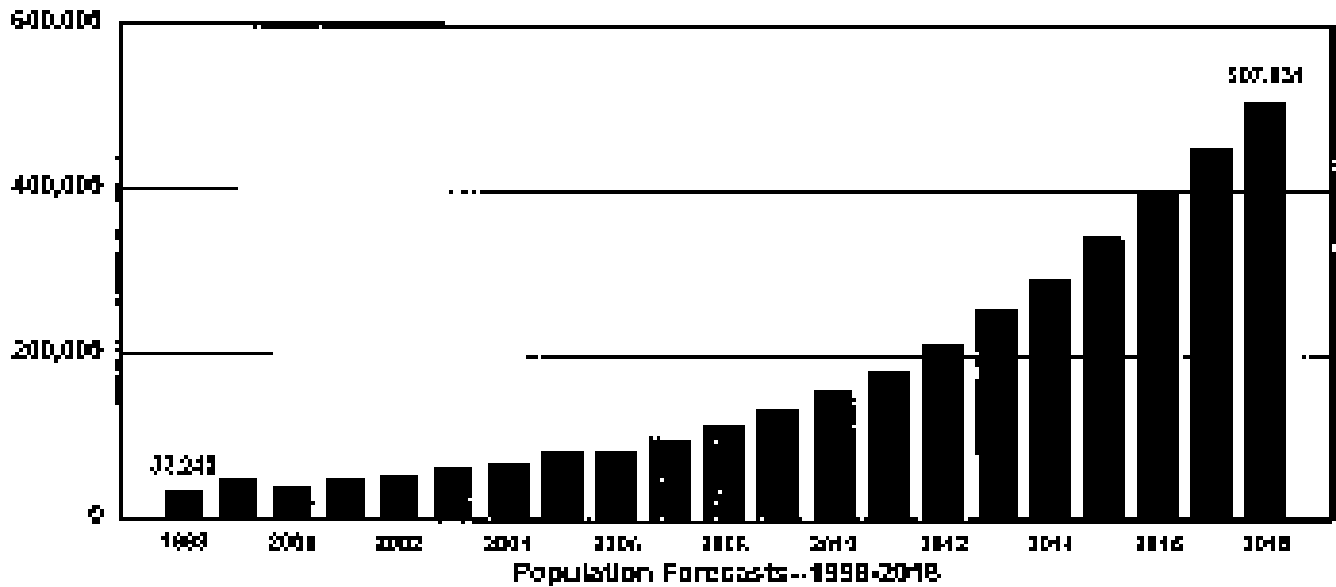
Clark County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Nevada State Demographer, Henry May, and Clark County modified forecast.

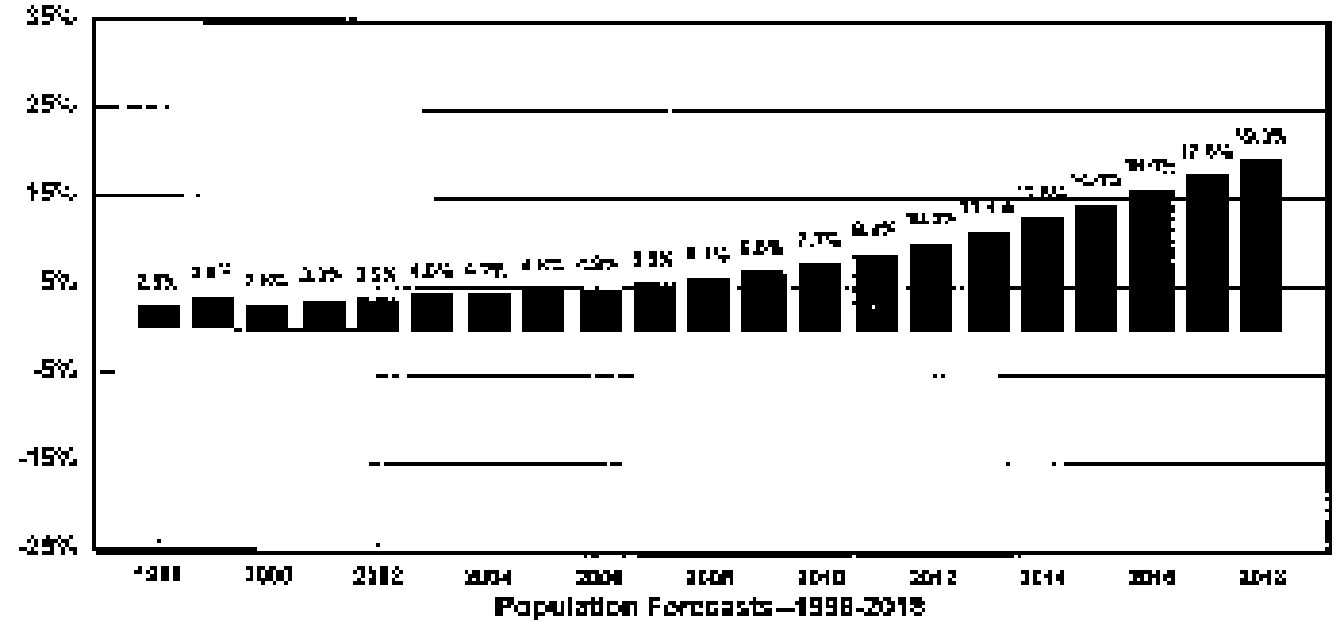
County Population Forecast Variances

Clark County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demography and Nevada Division of Water Planning modified forecast.

Clark County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demography and Nevada Division of Water Planning modified forecast.

Douglas County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Page 1 of 2

Year	Designated Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimate and ADWD Modified Forecasts	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	2,023	-	-	0.9%	2,023	-	-	1.26%
1951	2,005	(23)	-1.14%	1.21%	2,000	(23)	-1.15%	1.51%
1952	2,007	60	3.00%	1.48%	2,000	600	30.00%	1.43%
1953	2,205	(100)	-3.82%	1.55%	2,500	(100)	-3.85%	1.52%
1954	2,405	200	8.00%	1.25%	2,700	200	8.00%	1.95%
1955	3,100	400	17.31%	1.41%	3,100	400	14.81%	2.12%
1956	3,500	100	3.23%	1.25%	3,500	100	3.23%	1.55%
1957	3,700	0	0.00%	1.52%	3,500	100	3.12%	1.58%
1958	3,500	0	0.00%	1.78%	3,300	0	0.00%	1.27%
1959	3,500	300	8.57%	1.58%	3,500	200	6.00%	1.28%
1960	3,515	15	0.44%	1.48%	3,575	15	0.44%	1.29%
1961	3,931	270	10.22%	1.57%	3,651	370	10.32%	1.33%
1962	3,950	18	0.46%	1.55%	3,609	18	0.46%	1.26%
1963	3,911	15	0.38%	1.70%	4,044	25	1.30%	1.20%
1964	4,144	100	2.47%	1.15%	4,144	100	2.41%	1.22%
1965	5,193	1,051	25.36%	1.34%	5,193	1,051	25.26%	1.74%
1966	5,500	300	5.79%	1.56%	5,500	300	5.39%	1.36%
1967	5,604	100	1.81%	1.77%	5,604	100	1.81%	1.37%
1968	5,825	222	3.96%	1.26%	5,825	222	3.86%	1.66%
1969	6,079	254	4.36%	1.41%	6,245	166	15.84%	1.71%
1970	7,007	318	5.24%	1.47%	7,007	318	4.71%	1.43%
1971	7,800	753	10.73%	1.50%	7,900	753	10.07%	1.50%
1972	8,900	1,400	17.82%	1.63%	8,900	1,000	12.82%	1.61%
1973	10,100	1,200	14.72%	1.78%	10,100	1,200	14.97%	1.57%
1974	11,100	1,000	9.90%	1.80%	11,100	1,000	9.90%	1.56%
1975	12,100	600	5.41%	1.95%	12,100	1,400	9.01%	1.94%
1976	13,100	1,000	8.26%	2.07%	12,100	1,000	8.26%	2.00%
1977	14,300	1,200	9.15%	2.10%	14,300	1,200	8.46%	2.11%
1978	16,100	1,800	12.59%	2.24%	15,100	1,000	12.59%	2.24%
1979	18,100	2,000	12.98%	2.40%	18,100	2,000	14.20%	2.40%
1980	19,421	1,021	5.55%	2.10%	19,421	1,021	5.55%	2.43%
1981	20,410	980	5.00%	2.41%	20,410	980	5.06%	2.41%
1982	20,500	40	0.10%	2.40%	20,800	300	1.50%	2.40%
1983	21,510	450	2.00%	2.38%	21,510	450	2.08%	2.38%
1984	21,950	680	3.10%	2.38%	21,990	680	3.10%	2.38%
1985	23,000	1,000	4.54%	2.45%	23,000	1,010	4.35%	2.41%
1986	24,050	1,050	4.48%	2.52%	24,050	1,050	4.68%	2.42%
1987	25,000	1,000	4.13%	2.42%	25,000	1,000	4.23%	2.40%
1988	25,900	800	3.20%	2.37%	25,900	800	3.11%	2.26%
1989	26,950	1,050	3.95%	2.32%	26,910	1,030	3.90%	2.32%
1990	28,000	1,100	4.07%	2.37%	28,000	1,100	4.23%	2.27%
1991	28,810	740	2.64%	2.27%	28,810	740	2.54%	2.22%
1992	29,430	680	2.25%	2.19%	29,430	680	2.29%	2.19%
1993	30,150	500	1.70%	2.12%	30,200	500	1.62%	2.17%
1994	34,000	4,210	13.96%	2.32%	34,000	4,210	13.86%	2.32%
1995	35,800	1,780	5.20%	2.27%	35,800	1,780	5.21%	2.17%
1996	37,400	1,500	4.16%	2.26%	37,480	1,600	4.45%	2.22%
1997	39,300	2,110	5.53%	2.22%	39,300	2,110	5.62%	2.22%
1998	41,200	1,700	4.30%	2.21%	40,671	1,681	2.73%	2.22%
1999	42,810	1,450	3.52%	2.18%	41,775	1,082	2.64%	2.19%

Douglas County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) - July 1st (Persons)

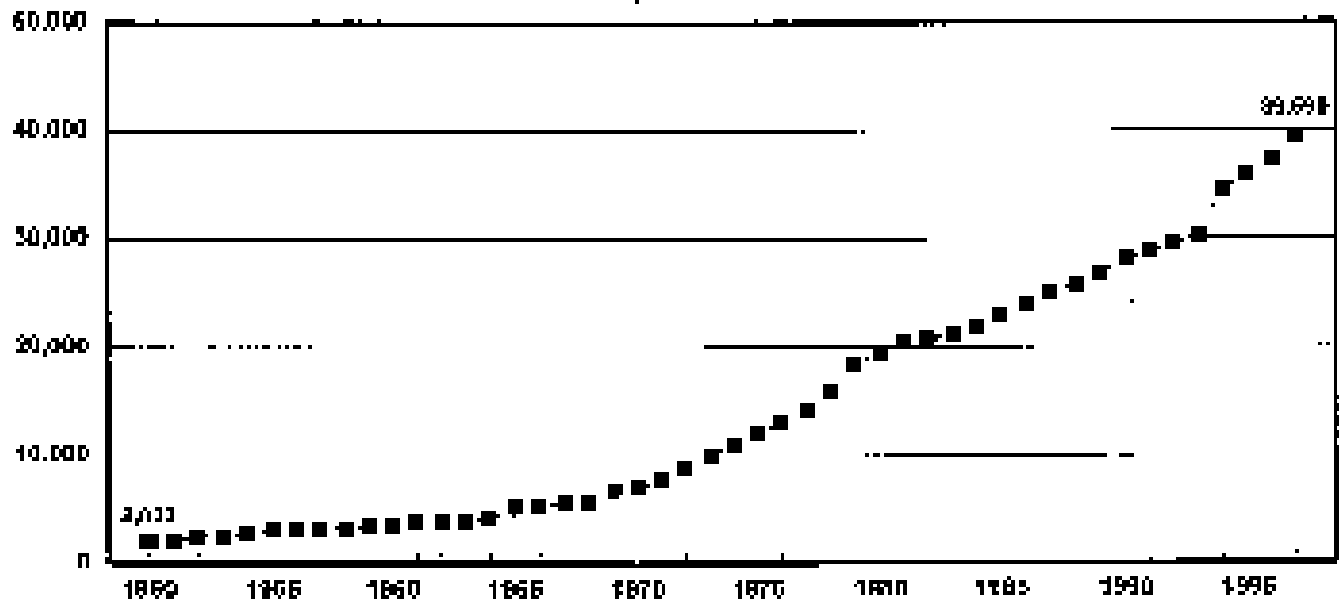
Year	Demographic Estimate and Forecast	Change in Population (Persons)	Percent Change State Population	Share of Total State Population	Estimate and Forecast Method	Change in Population (Persons)	Percent Change State Population	Share of Total State Population
2000	41,290	1,490	3.40%	2.38%	42,354	1,064	2.49%	3.48%
2001	42,710	1,420	3.41%	2.40%	43,774	1,064	2.52%	3.52%
2002	44,130	1,420	3.50%	2.42%	45,198	1,428	2.45%	3.56%
2003	45,550	1,420	3.59%	2.44%	46,622	1,424	2.53%	3.59%
2004	46,970	1,420	3.60%	2.45%	48,046	1,424	2.51%	3.63%
2005	48,390	1,420	3.62%	2.46%	49,470	1,424	2.54%	3.67%
2006	49,810	1,420	3.66%	2.47%	50,894	1,424	2.57%	3.71%
2007	51,230	1,420	3.67%	2.48%	52,318	1,424	2.60%	3.75%
2008	52,650	1,420	3.68%	2.49%	53,742	1,424	2.62%	3.79%
2009	54,070	1,420	3.69%	2.50%	55,166	1,424	2.63%	3.83%
2010	55,490	1,420	3.70%	2.51%	56,590	1,424	2.64%	3.87%
2011	56,910	1,420	3.71%	2.52%	58,014	1,424	2.65%	3.91%
2012	58,330	1,420	3.72%	2.53%	59,438	1,424	2.66%	3.95%
2013	59,750	1,420	3.73%	2.54%	60,862	1,424	2.67%	3.99%
2014	61,170	1,420	3.74%	2.55%	62,286	1,424	2.68%	4.03%
2015	62,590	1,420	3.75%	2.56%	63,710	1,424	2.69%	4.07%
2016	64,010	1,420	3.76%	2.57%	65,134	1,424	2.70%	4.11%
2017	65,430	1,420	3.77%	2.58%	66,558	1,424	2.71%	4.15%
2018	66,850	1,420	3.78%	2.59%	67,982	1,424	2.72%	4.19%
2019	68,270	1,420	3.79%	2.60%	69,406	1,424	2.73%	4.23%
2020	--	--	--	--	70,830	1,424	2.74%	4.27%
Growth Rate Analysis		1950-1997	6.52%					
Average Annual Rate		1950-1997	3.86%					
Rate Change by Period		1960-1970	7.53%					
Long Term (Century)		1970-1997	10.64%					
		1980-1990	3.35%					
		1990-1997	3.04%					
Forecast Periods:		1998-2008	2.91%	State Demographic		2.95%	MHWF Statistical Forecast	
		1998-2008	3.44%			2.81%		
		2008-2018	2.71%			1.68%		

Source: Nevada Office of the State Demographer (1950-1997) effective April 13, 1998; Nevada Office of Water Planning, Urban County Population Forecast Based on Clark County Department of Environmental Planning Records; Washoe County Population Forecast based on records provided by the Washoe County Department of Environmental Development.

County Population Analysis

Douglas County Population Estimates & Forecasts

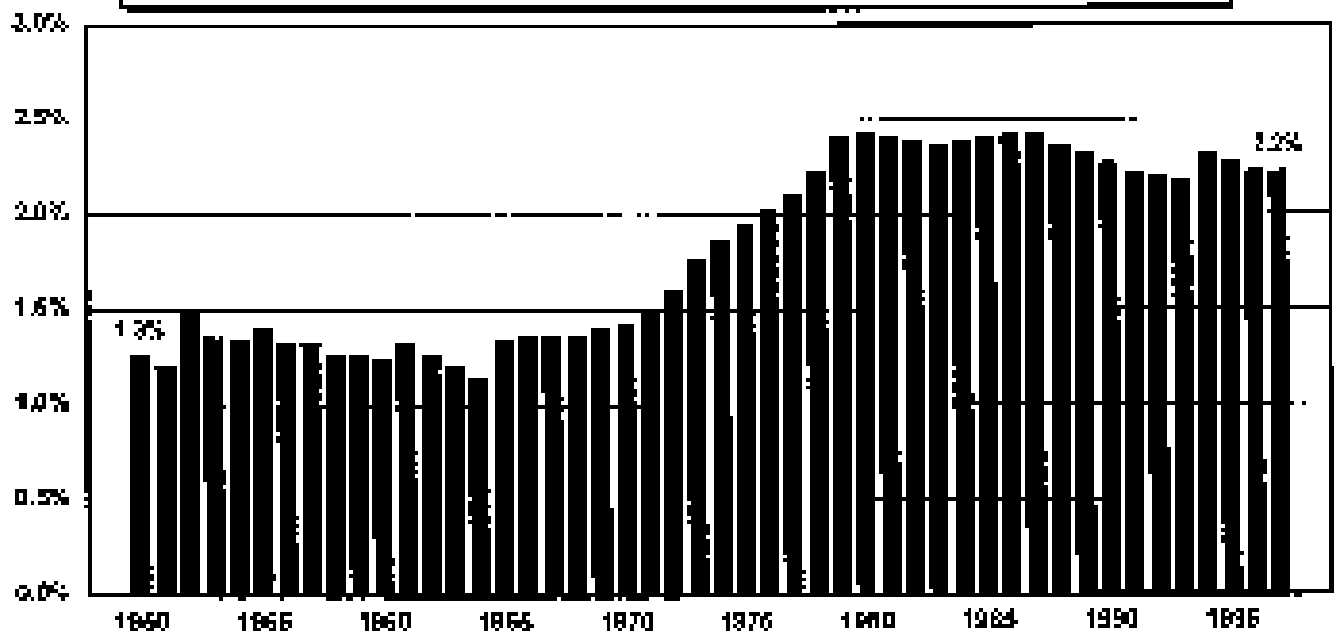
Population Estimates as of July 1 (Persons)



Source: Nevada State Demographer

Douglas County Population Shares

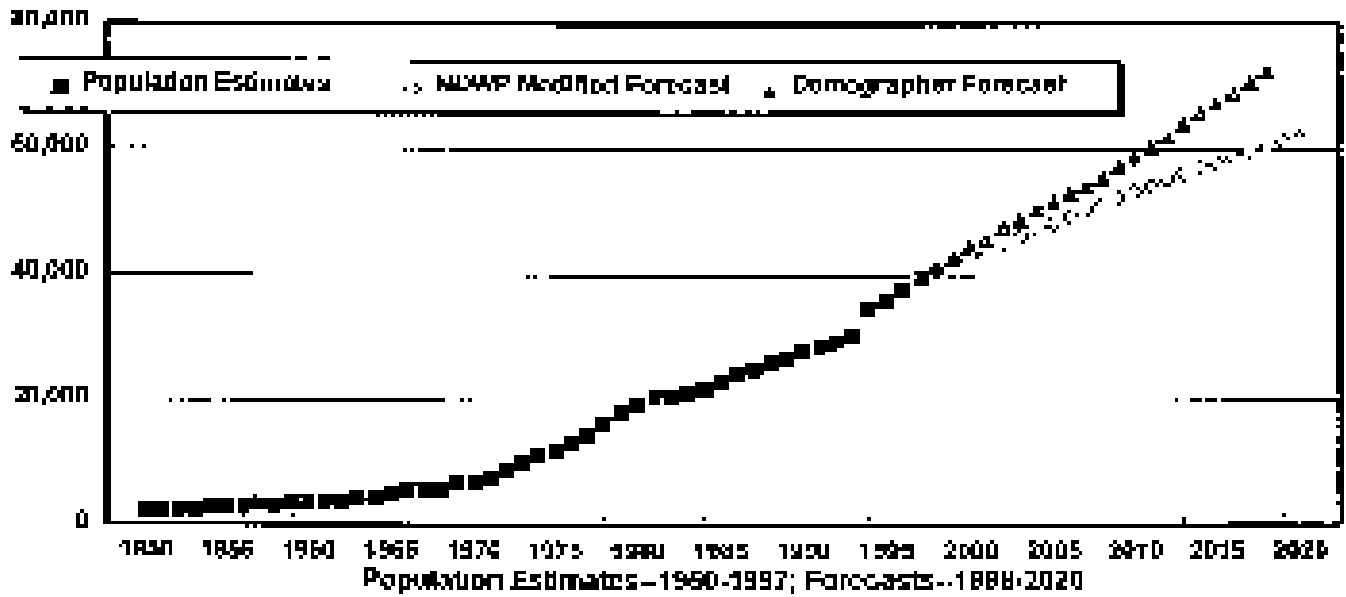
County Share of Total State Population (Percent)



Source: Nevada State Demographer

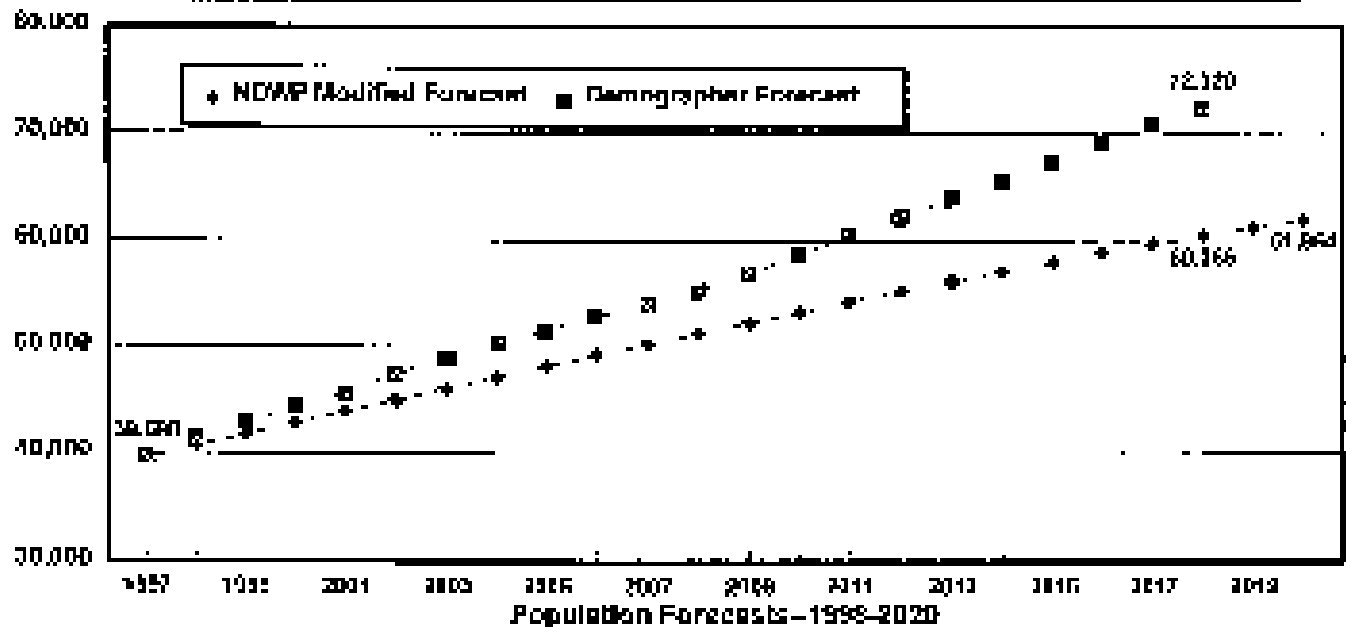
County Population Analysis and Forecasts

Douglas County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer; Nevada State Planning and Economic Development

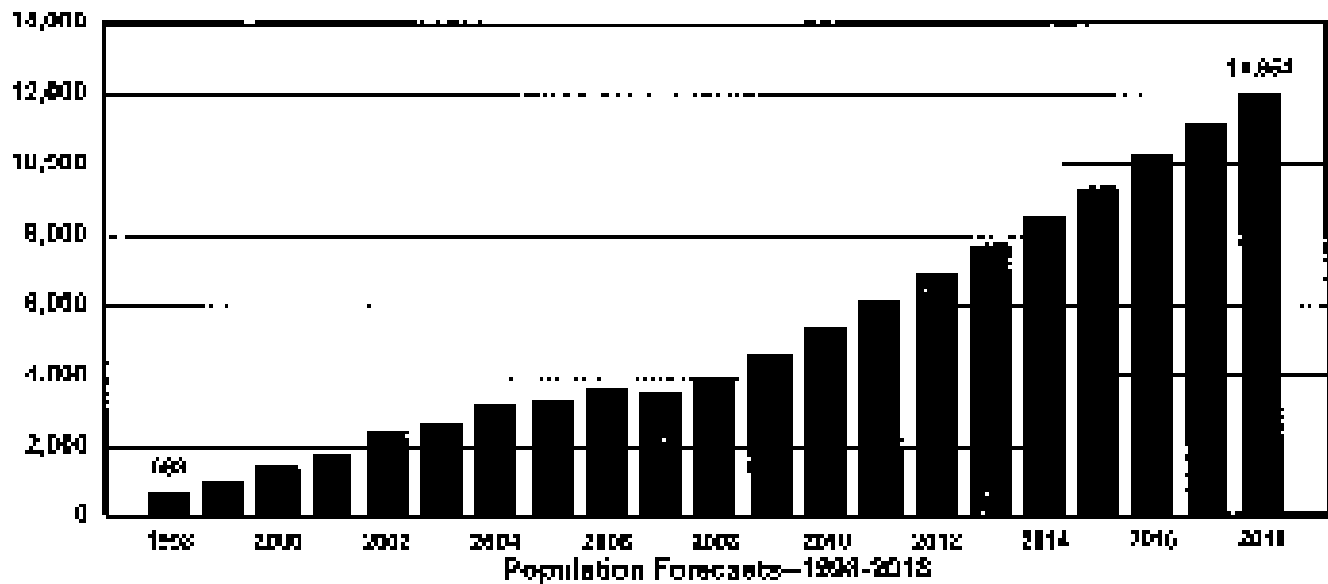
Douglas County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Nevada State Demographer; Nevada State Planning and Economic Development

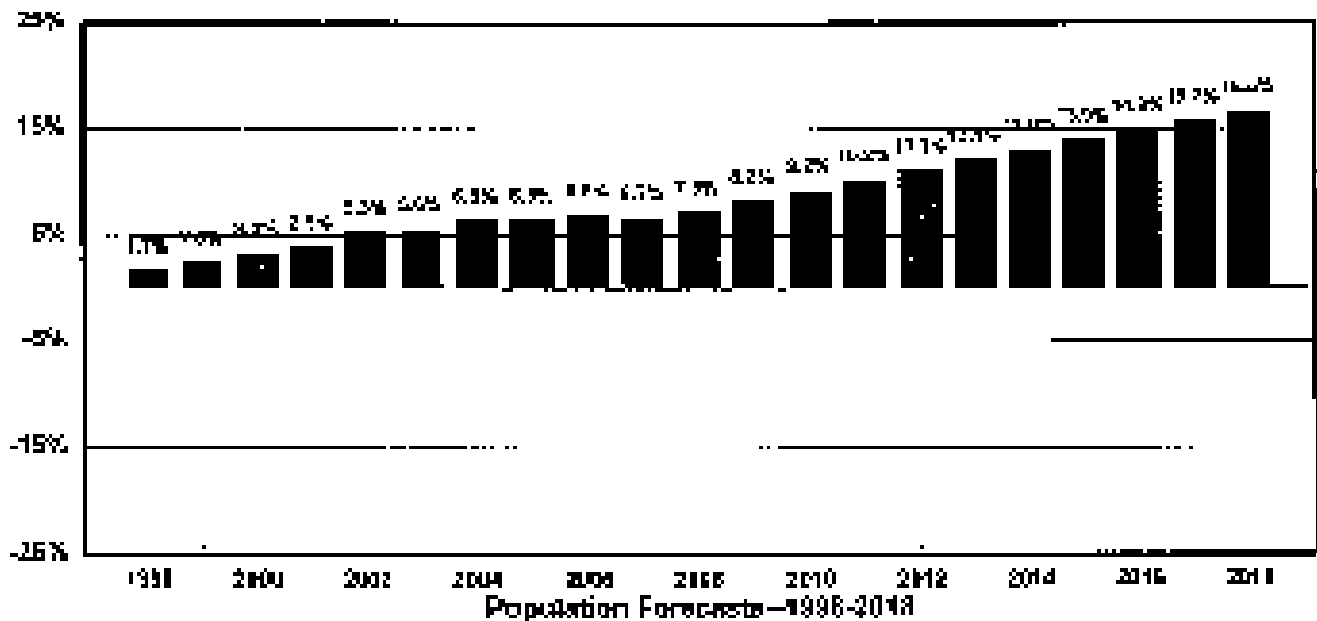
County Population Forecast Variances

Douglas County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning and Forecasting

Douglas County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Nevada Division of Water Planning and Forecasting

Elka County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)-July 1st (Persons)

Year	Demographer Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimate and DWP Modified Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	1,503	-	-	7.20%	11,250	-	-	7.20%
1951	1,502	-97	-6.5%	7.19%	11,950	197	1.68%	7.19%
1952	12,205	907	6.05%	6.44%	12,200	300	2.52%	6.44%
1953	12,300	(200)	-1.64%	6.50%	12,007	(300)	-1.54%	6.50%
1954	12,400	400	3.25%	6.51%	12,400	199	1.59%	6.51%
1955	12,350	-50	-0.41%	6.56%	12,500	500	4.03%	6.56%
1956	12,300	-50	-0.41%	6.59%	13,200	700	5.33%	6.59%
1957	13,400	1,100	8.95%	7.19%	13,400	200	1.50%	7.19%
1958	13,500	100	0.75%	7.21%	13,500	100	0.75%	7.21%
1959	13,600	100	0.74%	7.30%	13,600	100	0.74%	7.30%
1960	12,051	(1,549)	-12.8%	4.18%	2,551	(1,249)	-11.28%	4.18%
1961	12,211	160	1.33%	4.11%	2,711	160	1.33%	4.11%
1962	12,157	(24)	-0.20%	3.86%	12,147	(24)	-0.20%	3.86%
1963	12,158	(1)	-0.01%	3.61%	12,168	(19)	-0.15%	3.61%
1964	12,207	49	0.40%	3.59%	12,207	40	0.40%	3.59%
1965	12,841	624	5.11%	3.85%	12,841	624	5.11%	3.85%
1966	13,300	458	3.57%	3.94%	13,300	458	3.57%	3.94%
1967	13,151	(149)	-1.13%	3.26%	13,111	(168)	-1.28%	3.26%
1968	13,678	527	4.01%	3.68%	13,076	(602)	-4.62%	3.68%
1969	4,754	(884)	-19.9%	2.52%	14,076	980	7.04%	2.92%
1970	3,845	(1,103)	-27.9%	2.12%	11,946	(1,100)	-9.28%	2.82%
1971	23,900	1,460	6.33%	2.67%	13,000	1,460	11.33%	2.67%
1972	15,100	(1,900)	-12.6%	2.06%	15,100	200	1.33%	2.06%
1973	15,500	400	2.65%	2.52%	15,500	400	2.65%	2.52%
1974	15,700	200	1.28%	2.53%	15,700	200	1.28%	2.53%
1975	13,800	(1,900)	-13.4%	2.11%	15,600	(1,900)	-12.2%	2.11%
1976	13,800	0	0.00%	2.14%	15,400	(200)	-1.28%	2.14%
1977	13,500	(300)	-2.17%	2.05%	15,500	(100)	-0.65%	2.05%
1978	13,800	300	2.22%	2.06%	15,800	300	1.94%	2.06%
1979	13,600	(200)	-1.46%	2.10%	16,000	300	1.88%	2.10%
1980	17,229	3,629	26.7%	2.16%	17,229	1,169	7.25%	2.16%
1981	18,630	1,401	8.13%	2.26%	18,630	1,381	7.47%	2.26%
1982	19,500	870	4.67%	2.21%	18,900	380	2.01%	2.21%
1983	20,750	1,250	6.43%	2.28%	20,450	900	4.40%	2.28%
1984	21,400	650	3.14%	2.38%	21,400	970	4.53%	2.38%
1985	22,350	950	4.43%	2.39%	21,350	(100)	-0.47%	2.39%
1986	23,020	670	3.04%	2.50%	21,520	(170)	-0.79%	2.50%
1987	24,300	1,280	5.93%	2.58%	24,500	980	4.10%	2.58%
1988	27,210	2,910	12.0%	2.66%	27,000	2,700	11.25%	2.66%
1989	31,220	4,010	14.7%	2.74%	31,220	4,800	15.3%	2.74%
1990	33,770	2,550	8.16%	2.78%	33,770	2,540	7.52%	2.78%
1991	35,500	1,730	5.12%	2.77%	35,500	2,180	6.16%	2.77%
1992	37,420	1,920	5.40%	2.78%	37,420	1,470	3.96%	2.78%
1993	38,740	1,320	3.53%	2.81%	38,540	1,920	5.11%	2.81%
1994	41,300	2,560	6.63%	2.73%	41,200	1,960	4.75%	2.73%
1995	43,030	1,730	4.20%	2.75%	43,550	1,750	4.01%	2.75%
1996	45,600	2,570	5.89%	2.71%	45,500	3,580	7.87%	2.71%
1997	47,710	2,080	4.57%	2.68%	47,710	2,080	4.36%	2.68%
1998	50,200	2,490	5.22%	2.69%	49,741	1,331	2.7%	2.69%
1999	51,540	1,340	2.68%	2.62%	50,300	(1,440)	-2.89%	2.64%

Elko County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) – July 1st (Persons)

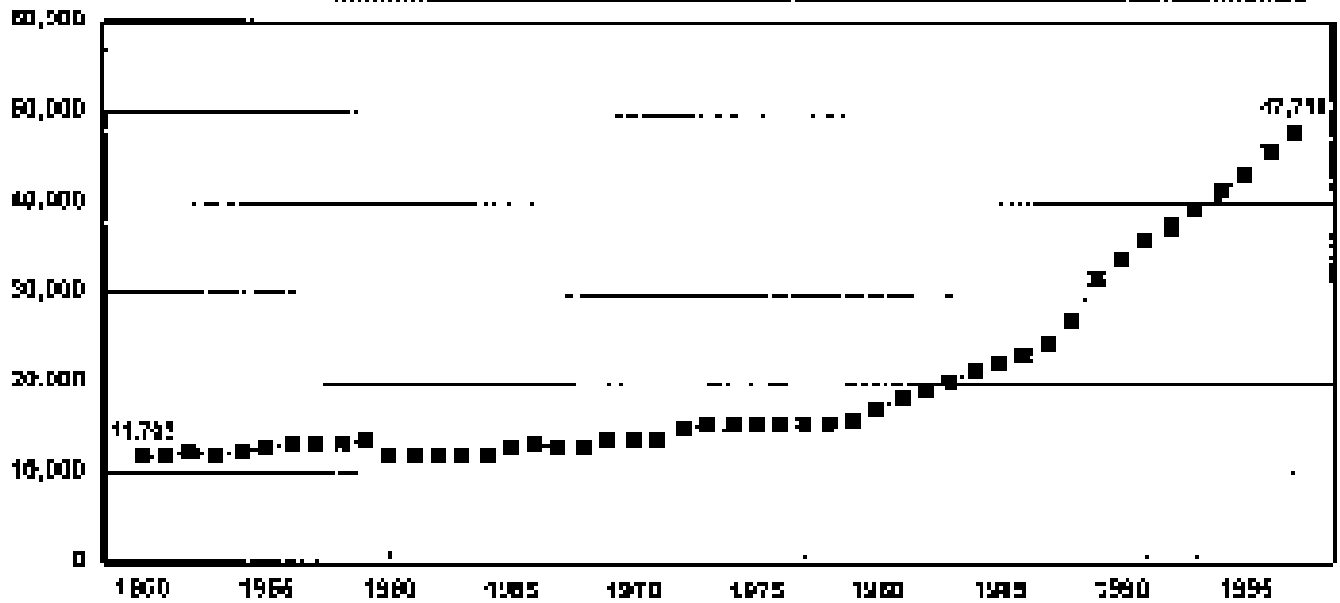
Page 2 of 2

Year	Demographic Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population	Estimated NDWP Modified Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	53,230	1,970	3.72%	2.62%	51,069	1,374	2.69%	2.60%
2001	54,090	1,860	3.46%	2.60%	52,551	1,285	2.45%	2.57%
2002	55,430	2,150	3.94%	2.61%	54,317	1,266	2.35%	2.54%
2003	56,970	1,640	2.86%	2.60%	55,458	1,242	2.25%	2.51%
2004	58,810	1,840	3.11%	2.59%	56,573	1,215	2.15%	2.48%
2005	61,370	2,560	4.34%	2.59%	57,897	1,184	2.05%	2.45%
2006	63,960	2,590	4.17%	2.58%	59,169	1,151	1.95%	2.42%
2007	66,970	3,010	4.55%	2.58%	60,194	1,115	1.85%	2.39%
2008	69,450	2,480	3.70%	2.49%	61,230	1,036	1.73%	2.36%
2009	71,770	2,320	3.28%	2.49%	62,224	1,004	1.63%	2.33%
2010	73,940	2,170	2.99%	2.48%	63,274	950	1.51%	2.30%
2011	76,120	2,180	2.95%	2.46%	64,156	942	1.46%	2.28%
2012	78,290	2,170	2.84%	2.45%	65,058	892	1.37%	2.25%
2013	80,750	2,460	3.03%	2.43%	65,897	829	1.25%	2.22%
2014	83,340	2,590	3.20%	2.42%	66,681	784	1.18%	2.20%
2015	86,010	2,670	3.11%	2.40%	67,405	729	1.08%	2.18%
2016	88,660	2,650	3.07%	2.38%	68,074	667	0.98%	2.16%
2017	91,220	2,560	2.89%	2.36%	68,691	606	0.88%	2.13%
2018	93,770	2,550	2.79%	2.34%	69,224	511	0.74%	2.11%
2019	96,290	2,520	2.68%	2.32%	69,701	478	0.69%	2.09%
2020	98,780	2,490	2.55%	2.30%	70,111	411	0.59%	2.07%
Long-Term Rate Analysis:								
Average Annual Rate	1950-1960		3.01%					
Average Annual Rate	1960-1990		0.20%					
Rate Change by Specific Time Period (Percent)	1960-1970		1.37%					
	1970-1980		2.16%					
	1980-1990		0.57%					
	1990-1997		3.26%					
Forecast Periods:	1995-2015		2.40%	State Demographer		1.75%	NDWP Modified Forecast	
	1996-2006		2.92%			2.29%		
	2008-2018		2.05%			1.20%		

Source: Nevada Office of the State Demographer (1997a, 1997b, 1997c, April 17, 1998); Nevada Department of Health Planning (2007); Clark County population records from Clark County Department of Comprehensive Planning (2006); Water County population records used as a forecast provided by the Nevada County Department of Community Development.

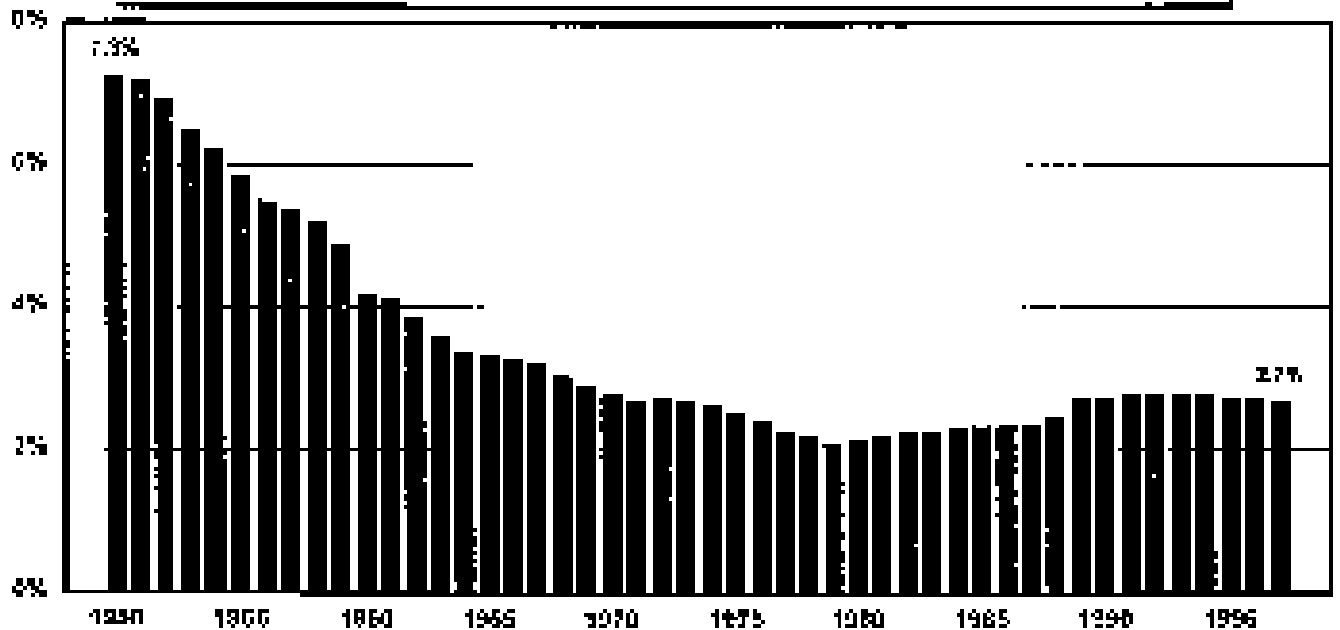
County Population Analysis

Elko County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Demographer

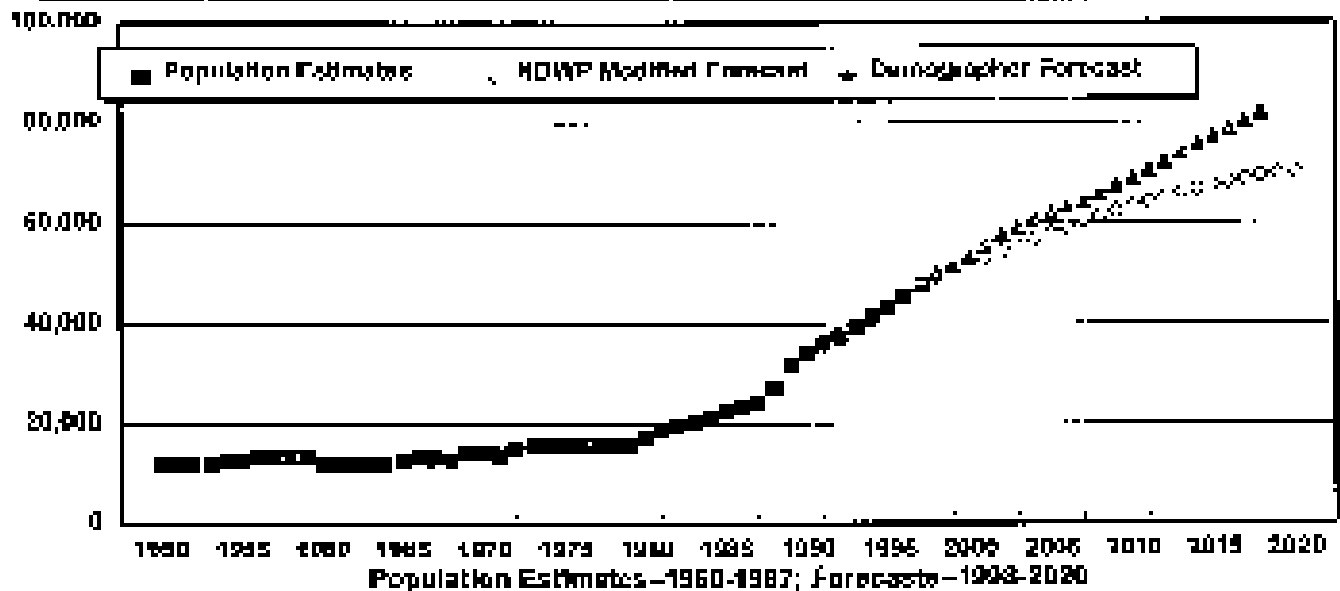
Elko County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Demographer

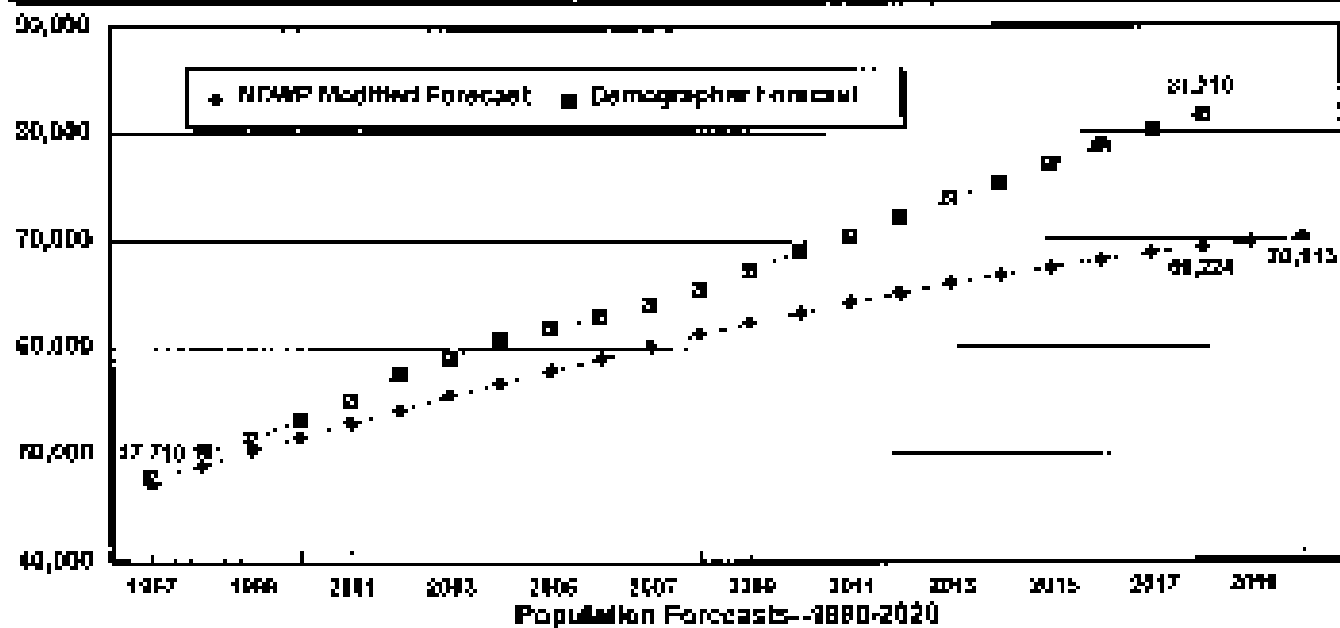
County Population Analysis and Forecasts

Elko County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning and Forecasting

Elko County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

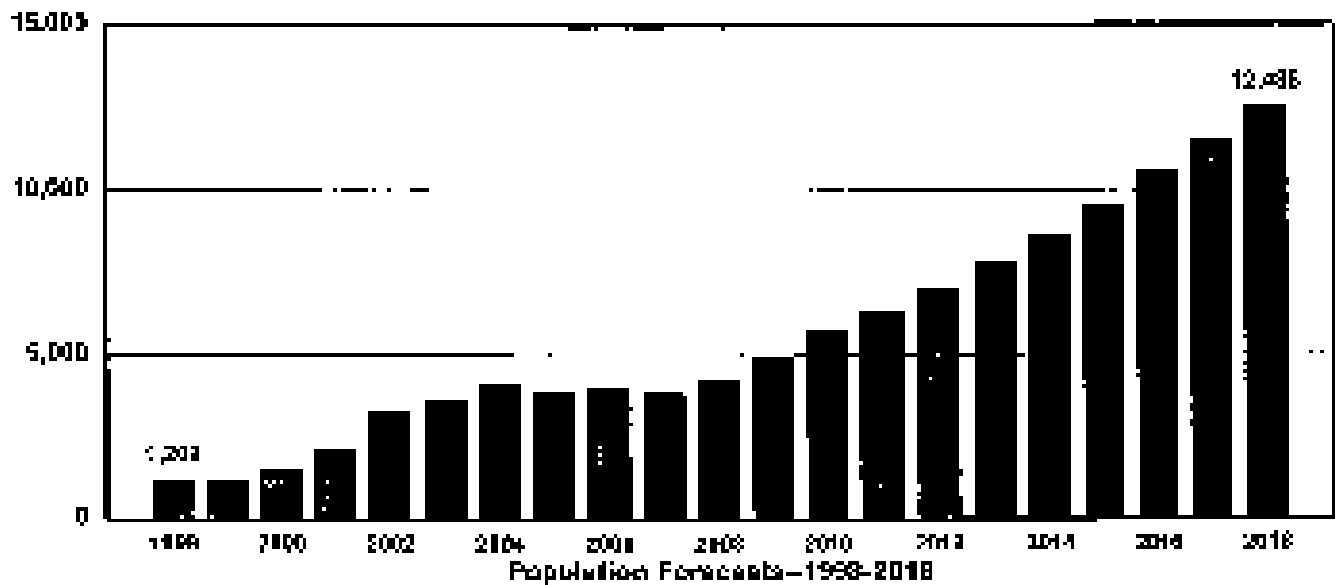


Source: Nevada State Demographer, Nevada Division of Water Planning and Forecasting

County Population Forecast Variances

Elko County Population Forecast Variances

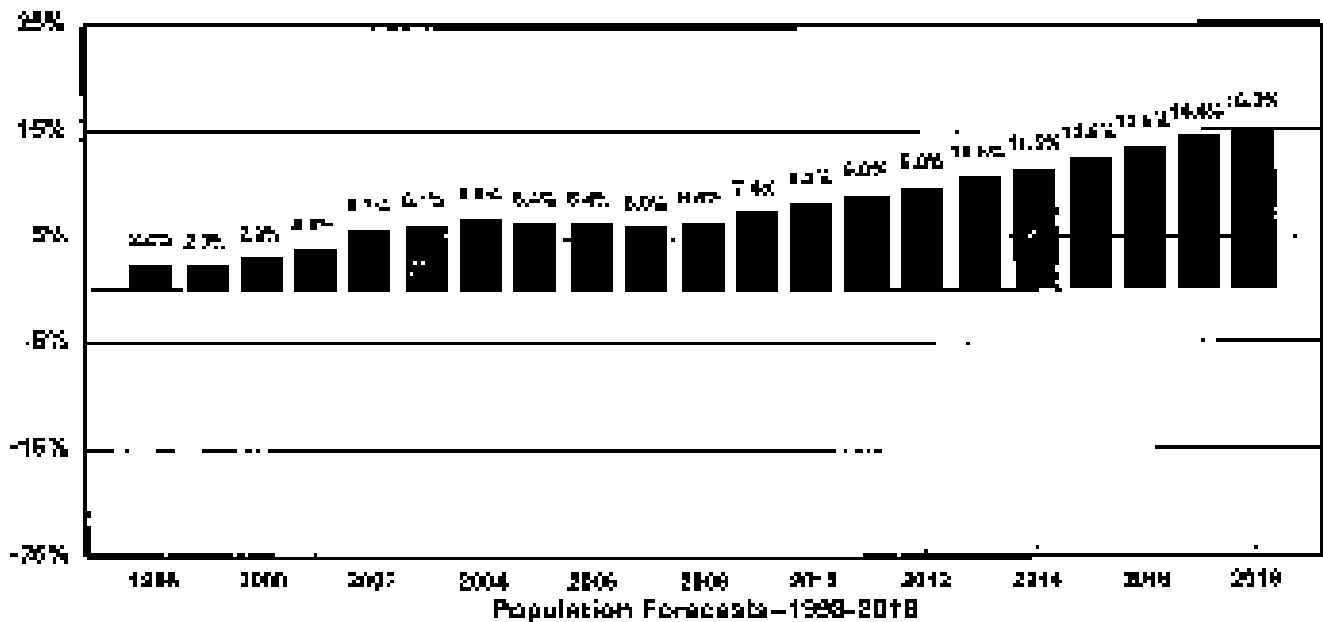
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Nevada State Growth with NDWP Modified Forecast

Elko County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Nevada State Growth with NDWP Modified Forecast

Esmeralda County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Page 1 of 2

Year	Population Estimate	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total Nevada State Population	Births and Deaths Excess	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total Nevada State Population
1950	611	-	-	0.28%	611	-	-	0.28%
1951	600	(11)	-1.80%	0.26%	600	(11)	-1.81%	0.26%
1952	600	0	0.00%	0.26%	600	0	0.00%	0.26%
1953	600	0	0.00%	0.26%	600	0	0.00%	0.26%
1954	600	0	0.00%	0.26%	600	0	0.00%	0.26%
1955	600	0	0.00%	0.26%	600	0	0.00%	0.26%
1956	600	0	0.00%	0.26%	600	0	0.00%	0.26%
1957	500	(100)	-16.67%	0.20%	500	(100)	-16.67%	0.20%
1958	500	0	0.00%	0.19%	500	0	0.00%	0.19%
1959	490	(10)	-2.00%	0.22%	490	(10)	-2.04%	0.18%
1960	600	110	22.45%	0.25%	600	110	22.04%	0.25%
1961	600	0	0.00%	0.25%	600	0	0.00%	0.25%
1962	594	(6)	-1.00%	0.25%	594	(6)	-1.00%	0.25%
1963	495	(99)	-16.67%	0.18%	495	(99)	-16.67%	0.18%
1964	382	(113)	-22.85%	0.11%	382	(113)	-29.67%	0.11%
1965	38	(144)	-37.69%	0.02%	38	(144)	-37.69%	0.02%
1966	52	14	26.32%	0.03%	52	14	26.32%	0.03%
1967	544	512	979.0%	0.23%	544	512	979.0%	0.23%
1968	546	2	0.37%	0.23%	546	2	0.37%	0.23%
1969	561	15	2.75%	0.23%	561	15	2.75%	0.23%
1970	625	64	11.39%	0.23%	625	64	11.39%	0.23%
1971	600	(25)	-4.00%	0.22%	600	(25)	-4.00%	0.22%
1972	600	0	0.00%	0.21%	600	0	0.00%	0.21%
1973	700	100	16.67%	0.22%	700	100	16.67%	0.22%
1974	700	0	0.00%	0.22%	700	0	0.00%	0.22%
1975	700	0	0.00%	0.21%	700	0	0.00%	0.21%
1976	700	0	0.00%	0.21%	700	0	0.00%	0.21%
1977	700	0	0.00%	0.21%	700	0	0.00%	0.21%
1978	700	0	0.00%	0.21%	700	0	0.00%	0.21%
1979	800	100	14.29%	0.21%	800	100	14.29%	0.20%
1980	77	(23)	-28.87%	0.03%	77	(23)	-28.87%	0.03%
1981	1,000	923	92.69%	0.44%	1,000	923	92.69%	0.39%
1982	1,120	120	10.91%	0.47%	1,120	120	10.91%	0.39%
1983	1,480	360	23.21%	0.60%	1,480	360	23.21%	0.46%
1984	1,680	200	13.51%	0.68%	1,680	200	13.51%	0.44%
1985	1,500	(180)	-10.71%	0.66%	1,500	(180)	-13.33%	0.46%
1986	1,540	40	2.67%	0.66%	1,540	40	2.67%	0.46%
1987	1,540	0	0.00%	0.66%	1,540	0	0.00%	0.45%
1988	1,700	160	10.39%	0.68%	1,700	160	9.74%	0.42%
1989	1,380	(320)	-18.82%	0.52%	1,380	(320)	-23.53%	0.37%
1990	1,780	400	28.99%	0.71%	1,780	400	28.99%	0.41%
1991	1,390	(390)	-21.91%	0.51%	1,390	(390)	-27.53%	0.37%
1992	1,410	20	1.44%	0.51%	1,410	20	1.44%	0.37%
1993	1,320	(90)	-6.38%	0.49%	1,320	(90)	-6.38%	0.36%
1994	1,280	(40)	-3.03%	0.49%	1,280	(40)	-3.03%	0.36%
1995	1,330	50	3.91%	0.50%	1,330	50	3.91%	0.36%
1996	1,460	130	9.78%	0.58%	1,460	130	9.04%	0.40%
1997	1,400	(60)	-4.11%	0.56%	1,400	(60)	-4.11%	0.40%
1998	1,400	0	0.00%	0.56%	1,400	0	0.00%	0.40%
1999	1,200	(200)	-14.29%	0.47%	1,200	(200)	-14.29%	0.36%

Esmeralda County Population Estimates & Forecasts

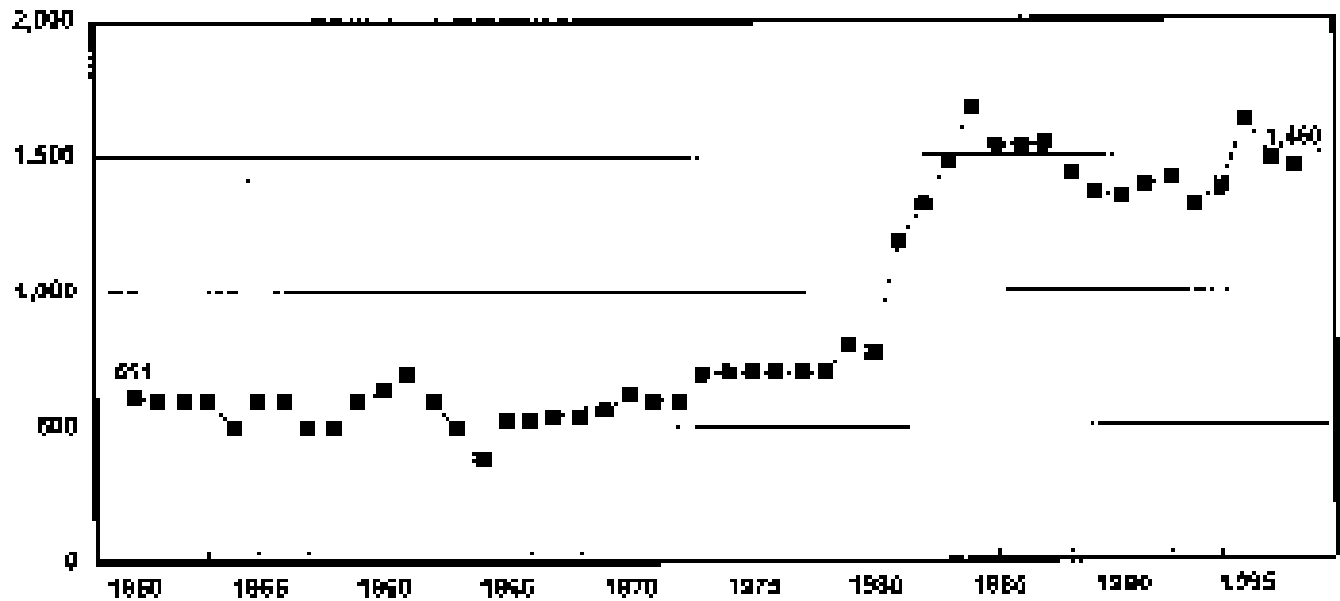
(Population Estimates (1958-1997) and Forecasts (1998-2020) – July 1st (Persons))

Year	Demographic Estimate/Forecast	Change in Population (Persons)	Percent Change from Population	Share of Total State Population	Estimated and NDWF Modified Forecasts	Change in Population (Persons)	Percent Change from	Share of Total State Population
1960	1,350	100	7.58%	0.07%	1,430	6	0.44%	0.07%
1961	1,360	100	7.38%	0.08%	1,446	6	0.45%	0.07%
1962	1,370	120	8.89%	0.07%	1,462	6	0.46%	0.07%
1963	1,380	140	10.37%	0.07%	1,478	6	0.46%	0.07%
1964	1,390	160	11.85%	0.08%	1,493	5	0.36%	0.07%
1965	1,400	170	12.59%	0.08%	1,509	5	0.34%	0.06%
1966	1,410	170	12.59%	0.08%	1,525	5	0.32%	0.06%
1967	1,420	170	12.59%	0.08%	1,541	5	0.32%	0.06%
1968	1,430	170	12.59%	0.08%	1,557	5	0.32%	0.06%
1969	1,440	170	12.59%	0.08%	1,573	4	0.28%	0.06%
1970	1,450	170	12.59%	0.08%	1,589	4	0.28%	0.06%
1971	1,460	170	12.59%	0.08%	1,605	4	0.28%	0.06%
1972	1,470	170	12.59%	0.08%	1,621	3	0.25%	0.06%
1973	1,480	170	12.59%	0.08%	1,637	3	0.25%	0.06%
1974	1,490	170	12.59%	0.08%	1,653	3	0.25%	0.06%
1975	1,500	170	12.59%	0.08%	1,669	2	0.18%	0.05%
1976	1,510	170	12.59%	0.08%	1,685	2	0.18%	0.05%
1977	1,520	170	12.59%	0.08%	1,701	2	0.18%	0.05%
1978	1,530	170	12.59%	0.08%	1,717	2	0.18%	0.05%
1979	1,540	170	12.59%	0.08%	1,733	1	0.18%	0.05%
1980	1,550	170	12.59%	0.08%	1,749	1	0.18%	0.05%
1981	1,560	170	12.59%	0.08%	1,765	1	0.18%	0.05%
1982	1,570	170	12.59%	0.08%	1,781	1	0.18%	0.05%
1983	1,580	170	12.59%	0.08%	1,797	1	0.18%	0.05%
1984	1,590	170	12.59%	0.08%	1,813	1	0.18%	0.05%
1985	1,600	170	12.59%	0.08%	1,829	1	0.18%	0.05%
1986	1,610	170	12.59%	0.08%	1,845	1	0.18%	0.05%
1987	1,620	170	12.59%	0.08%	1,861	1	0.18%	0.05%
1988	1,630	170	12.59%	0.08%	1,877	1	0.18%	0.05%
1989	1,640	170	12.59%	0.08%	1,893	1	0.18%	0.05%
1990	1,650	170	12.59%	0.08%	1,909	1	0.18%	0.05%
1991	1,660	170	12.59%	0.08%	1,925	1	0.18%	0.05%
1992	1,670	170	12.59%	0.08%	1,941	1	0.18%	0.05%
1993	1,680	170	12.59%	0.08%	1,957	1	0.18%	0.05%
1994	1,690	170	12.59%	0.08%	1,973	1	0.18%	0.05%
1995	1,700	170	12.59%	0.08%	1,989	1	0.18%	0.05%
1996	1,710	170	12.59%	0.08%	2,005	1	0.18%	0.05%
1997	1,720	170	12.59%	0.08%	2,021	1	0.18%	0.05%
1998	1,730	170	12.59%	0.08%	2,037	1	0.18%	0.05%
1999	1,740	170	12.59%	0.08%	2,053	1	0.18%	0.05%
2000	1,750	170	12.59%	0.08%	2,069	1	0.18%	0.05%
2001	1,760	170	12.59%	0.08%	2,085	1	0.18%	0.05%
2002	1,770	170	12.59%	0.08%	2,101	1	0.18%	0.05%
2003	1,780	170	12.59%	0.08%	2,117	1	0.18%	0.05%
2004	1,790	170	12.59%	0.08%	2,133	1	0.18%	0.05%
2005	1,800	170	12.59%	0.08%	2,149	1	0.18%	0.05%
2006	1,810	170	12.59%	0.08%	2,165	1	0.18%	0.05%
2007	1,820	170	12.59%	0.08%	2,181	1	0.18%	0.05%
2008	1,830	170	12.59%	0.08%	2,197	1	0.18%	0.05%
2009	1,840	170	12.59%	0.08%	2,213	1	0.18%	0.05%
2010	1,850	170	12.59%	0.08%	2,229	1	0.18%	0.05%
2011	1,860	170	12.59%	0.08%	2,245	1	0.18%	0.05%
2012	1,870	170	12.59%	0.08%	2,261	1	0.18%	0.05%
2013	1,880	170	12.59%	0.08%	2,277	1	0.18%	0.05%
2014	1,890	170	12.59%	0.08%	2,293	1	0.18%	0.05%
2015	1,900	170	12.59%	0.08%	2,309	1	0.18%	0.05%
2016	1,910	170	12.59%	0.08%	2,325	1	0.18%	0.05%
2017	1,920	170	12.59%	0.08%	2,341	1	0.18%	0.05%
2018	1,930	170	12.59%	0.08%	2,357	1	0.18%	0.05%
2019	1,940	170	12.59%	0.08%	2,373	1	0.18%	0.05%
2020	1,950	170	12.59%	0.08%	2,389	1	0.18%	0.05%
1958-1997			1.87%					
1950-1960			0.71%					
1960-1970			-0.17%					
1970-1980			2.21%					
1980-1990			0.68%					
1990-1997			1.17%					
Forecast Periods:	1998-2018		0.58%	State Demographic		0.28%	NDWF Modified Forecast	
	1998-2048		0.55%			0.28%		
	2018-2048		0.17%			0.18%		

Source: Nevada Office of State Demography (OSED) as of April 1, 1998; Annual Division of Water Planning (DWP) of water population forecasts based on Clark County Agreement of 1998; this file the revised, Water County population forecasts based on forecasts provided by the Water County Department of Community Development.

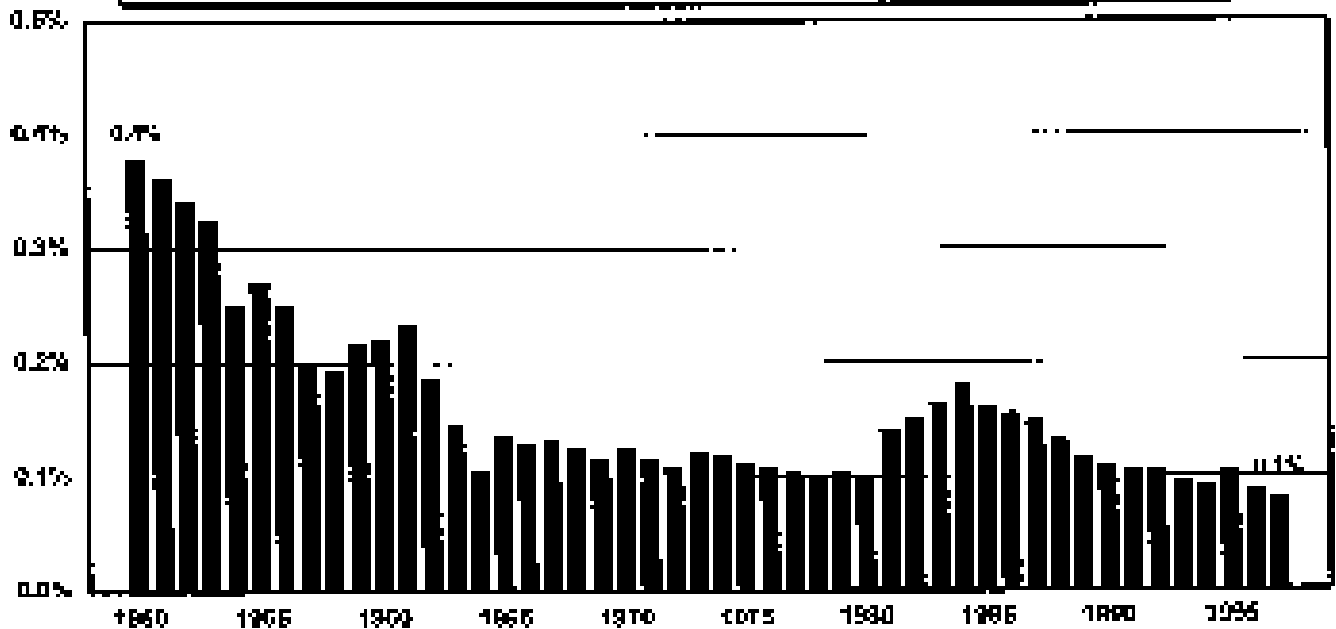
County Population Analysis

Esmeralda County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Demographic

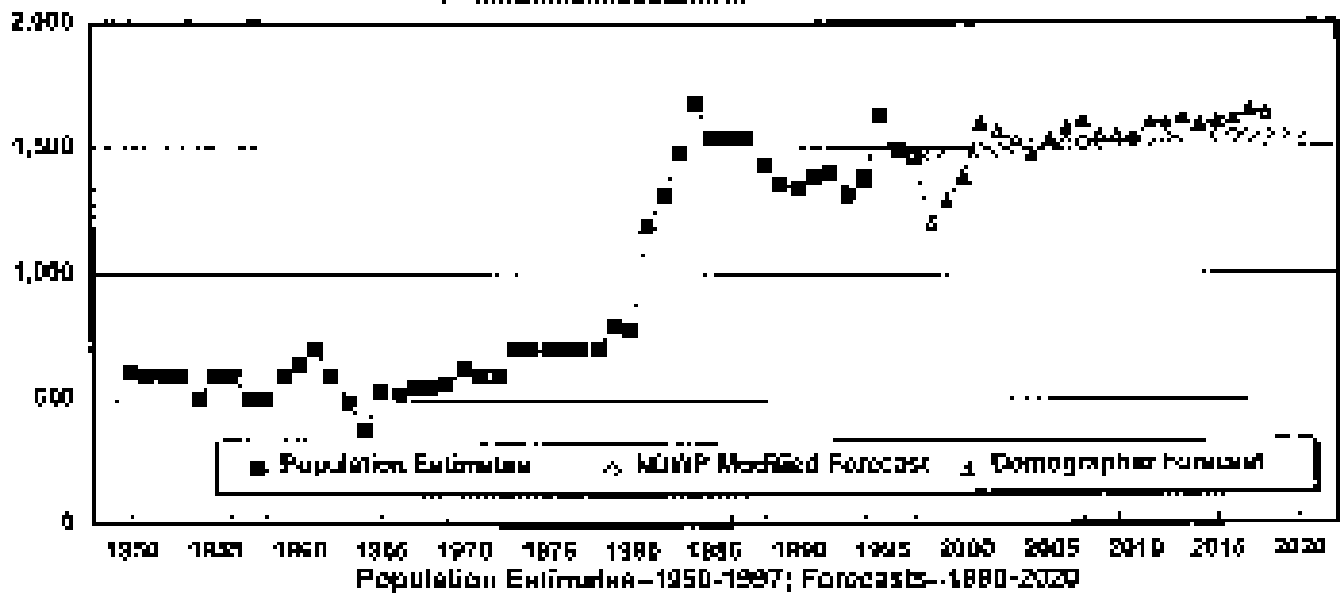
Esmeralda County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Demographic

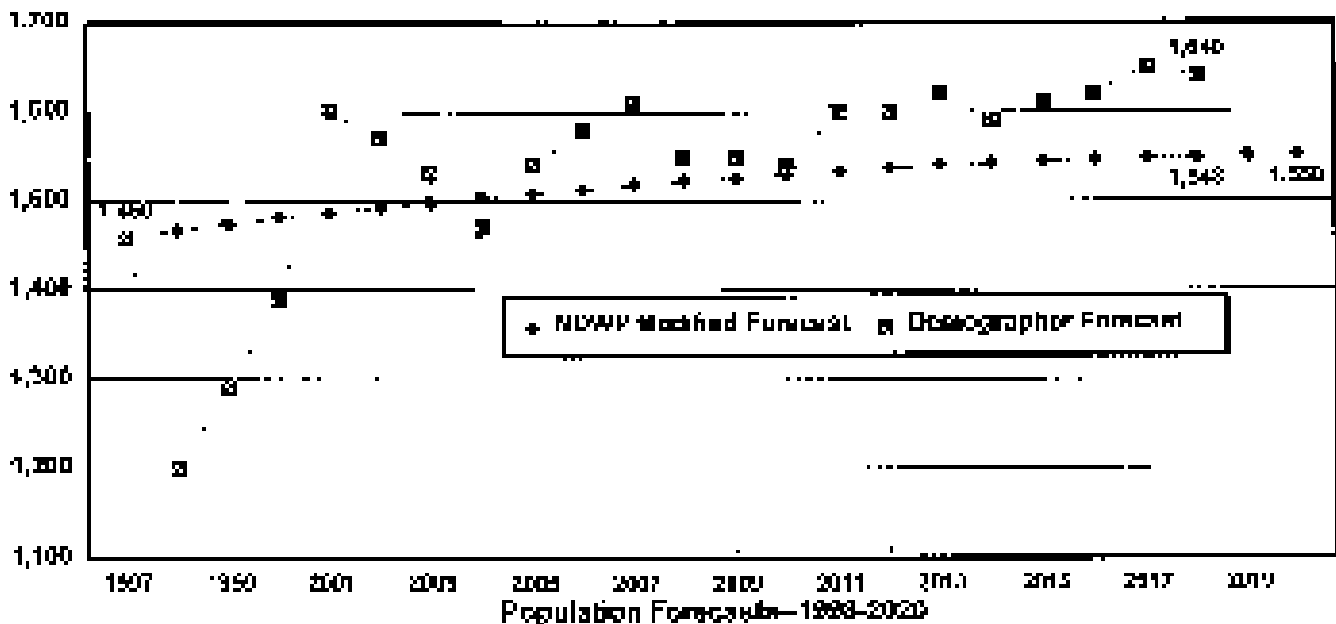
County Population Analysis and Forecasts

Esmeralda County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning and Forecasting

Esmeralda County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning and Forecasting

County Population Forecast Variances

Esmeralda County Population Forecast Variances Demographer Forecast Minus NDWP Modified Forecast-July 1 (Persons)

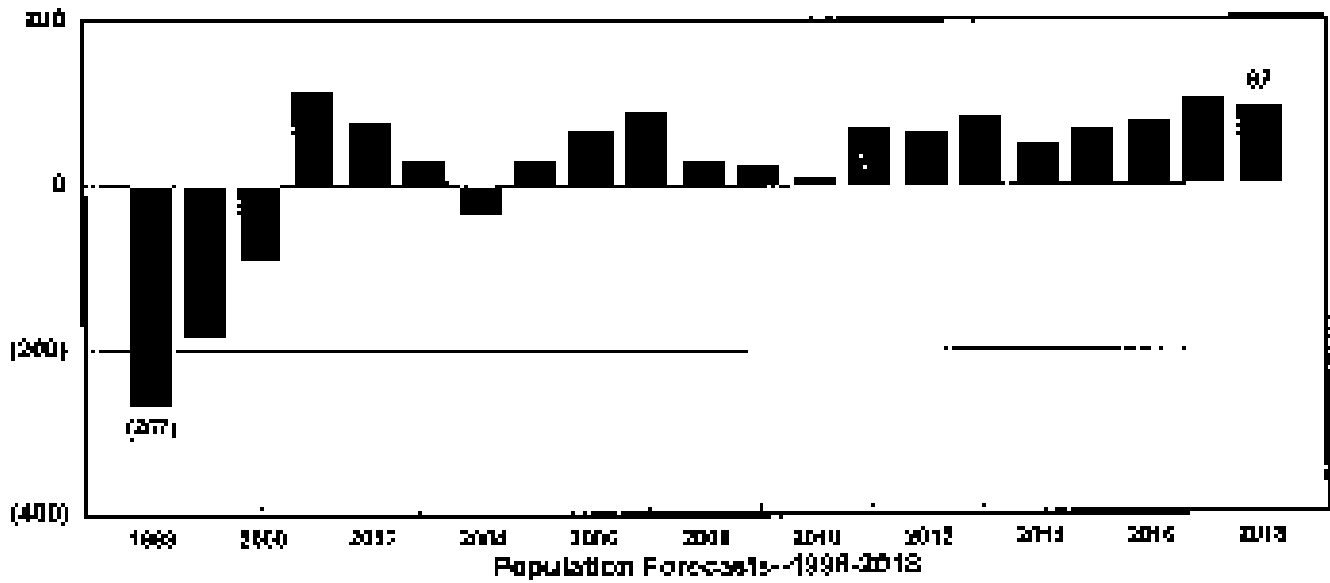


Figure 10. Nevada Statewide Population Forecast Variances from NDWP Modified Forecast

Esmeralda County Population Forecast Variances Demographer Forecast Minus NDWP Modified Forecast-July 1 (Percent)

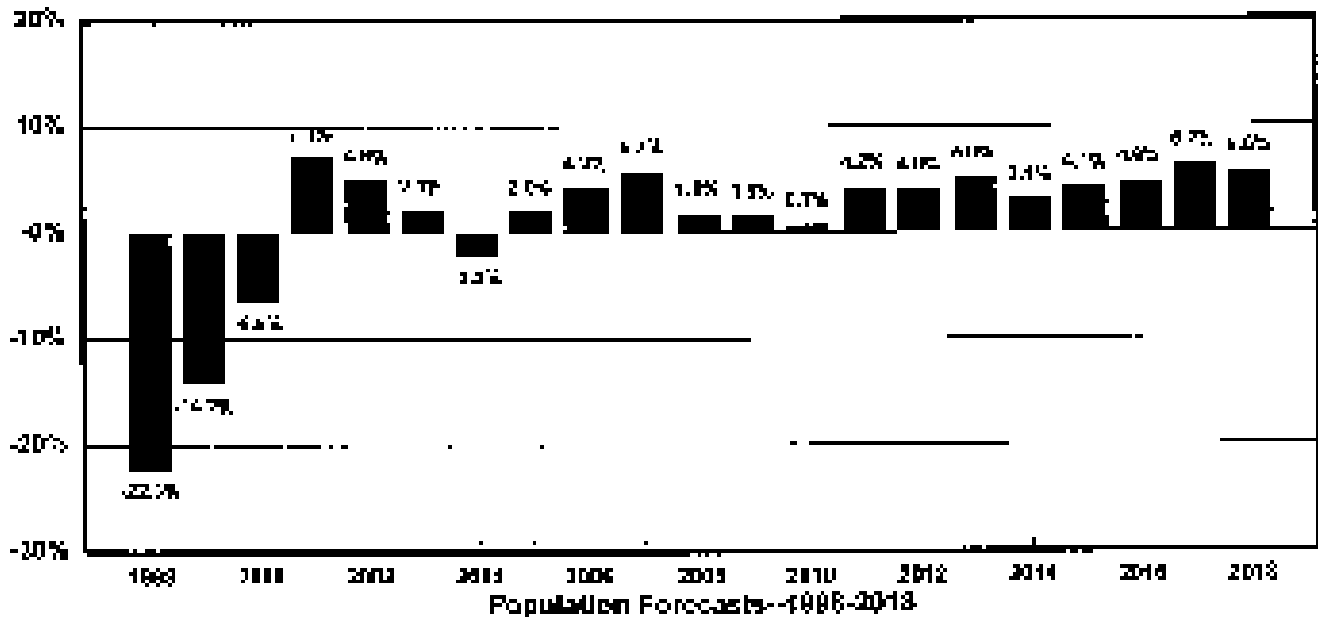


Figure 11. Nevada Statewide Population Forecast Variances from NDWP Modified Forecast

Eureka County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)-July 1st (Persons)

Page 1 of 2

Year	Demographic Estimate and Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population	Retirees and 50+ Modified Barriers	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	897	-	--	0.54%	897	--	--	0.54%
1951	900	3	0.3%	0.54%	900	3	0.33%	0.54%
1952	897	(3)	(0.3)	0.53%	897	(3)	(0.33)	0.53%
1953	900	3	0.3%	0.53%	900	3	0.33%	0.53%
1954	900	0	0.0%	0.53%	900	0	0.0%	0.53%
1955	900	0	0.0%	0.53%	900	0	0.0%	0.53%
1956	1,000	100	11.1%	0.72%	1,000	100	11.1%	0.72%
1957	1,000	0	0.0%	0.70%	1,000	0	0.0%	0.70%
1958	900	(100)	(10.0)	0.53%	900	(100)	(10.0)	0.53%
1959	700	(200)	(22.2)	0.35%	700	(200)	(22.2)	0.35%
1960	775	75	10.7	0.37%	775	75	10.7%	0.37%
1961	800	25	3.2%	0.37%	800	25	3.2%	0.37%
1962	825	25	3.1%	0.37%	825	25	3.0%	0.37%
1963	900	75	9.0%	0.38%	900	75	8.3%	0.38%
1964	811	(89)	(10.0)	0.27%	811	(89)	(10.9)	0.27%
1965	946	135	16.6%	0.25%	946	135	14.5%	0.24%
1966	910	(36)	(4.3)	0.25%	910	(36)	(4.0)	0.25%
1967	782	(128)	(14.0)	0.19%	782	(128)	(16.3)	0.19%
1968	852	70	8.9%	0.20%	852	70	8.2%	0.20%
1969	917	65	7.6%	0.20%	917	65	7.2%	0.19%
1970	938	21	2.3%	0.19%	938	21	2.2%	0.19%
1971	900	(38)	(4.0)	0.17%	900	(38)	(4.2)	0.17%
1972	900	0	0.0%	0.16%	900	0	0.0%	0.16%
1973	1,000	100	11.1%	0.18%	1,000	100	11.1%	0.18%
1974	1,100	100	10.0%	0.18%	1,100	100	10.0%	0.18%
1975	1,100	0	0.0%	0.18%	1,100	0	0.0%	0.18%
1976	1,100	0	0.0%	0.17%	1,100	0	0.0%	0.17%
1977	1,100	0	0.0%	0.16%	1,100	0	0.0%	0.16%
1978	944	(156)	(14.1)	0.13%	944	(156)	(16.3)	0.13%
1979	1,000	56	5.9%	0.13%	1,000	56	5.9%	0.13%
1980	1,103	103	10.3%	0.15%	1,103	103	9.3%	0.15%
1981	1,200	97	8.8%	0.14%	1,200	97	8.0%	0.14%
1982	1,230	30	2.5%	0.14%	1,230	30	2.5%	0.14%
1983	1,250	20	1.6%	0.14%	1,250	20	1.6%	0.14%
1984	1,290	40	3.2%	0.14%	1,290	40	3.1%	0.14%
1985	1,300	10	0.8%	0.14%	1,300	10	0.8%	0.14%
1986	1,350	50	3.8%	0.13%	1,350	50	3.7%	0.13%
1987	1,490	140	10.3%	0.14%	1,490	140	10.3%	0.14%
1988	1,510	20	1.3%	0.14%	1,510	20	1.3%	0.14%
1989	1,730	220	14.6%	0.15%	1,730	220	12.6%	0.15%
1990	1,750	20	1.1%	0.15%	1,750	20	1.1%	0.15%
1991	1,560	(190)	(10.8)	0.12%	1,560	(190)	(11.4)	0.12%
1992	1,580	20	1.3%	0.12%	1,580	20	1.3%	0.12%
1993	1,650	70	4.4%	0.12%	1,650	70	4.4%	0.12%
1994	1,370	(280)	(16.9)	0.10%	1,370	(280)	(20.3)	0.10%
1995	1,530	160	11.7%	0.10%	1,530	160	11.7%	0.10%
1996	1,650	120	7.8%	0.10%	1,650	120	7.3%	0.10%
1997	1,660	10	0.6%	0.10%	1,660	10	0.6%	0.10%
1998	1,700	40	2.4%	0.09%	1,700	40	2.4%	0.09%
1999	2,020	320	18.8%	0.11%	2,020	320	18.8%	0.11%

Eureka County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) - July 1st (Person)

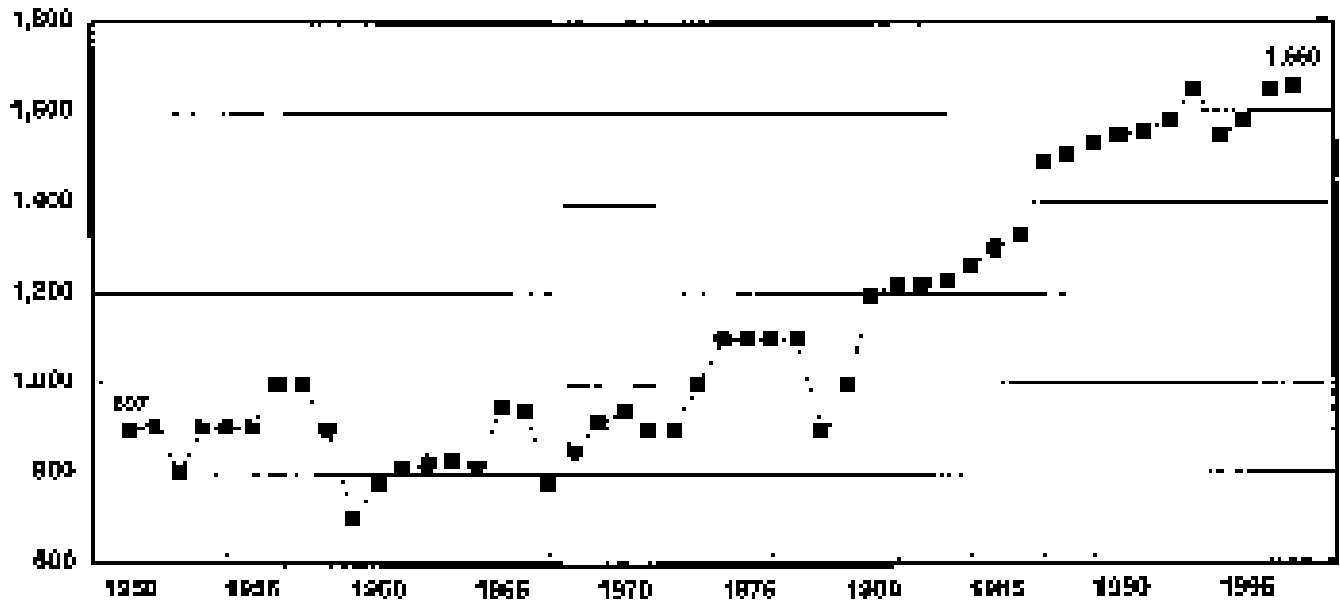
Page 2 of 2

Year	Demographic Estimates and Forecasts	Change in Population (Person)	Percent Change	Share of Total State Population	Estimate and MMAP Modified Forecasts	Change in Population (Person)	Percent Change	Share of Total State Population
2000	2,140	10	-0.44%	0.10%	1,777	36	2.05%	0.09%
2001	2,150	20	0.95%	0.10%	1,815	37	2.06%	0.09%
2002	2,146	25	0.94%	0.10%	1,851	36	2.00%	0.09%
2003	2,156	16	0.75%	0.10%	1,886	25	1.50%	0.09%
2004	2,190	60	2.80%	0.09%	1,930	24	1.30%	0.09%
2005	2,188	(10)	-0.46%	0.09%	1,953	23	1.20%	0.09%
2006	2,225	55	2.52%	0.09%	1,984	21	1.05%	0.09%
2007	2,255	30	1.35%	0.09%	2,014	30	1.50%	0.09%
2008	2,230	30	1.35%	0.09%	2,045	29	1.40%	0.09%
2009	2,230	20	0.90%	0.09%	2,068	27	1.30%	0.09%
2010	2,400	50	2.24%	0.09%	2,097	28	1.33%	0.09%
2011	2,440	40	1.67%	0.09%	2,116	15	1.15%	0.08%
2012	2,540	60	2.42%	0.09%	2,137	21	1.01%	0.08%
2013	2,550	30	1.17%	0.09%	2,157	19	0.90%	0.08%
2014	2,610	50	1.92%	0.08%	2,176	17	0.80%	0.08%
2015	2,690	30	1.12%	0.08%	2,189	15	0.70%	0.08%
2016	2,740	50	1.86%	0.08%	2,202	3	0.14%	0.08%
2017	2,780	50	1.83%	0.08%	2,213	11	0.50%	0.08%
2018	2,830	50	1.80%	0.08%	2,223	5	0.20%	0.08%
2019	-	-	--	-	2,228	2	0.09%	0.08%
2020	-	-	--	-	2,233	4	0.18%	0.07%
Growth Rate Analysis	1950-1997		1.22%					
Average Annual Rate	1944-1960		1.45%					
Off Years by Decade	1965-1970		1.03%					
State Period (Percent)	1975-1980		2.14%					
	1980-1990		2.07%					
	1990-1997		0.95%					
Percent Periods	1998-2018	2.97%	State Demographic			1.40%	MMAP Modified Forecast	
	1998-2020	3.93%				1.90%		
	2000-2018	2.11%				0.90%		

Source: Nevada Census of the State, Demographic Research Office, April 19, 1998; Nevada Division of Water Planning (DWP) County population forecasts based on DWP County Department of Comprehensive Planning forecasts; Nevada County population trends based on forecasts provided by the Nevada County Department of Community Development.

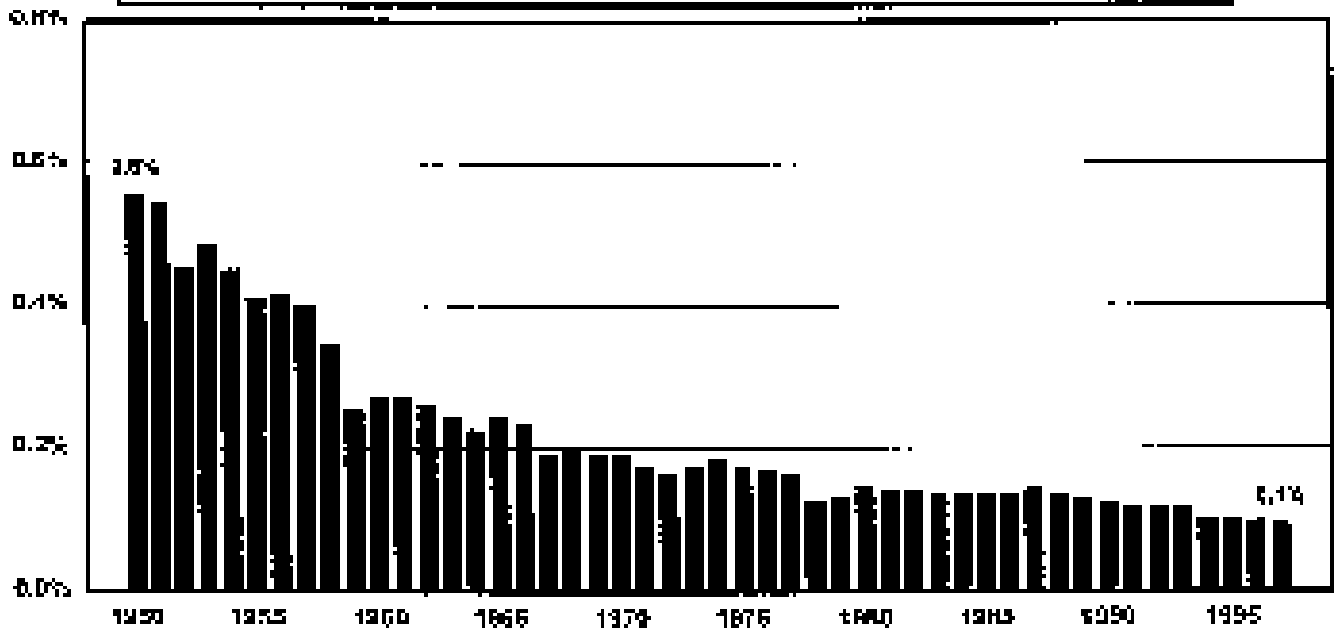
County Population Analysis

Eureka County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Demographer

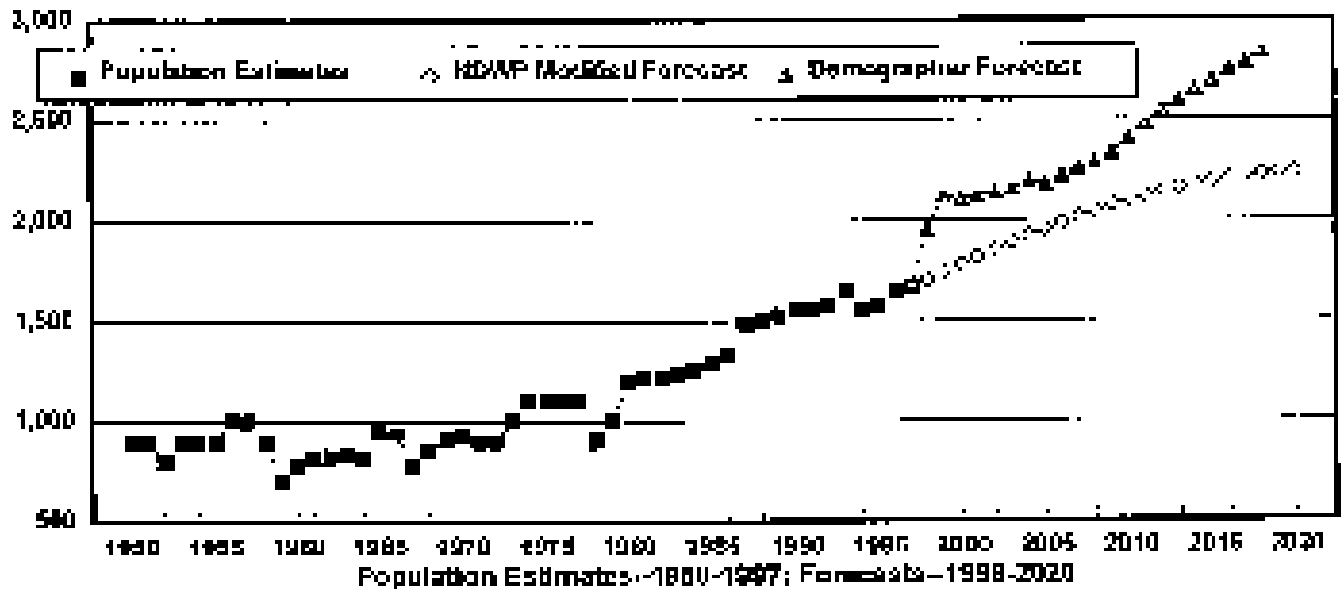
Eureka County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Demographer

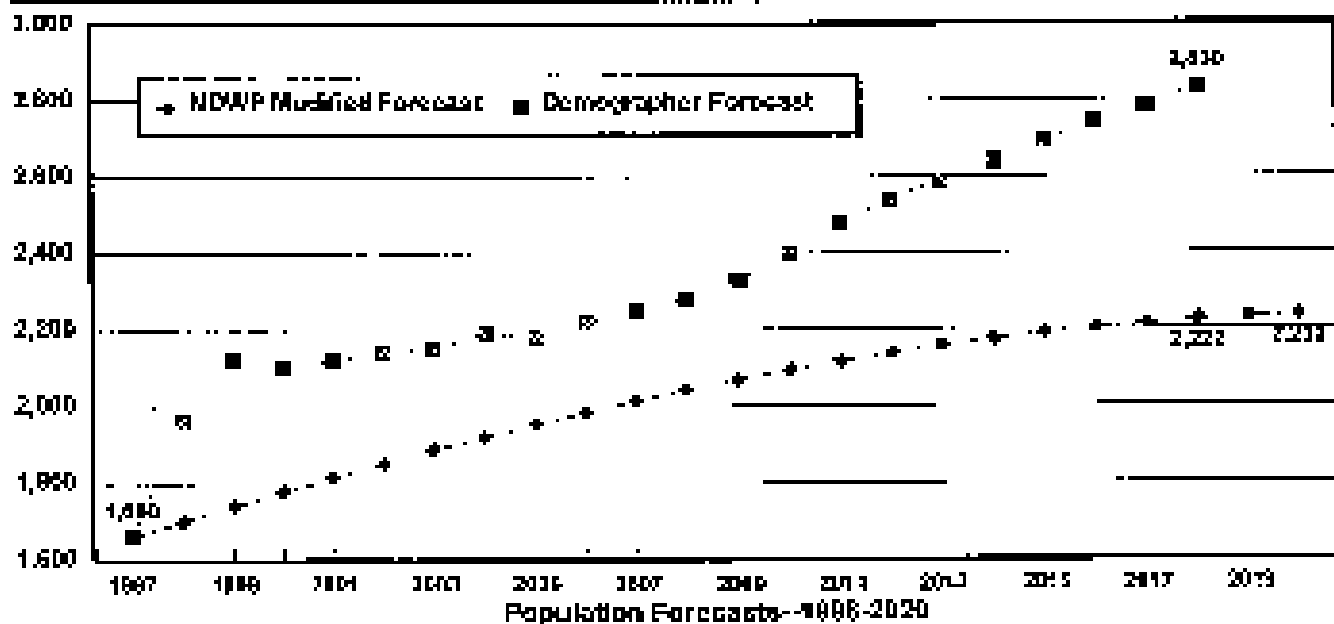
County Population Analysis and Forecasts

Eureka County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning, July 1, 2000

Eureka County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

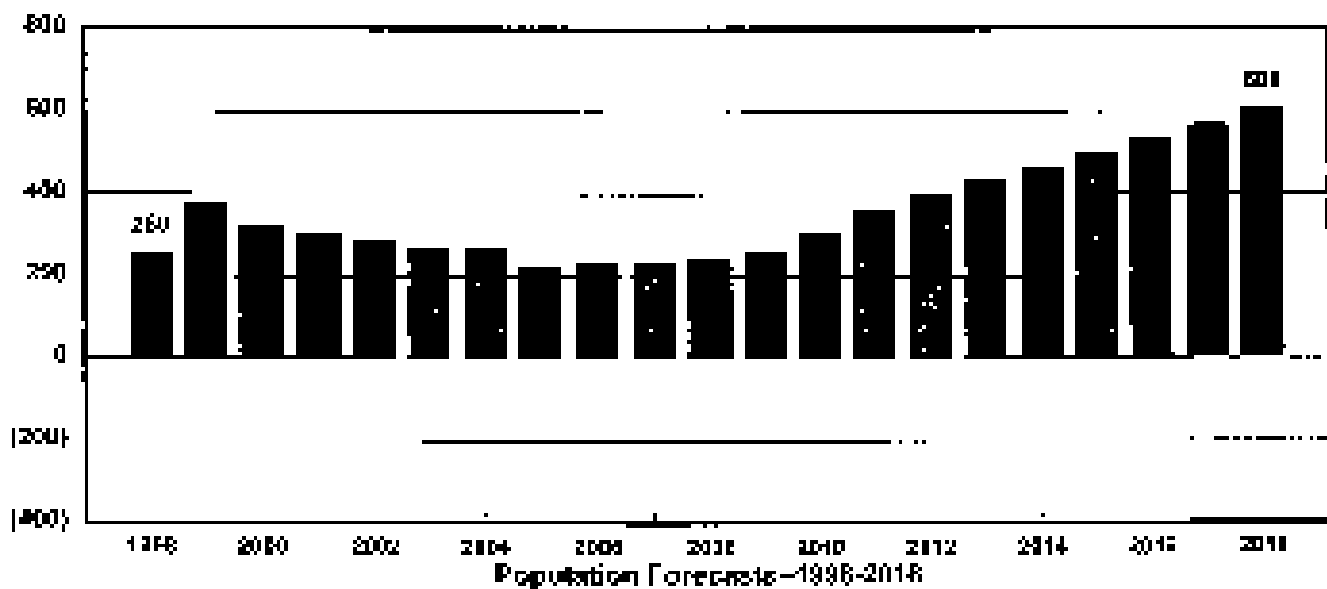


Source: Nevada State Demographer, Nevada Division of Water Planning, July 1, 2000

County Population Forecast Variances

Eureka County Population Forecast Variances

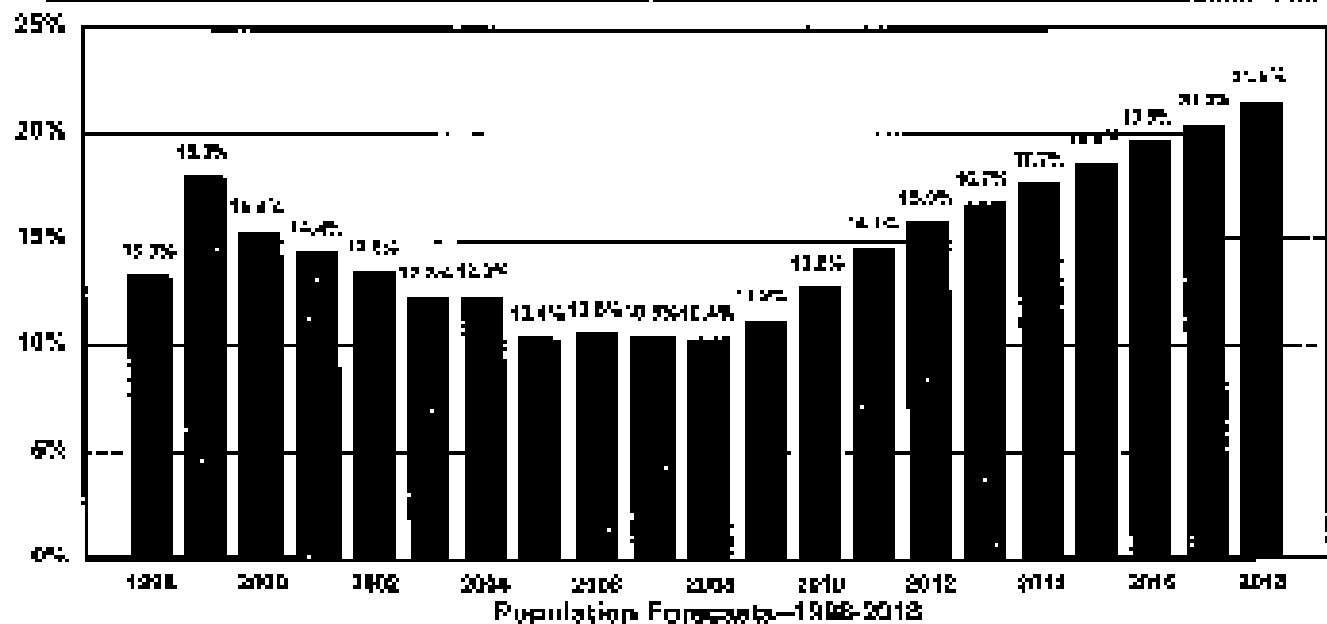
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographic Reports, State of Nevada, Division of Water Planning and Forecasting

Eureka County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographic Reports, State of Nevada, Division of Water Planning and Forecasting

Humboldt County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)--July 1st (Previous)

Page 1 of 2

Year	Demographic Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimated ADRT Modified Parameter	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	4,870	--	--	2.02%	4,870	--	--	2.09%
1951	4,940	70	1.43%	2.03%	4,920	150	2.67%	2.02%
1952	5,100	160	2.02%	2.04%	5,100	100	2.04%	2.06%
1953	5,100	0	0.00%	2.05%	5,100	0	0.00%	2.06%
1954	5,100	0	0.00%	2.06%	5,100	0	0.00%	2.06%
1955	5,200	100	1.95%	2.07%	5,200	100	1.96%	2.06%
1956	5,400	200	3.85%	2.08%	5,400	200	3.85%	2.09%
1957	5,200	(200)	-3.70%	2.10%	5,300	(100)	-1.89%	2.10%
1958	5,300	0	0.00%	2.04%	5,300	0	0.00%	2.04%
1959	5,400	100	1.89%	2.05%	5,400	0	0.00%	2.05%
1960	5,722	322	5.98%	2.06%	5,722	322	5.98%	2.07%
1961	5,782	60	1.05%	2.06%	5,730	60	1.05%	2.07%
1962	5,906	124	2.14%	2.06%	5,800	74	1.28%	2.07%
1963	5,970	64	1.08%	2.07%	5,870	70	1.21%	2.07%
1964	5,836	(134)	-2.24%	2.07%	5,900	(40)	-0.68%	2.07%
1965	6,108	272	4.68%	2.08%	6,170	66	1.08%	2.07%
1966	6,303	195	3.19%	2.08%	6,350	185	2.96%	2.08%
1967	6,350	47	0.75%	2.08%	6,300	(50)	-0.79%	2.08%
1968	6,300	(50)	-0.79%	2.08%	6,350	(50)	-0.79%	2.07%
1969	6,520	220	3.49%	2.08%	6,350	0	0.00%	2.07%
1970	6,380	(140)	-2.15%	2.08%	6,380	30	0.47%	2.07%
1971	6,400	20	0.31%	2.08%	6,400	20	0.31%	2.07%
1972	6,600	200	3.13%	2.09%	6,600	200	3.13%	2.07%
1973	6,800	200	3.03%	2.09%	6,800	200	3.03%	2.07%
1974	7,000	200	2.94%	2.09%	7,000	200	2.94%	2.07%
1975	7,400	400	5.71%	2.09%	7,400	400	5.71%	2.08%
1976	7,400	0	0.00%	2.09%	7,400	0	0.00%	2.08%
1977	7,600	200	2.70%	2.10%	7,600	200	2.70%	2.08%
1978	7,900	300	3.95%	2.10%	7,900	300	3.95%	2.08%
1979	8,500	600	7.60%	2.12%	8,500	600	7.60%	2.08%
1980	9,440	940	11.06%	2.13%	9,440	940	11.06%	2.08%
1981	10,120	680	7.20%	2.13%	10,300	180	1.76%	2.08%
1982	10,520	400	3.95%	2.13%	10,900	380	3.50%	2.08%
1983	10,980	460	4.37%	2.13%	10,960	60	0.55%	2.08%
1984	11,190	210	1.91%	2.13%	11,190	230	2.06%	2.08%
1985	11,260	70	0.62%	2.13%	11,260	70	0.62%	2.08%
1986	11,200	(60)	-0.53%	2.13%	11,200	(60)	-0.53%	2.08%
1987	11,490	290	2.59%	2.13%	11,490	290	2.59%	2.08%
1988	12,050	560	4.87%	2.13%	12,050	560	4.87%	2.08%
1989	12,380	330	2.74%	2.13%	12,380	330	2.74%	2.08%
1990	13,020	640	5.20%	2.13%	13,020	640	5.20%	2.08%
1991	13,300	280	2.15%	2.14%	13,300	280	2.15%	2.08%
1992	13,600	300	2.25%	2.14%	14,000	400	2.94%	2.08%
1993	14,320	720	5.29%	2.14%	14,320	320	2.24%	2.08%
1994	15,070	750	5.23%	2.14%	15,070	750	5.23%	2.08%
1995	16,200	1,130	7.50%	2.14%	16,200	1,130	7.50%	2.08%
1996	16,450	250	1.54%	2.14%	16,450	250	1.54%	2.08%
1997	17,580	1,130	6.87%	2.14%	17,580	1,130	6.87%	2.08%
1998	18,190	610	3.47%	2.14%	18,190	610	3.47%	2.08%
1999	18,810	620	3.41%	2.14%	18,810	620	3.41%	2.08%

Humboldt County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) - July 1st (Persons)

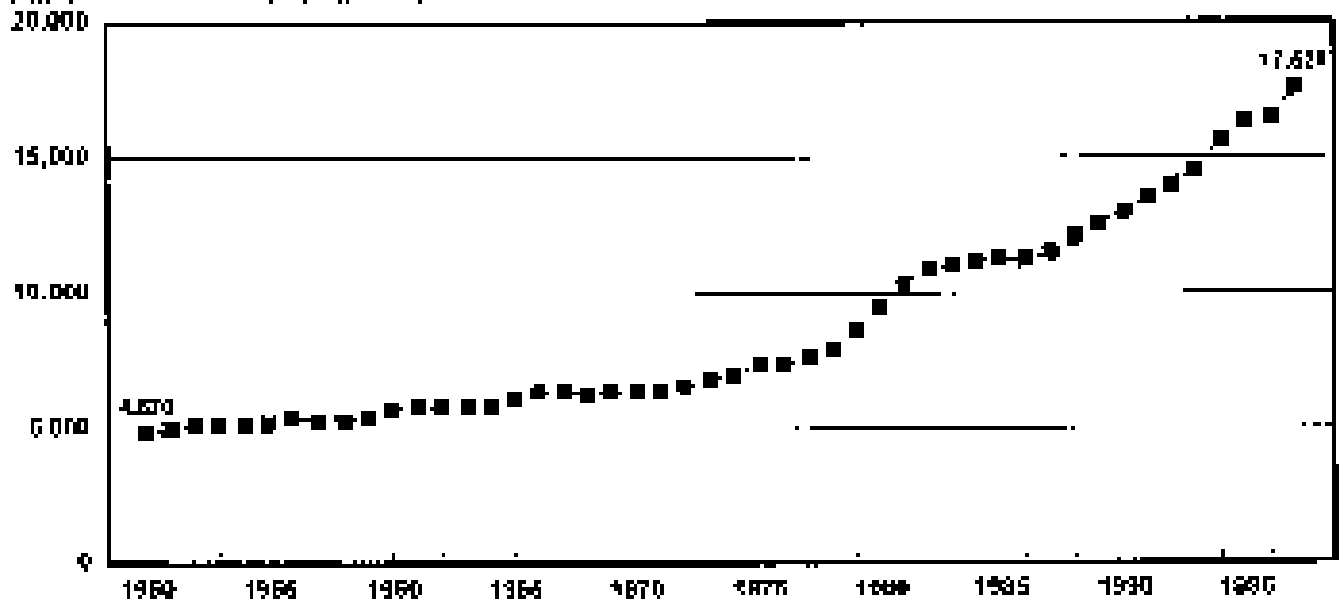
Year	Population Estimate and Forecast	Change in Population (Person)	Percent Change in Population	Share of Total State Population	Estimate and NDWP Model Forecast	Change in Population (Person)	Percent Change in Population	Share of Total State Population
2000	18,320	510	2.71%	0.93%	18,300	455	2.46%	0.93%
2001	18,530	210	1.10%	0.93%	19,111	446	2.30%	0.91%
2002	18,130	-400	-2.10%	0.92%	19,382	438	2.26%	0.92%
2003	18,320	190	0.99%	0.94%	20,207	428	2.17%	0.92%
2004	18,600	280	1.32%	0.95%	20,821	418	2.07%	0.91%
2005	18,790	190	0.98%	0.95%	21,554	406	1.97%	0.90%
2006	18,940	150	0.70%	0.95%	21,427	364	1.87%	0.89%
2007	19,190	250	0.97%	0.95%	21,605	190	1.78%	0.88%
2008	19,450	260	1.0%	0.95%	22,174	566	1.88%	0.88%
2009	19,860	410	2.06%	0.91%	22,124	260	1.58%	0.87%
2010	20,210	350	1.57%	0.87%	22,558	434	1.48%	0.87%
2011	20,750	540	2.49%	0.90%	23,174	617	1.95%	0.89%
2012	21,190	440	2.09%	0.91%	23,121	205	1.20%	0.89%
2013	21,590	400	1.86%	0.90%	23,752	269	1.10%	0.89%
2014	21,970	380	1.5%	0.90%	24,012	250	1.04%	0.89%
2015	22,190	220	0.99%	0.90%	24,251	259	1.00%	0.89%
2016	22,350	160	0.68%	0.90%	24,488	215	0.90%	0.89%
2017	22,690	340	1.48%	0.91%	24,664	196	0.80%	0.89%
2018	22,850	160	0.69%	0.91%	24,817	175	0.70%	0.89%
2019	-	-	-	-	24,987	150	0.61%	0.89%
2020	-	-	-	-	25,114	127	0.51%	0.89%
Growth Rate (Average)	1950-1997		2.70%					
Average Annual Rate of Change (Average)	1950-1997		1.67%					
Long-Term (Average)	1975-1997		1.07%					
	1987-1997		3.20%					
	1997-2007		4.14%					
Forecast Period:	1998-2015		1.79%	State Metropolitan		1.08%	NDWP Model Forecast	
	1998-2008		1.40%			1.16%		
	2008-2018		1.49%			1.19%		

Source: Nevada Office of the State Demographer (annual estimates April 11, 1998), Nevada Division of Water (annual Clark County population forecasts based on Clark County Department of Community Planning records), Washoe County population forecasts based on records maintained by the Washoe County Department of Community Development.

County Population Analysis

Humboldt County Population Estimates & Forecasts

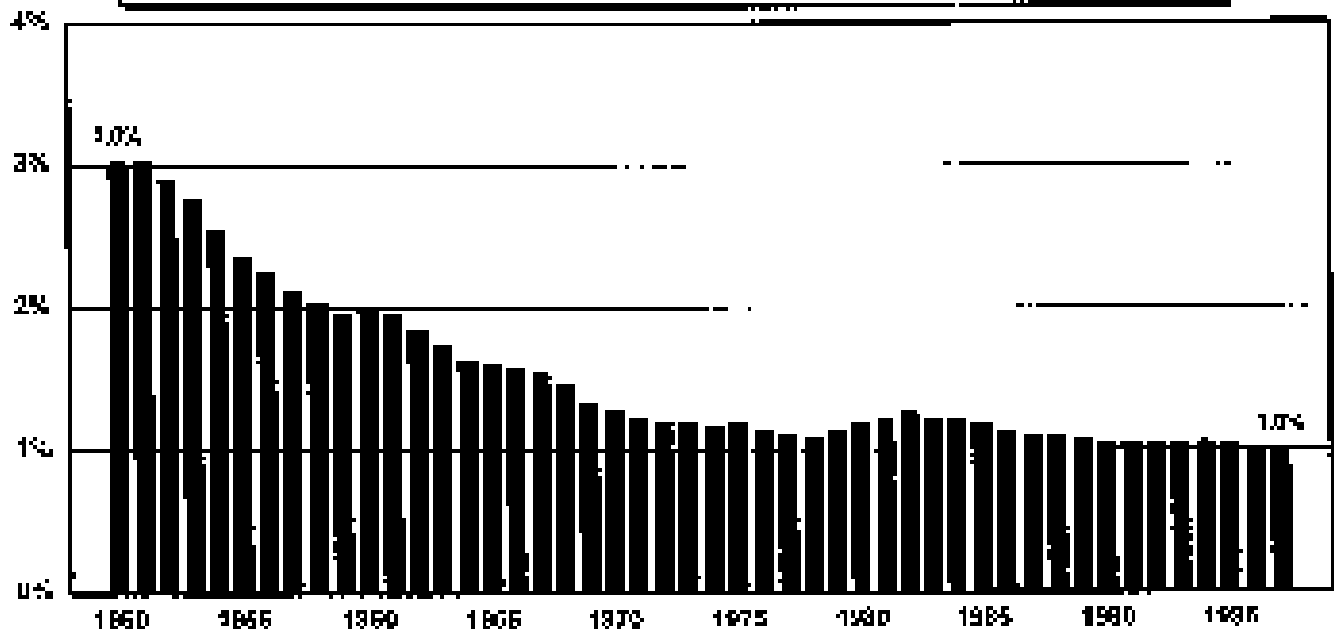
Population Estimates as of July 1 (Persons)



Source: Nevada State Demographer

Humboldt County Population Shares

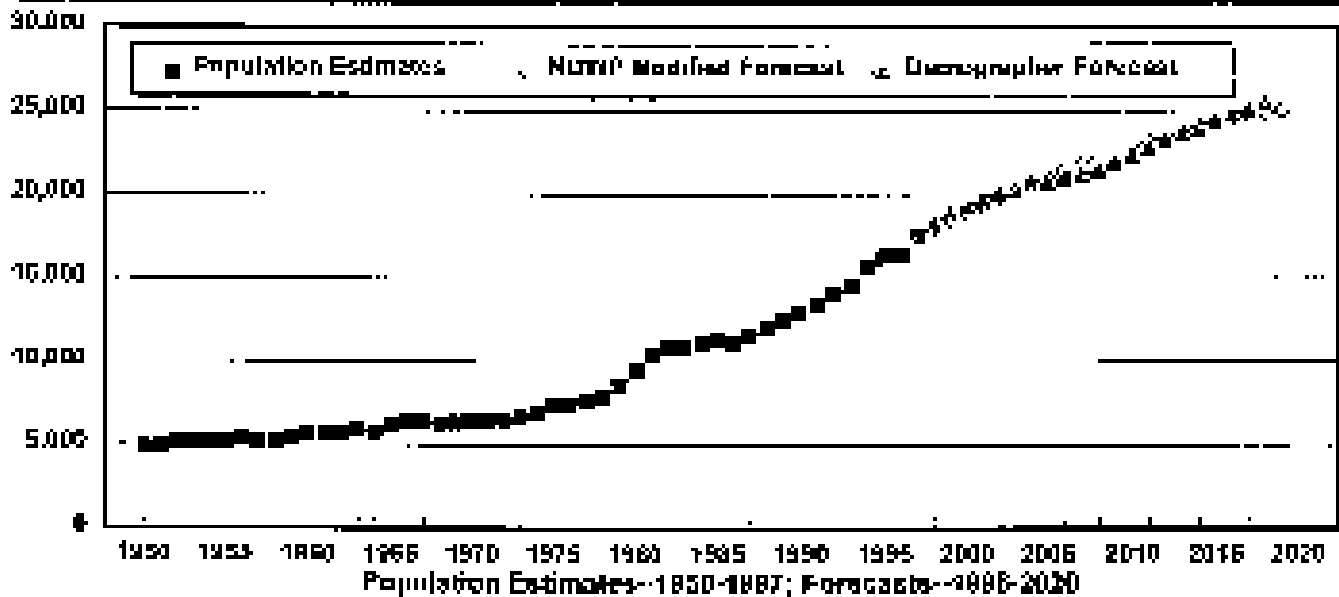
County Share of Total State Population (Percent)



Source: Nevada State Demographer

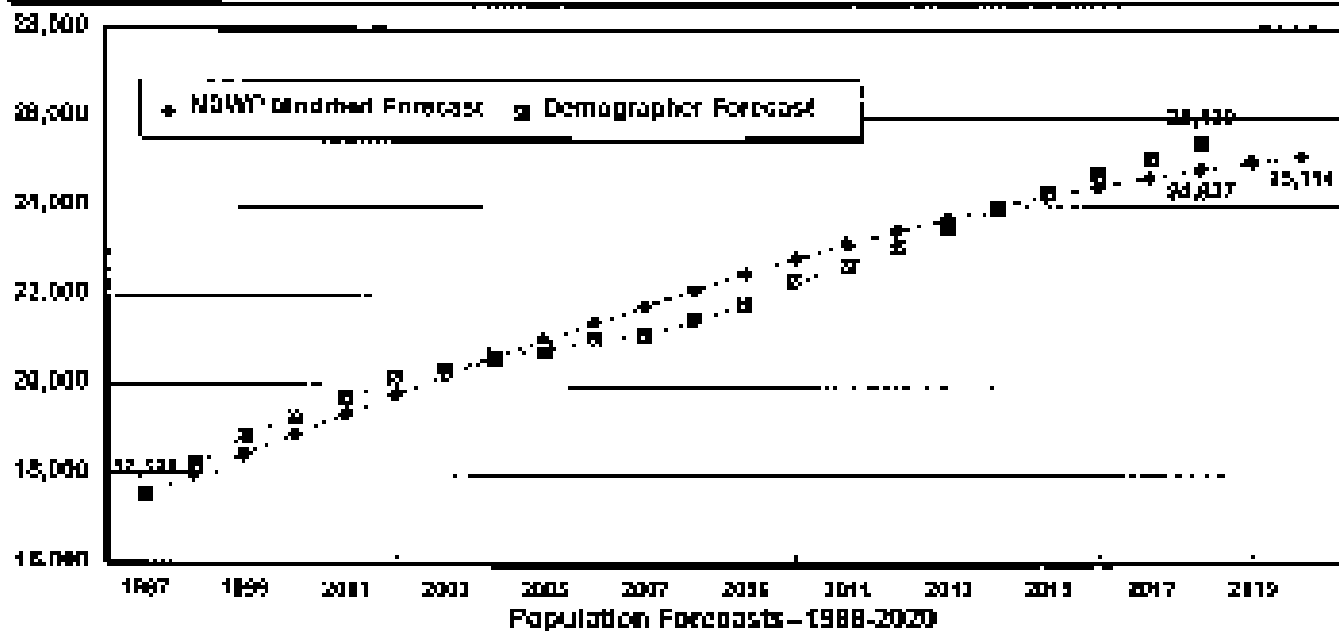
County Population Analysis and Forecasts

Humboldt County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada Statewide Planning Agency, 1998.

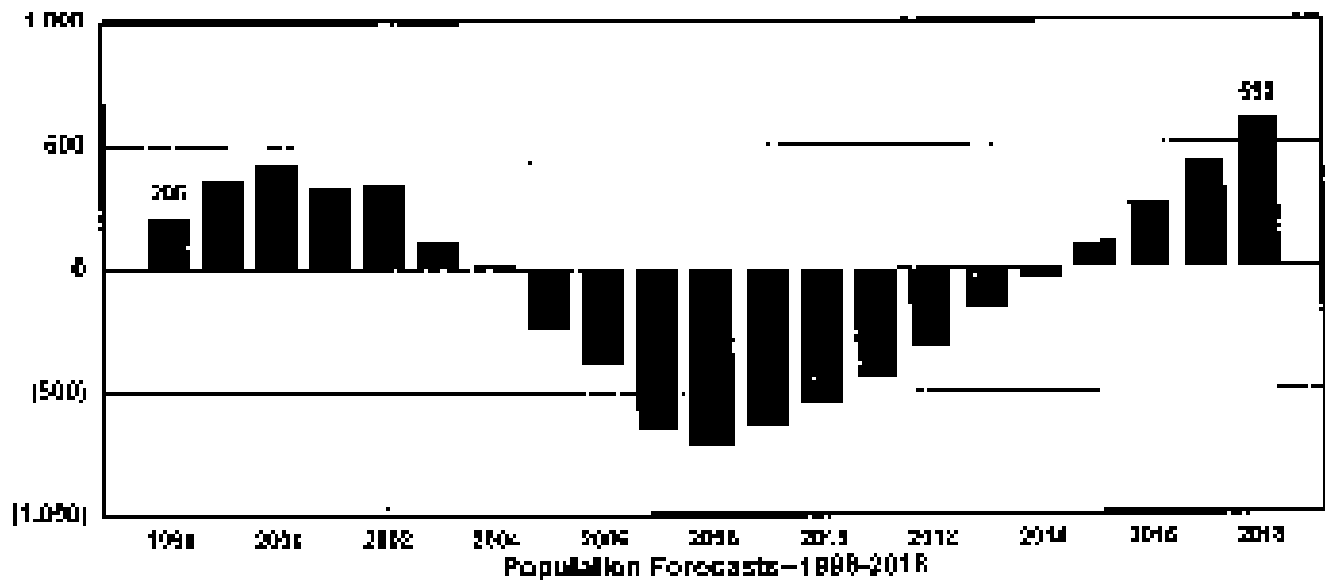
Humboldt County Population Forecast Comparisons State Demographer and NDWP Modified--July 1 (Persons)



Source: Nevada State Demographer, Nevada Statewide Planning Agency, 1998.

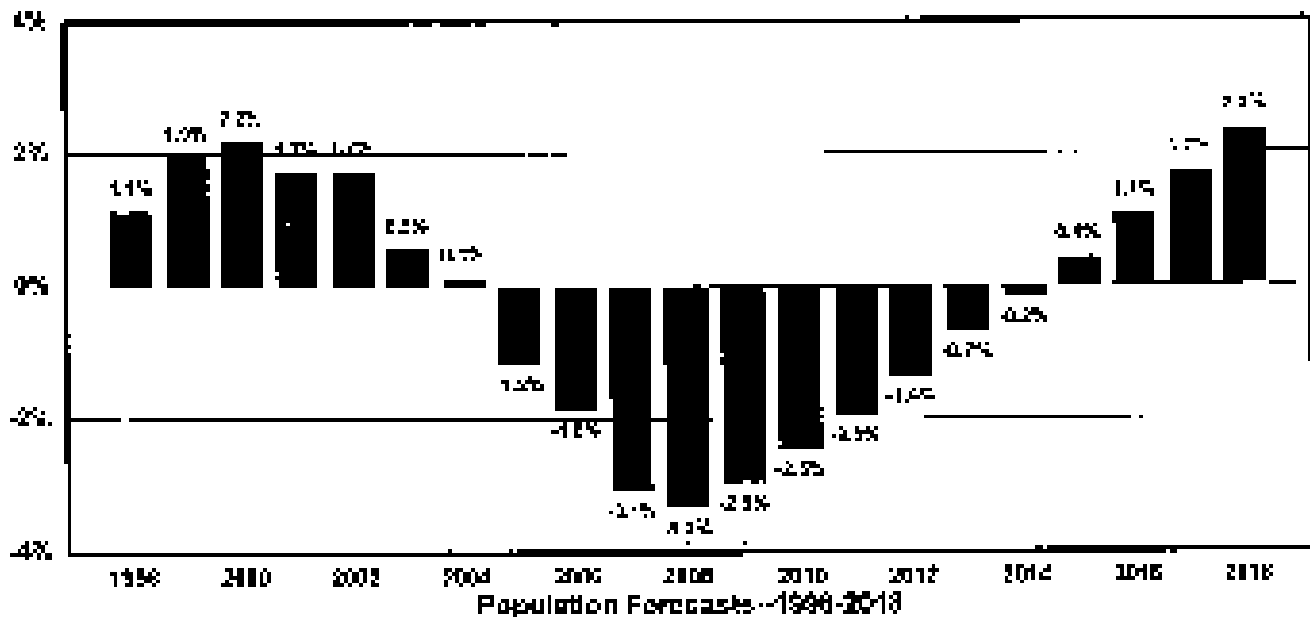
County Population Forecast Variances

Humboldt County Population Forecast Variances Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographic, Planning and Research Center, 2018

Humboldt County Population Forecast Variances Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographic, Planning and Research Center, 2018

Lander County Population Estimates & Forecasts

Population Estimates (1956-1997) and Forecasts (1998-2020)—July 1st (Percent)

Page 1 of 2

Year	Demographic Estimate and Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change County	Share of Total State Population	Estimate and MHWI Modified Percent	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population
1950	1,850	--	--	0.15%	1,850	--	--	0.15%
1951	1,900	40	2.15%	0.15%	1,900	40	2.15%	0.15%
1952	1,900	0	0.00%	0.08%	1,900	0	0.00%	0.08%
1953	1,800	(100)	-5.26%	0.08%	1,800	(100)	-5.26%	0.08%
1954	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1955	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1956	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1957	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1958	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1959	1,800	0	0.00%	0.08%	1,800	0	0.00%	0.08%
1960	1,500	(300)	-16.67%	0.07%	1,700	(200)	-11.11%	0.07%
1961	1,500	(120)	-7.06%	0.07%	1,580	(120)	-7.06%	0.07%
1962	1,632	85	5.44%	0.07%	1,632	85	5.44%	0.07%
1963	1,667	30	1.83%	0.07%	1,667	30	1.83%	0.07%
1964	1,688	21	1.26%	0.07%	1,688	21	1.26%	0.07%
1964	1,523	(14)	-0.91%	0.07%	1,479	(16)	-1.07%	0.07%
1965	1,637	210	13.82%	0.07%	2,058	420	20.51%	0.07%
1966	2,211	570	34.85%	0.07%	2,211	150	7.31%	0.07%
1967	2,387	170	7.69%	0.07%	2,387	170	7.69%	0.07%
1968	2,451	(12)	-0.49%	0.07%	2,451	(12)	-0.49%	0.07%
1969	2,517	164	6.67%	0.07%	2,517	164	6.67%	0.07%
1970	2,637	88	3.51%	0.07%	2,588	48	1.85%	0.07%
1971	2,600	(37)	-1.40%	0.07%	2,600	(37)	-1.40%	0.07%
1972	2,700	100	3.85%	0.07%	2,700	100	3.85%	0.07%
1973	2,700	0	0.00%	0.07%	2,700	0	0.00%	0.07%
1974	2,800	100	3.70%	0.07%	2,800	100	3.70%	0.07%
1975	3,000	200	7.14%	0.07%	3,000	200	7.14%	0.07%
1976	3,200	200	6.67%	0.07%	3,200	200	6.67%	0.07%
1977	3,300	100	3.12%	0.07%	3,300	100	3.12%	0.07%
1978	3,400	200	6.06%	0.07%	3,500	200	6.06%	0.07%
1979	3,600	100	2.94%	0.07%	3,600	100	2.94%	0.07%
1980	4,076	470	12.22%	0.07%	4,076	470	12.22%	0.07%
1981	5,070	994	22.91%	0.07%	5,070	994	22.91%	0.07%
1982	5,000	(70)	-1.38%	0.07%	5,000	(70)	-1.38%	0.07%
1983	4,700	(300)	-6.00%	0.07%	4,700	(300)	-6.00%	0.07%
1984	4,500	(200)	-4.26%	0.07%	4,500	(200)	-4.26%	0.07%
1985	4,500	(0)	0.00%	0.07%	4,500	(0)	0.00%	0.07%
1986	4,510	10	0.22%	0.07%	4,510	(10)	-0.22%	0.07%
1987	4,600	90	2.00%	0.07%	4,600	90	2.00%	0.07%
1988	5,180	580	12.61%	0.07%	5,180	580	12.61%	0.07%
1989	6,170	990	14.42%	0.07%	6,270	100	1.62%	0.07%
1990	6,370	70	1.13%	0.07%	6,370	70	1.12%	0.07%
1991	6,270	(90)	-1.41%	0.07%	6,370	90	1.42%	0.07%
1992	6,380	10	0.16%	0.07%	6,280	(10)	-0.16%	0.07%
1993	6,450	70	1.10%	0.07%	6,430	(20)	-0.31%	0.07%
1994	6,410	(40)	-0.62%	0.07%	6,410	(0)	0.00%	0.07%
1995	6,480	70	1.09%	0.07%	6,440	(40)	-0.62%	0.07%
1996	6,710	230	3.55%	0.07%	6,710	270	4.08%	0.07%
1997	7,080	370	5.51%	0.07%	7,050	(30)	-0.43%	0.07%
1998	7,170	90	1.27%	0.07%	7,097	(73)	-1.03%	0.07%
1999	7,300	130	1.82%	0.07%	7,167	(133)	-1.84%	0.07%

Lander County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2018)—July 1st (Parameter)

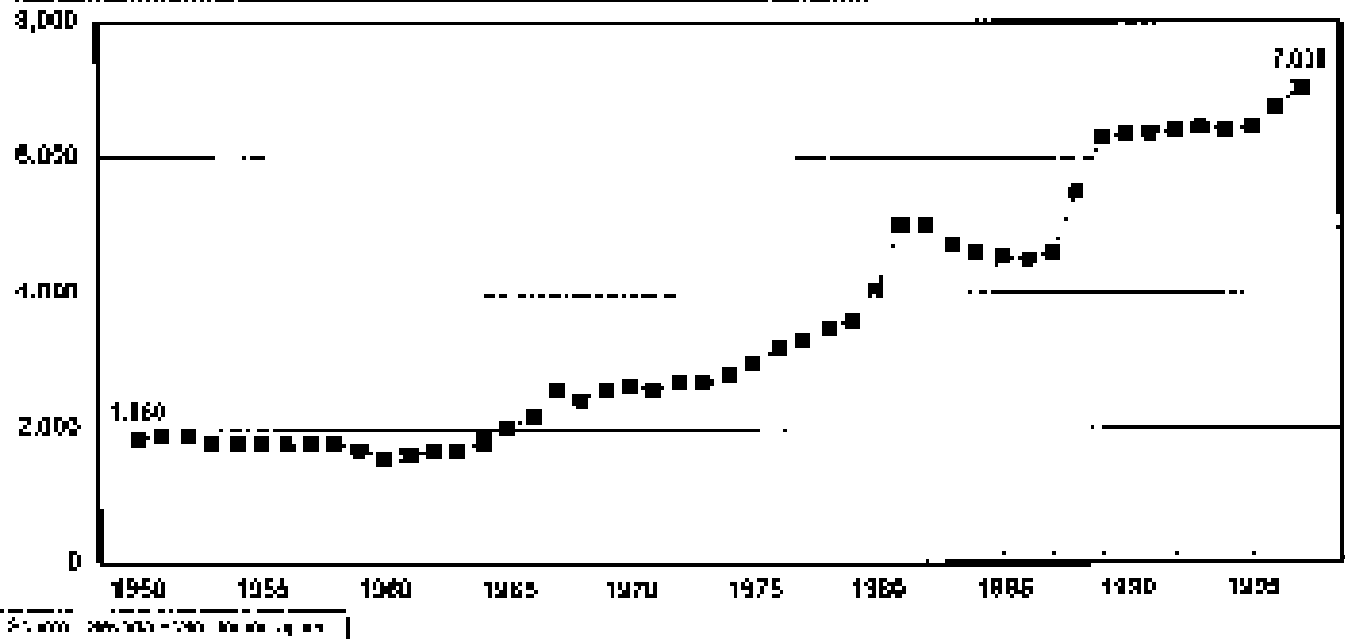
Page 1 of 3

Year	Demographic Estimate and Forecast	Change in Population (Persons)	1950-1997		Estimate and Forecast Modified Increases		Change in Population (% Ann)	1998-2018	
			Percent Change	Share of Total Population	Percent Change	Share of Total Population		Percent Change	Share of Total Population
1950	7,210	120	1.68%	0.35%	7,236	50	0.69%	0.36%	
1951	7,271	61	0.85%	0.07%	7,387	61	0.84%	0.35%	
1952	7,462	191	2.65%	0.59%	7,575	53	0.71%	0.34%	
1953	7,362	0	0.00%	0.34%	7,403	26	0.35%	0.34%	
1954	7,577	215	2.91%	0.21%	7,454	53	0.72%	0.33%	
1955	7,582	41	0.54%	0.33%	7,503	51	0.68%	0.32%	
1956	8,220	638	8.43%	0.27%	7,577	63	0.84%	0.31%	
1957	8,212	0	0.00%	0.25%	7,596	64	0.86%	0.31%	
1958	8,205	0	0.00%	0.31%	7,640	44	0.58%	0.30%	
1959	8,311	106	1.29%	0.31%	7,680	40	0.52%	0.30%	
1960	8,419	108	1.28%	0.28%	7,717	37	0.48%	0.29%	
1961	8,460	41	0.49%	0.30%	7,721	34	0.44%	0.29%	
1962	8,530	70	0.83%	0.29%	7,782	31	0.40%	0.28%	
1963	8,620	90	1.05%	0.29%	7,810	28	0.36%	0.28%	
1964	8,730	110	1.27%	0.28%	7,835	25	0.32%	0.28%	
1965	8,820	90	1.03%	0.28%	7,877	22	0.28%	0.27%	
1966	8,920	100	1.14%	0.27%	7,876	19	0.24%	0.27%	
1967	9,060	140	1.55%	0.25%	7,892	16	0.20%	0.27%	
1968	9,190	130	1.43%	0.25%	7,904	13	0.16%	0.27%	
1969	—	—	—	—	7,931	9	0.12%	0.26%	
1970	—	—	—	—	7,936	6	0.08%	0.26%	
Growth Rate Analysis:		1950-1997	2.87%						
Average Annual Rate:		1950-1962	-1.63%						
% Change by Decade:		1950-1970	5.52%						
1970-1980		4.39%							
1980-1990		1.52%							
1990-1997		1.49%							
Forecast Periods:		1998-2018	1.27% State Demographer		0.58% NIDWR Marshall Forecast				
		1998-2008	1.41%		0.76%				
		2009-2018	1.12%		0.56%				

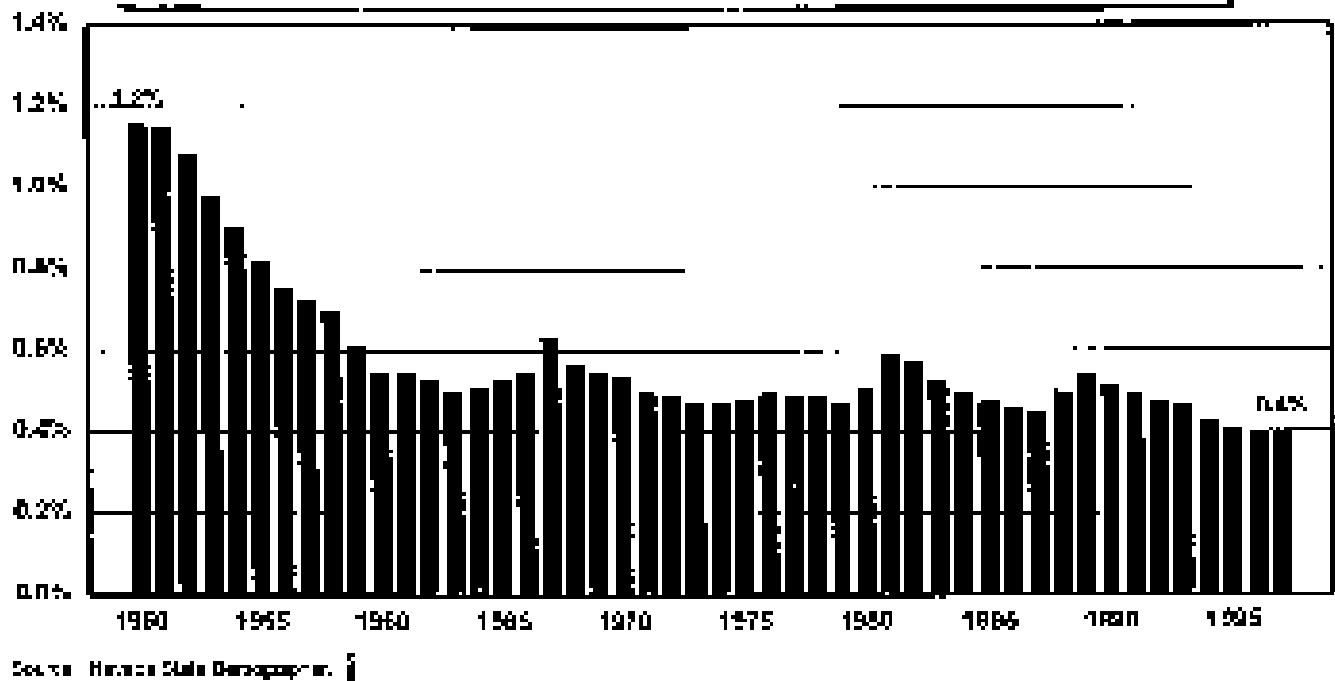
Source: Nevada Office of the State Demographer, Nevada Census April 13, 1990; Nevada Division of Water Planning (Lander County population increase based on Clark County Department of Commerce and Planning forecasts); Lander County population forecasts based on forecasts provided by the Lander County Department of Community Development.

County Population Analysis

Lander County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)

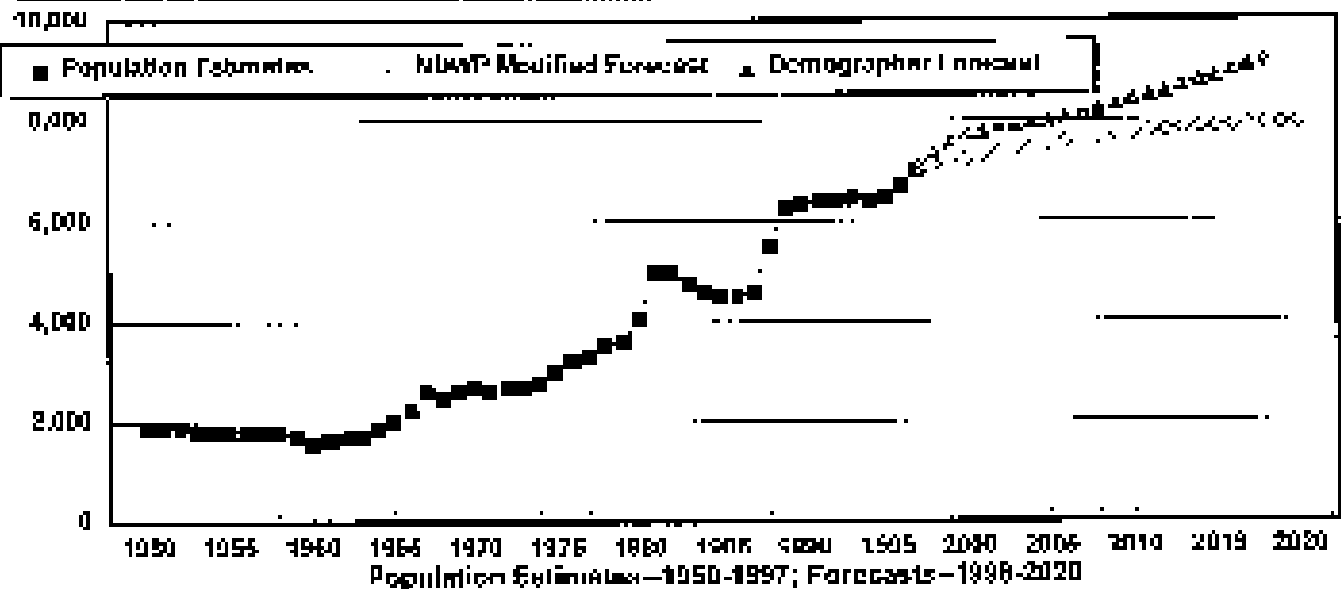


Lander County Population Shares County Share of Total State Population (Percent)



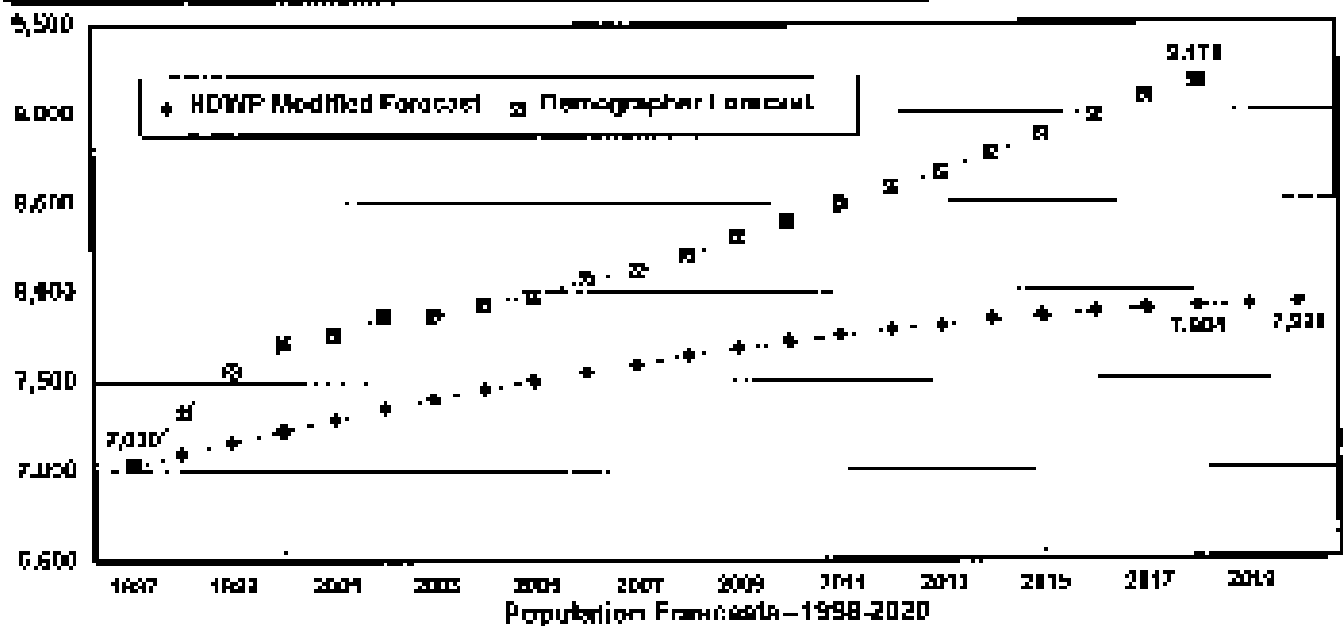
County Population Analysis and Forecasts

Lander County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada State Water Planning and Policy Center

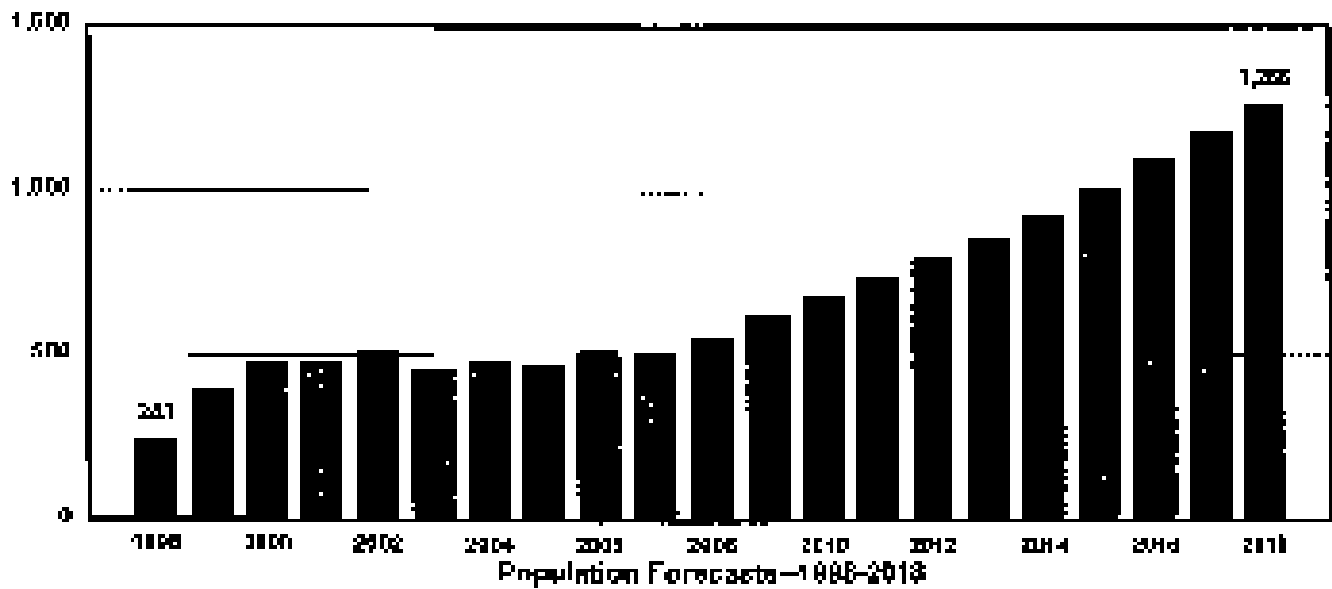
Lander County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Nevada State Demographer, Nevada State Water Planning and Policy Center

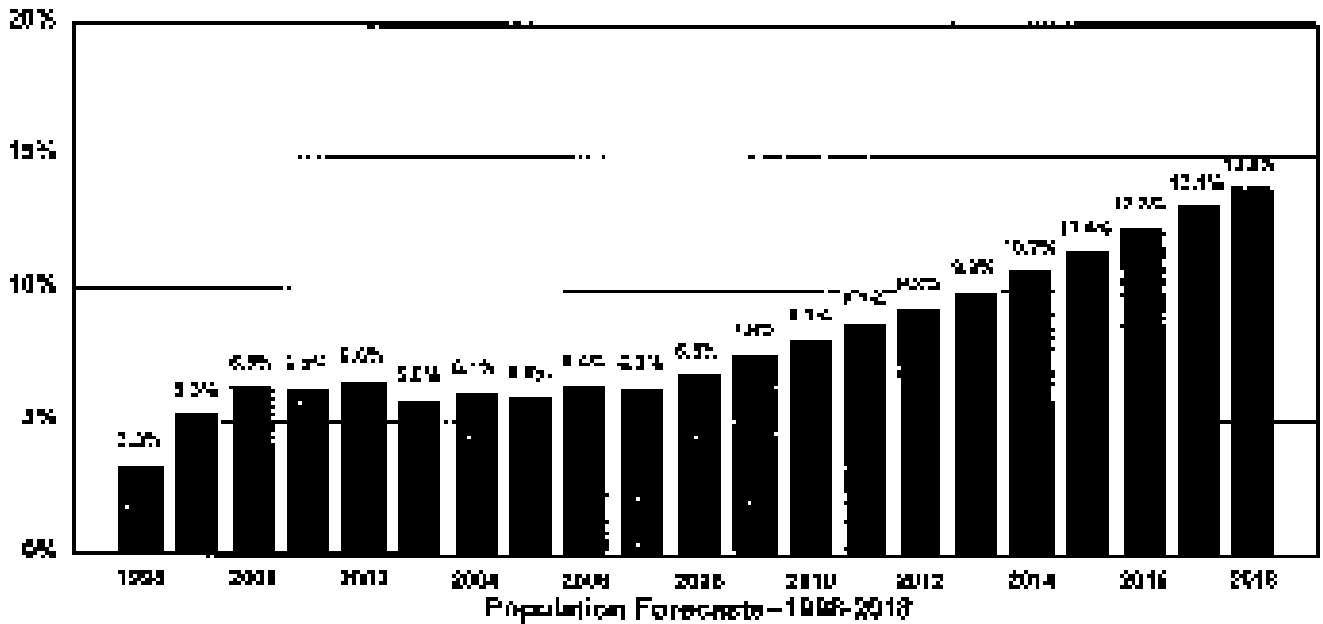
County Population Forecast Variances

Lander County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer and Nevada Division of Water Planning modified forecast.

Lander County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer and Nevada Division of Water Planning modified forecast.

Lincoln County Population Estimates & Forecasts

Population Estimates (1951-1997) and Forecasts (1998-2020) - July 1st (Persons)

Year	Demographic Estimate and Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population	Estimated and 2007 Modified Forecasts	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	3,230	-	-	2.59%	3,550	-	-	2.59%
1951	3,290	50	1.55%	2.64%	3,900	50	1.52%	2.54%
1952	3,300	0	0.03%	2.22%	3,900	0	0.00%	2.22%
1953	3,400	0	0.00%	2.14%	3,900	0	0.00%	2.14%
1954	3,400	(100)	-2.94%	1.97%	1,800	(120)	-2.50%	1.94%
1955	3,500	100	2.94%	1.77%	2,700	100	2.67%	1.77%
1956	3,400	(100)	-2.86%	1.58%	2,800	(100)	-2.50%	1.58%
1957	3,500	0	0.00%	1.52%	2,800	0	0.00%	1.52%
1958	3,500	(100)	-2.86%	1.45%	2,700	(100)	-2.67%	1.45%
1959	3,500	100	2.94%	1.37%	2,800	100	2.70%	1.37%
1960	2,374	(1,127)	-27.42%	0.82%	2,000	(1,427)	-37.42%	0.82%
1961	2,194	(240)	-9.00%	0.75%	2,194	(214)	-6.60%	0.75%
1962	2,149	(25)	-1.14%	0.68%	2,149	(24)	-1.15%	0.68%
1963	2,113	(27)	-1.26%	0.63%	2,113	(27)	-1.26%	0.63%
1964	2,078	(75)	-3.55%	0.57%	2,033	(75)	-3.55%	0.57%
1965	2,107	121	0.58%	0.56%	2,107	124	3.58%	0.56%
1966	2,358	256	10.92%	0.59%	2,098	(256)	-10.92%	0.59%
1967	2,300	(87)	-3.69%	0.57%	2,315	(82)	-3.49%	0.57%
1968	2,324	13	0.57%	0.54%	2,324	12	0.52%	0.54%
1969	2,454	130	5.14%	0.51%	2,454	100	5.14%	0.51%
1970	2,524	70	2.93%	0.51%	2,520	(4)	-0.16%	0.51%
1971	2,500	(15)	-0.94%	0.48%	2,400	(120)	-4.80%	0.46%
1972	2,596	(100)	-4.17%	0.42%	2,500	(100)	-4.17%	0.42%
1973	2,400	(196)	-7.55%	0.42%	2,400	100	4.17%	0.42%
1974	2,400	100	4.17%	0.38%	2,500	100	4.17%	0.42%
1975	2,800	300	12.00%	0.42%	2,800	300	12.00%	0.35%
1976	2,900	100	3.57%	0.43%	2,900	100	3.57%	0.43%
1977	3,000	100	3.45%	0.44%	3,000	100	3.45%	0.44%
1978	3,100	100	10.00%	0.47%	3,100	400	13.33%	0.47%
1979	3,500	200	6.45%	0.47%	3,500	100	3.18%	0.47%
1980	3,500	100	2.86%	0.47%	3,352	(148)	-4.23%	0.47%
1981	3,760	260	7.43%	0.47%	3,760	26	0.70%	0.47%
1982	3,700	(60)	-1.62%	0.45%	3,700	10	0.27%	0.45%
1983	3,740	(40)	-1.07%	0.42%	3,700	(110)	-2.97%	0.42%
1984	3,700	(40)	-1.07%	0.41%	3,700	10	0.27%	0.41%
1985	3,750	10	0.27%	0.40%	3,750	10	0.27%	0.40%
1986	3,750	0	0.00%	0.38%	3,750	0	0.00%	0.38%
1987	3,750	10	0.27%	0.37%	3,700	(50)	-1.33%	0.37%
1988	3,800	10	0.27%	0.35%	3,800	10	0.26%	0.35%
1989	3,800	0	0.00%	0.34%	3,800	0	0.00%	0.34%
1990	3,810	10	0.26%	0.34%	3,820	10	0.26%	0.34%
1991	3,370	(440)	-11.55%	0.30%	3,820	50	1.31%	0.30%
1992	4,080	310	9.32%	0.31%	4,080	210	5.12%	0.30%
1993	4,130	50	1.23%	0.30%	4,130	60	1.23%	0.30%
1994	4,130	100	2.42%	0.29%	4,200	190	4.50%	0.29%
1995	4,110	(20)	-0.48%	0.28%	4,110	(210)	-4.80%	0.28%
1996	4,320	(210)	-5.11%	0.24%	4,320	(20)	-0.46%	0.24%
1997	4,110	(210)	-4.80%	0.23%	4,110	(20)	-0.49%	0.23%
1998	4,210	100	2.43%	0.23%	4,210	20	0.48%	0.23%
1999	4,280	70	1.66%	0.22%	4,280	10	0.24%	0.22%

Lincoln County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020), July 1st (Persons)

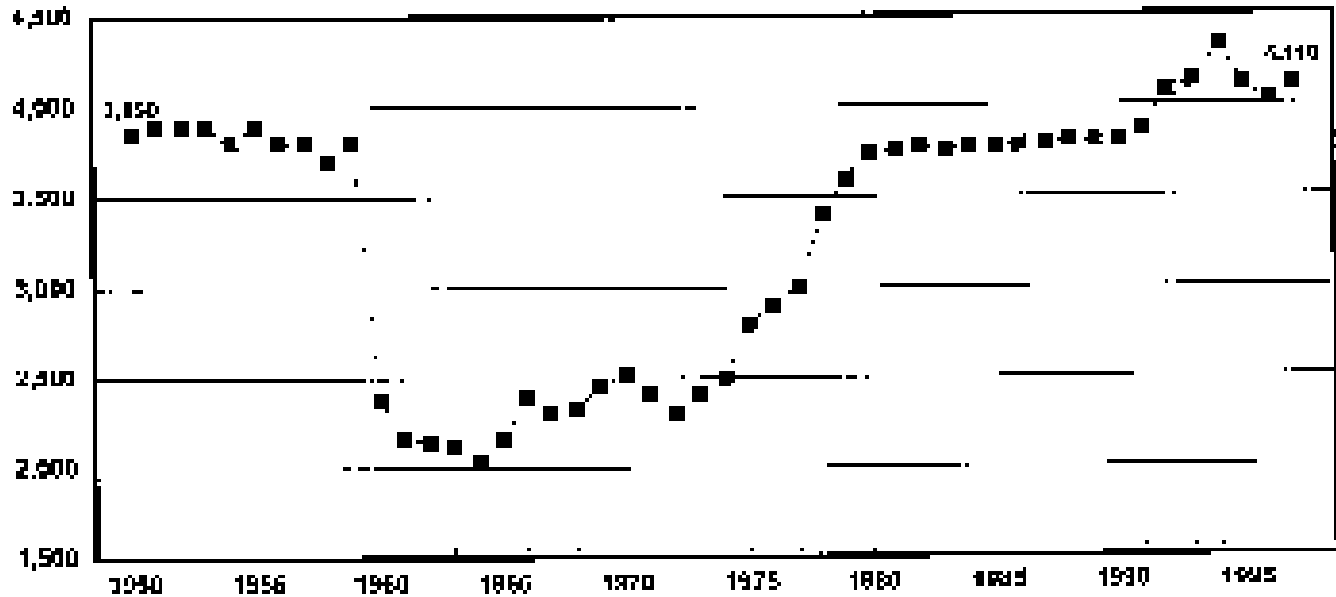
Year	Demographer Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population	Increase and NDWF Modified Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	4,410	19	0.44%	0.37%	4,167	18	0.44%	0.34%
2001	4,400	6	0.35%	0.37%	4,181	8	0.42%	0.29%
2002	4,400	0	0.48%	0.36%	4,201	17	0.46%	0.28%
2003	4,410	10	-0.39%	0.36%	4,217	16	0.38%	0.19%
2004	4,410	10	0.23%	0.36%	4,232	15	0.35%	0.29%
2005	4,400	0	-0.40%	0.35%	4,247	14	0.34%	0.28%
2006	4,400	0	-0.23%	0.34%	4,260	14	0.32%	0.28%
2007	4,380	0	-0.46%	0.33%	4,273	13	0.30%	0.27%
2008	4,380	0	0.16%	0.33%	4,283	12	0.28%	0.26%
2009	4,400	20	0.46%	0.32%	4,298	1	0.26%	0.27%
2010	4,420	20	0.46%	0.32%	4,307	10	0.24%	0.16%
2011	4,440	19	0.33%	0.32%	4,316	9	0.22%	0.16%
2012	4,450	10	0.45%	0.32%	4,327	9	0.20%	0.16%
2013	4,460	10	0.45%	0.32%	4,332	5	0.18%	0.16%
2014	4,470	10	0.22%	0.31%	4,337	7	0.16%	0.15%
2015	4,480	10	0.42%	0.31%	4,347	5	0.14%	0.15%
2016	4,500	20	0.37%	0.30%	4,351	3	0.12%	0.14%
2017	4,500	0	0.14%	0.29%	4,356	4	0.10%	0.14%
2018	4,500	0	0.44%	0.28%	4,356	0	0.08%	0.13%
2019	-	-	-	-	4,361	3	0.06%	0.14%
2020	-	-	-	-	4,365	2	0.04%	0.14%
Growth Rate Analysis:								
Overall Annual Rate	1950-1997		0.14%					
Overall Annual Rate	1990-1997		-1.35%					
Change by Specific	1960-1970		0.01%					
Time Period (years)	1970-1980		1.92%					
	1980-1990		0.21%					
	1990-1997		1.09%					
Forecast Periods:	1998-2018	0.51%	State Demographer	0.28%	NDWF Modified Forecast			
	1998-2018	0.58%			0.48%			
	2018-2018	0.15%			0.18%			

Source: Nevada Office of the State Demographer (www.nvde.gov) and April 26, 1998, Nevada Division of Water Planning (NWP) County Population Forecasts based on U.S. Census Bureau's County, State and National Projections. Lincoln County population forecast based on estimates provided by U.S. Census Bureau's Department of Community Development.

County Population Analysis

Lincoln County Population Estimates & Forecasts

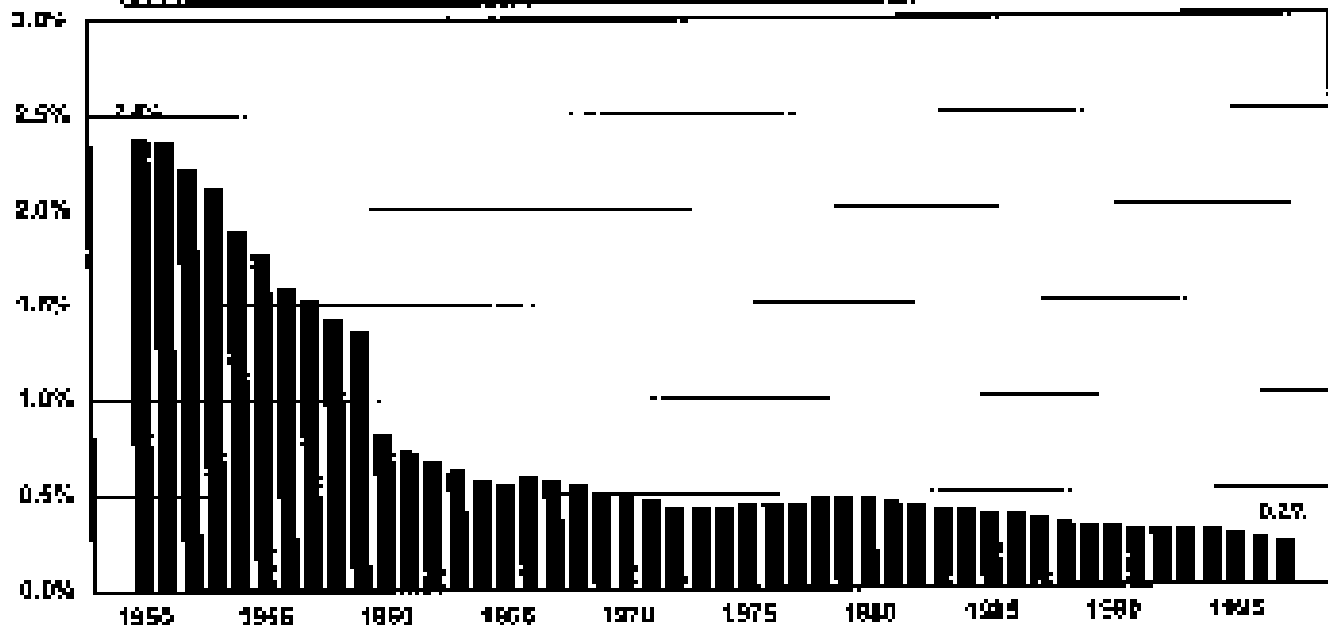
Population Estimates as of July 1 (Persons)



Source: Nevada State Demography

Lincoln County Population Shares

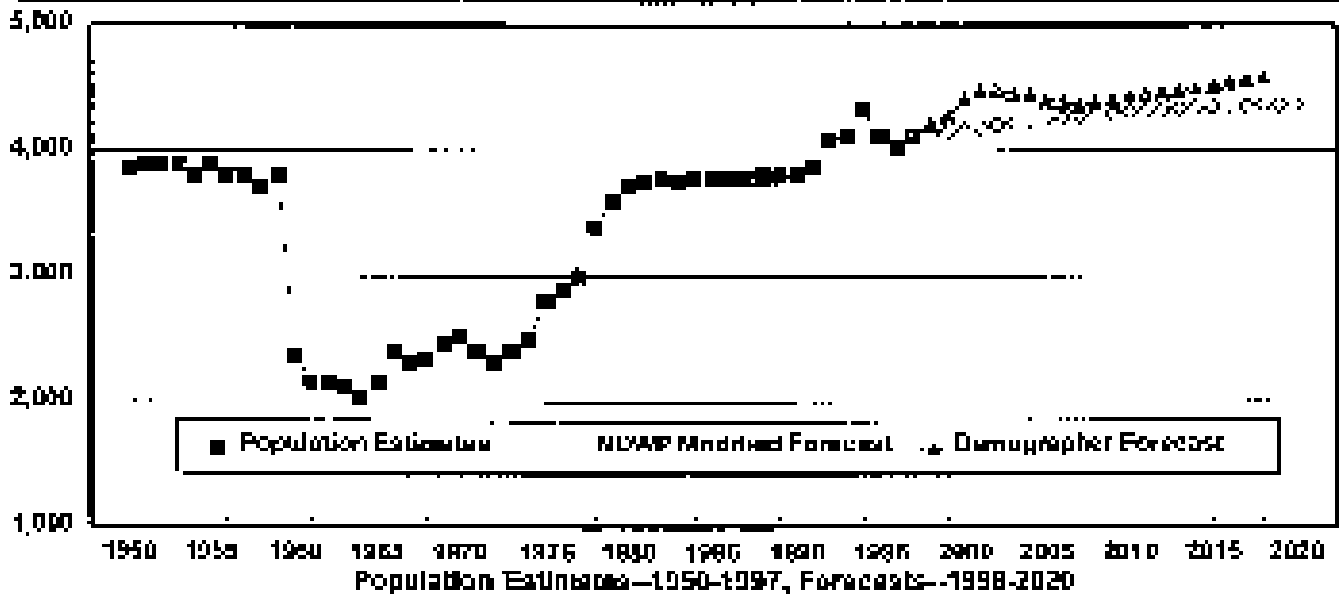
County Share of Total State Population (Percent)



Source: Nevada State Demography

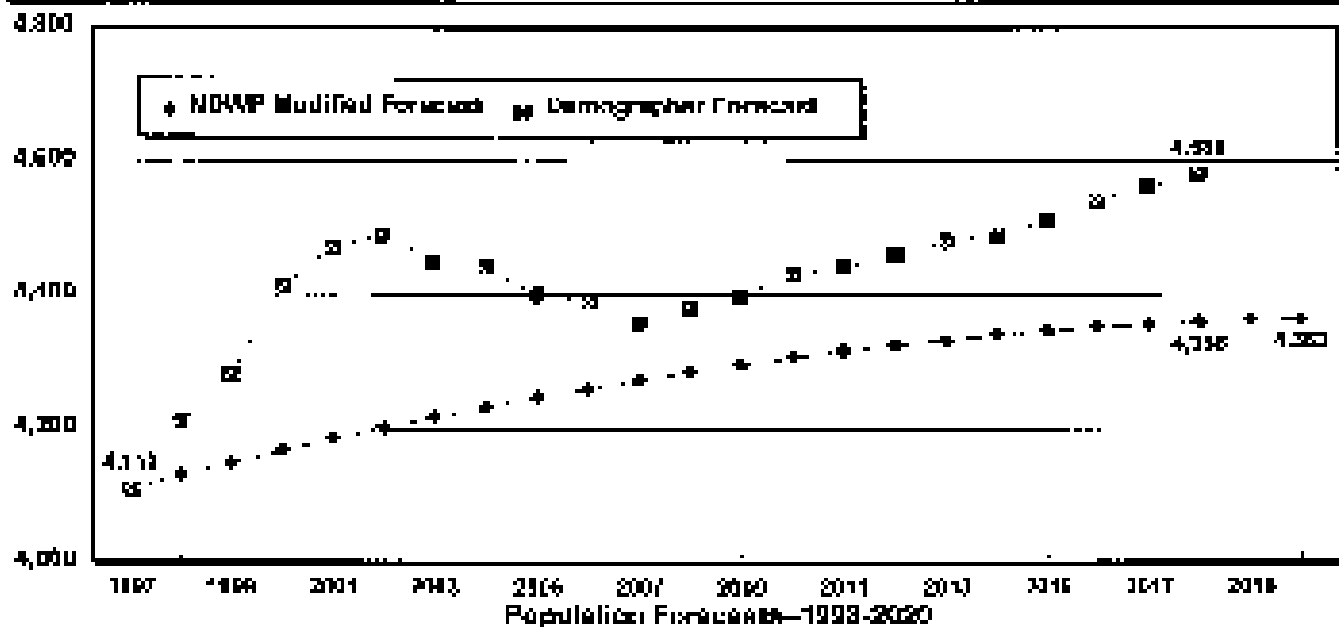
County Population Analysis and Forecasts

Lincoln County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Ken Aronoff, Demographer, Nevada Division of Water Planning and Forecasting

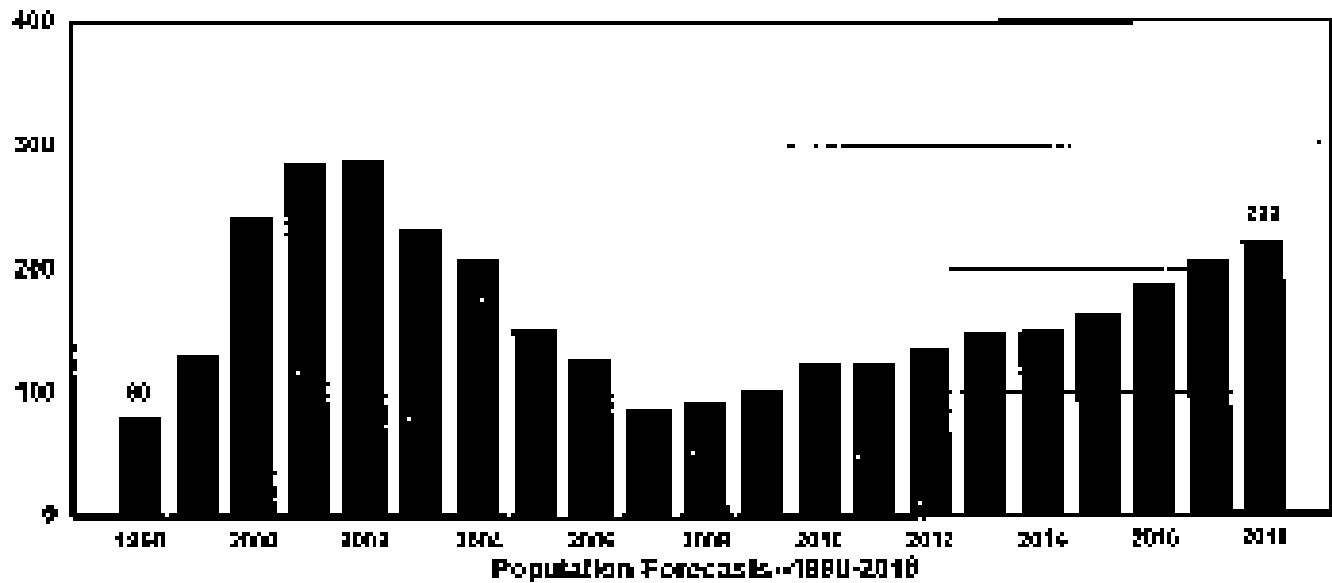
Lincoln County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)



Source: Ken Aronoff, Demographer, Nevada Division of Water Planning and Forecasting

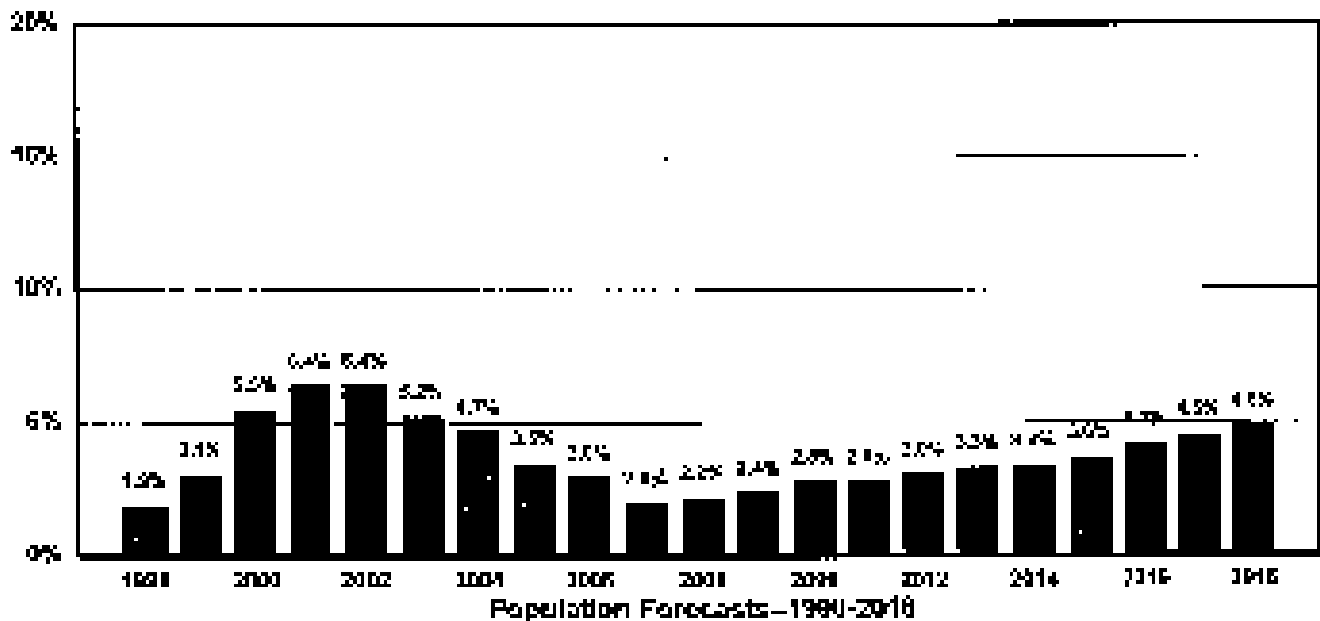
County Population Forecast Variances

Lincoln County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecasts.

Lincoln County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecasts.

Lyon County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Year	December Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimated and 2008-F Modified Forecasts	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	3,732	--	--	2.36%	3,732	--	--	2.36%
1951	3,830	97	2.62%	2.37%	3,830	97	2.62%	2.38%
1952	3,900	150	3.92%	2.22%	3,900	105	2.85%	2.22%
1953	3,700	(200)	-5.13%	2.01%	3,700	(200)	-5.13%	2.01%
1954	4,100	400	10.81%	2.63%	4,100	400	10.81%	2.63%
1955	4,400	300	7.32%	2.08%	4,400	300	7.32%	2.08%
1956	4,600	200	4.55%	1.92%	4,600	200	4.55%	1.92%
1957	4,600	0	0.00%	1.92%	4,600	0	0.00%	1.92%
1958	4,600	0	0.00%	1.92%	4,600	0	0.00%	1.92%
1959	4,700	100	2.17%	1.98%	4,700	100	2.17%	1.98%
1960	6,245	1,545	32.87%	2.77%	6,245	1,545	32.87%	2.77%
1961	6,575	410	6.57%	3.04%	6,575	410	6.57%	3.04%
1962	6,708	133	2.02%	2.98%	6,708	133	2.02%	2.98%
1963	6,665	(43)	-0.64%	2.93%	6,665	(43)	-0.64%	2.93%
1964	6,823	158	2.38%	2.97%	6,823	158	2.38%	2.97%
1965	7,116	293	4.29%	2.89%	7,116	293	4.29%	2.89%
1966	7,445	329	4.63%	2.84%	7,445	329	4.63%	2.84%
1967	7,554	109	1.46%	2.86%	7,554	109	1.46%	2.85%
1968	7,740	186	2.46%	2.80%	7,740	186	2.46%	2.80%
1969	7,934	194	2.50%	2.85%	7,934	194	2.50%	2.85%
1970	8,457	523	6.48%	3.16%	8,457	523	6.48%	3.16%
1971	9,330	873	10.32%	3.79%	9,330	873	10.32%	3.79%
1972	9,700	400	4.29%	3.77%	9,700	400	4.29%	3.77%
1973	10,100	400	4.16%	3.97%	10,100	400	4.16%	3.97%
1974	10,200	100	0.99%	3.91%	10,200	100	0.99%	3.91%
1975	10,700	500	4.90%	3.88%	10,700	500	4.90%	3.88%
1976	10,500	(200)	-1.87%	3.82%	10,500	(200)	-1.87%	3.82%
1977	10,800	300	2.86%	3.94%	10,800	300	2.86%	3.94%
1978	11,300	500	4.63%	3.97%	11,300	500	4.63%	3.97%
1979	12,400	1,100	9.73%	4.32%	12,400	1,100	9.73%	4.32%
1980	13,350	950	7.66%	4.30%	13,350	950	7.66%	4.30%
1981	14,100	750	5.62%	4.57%	14,100	750	5.62%	4.57%
1982	14,600	500	3.54%	4.53%	14,600	500	3.54%	4.53%
1983	15,080	480	3.29%	4.54%	15,080	480	3.29%	4.54%
1984	15,500	420	2.76%	4.70%	15,500	420	2.76%	4.70%
1985	16,480	980	6.32%	4.72%	16,480	980	6.32%	4.72%
1986	17,160	680	4.13%	4.74%	17,160	680	4.13%	4.74%
1987	17,740	580	3.36%	4.77%	17,740	580	3.36%	4.77%
1988	18,220	480	2.71%	4.78%	18,220	480	2.71%	4.78%
1989	20,150	1,930	10.60%	4.77%	20,150	1,930	10.60%	4.77%
1990	20,590	440	2.19%	4.75%	20,590	440	2.19%	4.75%
1991	21,450	860	4.17%	4.78%	21,450	860	4.17%	4.78%
1992	22,110	660	3.07%	4.75%	22,110	660	3.07%	4.75%
1993	23,750	1,640	7.42%	4.70%	23,750	1,640	7.42%	4.70%
1994	25,360	1,610	6.78%	4.70%	25,360	1,610	6.78%	4.70%
1995	26,580	1,220	4.81%	4.68%	26,580	1,220	4.81%	4.68%
1996	28,480	1,900	7.15%	4.60%	28,480	1,900	7.15%	4.60%
1997	30,370	1,890	6.64%	4.54%	30,370	1,890	6.64%	4.54%
1998	32,180	1,810	5.96%	4.72%	32,179	1,809	5.95%	4.72%
1999	33,600	1,420	4.42%	4.93%	33,595	1,417	4.42%	4.93%

Lyon County Population Estimates & Forecasts

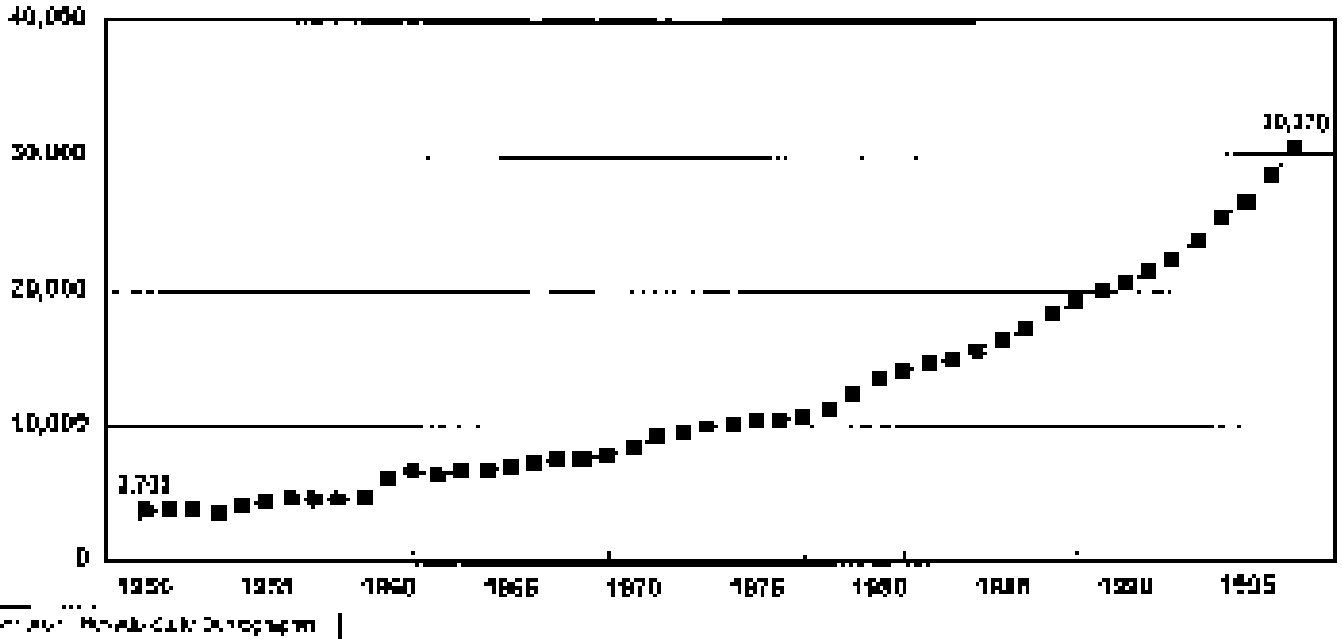
Population Estimates (1950-1997) and Forecasts (1998-2020) – July 1st (Persons)

Year	Population Estimated and Forecasted	Change in Population (Persons)	Percent Change (Average)	Share of Total State Population	Migration and NIMFP Modified Increase	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	35,790	1,850	5.21%	1.75%	1,721	1,120	3.15%	1.50%
2001	37,400	1,750	4.92%	1.76%	2,150	1,130	3.01%	1.50%
2002	39,110	2,000	5.32%	1.96%	22,785	1,130	2.89%	1.50%
2003	41,040	1,930	4.94%	1.80%	24,116	1,135	2.76%	1.50%
2004	43,060	2,020	4.92%	1.83%	25,219	1,132	2.63%	1.50%
2005	45,240	2,180	5.04%	1.87%	26,577	1,128	2.49%	1.50%
2006	46,710	1,470	3.25%	1.88%	27,659	1,122	2.39%	1.50%
2007	48,330	1,620	3.46%	1.89%	28,615	1,114	2.30%	1.50%
2008	50,170	2,040	4.22%	1.92%	29,717	1,105	2.26%	1.50%
2009	52,870	2,400	4.58%	1.95%	30,890	1,090	2.25%	1.50%
2010	54,900	2,400	4.54%	1.96%	31,878	1,070	2.17%	1.50%
2011	57,050	2,380	4.33%	1.97%	32,931	1,055	2.13%	1.50%
2012	59,690	2,680	4.68%	1.98%	34,065	1,038	2.05%	1.50%
2013	62,490	2,800	4.69%	2.00%	35,279	1,010	1.97%	1.50%
2014	65,270	2,820	4.51%	2.02%	36,560	984	1.90%	1.50%
2015	68,270	2,990	4.43%	2.03%	37,911	958	1.84%	1.50%
2016	71,500	3,000	4.40%	2.04%	39,337	921	1.78%	1.50%
2017	74,440	3,140	4.39%	2.05%	40,777	900	1.75%	1.50%
2018	78,620	3,180	4.32%	2.05%	42,240	855	1.69%	1.50%
2019	-	-	-	-	43,395	815	1.65%	1.50%
2020	-	-	-	-	44,170	774	1.62%	1.50%
Growth Rate (annual)		1950- 97	4.55%					
Average Annual Rate of Change's Forecast		1950-1990	5.37%					
State Forecast (annual)		1970-1990	1.05%					
		1980-1990	4.24%					
		1990-1997	5.71%					
Five Year Periods		1998-2003	4.65%	State Demographer		2.69%	NIMFP Modified Forecast	
		1998-2008	4.73%			3.15%		
		2008-2018	4.51%			2.15%		

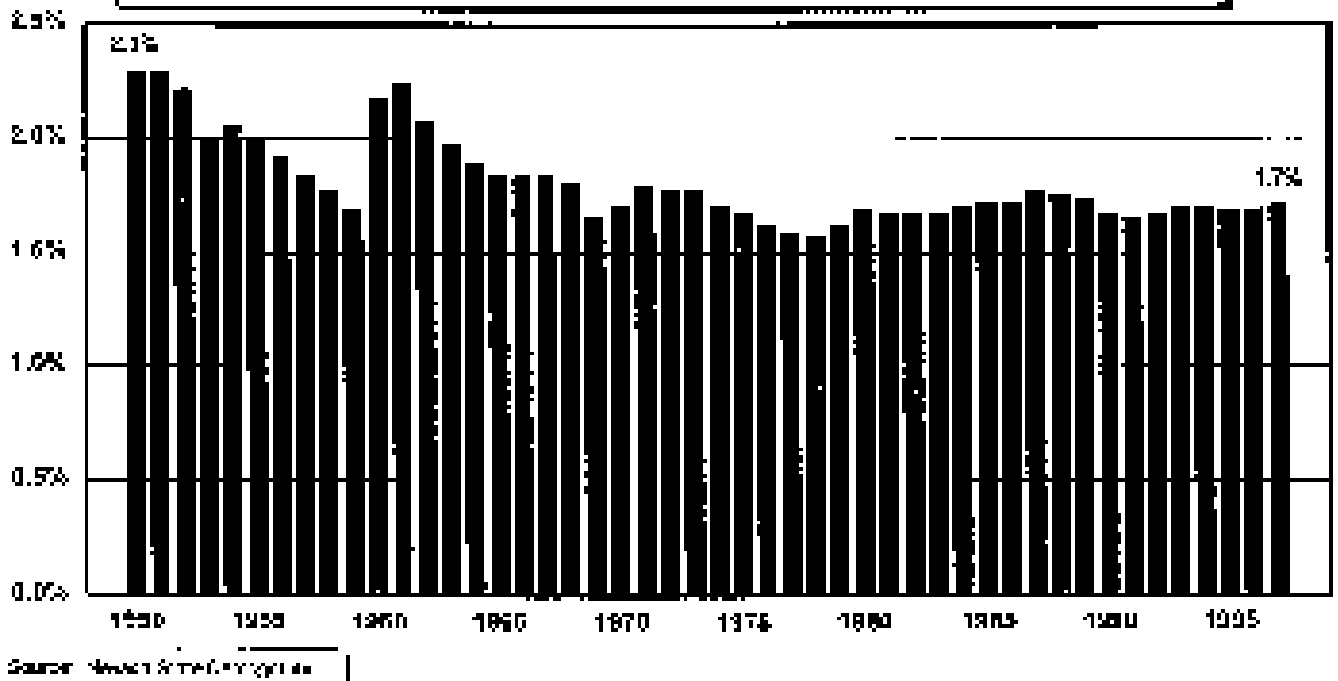
Source: Nevada Office of the State Demographer (Projections to 2020 April 11, 2014; Nevada Division of Water Planning (Lyon County population forecasts based on 2014 County Department of Compliance and Planning forecasts; Nevada County population forecasts based on forecasts provided by the Nevada County Department of Community Development.)

County Population Analysis

Lyon County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)

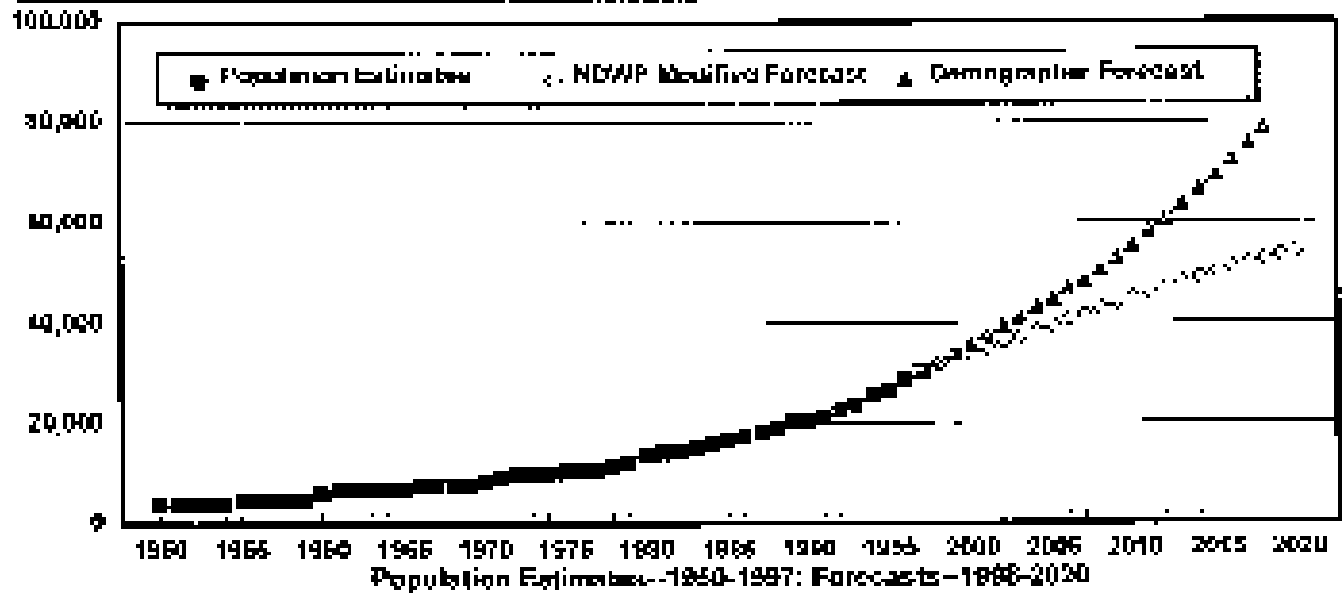


Lyon County Population Shares County Share of Total State Population (Percent)



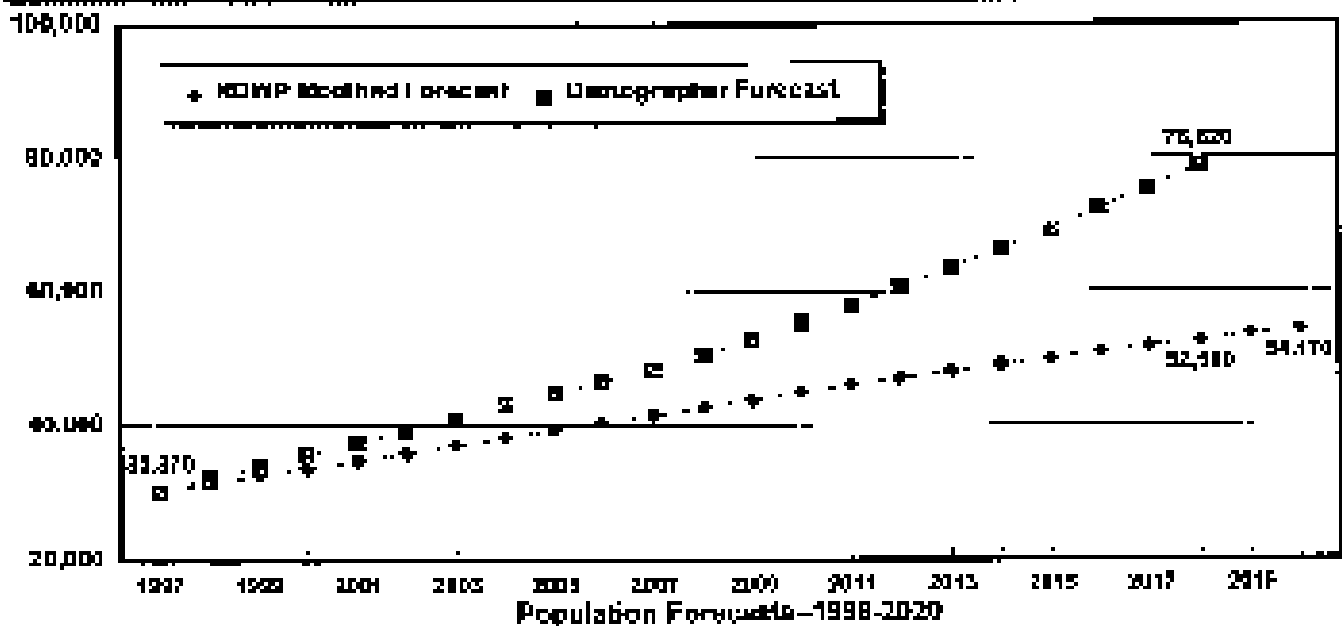
County Population Analysis and Forecasts

Lyon County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Bureau of Labor Planning and Forecasting

Lyon County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

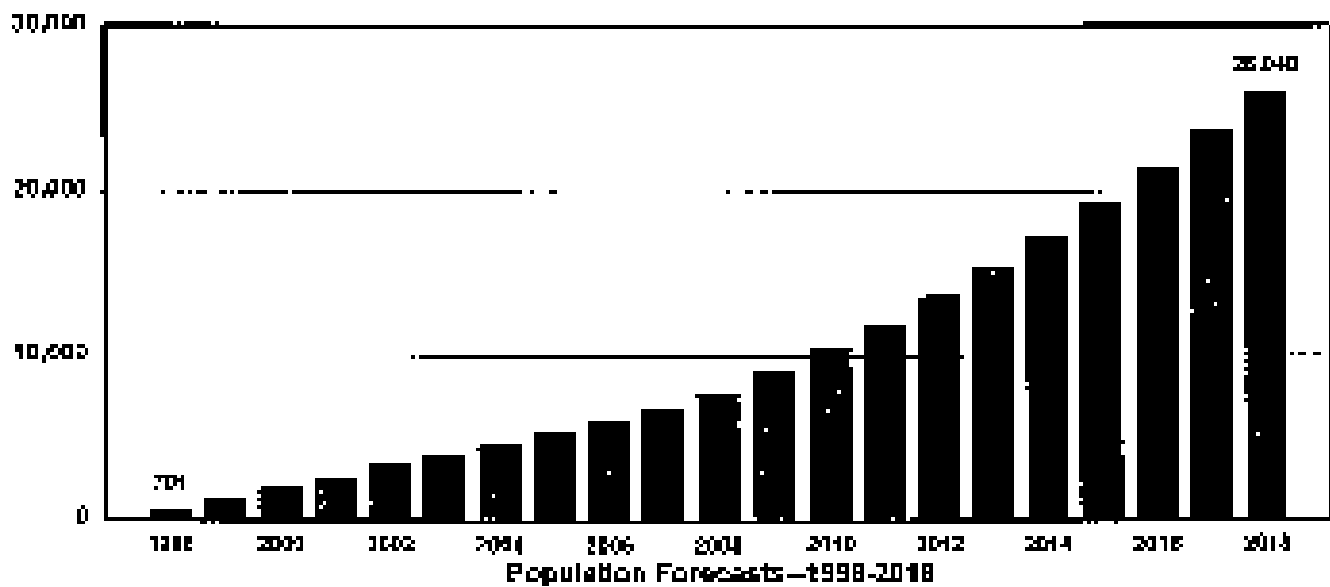


Source: Nevada State Demographer, Bureau of Labor Planning and Forecasting

County Population Forecast Variances

Lyon County Population Forecast Variances

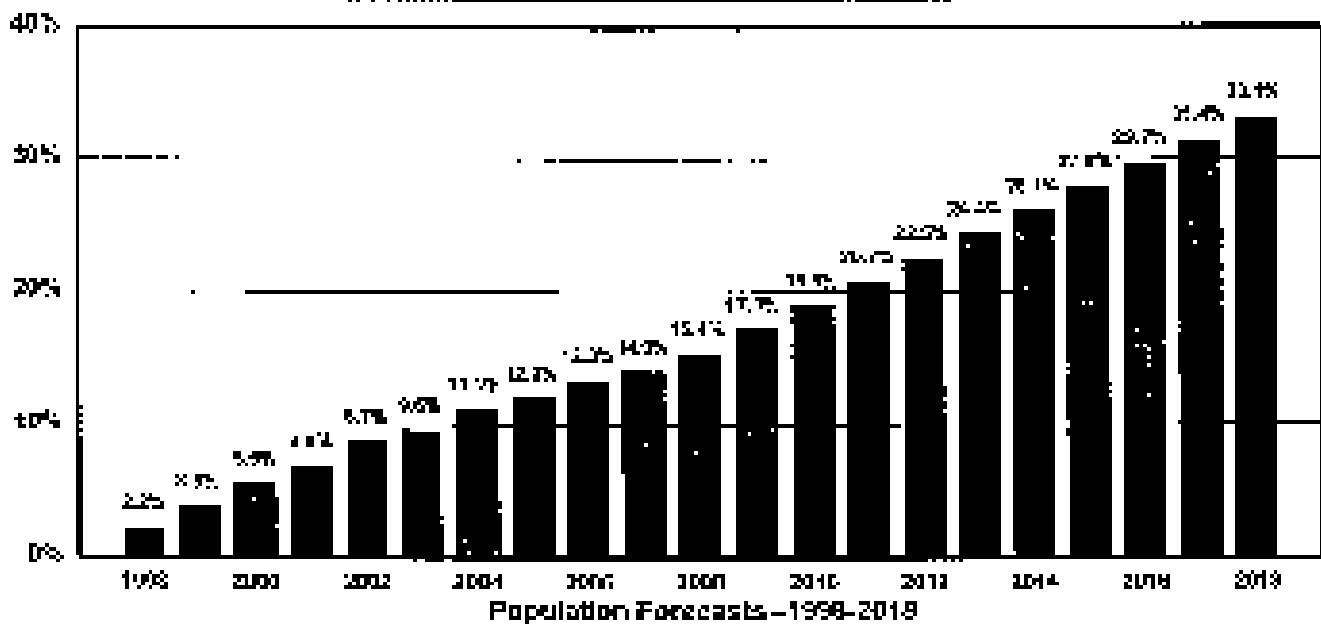
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Heidi Sims Demographer, Nevada Division of Water Planning and Forecasting

Lyon County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Heidi Sims Demographer, Nevada Division of Water Planning and Forecasting

Mineral County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Year	Population Estimated Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population	Mineral and BDOY Modified Forecasts	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population
1950	5,538	--	--	3.47%	5,538	--	--	3.47%
1951	5,700	162	2.93%	3.45%	5,700	162	2.93%	3.43%
1952	5,800	100	1.75%	3.52%	6,200	400	6.88%	3.49%
1953	7,100	1,300	18.52%	3.85%	7,100	900	14.52%	3.55%
1954	8,000	900	12.68%	4.02%	8,400	400	5.00%	4.02%
1955	9,000	1,000	12.50%	4.08%	9,200	200	2.22%	4.08%
1956	10,200	1,200	13.33%	4.25%	10,500	300	2.94%	4.25%
1957	9,100	(1,100)	-12.08%	3.65%	9,100	(1,400)	-15.38%	3.65%
1958	8,500	(600)	-6.59%	3.42%	8,500	(600)	-6.59%	3.42%
1959	7,500	(1,000)	-11.76%	2.85%	7,500	(1,000)	-13.33%	2.85%
1960	6,324	(1,176)	-15.69%	2.20%	6,324	(1,176)	-18.81%	2.10%
1961	6,327	3	0.05%	2.18%	6,327	3	0.05%	2.19%
1962	6,582	(255)	-3.89%	1.91%	6,077	(505)	-8.39%	1.91%
1963	5,778	(804)	-13.19%	1.70%	5,724	(554)	-9.68%	1.70%
1964	5,500	(278)	-4.81%	1.59%	5,500	(224)	-4.07%	1.59%
1965	5,740	240	4.36%	1.68%	5,740	240	4.36%	1.68%
1966	5,077	(663)	-11.56%	1.52%	6,072	995	16.34%	1.50%
1967	6,441	1,364	22.83%	1.95%	6,441	369	5.75%	1.95%
1968	6,634	193	2.99%	1.92%	6,594	253	3.84%	1.92%
1969	7,111	477	7.19%	1.98%	7,111	417	6.33%	1.98%
1970	6,561	(550)	-7.73%	1.91%	6,561	(550)	-8.31%	1.91%
1971	6,600	(39)	-0.60%	1.87%	6,600	(39)	-0.60%	1.87%
1972	6,800	200	3.03%	1.80%	6,800	200	2.99%	1.80%
1973	7,000	200	2.94%	1.73%	7,000	200	2.94%	1.73%
1974	7,300	300	4.29%	1.67%	7,300	300	4.14%	1.67%
1975	6,800	(500)	-6.85%	1.60%	6,800	(500)	-7.27%	1.60%
1976	6,200	(600)	-8.82%	1.50%	6,200	(600)	-9.70%	1.50%
1977	5,100	(1,100)	-17.74%	1.30%	6,100	1,000	16.33%	1.30%
1978	5,900	(800)	-15.69%	1.32%	5,900	(200)	-3.28%	1.32%
1979	6,130	230	3.90%	1.35%	6,200	70	1.13%	1.35%
1980	6,217	87	1.42%	1.38%	6,217	17	0.27%	1.38%
1981	6,270	53	0.85%	1.34%	6,270	53	0.85%	1.34%
1982	6,220	(50)	-0.80%	1.31%	6,220	(10)	-0.16%	1.31%
1983	6,210	(10)	-0.16%	1.29%	6,200	(10)	-0.16%	1.29%
1984	6,180	(30)	-0.48%	1.27%	6,180	(20)	-0.32%	1.27%
1985	6,130	(50)	-0.81%	1.25%	6,130	0	0.00%	1.25%
1986	6,200	70	1.14%	1.22%	6,200	70	1.14%	1.22%
1987	6,200	0	0.00%	1.20%	6,200	0	0.00%	1.20%
1988	6,150	(50)	-0.81%	1.18%	6,150	(50)	-0.81%	1.18%
1989	6,160	10	0.16%	1.16%	6,160	10	0.16%	1.16%
1990	6,170	10	0.16%	1.14%	6,170	10	0.16%	1.14%
1991	6,150	(20)	-0.32%	1.12%	6,150	(20)	-0.32%	1.12%
1992	6,180	30	0.49%	1.10%	6,180	30	0.49%	1.10%
1993	6,170	(10)	-0.16%	1.07%	6,170	(10)	-0.16%	1.07%
1994	6,110	(60)	-0.98%	1.05%	6,110	(60)	-0.98%	1.05%
1995	6,110	0	0.00%	1.03%	6,110	0	0.00%	1.03%
1996	6,140	30	0.49%	1.01%	6,140	30	0.49%	1.01%
1997	6,170	30	0.49%	0.99%	6,170	30	0.49%	0.99%
1998	6,170	0	0.00%	0.97%	6,170	0	0.00%	0.97%
1999	6,010	(160)	-2.59%	0.94%	6,024	14	0.23%	0.94%

Mineral County Population Estimates & Forecasts

Population Estimates (1960-1997) and Forecasts (1998-2018)—July 1st (Persons)

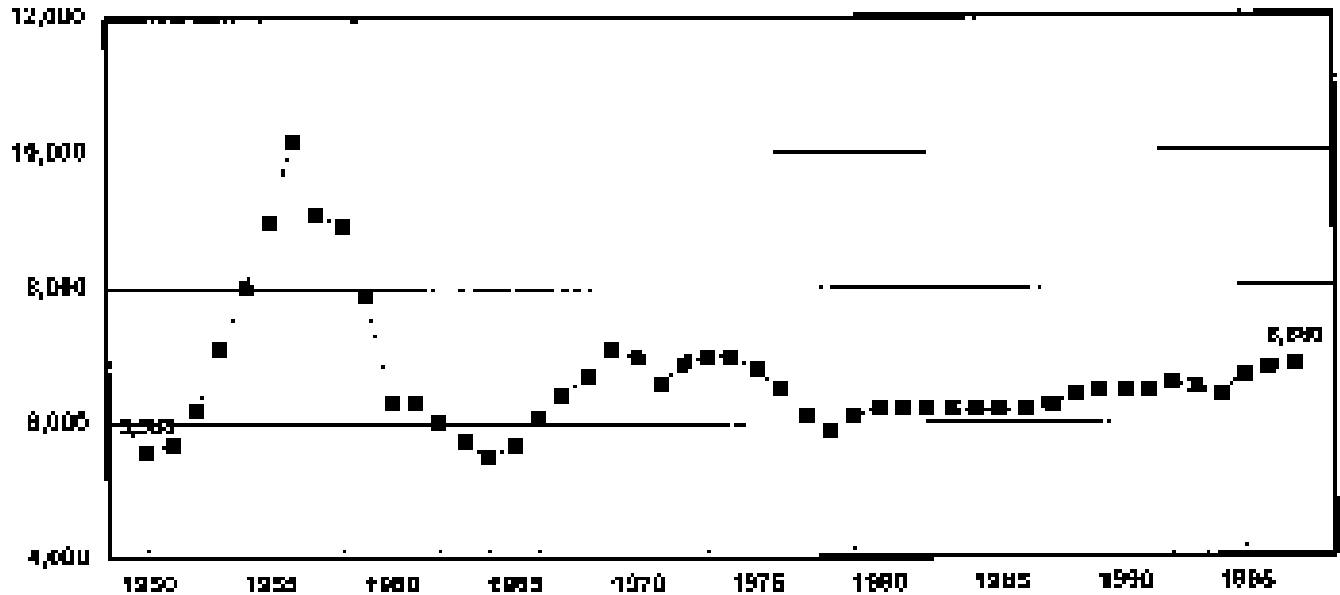
Year	Population Estimate and Forecast	Change in Population (Persons)	Percent Change Population	Share of Total State Population	Increase and Decrease Forecast	Change in Population		Share of Total State Population
						(Persons)	Percent	
2000	6,300	(40)	-0.61%	0.11%	6,344	10	0.14%	0.33%
2001	6,370	70	1.13%	0.11%	6,384	14	0.14%	0.34%
2002	6,300	(70)	-1.10%	0.10%	6,311	(28)	0.29%	0.33%
2003	6,370	70	1.10%	0.10%	6,307	(26)	0.37%	0.32%
2004	6,450	80	1.26%	0.10%	6,302	(25)	0.15%	0.31%
2005	6,420	(30)	-0.47%	0.10%	6,385	23	0.33%	0.30%
2006	6,370	(50)	-0.78%	0.10%	6,308	(29)	0.11%	0.30%
2007	6,290	(80)	-1.26%	0.10%	6,228	(21)	0.29%	0.29%
2008	6,250	(40)	-0.64%	0.10%	6,178	(19)	0.27%	0.28%
2009	6,240	(10)	-0.16%	0.10%	6,103	(18)	0.29%	0.28%
2010	6,230	(10)	-0.16%	0.10%	6,082	(16)	0.21%	0.27%
2011	6,200	(30)	-0.48%	0.10%	6,096	(15)	0.21%	0.27%
2012	6,160	(40)	-0.65%	0.10%	6,110	(13)	0.19%	0.26%
2013	6,170	10	0.16%	0.10%	6,121	(12)	0.16%	0.26%
2014	6,150	(20)	-0.32%	0.10%	6,132	(10)	0.14%	0.26%
2015	6,140	(10)	-0.16%	0.10%	6,141	9	0.12%	0.26%
2016	6,120	(20)	-0.33%	0.10%	6,148	7	0.10%	0.25%
2017	6,110	(10)	-0.16%	0.10%	6,157	6	0.08%	0.25%
2018	6,090	(20)	-0.33%	0.10%	6,258	11	0.08%	0.24%
2019	--	--	--	--	6,267	2	0.02%	0.24%
2020	--	--	--	--	--	--	--	--
Growth Rate Analysis:			1950-1997	0.44%				
Average Annual Rate			1950-1997	1.25%				
of Change (by Decade)			1960-1970	0.66%				
Time Span (Percent)			1970-1980	-1.13%				
			1980-1990	0.40%				
			1990-1997	0.51%				
Forecast Periods:			1998-2018	-0.57%	State Department	0.27%	NWFP Modified Forecast	
			1998-2005	-0.40%		0.37%		
			2006-2018	-0.29%		0.16%		

Source: Nevada Office of the State Cartographer (Historic census April 1st, 1998); Nevada Division of Water Planning (State County population forecasts based on Clark County Department of Community Planning forecasts); Washoe County Government (forecasts based on forecasts provided by the Washoe County Department of Community Development).

County Population Analysis

Mineral County Population Estimates & Forecasts

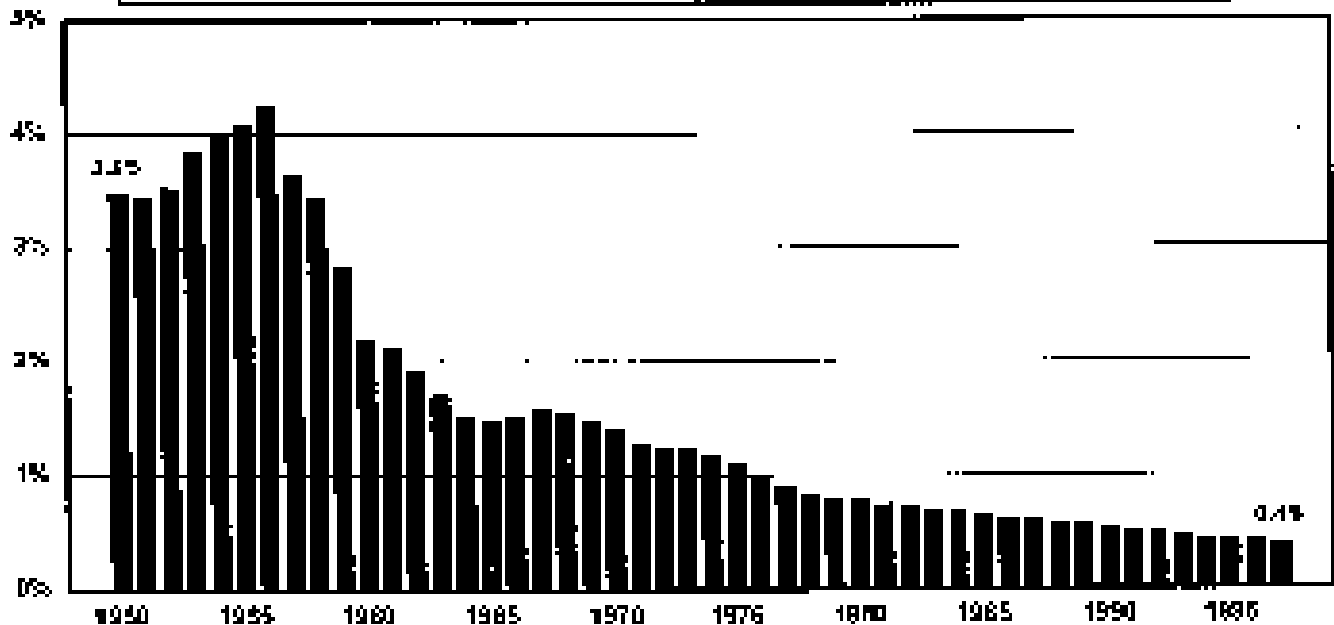
Population Estimates as of July 1 (Persons)



Source: Nevada State Geographer

Mineral County Population Shares

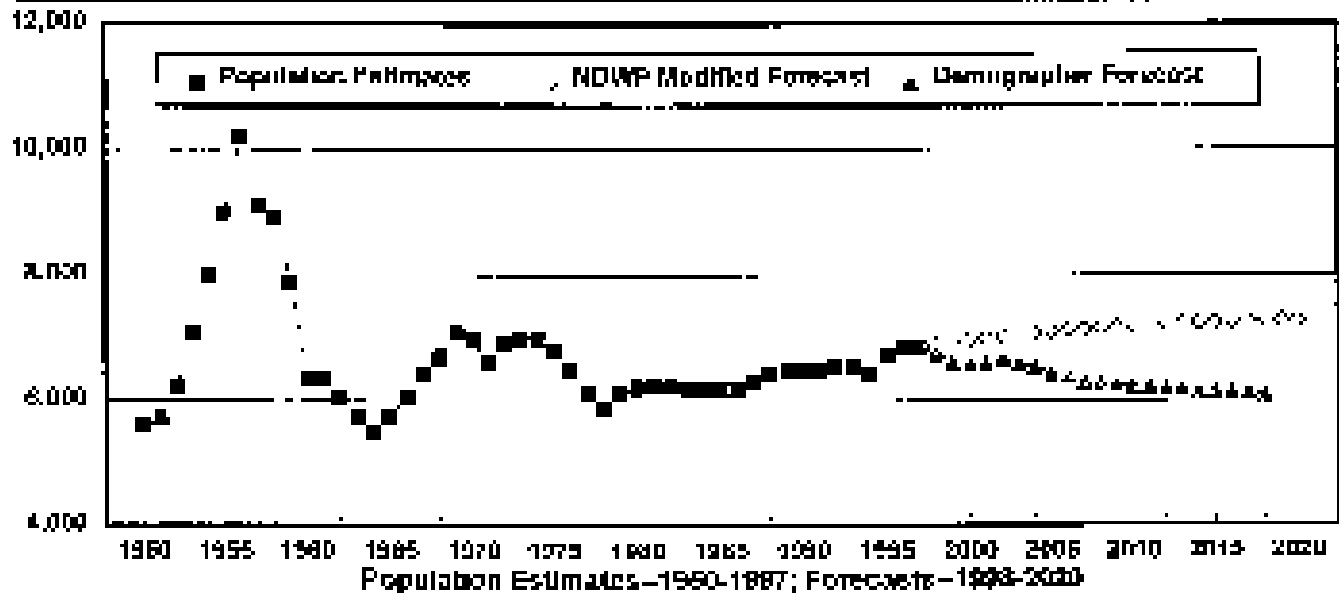
County Share of Total State Population (Percent)



Source: Nevada State Geographer

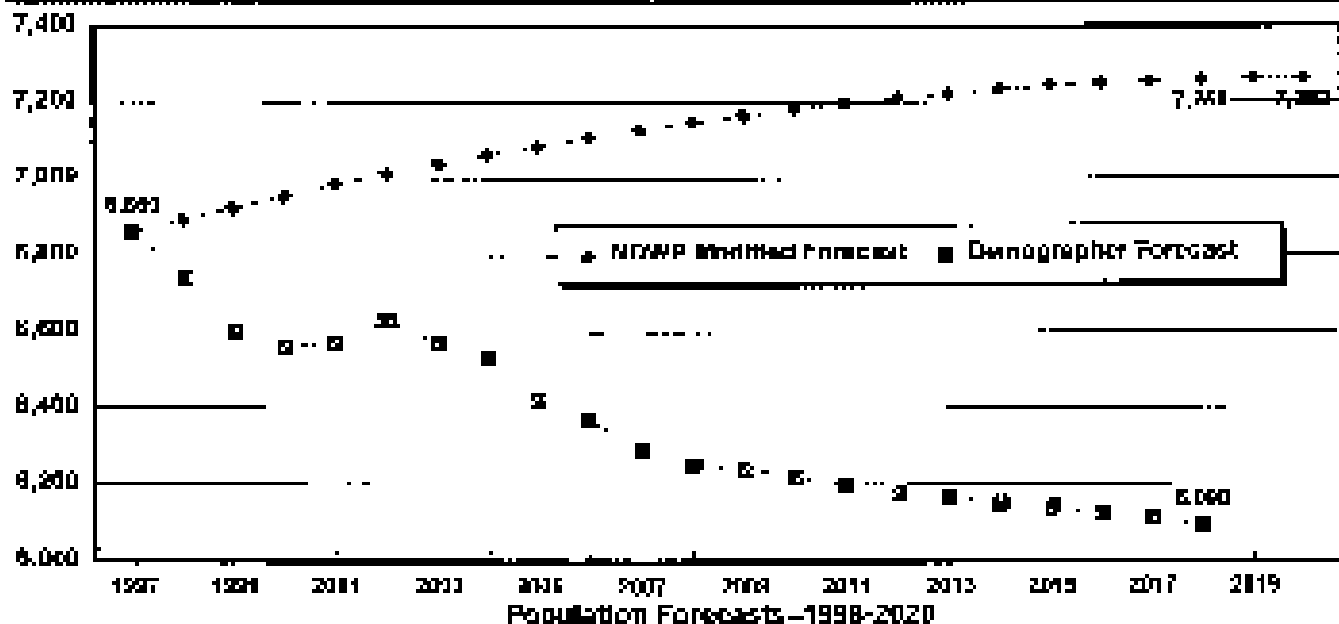
County Population Analysis and Forecasts

Mineral County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada Division of Water Planning, Bureau of Economic Analysis and Planning

Mineral County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

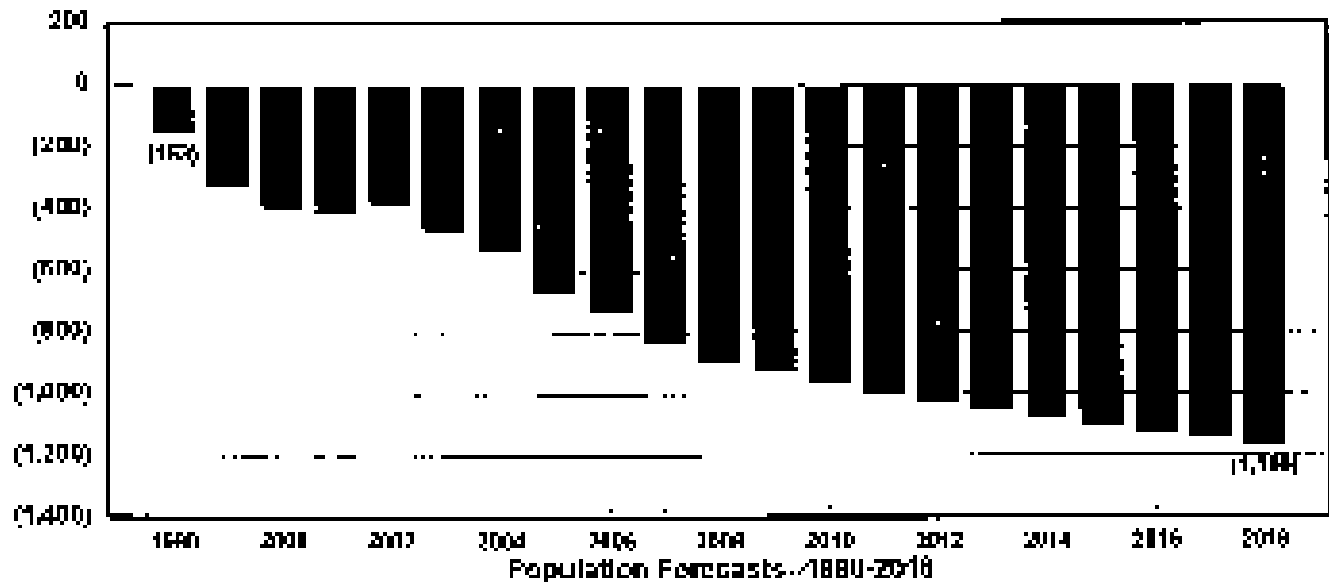


Source: Nevada Division of Water Planning, Bureau of Economic Analysis and Planning

County Population Forecast Variances

Mineral County Population Forecast Variances

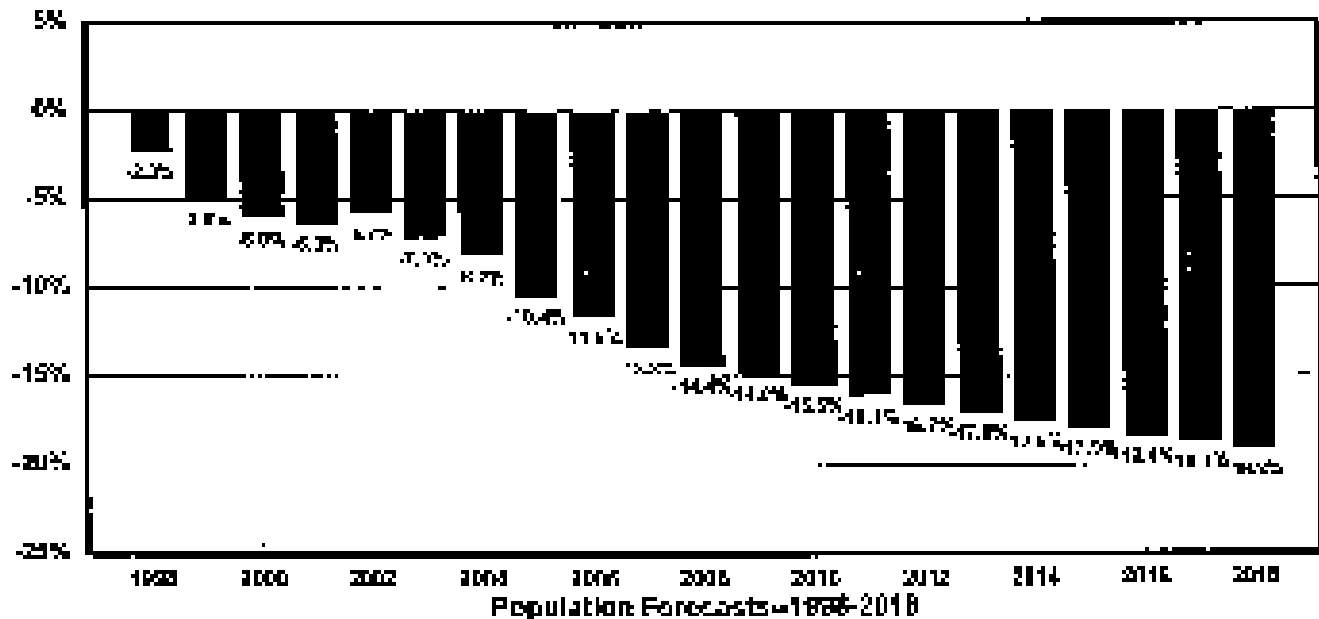
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada Data Demographer, Nevada Division of Water Planning and Forecasting

Mineral County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada Data Demographer, Nevada Division of Water Planning and Forecasting

Nye County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)--July 1st (Persons)

Page 1 of 2

Year	Demographer Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change in Population	Share of Local Population	Estimated NDMP Modified Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change in Population	Share of Total State Population
1950	3,100	--	--	1.92%	3,100	--	--	1.92%
1951	3,100	(0)	-0.00%	1.87%	3,100	(0)	-0.00%	1.87%
1952	2,900	(200)	-6.45%	1.59%	2,900	(200)	-6.45%	1.59%
1953	2,800	(100)	-3.45%	1.52%	2,800	(100)	-3.45%	1.52%
1954	2,700	(100)	-3.57%	1.39%	2,700	(100)	-3.57%	1.39%
1955	2,600	(100)	-3.70%	1.18%	2,600	(100)	-3.70%	1.18%
1956	2,500	(100)	-3.85%	1.04%	2,500	(100)	-3.85%	1.04%
1957	2,400	(100)	-4.00%	1.07%	2,400	(100)	-4.00%	1.04%
1958	3,300	900	26.25%	1.20%	3,100	(200)	-6.25%	1.20%
1959	3,700	400	10.30%	1.37%	3,700	(600)	-16.46%	1.37%
1960	4,512	812	21.95%	1.51%	4,011	(501)	-12.44%	1.67%
1961	5,716	1,204	29.14%	1.72%	5,716	(104)	-1.81%	1.92%
1962	6,678	962	16.83%	2.04%	6,623	(55)	-0.83%	2.17%
1963	6,017	(661)	-10.73%	1.79%	6,511	(506)	-7.77%	1.79%
1964	5,573	(444)	-7.31%	1.53%	5,573	(177)	-3.17%	1.53%
1965	5,233	(340)	-6.10%	1.41%	5,433	(200)	3.83%	1.41%
1966	5,213	(20)	-0.38%	1.32%	5,114	(99)	-1.90%	1.32%
1967	5,163	(50)	-0.96%	1.26%	5,163	(181)	-3.52%	1.26%
1968	5,376	213	4.13%	1.39%	5,376	213	4.06%	1.39%
1969	5,699	323	6.01%	1.59%	5,509	(190)	-3.43%	1.59%
1970	5,495	(204)	-3.58%	1.36%	5,495	(140)	-2.53%	1.36%
1971	4,505	(990)	-22.02%	0.94%	4,900	(395)	-8.94%	0.94%
1972	5,000	495	10.99%	0.97%	5,000	100	2.00%	0.97%
1973	5,500	500	9.00%	0.88%	5,020	(480)	-9.60%	0.88%
1974	5,705	205	3.73%	0.87%	5,220	(485)	-9.16%	0.87%
1975	5,500	(205)	-3.61%	0.89%	5,500	280	5.07%	0.89%
1976	5,600	100	1.82%	0.90%	5,820	220	3.75%	0.90%
1977	5,900	300	5.18%	0.93%	5,900	100	1.70%	0.93%
1978	6,400	500	7.80%	1.05%	7,400	1,000	13.47%	1.05%
1979	6,200	(200)	-3.13%	1.07%	8,200	2,000	24.61%	1.07%
1980	6,048	(152)	-2.45%	1.03%	6,048	842	13.94%	1.03%
1981	6,000	(48)	-0.79%	1.00%	6,000	1,952	32.50%	1.00%
1982	13,010	7,010	53.50%	1.30%	15,000	2,000	13.33%	1.30%
1983	13,480	470	3.63%	1.37%	13,480	(10)	-0.07%	1.37%
1984	14,500	1,020	7.57%	1.55%	14,500	1,020	7.03%	1.55%
1985	14,570	70	0.48%	1.52%	14,570	5	0.03%	1.52%
1986	14,680	110	0.75%	1.48%	14,680	110	0.75%	1.48%
1987	15,700	1,020	6.95%	1.77%	15,700	1,020	6.54%	1.77%
1988	15,760	60	0.38%	1.44%	15,760	60	0.38%	1.44%
1989	17,540	1,780	11.36%	1.51%	17,540	1,780	10.09%	1.51%
1990	18,000	460	2.62%	1.47%	18,150	150	0.83%	1.47%
1991	19,210	1,210	6.66%	1.47%	19,100	(110)	-0.58%	1.47%
1992	20,380	1,170	6.14%	1.49%	20,080	(300)	-1.49%	1.49%
1993	20,550	170	0.84%	1.47%	20,550	470	2.29%	1.47%
1994	20,720	170	0.83%	1.49%	20,720	170	0.82%	1.49%
1995	21,000	280	1.35%	1.46%	21,000	280	1.33%	1.46%
1996	23,240	2,240	9.71%	1.50%	23,240	2,190	9.42%	1.50%
1997	25,600	2,360	9.99%	1.59%	23,610	(2,000)	-8.47%	1.59%
1998	26,100	500	2.15%	1.62%	24,680	(1,420)	-5.91%	1.62%
1999	32,710	6,610	26.97%	1.67%	26,750	(1,960)	-7.35%	1.67%

Nye County Population Estimates & Forecasts

Population Estimates (1998-1999) and Forecasts (1998-2020) - July 1st (Persons)

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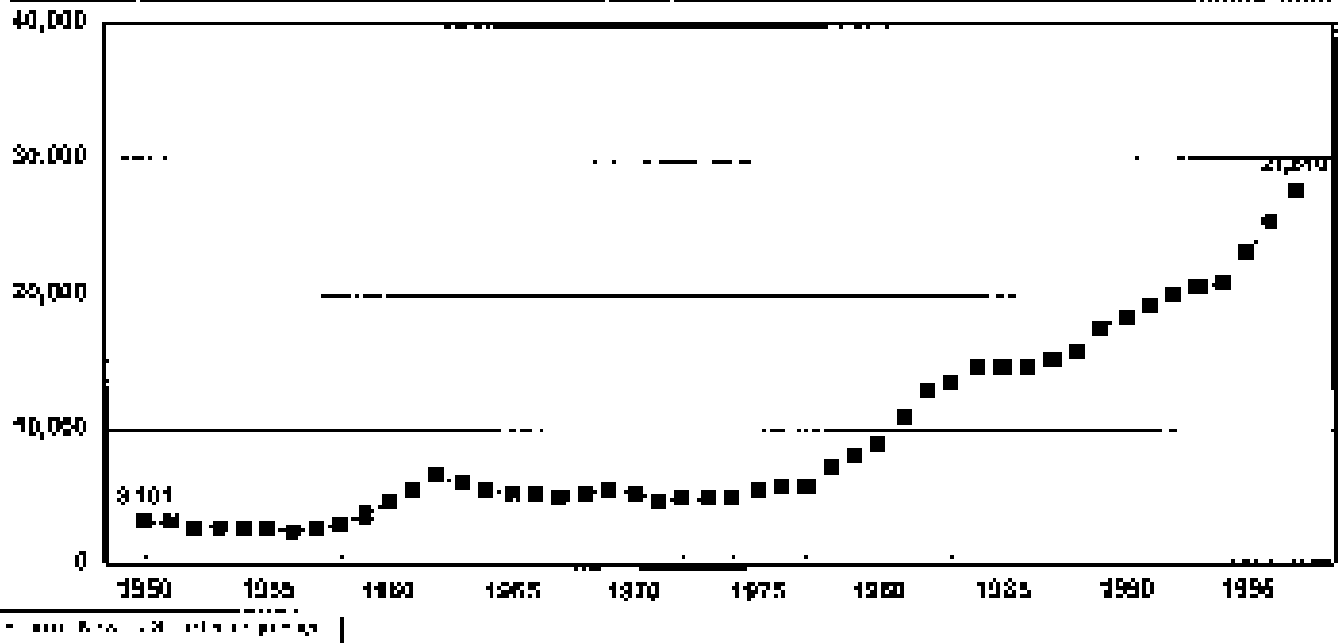
Year	Demographic Reference and Forecasts	Change in Population (Persons)	Percent Change	Share of Total State Population	Estimated NTPP Modified Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	30,760	2,400	7.14%	1.72%	30,820	1,070	3.61%	1.44%
2001	27,340	2,250	6.51%	1.70%	31,910	1,070	3.52%	1.55%
2002	29,850	2,540	6.85%	1.81%	32,490	1,077	3.51%	1.54%
2003	31,890	2,040	6.51%	1.74%	33,050	1,077	3.26%	1.54%
2004	44,050	2,170	5.25%	1.89%	33,120	1,061	3.19%	1.54%
2005	43,750	1,670	3.99%	1.89%	36,180	1,054	3.00%	1.54%
2006	43,010	1,760	3.85%	1.91%	37,220	1,049	2.88%	1.55%
2007	48,830	1,810	2.97%	1.91%	38,260	1,024	2.97%	1.55%
2008	50,280	1,560	3.20%	1.9%	39,240	1,014	2.65%	1.54%
2009	52,680	1,700	3.37%	1.93%	40,230	941	2.40%	1.56%
2010	55,520	1,540	3.13%	1.92%	41,180	955	2.34%	1.56%
2011	55,250	1,500	2.91%	1.91%	42,110	903	2.25%	1.56%
2012	56,520	1,240	2.75%	1.93%	43,000	895	2.19%	1.57%
2013	58,760	1,540	2.71%	1.93%	43,890	890	2.05%	1.58%
2014	59,610	1,750	2.88%	1.93%	44,650	871	1.97%	1.58%
2015	61,020	1,480	2.47%	1.91%	45,470	782	1.74%	1.58%
2016	62,840	1,510	2.45%	1.90%	46,240	739	1.62%	1.58%
2017	64,290	1,490	2.37%	1.89%	46,980	680	1.50%	1.58%
2018	65,750	1,460	2.27%	1.88%	47,540	645	1.37%	1.58%
2019	-	-	-	-	48,110	594	1.25%	1.57%
2020	-	-	-	-	48,680	542	1.12%	1.57%
Growth Rate (annual):	1950-1997		4.70%					
Average Annual Rate	1950-1990		4.19%					
of Change by Decade:	1960-1970		1.63%					
1970-1980			5.14%					
1980-1990			7.28%					
1990-1997			6.14%					
Forecast Details:	1998-2018		4.21%	State Demographic		1.62%	NTPP Modified Forecast	
	1998-2018		5.63%			3.25%		
	2018-2020		2.71%			1.00%		

Source: Nevada Office of the State Demographer (Nevada Census, April 15, 1998); Nevada Division of State Planning, State Office; population forecasts by the Nevada State Census Department; demographic planning forecasts, Nevada County Economic Forecast; Local unit forecasts provided by the Nevada County Department of Community Development.

County Population Analysis

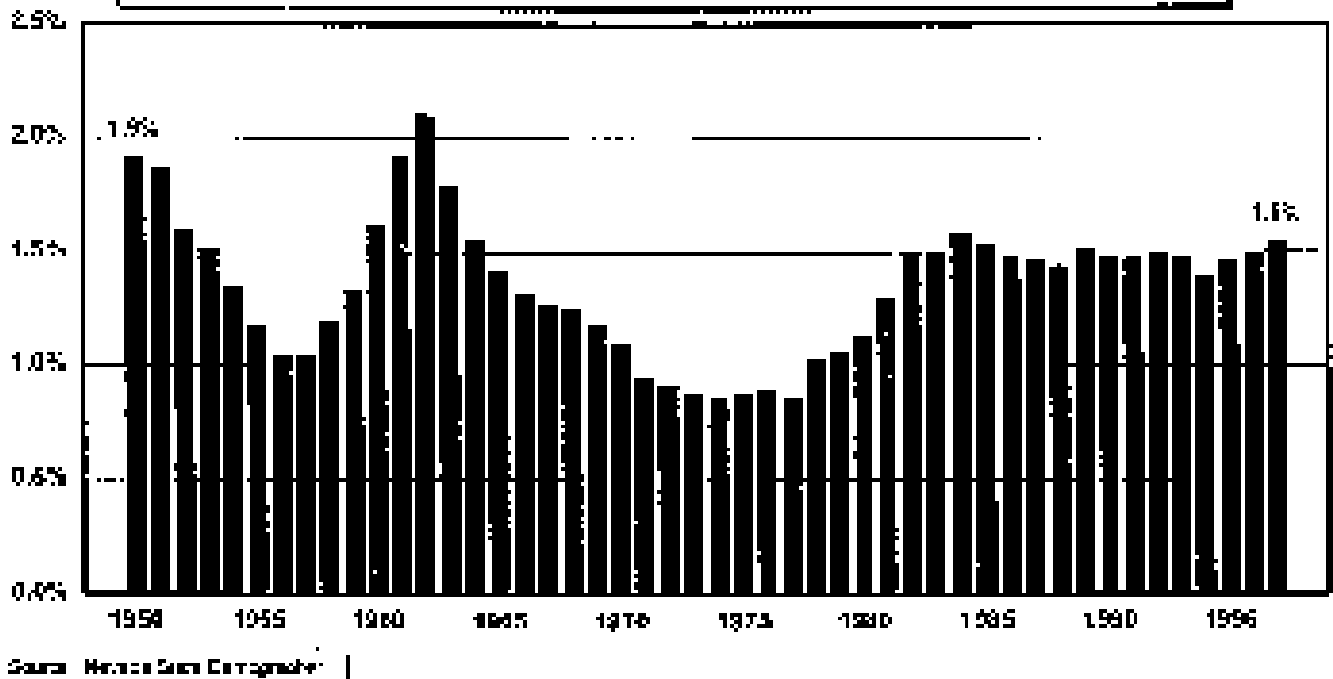
Nye County Population Estimates & Forecasts

Population Estimates as of July 1 (Persons)



Nye County Population Shares

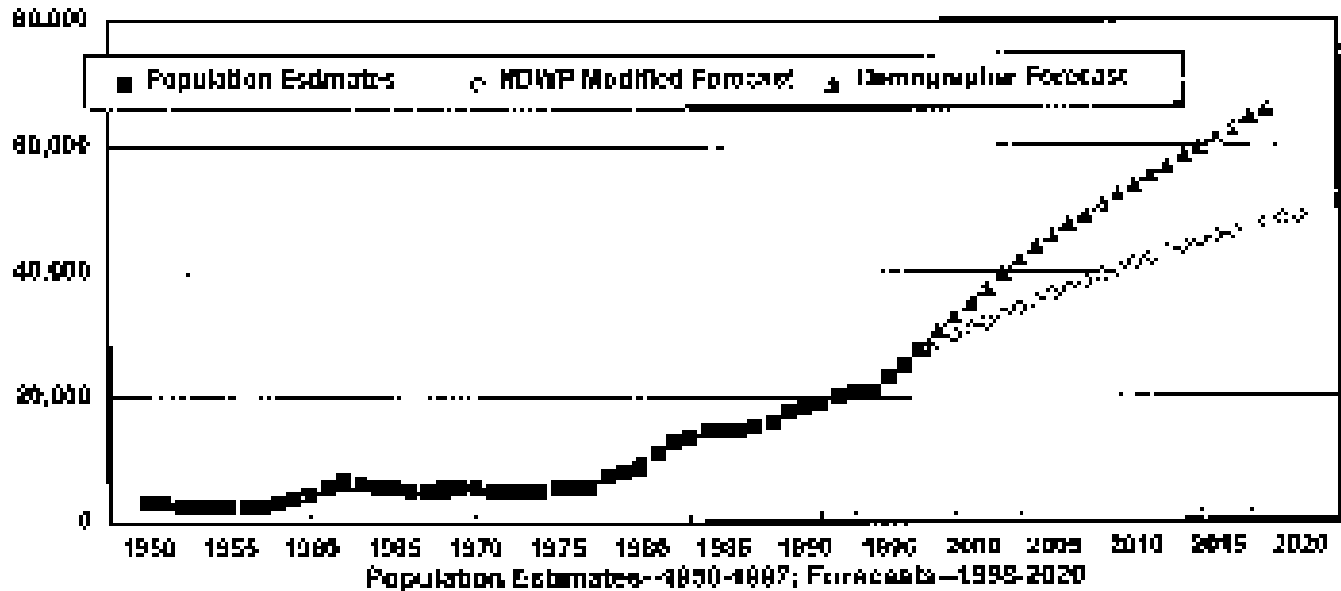
County Share of Total State Population (Percent)



County Population Analysis and Forecasts

Nye County Population Estimates & Forecasts

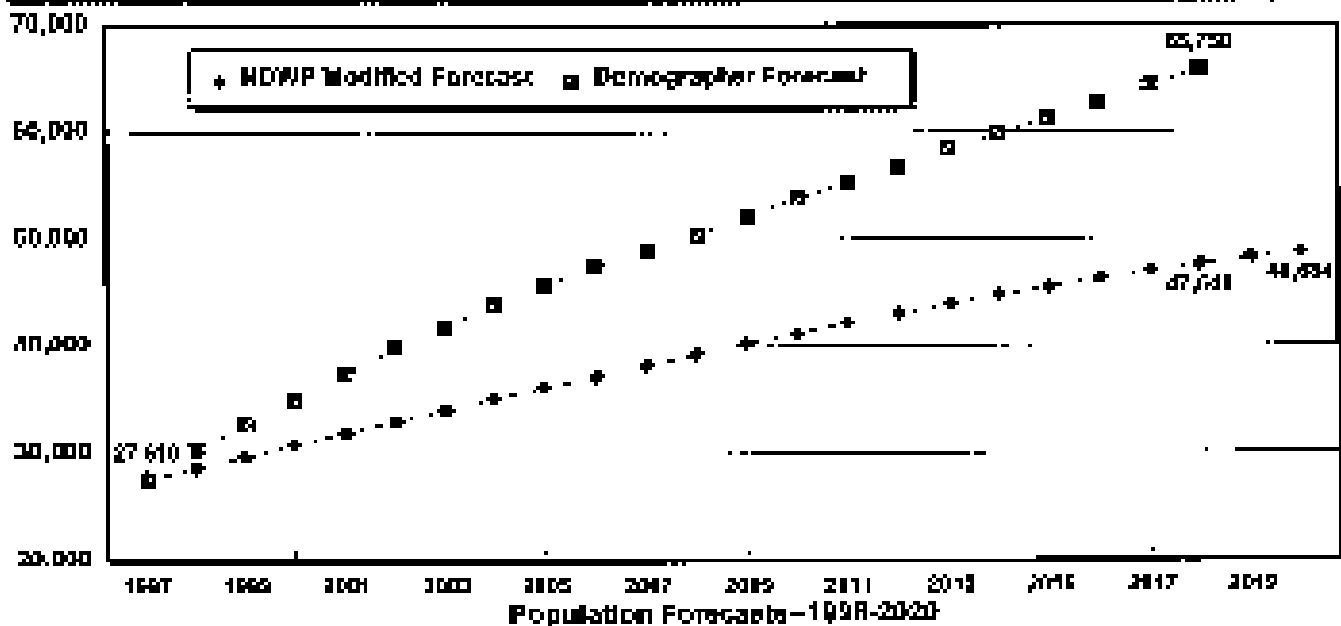
Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada Statewide Population Model (2000) by Nevada Statewide Planning and Research

Nye County Population Forecast Comparisons

State Demographer and NDWP Modified--July 1 (Persons)

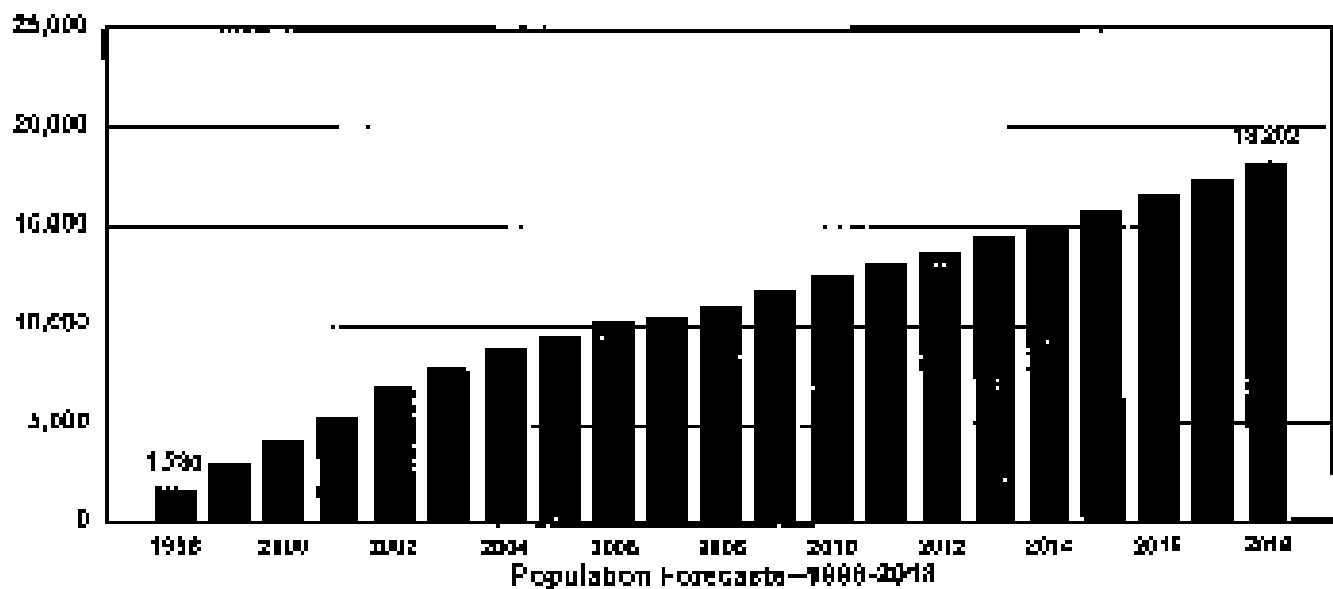


Source: Nevada Statewide Population Model (2000) by Nevada Statewide Planning and Research

County Population Forecast Variances

Nye County Population Forecast Variances

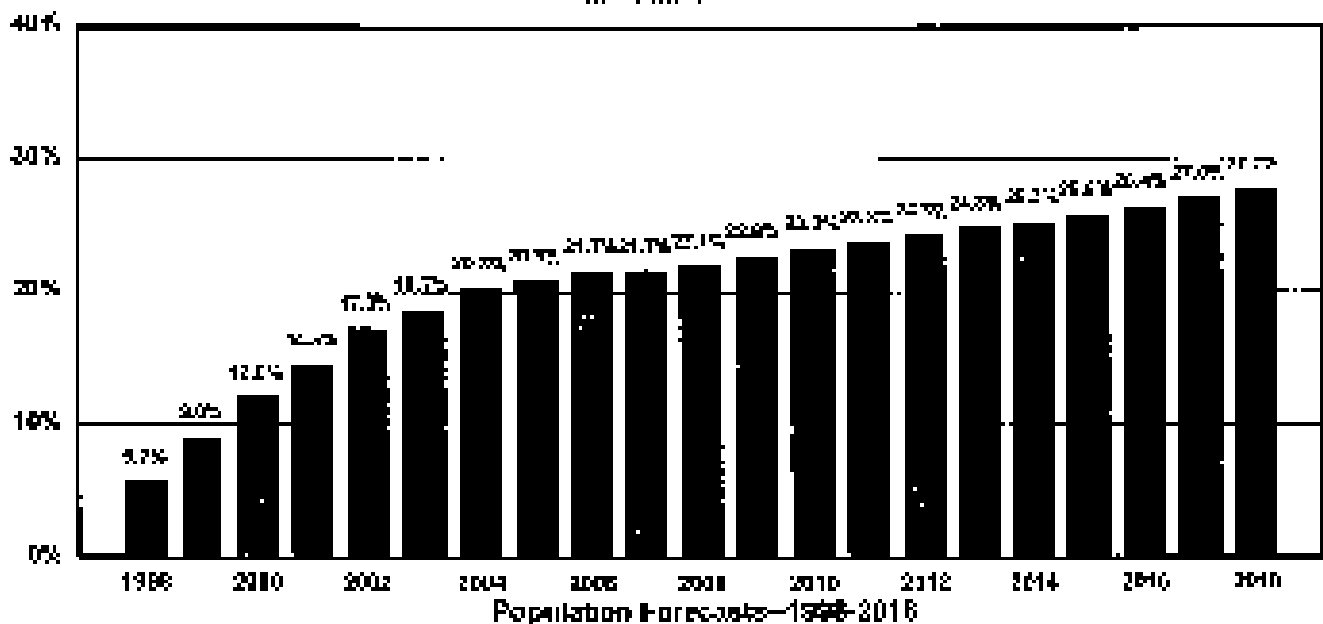
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Bureau of Economic and Water Planning modified forecast

Nye County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Bureau of Economic and Water Planning modified forecast

Pershing County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

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Year	Demographic Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change Population	Start of Local Government Population	Estimate and Forecast MWP Modified	Year-Year Change in Population (Persons)	Year-Year Percent Change Population	Rate of Total State Population
1950	3,297	--	--	1,945	3,222	--	--	1.91%
1951	3,292	78	2.30%	1,976	3,200	78	2.50%	1.92%
1952	3,305	100	3.15%	1,885	3,100	100	3.12%	1.85%
1953	3,400	100	3.05%	1,846	3,400	0	3.05%	1.91%
1954	3,500	100	2.91%	1,767	3,500	100	2.92%	1.75%
1955	3,700	200	5.71%	1,688	3,700	200	5.71%	1.68%
1956	3,800	100	2.70%	1,593	3,800	100	2.70%	1.58%
1957	3,900	100	2.63%	1,508	3,900	100	2.63%	1.56%
1958	4,000	0	0.00%	1,423	3,950	0	0.00%	1.50%
1959	3,850	(150)	-3.75%	1,338	3,800	(100)	-2.56%	1.37%
1960	3,178	(622)	-16.37%	1,107	3,178	(622)	-16.37%	1.10%
1961	3,077	(81)	-2.55%	1,045	3,082	(96)	-2.71%	1.03%
1962	3,051	(26)	-1.00%	995	3,067	(21)	-1.00%	0.99%
1963	2,843	(208)	-6.98%	925	2,814	(213)	-6.96%	0.83%
1964	2,916	73	2.57%	875	2,712	(179)	-6.35%	0.75%
1965	2,822	(94)	-3.20%	825	2,522	(100)	-3.60%	0.72%
1966	2,578	(244)	-8.64%	775	2,425	(54)	-2.13%	0.71%
1967	2,491	(87)	-3.38%	725	2,293	(132)	-5.20%	0.69%
1968	2,544	49	1.92%	675	2,544	(59)	-1.92%	0.69%
1969	2,576	32	0.45%	625	2,616	12	0.15%	0.68%
1970	2,546	(30)	-1.00%	575	2,656	0	0.00%	0.67%
1971	2,660	114	4.48%	525	2,650	(6)	-0.11%	0.66%
1972	2,700	40	1.50%	475	2,700	100	3.70%	0.49%
1973	2,640	(60)	-2.22%	425	2,600	(100)	-3.70%	0.46%
1974	2,600	(40)	-1.51%	375	2,580	0	0.00%	0.44%
1975	2,800	200	7.65%	325	2,800	200	7.65%	0.45%
1976	2,900	100	3.57%	275	2,900	100	3.57%	0.44%
1977	3,000	100	3.45%	225	3,000	100	3.45%	0.44%
1978	3,100	100	3.33%	175	3,100	100	3.33%	0.43%
1979	3,100	0	0.00%	125	3,100	0	0.00%	0.43%
1980	3,400	300	9.68%	75	3,400	300	9.68%	0.42%
1981	3,610	210	5.95%	25	3,510	202	5.94%	0.41%
1982	3,520	(90)	-2.50%	20	3,720	10	0.27%	0.41%
1983	3,410	(110)	-3.12%	15	3,710	(10)	-0.27%	0.41%
1984	3,650	(240)	-7.04%	10	3,650	(160)	-4.37%	0.40%
1985	3,660	10	0.27%	5	3,620	(10)	-0.27%	0.39%
1986	3,500	(160)	-4.37%	0	3,520	(170)	-4.64%	0.39%
1987	4,110	280	7.95%	0	4,110	280	7.95%	0.40%
1988	4,340	230	5.62%	0	4,380	270	6.17%	0.40%
1989	4,570	230	5.25%	0	4,470	(90)	-2.05%	0.39%
1990	4,730	160	3.50%	0	4,590	(80)	-1.79%	0.37%
1991	4,706	(24)	-0.51%	0	4,702	(12)	-0.26%	0.36%
1992	4,800	94	1.99%	0	4,800	100	2.13%	0.36%
1993	4,690	(110)	-2.29%	0	4,580	(10)	-0.21%	0.34%
1994	4,990	300	6.33%	0	4,710	(100)	-2.15%	0.32%
1995	5,140	150	2.99%	0	5,140	250	5.10%	0.33%
1996	6,560	1,420	27.79%	0	6,560	1,420	27.79%	0.37%
1997	6,600	40	0.61%	0	6,600	240	3.63%	0.37%
1998	6,880	280	4.24%	0	6,799	(81)	-1.19%	0.37%
1999	7,100	220	3.20%	0	6,915	(185)	-2.69%	0.36%

Pershing County Population Estimates & Forecasts

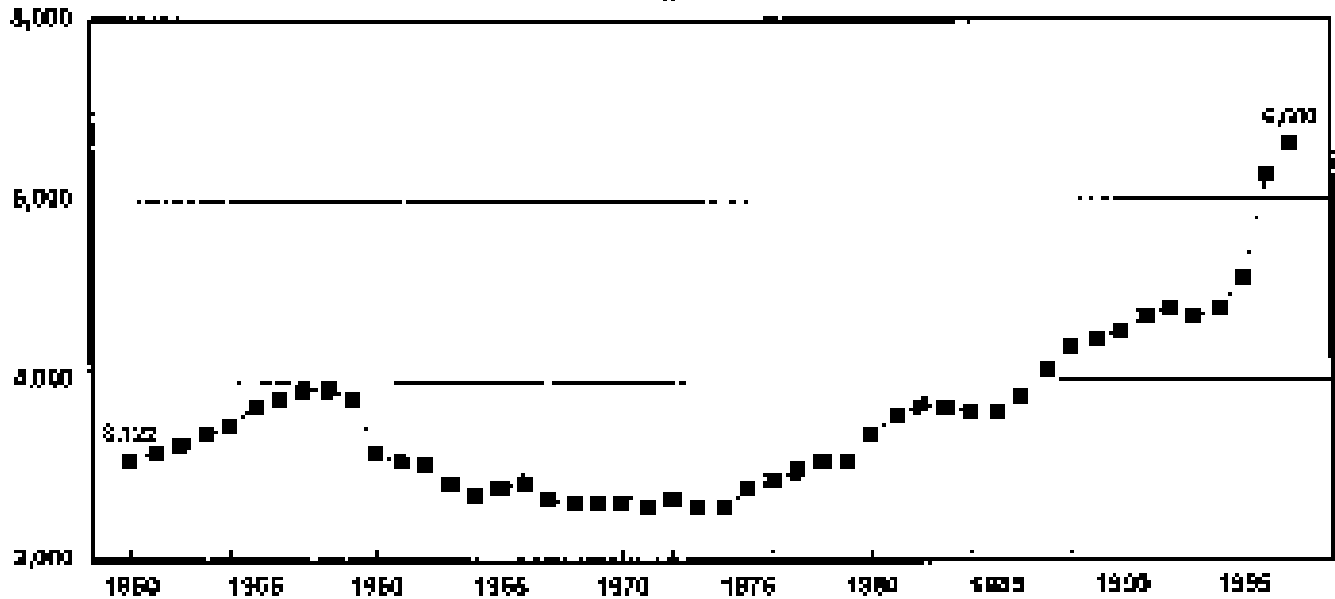
Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Year	Monograph Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population	Estimated and NIPWP Modified Forecasts	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	9,415	90	1.93%	0.30%	7,068	19	2.21%	0.36%
2001	9,500	240	3.24%	0.38%	7,218	150	2.12%	0.39%
2002	9,545	250	3.29%	0.38%	7,378	146	2.02%	0.39%
2003	9,400	250	2.52%	0.38%	7,500	142	1.93%	0.39%
2004	9,400	250	3.19%	0.38%	7,644	138	1.81%	0.39%
2005	9,530	130	2.02%	0.35%	7,777	139	1.74%	0.35%
2006	9,790	260	2.77%	0.35%	7,920	134	1.67%	0.35%
2007	9,950	160	1.62%	0.35%	8,073	129	1.55%	0.32%
2008	9,950	250	2.40%	0.35%	8,141	119	1.45%	0.32%
2009	9,440	270	2.84%	0.35%	8,257	111	1.36%	0.32%
2010	9,710	270	2.86%	0.35%	8,399	104	1.27%	0.32%
2011	9,890	270	2.78%	0.35%	8,527	94	1.12%	0.31%
2012	10,250	270	2.71%	0.34%	8,648	91	1.04%	0.31%
2013	10,530	280	2.72%	0.34%	8,770	84	0.98%	0.31%
2014	10,800	270	2.50%	0.33%	8,708	76	0.89%	0.31%
2015	11,050	280	2.59%	0.34%	8,777	69	0.79%	0.31%
2016	1,340	280	2.52%	0.34%	8,859	61	0.69%	0.30%
2017	1,610	280	2.46%	0.34%	8,911	57	0.64%	0.30%
2018	1,970	270	2.33%	0.34%	8,976	45	0.50%	0.30%
2019	-	-	-	-	8,971	37	0.41%	0.30%
2020	-	-	-	-	9,005	29	0.38%	0.30%
Interdecadal Analysis:		1950-1997	2.1%					
Average Annual Rate:		1950-1997	2.13%					
Decadal Change by Decade:		1960-1970	-1.78%					
Time Period (Percent):		1970-1980	2.32%					
		1980-1990	2.91%					
		1990-1997	2.45%					
Marshall Periods:		1998-2018	1.85%	State Demographic	1.45%	NIPWP Modified Forecast		
		1998-2008	3.03%		1.93%			
		2009-2018	2.63%		0.98%			

Source: Nevada Office of the State Geographer (Population and Area, April 15, 1998); Nevada Division of Water Planning (Clark County population forecast based on Clark County Department of Community Planning forecast); Washoe County population forecast based on forecasts provided by the Washoe County Department of Community Development.

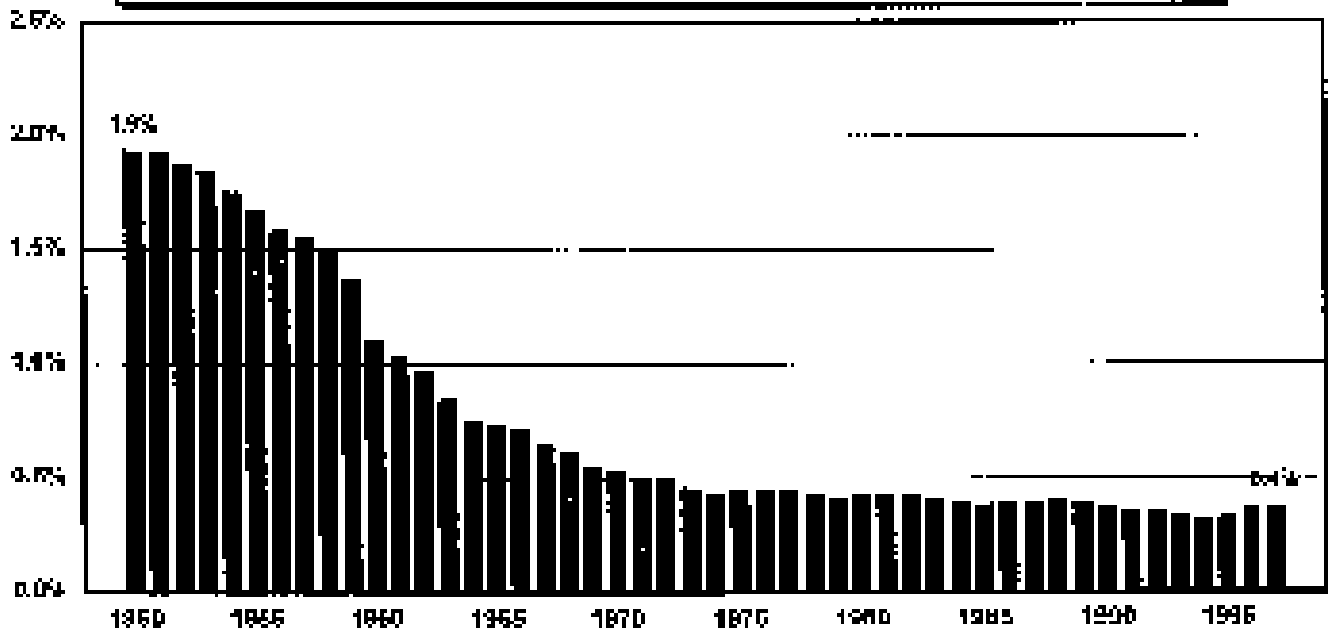
County Population Analysis

Pershing County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Department of Statistics

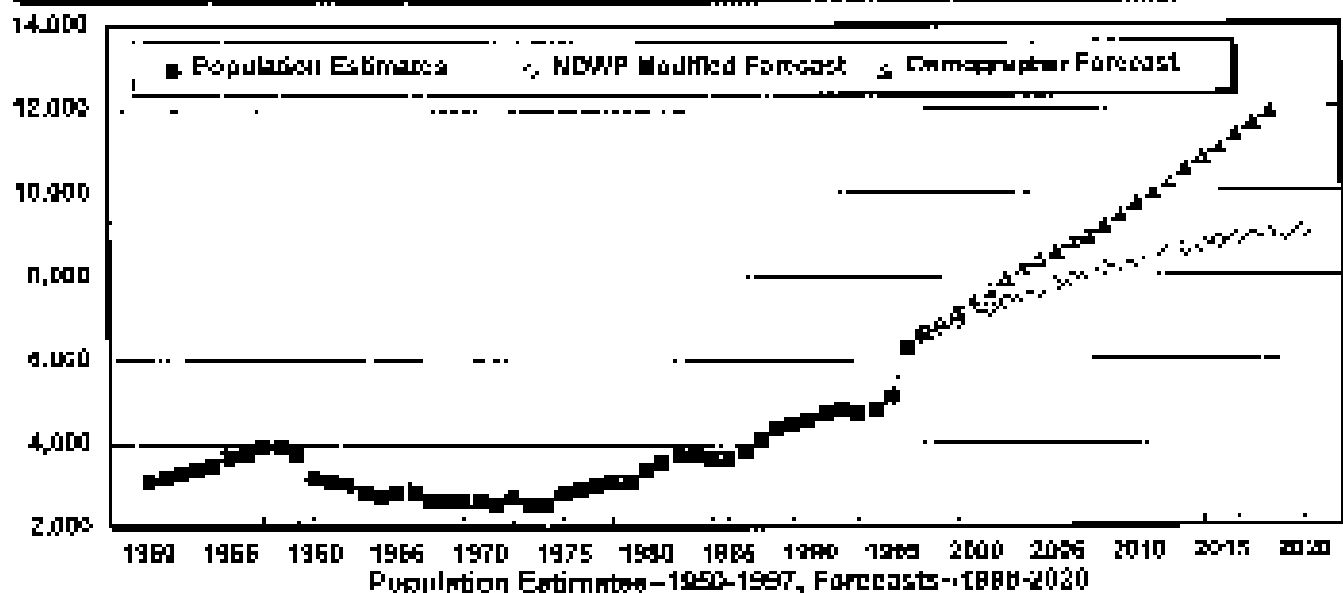
Pershing County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Department of Statistics

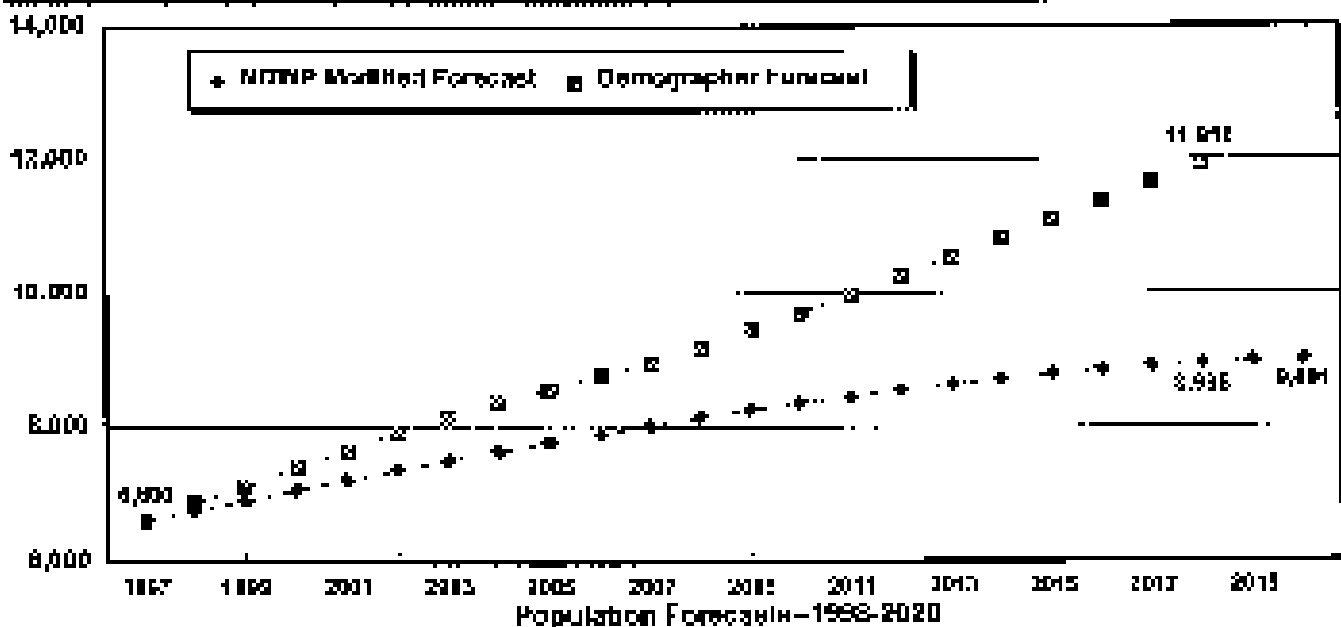
County Population Analysis and Forecasts

Pershing County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada State Census Bureau, and Nevada State Planning Agency

Pershing County Population Forecast Comparisons State Demographer and NDWP Modified - July 1 (Persons)

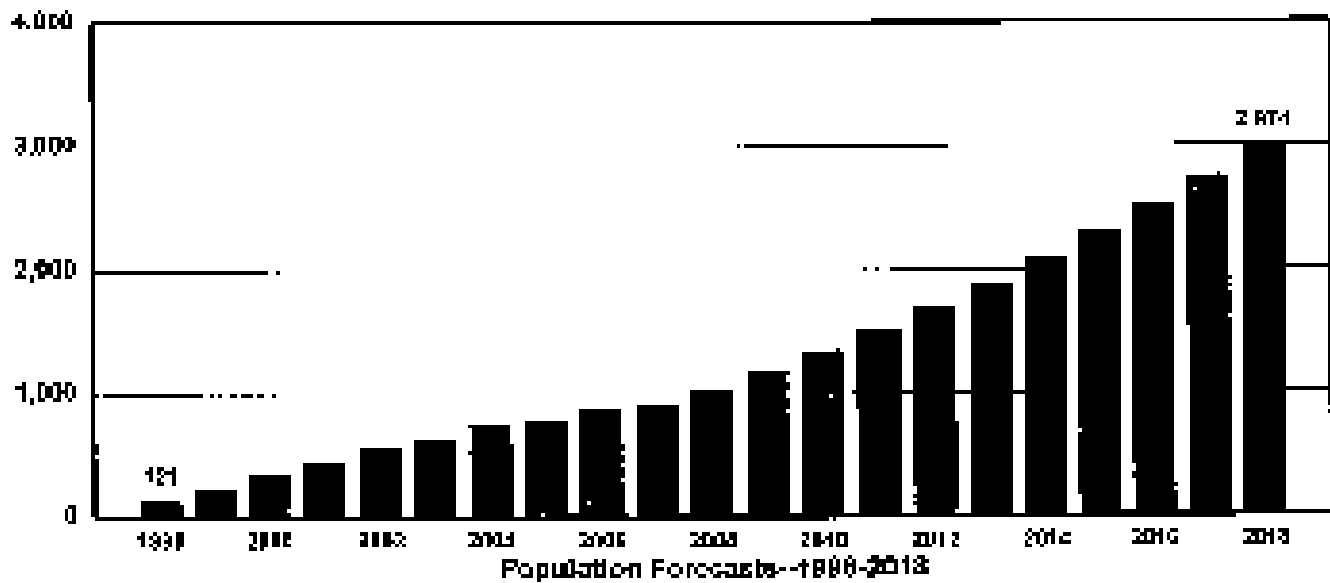


Source: Nevada State Demographer, Nevada State Census Bureau, and Nevada State Planning Agency

County Population Forecast Variances

Pershing County Population Forecast Variances

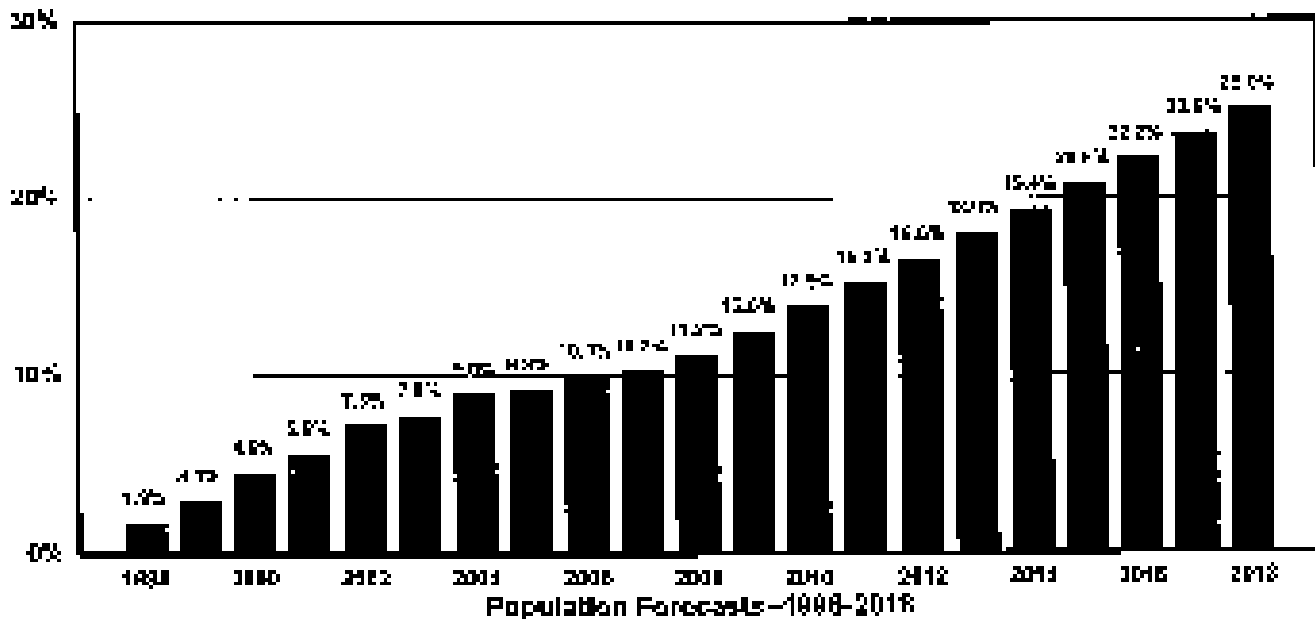
Demographer Forecast Minus NDWP Modified Forecast--July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecast.

Pershing County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast--July 1 (Percent)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecast.

Storey County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Year	Historical Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Balance and SDCP Modified Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	597		-	0.41%	607		-	0.41%
1951	604	(7)	-8.68%	0.42%	600	(57)	-3.68%	0.36%
1952	604	0	0.00%	0.42%	604	0	0.00%	0.34%
1953	620	16	2.65%	0.43%	610	6	0.98%	0.35%
1954	620	0	0.00%	0.43%	607	-3	-0.50%	0.30%
1955	640	20	3.23%	0.43%	700	100	15.63%	0.30%
1956	650	(10)	-1.56%	0.43%	600	(100)	-14.29%	0.28%
1957	650	0	0.00%	0.41%	600	0	0.00%	0.24%
1958	640	(10)	-1.54%	0.39%	600	0	0.00%	0.21%
1959	630	(10)	-1.56%	0.37%	600	0	0.00%	0.22%
1960	571	(59)	-9.35%	0.30%	571	(29)	-4.81%	0.20%
1961	582	11	1.93%	0.28%	582	11	1.93%	0.20%
1962	615	33	5.69%	0.28%	515	(3)	-0.67%	0.19%
1963	620	(5)	-0.81%	0.28%	597	(14)	-2.37%	0.18%
1964	521	(99)	-15.97%	0.18%	521	(40)	-7.71%	0.18%
1965	653	132	25.34%	0.17%	565	17	20.30%	0.17%
1966	684	31	4.75%	0.17%	548	(16)	-2.87%	0.17%
1967	678	(6)	-0.88%	0.17%	600	(2)	-0.33%	0.18%
1968	654	(24)	-3.54%	0.16%	604	(4)	-0.66%	0.15%
1969	696	42	6.42%	0.16%	696	62	9.06%	0.14%
1970	696	0	0.00%	0.15%	656	0	0.00%	0.14%
1971	700	4	0.58%	0.15%	700	4	0.57%	0.13%
1972	800	100	14.29%	0.15%	800	100	14.29%	0.12%
1973	800	0	0.00%	0.14%	800	0	0.00%	0.11%
1974	940	140	17.50%	0.14%	950	10	1.05%	0.13%
1975	900	(40)	-4.26%	0.13%	900	0	0.00%	0.12%
1976	1,000	100	11.11%	0.13%	1,000	100	11.11%	0.11%
1977	1,000	0	0.00%	0.13%	1,000	0	0.00%	0.11%
1978	1,000	0	0.00%	0.13%	1,100	100	10.00%	0.11%
1979	1,000	(20)	-2.00%	0.12%	1,200	200	19.05%	0.11%
1980	1,300	300	30.00%	0.12%	1,300	200	15.38%	0.11%
1981	1,300	0	0.00%	0.12%	1,300	0	0.00%	0.10%
1982	1,300	0	0.00%	0.10%	1,300	0	0.00%	0.10%
1983	1,700	400	30.77%	0.10%	1,350	40	2.97%	0.10%
1984	1,700	0	0.00%	0.10%	1,380	30	2.20%	0.10%
1985	1,800	100	5.88%	0.10%	1,350	(30)	-2.22%	0.10%
1986	1,900	100	5.56%	0.10%	1,560	110	7.00%	0.10%
1987	2,100	200	9.47%	0.10%	1,700	140	8.97%	0.11%
1988	2,100	0	0.00%	0.10%	2,240	140	8.24%	0.10%
1989	2,400	300	14.29%	0.10%	2,480	80	3.33%	0.11%
1990	2,500	100	4.17%	0.10%	2,500	0	0.00%	0.11%
1991	2,720	220	8.80%	0.10%	2,720	220	8.00%	0.10%
1992	2,820	100	3.68%	0.10%	2,800	(20)	-0.73%	0.11%
1993	2,850	30	1.06%	0.10%	2,850	0	0.00%	0.10%
1994	3,100	250	8.77%	0.10%	3,100	250	8.07%	0.11%
1995	3,200	100	3.23%	0.10%	3,200	100	3.23%	0.10%
1996	3,300	100	3.13%	0.10%	3,320	20	0.61%	0.10%
1997	3,320	20	0.60%	0.10%	3,500	180	5.42%	0.10%
1998	3,600	280	8.43%	0.10%	3,600	0	0.00%	0.10%
1999	3,700	100	2.78%	0.09%	3,600	(100)	-2.70%	0.09%

Stoney County Population Estimates & Forecasts

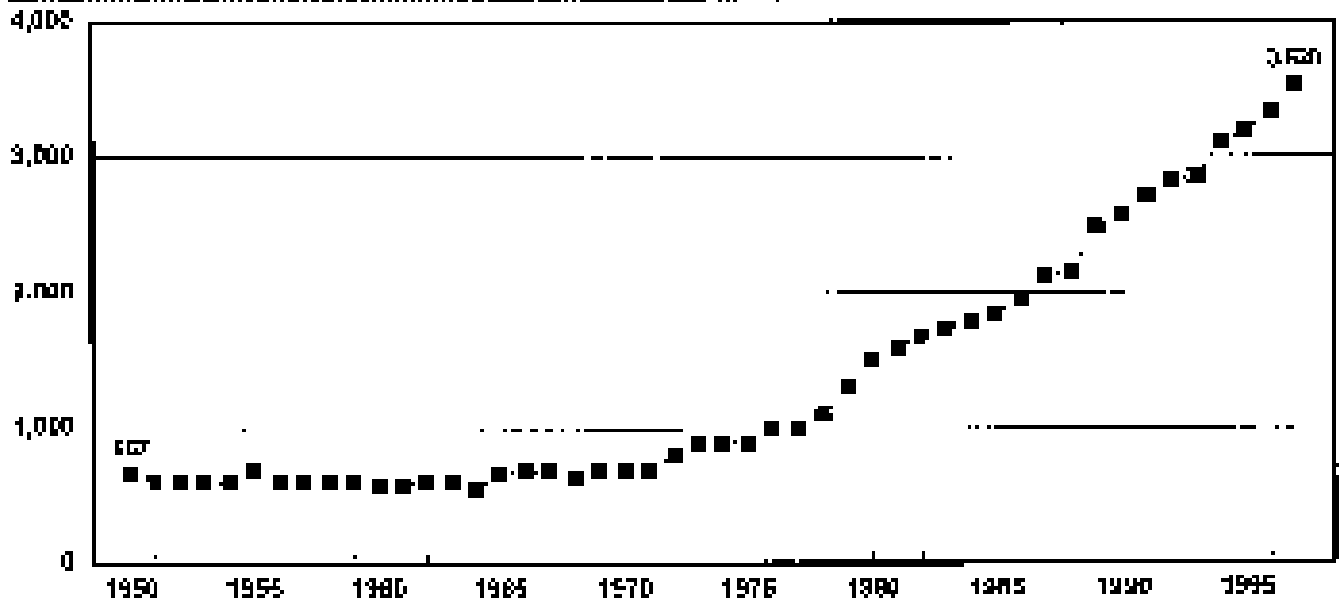
Population Estimates (1950-1997) and Forecasts (1998-2020)—July 1st (Persons)

Year	Demographer Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population	Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	3,850	60	1.58%	0.19%	3,770	80	2.10%	0.19%
2001	3,880	30	0.78%	0.18%	3,355	52	1.58%	0.19%
2002	3,900	20	0.52%	0.18%	3,875	20	0.52%	0.18%
2003	4,000	100	2.56%	0.18%	4,010	30	0.75%	0.18%
2004	4,100	100	2.50%	0.19%	4,094	78	1.91%	0.18%
2005	4,160	60	1.45%	0.17%	4,270	25	0.59%	0.18%
2006	4,270	110	2.64%	0.17%	4,344	74	1.71%	0.18%
2007	4,360	90	2.08%	0.17%	4,415	72	1.63%	0.17%
2008	4,320	60	1.39%	0.16%	4,296	20	0.47%	0.17%
2009	4,380	60	1.39%	0.16%	4,474	78	1.74%	0.17%
2010	4,460	80	1.82%	0.16%	4,519	59	1.30%	0.17%
2011	4,530	70	1.57%	0.16%	4,581	52	1.13%	0.17%
2012	4,600	70	1.54%	0.15%	4,640	60	1.29%	0.17%
2013	4,680	80	1.72%	0.15%	4,697	57	1.22%	0.17%
2014	4,750	70	1.48%	0.15%	4,751	54	1.14%	0.17%
2015	4,810	60	1.27%	0.15%	4,801	50	1.04%	0.17%
2016	4,870	60	1.23%	0.15%	4,848	47	0.98%	0.17%
2017	4,900	30	0.61%	0.15%	4,892	44	0.90%	0.17%
2018	4,950	50	1.02%	0.14%	4,932	40	0.81%	0.16%
2019	-	-	-	-	4,969	36	0.72%	0.16%
2020	-	-	-	-	5,001	32	0.64%	0.16%
Growth Rate Analysis		1950-1997	3.51%					
Average Annual Rate		1950-1990	-1.50%					
% Change by Decade		1960-1970	2.96%					
Time Period (years)		1970-1980	3.00%					
		1990-1997	3.42%					
		1990-1997	4.63%					
Forecast Periods:		1998-2018	1.72%	State Demographers	1.61%	MWFP Modified Forecast		
		1998-2008	1.88%		2.62%			
		2008-2018	1.56%		1.22%			

Source: Nevada Office of the State Demographer (Data collected by July 1, 1997); Nevada Division of Water Planning (Clark County population forecast based on Clark County Department of Comprehensive Planning, Nevada); Washoe County population forecast based on forecast provided by the Washoe County Department of Community Development.

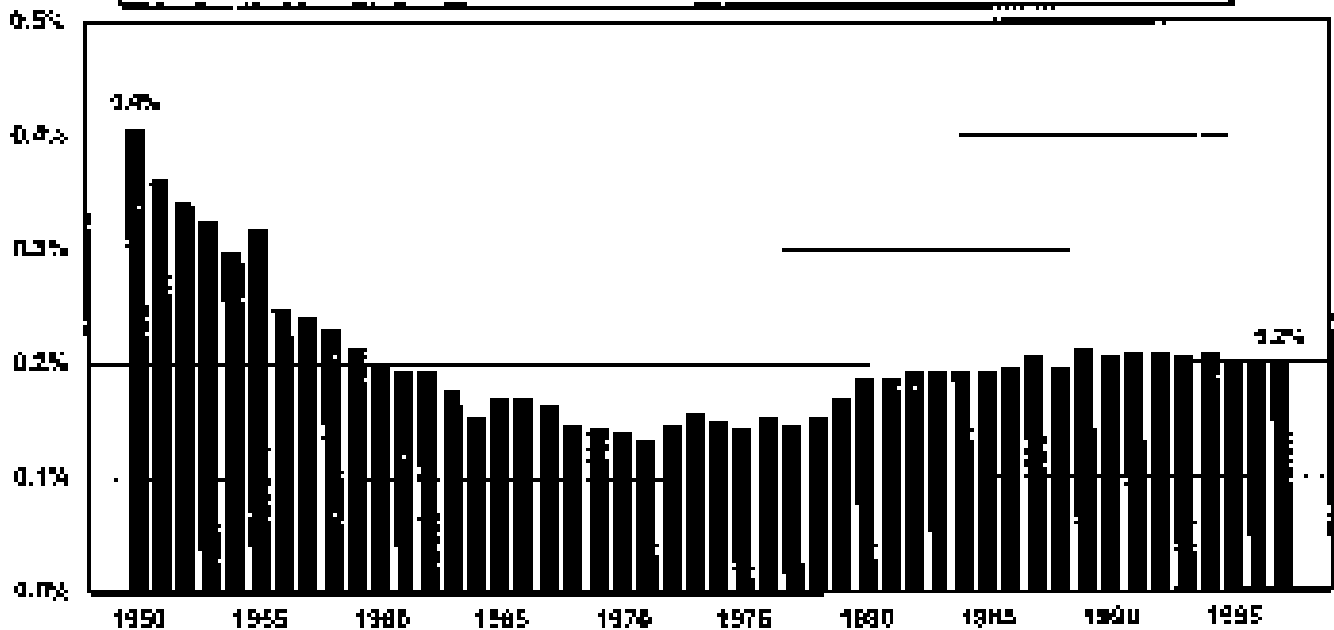
County Population Analysis

Storey County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: U.S. Census Bureau, 1950-1990

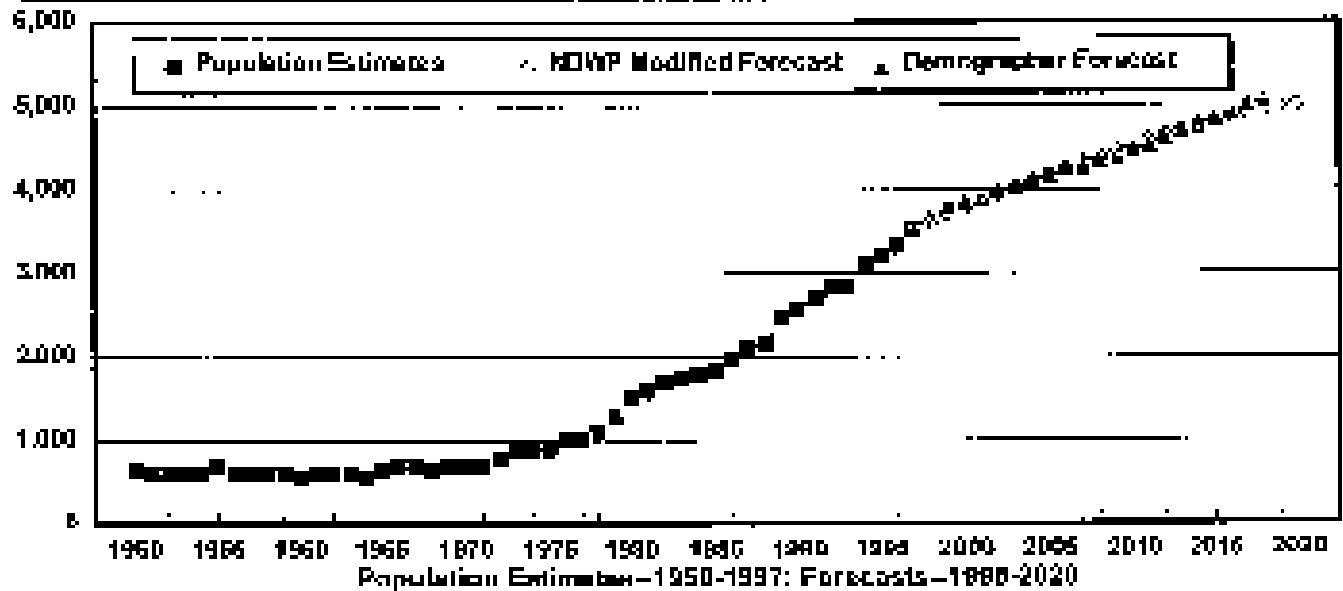
Storey County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Demographer

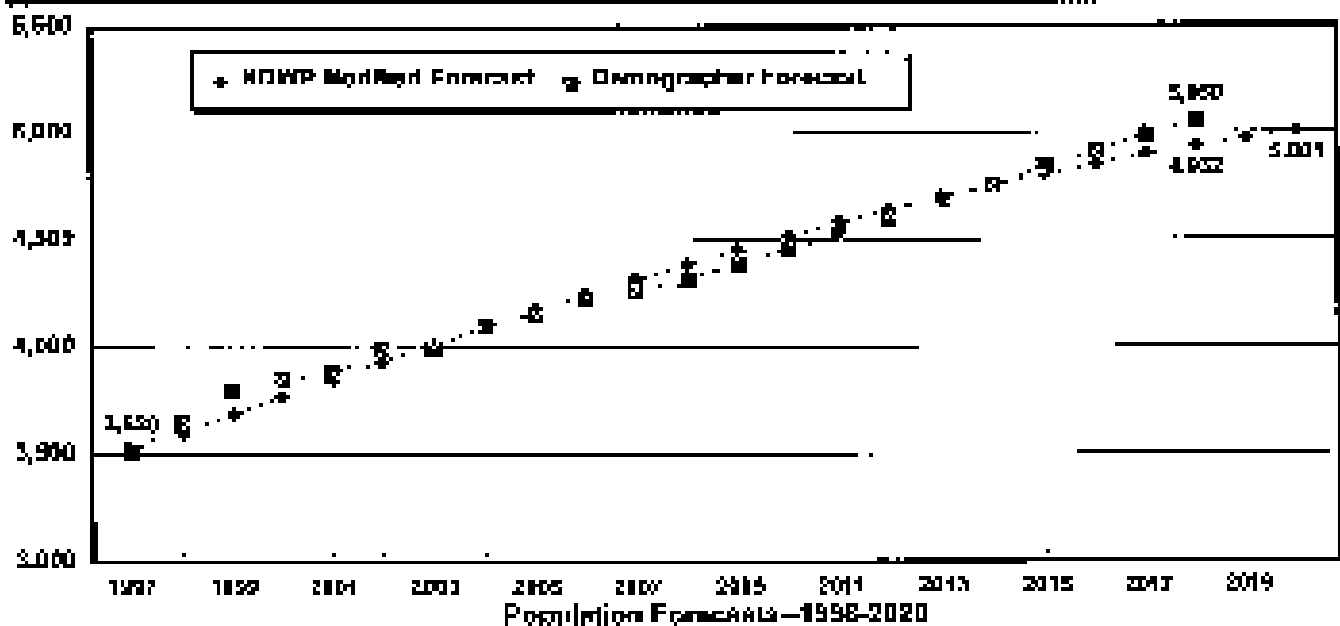
County Population Analysis and Forecasts

Storey County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of State Planning and Forecasting

Storey County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

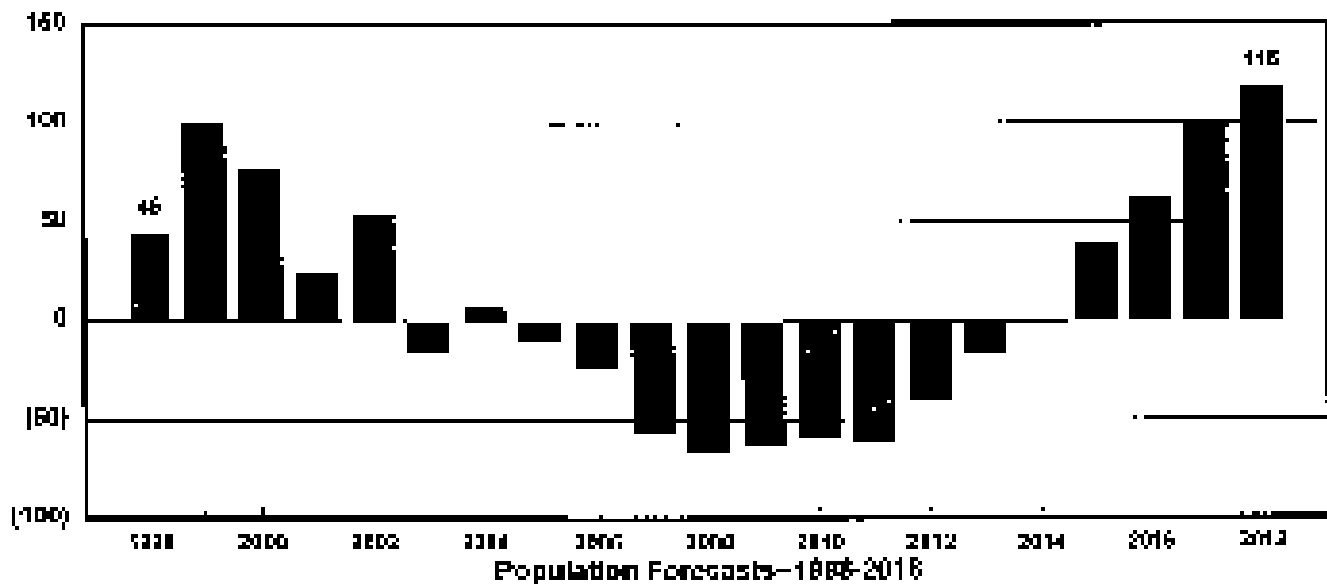


Source: Nevada State Demographer, Nevada Division of State Planning and Forecasting

County Population Forecast Variances

Storey County Population Forecast Variances

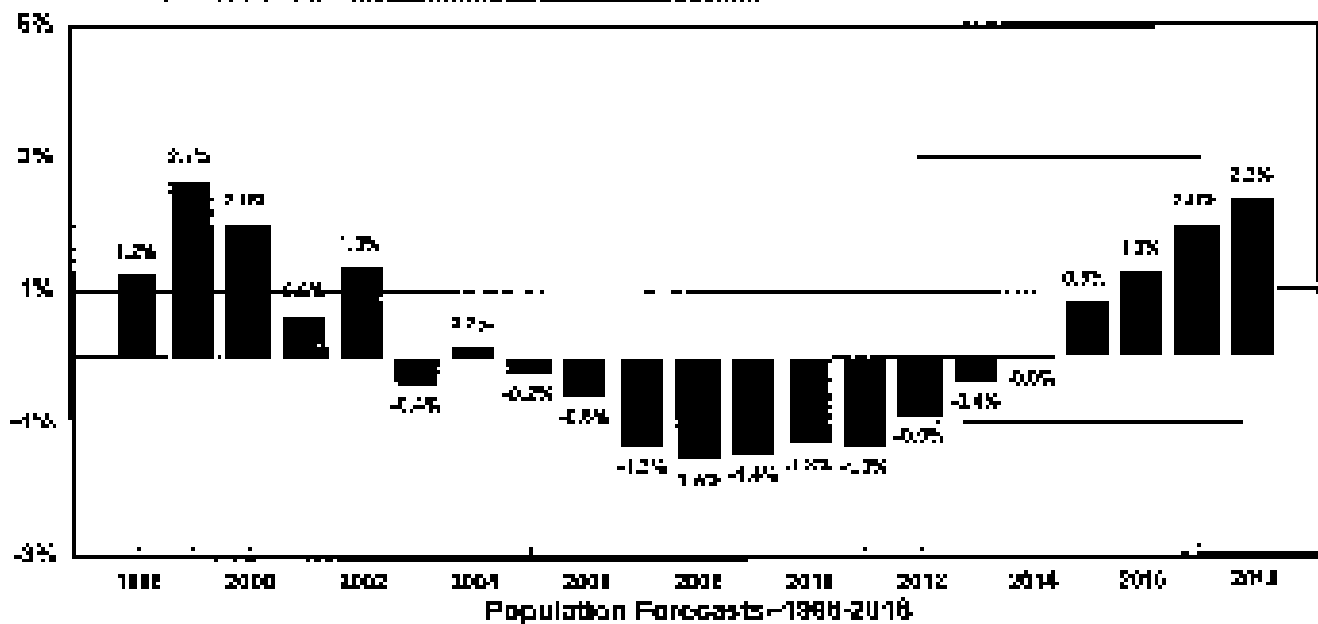
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning modified forecast

Storey County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Nevada Division of Water Planning modified forecast

Washoe County Population Estimates & Forecasts

Population Estimates (1954-1997) and Forecasts (1998-2024)—July 1st (Persons)

Page 1 of 3

Year	Population Estimate and Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population	Estimate and Forecast 2000F Model-1 Forecast	Year-Year Change in Population (Percent)	Year-Year Percent Change	Share of Total State Population
1950	30,484	--	--	31.53%	30,484	--	--	31.32%
1951	31,600	116	2.11%	31.46%	31,600	1,116	2.21%	31.29%
1952	33,006	2,406	4.25%	30.73%	33,006	2,406	4.25%	30.70%
1953	33,100	4,100	7.39%	31.47%	33,100	4,100	7.39%	31.47%
1954	34,000	4,900	7.13%	30.28%	34,000	2,600	4.13%	30.19%
1955	35,200	4,700	7.77%	29.61%	35,200	1,600	7.77%	29.61%
1956	38,300	7,300	4.40%	28.95%	38,300	2,700	6.20%	28.90%
1957	39,600	5,100	3.99%	29.20%	39,600	4,100	3.99%	29.20%
1958	40,000	3,000	4.1%	29.32%	40,000	1,000	4.1%	29.32%
1959	41,300	5,000	6.47%	29.50%	41,300	5,300	6.97%	29.50%
1960	44,985	3,685	4.54%	29.54%	44,985	3,685	4.54%	29.54%
1961	45,367	382	.1%	28.73%	45,367	382	.1%	28.93%
1962	49,500	7,600	3.12%	29.09%	49,500	2,670	3.12%	29.09%
1963	51,700	3,000	2.42%	29.31%	51,700	1,900	3.43%	29.21%
1964	53,200	3,384	3.0%	28.46%	53,200	3,384	3.0%	28.46%
1965	55,400	3,100	3.51%	28.56%	55,400	2,100	3.51%	28.56%
1966	56,300	2,900	2.84%	28.33%	56,300	2,900	2.84%	28.33%
1967	56,541	(215)	-0.77%	28.73%	56,541	(215)	-0.77%	28.73%
1968	56,700	3,000	3.0%	28.21%	56,700	3,200	3.0%	28.21%
1969	58,192	10,110	5.35%	28.32%	58,192	10,410	5.35%	28.32%
1970	58,374	3,382	2.84%	28.76%	58,374	3,374	2.84%	28.76%
1971	58,600	4,000	4.4%	28.73%	58,600	6,000	4.4%	28.73%
1972	59,400	6,800	5.20%	28.76%	59,400	4,800	5.20%	28.76%
1973	61,000	3,600	4.4%	28.77%	61,000	3,600	4.4%	28.77%
1974	62,000	5,000	5.51%	28.95%	62,000	5,400	4.51%	28.90%
1975	62,200	1,800	3.20%	28.51%	62,200	4,800	3.20%	28.59%
1976	63,700	6,500	4.27%	28.54%	63,700	6,500	4.27%	28.54%
1977	65,400	9,100	4.94%	28.99%	65,400	7,100	5.73%	28.93%
1978	67,800	9,300	5.91%	28.69%	67,800	9,800	5.64%	28.69%
1979	67,200	6,000	3.41%	28.40%	67,200	9,600	3.41%	28.40%
1980	68,500	6,400	3.93%	28.4%	68,500	6,400	3.93%	28.4%
1981	69,600	9,000	4.16%	28.33%	69,600	8,000	4.16%	28.33%
1982	70,100	3,400	1.7%	28.33%	70,100	3,400	1.7%	28.33%
1983	70,900	5,360	2.8%	28.37%	70,900	5,360	2.8%	28.37%
1984	71,800	7,000	3.7%	28.66%	71,800	7,100	3.47%	28.66%
1985	72,400	6,200	2.87%	28.50%	72,400	6,200	2.87%	28.50%
1986	73,200	5,900	1.9%	28.4%	73,200	7,800	3.7%	28.36%
1987	73,900	6,000	2.62%	28.56%	73,900	6,000	2.62%	28.56%
1988	74,800	6,300	2.34%	28.34%	74,800	6,300	2.34%	28.34%
1989	75,500	4,500	2.7%	27.61%	75,500	6,000	2.7%	27.64%
1990	75,120	5,000	2.20%	28.80%	75,120	5,500	2.20%	28.80%
1991	75,710	5,900	2.66%	28.82%	75,710	6,000	2.66%	28.80%
1992	76,350	7,000	1.2%	19.51%	76,350	3,045	1.2%	19.37%
1993	77,800	5,000	1.91%	19.43%	77,800	5,000	1.91%	19.43%
1994	79,300	7,900	2.41%	18.95%	79,300	7,000	2.92%	18.66%
1995	79,600	11,200	4.01%	18.43%	79,600	11,200	4.01%	18.40%
1996	80,240	12,100	4.9%	18.00%	80,240	12,100	4.9%	18.00%
1997	80,000	5,000	1.80%	17.91%	80,000	5,400	1.80%	17.91%
1998	80,200	6,000	3.53%	17.06%	80,200	6,000	3.53%	17.06%
999	80,810	4,000	1.90%	16.46%	80,810	6,700	2.15%	16.31%

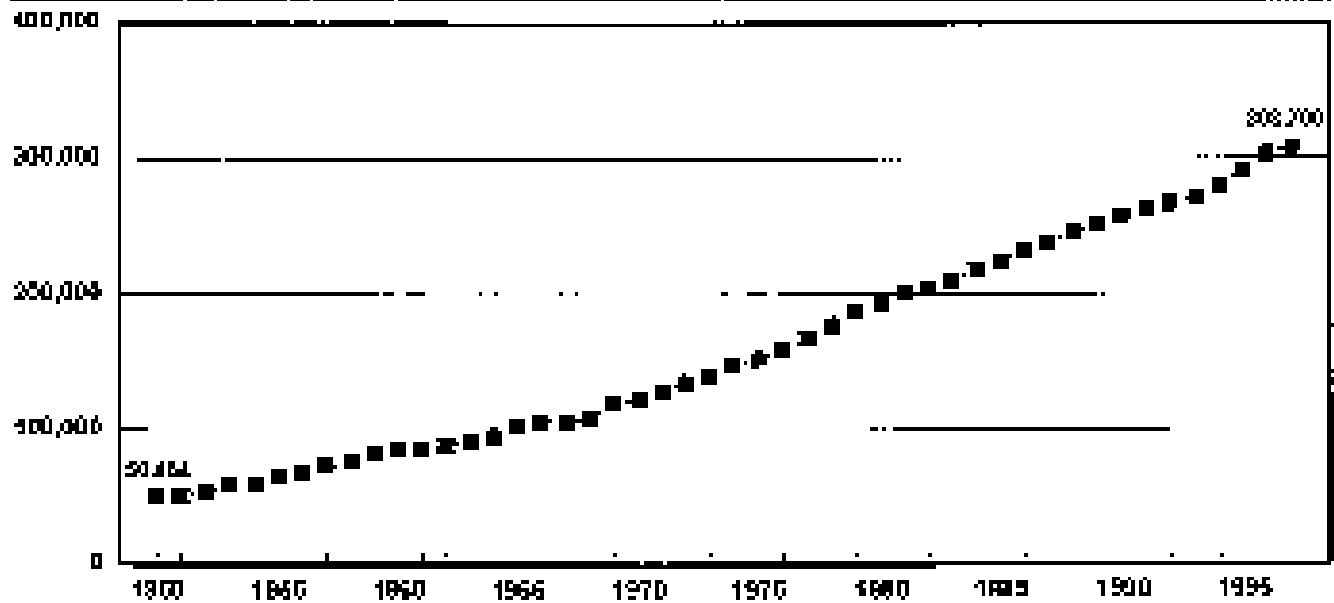
Washoe County Population Estimates & Forecasts
Population Estimates (1950-1997) and Forecasts (1998-2020) July 1st (Unaudited)

Year	Demographic Estimate and Forecast	Change in Population		Share of Total State Population		Estimate and MOWP Modified Forecasts	Change in Population		Share of Total State Population	
		(Persons)	Percent Change	(State Population)	(Percent)		(Persons)	Percent Change	(State Population)	
2000	327,350	3,020	0.9%	16.12%		329,021	6,050	1.87%	16.56%	
2001	331,200	3,850	1.1%	16.61%		333,732	6,355	2.01%	16.93%	
2002	336,450	5,250	1.57%	17.20%		338,416	6,607	2.00%	17.04%	
2003	343,465	7,015	2.06%	17.83%		343,104	6,585	1.94%	17.32%	
2004	351,630	8,165	2.38%	18.53%		348,710	6,580	1.89%	17.64%	
2005	361,000	9,370	2.67%	19.31%		353,290	6,580	1.84%	17.97%	
2006	371,650	10,650	2.95%	20.17%		360,745	6,445	1.79%	18.32%	
2007	383,540	11,890	3.21%	21.12%		368,153	6,408	1.74%	18.69%	
2008	396,690	13,150	3.44%	22.14%		374,570	6,417	1.69%	19.08%	
2009	411,040	14,350	3.62%	23.22%		381,975	6,245	1.61%	19.49%	
2010	426,690	15,650	3.80%	24.36%		389,361	6,149	1.56%	19.92%	
2011	443,640	17,000	3.99%	25.55%		396,729	6,015	1.51%	20.36%	
2012	461,890	18,250	4.13%	26.79%		404,067	5,954	1.45%	20.81%	
2013	481,440	19,550	4.25%	28.08%		411,377	5,814	1.42%	21.27%	
2014	502,290	20,850	4.35%	29.41%		417,664	5,667	1.36%	21.74%	
2015	524,440	22,150	4.40%	30.78%		423,917	5,753	1.33%	22.21%	
2016	547,890	23,450	4.45%	32.18%		429,127	5,410	1.26%	22.68%	
2017	572,640	24,750	4.52%	33.61%		433,388	5,261	1.21%	23.15%	
2018	600,000	27,360	4.78%	35.07%		437,651	5,704	1.29%	23.62%	
2019	--	--	--	--		442,001	4,350	1.03%	24.09%	
2020	--	--	--	--		446,400	4,709	1.07%	24.56%	
Overall Rate Analysis		1950-1997	3.02%							
Average Annual Rate		1990-1990	3.02%							
of Change by Decade		1960-1970	3.75%							
Total Percent of Growth		1970-1980	4.48%							
		1980-1990	2.88%							
		1990-1997	3.46%							
Forecast Periods:		1998-2018	1.81%	State Demographic			0.89%	MOWP Modified Forecast		
		1998-2008	1.84%				1.04%			
		2008-2018	0.86%				1.42%			

Source: Nevada Office of the State Demographer (Historical data up to April 15, 1998), Nevada Division of Water Planning (Clark County population records based on Clark County Department of Computer and Planning records, Washoe County population forecasts based on records provided by the Washoe County Department of Community Development)

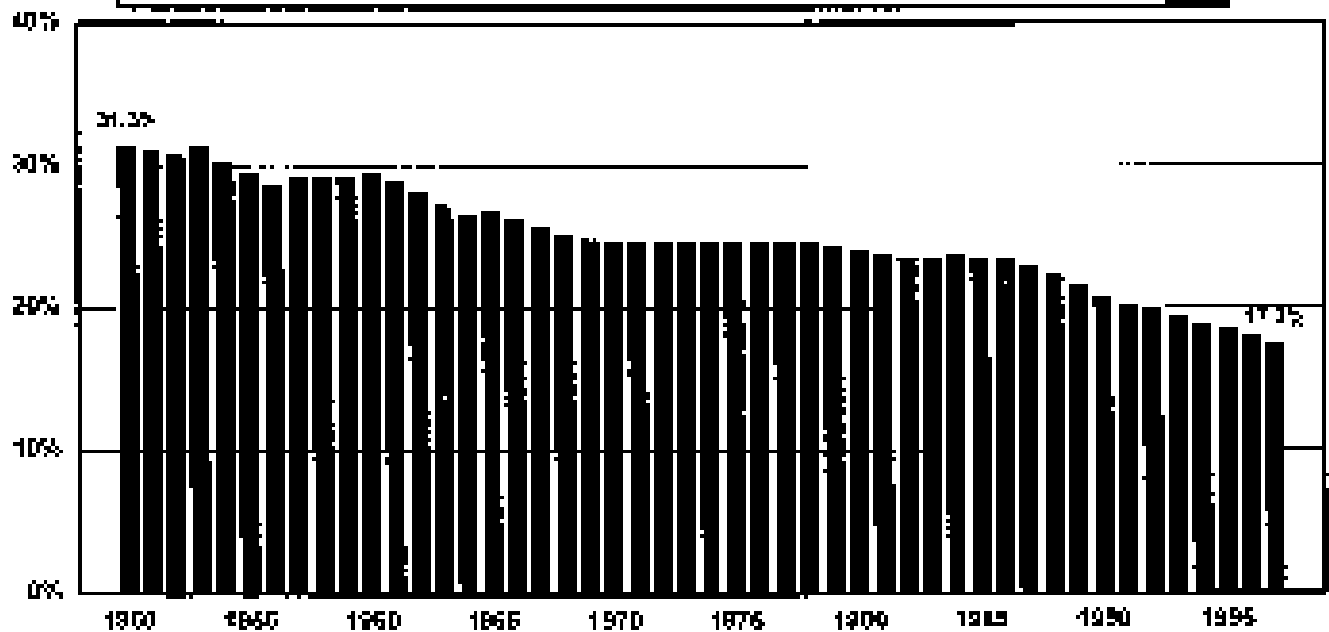
County Population Analysis

Washoe County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Demography

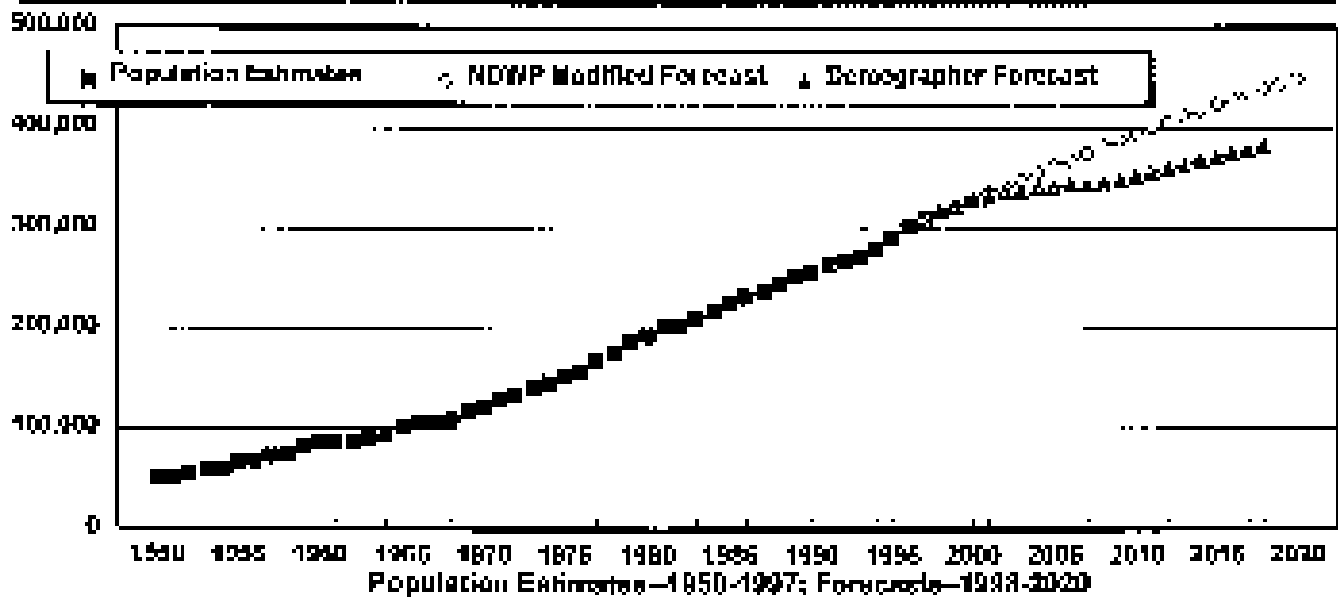
Washoe County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Demography

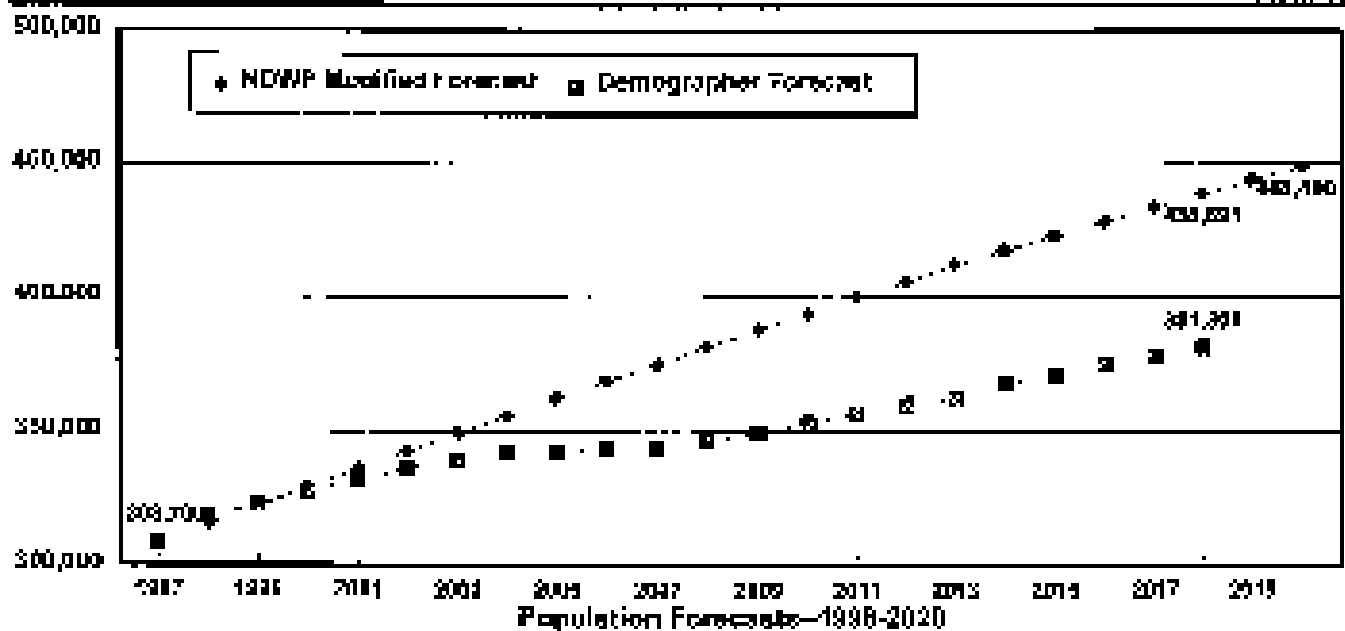
County Population Analysis and Forecasts

Washoe County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Office of Economic Development, Nevada Division of Water Planning, modified version

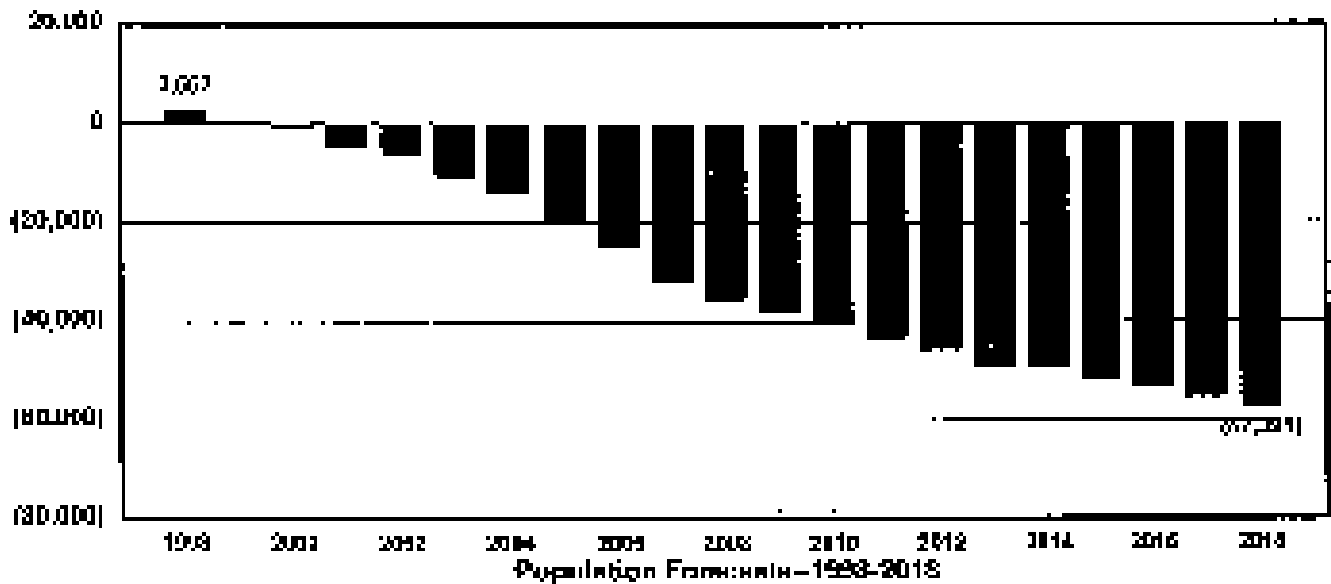
Washoe County Population Forecast Comparisons State Demographer and NDWP Modified--July 1 (Persons)



Source: Nevada State Office of Economic Development, Nevada Division of Water Planning, modified version

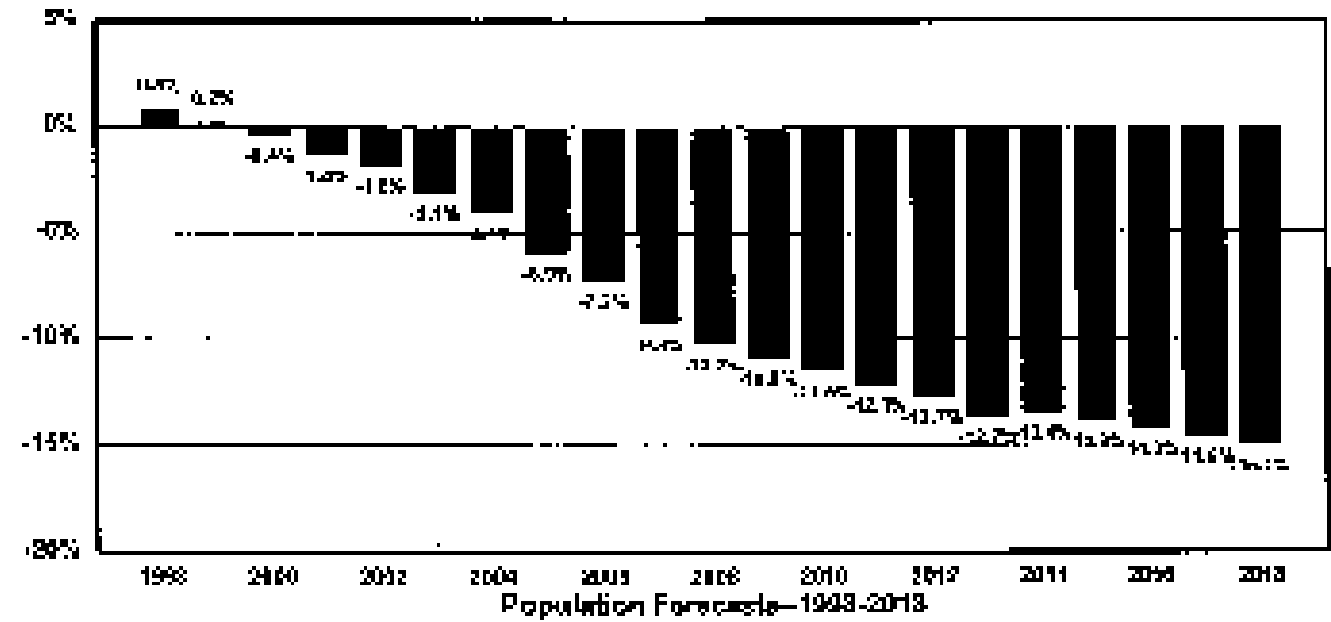
County Population Forecast Variances

Washoe County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecast.

Washoe County Population Forecast Variances
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer; Nevada Division of Water Planning modified forecast.

White Pine County Population Estimates & Forecasts

Population Estimates (1950-1997) and Forecasts (1998-2020) - July 1st (Persons)

Year	Population Estimate and Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population	Estimate of MWP Modified Forecast	Year-Year Change in Population (Persons)	Year-Year Percent Change	Share of Total State Population
1950	8,119		--	0.88%	8,119	--	--	0.88%
1951	8,701	221	2.72%	0.89%	8,701	221	2.72%	0.88%
1952	9,150	449	5.15%	0.91%	9,150	449	5.15%	0.91%
1953	9,538	388	4.24%	0.92%	9,538	388	4.24%	0.92%
1954	10,800	1,262	13.23%	0.94%	10,800	1,262	13.23%	0.94%
1955	11,600	800	7.41%	0.97%	11,600	800	7.41%	0.97%
1956	12,100	500	4.31%	0.98%	12,100	500	4.31%	0.98%
1957	12,500	400	3.31%	0.99%	12,500	400	3.31%	0.99%
1958	12,500	0	0.00%	0.99%	12,500	0	0.00%	0.99%
1959	12,300	-200	-1.60%	0.98%	12,300	-200	-1.60%	0.98%
1960	9,100	-3,200	-26.83%	0.79%	9,100	-3,200	-26.83%	0.79%
1961	9,426	326	3.58%	0.79%	9,426	326	3.58%	0.79%
1962	9,500	74	0.78%	0.80%	9,500	74	0.78%	0.80%
1963	9,517	17	0.18%	0.80%	9,517	17	0.18%	0.80%
1964	8,510	-1,007	-10.58%	0.76%	8,510	-1,007	-10.58%	0.76%
1965	8,131	-379	-4.45%	0.74%	8,131	-379	-4.45%	0.74%
1966	8,001	-130	-1.60%	0.73%	8,001	-130	-1.60%	0.73%
1967	8,000	-1	-0.01%	0.73%	8,000	-1	-0.01%	0.73%
1968	8,074	74	0.93%	0.73%	8,074	74	0.93%	0.73%
1969	10,080	1,986	24.54%	0.77%	10,080	1,986	24.54%	0.77%
1970	10,140	60	0.59%	0.78%	10,140	60	0.59%	0.78%
1971	10,100	-40	-0.39%	0.78%	10,100	-40	-0.39%	0.78%
1972	10,200	100	0.99%	0.78%	10,200	100	0.99%	0.78%
1973	9,900	-300	-2.94%	0.76%	9,900	-300	-2.94%	0.76%
1974	9,900	0	0.00%	0.76%	9,900	0	0.00%	0.76%
1975	9,500	-400	-4.04%	0.74%	9,500	-400	-4.04%	0.74%
1976	9,600	100	1.05%	0.74%	9,600	100	1.05%	0.74%
1977	8,600	-1,000	-10.42%	0.71%	8,600	-1,000	-10.42%	0.71%
1978	8,500	-100	-1.16%	0.71%	8,500	-100	-1.16%	0.71%
1979	8,100	-400	-4.71%	0.68%	8,100	-400	-4.71%	0.68%
1980	8,500	400	4.94%	0.70%	8,500	400	4.94%	0.70%
1981	8,600	100	1.18%	0.70%	8,600	100	1.18%	0.70%
1982	7,700	-900	-10.45%	0.67%	7,700	-900	-10.45%	0.67%
1983	7,700	0	0.00%	0.67%	7,700	0	0.00%	0.67%
1984	7,700	0	0.00%	0.67%	7,700	0	0.00%	0.67%
1985	7,850	150	1.95%	0.67%	7,850	150	1.95%	0.67%
1986	8,000	150	1.91%	0.67%	8,000	150	1.91%	0.67%
1987	8,590	590	7.38%	0.70%	8,590	590	7.38%	0.70%
1988	8,590	0	0.00%	0.70%	8,590	0	0.00%	0.70%
1989	8,650	60	0.70%	0.70%	8,650	60	0.70%	0.70%
1990	9,110	460	5.32%	0.73%	9,110	460	5.32%	0.73%
1991	9,480	370	4.06%	0.74%	9,480	370	4.06%	0.74%
1992	9,700	220	2.32%	0.74%	9,700	220	2.32%	0.74%
1993	9,500	-200	-2.06%	0.73%	9,500	-200	-2.06%	0.73%
1994	9,270	-230	-2.42%	0.72%	9,270	-230	-2.42%	0.72%
1995	9,500	230	2.48%	0.72%	9,500	230	2.48%	0.72%
1996	10,400	900	9.47%	0.76%	10,400	900	9.47%	0.76%
1997	10,640	240	2.31%	0.76%	10,640	240	2.31%	0.76%
1998	10,700	60	0.56%	0.76%	10,700	60	0.56%	0.76%
1999	10,820	120	1.12%	0.76%	10,820	120	1.12%	0.76%

White Pine County Population Estimates & Forecasts

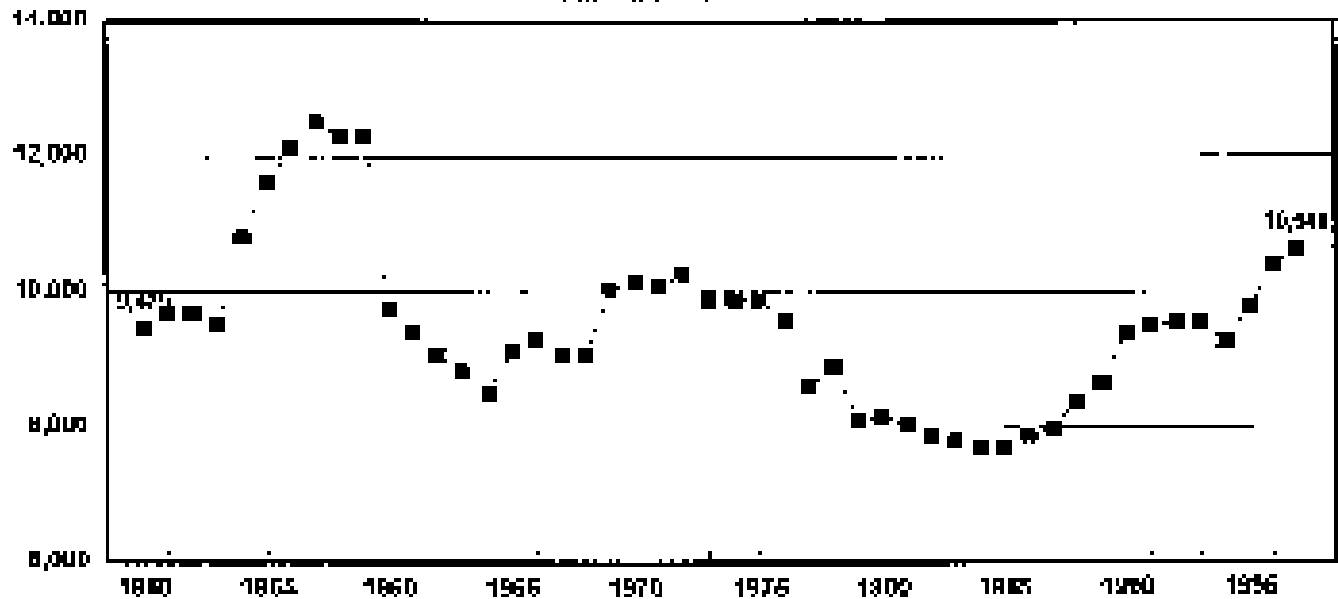
Population Estimates (1990-1997) and Forecasts (1998-2020), July 1st (Persons)

Year	Demographer Estimate and Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population	Estimate and NDWP Modified Forecast	Change in Population (Persons)	Percent Change	Share of Total State Population
2000	11,150	95	0.8%	0.53%	11,055	118	1.08%	0.55%
2001	11,230	100	0.9%	0.53%	11,020	110	1.0%	0.54%
2002	11,300	180	1.6%	0.53%	11,020	100	0.9%	0.54%
2003	11,370	50	0.4%	0.53%	11,010	104	0.9%	0.54%
2004	11,470	140	1.2%	0.53%	11,050	95	0.8%	0.55%
2005	11,510	40	0.3%	0.53%	11,020	94	0.8%	0.55%
2006	11,590	80	0.7%	0.53%	11,010	88	0.7%	0.48%
2007	11,600	0	0.0%	0.46%	11,000	81	0.7%	0.47%
2008	11,650	0	0.0%	0.45%	11,000	73	0.6%	0.47%
2009	12,050	150	1.2%	0.45%	11,050	72	0.6%	0.46%
2010	12,200	100	1.2%	0.44%	11,017	67	0.6%	0.46%
2011	12,350	50	1.2%	0.43%	11,000	6	0.0%	0.45%
2012	12,510	100	1.3%	0.43%	12,005	37	0.3%	0.44%
2013	12,670	100	1.3%	0.43%	12,002	49	0.4%	0.43%
2014	12,800	150	1.1%	0.43%	12,025	47	0.3%	0.43%
2015	12,970	150	1.1%	0.43%	12,100	37	0.3%	0.42%
2016	13,150	160	1.2%	0.43%	12,190	51	0.4%	0.42%
2017	13,300	150	1.1%	0.38%	12,200	36	0.3%	0.41%
2018	13,400	150	1.1%	0.38%	12,215	18	0.1%	0.41%
2019	--	--	--	--	12,247	12	0.1%	0.41%
2020	--	--	--	--	12,263	5	0.0%	0.40%
Growth Rate Analysis		1950-1997	0.57%					
Average Annual Rate of Change by specific Time Period (percent)		1950-1960	0.56%					
		1960-1970	0.41%					
		1970-1980	0.14%					
		1980-1990	1.43%					
		1990-1997	1.72%					
Forecast Periods:		1998-2018	1.12%	State Demographer		0.67%	NDWP Modified Forecast	
		1998-2018	1.02%			0.57%		
		2019-2020	0.13%			0.41%		

Source: Nevada Office of the State Demographer (Current release April 18, 2020), Nevada Division of Taxation (July 1st Census population) based on State Census, Department of Commerce and Economic Development, Nevada County population forecasts based on the assumptions made by the White Pine County Department of Community Development.

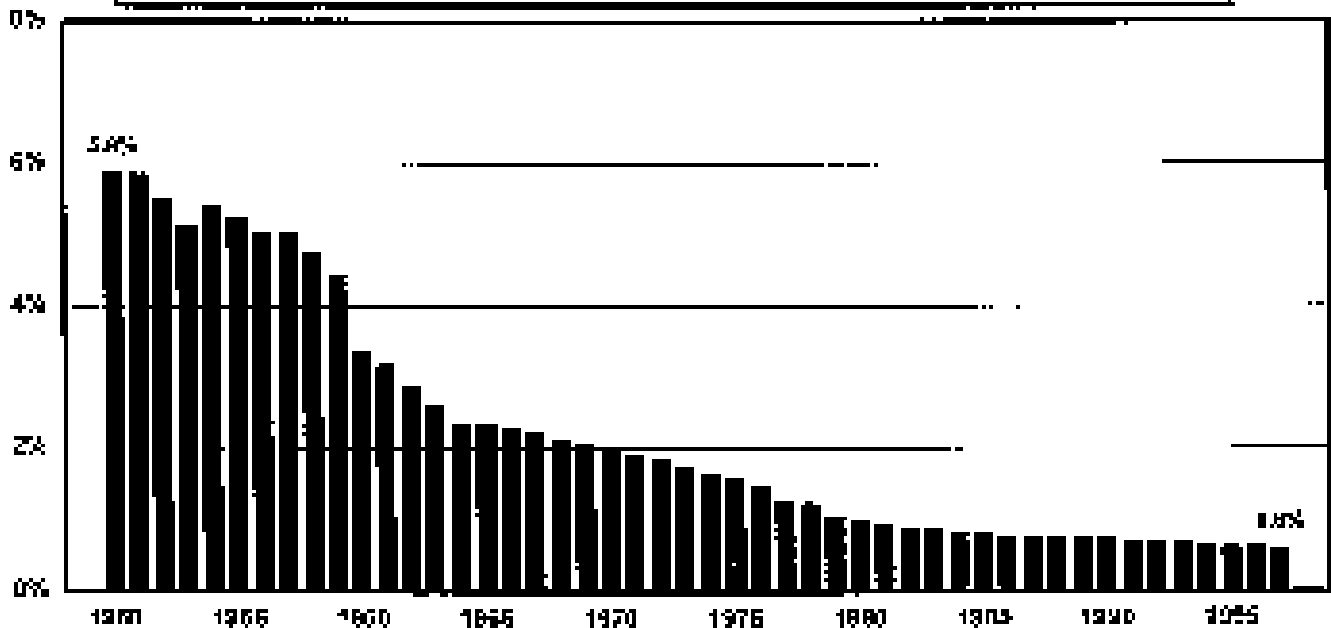
County Population Analysis

White Pine County Population Estimates & Forecasts Population Estimates as of July 1 (Persons)



Source: Nevada State Comptroller

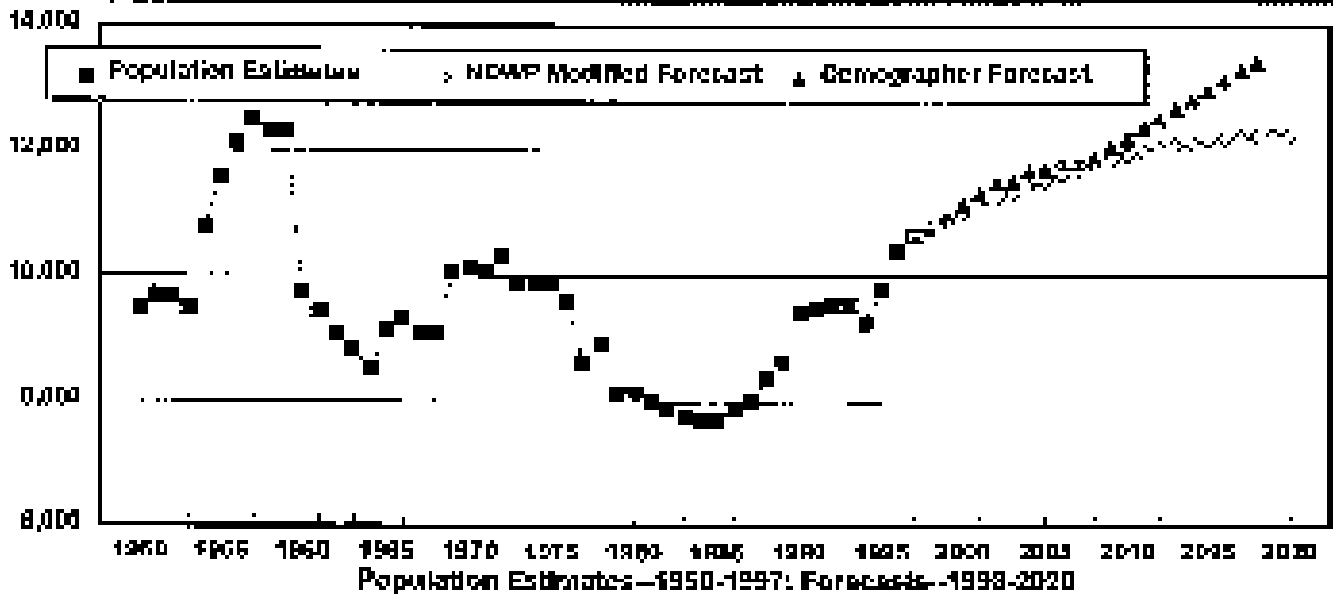
White Pine County Population Shares County Share of Total State Population (Percent)



Source: Nevada State Comptroller

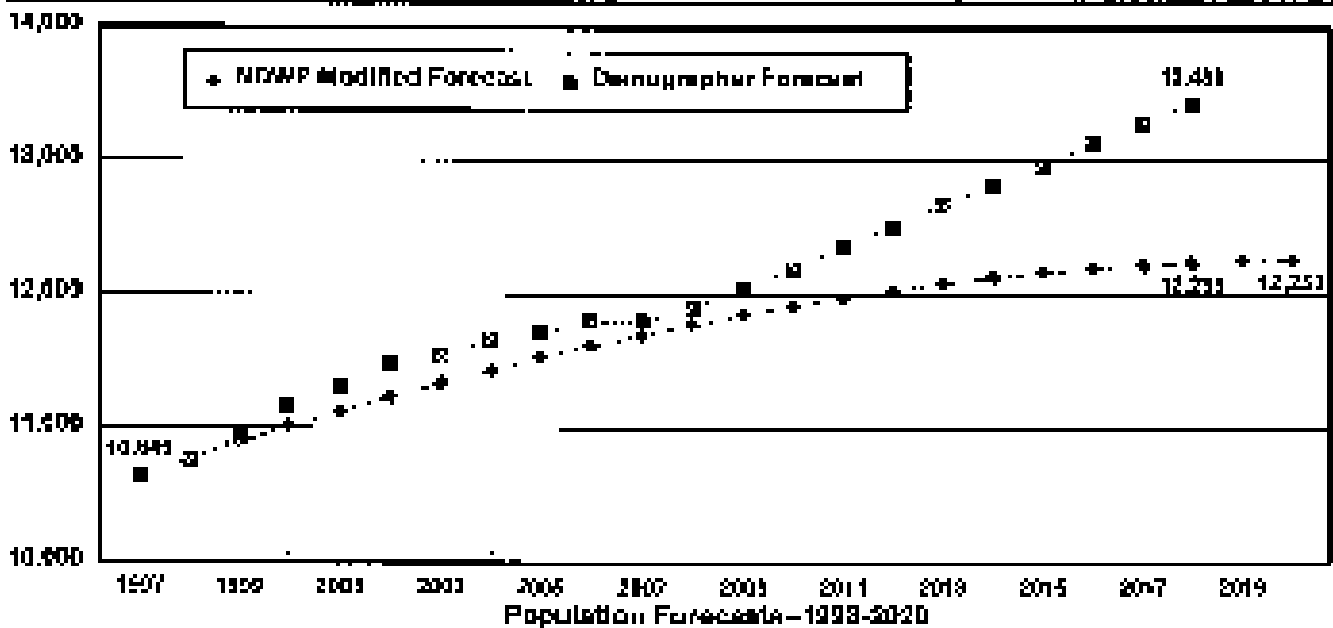
County Population Analysis and Forecasts

White Pine County Population Estimates & Forecasts Population Estimates and Forecasts as of July 1 (Persons)



Source: Nevada State Demographer, Nevada Division of Water Planning modified forecast

White Pine County Population Forecast Comparisons State Demographer and NDWP Modified—July 1 (Persons)

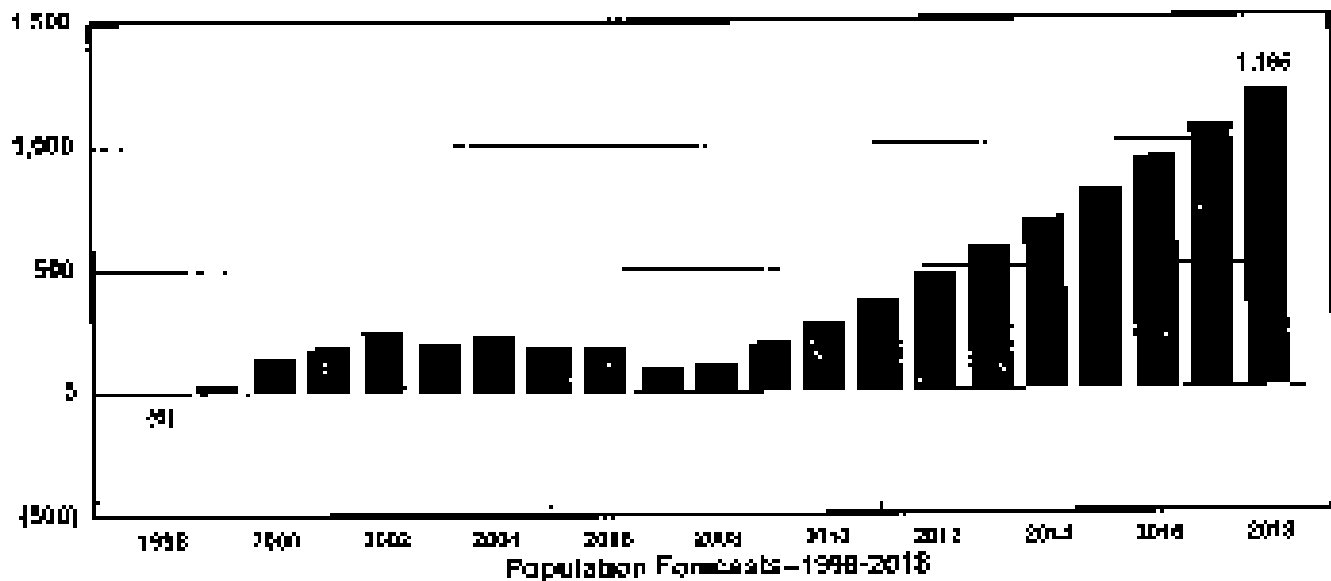


Source: Nevada State Demographer, Nevada Division of Water Planning modified forecast

County Population Forecast Variances

White Pine County Population Forecast Variances

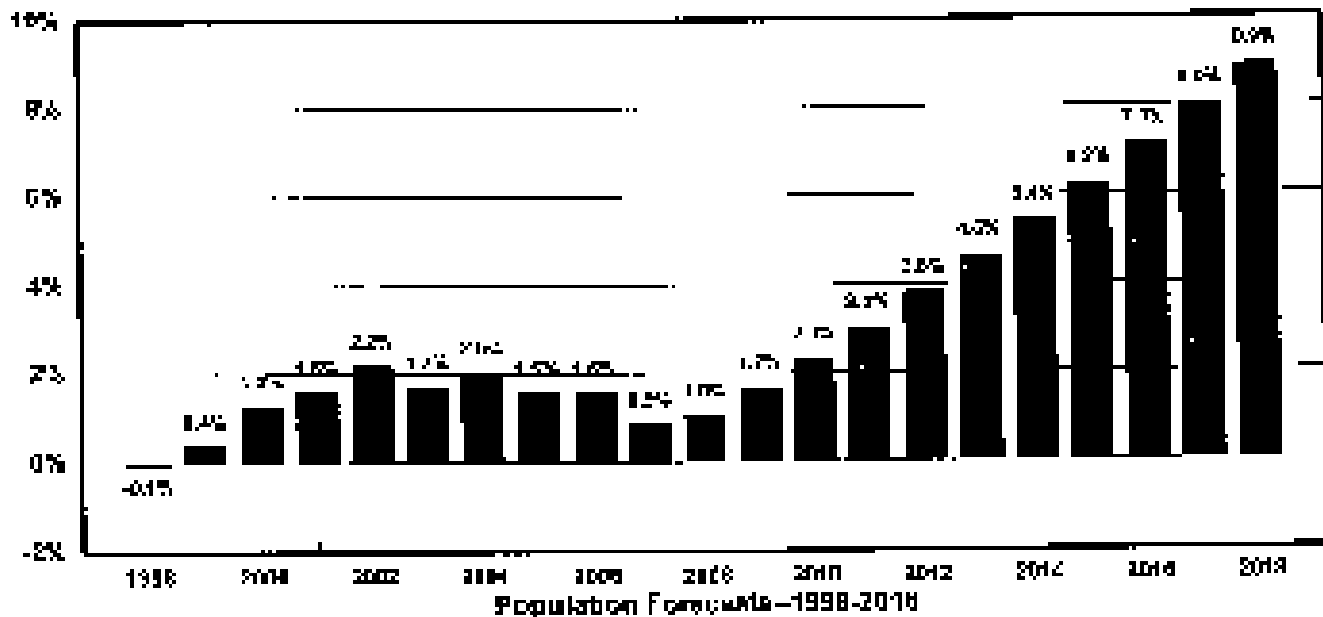
Demographer Forecast Minus NDWP Modified Forecast—July 1 (Persons)



Source: Nevada State Demographer, Nevada Center for Water Policy Modified Forecast

White Pine County Population Forecast Variances

Demographer Forecast Minus NDWP Modified Forecast—July 1 (Percent)



Source: Nevada State Demographer, Nevada Center for Water Policy Modified Forecast

Nevada State Water Plan

Appendix 3 – Population and Employment Forecasts and Municipal and Industrial (M&I), Public Use and Losses, Domestic (Residential) and Commercial and Industrial Water Use Analysis and Forecasts

TABLES:

Table 1 — County Summary of Water Use Factors/Coefficients

Table 2 — County Summary of Municipal & Industrial, Domestic, and Commercial and Industrial Water Use Forecasts

Table 3 Part 1 — Domestic, Commercial and Industrial and Municipal and Industrial (M&I) Water Use Estimates and Forecasts

[Fixed Share of Population on Public Supply Water Systems]

Table 3 Part 2 — Public and Self-Supplied Domestic and Municipal and Industrial (M&I) Water Use Estimates Forecasts

[Variable Share of Population on Public Supply Water Systems]

GRAPHS:

Figure 1 — Employment-to-Population Ratios

Figure 2 — Population and Employment Forecasts

Figure 3 — Domestic (Residential) and Commercial and Water Use Estimates and Forecasts

Figure 4 — Public and Self-Supplied Domestic (Residential) Water Use Estimates and Forecasts—Fixed Share of Population on Public Supply Water Systems

Figure 5 — Municipal and Industrial (M&I) Water Use Estimates and Forecasts—Variable Share of Population on Public Supply Water Systems

Figure 6 — Public and Self-Supplied Domestic (Residential) Water Use Estimates and Forecasts—Variable Share of Population on Public Supply Water Systems

Nevada Water Coefficient and Forecast Factor Summary

Water Use Factors, Public/Self-Supplied Population Percents, Other Use Rates

(Gallons per person per day; gallons per worker per day)

Revised: 11/23/98

County	Municipal and Industrial (Not Public Supplied) Water Use per Person (Gallons/Day)	Total Domestic Water Withdrawals per Person (Gallons/Day)	Domestic Public Supplied Water Use per Person (Gallons/Day)	Domestic Self-Supplied Water Use per Person (Gallons/Day)	Percent of Resident Population on Public Supply Water Systems	Commercial and Industrial Water Use per Worker-excl. Mining (Gallons/Day)	Public Use and Losses as Percent of Total Public Supply Water (GPD)
Carson City	197.7	135.3	136.8	123.2	99.15%	29.5	8.6%
Churchill	246.6	142.6	148.6	153.7	59.71%	189.0	20.4%
Clark	334.2	213.5	212.0	191.7	97.99%	215.4	8.90%
Douglas	305.6	261.6	264.2	257.0	91.09%	152.7	3.13%
Elko	331.7	240.4	240.1	211.0	93.27%	415.2	9.08%
Esmeralda	238.3	162.6	169.7	156.9	69.51%	239.5	14.81%
Foreman	327.5	210.0	246.4	221.5	71.49%	95.7	7.89%
Humboldt	948.8	244.4	253.0	227.6	66.08%	290.6	9.07%
Lander	245.4	187.6	191.3	172.3	80.37%	94.0	1.81%
Lauderdale	430.9	294.3	303.8	271.1	78.74%	213.6	8.90%
Lyon	218.7	140.1	141.3	120.9	91.61%	1,155.9	11.70%
Mineral	211.7	153.6	93.6	141.0	78.97%	126.3	3.57%
Nye	349.7	224.1	231.1	206.2	68.24%	97.7	32.49%
Pershing	341.5	334.9	255.7	212.4	88.51%	901.3	7.74%
Storey	143.0	94.9	98.6	84.4	64.48%	93.0	10.34%
Washoe	265.7	176.0	177.0	160.0	90.30%	130.1	11.73%
White Pine	352.4	300.0	302.4	271.9	92.07%	60.9	7.26%
NEVADA	315.0	203.0	205.6	176.6	94.20%	199.6	9.24%

Source: U.S. Geological Survey (USGS); Nevada Division of Water Planning (NDWP)

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

Revised:

(Water Use in Acre-Feet per Year; Water Use Factor in Gallons per Person or per Worker per Day)

12/2008

NVADA	1995	2000	2005	2010	2015	2020
Resident Population (persons)(1)	1,509,152	1,906,257	2,340,374	2,540,006	2,688,977	2,648,849
Percent Population on Public Supply (2)	94.20%	94.57%	94.89%	95.10%	95.36%	95.41%
Population on Public Supply (3)	1,421,658	1,875,477	2,221,592	2,413,071	2,558,001	2,505,882
Population being Self-Supplied	87,514	100,280	118,782	126,935	130,976	142,967
Municipal & Industrial (M&I) Factor (4)	3.5.0	3.6.5	3.7.3	3.7.7	3.7.7	3.7.6
Total Municipal & Industrial Use	327,861	668,876	789,701	893,590	972,639	1,034,428
Public Use and Losses (5)	48,472	61,105	72,914	81,707	88,630	94,582
As a Percent of Total M&I Water Use	14.79%	9.13%	9.23%	9.15%	9.11%	9.14%
Variable Domestic Use Factor (6)	250.9	294.7	303.2	295.4	297.9	295.5
Public Supply Use Factor	295.6	308.1	296.7	295.3	296.9	296.9
Self-Supply Use Factor	178.6	177.1	170.5	177.5	177.4	177.2
Total Domestic Water Use	340,710	453,424	529,950	607,467	601,315	701,358
Public Supply Water Use	342,600	451,057	514,377	581,056	579,300	674,663
Self-Supply Water Use	18,105	2,407	15,573	26,411	22,015	26,775
Fixed Total Domestic Use Factor (7)	203.9	203.9	203.9	203.9	203.9	203.9
Total Domestic Water Use (7)	360,710	453,407	530,957	607,338	600,967	700,797
Public Supply Water Use	362,605	453,192	513,927	589,167	589,977	689,147
Self-Supply Water Use	18,105	2,191	17,030	27,771	20,990	21,650
Total Employment (workers)	784,486	987,950	1,162,967	1,310,176	1,425,256	1,511,617
Employment less Mining Workers	271,259	270,251	1,48,331	1,255,999	1,409,689	1,499,090
Commercial-Industrial Use Factor (8)	199.6	192.6	192.6	199.6	192.6	192.6
Commercial-Industrial Water Use (8)	179,407	230,353	261,890	266,995	325,811	342,919
Clarkson City						
Resident Population (persons)(1)	46,770	54,243	61,709	66,071	70,990	72,567
Percent Population on Public Supply (2)	90.15%	91.30%	90.10%	90.53%	90.64%	90.76%
Population on Public Supply (3)	42,182	49,165	54,887	59,786	63,540	63,877
Population being Self-Supplied	4,588	5,079	6,822	6,285	7,450	8,710
Municipal & Industrial (M&I) Factor (4)	197.7	197.6	197.5	197.5	197.4	197.3
Total Municipal & Industrial Use	9,342	10,490	12,145	13,256	14,651	14,567
Public Use and Losses (5)	810	878	916	900	955	979
As a Percent of Total M&I Water Use	8.57%	8.38%	7.54%	6.79%	6.59%	6.73%
Variable Domestic Use Factor (6)	150.5	135.5	125.5	135.5	125.5	137.5
Public Supply Use Factor	136.8	136.8	136.8	136.8	136.8	136.8
Self-Supply Use Factor	121.2	123.2	123.2	123.2	123.2	121.2
Total Domestic Water Use	7,006	8,292	9,212	10,024	10,541	11,020
Public Supply Water Use	6,469	7,532	8,110	8,161	8,116	8,094
Self-Supply Water Use	537	728	1,102	863	925	926
Fixed Total Domestic Use Factor (7)	125.7	125.7	125.7	125.7	125.7	125.7
Total Domestic Water Use (7)	7,006	8,261	9,210	10,020	10,635	11,013
Public Supply Water Use	6,467	7,529	8,099	8,126	8,087	8,091
Self-Supply Water Use	539	737	1,111	894	948	922
Total Employment (workers)	26,218	29,988	33,425	36,176	38,230	39,467
Employment less Mining Workers	26,206	29,978	33,414	36,124	38,217	39,440
Commercial-Industrial Use Factor (8)	77.5	77.5	77.5	77.5	77.5	77.5
Commercial-Industrial Water Use (8)	2,274	2,901	2,861	3,134	3,336	3,433

Nevada M&I, Domestic, (Commercial) and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

Revised:

(Water Use in Acre-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day) 11/2008

Churchill County	1995	2000	2005	2010	2015	2020
Resident Population (persons) [1]	21,610	26,079	27,554	22,900	25,875	28,294
Percent Population on Public Supply [2]	79.77%	60.46%	61.22%	61.59%	62.73%	63.56%
Population on Public Supply [2]	17,222	15,733	16,882	14,207	16,219	17,971
Population being Self-Supplied	4,388	10,346	10,672	8,693	9,656	10,323
Municipal & Industrial (M&I) Factor [4]	216.5	215.5	244.4	243.3	212.1	240.9
Total Municipal & Industrial Use	9,500	4,329	4,957	5,555	6,105	6,569
Public Use and Losses [5]	1,033	1,279	1,461	1,673	1,799	1,936
As a Percent of Total M&I Water Use	29.47%	29.44%	29.12%	29.47%	29.47%	29.42%
Variable Domestic Use Factor [6]	142.6	142.7	143.8	142.8	143.1	143.7
Public Supply Use Factor	148.6	148.5	148.6	148.6	148.6	148.6
Self-Supply Use Factor	133.7	133.7	133.7	133.7	133.7	133.7
Total Domestic Water Use	5,257	4,159	4,930	5,769	5,749	6,442
Public Supply Water Use	2,151	2,616	3,013	3,495	3,481	4,051
Self-Supply Water Use	1,305	1,541	1,718	1,874	2,268	2,391
Fixed Total Domestic Use Factor [7]	142.5	142.6	142.6	142.5	142.6	142.6
Total Domestic Water Use [7]	3,457	4,126	4,229	5,317	5,720	6,119
Public Supply Water Use	2,151	2,556	2,979	3,291	3,555	3,894
Self-Supply Water Use	1,305	1,570	1,754	1,926	2,165	2,311
Total Employment (workers)	6,967	8,348	8,652	10,878	12,007	12,979
Employment less Mining Workers	6,941	8,322	8,635	10,891	11,969	12,951
Commercial/Industrial Use Factor [8]	183.0	183.0	183.0	183.0	183.0	183.0
Commercial/Industrial Water Use [8]	1,473	1,716	1,975	2,226	2,457	2,656
Clark County	1995	2000	2005	2010	2015	2020
Resident Population (persons) [1]	1,635,290	1,857,368	1,940,444	1,871,611	2,046,729	2,178,646
Percent Population on Public Supply [2]	97.93%	98.06%	98.18%	98.20%	98.42%	98.55%
Population on Public Supply [2]	1,601,809	1,822,009	1,910,359	1,842,777	2,014,991	2,150,291
Population being Self-Supplied	21,423	26,359	29,992	31,834	32,738	31,619
Municipal & Industrial (M&I) Factor [4]	354.5	344.1	314.9	333.7	311.6	333.4
Total Municipal & Industrial Use	479,921	497,297	602,193	688,847	752,574	801,258
Public Use and Losses [5]	92,281	122,56	113,81	98,532	61,943	68,177
As a Percent of Total M&I Water Use	8.56%	8.97%	8.91%	8.50%	8.50%	8.51%
Variable Domestic Use Factor [6]	212.5	212.6	212.6	212.5	212.6	212.7
Public Supply Use Factor	213.9	213.6	213.6	213.9	213.6	213.6
Self-Supply Use Factor	191.7	191.7	191.7	191.7	191.7	191.7
Total Domestic Water Use	246,719	322,712	290,636	416,410	487,385	518,845
Public Supply Water Use	242,109	317,952	281,217	410,530	480,455	512,045
Self-Supply Water Use	1,660	5,699	6,416	6,840	6,929	6,797
Fixed Total Domestic Use Factor [7]	212.5	212.7	212.5	212.5	212.5	212.5
Total Domestic Water Use [7]	246,704	322,672	290,610	416,245	487,145	518,527
Public Supply Water Use	242,109	316,659	281,258	407,907	478,662	508,859
Self-Supply Water Use	1,660	6,015	7,182	8,330	8,683	9,668
Total Employment (workers)	302,130	666,499	857,403	924,054	1,016,008	1,075,417
Employment less Mining Workers	301,733	665,505	857,092	921,407	1,009,187	1,075,409
Commercial/Industrial Use Factor [8]	215.4	215.4	215.4	215.4	215.4	215.4
Commercial/Industrial Water Use [8]	221,960	1,900,81	1,917,48	222,822	241,261	259,596

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems (Water Use is Acre-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day)						Forecast 12/5/08
	1995	2000	2005	2010	2015	2020
Douglas County						
Resident Population (persons)[1]	35,489	42,834	45,187	53,372	59,900	67,894
Percent Population on Public Supply[2]	90.09%	90.20%	90.75%	90.42%	90.34%	90.63%
Population on Public Supply[3]	32,023	38,656	41,012	48,231	54,421	62,000
Population being Self-Supplied	3,467	4,178	4,168	5,141	5,479	5,894
Municipal & Industrial (M&I) Factor[4]	306.6	305.9	305.9	305.8	305.8	305.7
Total Municipal & Industrial Use	11,078	12,210	14,368	16,902	17,955	19,701
Public Use and Losses[5]	510	415	467	507	565	612
As a Percent of Total M&I Water Use	4.63%	3.43%	3.25%	3.00%	3.15%	3.12%
Variable Domestic Use Factor[6]	161.6	200.6	250.6	361.7	491.7	651.7
Public Supply Use Factor	264.2	254.2	254.2	264.2	251.2	254.2
Self-Supply Use Factor	237.7	237.7	237.7	237.7	237.7	237.7
Total Domestic Water Use	10,513	12,557	14,130	17,615	19,973	24,134
Public Supply Water Use	9,305	11,434	12,675	14,355	15,504	16,954
Self-Supply Water Use	1,207	1,123	1,455	3,260	4,469	7,180
Final Total Domestic Use Factor[7]	261.6	261.5	261.5	261.5	261.6	261.6
Total Domestic Water Use[7]	10,513	12,557	14,117	17,609	19,965	24,124
Public Supply Water Use	9,546	11,429	12,845	14,305	15,439	16,497
Self-Supply Water Use	967	1,128	1,272	3,304	4,526	7,627
Total Employment (workers)	19,297	21,773	23,670	26,974	28,255	30,646
Employment Less Mining Workers	19,258	21,697	23,603	26,937	28,197	30,615
Commercial/Industrial Use Factor[8]	152.7	152.7	152.7	152.7	152.7	152.7
Commercial/Industrial Water Use[8]	3,299	3,376	4,041	4,150	4,322	4,755
Elko County						
Resident Population (persons)[1]	43,050	51,550	57,887	63,224	67,408	70,113
Percent Population on Public Supply[2]	93.23%	93.38%	93.50%	93.62%	93.73%	93.85%
Population on Public Supply[3]	40,131	48,146	54,095	59,188	63,184	65,691
Population being Self-Supplied	2,919	3,404	3,791	4,036	4,224	4,421
Municipal & Industrial (M&I) Factor[4]	321.7	321.5	321.5	321.7	321.4	321.2
Total Municipal & Industrial Use	11,920	12,922	12,088	12,972	12,447	12,219
Public Use and Losses[5]	1,553	1,628	1,327	1,395	2,129	2,917
As a Percent of Total M&I Water Use	13.08%	12.68%	11.08%	10.88%	17.05%	23.85%
Variable Domestic Use Factor[6]	210.4	240.5	240.5	240.5	240.6	240.5
Public Supply Use Factor	242.1	242.1	242.1	242.1	242.1	242.1
Self-Supply Use Factor	217.7	217.7	217.7	217.7	217.7	217.7
Total Domestic Water Use	11,595	13,215	13,557	13,014	13,566	13,995
Public Supply Water Use	10,388	13,081	14,609	15,050	17,134	17,810
Self-Supply Water Use	1,207	1,134	848	964	1,432	1,185
Final Total Domestic Use Factor[7]	240.4	240.4	240.4	240.4	240.4	240.4
Total Domestic Water Use[7]	11,595	13,215	13,585	13,026	13,455	13,854
Public Supply Water Use	10,896	13,057	14,633	15,590	17,044	17,492
Self-Supply Water Use	700	1,158	952	1,436	1,411	1,362
Total Employment (workers)	18,378	21,871	24,573	26,332	28,672	30,850
Employment Less Mining Workers	18,303	21,656	24,382	26,338	27,305	28,511
Commercial/Industrial Use Factor[8]	415.2	415.2	415.2	415.2	415.2	415.2
Commercial/Industrial Water Use[8]	7,949	9,514	10,262	11,895	12,009	12,261

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

(Water Use in Acre-Feet per Year; Water Use Factors in Gallons per Person or per Worker per Day)

Revised

	1995	2000	2005	2010	2015	2020
Eurolella County						
Resident Population (persons) (1)	1,730	1,760	1,800	1,840	1,884	1,930
Percent Population on Public Supply (2)	69.51%	69.96%	69.65%	69.77%	69.50%	69.44%
Population on Public Supply (3)	1,203	1,230	1,261	1,280	1,310	1,341
Population being self-supplied	497	460	459	460	465	466
Municipal & Industrial (M&I) Factor (4)	279.3	256.2	258.1	258.0	258.0	257.9
Total Municipal & Industrial Use	302	275	280	283	287	289
Public Use and Losses (5)	45	41	42	42	43	44
As a Percent of Total M&I Water Use	14.81%	14.83%	14.81%	14.81%	14.81%	14.81%
Variable Domestic Use Factor (6)	162.6	162.6	162.6	162.6	162.6	162.6
Public Supply Use Factor	167.7	167.7	167.7	167.7	167.7	167.7
Self-Supply Use Factor	150.9	150.9	150.9	150.9	150.9	150.9
Total Domestic Water Use	297	270	275	279	281	282
Public Supply Water Use	210	197	197	200	203	204
Self-Supply Water Use	84	76	77	78	79	79
Fixed Total Domestic Use Factor (7)	162.6	162.6	162.6	162.6	162.6	162.6
Total Domestic Water Use (7)	297	270	275	279	281	282
Public Supply Water Use	210	190	197	206	202	202
Self-Supply Water Use	84	76	78	79	80	80
Total Employment (workers)	322	331	336	340	342	342
Employment less Mining Workers	166	130	135	138	141	143
Commercial/Industrial Use Factor (8)	259.5	259.5	259.5	259.5	259.5	259.5
Commercial/Industrial Water Use (8)	45	48	50	51	51	52
Kearney County						
Resident Population (persons) (1)	1,530	1,777	1,975	2,095	2,189	2,243
Percent Population on Public Supply (2)	74.40%	74.70%	74.68%	74.77%	74.87%	74.96%
Population on Public Supply (3)	1,137	1,326	1,488	1,565	1,639	1,674
Population being self-supplied	400	450	464	428	550	559
Municipal & Industrial (M&I) Factor (4)	323.6	323.8	323.7	323.6	323.5	323.4
Total Municipal & Industrial Use	436	479	527	563	592	624
Public Use and Losses (5)	34	39	43	47	47	48
As a Percent of Total M&I Water Use	7.80%	7.80%	7.80%	7.80%	7.80%	7.80%
Variable Domestic Use Factor (6)	240.0	240.1	240.1	240.1	240.1	240.1
Public Supply Use Factor	246.4	246.4	246.4	246.4	246.4	246.4
Self-Supply Use Factor	221.5	221.5	221.5	221.5	221.5	221.5
Total Domestic Water Use	423	478	525	565	589	601
Public Supply Water Use	323	366	402	432	452	452
Self-Supply Water Use	100	112	123	133	137	149
Fixed Total Domestic Use Factor (7)	240.0	240.0	240.0	240.0	240.0	240.0
Total Domestic Water Use (7)	423	477	525	563	589	600
Public Supply Water Use	323	363	401	430	450	459
Self-Supply Water Use	100	112	124	133	139	141
Total Employment (workers)	4,554	5,180	5,887	6,081	6,343	6,455
Employment less Mining Workers	627	615	736	2,161	2,571	2,959
Commercial/Industrial Use Factor (8)	95.7	95.7	95.7	95.7	95.7	95.7
Commercial/Industrial Water Use (8)	67	102	186	232	275	317

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems (Water Use in Aero-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day)						See Adj. 12/29/96
	1995	2000	2005	2010	2015	2020
Humboldt County						
Resident Population (persons)(1)	16,170	18,827	21,054	22,858	24,251	25,114
Percent Pop. on Public Supply(2)	66.08%	65.25%	64.25%	63.15%	62.42%	61.56%
Population on Public Supply(3)	10,702	12,304	13,533	14,452	15,136	15,501
Population being Self-Supplied	5,468	6,523	7,521	7,696	8,114	8,613
Municipal & Industrial (M&I) Factor(4)	148.8	148.7	148.5	148.4	148.0	148.2
Total Municipal & Industrial Use	4,201	4,892	5,440	5,917	6,284	6,513
Public Use and Losses(5)	381	443	495	537	570	591
As a Percent of Total M&I Water Use	9.05%	9.07%	9.07%	9.07%	9.07%	9.07%
Variable Domestic Use Factor(6)	244.4	244.4	244.4	244.4	244.5	244.4
Public Supply Use Factor	253.0	253.0	253.0	253.0	253.0	253.0
Self-Supply Use Factor	227.6	227.6	227.6	227.6	227.6	227.6
Total Domestic Water Use	6,434	8,174	9,709	10,259	10,641	10,878
Public Supply Water Use	3,047	3,541	3,976	4,207	4,361	4,331
Self-Supply Water Use	1,407	1,632	1,812	1,952	2,077	2,148
Fixed Total Domestic Use Factor(7)	244.4	244.4	244.4	244.4	244.4	244.4
Total Domestic Water Use(7)	4,154	5,175	5,158	6,257	6,638	6,275
Public Supply Water Use	3,047	3,539	3,309	4,289	4,571	4,705
Self-Supply Water Use	1,407	1,636	1,849	1,967	2,067	2,172
Total Employment (workers)	5,710	6,333	7,020	7,195	7,494	7,200
Employment less Mining Workers	4,464	4,796	5,045	5,080	5,091	5,006
Commercial/Industrial Use Factor(8)	230.6	230.6	230.6	230.6	230.6	230.6
Commercial/Industrial Water Use(8)	1,411	1,757	2,035	2,045	2,006	2,020
Lander County						
Resident Population (persons)(1)	6,440	7,225	7,705	7,710	7,857	7,920
Percent Population on Public Supply(2)	80.21%	80.47%	80.57%	80.67%	80.78%	80.68%
Population on Public Supply(3)	5,176	5,815	6,217	6,226	6,340	6,405
Population being Self-Supplied	1,264	1,411	1,488	1,484	1,517	1,515
Municipal & Industrial (M&I) Factor(4)	245.4	245.3	245.2	245.2	245.1	245.0
Total Municipal & Industrial Use	1,123	1,358	1,561	1,719	1,742	1,758
Public Use and Losses(5)	168	189	196	202	205	208
As a Percent of Total M&I Water Use	14.81%	13.91%	12.51%	11.81%	11.81%	11.81%
Variable Domestic Use Factor(6)	187.6	187.6	187.6	187.6	187.6	187.6
Public Supply Use Factor	191.3	191.3	191.2	191.3	191.3	191.1
Self-Supply Use Factor	172.3	172.3	172.1	172.3	172.3	172.3
Total Domestic Water Use	1,122	1,518	1,577	1,622	1,651	1,662
Public Supply Water Use	1,109	1,245	1,295	1,374	1,366	1,375
Self-Supply Water Use	244	273	281	248	285	287
Fixed Total Domestic Use Factor(7)	187.6	187.6	187.6	187.6	187.6	187.6
Total Domestic Water Use(7)	1,355	1,518	1,577	1,621	1,651	1,661
Public Supply Water Use	1,109	1,344	1,282	1,379	1,363	1,369
Self-Supply Water Use	244	174	295	242	288	292
Total Employment (workers)	2,465	2,736	2,887	2,857	2,705	2,623
Employment less Mining Workers	1,283	1,475	1,674	1,666	1,725	1,778
Commercial/Industrial Use Factor(8)	94.0	94.0	94.0	94.0	94.0	94.0
Commercial/Industrial Water Use(8)	146	156	165	174	182	187

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems	Revised:					
(Water Use in Acre-Feet per Year; Water Use Intensity in Gallons per Person or per Worker per Day)	12/3/00					
Lincoln County	1995	2000	2005	2010	2015	2020
Resident Population (persons)(1)	4,110	4,697	4,297	4,307	4,345	4,353
Percent Population on Public Supply(2)	76.11%	78.22%	78.19%	75.42%	78.52%	76.02%
Population on Public Supply(3)	3,121	3,660	3,329	3,277	3,412	3,330
Population being Self-Supplied	989	937	921	929	933	933
Municipal & Industrial (M&I) Factor(4)	420.9	430.8	400.5	455.5	456.4	430.1
Total Municipal & Industrial Use	1,350	1,510	1,304	1,518	1,548	1,450
Public Use and Losses(5)	106	140	145	145	140	117
As a Percent of Total M&I Water Use	8.90%	9.50%	8.96%	9.50%	9.50%	8.90%
Variable Domestic Use Factor(6)	294.3	294.4	291.3	294.4	294.4	294.5
Public Supply Use Factor	300.8	300.8	300.8	300.8	300.8	300.8
Self-Supply Use Factor	271.1	271.1	271.1	271.1	271.1	271.1
Total Domestic Water Use	1,335	1,374	1,408	1,420	1,451	1,439
Public Supply Water Use	1,052	1,095	1,121	1,155	1,150	1,156
Self-Supply Water Use	283	279	280	265	281	283
Fixed Total Domestic Use Factor(7)	291.9	291.5	294.4	294.3	291.3	291.5
Total Domestic Water Use(7)	1,357	1,374	1,400	1,420	1,435	1,438
Public Supply Water Use	1,082	1,097	1,118	1,134	1,144	1,149
Self-Supply Water Use	275	277	282	286	289	289
Total Employment (Workers)	1,535	1,472	1,482	1,484	1,479	1,455
Employment less Mining Workers	1,321	1,400	1,400	1,175	1,469	1,457
Commercial/Industrial Use Factor(8)	213.5	223.6	213.5	213.5	213.6	213.5
Commercial/Industrial Water Use(8)	361	349	352	352	351	349
 Lyon County	1995	2000	2005	2010	2015	2020
Resident Population (persons)(1)	30,580	33,021	29,377	44,678	49,904	54,170
Percent Population on Public Supply(2)	91.61%	91.72%	91.84%	91.95%	92.07%	92.18%
Population on Public Supply(3)	28,130	30,290	26,163	41,067	45,973	46,976
Population being Self-Supplied	2,450	2,731	3,213	3,611	3,931	4,294
Municipal & Industrial (M&I) Factor(4)	210.7	210.6	200.7	210.4	210.2	210.2
Total Municipal & Industrial Use	5,316	7,296	6,527	9,329	10,827	11,760
Public Use and Losses(5)	672	851	951	1,137	1,256	1,375
As a Percent of Total M&I Water Use	12.90%	11.90%	1.70%	11.70%	11.70%	11.90%
Variable Domestic Use Factor(6)	140.1	140.1	140.1	140.2	140.2	140.1
Public Supply Use Factor	141.3	141.3	141.3	141.3	141.3	141.3
Self-Supply Use Factor	127.2	127.2	127.3	127.3	127.3	127.2
Total Domestic Water Use	4,171	5,295	6,157	7,043	7,817	8,506
Public Supply Water Use	3,857	4,895	5,723	6,650	7,277	7,905
Self-Supply Water Use	315	398	428	393	540	604
Fixed Total Domestic Use Factor(7)	140.1	140.1	140.1	140.1	140.1	140.1
Total Domestic Water Use(7)	4,171	5,292	6,180	7,043	7,800	8,501
Public supply Water Use	3,855	4,888	5,708	6,205	7,236	7,893
Self-Supply Water Use	318	403	471	837	563	608
Total Employment (Workers)	9,051	8,309	9,979	11,173	12,643	13,738
Employment less Mining Workers	6,669	6,306	9,734	11,300	12,420	13,529
Commercial/Industrial Use Factor(8)	1,157.9	1,155.5	1,155.9	1,155.9	1,155.9	1,157.9
Commercial/Industrial Water Use(8)	8,904	10,753	12,604	13,112	16,983	17,510

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

(Water Use in Acre-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day)

Mineral County	1993	2000	2005	2010	2015	2020
Resident Population (persons)(1)	6,700	6,950	7,086	7,182	7,241	7,287
Percent Population on Public Supply(2)	79.9%	79.0%	79.1%	79.2%	79.3%	79.4%
Population on Public Supply(3)	5,291	5,499	5,606	5,689	5,747	5,771
Population being Self-Supplied	1,409	1,456	1,480	1,493	1,494	1,491
Municipal & Industrial (M&I) Factor(4)	211.7	211.5	211.5	211.5	211.4	211.3
Total Municipal & Industrial Use	1,205	1,203	1,209	1,248	1,251	1,300
Public Use and Losses(5)	45	47	47	48	47	49
As a Percent of Total M&I Water Use	3.7%	3.9%	3.9%	3.9%	3.8%	3.8%
Variable Domestic Use Factor(6)	159.6	159.6	159.6	159.6	159.7	159.7
Public Supply Use Factor	156.9	156.9	156.9	156.9	156.9	156.9
Self-Supply Use Factor	141.3	141.3	141.3	141.2	141.3	141.3
Total Domestic Water Use	1,151	1,197	1,219	1,235	1,246	1,250
Public Supply Water Use	930	966	985	1,010	1,010	1,014
Self-Supply Water Use	221	230	234	225	236	236
Fixed Total Domestic Use Factor(7)	153.6	153.6	153.6	153.6	153.6	153.6
Total Domestic Water Use(7)	1,155	1,197	1,219	1,236	1,246	1,249
Public Supply Water Use	930	966	985	997	1,005	1,008
Self-Supply Water Use	225	231	234	239	241	242
Total Employment (workers)	2,345	2,395	2,518	2,571	2,673	2,722
Employment less Mining Workers	2,150	2,141	2,031	2,076	1,988	1,950
Commercial/Industrial Use Factor(8)	116.0	116.0	116.0	116.0	116.0	116.0
Commercial/Industrial Water Use(8)	250	266	265	250	259	254
Nye County	1993	2000	2005	2010	2015	2020
Resident Population (persons)(1)	29,050	30,804	35,781	41,185	45,171	48,654
Percent Population on Public Supply(2)	66.0%	66.3%	66.4%	66.5%	66.5%	66.6%
Population on Public Supply(3)	19,170	20,468	23,763	27,311	30,086	32,332
Population being Self-Supplied	9,880	9,336	11,998	13,874	15,085	16,322
Municipal & Industrial (M&I) Factor(4)	347.7	347.6	347.5	347.5	347.2	347.0
Total Municipal & Industrial Use	8,127	8,206	9,024	10,975	12,128	13,995
Public Use and Losses(5)	1,378	1,395	1,396	1,468	1,627	1,973
As a Percent of Total M&I Water Use	16.9%	17.0%	15.5%	13.5%	13.4%	14.1%
Variable Domestic Use Factor(6)	234.1	234.1	234.1	234.1	234.1	234.2
Public Supply Use Factor	231.4	231.4	231.4	231.4	231.4	231.4
Self-Supply Use Factor	208.3	208.3	208.3	208.3	208.3	208.3
Total Domestic Water Use	5,755	7,740	9,083	10,310	11,417	13,225
Public Supply Water Use	4,077	5,461	6,415	7,311	8,084	8,666
Self-Supply Water Use	1,708	2,279	2,667	3,027	3,333	4,559
Fixed Total Domestic Use Factor(7)	224.1	224.1	224.1	224.1	224.1	224.1
Total Domestic Water Use(7)	5,765	7,719	9,081	10,337	11,415	13,219
Public Supply Water Use	4,077	5,454	6,460	7,285	8,045	8,612
Self-Supply Water Use	1,708	2,265	2,621	3,052	3,369	4,607
Total Employment (workers)	8,495	9,835	11,585	12,775	14,051	14,988
Employment less Mining Workers	6,201	6,294	6,791	11,260	12,996	13,660
Commercial/Industrial Use Factor(8)	97.2	97.2	97.2	97.2	97.2	97.2
Commercial/Industrial Water Use(8)	784	893	1,050	1,226	1,372	1,488

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

(Water Use is Acc-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day)

Revised

12/09X

<u>Perthing County</u>	1995	2000	2005	2010	2015	2020
Resident Population (persons) [1]	2,140	2,058	1,777	3,359	3,777	9,001
Percent Population on Public Supply [2]	66.31%	66.42%	66.53%	66.64%	66.75%	66.86%
Population on Public Supply [3]	1,419	1,366	1,188	2,240	2,519	6,000
Population being Self-Supplied	721	692	589	1,119	1,258	3,001
Municipal & Industrial (M&I) Factor [4]	341.5	341.4	341.2	341.1	341.0	340.8
Total Municipal & Industrial Use	483.6	473.0	403.1	785.7	877.5	2,054
Public Use and Losses [5]	131	127	104	219	230	56
As a Percent of Total M&I Water Use	7.74%	7.74%	7.74%	7.74%	7.74%	7.74%
Variable Domestic Use Factor [6]	233.0	233.0	233.1	233.0	233.1	233.1
Public Supply Use Factor	233.0	233.0	233.7	233.7	233.7	233.7
Self-Supply Use Factor	232.4	232.7	232.4	232.4	232.4	232.4
Total Domestic Water Use	1,347	1,345	1,070	2,182	2,292	2,351
Public Supply Water Use	1,199	1,050	818	1,957	2,057	1,115
Self-Supply Water Use	148	295	252	225	235	123
Final Total Domestic Use Factor [7]	233.0	233.0	233.0	233.0	233.0	233.0
Total Domestic Water Use [7]	1,345	1,345	1,070	2,182	2,291	2,349
Public Supply Water Use	1,199	1,048	813	1,949	2,047	1,099
Self-Supply Water Use	146	297	257	233	244	120
Total Employment (workers)	1,685	2,434	2,671	2,464	3,000	1,068
Employment Less Mining Workers	1,294	1,542	1,946	1,900	2,051	2,100
Commercial/Industrial Use Factor [8]	307.1	307.0	307.0	307.3	307.3	307.5
Commercial/Industrial Water Use [8]	111	531	601	664	736	324
<u>Storey County</u>	1995	2000	2005	2010	2015	2020
Resident Population (persons) [1]	3,203	3,000	2,150	4,319	4,801	5,001
Percent Population on Public Supply [2]	55.58%	57.15%	57.33%	57.61%	57.85%	58.77%
Population on Public Supply [3]	1,782	1,714	1,242	2,491	2,768	2,920
Population being Self-Supplied	1,421	1,286	908	1,828	2,033	2,081
Municipal & Industrial (M&I) Factor [4]	143.0	142.9	142.9	142.8	142.8	142.7
Total Municipal & Industrial Use	205	181	134	264	289	310
Public Use and Losses [5]	34	40	41	43	47	55
As a Percent of Total M&I Water Use	10.20%	10.21%	10.31%	10.34%	10.34%	10.24%
Variable Domestic Use Factor [6]	94.9	94.9	94.9	94.9	94.9	94.9
Public Supply Use Factor	98.6	98.6	98.6	98.6	98.6	98.6
Self-Supply Use Factor	88.4	88.1	86.7	88.4	88.4	88.4
Total Domestic Water Use	340	401	445	480	510	522
Public Supply Water Use	294	264	205	313	338	332
Self-Supply Water Use	46	136	140	167	172	190
Final Total Domestic Use Factor [7]	94.9	94.9	94.9	94.9	94.9	94.9
Total Domestic Water Use [7]	340	401	445	480	510	521
Public Supply Water Use	294	264	202	315	336	330
Self-Supply Water Use	46	137	143	165	174	191
Total Employment (workers)	621	1,241	1,369	1,783	1,940	1,455
Employment Less Mining Workers	543	334	1,031	1,760	1,225	1,331
Commercial/Industrial Use Factor [8]	93.3	93.3	93.3	93.3	93.3	93.3
Commercial/Industrial Water Use [8]	57	58	110	121	131	139

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems (Water Use in Acre-Foot per Year; Water Use Exposed in Gallons per Person or per Worker per Day)	Residual 12/5/98					
Washoe County	1995	2000	2005	2010	2015	2020
Resident Population (persons)(1)	291,050	329,031	353,260	391,881	422,917	448,401
Percent Population on Public Supply(2)	70.30%	90.41%	91.52%	90.51%	90.73%	90.80%
Population on Public Supply(3)	204,609	297,467	322,628	357,601	384,794	407,291
Population being Self-Supplied	28,241	31,124	37,332	35,885	38,122	40,971
Municipal & Industrial (M&I) Factor(4)	269.7	259.6	246.4	200.3	269.6	269.7
Total Municipal & Industrial Use	75,583	80,816	92,271	71,799	113,735	122,805
Public Use and Losses(5)	5,308	10,557	11,905	12,629	15,371	14,490
As a Percent of Total M&I Water Use	11.73%	13.19%	12.90%	17.59%	13.52%	11.73%
Variable Domestic Use Factor(6)	175.0	175.0	175.0	175.1	176.1	176.1
Public Supply Use Factor	177.7	177.7	177.7	177.9	177.7	177.7
Self-Supply Use Factor	160.0	160.0	160.0	160.0	160.0	160.0
Total Domestic Water Use	57,382	64,875	71,135	77,551	85,419	98,455
Public Supply Water Use	52,022	59,222	67,287	71,075	76,409	81,114
Self-Supply Water Use	5,360	5,653	6,157	6,628	7,510	7,441
Fixed Total Domestic Use Factor(7)	175.0	175.0	175.0	175.0	175.0	175.0
Total Domestic Water Use(7)	57,382	64,868	71,122	77,657	85,380	98,405
Public Supply Water Use	52,022	59,118	67,124	71,809	76,025	80,909
Self-Supply Water Use	5,360	5,750	6,298	5,848	7,355	7,796
Total Employment (workers)	163,151	186,234	201,092	222,391	238,482	252,529
Employment less Mining Workers	162,517	185,580	200,155	221,788	237,534	251,057
Commercial/Industrial Use Factor(8)	100.1	100.1	100.1	100.1	100.1	100.1
Commercial/Industrial Water Use(8)	43,601	27,050	29,122	32,337	34,681	35,139
White Pine County	1995	2000	2005	2010	2015	2020
Resident Population (persons)(1)	9,770	11,037	11,527	11,913	12,162	12,255
Percent Population on Public Supply(2)	92.07%	92.15%	92.00%	92.41%	92.53%	92.64%
Population on Public Supply(3)	8,995	10,146	10,650	11,052	11,251	11,171
Population being Self-Supplied	775	860	885	861	911	911
Municipal & Industrial (M&I) Factor(4)	371.4	332.4	322.1	357.2	362.2	352.1
Total Municipal & Industrial Use	3,551	4,005	4,198	4,345	4,419	4,177
Public Use and Losses(5)	258	291	305	315	320	325
As a Percent of Total M&I Water Use	7.26%	7.28%	7.25%	7.26%	7.26%	7.26%
Variable Domestic Use Factor(6)	300.0	300.0	300.0	300.1	300.1	300.1
Public Supply Use Factor	302.4	302.4	302.4	302.4	302.4	302.4
Self-Supply Use Factor	271.9	271.9	271.9	271.9	271.9	271.9
Total Domestic Water Use	3,281	3,690	3,814	3,966	4,089	4,119
Public Supply Water Use	3,027	3,437	3,674	3,730	3,812	3,865
Self-Supply Water Use	254	253	270	236	277	274
Fixed Total Domestic Use Factor(7)	300.0	300.0	300.0	300.0	300.0	300.0
Total Domestic Water Use(7)	3,281	3,698	3,812	4,004	4,087	4,117
Public Supply Water Use	3,027	3,432	3,595	3,716	3,790	3,821
Self-Supply Water Use	254	266	278	288	297	296
Total Employment (workers)	4,230	4,065	4,241	4,568	4,441	4,457
Employment less Mining Workers	3,516	3,325	3,449	3,571	3,643	3,662
Commercial/Industrial Use Factor(8)	60.9	60.9	60.9	60.9	60.9	60.9
Commercial/Industrial Water Use(8)	246	221	255	244	243	250

Note: One acre-foot equals approximately 325,851 gallons.

(1) Population estimate Nevada and Demographic Statistics Institute, Nevada Division of Water Planning 10/04/20.

(2) Percent of population on public supply water systems for 1995 based on USGS national changes to US percent with the Bureau for the water estimates by NWDW. Total Nevada from census in approximately of total dual counties.

Nevada M&I, Domestic, Commercial and Industrial Water Use Forecasts

Variable and Constant Percent of Population on Public Supply Water Systems

Revised:

(Water Use in Acre-Foot per Year; Water Use Factors in Gallons per Person or per Worker per Day) _____ 1998

(1) Total Nevada figure based on aggregation of individual county areas

(2) Total Municipal & Industrial water use includes all public supplied water for commercial, industrial and manufacturing uses, reflect effects on variable population on public supply water systems

(3) M&I Use shall be a function of county specific percentage of variable water withdrawals Nevada figure is weighted average of counties

(4) Variable Total Domestic Use Factor based on optimal number of workers in population on public supplied water

(5) Fixed Total Domestic Use Factor based on 1995 average population on public supply water systems, constant

(6) Each use is estimated utilizing variables such as, energy, workers

Source: Simulation Database Nevada, www.DWR.nv.gov; Employment Statistics; Department of Employment, Training and

Recreation (DET); Population and Employment Statistics Nevada; Nevada's Water Planning (NDWP); Population Forecasts for the

Country; Department of Commerce, Mining; Population (1995); Nevada County; Department of Community Development.

State of Nevada Water Withdrawal Forecasts

Part I-Residential, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year (Actual 1968-1997; Forecast 1998-2020)	Estimated Residential Population	Estimated Total Employed	Estimated Population Ratio	Estimated Mining Employment	Share of Total Employed	Estimated Total Domestic Water Use (10 ⁶ gal)	Total Commercial and Industrial Water Use (10 ⁶ gal)	Forecasted Municipal & Industrial Water Use (10 ⁶ gal)
1980	820,508	307,643	40.67%	5,149	1.30%	182,845	47,510	230,355
1981	846,220	408,634	48.29%	7,834	1.92%	192,294	49,788	242,082
1982	870,970	397,052	45.60%	6,613	1.66%	198,343	47,714	246,057
1983	877,150	400,216	45.74%	5,870	1.44%	204,350	48,160	252,510
1984	887,500	421,429	47.49%	6,730	1.58%	215,736	49,174	264,910
1985	894,310	437,527	48.93%	6,080	1.34%	218,327	49,787	268,114
1986	895,220	465,967	52.05%	6,253	1.44%	225,672	52,729	278,401
1987	1,015,010	498,572	49.11%	5,139	1.03%	238,424	55,514	293,938
1988	1,036,170	555,371	53.61%	10,976	1.06%	246,174	57,357	303,531
1989	1,102,340	575,370	52.19%	13,452	1.13%	244,911	56,658	301,569
1990	1,254,130	615,533	49.11%	14,237	1.13%	247,544	55,124	302,668
1991	1,299,360	625,361	48.13%	13,337	1.03%	256,601	57,000	313,601
1992	1,345,035	637,103	47.37%	12,854	0.96%	257,254	57,594	314,848
1993	1,393,340	675,742	48.49%	12,458	0.89%	268,524	57,557	326,081
1994	1,401,400	737,592	52.63%	12,212	0.87%	240,637	60,171	300,808
1995	1,477,130	734,436	49.72%	13,117	0.90%	250,711	57,407	308,118
1996	1,584,500	840,190	53.03%	14,419	0.91%	253,163	55,575	308,738
1997	1,634,120	838,374	51.31%	14,614	0.90%	257,487	54,154	311,641
1998	1,675,455	915,034	54.67%	14,691	0.88%	250,318	56,731	307,049
1999	1,695,112	948,117	55.93%	14,007	0.83%	256,242	56,205	312,447
2000	1,685,150	987,940	58.68%	14,000	0.83%	253,417	55,355	308,772
2001	1,664,320	1,027,360	61.79%	14,171	0.85%	243,115	53,234	296,349
2002	1,677,412	1,081,148	64.52%	14,157	0.84%	240,112	53,779	293,891
2003	1,681,750	1,114,371	66.28%	14,141	0.84%	236,457	54,003	290,460
2004	1,671,220	1,159,205	69.36%	14,143	0.85%	229,168	54,024	283,192
2005	1,641,324	1,137,247	69.30%	14,151	0.86%	224,925	54,830	279,755
2006	1,607,073	1,145,315	71.26%	14,179	0.88%	221,163	55,614	276,777
2007	1,630,245	1,226,276	75.23%	14,179	0.87%	220,884	56,064	276,948
2008	1,529,801	1,275,646	83.43%	14,174	0.92%	218,164	53,043	271,207
2009	1,506,048	1,260,527	83.69%	14,159	0.94%	204,120	50,514	254,634
2010	1,610,326	1,310,176	81.37%	14,177	0.88%	210,173	52,023	262,196
2011	1,691,337	1,335,332	78.95%	14,075	0.83%	214,214	52,023	266,237
2012	1,739,673	1,338,235	76.88%	13,973	0.79%	210,134	52,578	262,712
2013	1,753,141	1,381,348	78.28%	13,837	0.79%	210,514	52,928	263,442
2014	1,803,158	1,403,642	77.85%	13,722	0.76%	209,737	52,917	262,654
2015	1,808,970	1,423,250	78.68%	13,571	0.75%	209,461	52,811	262,272
2016	1,907,651	1,442,421	75.67%	13,424	0.70%	206,671	52,600	259,271
2017	1,944,631	1,462,783	75.23%	13,221	0.68%	207,295	52,251	259,546
2018	1,980,108	1,471,403	74.31%	13,034	0.66%	205,245	51,971	257,216
2019	1,914,110	1,493,713	78.04%	12,812	0.67%	195,307	51,516	246,823
2020	1,945,454	1,511,515	77.73%	12,617	0.65%	200,837	51,414	252,251

Actual Period Average (1984-1997)..... 48.16% | 1.65% Standard Deviation (1980-1997)

Forecast Period Average (1998-2020)..... 49.65% | 19.94% | Coefficient of Variation (1994-1997)

Assumptions: M&I Water Demand Coefficient

M&I Total Domestic Water Use Coefficient..... 1.154 | 1.000 | 1.000 per person per year

M&I Total Domestic Water Use Coefficient..... 0.5523 | 0.700 | 0.700 per person per year

Commercial & Industrial Water Use Coefficient..... 1.994 | 1.000 per worker per year (pre-1980 mining)

Commercial & Industrial Water Use Coefficient..... 0.2293 | 1.000 per worker per year (post-1980 mining)

Note: The coefficient (M&I) coefficient is approximately 2% (1) value

(1) Estimate water use is based on actual percent of state's total population being employed in a particular sector. See Part 2 of this table.

(2) Estimate mining employment is based on mining sector.

(3) M&I Coefficient is based on the following: Domestic Coefficient - Commercial, Industrial and Mining; Domestic Coefficient - Commercial & Industrial Water Use Coefficient - Mining.

Source: Population estimates - State Demographic; Employment forecasts - DWR; Employment - DWR; Employment Income - BUREAU OF ECONOMIC ANALYSIS

State of Nevada Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

Year, Actual 1994-1995 Forecast 2000-2022	Forecasted Population on Public Water Systems [1]	Forecasted Public Supplied Domestic Water Use [1]	Forecasted Self-Supplied Domestic Water Use [1]	Forecasted Population on Public Water Systems [2]	Variable Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use [3]	Forecasted Self-Supplied Domestic Water Use [4]	Forecasted Municipal & Industrial D&I Water Use [1][2]
1990	751,117	173,675	9,779	--	--	--	--	--
1991	777,110	183,592	9,702	--	--	--	--	--
1992	820,476	188,982	9,786	--	--	--	--	--
1993	841,158	190,634	10,089	--	--	--	--	--
1994	869,115	190,059	10,571	--	--	--	--	--
1995	900,419	207,268	10,958	--	--	--	--	--
1996	930,091	215,485	11,387	--	--	--	--	--
1997	978,038	224,578	11,867	--	--	--	--	--
1998	1,012,608	232,812	12,341	--	--	--	--	--
1999	1,050,887	241,156	12,816	--	--	--	--	--
1999	1,101,494	264,185	13,172	--	--	--	--	--
1999	1,234,066	281,965	14,857	--	--	--	--	--
1999	1,267,583	291,853	15,421	--	--	--	--	--
1999	1,313,773	303,494	16,038	--	--	--	--	--
1999	1,405,658	323,587	17,160	--	--	--	--	--
1999	1,480,878	340,604	18,016	1,692,438	94.20%	342,605	18,105	324,361
1996	1,598,917	365,063	19,092	1,582,761	94.32%	368,131	19,011	351,143
1997	1,679,765	387,657	20,050	1,678,705	94.97%	387,641	19,926	391,319
1998	1,728,050	399,704	20,514	1,732,942	94.93%	405,021	20,529	419,267
1999	1,794,857	415,303	21,241	1,800,376	94.99%	415,740	20,846	437,520
2000	1,871,130	433,493	21,913	1,875,437	94.57%	437,083	21,401	465,876
2001	1,942,790	450,330	22,585	1,951,974	94.65%	451,257	21,925	503,438
2002	2,010,670	466,910	23,267	2,029,947	94.71%	467,371	22,429	517,622
2003	2,079,921	483,236	23,950	2,090,984	94.77%	483,657	22,909	540,483
2004	2,149,154	499,930	24,633	2,158,667	94.83%	499,218	23,368	568,302
2005	2,220,684	512,927	25,316	2,221,677	94.88%	514,277	23,811	599,991
2006	2,297,556	529,686	26,007	2,285,517	94.94%	529,214	24,240	633,777
2007	2,377,591	541,679	26,700	2,346,294	94.99%	543,390	24,545	671,573
2008	2,458,195	554,922	27,394	2,403,923	95.06%	556,892	24,834	715,266
2009	2,536,365	567,918	27,882	2,458,309	95.07%	569,611	25,109	764,023
2010	2,610,301	579,485	28,371	2,510,997	95.10%	581,736	25,371	818,293
2011	2,680,139	590,224	28,850	2,560,48	95.14%	593,265	25,618	878,075
2012	2,747,887	601,157	29,333	2,607,178	95.17%	604,151	25,853	943,905
2013	2,813,738	611,500	29,774	2,651,439	95.20%	614,401	26,053	1,017,994
2014	2,874,272	620,688	29,808	2,693,299	95.24%	624,078	26,221	1,101,519
2015	2,928,718	629,677	29,806	2,733,001	95.26%	633,306	26,376	1,195,659
2016	2,979,137	638,485	29,797	2,770,000	95.29%	642,167	26,509	1,301,386
2017	3,026,054	646,832	29,757	2,805,774	95.32%	650,684	26,631	1,421,779
2018	3,067,496	654,457	29,687	2,841,434	95.35%	658,909	26,738	1,558,052
2019	3,102,919	661,970	29,597	2,877,050	95.38%	666,822	26,841	1,711,648
2020	3,132,277	668,347	29,489	2,902,867	95.41%	674,562	26,935	1,884,748

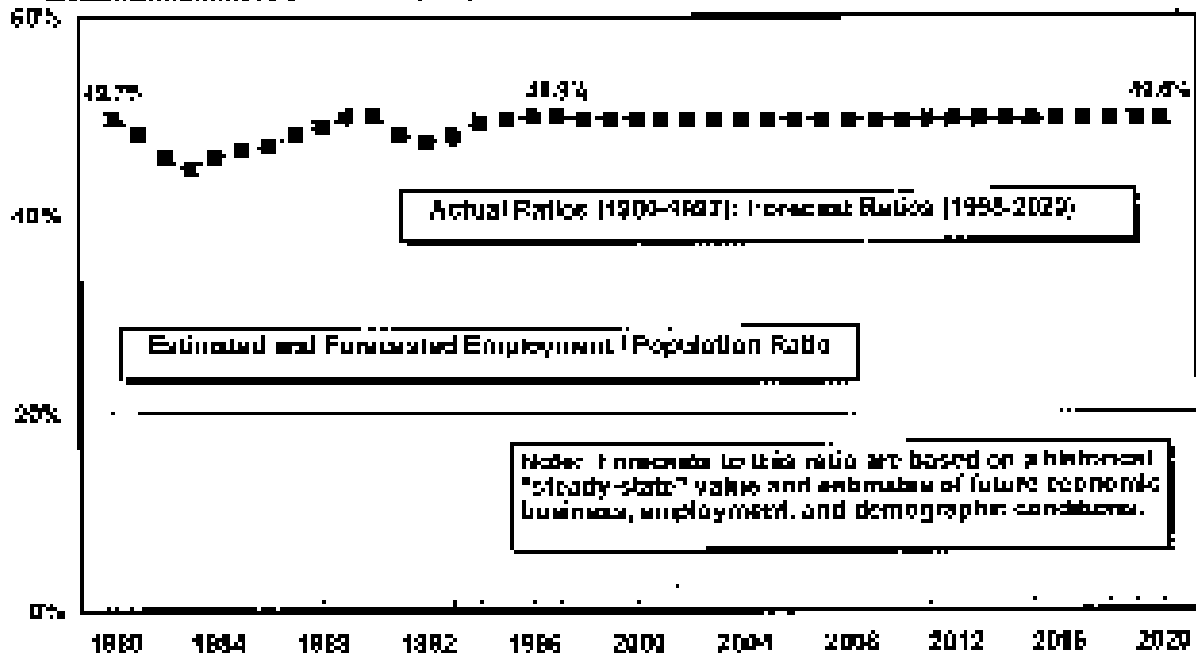
Summary:	M&I Factor	Domestic [5]	
M&I Domestic Self-Supply (Public Supplied.....)	0.050	0.003	Gallons per person per day-public supply
(Public Supplied Water Use/Total Use).....	0.050	0.003	Acre-Feet per person per year
Domestic Water Use per Person Self-Supplied Water.....	0.004		Gallons per person per day-self supply
(Self-Supplied Water Use/Total Use).....	0.004		Gallons per person per year
Self-Supplied Percentage of Public Supply.....	0.050%		Percent of total water per person

Note: Forecasts for (1) population and (2) public-supplied water use are based on the 2000-2022 period of the Nevada population forecast for public-supplied water systems. Forecasts for (3) M&I water use include per capita self-supplied water for domestic use only. Commercial, Industrial, and Governmental water use is excluded. Source: Population estimates—Sex Demographer; Income forecasts—BLS; Employment—BLS; Employment Income—BLS.

Nevada Socioeconomic Analysis and Forecasts

State of Nevada Employment to Population Ratios

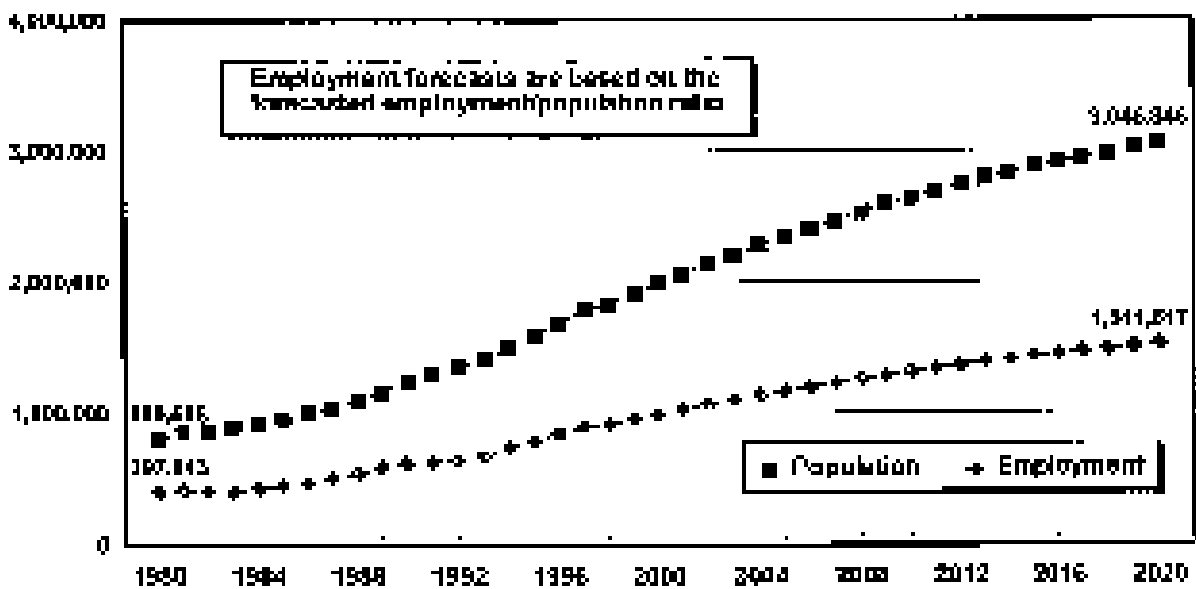
Historical and Forecasted Employment to Population Ratios (Percent)



Source: Data: Nevada State Demographic Center, Forecasts: NDWP

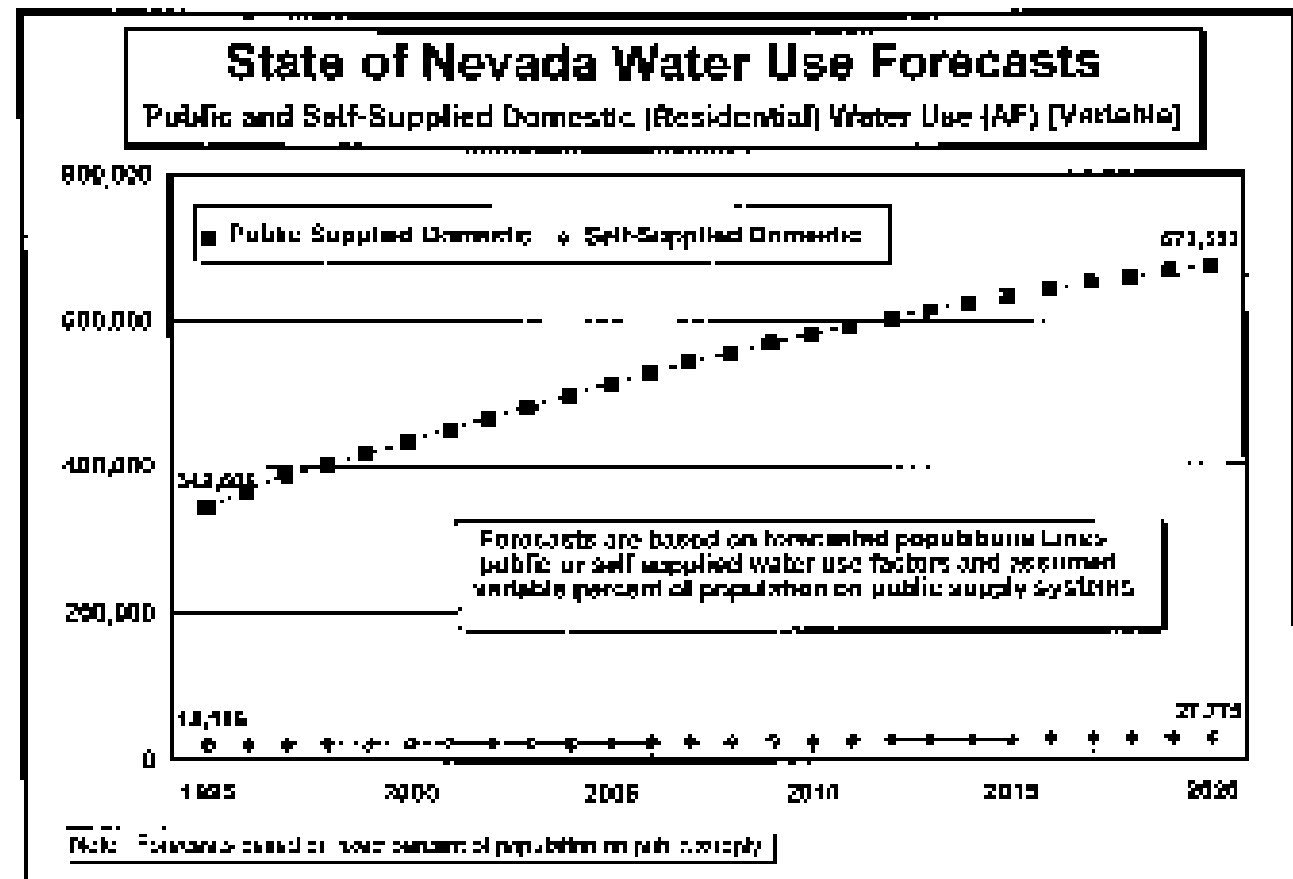
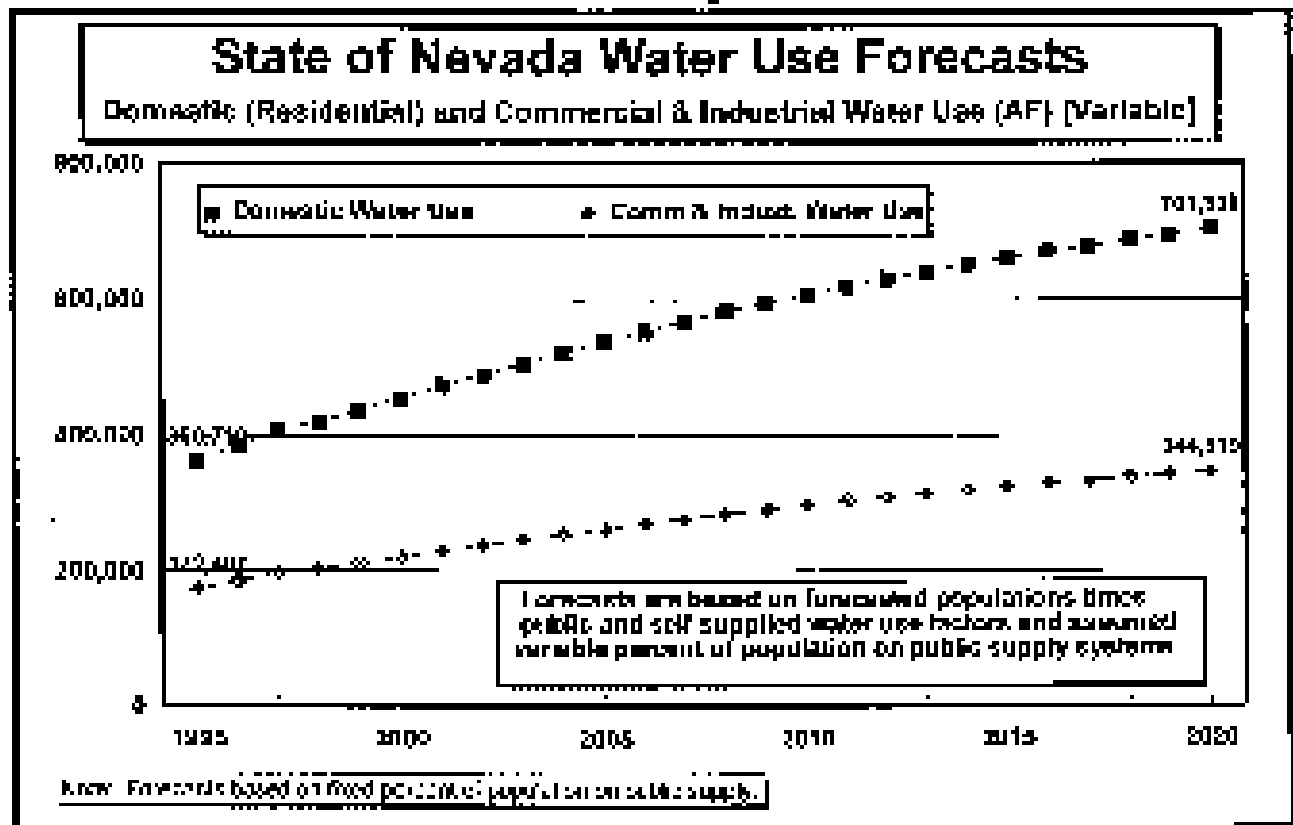
State of Nevada Population and Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)



Source: Data: Nevada State Demographic Center, Forecasts: NDWP

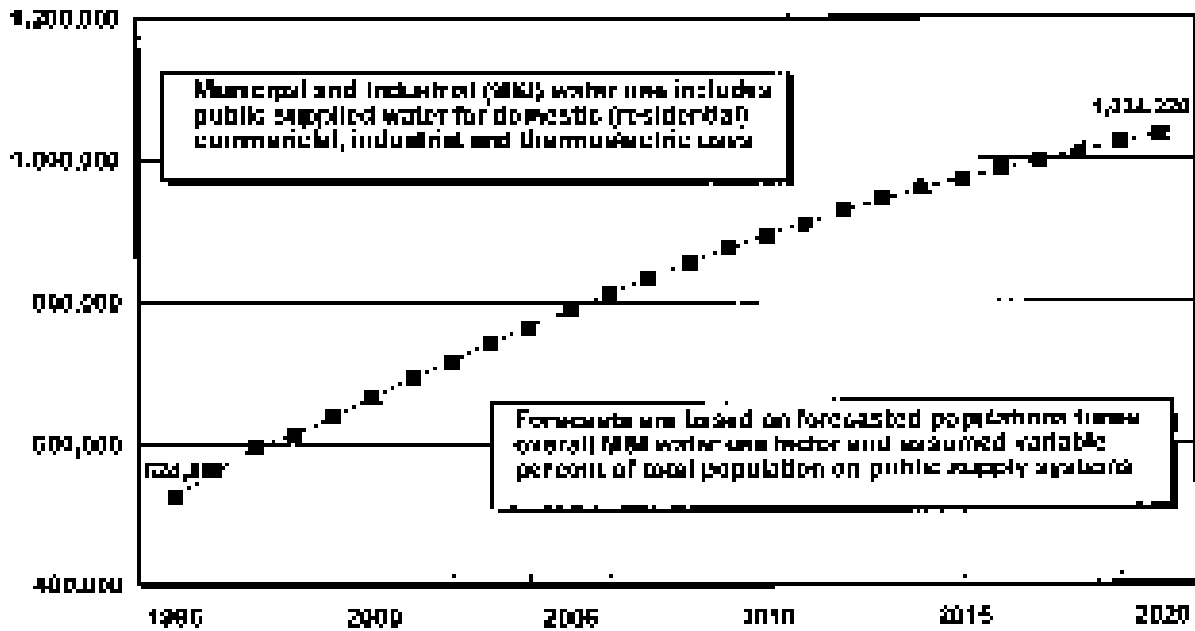
Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2

State of Nevada Water Use Forecasts

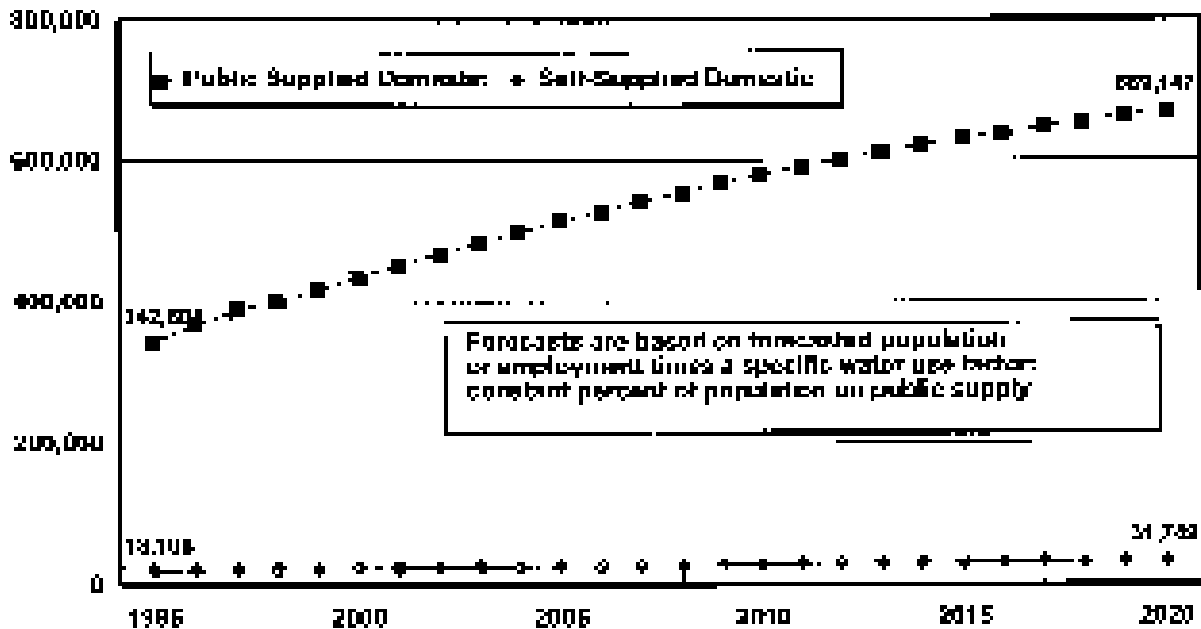
Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

State of Nevada Water Use Forecasts

Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Carson City Water Withdrawal Forecasts

Part I - Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year	Actual Forecast	Estimated and Forecasted Total Population	Estimated and Forecasted Total Domestic Employment	Estimated and Forecasted M&I Employment Ratio	Estimated and Forecasted M&I Share of Total Employment	Forecasted Municipal Water Use (M&I)	Forecasted Commercial and Industrial Water Use (M&I)	Forecasted Municipal & Industrial Water Use (M&I)
1982	32,022	33,501	6,341	18.9%	0.17%	1,859	1,091	6,376
1983	33,290	34,701	6,446	18.6%	0.18%	2,251	1,087	6,650
1984	34,270	35,201	6,625	18.8%	0.19%	2,709	1,111	6,825
1985	34,810	35,696	6,775	19.0%	0.20%	3,251	1,142	6,915
1986	34,750	36,422	6,874	18.9%	0.20%	3,207	1,143	6,981
1987	35,550	37,428	6,938	18.5%	0.21%	3,309	1,101	7,121
1988	36,142	38,064	7,064	18.6%	0.21%	3,511	1,165	7,329
1989	36,792	39,017	7,147	18.3%	0.19%	3,612	1,260	7,380
1990	38,282	40,148	7,271	18.1%	0.19%	3,978	1,246	7,546
1991	39,012	41,315	7,315	17.7%	0.18%	4,025	1,281	7,784
1992	40,056	42,520	7,384	17.4%	0.18%	4,215	1,281	7,882
1993	41,136	43,773	7,463	17.1%	0.18%	4,711	1,287	8,215
1994	42,140	45,068	7,538	16.9%	0.18%	4,791	1,286	8,417
1995	43,460	46,408	7,621	16.4%	0.18%	4,941	1,241	8,082
1996	44,510	47,770	7,701	16.1%	0.18%	5,264	1,297	8,505
1997	46,770	49,118	7,818	15.9%	0.18%	5,096	1,274	8,542
1998	48,810	50,517	7,901	15.6%	0.18%	5,111	1,343	8,760
1999	50,410	51,921	8,001	15.2%	0.18%	5,247	1,413	10,059
2000	51,771	53,337	8,101	15.0%	0.18%	5,384	1,477	10,241
2001	53,117	54,763	8,201	14.8%	0.18%	5,527	1,539	10,610
2002	54,415	56,201	8,301	14.6%	0.18%	5,671	1,601	10,978
2003	55,741	57,648	8,401	14.4%	0.18%	5,819	1,662	11,316
2004	57,041	59,113	8,501	14.2%	0.18%	5,974	1,721	11,701
2005	58,311	60,595	8,601	14.0%	0.18%	6,130	1,779	12,041
2006	59,511	62,095	8,701	13.8%	0.18%	6,287	1,836	12,467
2007	60,711	63,611	8,801	13.7%	0.18%	6,445	1,891	12,825
2008	61,911	65,141	8,901	13.5%	0.18%	6,604	1,944	13,273
2009	63,111	66,681	9,001	13.3%	0.18%	6,764	2,000	13,693
2010	64,311	68,231	9,101	13.2%	0.18%	6,924	2,054	14,191
2011	65,511	69,791	9,201	13.0%	0.18%	7,084	2,109	14,671
2012	66,711	71,361	9,301	12.9%	0.18%	7,244	2,165	15,159
2013	67,911	72,941	9,401	12.8%	0.18%	7,404	2,221	15,711
2014	69,111	74,531	9,501	12.7%	0.18%	7,564	2,277	16,257
2015	70,311	76,131	9,601	12.6%	0.18%	7,724	2,331	16,797
2016	71,511	77,741	9,701	12.5%	0.18%	7,884	2,384	17,321
2017	72,711	79,361	9,801	12.4%	0.18%	8,044	2,436	17,841
2018	73,911	81,001	9,901	12.3%	0.18%	8,204	2,487	18,341
2019	75,111	82,651	10,001	12.2%	0.18%	8,364	2,539	18,841
2020	76,311	84,311	10,101	12.1%	0.18%	8,524	2,591	19,421

Actual Period Average (1982-1997)..... 14.6% 1.1% Standard Deviation (1982-1997)
 Forecast Period Average (1998-2020)..... 14.7% 15.1% Forecasted Error Period (1997-1997)

Assumptions:
 M&I Water Demand Water Use per Person: 195.7 M&I Water per person per year
 (Forecasted Domestic Water Use Coefficient)
 Commercial & Industrial Water Use per Worker: 77.5 Coefficient per worker per year (excludes mining)
 (Commercial & Industrial Water Use Coefficient) 0.868 Assumptions per worker per year (excludes mining)

Notes: One acre-foot (AF) is equivalent to approximately 125,641 gallons.
 (1) Estimated water use based on commercial and industrial market penetration, except public supplies which are based on Part 2 of this table.
 (2) Excludes mining employment and mining water use.
 (3) Total water use includes public supplies, water use for domestic, manufacturing, commercial, and institutional and thermoelectricity.
 Source: Population Division, Public Technology, Population Forecast, NIPDP, Employment-DETA, Employment, Economic, and

Carson City Water Withdrawal Forecasts

May 2012

Part 2- Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Foot)

Year: Actual 1960-1997 Forecast 1998-2020	Forecasted Population on Public Water Systems [1]	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self Supplied Domestic Water Use [3]	Forecasted Population on Public Water Systems [2]	Variable Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self Supplied Domestic Water Use [3]	Forecasted Municipal & Industrial (M&I) Water Use [2]+[3]
1960	28,381	4,425	451	-	-	-	-	-
1971	30,024	4,600	451	-	-	-	-	-
1982	31,623	4,758	461	-	-	-	-	-
1983	31,715	4,783	468	-	-	-	-	-
1984	31,722	4,787	470	-	-	-	-	-
1985	32,153	4,827	482	-	-	-	-	-
1986	32,773	5,023	492	-	-	-	-	-
1987	33,341	5,112	501	-	-	-	-	-
1988	34,005	5,290	513	-	-	-	-	-
1989	34,049	5,315	514	-	-	-	-	-
1990	34,973	5,559	524	-	-	-	-	-
1991	37,095	5,944	552	-	-	-	-	-
1992	38,056	6,225	570	-	-	-	-	-
1993	39,109	6,606	588	-	-	-	-	-
1994	40,209	6,161	603	-	-	-	-	-
1995	41,161	6,454	613	42,132	90.19%	6,359	633	9,032
1996	41,667	6,789	661	41,058	90.21%	6,754	660	9,761
1997	42,405	6,966	664	41,788	90.24%	6,870	670	10,573
1998	42,002	7,154	701	41,733	90.26%	7,100	696	10,246
1999	42,006	7,342	719	42,954	90.28%	7,348	711	10,677
2000	42,104	7,524	737	43,166	90.29%	7,533	739	10,843
2001	42,233	7,704	757	43,351	90.32%	7,715	754	11,143
2002	42,379	7,882	772	43,529	90.35%	7,896	770	11,506
2003	42,501	8,058	789	43,678	90.37%	8,071	774	11,629
2004	42,675	8,234	801	43,795	90.39%	8,240	787	11,906
2005	42,748	8,409	822	43,885	90.42%	8,410	801	12,146
2006	42,780	8,588	837	43,947	90.44%	8,572	815	12,379
2007	42,779	8,762	832	43,963	90.46%	8,738	829	12,604
2008	42,738	8,930	867	43,946	90.43%	8,879	841	12,721
2009	42,682	9,092	881	43,888	90.51%	9,024	852	12,908
2010	42,563	9,126	874	43,786	90.55%	9,116	855	13,216
2011	42,195	9,154	906	43,618	90.55%	9,119	875	13,413
2012	42,182	9,274	908	43,447	90.57%	9,114	882	13,580
2013	42,213	9,487	929	43,195	90.60%	9,350	891	13,735
2014	42,307	9,591	919	42,995	90.60%	9,557	898	14,000
2015	42,223	9,687	949	42,826	90.64%	9,736	905	14,081
2016	42,202	9,734	957	42,728	90.66%	9,826	912	14,179
2017	42,202	9,853	965	42,657	90.69%	9,917	916	14,293
2018	42,202	9,972	979	42,625	90.71%	9,999	925	14,593
2019	42,141	9,981	994	42,575	90.73%	10,011	931	14,887
2020	42,466	10,021	982	42,477	90.76%	10,090	915	14,563

Assumptions:

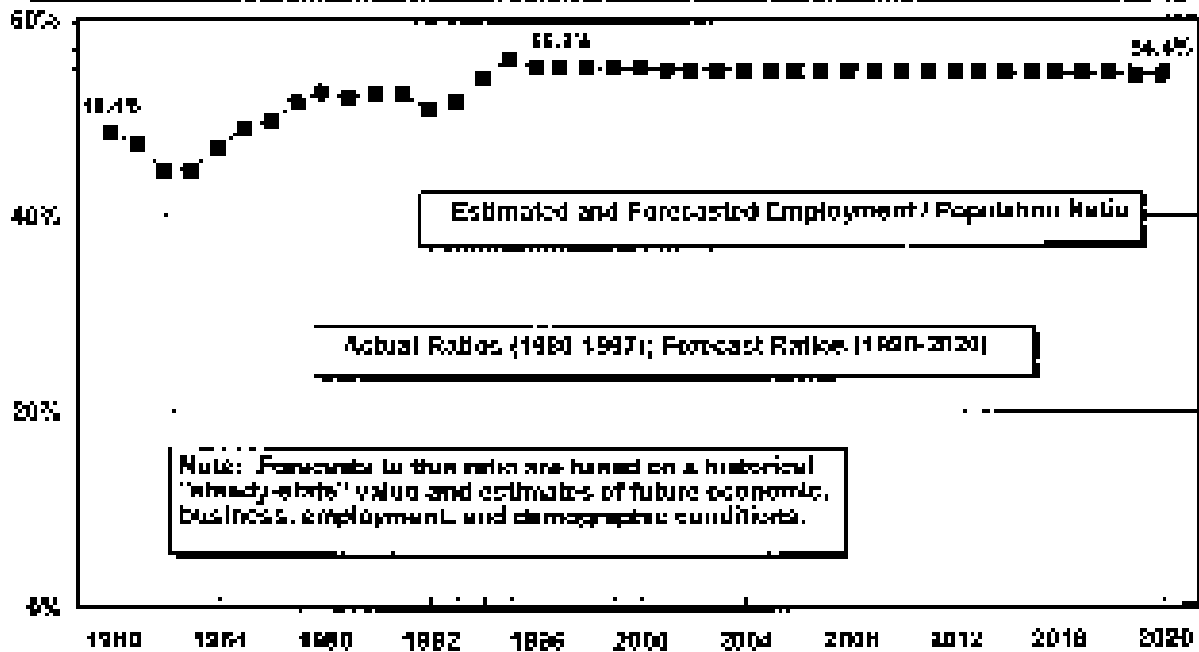
- M&I = Forecasted Population (Public Supplied Domestic Water Use) (Acre-Foot) + Forecasted Self-Supplied Domestic Water Use (Acre-Foot)
- Domestic Water Use is Person * Self-Supplied Water (Acre-Foot)
- Self-Supplied Water Use is Forecasted Population * Self-Supplied Water (Acre-Foot)
- 1998 - Estimated Forecast Population on Public Supply
- 1998 - Forecasted Self-Supplied Water Use is approximately 50% of public supply
- [1] Forecasted Domestic Water Use is based on population forecasts of total forecast population by age, sex, and marital status.
- [2] Forecasted Domestic Water Use is based on a variable number of forecasted population by age, sex, and marital status by year (1990 to 2020).
- [3] M&I water use includes public supply and self-supplied domestic water use.

Source: Population and Water Use Forecasts, Population Forecast - HUD, by the City of Carson, Nevada, 2012.

Nevada Socioeconomic Analysis and Forecasts

Carson City Employment-to-Population Ratios

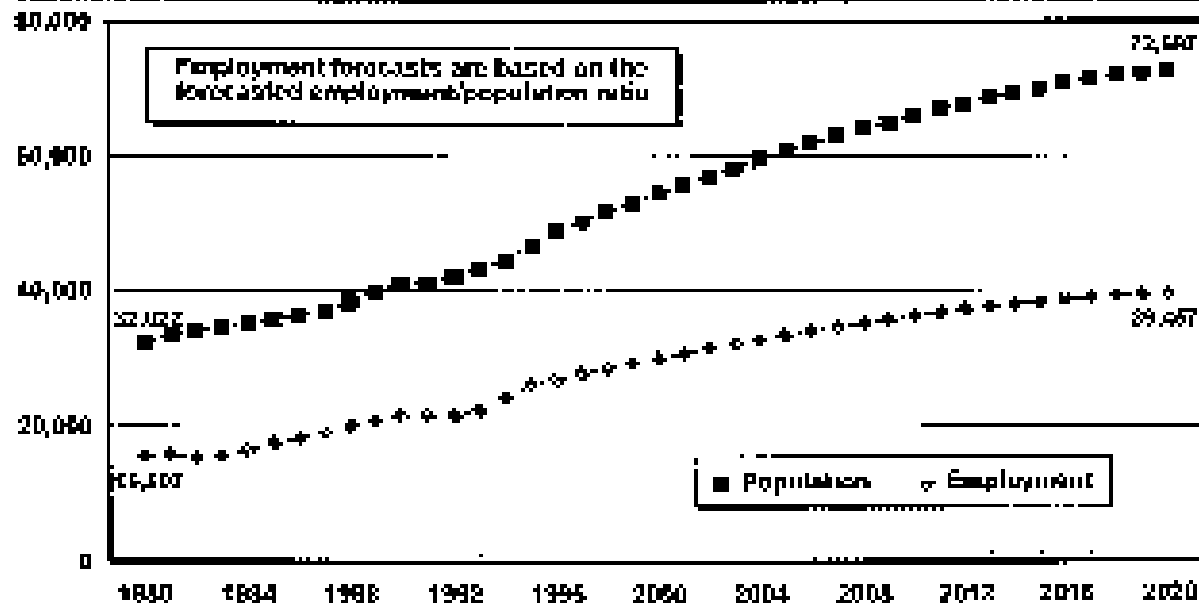
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Comptroller, DETP.

Carson City Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

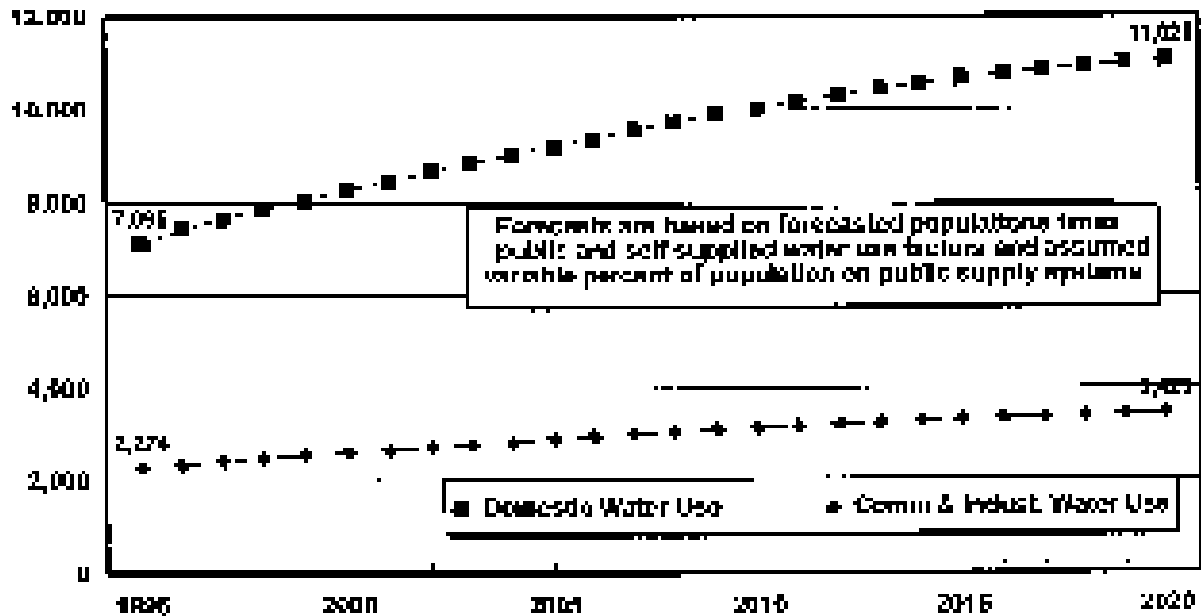


Source: Data: Nevada State Comptroller, DETP.

Nevada Water Use Analysis and Forecasts-1

Carson City Water Withdrawal Forecasts

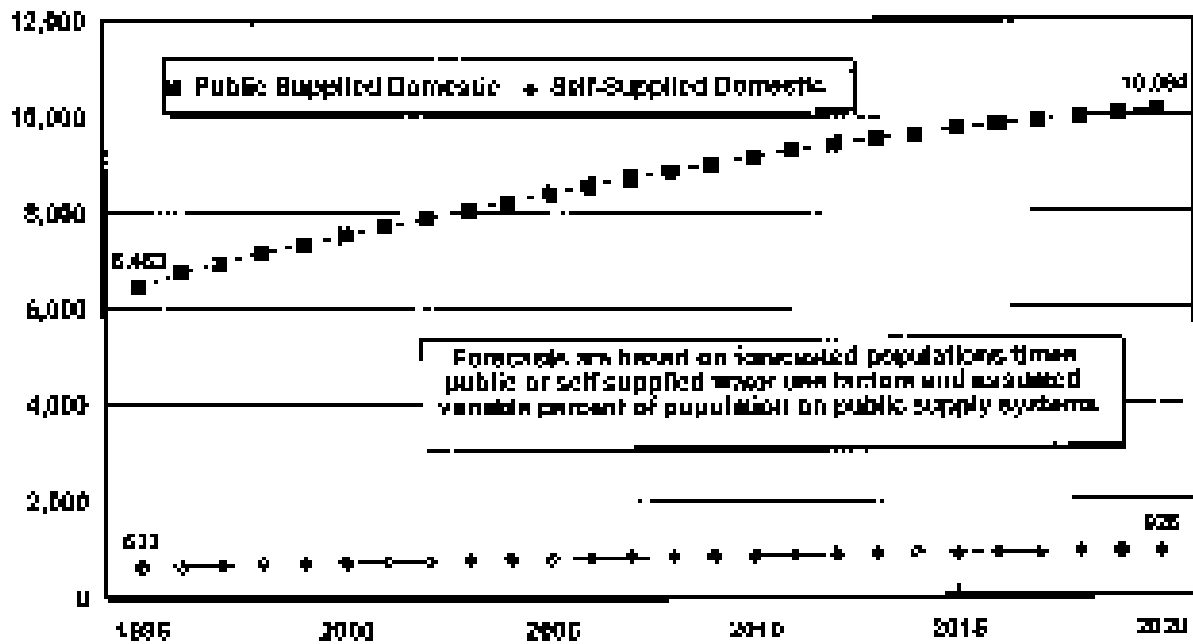
Domestic (Residential) and Commercial & Industrial Water Use (AF) [Variable]



Note: Forecasts based on fixed percent of population on public supply.

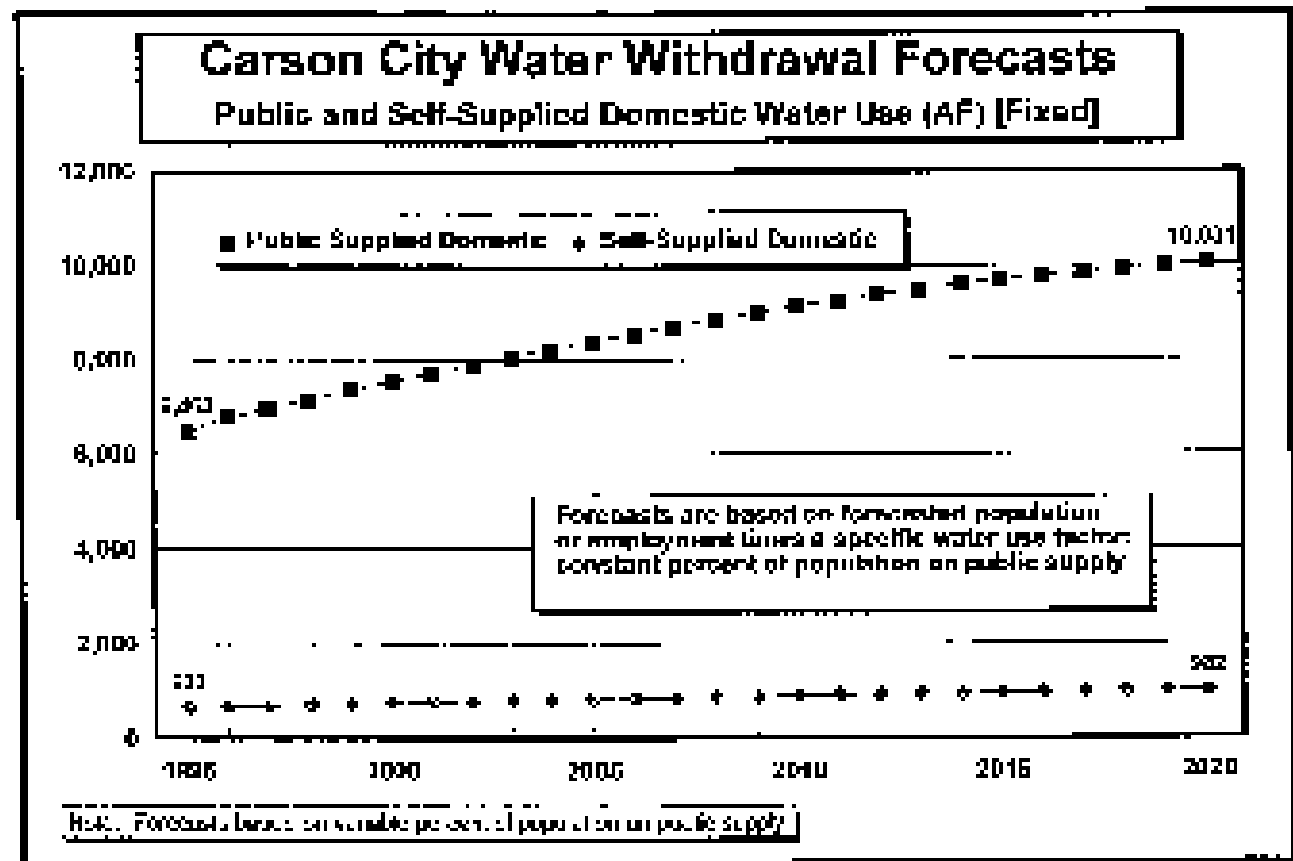
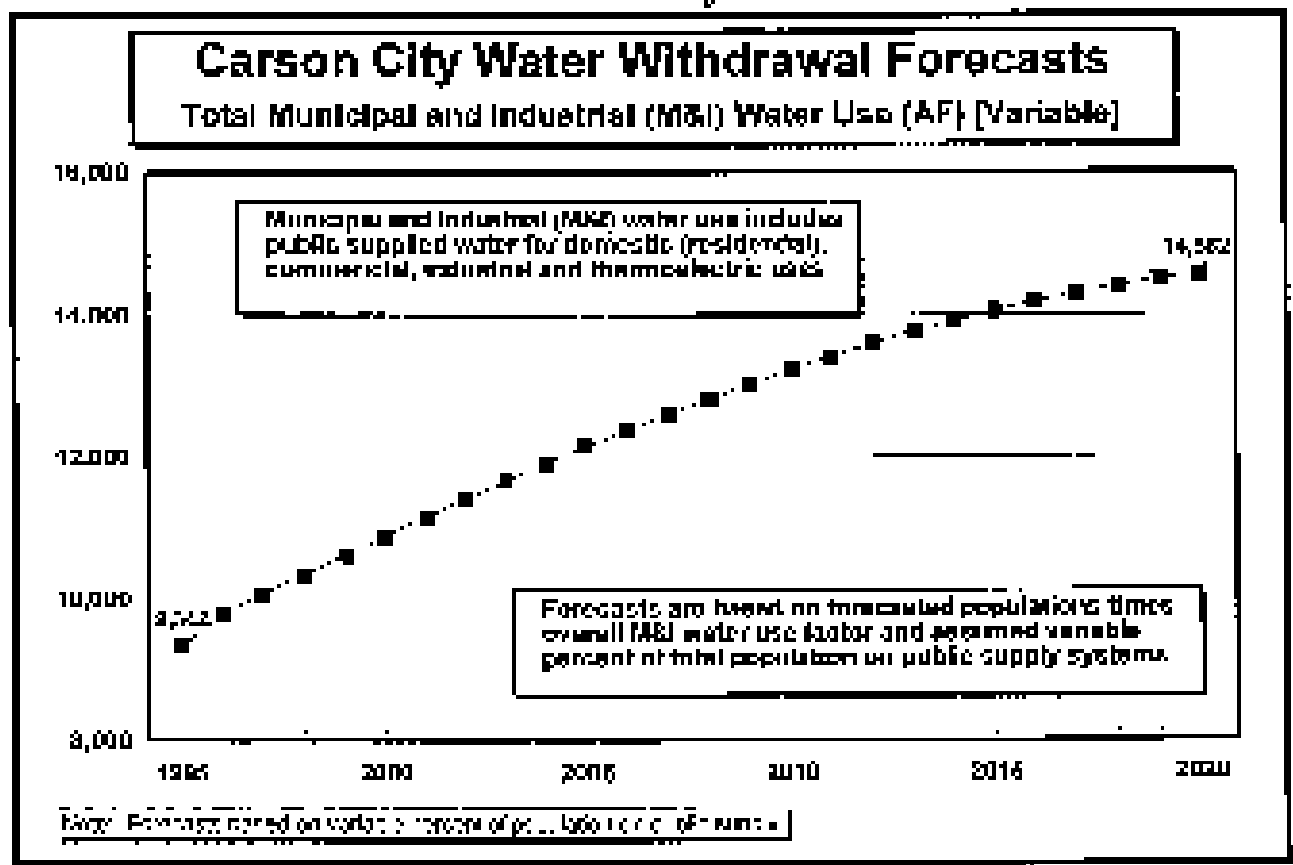
Carson City Water Withdrawal Forecasts

Public and Self-Supplied Domestic (Residential) Water Use (AF) [Variable]



Note: Forecasts based on fixed percent of population on public supply.

Nevada Water Use Analysis and Forecasts-2



Churchill County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Foot)

Year	Domestic Forecast 1974-2018	Estimated and Forecasted Population Employment	Estimated and Forecasted Population Employment	Estimated and Forecasted Mining Employment	Share of Total Local Employment	Forecasted Total Domestic (Residential Water Use)	Forecasted Commercial and Industrial Water Use	Forecasted Total Municipal Water Use
1980	13,917	3,533	29.03%	91	3.2%	2,321	0	2,321
1981	14,305	3,616	29.13%	112	3.7%	2,339	0	2,339
1982	14,630	3,609	29.02%	91	3.1%	2,317	0	2,317
1983	14,810	3,647	29.32%	94	3.1%	2,321	40	2,401
1984	14,810	3,858	29.32%	71	1.8%	2,320	79	2,440
1985	15,120	4,246	29.98%	51	1.0%	2,323	81	2,497
1986	15,420	4,434	29.52%	72	0.5%	2,430	96	2,543
1987	16,710	5,034	30.40%	79	0.7%	2,628	1,018	2,700
1988	17,750	5,610	31.33%	70	0.4%	2,812	1,144	2,958
1989	17,950	5,714	31.70%	45	0.5%	2,874	1,182	2,971
1990	18,100	5,823	31.17%	15	0.4%	2,891	1,188	3,066
1991	18,250	5,853	31.62%	15	0.3%	2,924	1,194	3,203
1992	19,210	6,096	31.72%	1	0.1%	3,069	1,229	3,372
1993	19,850	6,254	31.47%	23	0.3%	3,127	1,271	3,376
1994	20,270	6,751	31.31%	23	0.4%	3,205	1,278	3,397
1995	20,640	6,967	31.90%	26	0.3%	3,267	1,425	3,575
1996	21,580	7,419	31.64%	34	0.5%	3,617	1,540	3,749
1997	21,800	7,615	31.66%	14	0.1%	3,811	1,562	3,940
1998	21,879	7,685	32.01%	14	0.1%	3,926	1,623	4,019
1999	22,200	8,116	32.18%	13	0.1%	4,041	1,624	4,173
2000	22,019	8,091	32.04%	13	0.1%	4,156	1,720	4,296
2001	22,000	8,642	32.26%	16	0.1%	4,271	1,709	4,413
2002	22,481	8,803	32.40%	16	0.1%	4,385	1,781	4,533
2003	23,064	9,043	32.48%	17	0.0%	4,409	1,871	4,651
2004	23,889	9,401	32.60%	17	0.0%	4,611	1,921	4,757
2005	24,505	9,662	32.61%	18	0.0%	4,721	1,73	4,833
2006	25,258	9,903	32.73%	18	0.0%	4,832	1,025	4,950
2007	26,039	10,151	32.81%	13	0.0%	4,943	2,077	5,109
2008	26,669	10,360	32.93%	13	0.0%	5,049	2,127	5,219
2009	27,286	10,619	32.93%	13	0.0%	5,156	2,177	5,328
2010	27,950	10,878	32.95%	16	0.0%	5,263	2,220	5,474
2011	28,579	11,136	32.95%	15	0.0%	5,369	2,270	5,579
2012	29,171	11,395	32.95%	18	0.0%	5,476	2,321	5,694
2013	29,764	11,653	32.95%	18	0.0%	5,580	2,368	5,800
2014	30,381	11,911	32.96%	18	0.0%	5,682	2,417	5,921
2015	31,000	12,169	32.96%	18	0.0%	5,782	2,467	6,024
2016	31,640	12,428	32.97%	18	0.0%	5,883	2,500	6,012
2017	32,300	12,687	32.97%	18	0.0%	5,987	2,531	6,096
2018	32,982	12,946	32.97%	18	0.0%	6,088	2,570	6,222
2019	33,686	13,205	32.97%	18	0.0%	6,187	2,608	6,324

Actual Period Average (1980-1997)..... 29.33% 2,975
 Projected Period Average (1998-2020)..... 32.55% 32,475

Source: Nevada Department of Conservation and Forestry, Nevada State Water Control Board, Nevada State Water Control Board, Nevada State Water Control Board

Assumptions:
 M&I - Total Domestic Water Use per Person..... 240.9
 (M&I) Total Domestic Water Use Coefficient..... 0.2765
 Commercial & Industrial Water Use per Worker..... 180.0
 (Commercial & Industrial) Water Use Coefficient..... 0.2090

Note: The projected (2011) population assumption of 32,553 reflects:
 [1] Estimated annual net natural increase percent of 0.6% (with population being variable, supplied with scenario for Part 2 of this file)
 [2] Assumptions regarding employment - of mining sectors
 [3] M&I water use is based on population and water use per person (residential, commercial, industrial and domestic) use.
 Source: Population Assumptions - from Bureau of Economic Analysis - GNP, Employment - BLS; Employment Data - NVDP

Churchill County Water Withdrawal Forecasts

Part 2 Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Water Withdrawal Forecast 1980-2030	Forecasted Population on Public Water System [1]	Forecasted Public Supplied Water Use [1]	Forecasted Self-Supplied Domestic Water Use [1]	Forecasted Population on Public Water System [2]	Forecasted Variable Per Capita Public Supply Water Use [3]	Forecasted Public Supplied Domestic Water Use [4]	Forecasted Self-Supplied Domestic Water Use [5]	Forecasted Municipal Industrial & Other Water Use [6]
1980	8,310	1,353	840	-	-	-	-	-
1981	8,391	1,410	863	-	-	-	-	-
1982	8,471	1,468	887	-	-	-	-	-
1983	8,551	1,527	912	-	-	-	-	-
1984	8,631	1,587	938	-	-	-	-	-
1985	8,711	1,648	964	-	-	-	-	-
1986	8,791	1,710	991	-	-	-	-	-
1987	8,871	1,773	1,019	-	-	-	-	-
1988	8,951	1,837	1,048	-	-	-	-	-
1989	9,031	1,902	1,078	-	-	-	-	-
1990	9,111	1,968	1,109	-	-	-	-	-
1991	9,191	2,035	1,141	-	-	-	-	-
1992	9,271	2,103	1,174	-	-	-	-	-
1993	9,351	2,172	1,208	-	-	-	-	-
1994	9,431	2,242	1,243	-	-	-	-	-
1995	9,511	2,313	1,279	-	-	-	-	-
1996	9,591	2,385	1,316	12,922	59.71%	2,351	1,300	3,571
1997	9,671	2,458	1,354	13,577	59.80%	2,363	1,318	3,734
1998	9,751	2,532	1,393	14,219	60.01%	2,385	1,339	3,902
1999	9,831	2,607	1,433	14,948	60.10%	2,401	1,362	4,077
2000	9,911	2,683	1,474	15,766	60.31%	2,540	1,394	4,263
2001	9,991	2,760	1,516	16,674	60.46%	2,618	1,511	4,459
2002	10,071	2,838	1,560	17,672	60.51%	2,697	1,578	4,665
2003	10,151	2,917	1,605	18,760	60.77%	2,776	1,674	4,881
2004	10,231	2,997	1,651	19,937	60.92%	2,856	1,769	5,107
2005	10,311	3,078	1,700	21,215	61.07%	2,937	1,864	5,352
2006	10,391	3,160	1,750	22,592	61.22%	3,019	1,959	5,607
2007	10,471	3,243	1,801	24,069	61.38%	3,092	2,054	5,881
2008	10,551	3,327	1,853	25,647	61.68%	3,243	2,151	6,174
2009	10,631	3,412	1,907	27,325	61.84%	3,392	2,248	6,487
2010	10,711	3,498	1,962	29,102	61.99%	3,536	2,374	6,819
2011	10,791	3,585	2,019	30,979	62.17%	3,685	2,502	7,174
2012	10,871	3,673	2,077	32,957	62.30%	3,837	2,629	7,552
2013	10,951	3,762	2,137	35,034	62.40%	3,992	2,756	7,954
2014	11,031	3,852	2,198	37,211	62.61%	4,151	2,883	8,381
2015	11,111	3,943	2,260	39,488	62.77%	4,313	3,009	8,834
2016	11,191	4,035	2,323	41,865	62.94%	4,479	3,137	9,311
2017	11,271	4,128	2,388	44,342	63.09%	4,649	3,267	9,814
2018	11,351	4,222	2,455	46,919	63.20%	4,822	3,398	10,344
2019	11,431	4,317	2,524	49,606	63.40%	4,998	3,531	10,901
2020	11,511	4,413	2,595	52,403	63.60%	5,177	3,666	11,484

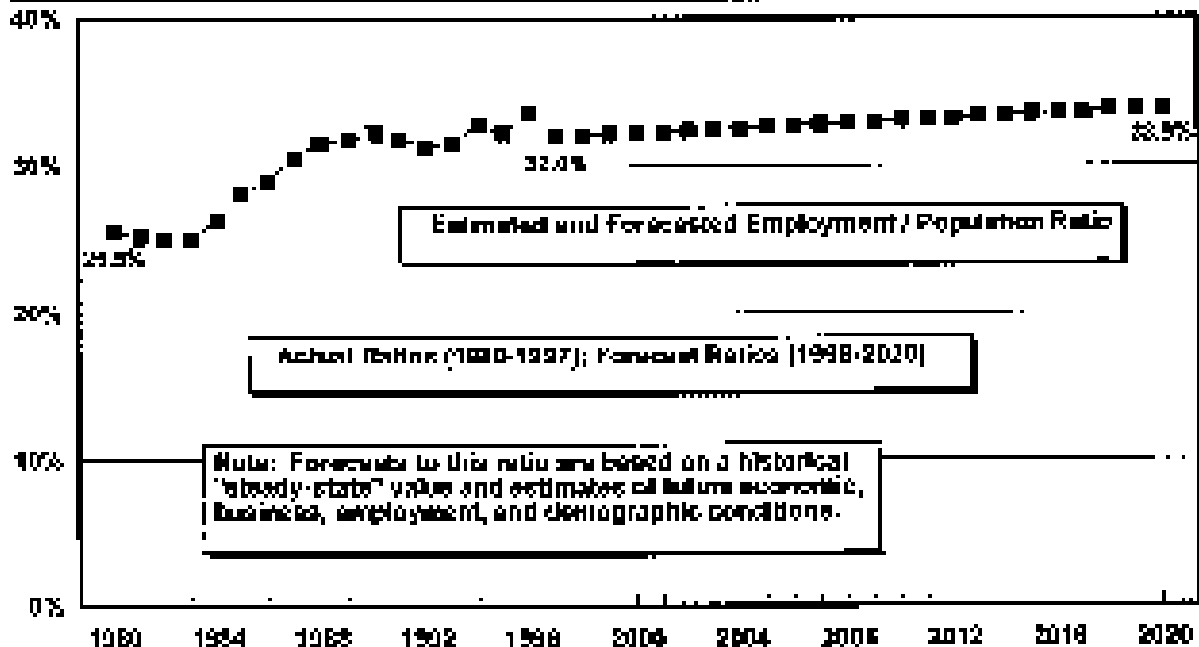
Assumptions:

- M&I Domestic Use (Other Support): 116.9 Gallons per person per day - public supply
 - Public Supply Water Use (Churchill County): 62.98 Gallons per person per day - public supply
 - Forecast Water Use per Person - Self-Supplied Water (Self-Supplied Water Use Coefficient): 133.7 Gallons per person per day - self-supply
 - 1990 Estimate: Regional Population on Public Supply: 48.78% (from the 1990 census population)
- Note: All forecasts are based on the population projections from the 1990 census.
- [1] Domestic forecasts are based on average per capita water use for public supplied water systems.
- [2] Domestic forecasts are based on a ratio of per capita water use for public supply to water systems (see table 3).
- [3] M&I forecasts include self-supplied domestic water use for agriculture, industry and domestic use.
- Source: Consultant estimates; Churchill County, Nevada; 1990 Census; Employment-2000; Employment-2000

Nevada Socioeconomic Analysis and Forecasts

Churchill County Employment-to-Population Ratios

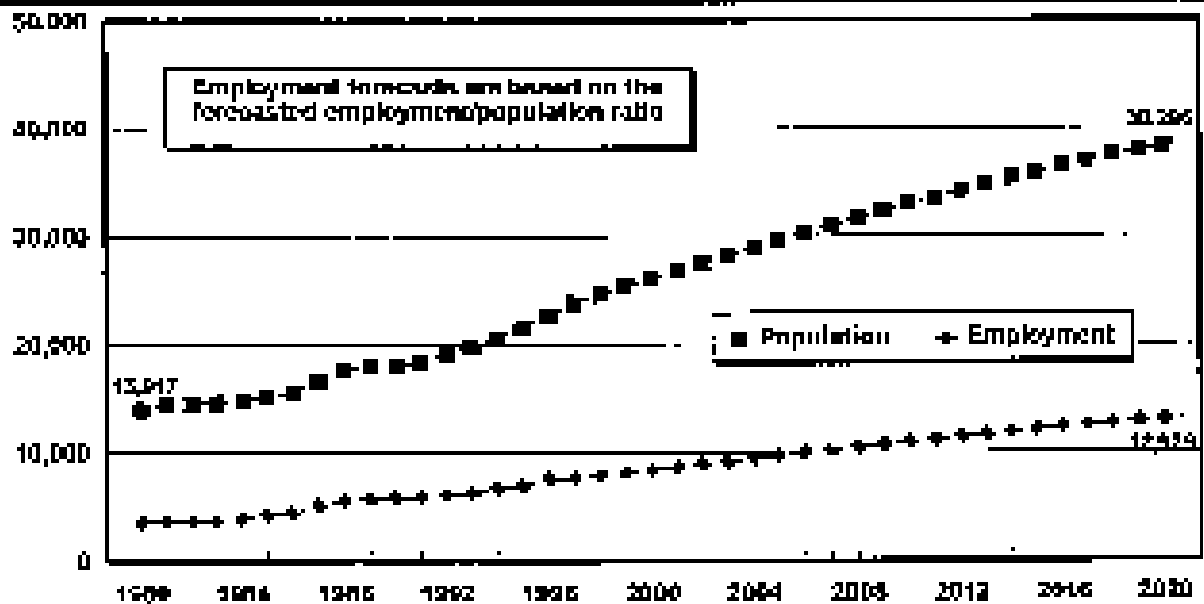
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographer, DCTR.

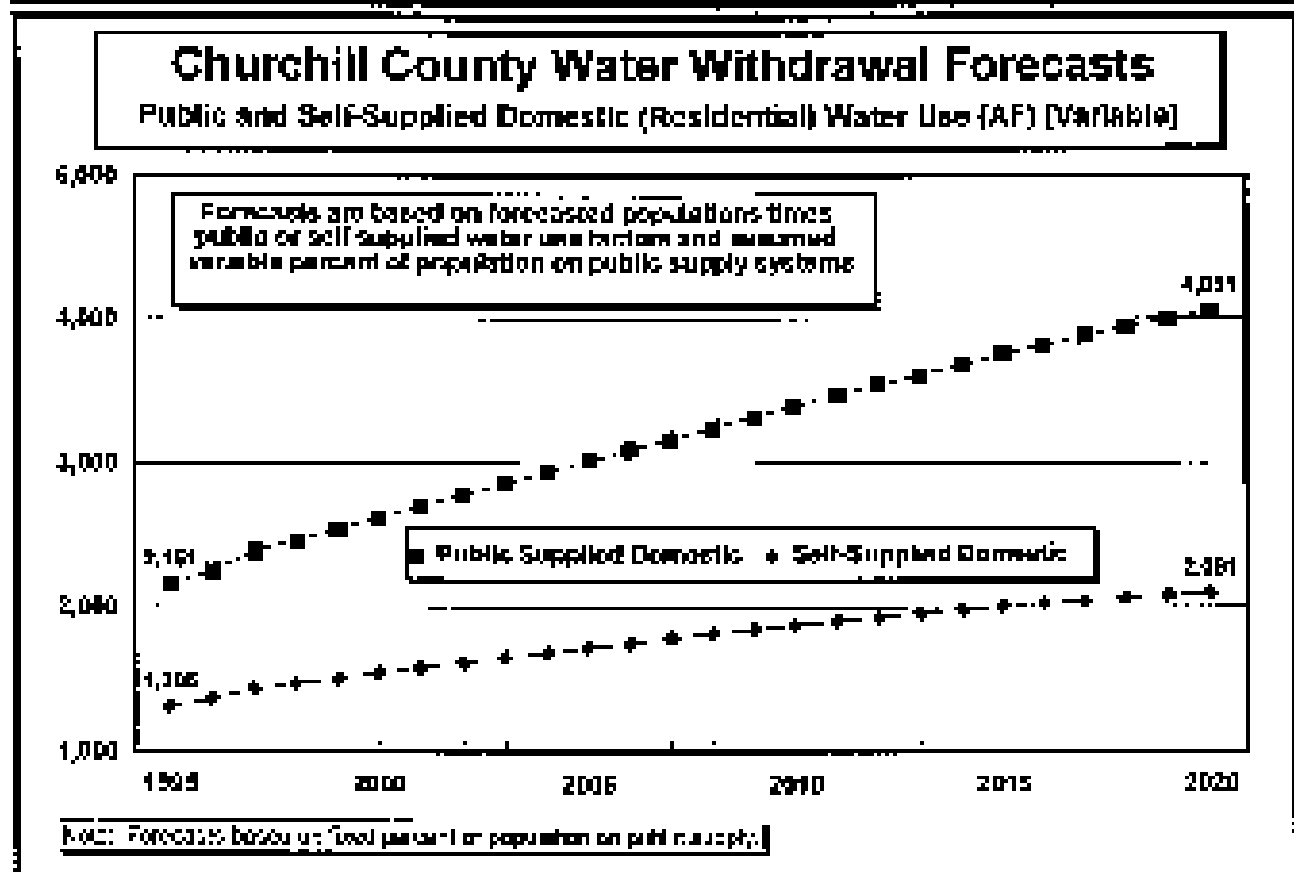
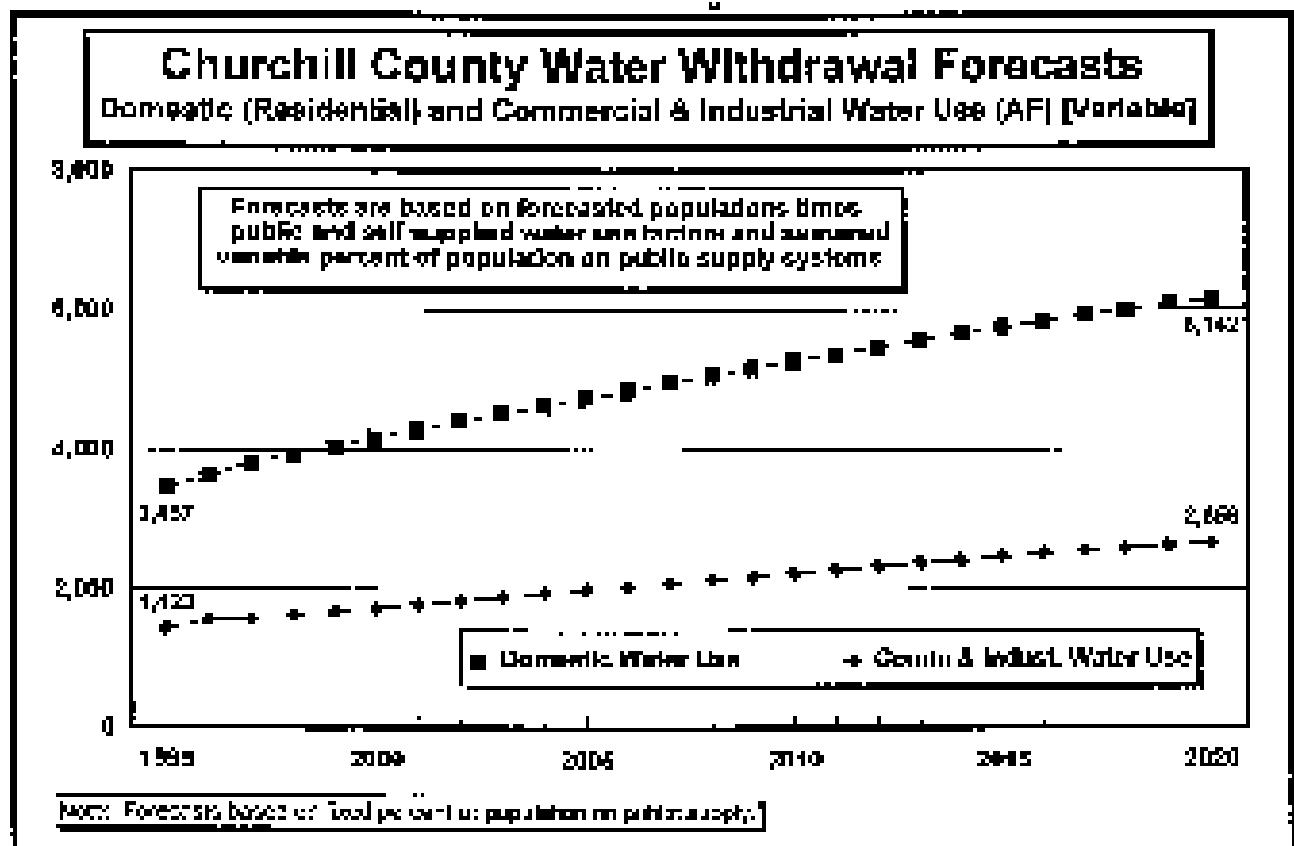
Churchill County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)



Source Data: Nevada State Demographer, DCTR.

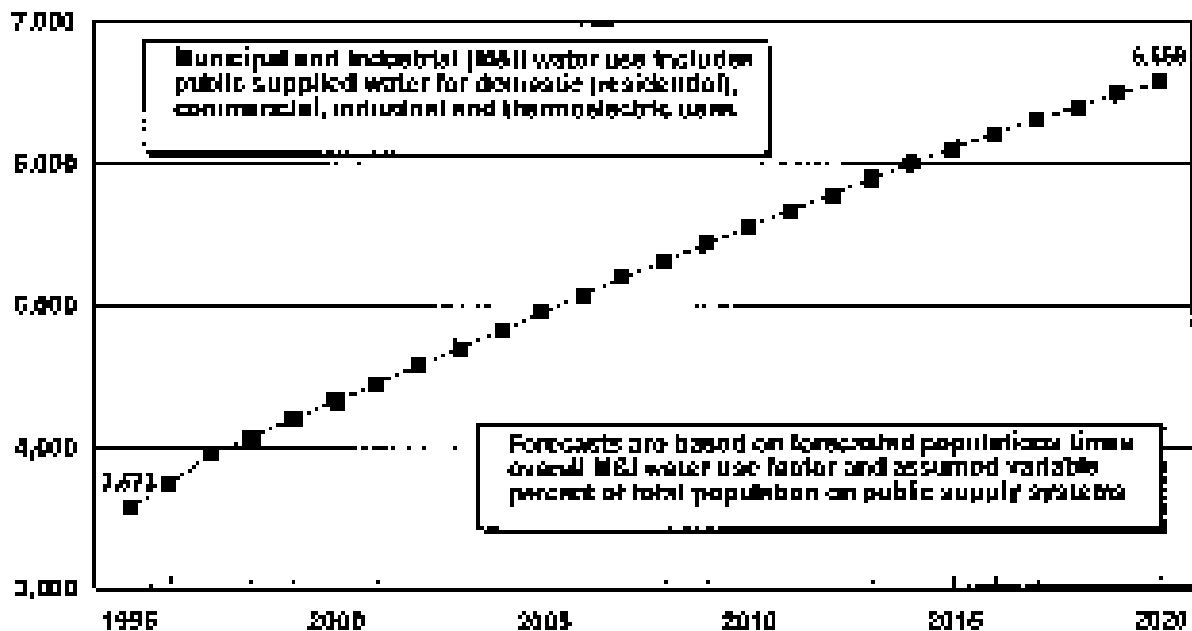
Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2

Churchill County Water Withdrawal Forecasts

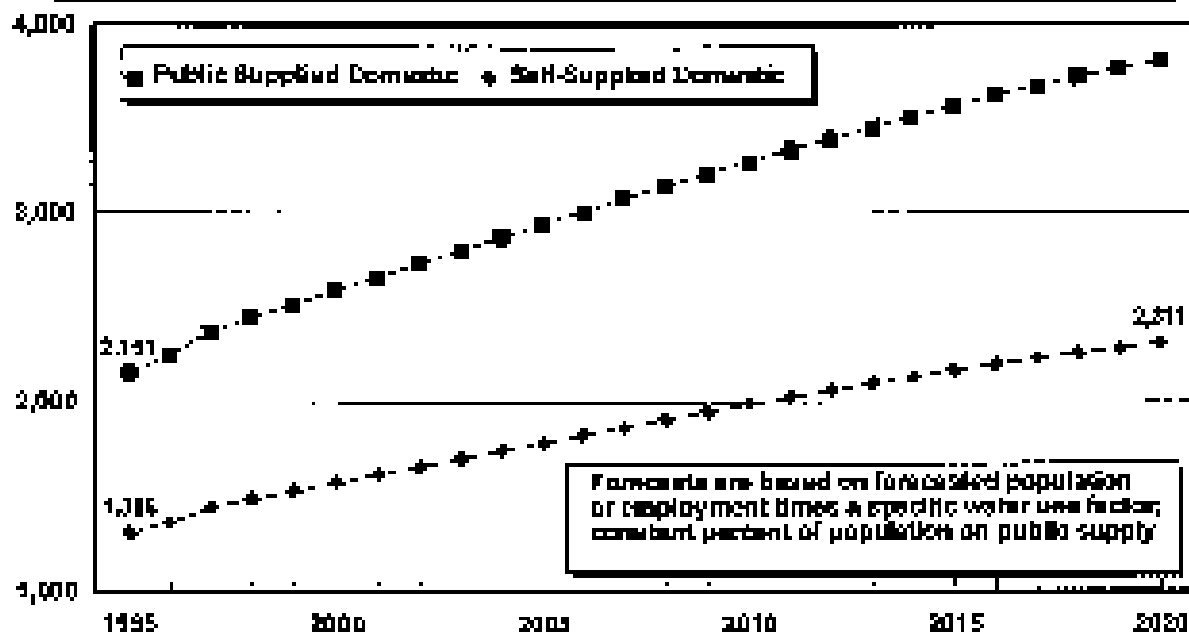
Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

Churchill County Water Withdrawal Forecasts

Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Clark County Water Withdrawal Forecasts

Part I-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Foot)

Year (1997-2018)	Estimated Residential Population	Estimated Total Commercial & Industrial Employment	Estimated Total Population	Estimated Non-farm Employment	Share of Total Commercial Employment	Forecasted Total Domestic & Industrial Water Use (1)	Forecasted Total Commercial & Industrial Water Use (2)	Forecasted Municipal & Industrial Water Use (3)
1990	455,087	314,782	46,00%	291	0.02%	170,247	52,072	149,775
1991	491,630	322,933	45.94%	304	0.03%	177,040	53,073	150,727
1992	527,530	315,213	42.76%	310	0.09%	120,823	52,267	146,163
1993	525,050	315,719	41.84%	292	0.13%	134,091	52,517	149,291
1994	529,030	291,584	42.04%	291	0.13%	138,327	53,834	137,611
1995	552,280	244,569	43.56%	247	0.10%	125,822	59,076	126,143
1996	567,700	262,739	44.36%	279	0.11%	120,028	52,813	115,231
1997	616,650	282,291	45.64%	269	0.10%	146,826	59,769	126,009
1998	661,670	305,213	46.28%	199	0.06%	157,329	73,811	141,547
1999	700,290	339,236	47.87%	256	0.03%	168,722	61,797	154,340
1990	750,280	374,231	48.55%	354	0.03%	153,351	60,259	161,288
1991	800,370	382,103	46.50%	232	0.06%	193,418	97,111	160,915
1992	850,350	350,065	45.53%	302	0.03%	203,872	91,016	171,255
1993	898,520	412,550	46.27%	403	0.15%	213,392	116,171	159,110
1994	971,890	437,143	43.00%	387	0.03%	231,379	119,807	154,215
1995	1,016,290	292,130	43.45%	443	0.09%	216,310	121,066	149,942
1996	1,114,610	518,282	46.12%	542	0.12%	265,717	111,668	146,123
1997	1,211,310	544,977	45.14%	571	0.13%	281,427	111,219	135,052
1998	1,311,147	676,187	51.22%	573	0.09%	391,883	141,134	152,167
1999	1,381,631	611,587	45.00%	585	0.09%	416,427	151,745	142,450
2000	1,551,168	656,399	45.27%	595	0.09%	522,571	165,632	146,502
2001	1,611,132	692,045	48.39%	599	0.09%	551,179	165,021	149,540
2002	1,675,093	716,709	48.31%	599	0.09%	571,444	171,072	141,263
2003	1,832,400	749,119	48.31%	599	0.09%	566,819	161,822	151,203
2004	1,987,021	781,194	49.28%	595	0.08%	597,823	163,352	151,150
2005	1,649,444	307,603	46.24%	611	0.07%	300,541	104,719	60,116
2006	1,652,040	333,302	46.24%	614	0.07%	402,062	101,049	62,707
2007	1,712,557	352,399	49.26%	603	0.07%	414,851	106,983	62,653
2008	1,789,155	381,543	49.27%	604	0.07%	424,932	117,536	64,911
2009	1,815,010	363,408	49.20%	610	0.07%	436,344	117,849	65,204
2010	1,871,311	361,531	49.30%	614	0.07%	446,746	118,823	65,266
2011	1,911,388	361,485	49.21%	618	0.07%	454,516	120,616	65,673
2012	1,949,398	361,733	49.22%	620	0.06%	461,713	121,914	71,867
2013	1,981,908	369,797	49.33%	621	0.06%	473,729	126,038	72,543
2014	2,016,010	399,167	49.38%	621	0.06%	479,947	129,003	73,103
2015	2,066,125	411,108	49.30%	621	0.06%	487,146	143,562	75,134
2016	2,074,271	410,771	49.37%	629	0.06%	479,912	147,011	75,093
2017	2,162,041	410,105	49.38%	617	0.06%	491,314	150,133	77,046
2018	2,128,287	401,291	49.30%	615	0.06%	496,678	153,324	75,251
2019	2,133,344	404,191	49.14%	617	0.06%	512,605	156,602	75,527
2020	2,178,346	406,617	49.14%	618	0.06%	513,728	156,339	75,510

Actual Period Average (1990-1997) 46.00% 2.00% Standard Deviation (1990-1997)

Forecast Period Average (1998-2020) 49.24% 48.00% Least-Squares Slide Period (1991-1997)

1997-1999 M&I Average only

1998 : Total Domestic Water Use per Person 103.2 203.5 Gallons per person per day

[M&I Total Domestic Water Use (Domestic)] 0.7941 0.2111 Acre-feet per person per year

Commercial & Industrial Water Use per Worker 219.1 219.1 Gallons per worker per day (includes mining)

[Commercial & Industrial Water Use (Domestic)] 0.7111 0.2111 Acre-feet per worker per year (includes mining)

Note: This forecast is based on population projections and employment forecasts. See Part II of this report for details on the methodology used to develop these forecasts.

(1) Excludes mining, irrigation, and other non-domestic water use.

(2) Excludes mining, irrigation, and other non-domestic water use.

(3) M&I includes all water use for mining, irrigation, and other non-domestic water use.

Source: Population and Employment Forecasts, Nevada Department of Conservation and Forestry, Nevada Department of Conservation and Forestry, Nevada Department of Conservation and Forestry.

Clark County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

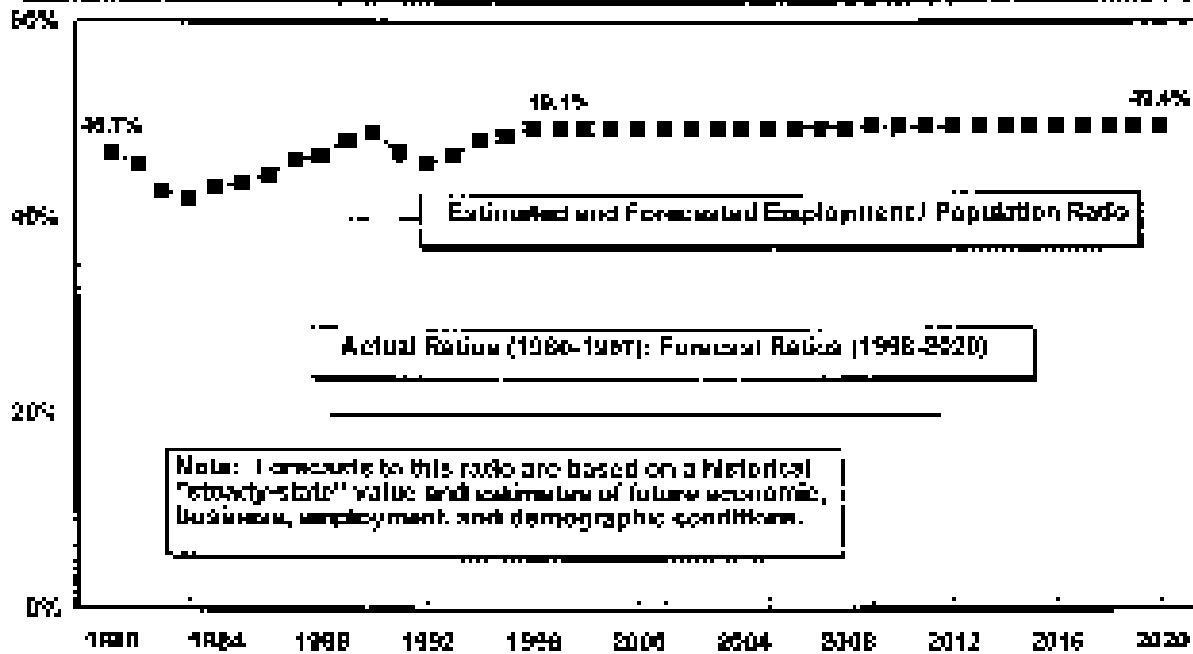
Year (Actual 1984-1997; Forecast 1998-2020)	Forecasted Population in Public Water Systems [1]	Forecasted Public Supplied Domestic Water Use [1]	Forecasted Self-Supplied Domestic Water Use [1]	Forecasted Population on Public Water Systems [2]	Variable Percent of Population on Public Supply [3]	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [2]	Forecasted Municipal & Industrial Domestic Water Use [1] [3]
1980	150,711	178,197	2,046	-	-	-	-	-
1981	151,457	174,459	3,122	-	-	-	-	-
1982	147,018	178,570	2,255	-	-	-	-	-
1983	144,196	22,658	2,321	-	-	-	-	-
1984	141,847	20,551	2,309	-	-	-	-	-
1985	139,676	17,166	2,196	-	-	-	-	-
1986	135,629	150,715	2,208	-	-	-	-	-
1987	133,932	144,969	2,337	-	-	-	-	-
1988	148,011	154,902	2,537	-	-	-	-	-
1989	146,098	146,188	2,148	-	-	-	-	-
1990	141,756	140,962	2,419	-	-	-	-	-
1991	146,171	151,721	2,619	-	-	-	-	-
1992	159,643	200,070	2,821	-	-	-	-	-
1993	179,453	220,826	2,986	-	-	-	-	-
1994	191,392	237,019	4,313	-	-	-	-	-
1995	204,867	242,110	4,020	1,014,067	90.90%	242,110	1,000	125,922
1996	202,820	240,110	4,054	1,002,142	90.96%	240,734	1,485	109,119
1997	197,591	233,514	3,999	1,148,138	97.99%	236,675	2,107	107,721
1998	1,297,870	289,114	5,171	1,206,736	95.02%	246,185	3,282	112,383
1999	1,252,175	301,105	5,077	1,261,421	98.02%	251,101	3,450	102,291
2000	1,327,549	313,657	6,018	1,379,029	98.05%	2,706,1	3,610	497,248
2001	1,317,836	331,087	6,291	1,389,919	98.05%	321,389	1,645	320,643
2002	1,443,781	344,862	6,332	1,448,112	98.10%	345,466	1,009	341,703
2003	1,570,72	378,017	6,802	1,555,725	98.17%	358,335	3,157	480,523
2004	1,650,013	370,238	7,045	1,637,312	98.15%	371,613	6,295	581,645
2005	1,719,573	381,259	7,272	1,616,202	98.19%	384,218	6,438	491,000
2006	1,838,049	385,049	7,515	1,687,814	98.20%	398,579	6,535	621,741
2007	1,795,253	407,136	7,715	1,715,60	98.23%	408,339	6,634	640,075
2008	1,732,117	417,891	7,912	1,710,000	98.25%	419,251	6,717	657,277
2009	1,795,117	428,245	8,137	1,801,110	98.28%	429,770	6,783	673,515
2010	1,835,651	437,326	8,326	1,845,577	98.30%	439,571	6,846	688,845
2011	1,875,813	447,323	8,493	1,891,325	98.31%	448,814	6,907	703,266
2012	1,919,168	455,337	8,633	1,937,720	98.32%	457,497	6,969	716,802
2013	1,949,915	461,172	8,807	1,981,735	98.33%	465,612	6,925	729,463
2014	1,974,379	471,140	8,916	1,983,753	98.40%	471,045	6,931	741,370
2015	2,005,928	478,062	9,001	2,013,97	98.42%	480,419	6,926	752,390
2016	2,031,841	484,722	9,210	2,043,114	98.45%	487,275	6,913	762,184
2017	2,053,585	491,153	9,321	2,069,576	98.47%	493,811	6,897	771,334
2018	2,084,372	497,280	9,447	2,096,289	98.50%	500,097	6,887	780,128
2019	2,114,094	503,116	9,559	2,121,715	98.52%	506,163	6,874	788,565
2020	2,133,000	508,181	9,658	2,146,191	98.55%	512,030	6,797	801,200

Assumptions: 1.5% Domestic Water Demand Growth Rate
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Nevada Socioeconomic Analysis and Forecasts

Clark County Employment-to-Population Ratios

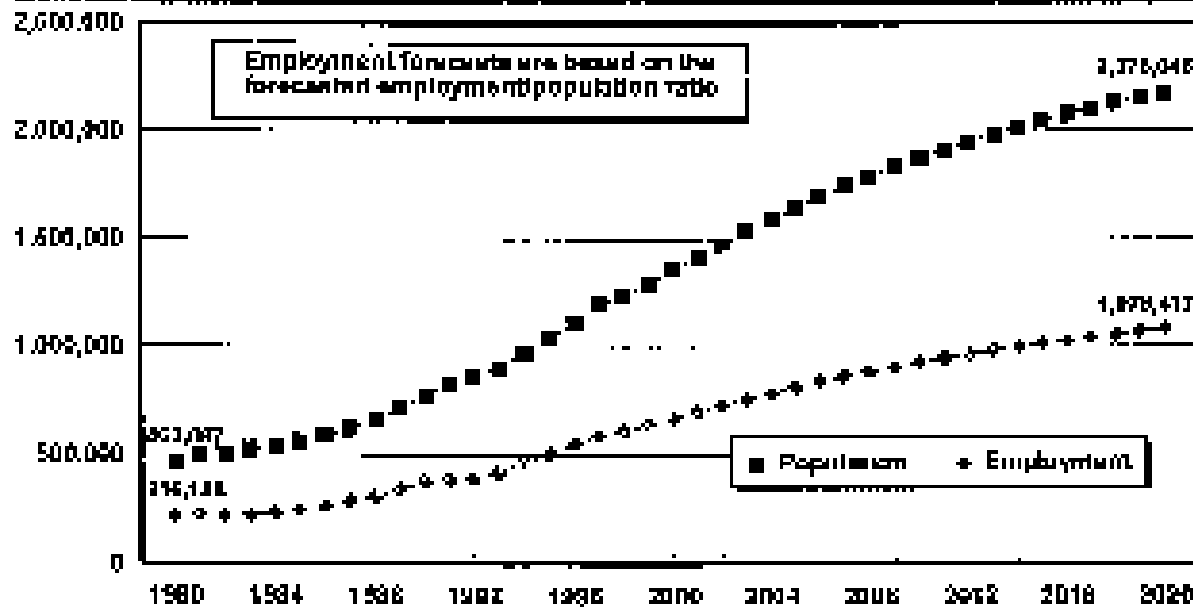
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data Nevada State Department of Health

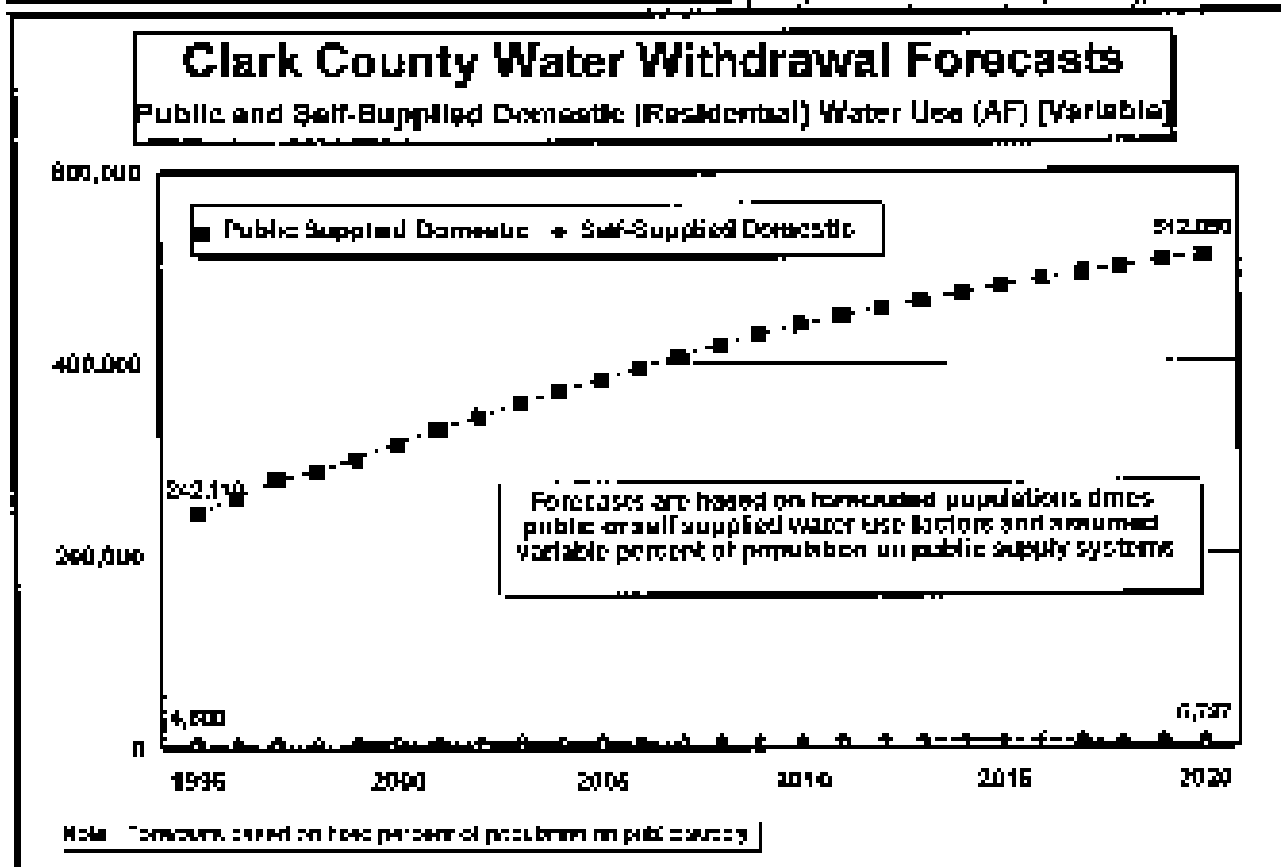
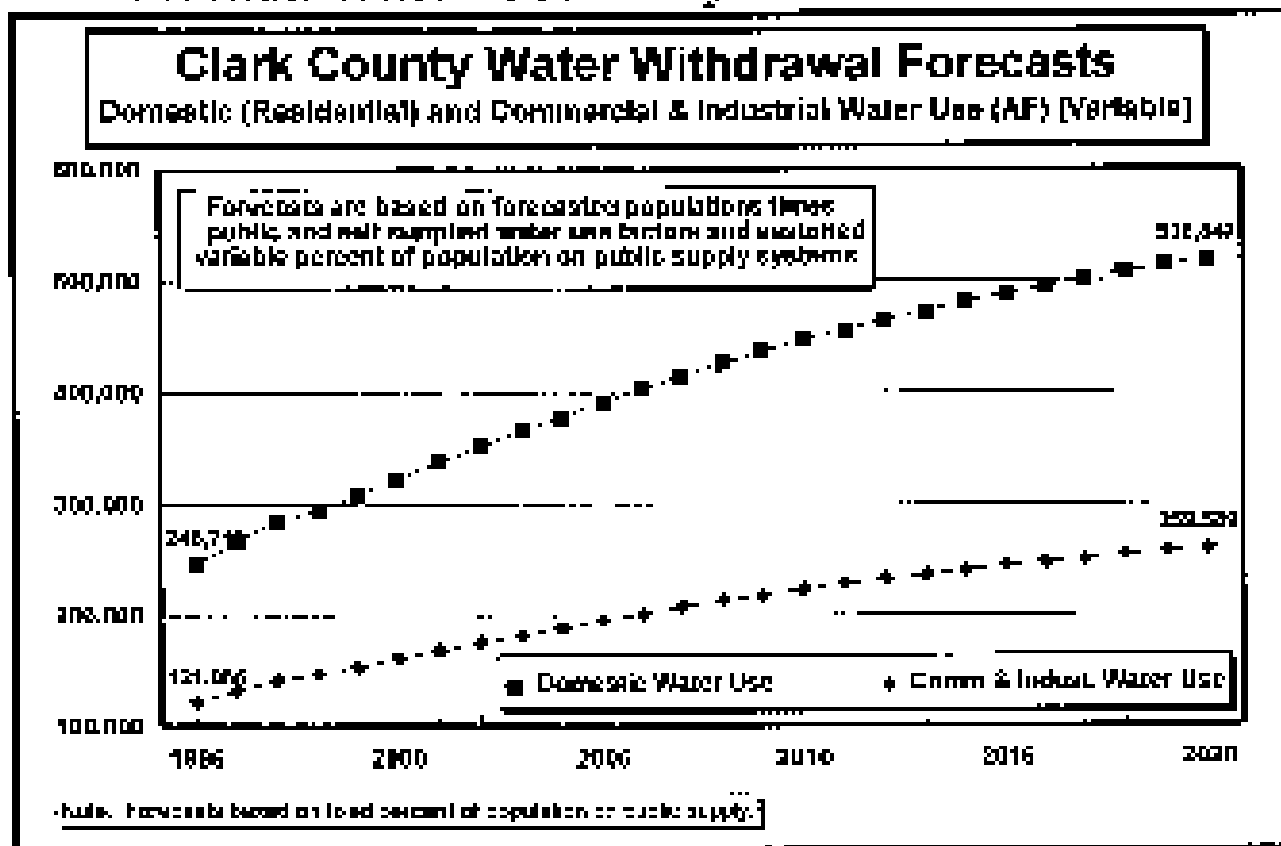
Clark County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

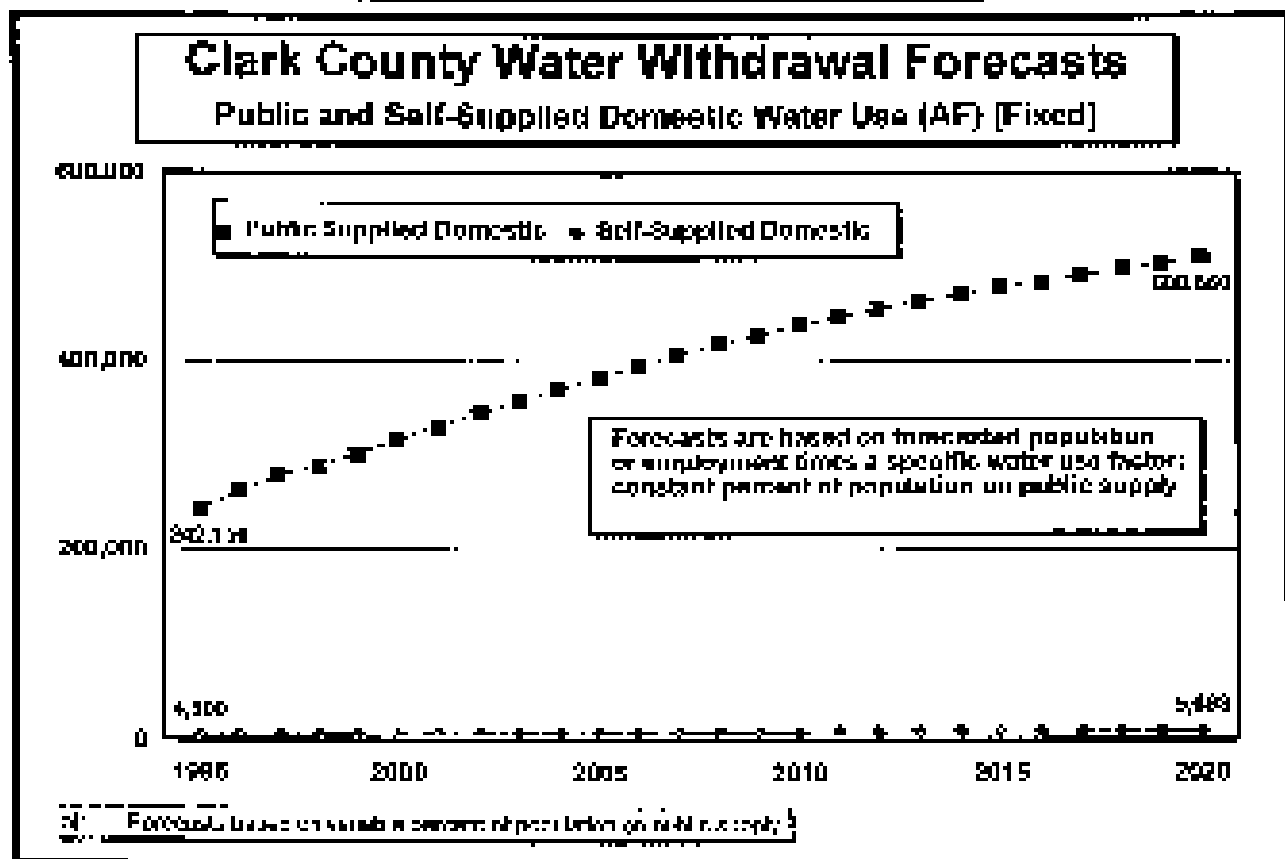
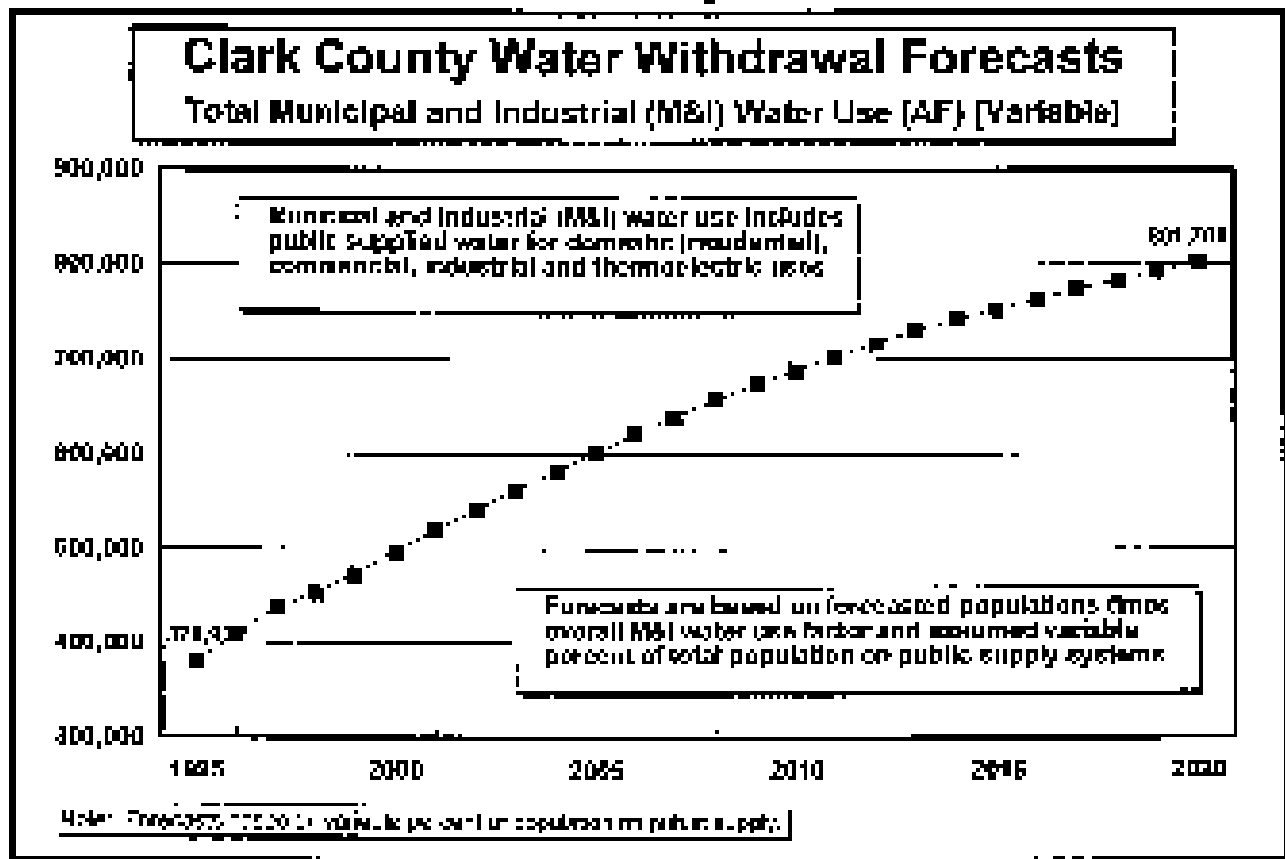


Source: Data Nevada State Department of Health

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



Douglas County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year	Actual 1980-1997 Forecast 1998-2020	Estimated and Forecasted Residential Population	Estimated and Forecasted Total Inland Employment	Estimated and Forecasted Population	Estimated and Forecasted Mining Employment	Share of Total County Employment	Forecasted Total Domestic (Residential) Water Use (AF)	Forecasted Total Commercial and Industrial (M&I) Water Use (AF)	Forecasted Total Municipal & Industrial Water Use (AF)
1980		19,421	15,265	34,686%	12	0.01%	5,940	2,291	8,231
1981		20,410	15,765	36,175%	11	0.03%	5,980	2,391	8,371
1982		20,880	16,709	37,589%	16	0.11%	6,114	2,515	8,629
1983		21,310	17,707	39,017%	16	0.11%	6,244	2,625	8,869
1984		21,990	18,269	40,259%	22	0.35%	6,431	2,732	9,163
1985		22,000	17,131	39,131%	21	0.40%	6,732	2,927	9,659
1986		24,030	17,253	41,283%	45	0.27%	7,191	2,940	10,131
1987		25,070	16,957	42,027%	24	0.14%	7,545	2,850	10,395
1988		25,905	17,111	43,016%	41	0.25%	7,839	2,954	10,793
1989		26,957	18,338	45,295%	13	0.07%	7,891	3,122	11,013
1990		28,070	18,275	46,345%	4	0.03%	8,215	3,129	11,344
1991		28,610	17,719	46,329%	1	0.02%	8,442	3,028	11,470
1992		29,170	17,471	46,641%	13	0.07%	8,615	2,977	11,592
1993		29,550	17,891	47,441%	10	0.09%	8,919	3,045	11,964
1994		29,650	18,394	48,044%	19	0.11%	9,138	3,125	12,263
1995		29,800	19,201	49,001%	19	0.11%	9,113	3,240	12,353
1996		30,000	19,395	49,395%	15	0.11%	9,782	3,247	13,029
1997		30,000	19,441	49,441%	35	0.18%	11,502	3,540	15,042
1998		40,631	20,035	60,666%	35	0.18%	11,717	3,729	15,446
1999		41,051	20,625	61,676%	36	0.17%	12,234	3,817	16,051
2000		42,124	21,115	63,239%	36	0.17%	12,551	3,866	16,417
2001		43,012	21,620	64,632%	36	0.17%	12,867	3,894	16,761
2002		44,789	22,132	66,921%	16	0.16%	13,187	3,882	17,069
2003		46,060	22,603	68,663%	16	0.16%	13,496	3,860	17,356
2004		47,124	23,108	70,232%	17	0.15%	13,816	3,856	17,672
2005		48,130	23,671	71,801%	17	0.15%	14,137	3,841	17,978
2006		49,225	24,165	73,390%	39	0.15%	14,457	3,825	18,282
2007		50,279	24,651	74,930%	39	0.15%	14,776	3,810	18,586
2008		51,279	25,115	76,394%	39	0.15%	15,095	3,795	18,890
2009		52,261	25,619	77,880%	39	0.15%	15,415	3,780	19,195
2010		53,221	26,104	79,325%	39	0.15%	15,735	3,765	19,500
2011		54,167	26,578	80,745%	39	0.15%	16,055	3,750	19,805
2012		55,111	27,052	82,163%	39	0.15%	16,375	3,735	20,110
2013		56,021	27,525	83,546%	39	0.15%	16,695	3,720	20,415
2014		56,910	28,000	84,910%	39	0.15%	17,015	3,705	20,720
2015		57,771	28,475	86,246%	39	0.15%	17,335	3,690	21,025
2016		58,721	28,950	87,671%	39	0.15%	17,655	3,675	21,330
2017		59,574	29,425	89,000%	39	0.15%	17,975	3,660	21,635
2018		60,360	29,900	90,260%	39	0.15%	18,295	3,645	21,940
2019		61,127	30,375	91,502%	39	0.15%	18,615	3,630	22,245
2020		61,854	30,848	92,702%	39	0.15%	18,935	3,615	22,550

Actual Period Average (1980-1997)..... 61.80% ■ 95% standard Deviation (1980-1997)

Forecast Period Average (1998-2020).... 18.90% ■ 95% Inter-Quartile Range Period (1998-1997).....

Assumptions: ■ M&I Water Intensity

M&I Total Domestic Water Use per Person (.....) 26.00 Gallons per person per day

[M&I Total Domestic Water Use Coefficient] 0.1157 20250 Gallons per person per year

Commercial & Industrial Water Use per Worker (.....) 1532 Gallons per worker per day (includes mining)

[Commercial & Industrial Water Use Coefficient] 0.1710 400000 Gallons per worker per year (includes mining)

Note: Use assumes M&I is equivalent to population of 45551 workers

[1] Forecasted data is based on the most recent available population data as published by the Nevada State Data Center (SDC)

[2] Employment figures are based on the most recent available data

[3] M&I Water Use Intensity is based on the most recent data (generally, 2000-2010) available from the Nevada State Data Center (SDC)

Source: Population and Mining-See Demographic Population Trends-2020 P. Employment-2018, Nevada State Data Center-SDC

Douglas County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

Year: Actual 1994-1995 Forecast 1996-2016	Forecasted Population on Public Water System (1)	Forecasted Public supplied Domestic Water Use (Acre-Feet) (1)	Forecasted Self-Supplied Domestic Water Use (Acre-Feet) (1)	Forecasted Population on Public Water Systems (2)	Variable Domestic Population on Public Supply	Forecasted Public supplied Domestic Water Use (2)	Forecasted Self-Supplied Domestic Water Use (2)	Forecasted Municipal Industrial Water Use (2)(3)
1990	15,496	5,128	212					
1991	16,447	5,142	230					
1992	16,820	5,207	251					
1993	17,157	5,282	262					
1994	17,870	5,365	280					
1995	18,790	5,452	307					
1996	19,618	5,467	324					
1997	20,585	5,582	342					
1998	21,532	5,705	374					
1999	22,250	5,830	371					
2000	23,045	5,951	370					
2001	23,548	6,057	378					
2002	24,077	6,152	382					
2003	24,170	6,225	393					
2004	24,323	6,284	399	22,021	90.09%	6,566	377	11,074
2005	24,764	6,325	395	22,071	90.11%	6,955	382	11,271
2006	25,465	6,355	405	22,682	90.12%	7,251	384	12,220
2007	26,048	6,392	407	23,000	90.15%	7,582	386	12,580
2008	26,810	6,432	410	23,331	90.18%	7,931	389	12,925
2009	27,358	6,420	413	23,635	90.20%	8,254	390	13,240
2010	28,002	6,403	415	23,819	90.22%	8,558	391	13,526
2011	28,525	6,395	417	24,000	90.24%	8,846	392	13,792
2012	29,004	6,380	418	24,177	90.27%	9,102	394	14,030
2013	29,432	6,364	419	24,348	90.29%	9,332	395	14,279
2014	29,801	6,347	422	24,517	90.31%	9,538	396	14,508
2015	30,149	6,324	429	24,667	90.32%	9,719	397	14,713
2016	30,325	6,300	432	24,812	90.36%	9,870	398	14,888
2017	30,495	6,272	433	24,946	90.38%	10,004	398	15,037
2018	30,601	6,240	430	25,066	90.40%	10,127	398	15,166
2019	30,665	6,202	412	25,180	90.42%	10,237	398	15,271
2020	30,720	6,158	407	25,291	90.43%	10,327	398	15,360
2021	30,775	6,107	401	25,393	90.44%	10,409	398	15,435
2022	30,829	6,050	395	25,494	90.45%	10,484	398	15,500
2023	30,883	6,002	388	25,591	90.47%	10,550	398	15,556
2024	30,937	5,954	381	25,682	90.48%	10,607	398	15,606
2025	30,991	5,905	374	25,770	90.49%	10,656	398	15,652
2026	31,045	5,855	367	25,856	90.50%	10,706	398	15,697
2027	31,100	5,804	360	25,941	90.51%	10,757	398	15,740
2028	31,154	5,752	353	26,024	90.52%	10,809	398	15,781
2029	31,209	5,699	346	26,105	90.53%	10,862	398	15,820
2030	31,263	5,645	339	26,184	90.54%	10,917	398	15,858
2031	31,318	5,590	332	26,261	90.56%	10,974	398	15,895
2032	31,372	5,534	325	26,337	90.58%	11,032	398	15,931

Assumptions:

- M&I Domestic Use Person = Public supplied water: 206.0 Gallons per person per day - public supply
- [Public supplied Water Use Coefficient] 11.447 Acre-feet per acre per year
- Domestic Water Use per Person = Self-Supplied Water 237.7 Gallons per person per day - self supply
- [Self-Supplied Water Use Coefficient] 0.2502 Acre-feet per person per year
- 1994 Forecasted Ratio of Population on Public Supply: 90.09% Percent of total resident population

Note: Douglas County's population is projected to approximately 325,115 by the year 2030.

(1) Total water withdrawn includes the combined percent of total resident population having access to public supplied water systems.

(2) Forecasted municipal industrial water use is based on a variable percent of total resident population on public supplied water systems over the time 1994 through 2030.

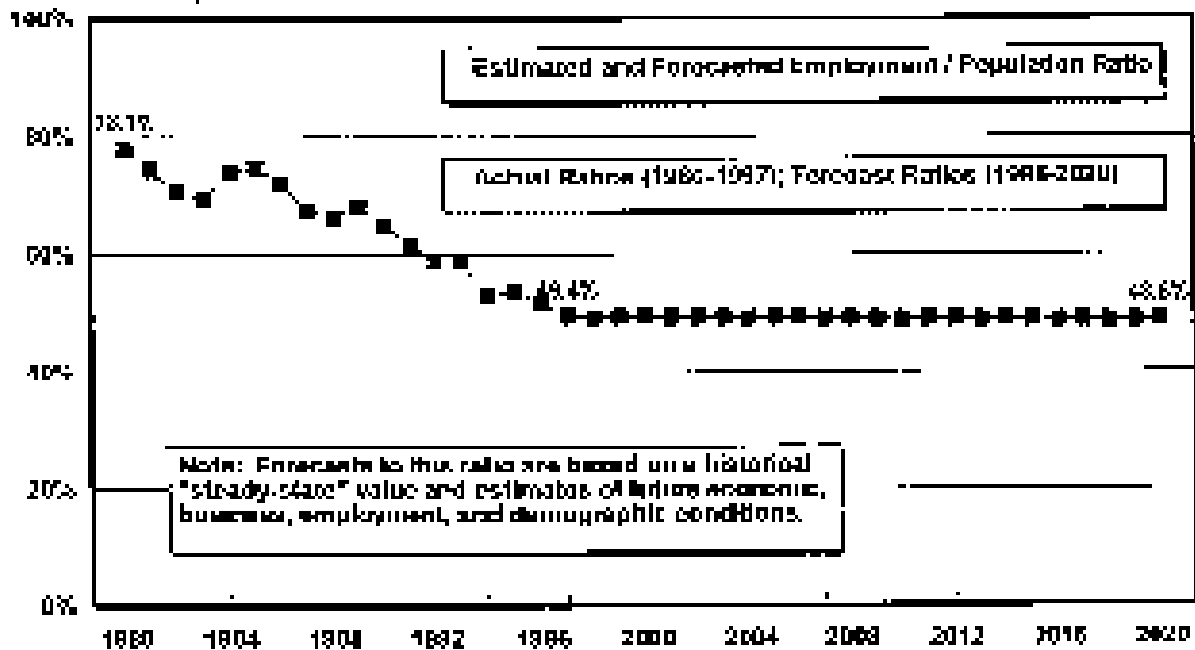
(3) M&I water use includes public supplied water for domestic, commercial, industrial and livestock uses.

Source: Douglas County Staff, Douglas County Department of Public Works, 2017. Population Forecast - M&I

Nevada Socioeconomic Analysis and Forecasts

Douglas County Employment-to-Population Ratios

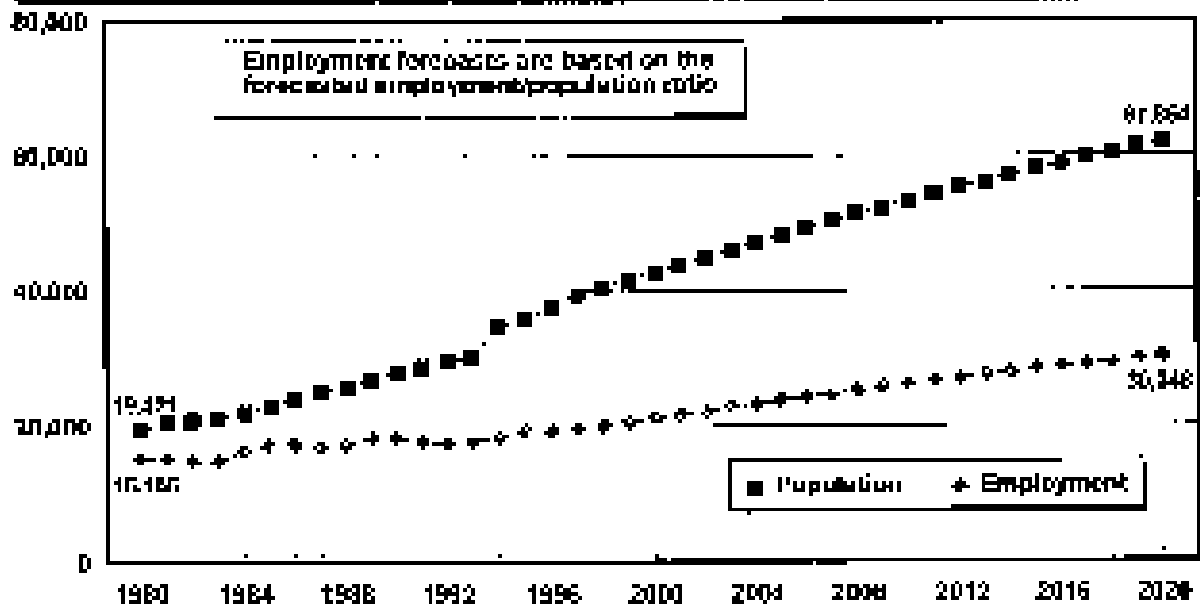
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographic, DETR

Douglas County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

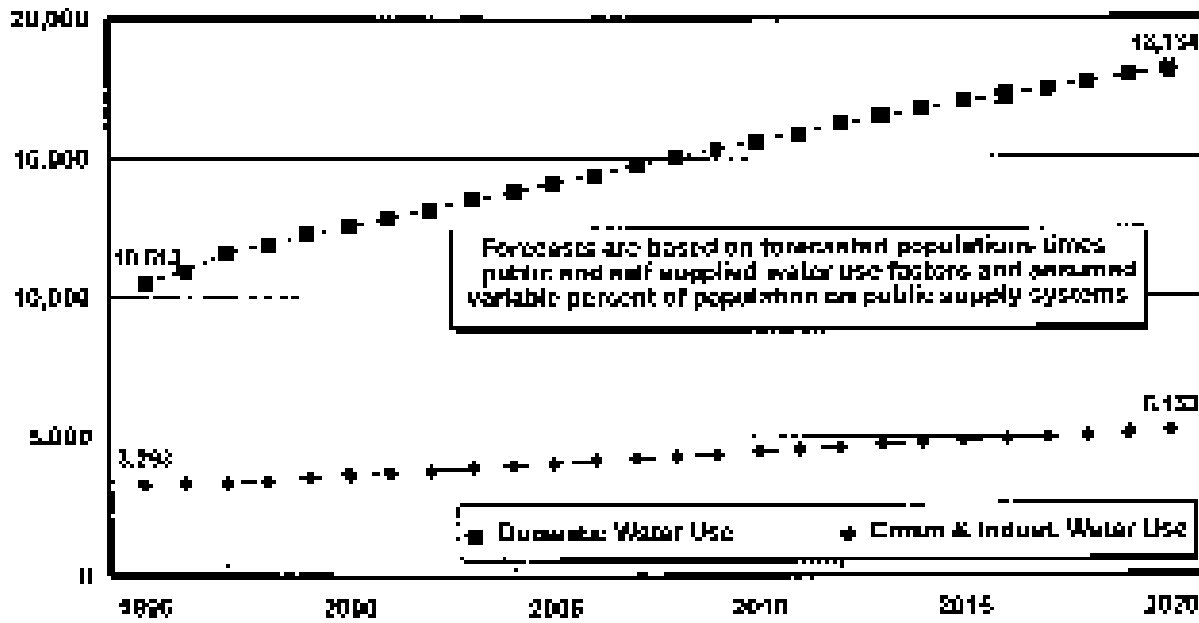


Source Data: Nevada State Demographic, DETR

Nevada Water Use Analysis and Forecasts-1

Douglas County Water Withdrawal Forecasts

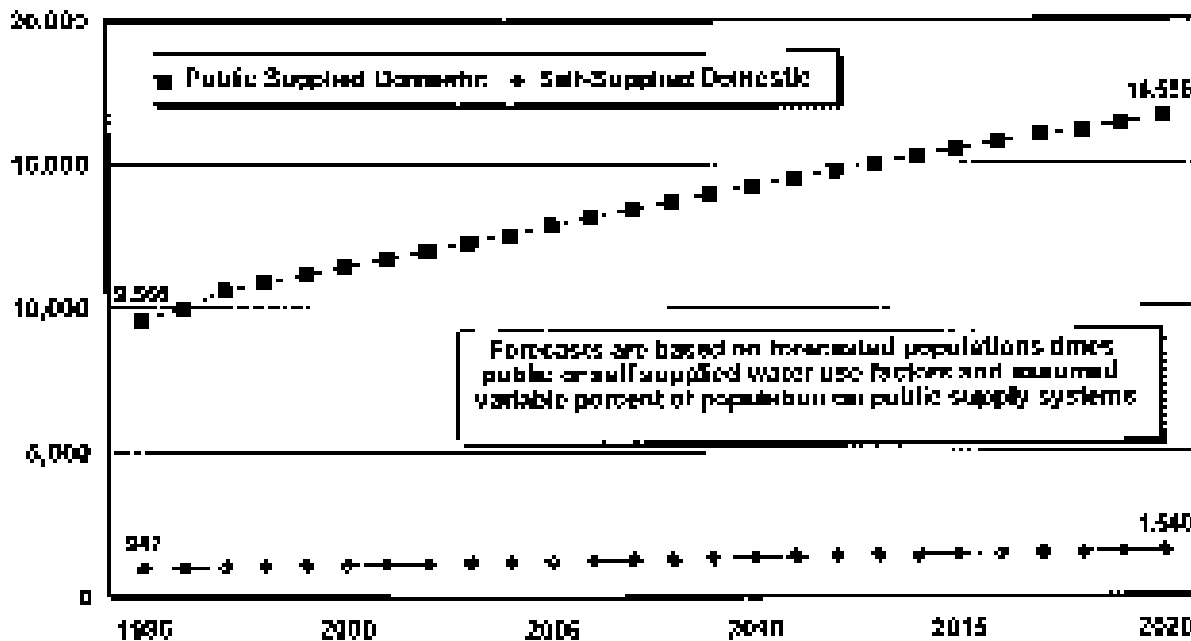
Domestic (Residential) and Commercial & Industrial Water Use (AF) [Variable]



Note: Forecasts based on fixed percent of population on public supply.

Douglas County Water Withdrawal Forecasts

Public and Self-Supplied Domestic (Residential) Water Use (AF) [Variable]

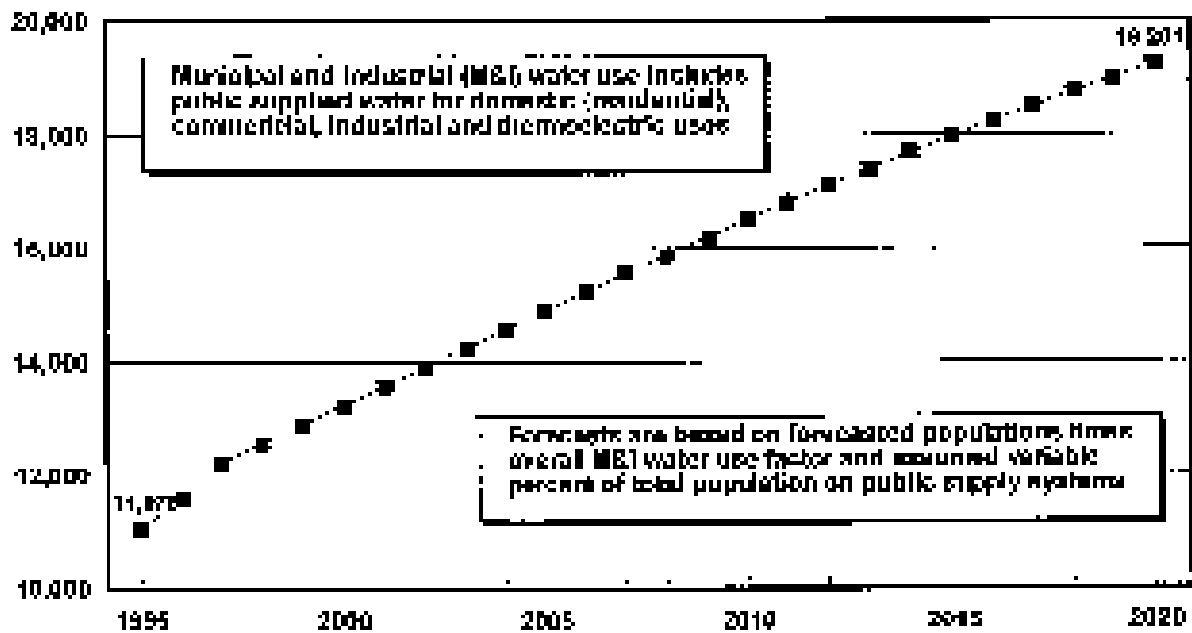


Note: Forecasts based on fixed percent of population on public supply.

Nevada Water Use Analysis and Forecasts-2

Douglas County Water Withdrawal Forecasts

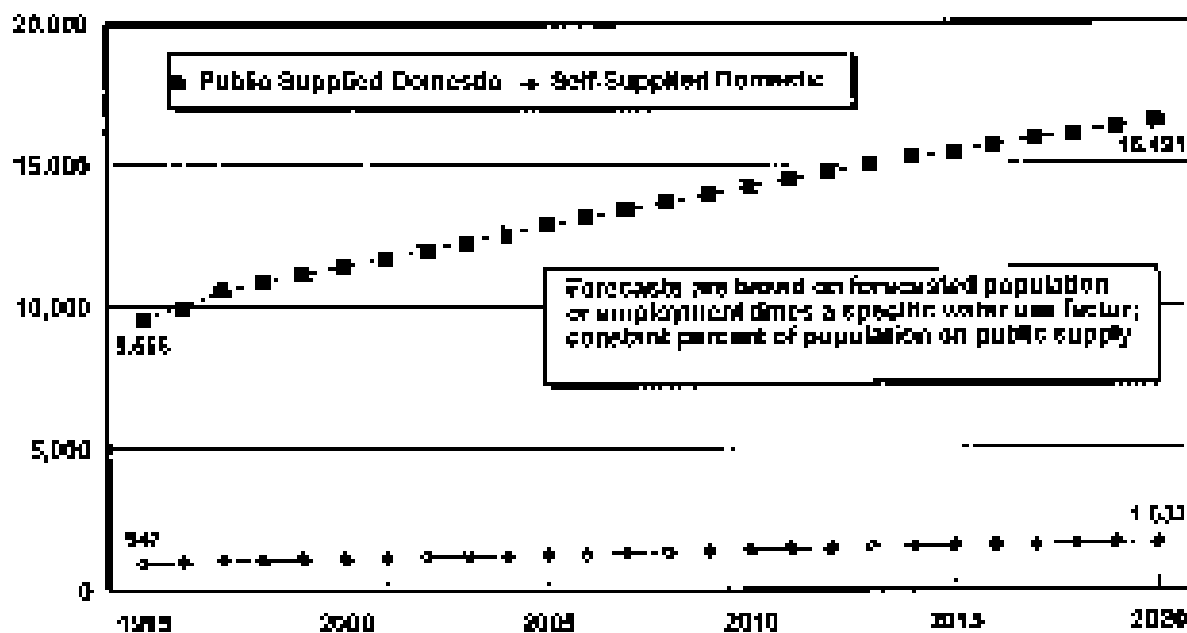
Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

Douglas County Water Withdrawal Forecasts

Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Elko County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Feet)

Year	Actual Forecasted (and) Estimated (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)	Estimated (and) Forecasted (acres-Feet)
1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000-2009	2010-2019	2020-2029	2030-2039
1940	12,769	5,275	43.66%	51	5.6%	6,811	3,343	5,063	
1941	12,650	4,961	43.99%	74	5.7%	6,067	3,823	6,456	
1942	19,430	9,054	46.58%	819	8.9%	6,760	3,827	6,750	
1943	20,150	9,390	46.41%	681	7.9%	6,108	4,022	7,087	
1944	20,170	10,150	47.31%	793	7.7%	6,028	4,340	7,424	
1945	22,050	10,700	47.19%	771	7.9%	6,120	4,545	7,760	
1946	22,000	10,600	47.68%	793	6.9%	6,06	4,620	8,282	
1947	24,000	11,152	45.95%	903	8.4%	6,444	4,850	8,422	
1948	27,000	12,167	45.03%	1,052	7.9%	6,208	5,623	9,361	
1949	31,800	12,767	40.39%	1,180	7.9%	6,100	6,320	11,551	
1950	32,000	14,271	44.39%	1,289	8.0%	6,508	6,282	11,704	
1951	35,900	15,543	43.14%	1,420	8.9%	6,581	6,796	12,155	
1952	37,000	15,940	42.90%	1,395	8.7%	10,009	6,766	13,069	
1953	39,000	16,540	42.15%	1,374	8.0%	10,508	7,204	13,651	
1954	41,000	17,561	42.62%	1,700	8.0%	11,113	7,543	14,300	
1955	41,000	18,000	43.67%	1,091	8.6%	11,308	7,842	14,970	
1956	40,600	19,217	47.11%	1,513	8.0%	12,250	8,169	15,801	
1957	40,000	20,188	49.36%	1,48	8.0%	12,850	8,721	16,511	
1958	40,24	20,250	49.11%	428	5.8%	13,229	8,908	16,946	
1959	30,360	21,314	49.12%	423	5.6%	13,554	9,753	17,454	
2020	51,643	21,371	41.19%	443	6.4%	15,915	9,914	19,026	
2021	52,351	20,421	41.14%	406	6.2%	14,262	9,715	18,352	
2022	54,217	22,968	42.16%	3,504	6.0%	14,602	10,052	18,370	
2023	55,658	23,406	42.16%	1,379	5.8%	14,857	10,246	19,200	
2024	56,673	24,515	42.18%	1,362	5.6%	15,764	10,517	19,641	
2025	57,857	24,529	42.39%	1,342	5.4%	15,981	10,762	20,252	
2026	59,069	25,013	42.40%	1,344	5.2%	15,991	10,011	20,451	
2027	60,127	25,180	42.11%	1,347	5.2%	16,91	11,234	20,450	
2028	61,730	25,905	42.12%	1,317	5.1%	16,483	11,450	21,310	
2029	63,214	26,508	42.11%	1,319	5.0%	16,742	11,626	21,706	
2030	64,204	26,870	42.14%	1,317	4.9%	17,028	11,806	22,917	
2031	64,156	27,609	42.15%	1,300	4.8%	17,382	12,052	23,230	
2032	65,058	27,609	42.14%	1,300	4.6%	17,522	12,226	23,400	
2033	65,890	27,931	42.40%	1,318	4.7%	17,748	12,399	23,800	
2034	66,681	28,421	42.48%	1,342	4.7%	17,960	12,551	24,110	
2035	67,403	28,643	42.49%	1,138	4.5%	18,155	12,700	24,360	
2036	68,075	28,694	42.16%	1,130	4.6%	18,375	12,878	24,560	
2037	68,681	29,170	42.41%	335	4.3%	18,498	13,060	24,820	
2038	69,224	29,427	42.52%	33	4.3%	18,614	13,007	24,991	
2039	69,701	29,647	42.55%	323	4.3%	18,773	13,125	24,157	
2040	70,113	29,850	42.58%	313	4.2%	18,961	13,241	24,290	

Annual Period Average (1940-1997)..... 43.18% 5.16% Standard Deviation (1940-1997)
 Domestic Period Average (1950-2020)..... 42.43% 4.63% Lorenz/Moran Statistic Period (1944-1997)

Assumptions:
 1) 100% Total Domestic Water Use as Reported..... 531.7 Gallons per acre per year
 2) 100% Total Domestic Water Use Coefficient..... 0.2093 Gallons per acre per year
 3) Commercial & Industrial Water Demand Worker..... 415.2 Gallons per worker per day (workers/acre)
 4) Commercial & Industrial Water Use Coefficient..... 0.4651 Gallons per worker per day (workers/acre)

Note: Coefficient for 1940's population approximately 525,000 persons.
 [1] Forecasted water use is based on current population and water use patterns being reported by the county water company. See Part 2 of this report.
 [2] Forecasted water supply is based on existing water use.
 [3] Water demand includes office supplies water, food processing, residential, commercial and manufacturing uses.
 Source: Department of Agriculture-Socioeconomic Projections, Bureau of Economic Analysis-MWRP Projections-DEIR, Employment Forecast, NTWRP

Elko County Water Withdrawal Forecasts

Part 2-Estimated M&I Land Public & Self-Supplied Domestic Water Use (Acre-Foot)

Years Actual Forecasts 1988-2015	Forecasted Population on Public Water Systems [1]	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [3]	Forecasted Population on Public Water Systems [4]	Forecasted Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [3]	Forecasted Municipal & Industrial Water Use [4, 5]
1980	6,005	3,364	961	-	-	-	-	-
1981	7,394	4,111	105	-	-	-	-	-
1982	38,215	4,959	271	-	-	-	-	-
1983	10,073	5,173	135	-	-	-	-	-
1984	10,073	5,417	142	-	-	-	-	-
1985	20,845	5,541	167	-	-	-	-	-
1986	21,750	5,626	195	-	-	-	-	-
1987	22,004	5,146	190	-	-	-	-	-
1988	23,191	5,831	144	-	-	-	-	-
1989	25,887	6,030	203	-	-	-	-	-
1990	31,476	6,411	225	-	-	-	-	-
1991	31,529	6,067	260	-	-	-	-	-
1992	31,900	6,267	315	-	-	-	-	-
1993	36,091	6,050	346	-	-	-	-	-
1994	38,452	6,435	378	-	-	-	-	-
1995	40,151	6,858	397	40,151	93.27%	10,484	707	14,920
1996	42,357	7,140	426	42,365	93.20%	11,513	747	13,817
1997	44,497	7,566	461	44,517	93.15%	12,072	798	16,541
1998	45,974	7,905	485	45,991	93.54%	12,412	797	17,105
1999	46,969	7,754	497	46,985	93.56%	12,755	816	17,465
2000	49,386	7,567	546	49,406	93.58%	13,582	834	17,922
2001	49,385	7,392	575	49,439	93.41%	13,415	852	18,373
2002	50,566	7,713	605	50,654	93.45%	13,716	859	18,814
2003	51,724	7,925	611	51,827	93.45%	14,051	866	19,248
2004	52,836	7,733	631	52,915	93.48%	14,366	900	19,674
2005	53,961	7,637	640	54,027	93.50%	14,669	919	20,088
2006	55,015	7,493	660	55,166	93.52%	14,965	932	20,492
2007	56,074	7,296	687	56,214	93.54%	15,252	944	20,897
2008	57,079	7,078	1,025	57,265	93.50%	15,529	960	21,261
2009	58,045	6,740	1,022	58,247	93.56%	15,205	973	21,624
2010	58,068	6,590	1,028	58,183	93.62%	15,051	984	21,972
2011	59,243	6,228	1,034	59,282	93.64%	15,290	995	22,303
2012	60,477	6,434	1,038	60,543	93.65%	15,524	1,015	22,617
2013	61,474	6,666	1,069	61,535	93.65%	15,741	1,015	22,911
2014	62,297	6,269	1,097	62,481	93.71%	15,943	1,023	23,190
2015	62,869	7,018	1,107	63,184	93.70%	17,134	1,030	23,471
2016	63,493	7,217	1,116	63,825	93.76%	17,308	1,036	23,684
2017	64,056	7,370	1,128	64,469	93.78%	17,465	1,042	23,809
2018	64,562	7,503	1,137	64,933	93.80%	17,609	1,046	24,002
2019	65,068	7,628	1,144	65,399	93.83%	17,751	1,049	24,263
2020	65,581	7,751	1,151	65,861	93.85%	17,884	1,051	24,510

Assumptions:

- M&I Domestic Use (Public Supplied) = 391.0 gal/acre per parcel per day - public supply
- [Public Supplied Water Use Coefficient] = 0.3714 gal/acre per parcel per year
- Domestic Water Use per Person - Self-Supplied Water = 251.7 gal/acre per parcel per day - self supply
- [Self-Supplied Water Use Coefficient] = 0.3074 acre-feet per person per year
- 93.50% Estimated Resident Population on Public Supply

Note: Domestic Use (251.7 gal/acre per parcel per day) is based on 120,000 gallons per day.

[1] Estimated based on the level of residential parcel of total residential population on public supplied water systems.

[2] Estimated based on the level of residential parcel of total residential population on public supplied water systems (excluding 2005 through 2012).

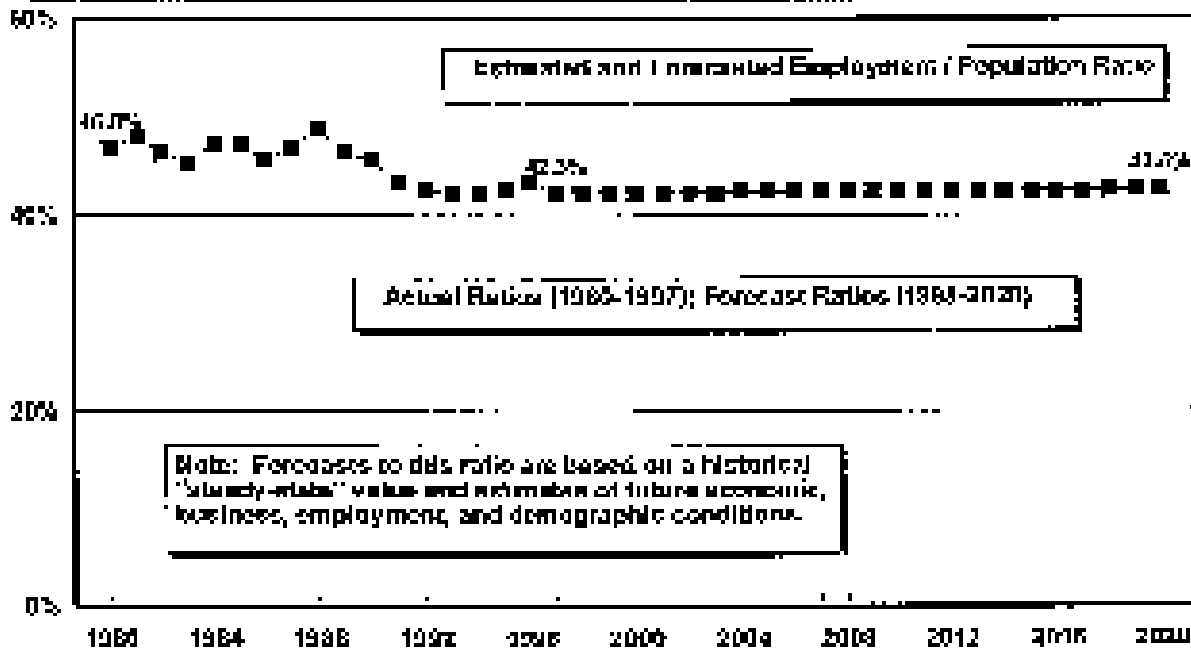
[3] M&I water use includes public supplied water on domestic (residential), commercial, industrial and other non-agricultural uses.

Source: Population, census data - U.S. Department of Commerce, Bureau of Economic Analysis; M&I, Employment - Bureau of Economic Analysis

Nevada Socioeconomic Analysis and Forecasts

Elko County Employment-to-Population Ratios

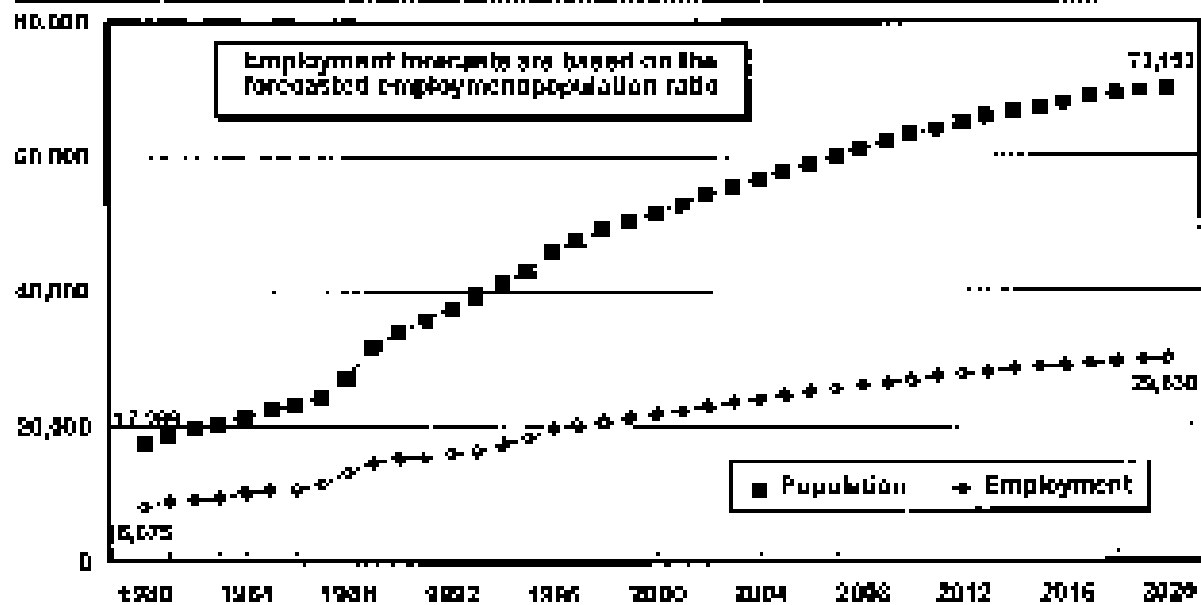
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographer, DETR.

Elko County Population & Employment Forecasts

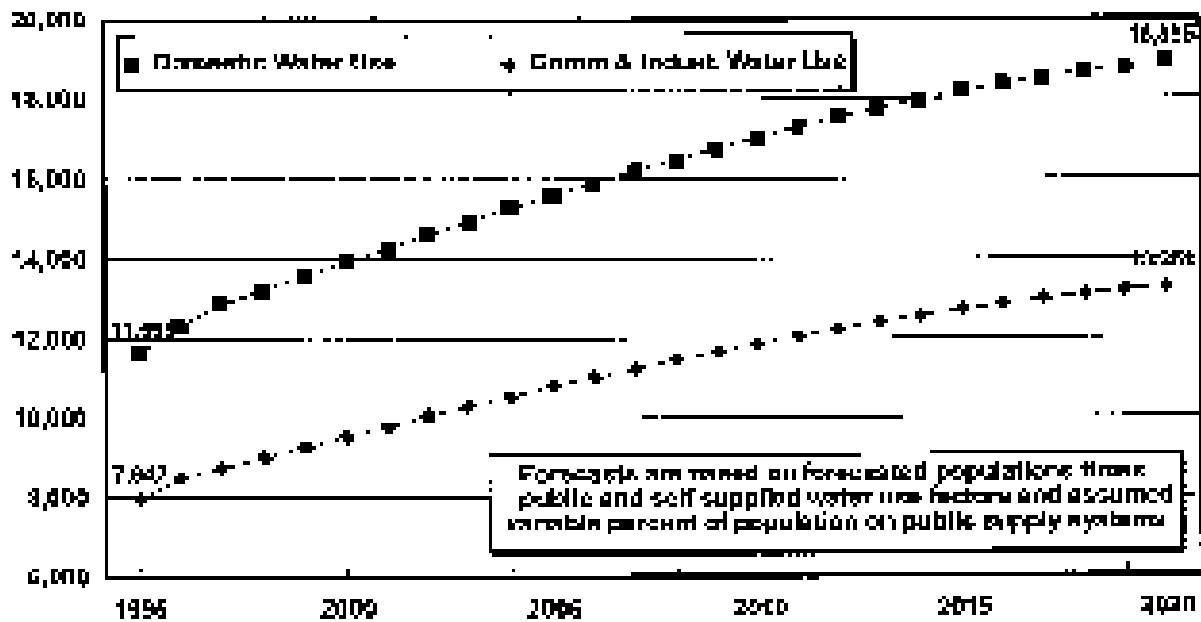
Total Population (Persons) and Total Covered Employment (Workers)



Source Data: Nevada State Demographer, DETR.

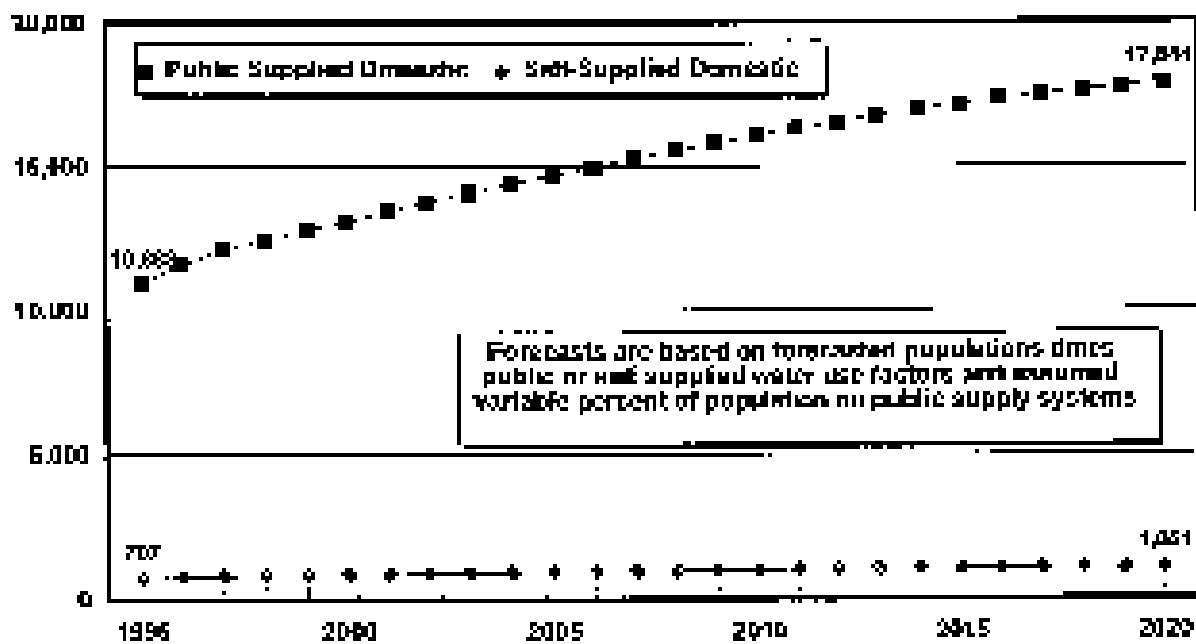
Nevada Water Use Analysis and Forecasts-1

Elko County Water Withdrawal Forecasts Domestic (Residential) and Commercial & Industrial Water Use (AF) [Variable]



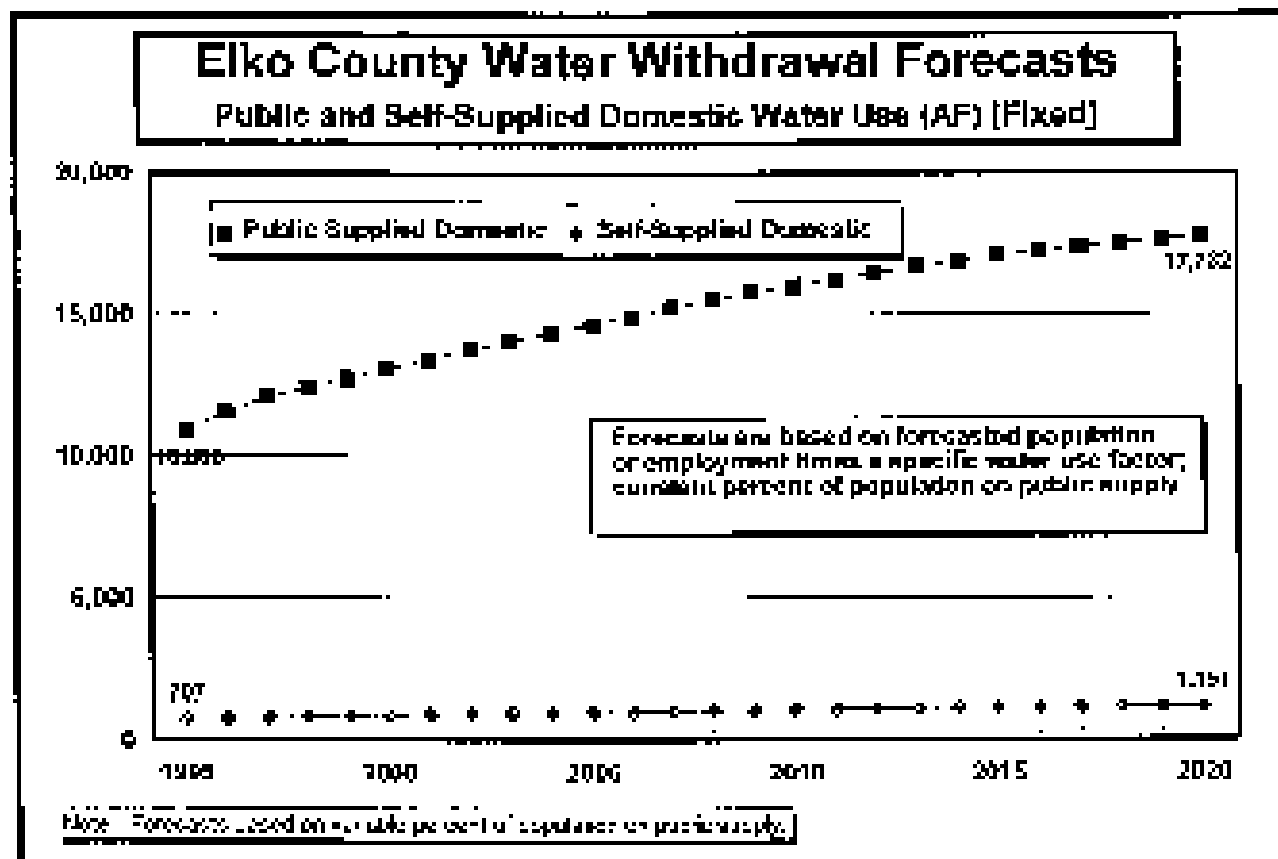
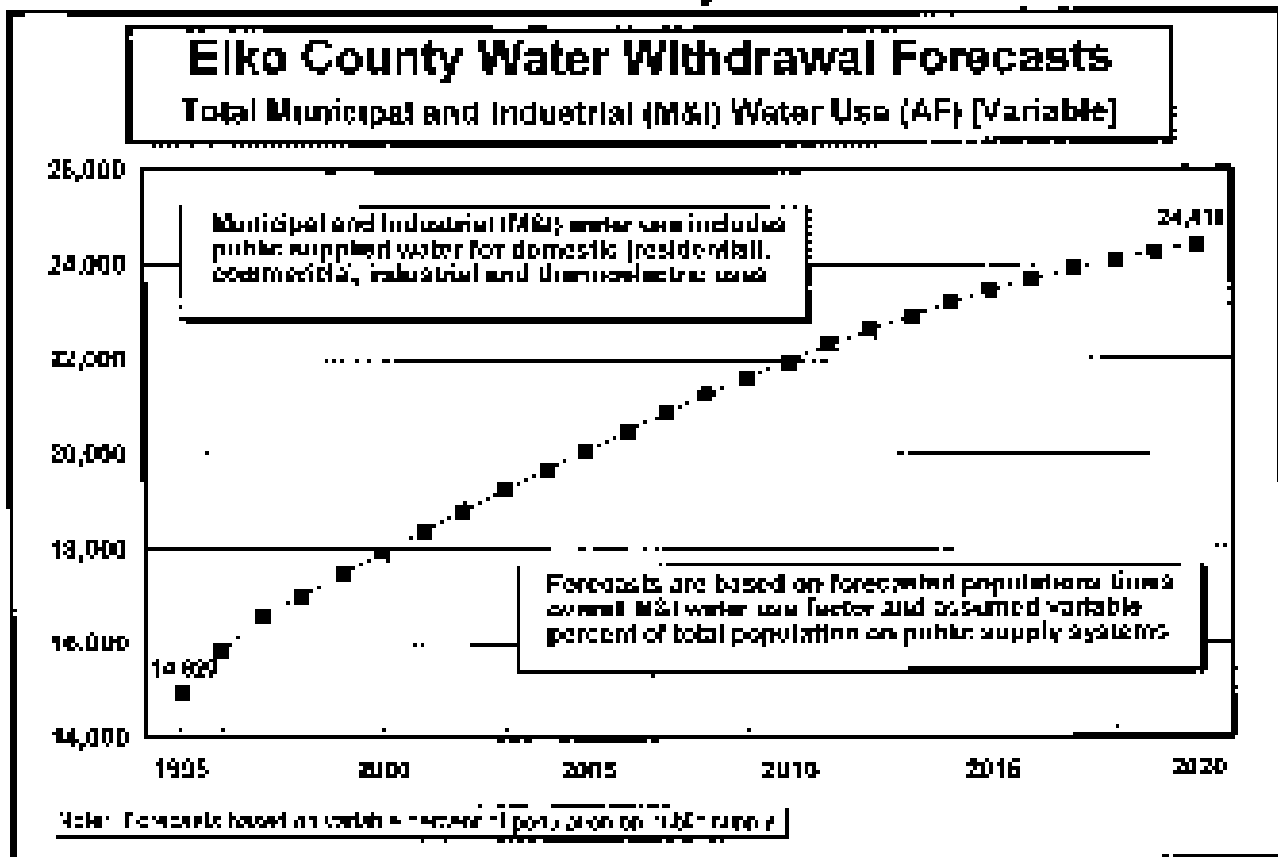
Note: Forecasts based on total percent of population on public supply.

Elko County Water Withdrawal Forecasts Public and Self-Supplied Domestic (Residential) Water Use (AF) [Variable]



Note: Forecasts based on total percent of population on public supply.

Nevada Water Use Analysis and Forecasts-2



Emerald County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Foot)

Year: Actual Forecasts 1988-2010	Estimated Residential Population	Estimated Total Covered Employment	Estimated Population Ratio	Estimated Mining Employment	Share of Total Covered Employment	Forecasted Total Population (Acres-Foot)	Forecasted Commercial and Industrial Water Use (AF)	Forecasted Total Water Use (AF)	Forecasted Municipal & Industrial Water Use (AF)
1980	777	248	31.06%	191	40.47%	111	40	149	149
1981	1,196	367	31.06%	179	43.85%	217	40	247	247
1982	1,320	460	34.84%	235	51.52%	279	40	347	347
1983	1,450	420	27.04%	196	43.92%	279	40	319	319
1984	1,610	473	28.15%	274	57.82%	306	40	346	346
1985	1,340	411	27.05%	234	54.28%	285	40	325	325
1986	1,340	400	26.50%	205	50.12%	285	40	325	325
1987	1,340	376	24.33%	7	5.01%	285	40	325	325
1988	1,440	454	30.1%	226	52.47%	307	40	347	347
1989	1,350	411	30.21%	7	4.63%	298	40	338	338
1990	1,350	387	27.14%	36	37.64%	295	40	335	335
1991	1,350	400	29.4%	188	45.48%	297	40	337	337
1992	1,410	395	28.04%	165	41.95%	257	40	297	297
1993	1,220	381	28.87%	150	39.23%	240	40	280	280
1994	1,350	424	30.30%	185	41.01%	261	40	301	301
1995	1,350	222	19.36%	155	48.01%	267	40	307	307
1996	1,450	285	19.52%	127	47.01%	261	40	301	301
1997	1,460	327	22.40%	150	47.87%	266	40	306	306
1998	1,460	329	22.53%	150	47.72%	267	40	307	307
1999	1,474	370	24.77%	151	47.62%	268	40	308	308
2000	1,480	377	24.95%	151	47.82%	270	40	310	310
2001	1,487	392	25.97%	151	47.82%	271	40	311	311
2002	1,493	391	25.97%	151	47.82%	272	40	312	312
2003	1,498	394	25.91%	151	47.82%	273	40	313	313
2004	1,501	395	25.97%	151	47.82%	274	40	314	314
2005	1,507	396	25.98%	151	47.87%	275	40	315	315
2006	1,513	397	25.98%	152	44.07%	276	40	316	316
2007	1,518	398	25.98%	152	44.87%	276	40	316	316
2008	1,522	398	25.94%	152	44.07%	277	40	317	317
2009	1,526	399	25.92%	152	44.07%	278	40	318	318
2010	1,530	340	21.95%	152	44.57%	279	40	319	319
2011	1,535	310	20.19%	152	44.47%	279	40	319	319
2012	1,536	311	20.18%	152	44.47%	280	40	320	320
2013	1,539	311	20.18%	152	44.47%	281	40	321	321
2014	1,543	312	20.18%	152	44.47%	281	40	321	321
2015	1,547	312	20.18%	152	44.47%	281	40	321	321
2016	1,545	312	20.18%	152	44.47%	281	40	321	321
2017	1,547	312	20.18%	152	44.47%	282	40	322	322
2018	1,548	312	20.18%	152	44.47%	282	40	322	322
2019	1,549	312	20.18%	149	43.87%	282	40	322	322
2020	1,550	312	20.18%	149	43.87%	282	40	322	322

Actual Period Average (1980-1990)..... 29.02% 4.07% Standard Deviation (1980-1990)

Forecast Period Average (1991-2020)..... 23.02% 11.12% Forecast Must Exceed Period (1991-1997)

My assumptions: M&I Water (Domestic):

M&I Total Domestic Water Use per Person..... 175.2 162.6 Gallons per person per day

(Excludes Commercial Water Use Contribution) 0.2669 0.1821 Acres-Foot per person per year

Commercial & Industrial Water Use per Worker..... 278.8 Gallons per worker per day (assumes 0.1476)

(Commercial & Industrial water used for mining) 0.0033 Acres-Foot per worker per year (assumes 0.1476)

Note: The above listed M&I contributions are approximate (20-25) percent.

[1] Estimated water use is based on current percent of total resident population using as public supply water source. See Part 2 reference

[2] Excludes mining employment and mining water use

[3] M&I Water use includes public supplied water for domestic, residential, commercial, industrial and farm/forestry uses

Source: Population estimates: State Demographic, Employment Forecasts: NBER, Employment-0718, Employment-0804/09

Esmeralda County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year Actual 1944-1972 Forecast 1973-2020	Forecasted Population on Public Water Systems (1)	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self Supplied Domestic Water Use (2)	Forecasted Population on Public Water Systems (2)	Forecasted Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use (3)	Forecasted self supplied Domestic Water Use (3)	Forecasted Municipal & Industrial M&I Water Use (3)(4)
1944	0	0	40	-	-	-	-	-
1945	0	0	61	-	-	-	-	-
1946	918	172	68	-	-	-	-	-
1947	1,029	193	76	-	-	-	-	-
1948	1,168	219	87	-	-	-	-	-
1949	1,290	241	99	-	-	-	-	-
1950	1,400	261	107	-	-	-	-	-
1951	1,500	281	117	-	-	-	-	-
1952	1,601	303	127	-	-	-	-	-
1953	1,703	328	138	-	-	-	-	-
1954	1,806	354	150	-	-	-	-	-
1955	1,910	381	163	-	-	-	-	-
1956	2,015	409	177	-	-	-	-	-
1957	2,121	438	191	-	-	-	-	-
1958	2,228	468	206	-	-	-	-	-
1959	2,336	499	221	-	-	-	-	-
1960	2,445	531	237	-	-	-	-	-
1961	2,554	564	254	-	-	-	-	-
1962	2,664	598	271	-	-	-	-	-
1963	2,774	633	289	-	-	-	-	-
1964	2,884	669	307	-	-	-	-	-
1965	2,994	706	326	-	-	-	-	-
1966	3,104	744	345	-	-	-	-	-
1967	3,214	783	365	-	-	-	-	-
1968	3,324	823	385	-	-	-	-	-
1969	3,434	864	406	-	-	-	-	-
1970	3,544	906	427	-	-	-	-	-
1971	3,654	949	449	-	-	-	-	-
1972	3,764	993	471	-	-	-	-	-
1973	3,874	1,038	494	1,132	95.51%	215	84	102
1974	3,984	1,084	517	1,268	95.25%	183	77	117
1975	4,094	1,131	541	1,413	95.24%	191	75	131
1976	4,204	1,179	565	1,565	97.52%	192	75	147
1977	4,314	1,227	590	1,725	97.53%	193	76	163
1978	4,424	1,276	615	1,890	97.64%	194	76	180
1979	4,534	1,326	641	2,060	97.67%	195	77	197
1980	4,644	1,376	667	2,235	97.67%	197	77	215
1981	4,754	1,427	694	2,415	97.70%	198	77	233
1982	4,864	1,479	721	2,600	97.72%	199	77	252
1983	4,974	1,531	749	2,790	97.74%	199	77	271
1984	5,084	1,584	777	2,985	97.74%	200	77	291
1985	5,194	1,637	806	3,185	97.75%	200	77	311
1986	5,304	1,691	835	3,390	97.75%	201	77	331
1987	5,414	1,746	865	3,600	97.75%	201	77	351
1988	5,524	1,801	895	3,815	97.75%	202	77	371
1989	5,634	1,857	925	4,035	97.75%	202	77	391
1990	5,744	1,914	956	4,260	97.75%	202	77	411
1991	5,854	1,972	987	4,490	97.75%	202	77	431
1992	5,964	2,031	1,018	4,725	97.75%	202	77	451
1993	6,074	2,091	1,049	4,965	97.75%	202	77	471
1994	6,184	2,152	1,081	5,210	97.75%	202	77	491
1995	6,294	2,214	1,113	5,460	97.75%	202	77	511
1996	6,404	2,277	1,146	5,715	97.75%	202	77	531
1997	6,514	2,341	1,179	5,975	97.75%	202	77	551
1998	6,624	2,406	1,213	6,240	97.75%	202	77	571
1999	6,734	2,472	1,247	6,510	97.75%	202	77	591
2000	6,844	2,539	1,281	6,785	97.75%	202	77	611
2001	6,954	2,607	1,316	7,065	97.75%	202	77	631
2002	7,064	2,676	1,351	7,350	97.75%	202	77	651
2003	7,174	2,746	1,387	7,640	97.75%	202	77	671
2004	7,284	2,817	1,423	7,935	97.75%	202	77	691
2005	7,394	2,889	1,460	8,235	97.75%	202	77	711
2006	7,504	2,962	1,497	8,540	97.75%	202	77	731
2007	7,614	3,036	1,535	8,850	97.75%	202	77	751
2008	7,724	3,111	1,573	9,165	97.75%	202	77	771
2009	7,834	3,187	1,611	9,485	97.75%	202	77	791
2010	7,944	3,264	1,650	9,810	97.75%	202	77	811
2011	8,054	3,342	1,689	10,140	97.75%	202	77	831
2012	8,164	3,421	1,729	10,475	97.75%	202	77	851
2013	8,274	3,501	1,769	10,815	97.75%	202	77	871
2014	8,384	3,582	1,810	11,160	97.75%	202	77	891
2015	8,494	3,664	1,851	11,510	97.75%	202	77	911
2016	8,604	3,747	1,893	11,865	97.75%	202	77	931
2017	8,714	3,831	1,936	12,225	97.75%	202	77	951
2018	8,824	3,916	1,979	12,590	97.75%	202	77	971
2019	8,934	4,002	2,023	12,960	97.75%	202	77	991
2020	9,044	4,089	2,067	13,335	97.75%	202	77	1,011

Aggregates: M&I Water Demand only

M&I Domestic Use (Person Public Supplied) 238.7 16.7% (Person per acre-ft. supply) (M&I SUPPLY)

Public Supplied Water Water Use Coefficient 0.0874 (Acres-ft. per acre-ft. supply)

Domestic Water Use per Person - self-supplied Water 150.9 (Gallons per person per day - self supply)

self-supplied water Use Coefficient 0.1570 (Acres-ft. per acre-ft. supply)

1985 Estimated Resident Population with Public Supply 69,575 (Persons in estimated population)

Note: Domestic Use (M&I) is equivalent to population (1985-2020) values

(1) Estimated population on public supplied water is based on the 1985 population on public supplied water (1985) and the estimated population on public supplied water for the year 1990 through 2020.

(2) Estimated forecast is based on a variable percent of population for population on public supplied water systems for the year 1990 through 2020.

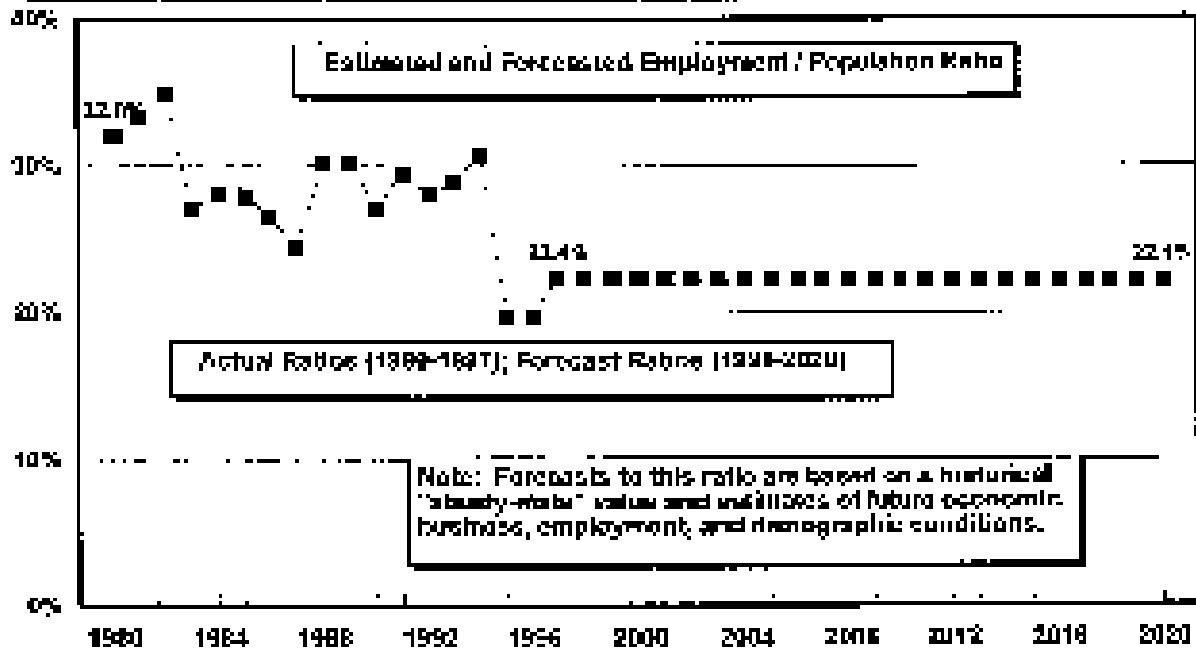
(3) M&I water use includes public supplied water for industries and agriculture.

(4) Source: Population estimates - State Employment, Population Forecast - NCEM; Employment - NCEM; Employment Forecast - NCEM.

Nevada Socioeconomic Analysis and Forecasts

Esmeralda County Employment-to-Population Ratios

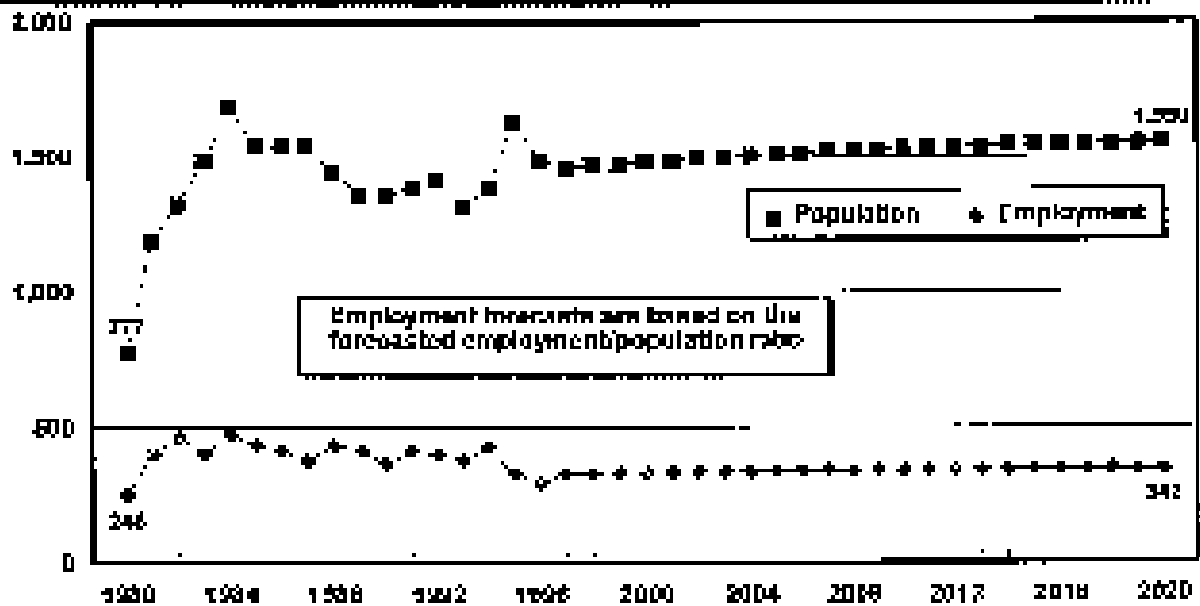
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographer, Dec 11.

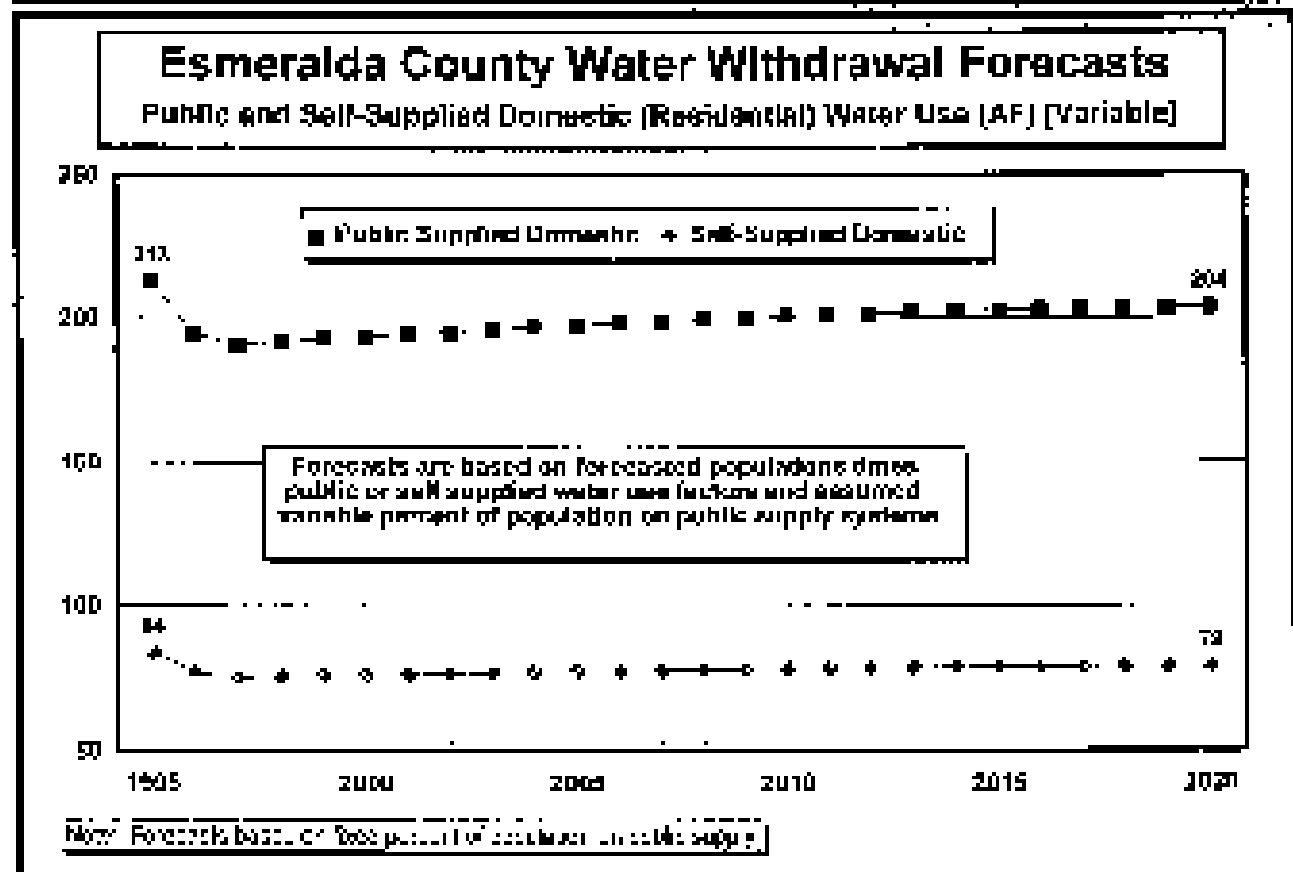
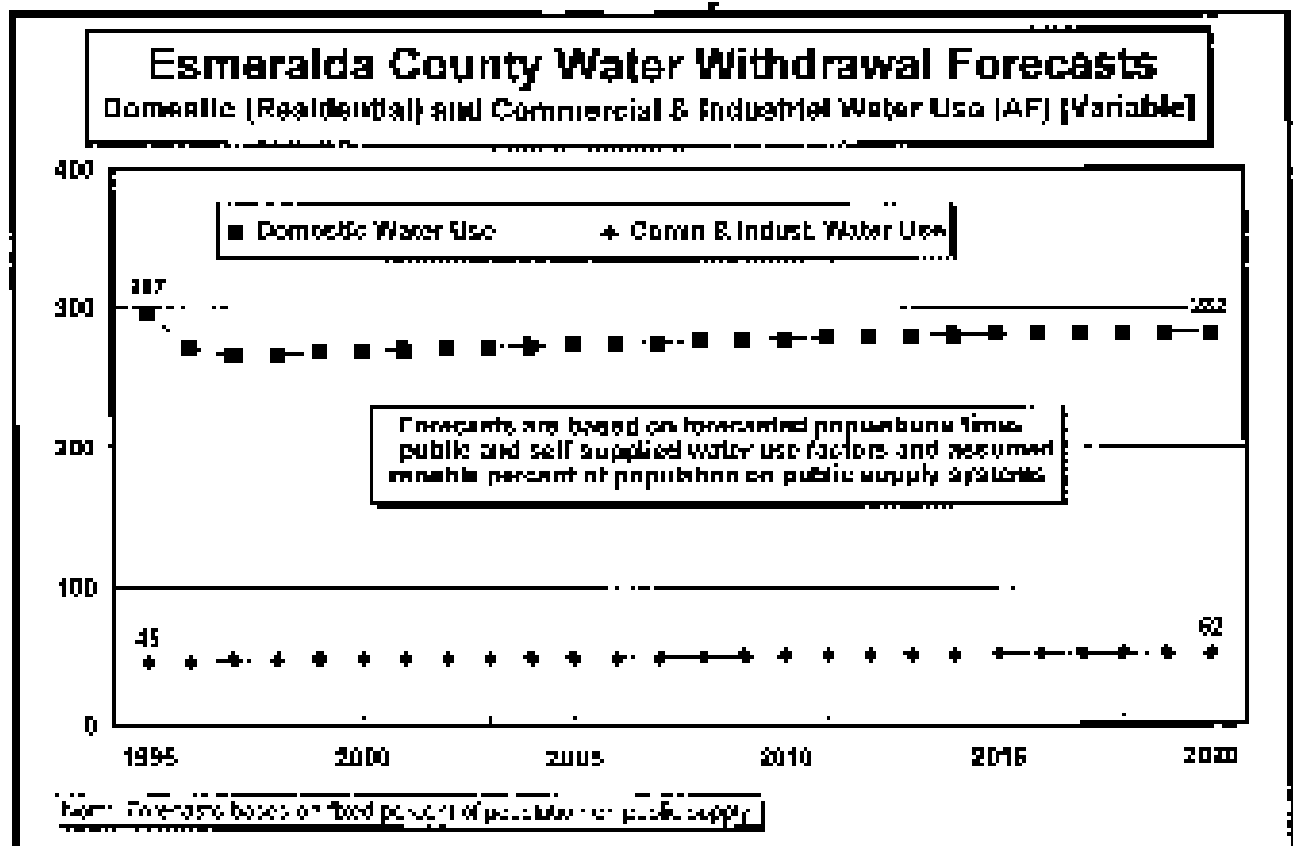
Esmeralda County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

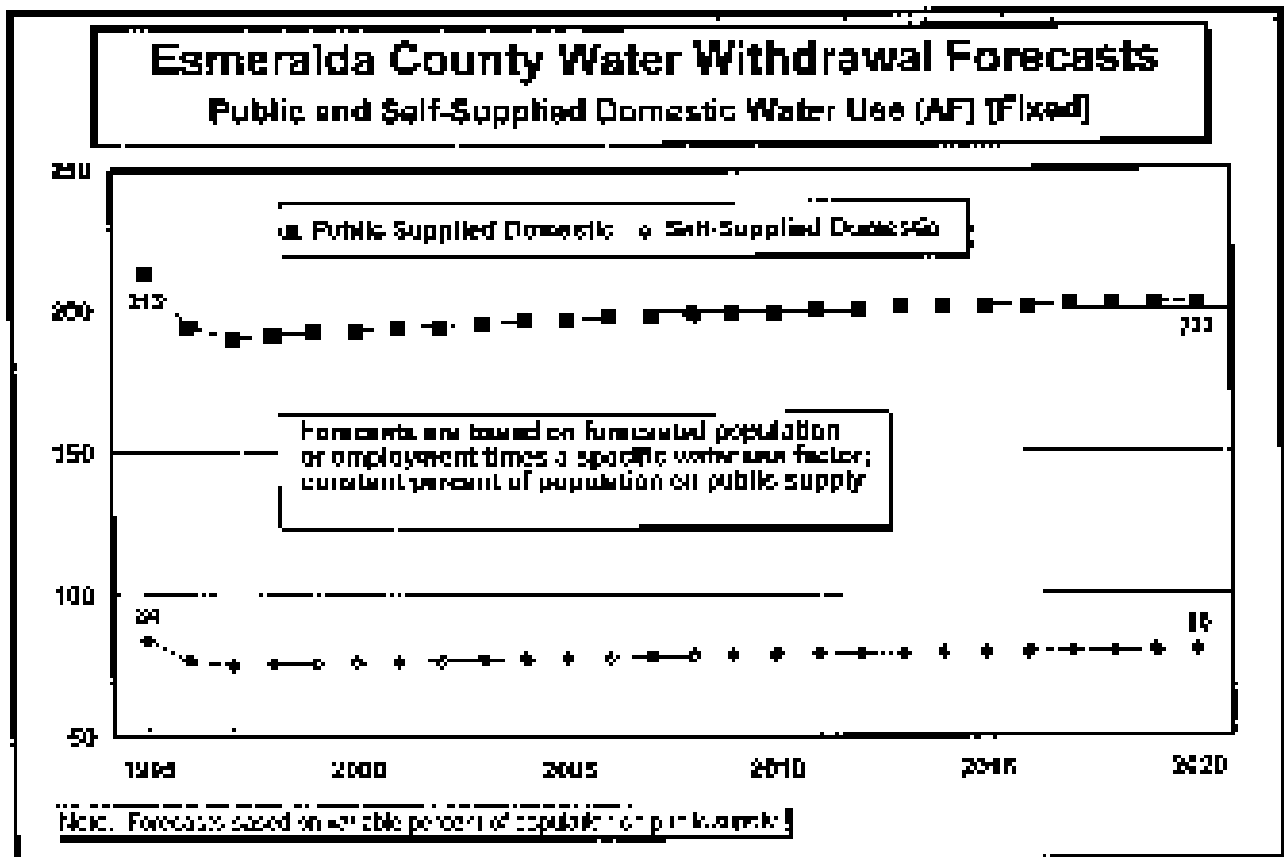
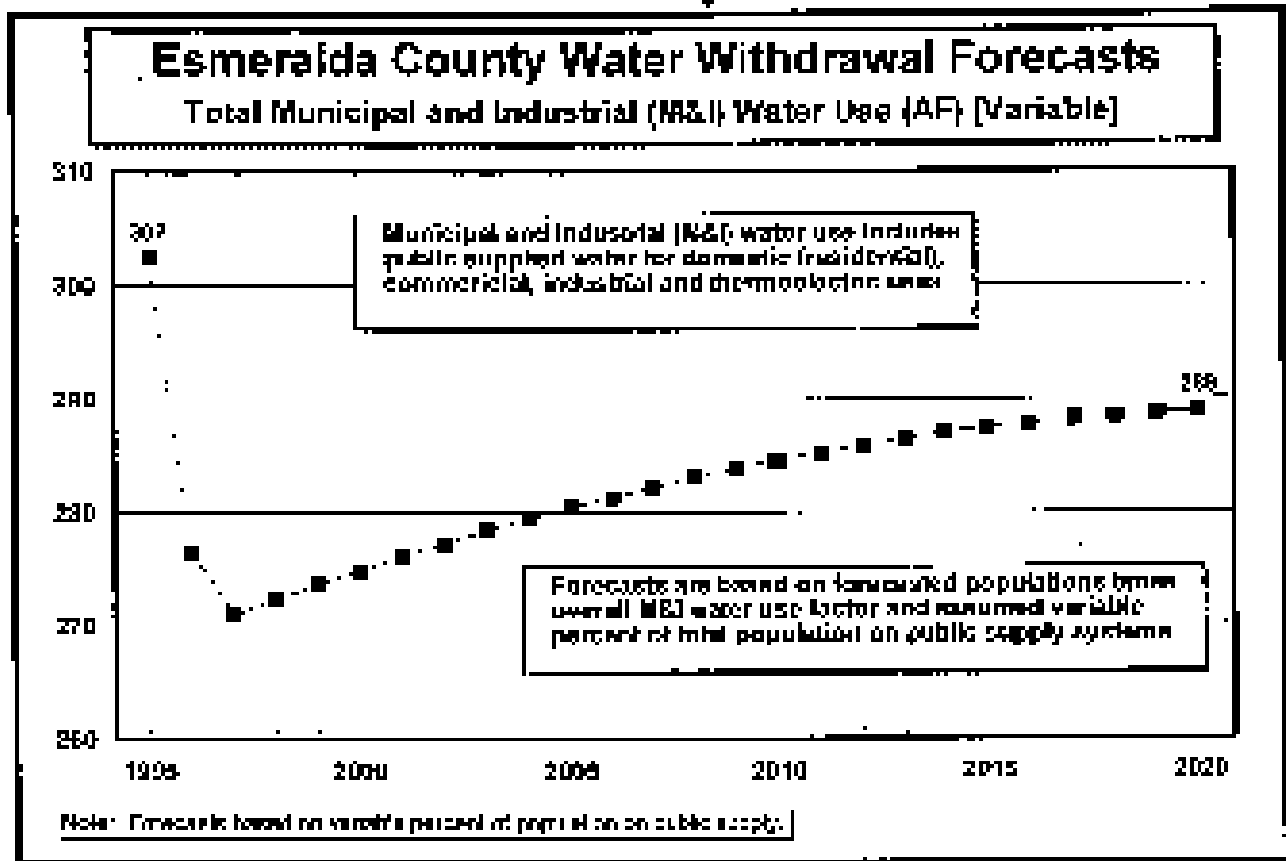


Source Data: Nevada State Demographer, 11/11

Nevada Water Use Analysis and Forecasts-I



Nevada Water Use Analysis and Forecasts-2



Eureka County Water Withdrawal Forecasts

Part I-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Foot)

Year	Estimated and Forecasted Municipal Population	Estimated and Forecasted Total Licensed Employment	Estimated and Forecasted Population Ratio	Estimated and Forecasted Males Employment	Share of Total Licensed Employment	Forecasted Total Domestic Residential Water Use [1]	Forecasted Total Commercial and Industrial Water Use [2]	Forecasted Municipal & Industrial M&I Water Use [1+2]
1980	1,149	619	47.86%	351	55.57%	322	29	351
1981	1,170	618	50.28%	308	62.87%	326	25	351
1982	1,190	596	45.88%	347	58.05%	328	23	351
1983	1,210	581	48.01%	339	58.34%	331	20	351
1984	1,230	572	46.50%	335	58.57%	335	21	356
1985	1,250	1,111	73.68%	616	52.94%	339	19	358
1986	1,270	1,106	83.93%	702	61.95%	328	30	358
1987	1,289	1,156	89.67%	1,139	67.56%	421	37	458
1988	1,311	1,161	91.60%	1,159	67.12%	426	32	458
1989	1,331	1,181	92.52%	1,179	68.28%	431	27	458
1990	1,351	1,226	91.12%	1,249	69.51%	437	21	458
1991	1,371	1,271	92.00%	1,279	69.94%	442	16	458
1992	1,391	1,316	94.60%	1,319	70.38%	447	11	458
1993	1,411	1,361	96.46%	1,359	70.82%	452	6	458
1994	1,431	1,406	98.25%	1,399	71.26%	457	1	458
1995	1,451	1,451	100.00%	1,451	71.70%	462	0	462
1996	1,471	1,496	101.70%	1,496	72.14%	467	0	467
1997	1,491	1,541	103.35%	1,541	72.58%	472	0	472
1998	1,511	1,586	104.96%	1,586	73.02%	477	0	477
1999	1,531	1,631	106.57%	1,631	73.46%	482	0	482
2000	1,551	1,676	108.18%	1,676	73.90%	487	0	487
2001	1,571	1,721	109.79%	1,721	74.34%	492	0	492
2002	1,591	1,766	111.40%	1,766	74.78%	497	0	497
2003	1,611	1,811	112.42%	1,811	75.22%	502	0	502
2004	1,631	1,856	113.83%	1,856	75.66%	507	0	507
2005	1,651	1,901	115.15%	1,901	76.10%	512	0	512
2006	1,671	1,946	116.47%	1,946	76.54%	517	0	517
2007	1,691	1,991	117.79%	1,991	76.98%	522	0	522
2008	1,711	2,036	118.71%	2,036	77.42%	527	0	527
2009	1,731	2,081	119.63%	2,081	77.86%	532	0	532
2010	1,751	2,126	120.55%	2,126	78.30%	537	0	537
2011	1,771	2,171	121.47%	2,171	78.74%	542	0	542
2012	1,791	2,216	122.39%	2,216	79.18%	547	0	547
2013	1,811	2,261	123.31%	2,261	79.62%	552	0	552
2014	1,831	2,306	124.23%	2,306	80.06%	557	0	557
2015	1,851	2,351	125.15%	2,351	80.50%	562	0	562
2016	1,871	2,396	126.07%	2,396	80.94%	567	0	567
2017	1,891	2,441	126.99%	2,441	81.38%	572	0	572
2018	1,911	2,486	127.91%	2,486	81.82%	577	0	577
2019	1,931	2,531	128.83%	2,531	82.26%	582	0	582
2020	1,951	2,576	129.75%	2,576	82.70%	587	0	587

Annual Period Average (1980-1997): 175,725 105.90% Standard Deviation (1980-1997)
 Decade Period Average (1980-2020): 291,165 248.71% Decadal Rate Change (1980-2020)

Assumptions:
 M&I Use: Domestic Water Use per Person = 322.9 Gallons per person per day
 (M&I Use: Domestic Water Use Coefficient)
 Commercial & Industrial Water Use per 100 Employees = 35.7 Gallons per employee per day (excluding mining)
 (Commercial & Industrial Water Use Coefficient)
 Note: Coefficients (M&I) are based on population 301,000 gpd/day
 [1] Estimated water use based on current population and forecasted population. See Part II of this report.
 [2] Predicted water use based on forecasted population and forecasted employment. See Part II of this report.

M&I water use is estimated based on forecasted population, forecasted employment, and forecasted water use per person and per employee. See Part II of this report.
 Source: American Demographics; Population, Economic, and Employment Outlook; U.S. Census Bureau; M&I.

Honolulu County Water Withdrawal Forecasts

Part 2-Enhanced M&I and Public & Self-Supplied Domestic Water Use (Acre-Foot)

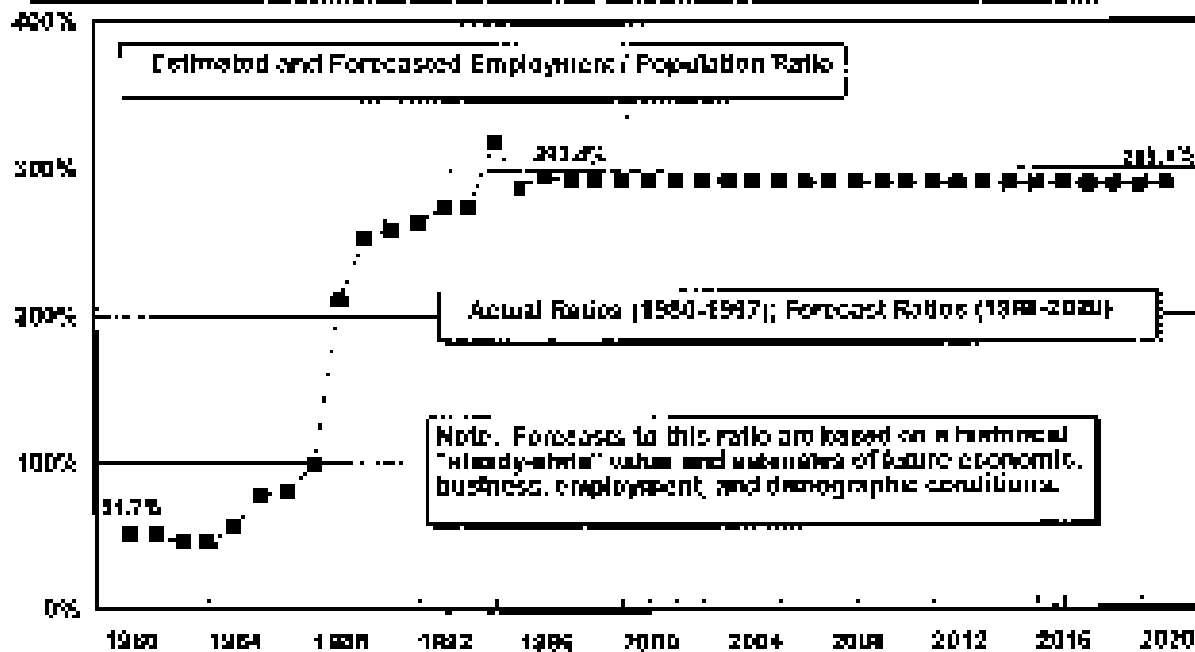
Year: Actual Forecast 1984-2011	Forecasted Population Public Water Volume (1)	Forecasted		Forecasted Population on Public Water Square (2)	Variable Percent of Public Supply	Forecasted		Forecasted Municipal & Industrial Water Use (3)
		Public Supplied Domestic Water Use (1)	Forecasted Self Supplied Domestic Water Use (2)			Public supplied Domestic Water Use (2)	Forecasted Self Supplied Domestic Water Use (2)	
1980	872	964	78	-	-	-	-	-
1981	909	75	77	-	-	-	-	-
1982	939	25	77	-	-	-	-	-
1983	976	251	78	-	-	-	-	-
1984	970	279	30	-	-	-	-	-
1985	963	267	32	-	-	-	-	-
1986	99	27	27	-	-	-	-	-
1987	1,219	300	35	-	-	-	-	-
1988	1,225	310	36	-	-	-	-	-
1989	1,240	315	37	-	-	-	-	-
1990	1,278	319	38	-	-	-	-	-
1991	1,187	321	39	-	-	-	-	-
1992	1,171	325	40	-	-	-	-	-
1993	1,229	329	39	-	-	-	-	-
1994	1,151	319	38	-	-	-	-	-
1995	1,177	325	39	1,177	74.49%	325	100	296
1996	1,229	329	40	1,229	74.31%	329	102	295
1997	1,217	341	40	1,217	74.55%	341	125	417
1998	1,366	349	40	1,366	74.55%	349	137	438
1999	1,245	348	40	1,245	74.57%	348	110	420
2000	1,331	367	42	1,331	74.59%	366	119	470
2001	1,372	373	43	1,372	74.61%	373	121	480
2002	1,379	381	43	1,379	74.62%	381	119	490
2003	1,405	388	43	1,405	74.64%	388	119	508
2004	1,436	395	43	1,436	74.66%	395	121	514
2005	1,453	401	43	1,453	74.68%	402	123	520
2006	1,478	408	43	1,478	74.70%	409	125	536
2007	1,510	417	43	1,510	74.72%	419	125	544
2008	1,521	420	43	1,521	74.74%	421	126	551
2009	1,541	425	43	1,541	74.75%	423	126	559
2010	1,539	430	43	1,539	74.77%	432	127	566
2011	1,576	435	43	1,576	74.79%	437	127	574
2012	1,592	439	43	1,592	74.81%	441	128	576
2013	1,606	443	43	1,614	74.82%	443	128	583
2014	1,619	449	43	1,627	74.83%	449	128	588
2015	1,631	452	43	1,635	74.83%	451	129	592
2016	1,640	455	43	1,641	74.84%	453	129	596
2017	1,649	458	43	1,656	74.84%	458	129	599
2018	1,655	457	43	1,667	74.84%	459	131	600
2019	1,660	458	43	1,670	74.84%	461	130	603
2020	1,664	459	43	1,674	74.85%	462	130	604

Assumptions: M&I Domestic Use: Public Supplied Domestic Use: 0.2219 Gallons per person per day - public supply
 Public Supplied Water Use Coefficient: 0.3616 Acre-foot per acre per year
 Domestic Water Use per Person - Self-Supplied Water: 221.5 Gallons per person per year - self supply
 (Self-supplied Water Use Coefficient) 0.2221 Acre-foot per person per year
 1981 Domestic Resident Population on Public Supply: 74,499% Percent of total resident population
 Note: One acre-foot (AF) is equivalent to approximately 325,851 gallons.
 (1) Public Supply is a total or current percent of total water population being public supplied on a system.
 (2) Forecasted population based on a 0.5% percent of the 2010 population of Honolulu on public supplied water system for the year 1996 through 2011.
 (3) M&I use includes public, private, agriculture, industry, commercial, residential and business uses.
 Source: Department of Public Works, Population Forecast, RWRF Employment-JOB, and system for 2000-2020.

Nevada Socioeconomic Analysis and Forecasts

Eureka County Employment-to-Population Ratios

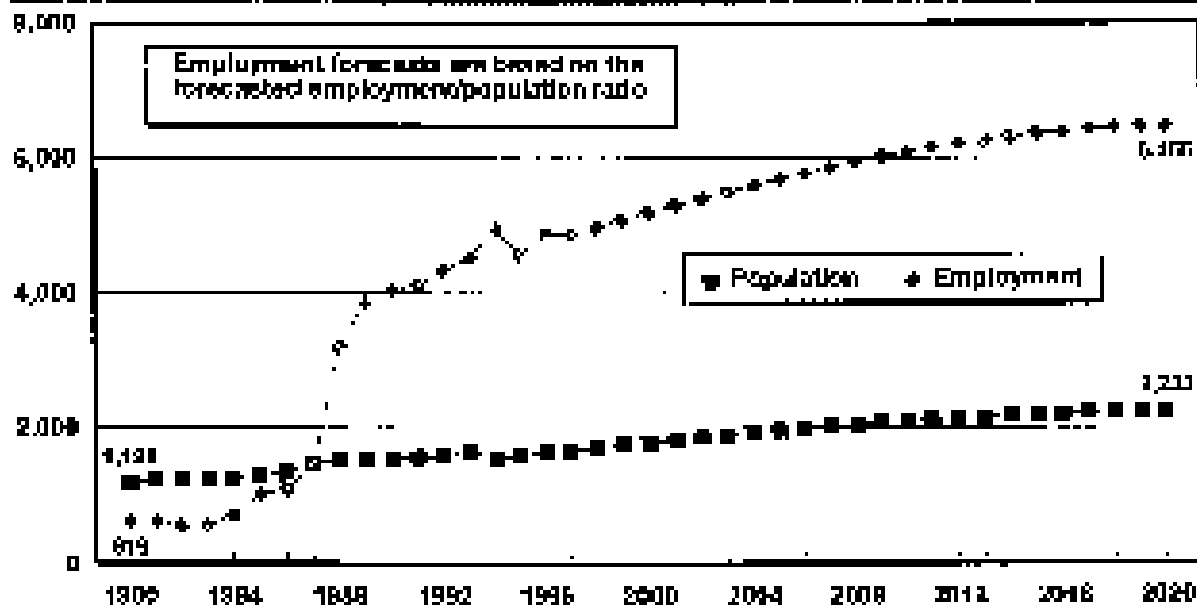
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographer, DSR, []

Eureka County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

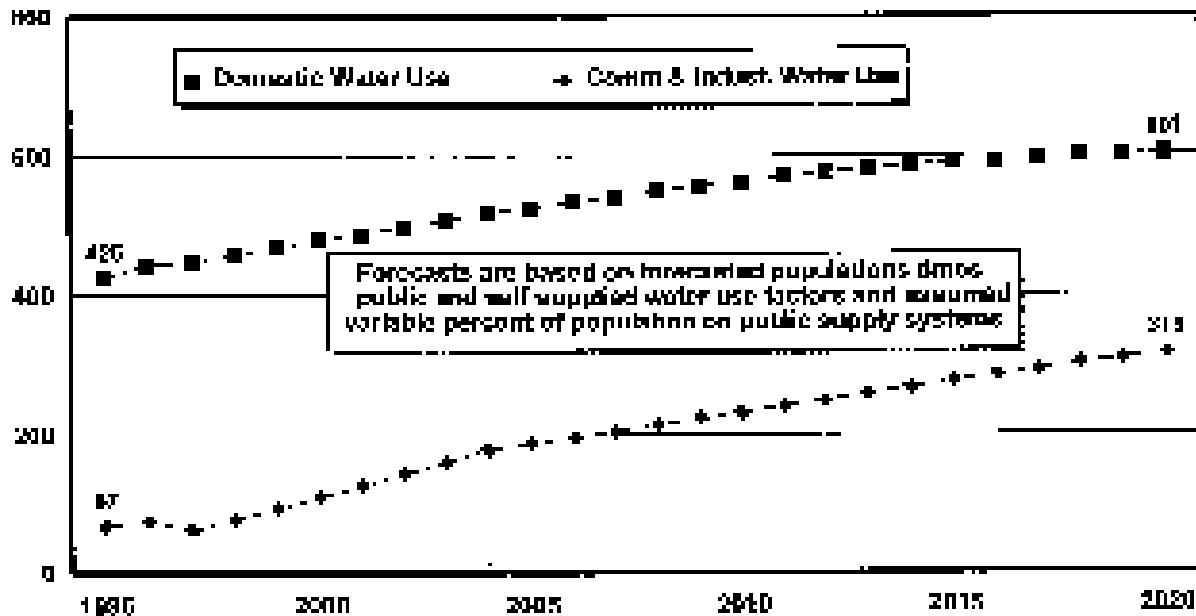


Source: Data: Nevada State Demographer, DSR, []

Nevada Water Use Analysis and Forecasts-1

Eureka County Water Withdrawal Forecasts

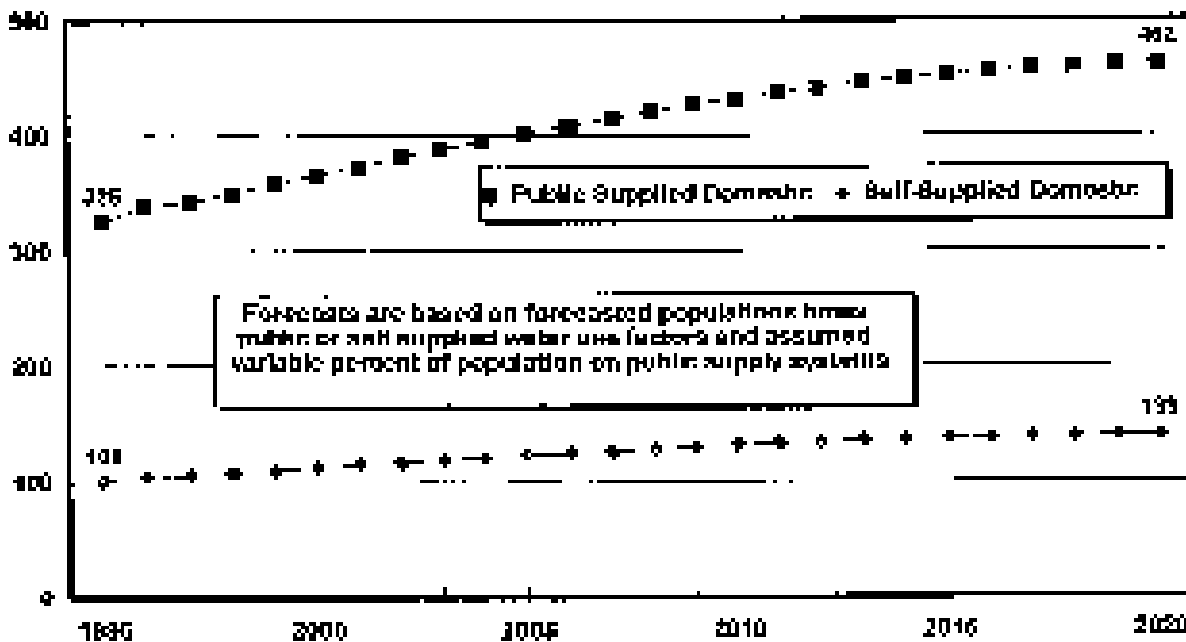
Domestic (Residential) and Commercial & Industrial Water Use (AF) [Variable]



Note: Forecasts based on total percent of population on public supply

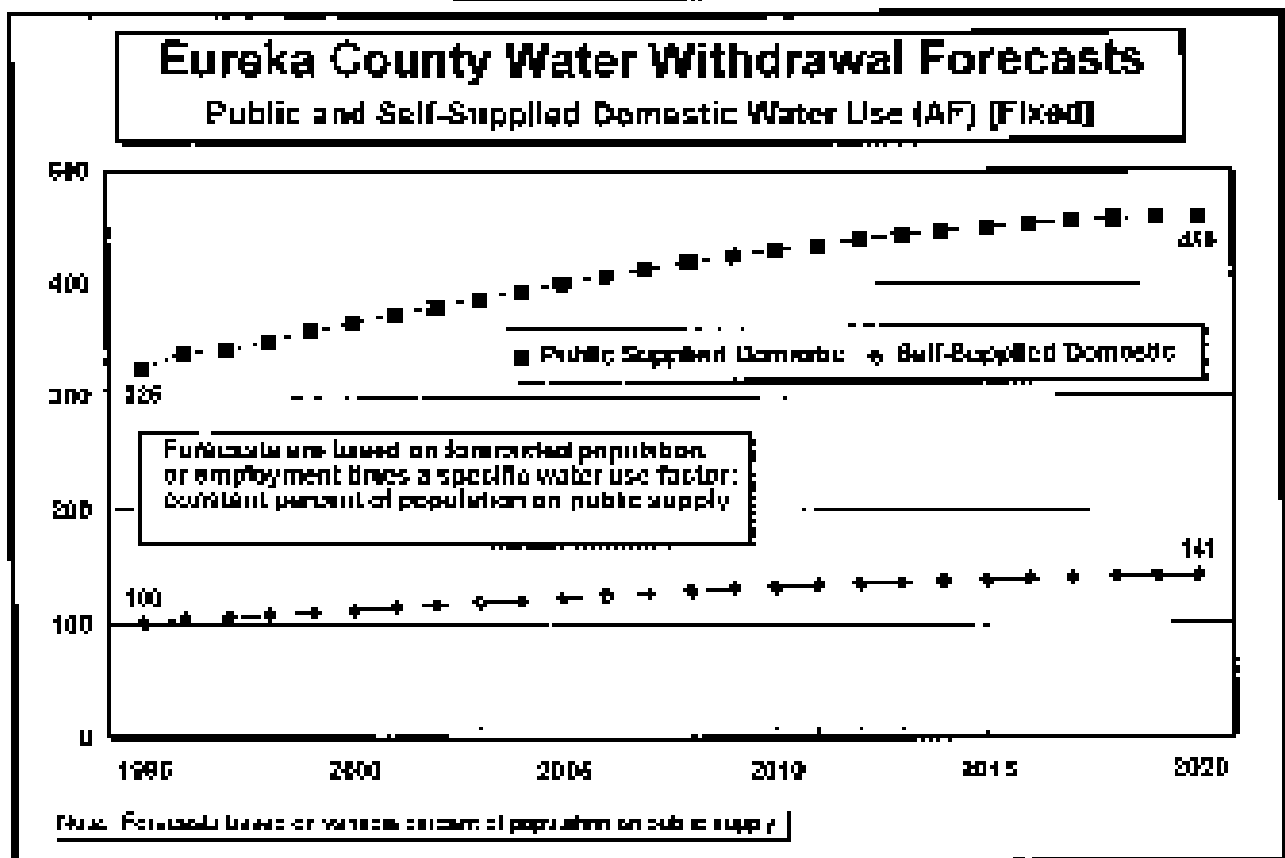
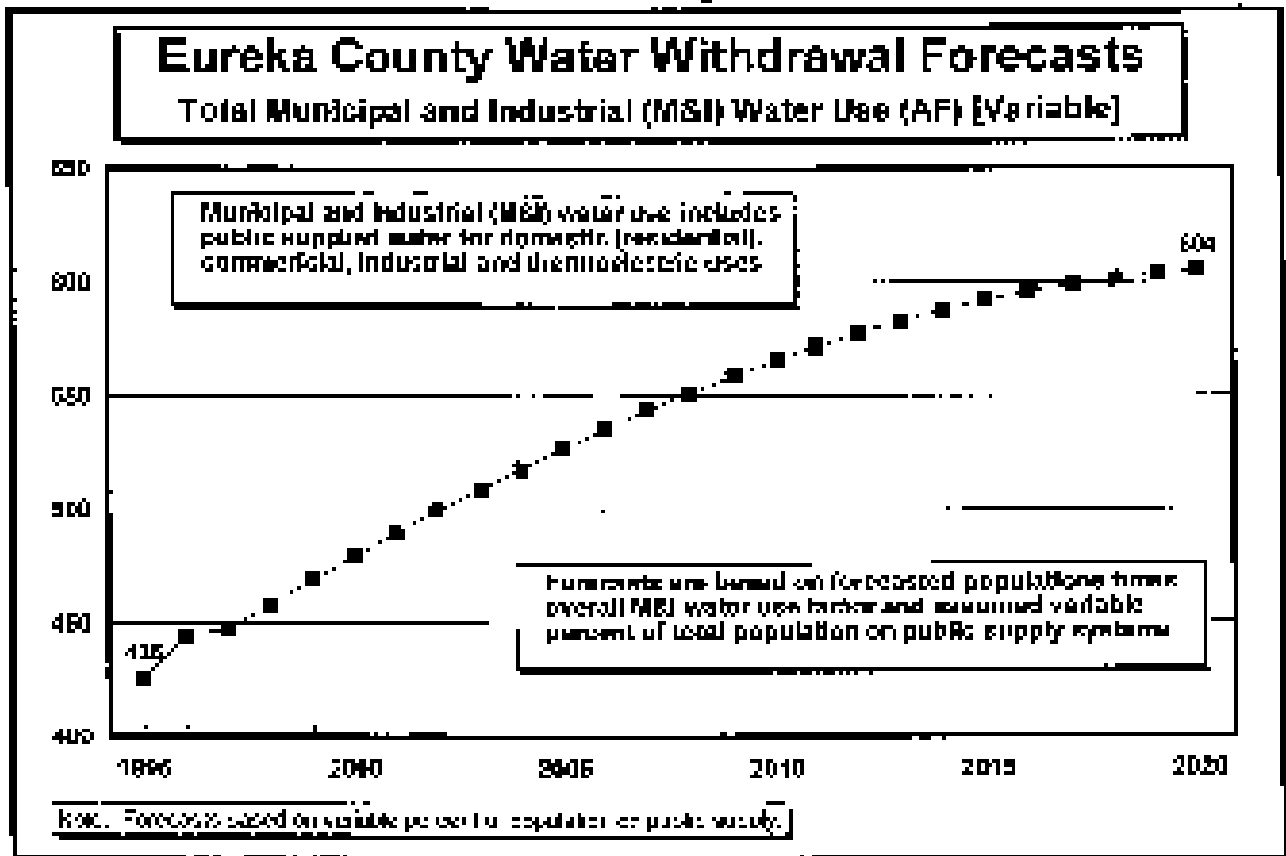
Eureka County Water Withdrawal Forecasts

Public and Self-Supplied Domestic (Residential) Water Use (AF) [Variable]



Note: Forecasts based on total percent of population on public supply

Nevada Water Use Analysis and Forecasts-2



Humboldt County Water Withdrawal Forecasts

Part I-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Foot)

Year	Actual Forecasts 1989-1997	Estimated Domestic Population	Estimated Total Covered Employment	Employment/Population Ratio	Estimated Total Covered Employment	Share of Total Covered Employment	Forecasted Total Domestic (M&I) Water Use [AF]	Forecasted Commercial and Industrial Water Use [AF]	Forecasted Municipal & Industrial Water Use [AF]
1990		9,749	7,186	73.71%	65	3.02%	2,587	1,041	2,440
1991		10,790	8,261	76.56%	100	6.45%	2,811	1,046	2,620
1992		10,920	8,961	81.97%	267	6.25%	2,569	954	2,810
1993		10,950	9,954	90.86%	281	7.55%	3,000	944	2,830
1994		11,140	11,193	100.47%	408	7.40%	3,007	934	2,810
1995		11,790	10,046	85.19%	363	3.71%	3,082	944	2,937
1996		11,790	10,054	85.31%	459	11.33%	3,071	938	2,857
1997		11,450	10,615	92.71%	708	15.77%	3,145	1,014	2,956
1998		11,950	11,399	95.40%	1,167	20.82%	3,299	1,044	3,111
1999		12,900	10,967	84.94%	1,266	20.82%	3,411	1,068	3,248
2000		13,630	11,321	83.06%	1,527	24.94%	3,504	1,072	3,361
2001		14,500	11,817	81.49%	1,751	26.40%	3,685	1,063	3,485
2002		14,600	12,410	84.99%	1,938	29.75%	3,837	1,070	3,613
2003		14,610	13,067	90.12%	2,072	29.63%	3,974	1,081	3,746
2004		15,675	13,252	84.54%	2,075	28.67%	4,280	1,337	4,048
2005		16,272	13,735	84.35%	2,305	29.67%	4,454	1,411	4,201
2006		16,612	14,293	86.04%	2,459	30.07%	4,466	1,401	4,259
2007		17,527	14,574	83.15%	2,451	29.67%	4,116	1,376	4,223
2008		17,938	14,782	82.42%	2,451	29.40%	4,023	1,333	4,045
2009		18,444	15,010	81.44%	2,448	29.17%	4,040	1,353	4,002
2010		18,857	15,235	80.32%	2,437	28.80%	4,173	1,352	4,079
2011		19,312	15,457	80.03%	2,427	28.58%	4,225	1,352	4,097
2012		19,781	15,670	79.26%	2,408	28.30%	4,315	1,375	4,107
2013		20,759	15,887	76.57%	2,387	28.15%	4,232	1,376	4,218
2014		20,627	16,109	77.62%	2,361	27.40%	4,247	1,366	4,126
2015		20,714	16,390	79.13%	2,331	27.53%	4,258	1,374	4,210
2016		20,847	16,484	79.12%	2,297	27.09%	4,167	1,374	4,232
2017		21,308	16,674	78.27%	2,258	27.15%	4,070	1,374	4,030
2018		21,744	16,856	77.52%	2,213	26.80%	4,000	1,352	4,023
2019		22,524	17,030	75.61%	2,158	26.65%	4,165	1,320	4,013
2020		23,188	17,206	74.21%	2,117	26.49%	4,117	1,347	4,001
2021		23,774	17,354	73.00%	2,051	26.17%	4,044	1,340	4,083
2022		24,479	17,502	71.50%	2,032	25.99%	4,026	1,334	4,066
2023		25,152	17,649	70.16%	1,939	26.09%	4,032	1,306	4,132
2024		24,812	17,772	71.64%	1,872	25.95%	4,003	1,307	4,189
2025		24,251	17,894	73.81%	1,802	25.15%	4,018	1,305	4,207
2026		23,568	18,003	76.40%	1,729	24.95%	4,038	1,303	4,217
2027		22,664	18,103	79.87%	1,650	24.65%	4,052	1,269	4,248
2028		21,827	18,150	83.15%	1,571	23.06%	4,090	1,242	4,242
2029		20,947	18,227	87.06%	1,491	22.36%	4,040	1,235	4,211
2030		20,114	18,303	90.99%	1,405	21.40%	4,075	1,237	4,244

Actual-Domestic Average (1989-1997) 41.07% 41.07% Standard Deviation (1989-1997)
 Actual-Domestic Average (1998-2020) 46.97% 46.97% Annualized Stable Period (1994-1997)

- Assumptions:** **M&I Water Demand Only**
- M&I Total Domestic Water Use per Person: 348AF 344AF Gallons per person per day
 - M&I Total Domestic Water Use (Constant): 11,810 102,227 Acre-feet per person per year
 - Commercial & Industrial Water Use per Worker: 279AF Gallons per worker per day (each day during)
 - M&I Commercial & Industrial Water Use (Constant): 11,746AF Acre-feet per worker per year (each day during)

Note: Domestic water use is based on the 1990 Census and is assumed to increase 1.25% annually.
 (1) Estimated water use is based on water use in various rural markets that are being replaced by public supplied water systems. See Part II for details.
 (2) Industrial water use is based on the 1990 Census and is assumed to increase 1.25% annually.
 (3) M&I water use includes public supplied water for domestic, commercial, and industrial use.
 SOURCE: Population Growth - State Demographic Population Forecast; GDP - Employment; Economic Growth

Humboldt County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

Year	Annual Forecasted Population on Public Water System (1)	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self-Supplied Domestic Water Use (2)	Forecasted Total Population on Public Water Systems (3)	Forecasted Total of Population on Public Supply	Forecasted Public Supplied Domestic Water Use (4)	Forecasted Self-Supplied Domestic Water Use (5)	Forecasted Municipal & Industrial M&I Water Use (6) (7)
1980	6,114	1,728	877	--	--	--	--	--
1981	6,860	1,944	878	--	--	--	--	--
1982	7,218	2,045	917	--	--	--	--	--
1983	7,341	2,077	948	--	--	--	--	--
1984	7,797	2,096	928	--	--	--	--	--
1985	7,471	2,126	974	--	--	--	--	--
1986	7,412	2,101	970	--	--	--	--	--
1987	7,593	2,152	947	--	--	--	--	--
1988	7,565	2,077	1,047	--	--	--	--	--
1989	7,711	2,074	1,059	--	--	--	--	--
1990	7,971	2,328	1,157	--	--	--	--	--
1991	8,352	2,322	1,211	--	--	--	--	--
1992	8,339	2,317	1,254	--	--	--	--	--
1994	10,335	2,674	1,775	--	--	--	--	--
1995	10,732	3,071	1,450	10,732	66.39%	1,941	1,407	4,201
1996	10,678	3,082	1,429	10,880	66.10%	2,083	1,321	4,280
1997	11,008	3,281	1,512	11,794	66.12%	2,282	1,314	4,375
1998	11,885	3,268	1,552	12,904	66.13%	2,379	1,552	4,616
1999	12,189	3,454	1,593	13,901	66.13%	2,427	1,592	4,765
2000	12,488	3,529	1,674	14,914	66.19%	2,543	1,632	4,865
2001	12,783	3,522	1,671	15,407	66.14%	2,628	1,608	5,000
2002	13,072	3,608	1,712	15,995	66.24%	2,711	1,703	5,114
2003	13,355	3,695	1,748	16,382	66.23%	2,797	1,741	5,227
2004	13,631	3,800	1,794	16,662	66.23%	2,871	1,795	5,314
2005	13,904	3,909	1,819	16,955	66.23%	2,949	1,819	5,441
2006	14,166	4,013	1,873	17,199	66.27%	3,024	1,843	5,573
2007	14,412	4,084	1,888	17,453	66.27%	3,076	1,873	5,713
2008	14,653	4,152	1,918	17,601	66.30%	3,161	1,905	5,758
2009	14,882	4,218	1,948	17,951	66.30%	3,253	1,935	5,852
2010	15,106	4,290	1,977	18,162	66.30%	3,342	1,962	5,917
2011	15,313	4,340	2,004	18,376	66.30%	3,427	1,988	6,001
2012	15,517	4,386	2,030	18,578	66.37%	3,511	2,014	6,095
2013	15,719	4,433	2,054	18,767	66.38%	3,598	2,036	6,192
2014	15,918	4,477	2,076	18,944	66.40%	3,678	2,057	6,291
2015	16,115	4,541	2,097	19,108	66.42%	3,761	2,077	6,391
2016	16,310	4,582	2,116	19,265	66.43%	3,846	2,094	6,491
2017	16,503	4,619	2,133	19,419	66.44%	3,924	2,110	6,595
2018	16,694	4,651	2,149	19,568	66.47%	4,007	2,124	6,699
2019	16,881	4,679	2,161	19,712	66.48%	4,081	2,136	6,800
2020	17,067	4,702	2,172	19,851	66.50%	4,152	2,149	6,901

Assumptions:

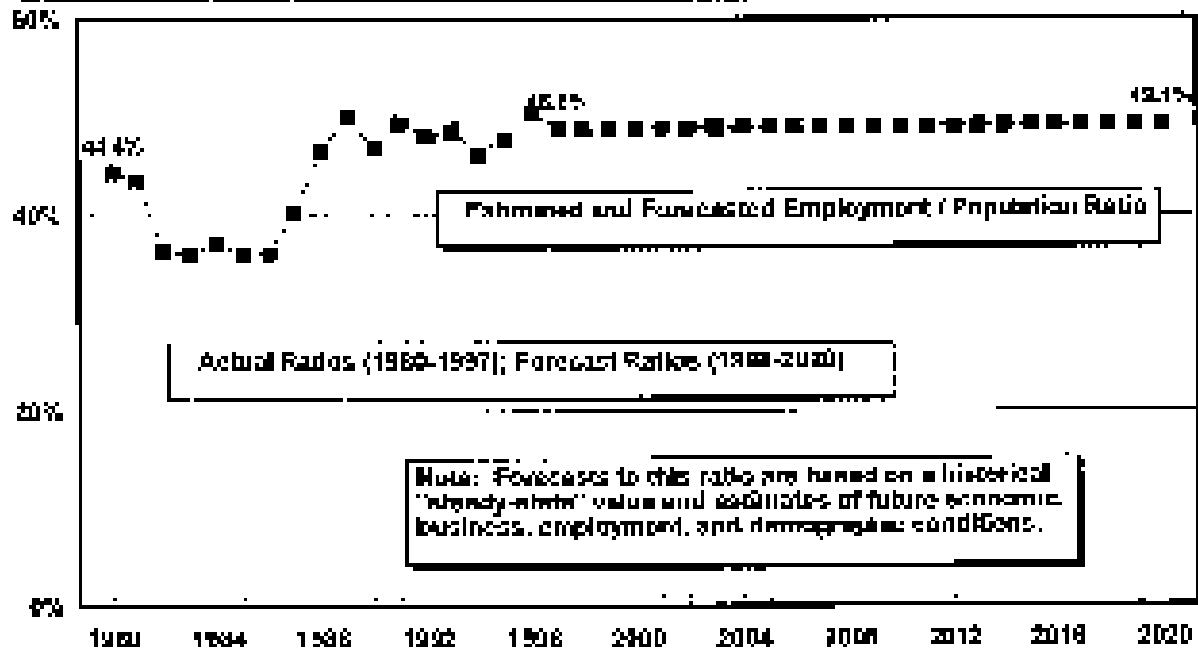
- M&I Domestic Use: Same as self-supplied; 1995-2020, 25.141 Gal/day per person per day—public supply
- Public Supplied Water Water Use: 1995-2020 0.2907, 0.28% 66.30% per person per year
- Domestic Water Use: Same as self-supplied water; 1995-2020, 227.6 Gal/day per person per day—self-supply
- Self-Supplied Water Use (M&I): 11,250.23 Acre-feet per person per year
- 1995 Estimated Resident Population on Public Supply: 16,944 (66% of total population)

Note: Domestic Use (4) is reported as approximately 62% M&I as law
 (1) Public supply used, as based on average percent of total residential population born on public supplied water systems.
 (2) Public supply forecast as based on average percent of total population born on public supplied water systems using year 1990 through 2010.
 (3) M&I water use includes public supplied water for residential, commercial, industrial and nonresidential uses.
 Source: Humboldt County—State Demographer; Nevada State Geologist—RTWR; San Francisco—MTR; Humboldt County—SDWP

Nevada Socioeconomic Analysis and Forecasts

Humboldt County Employment-to-Population Ratios

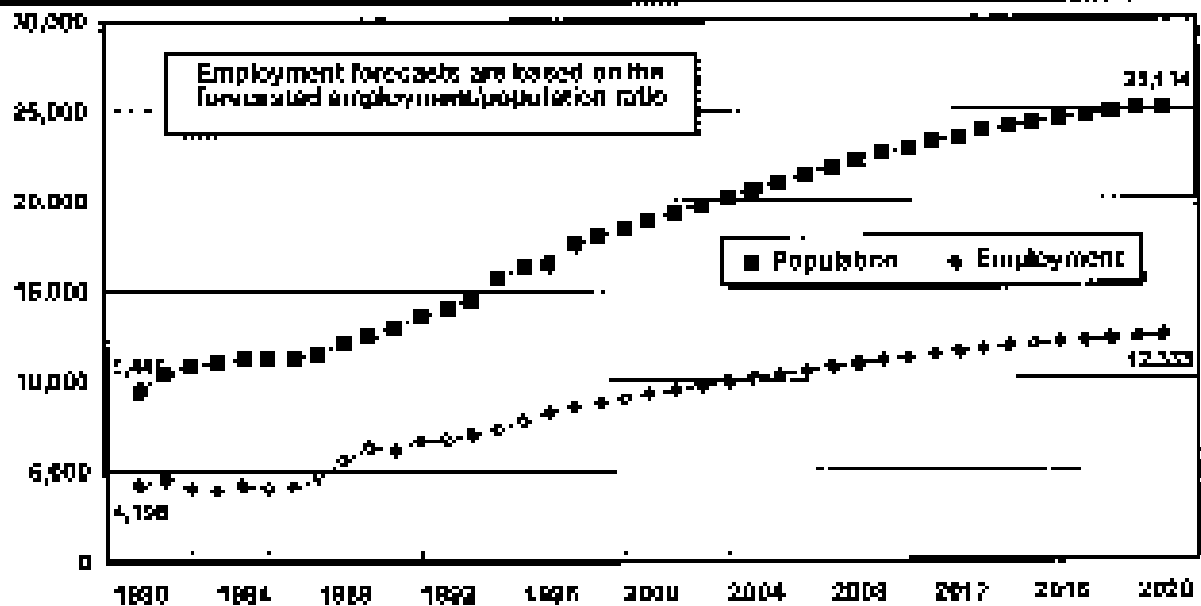
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographic, DETR.

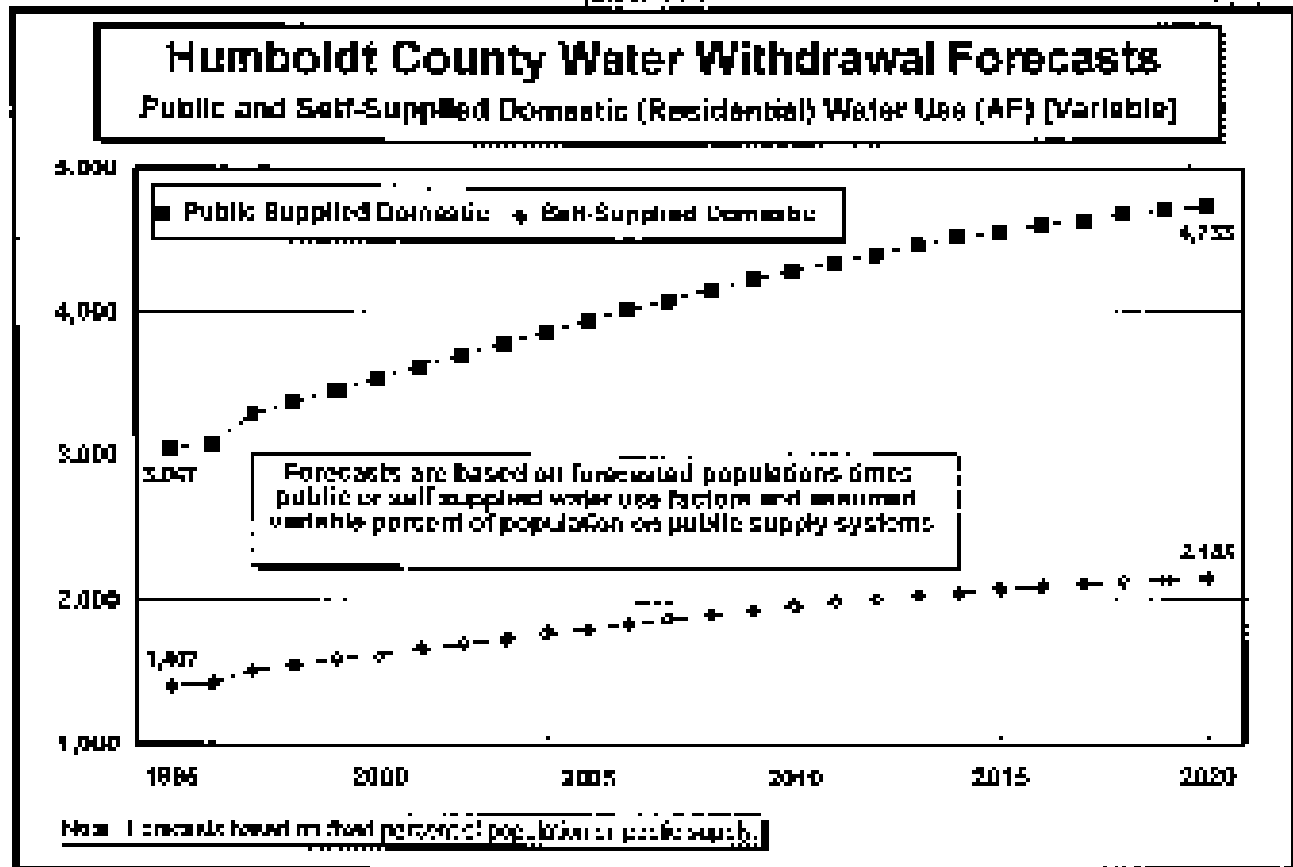
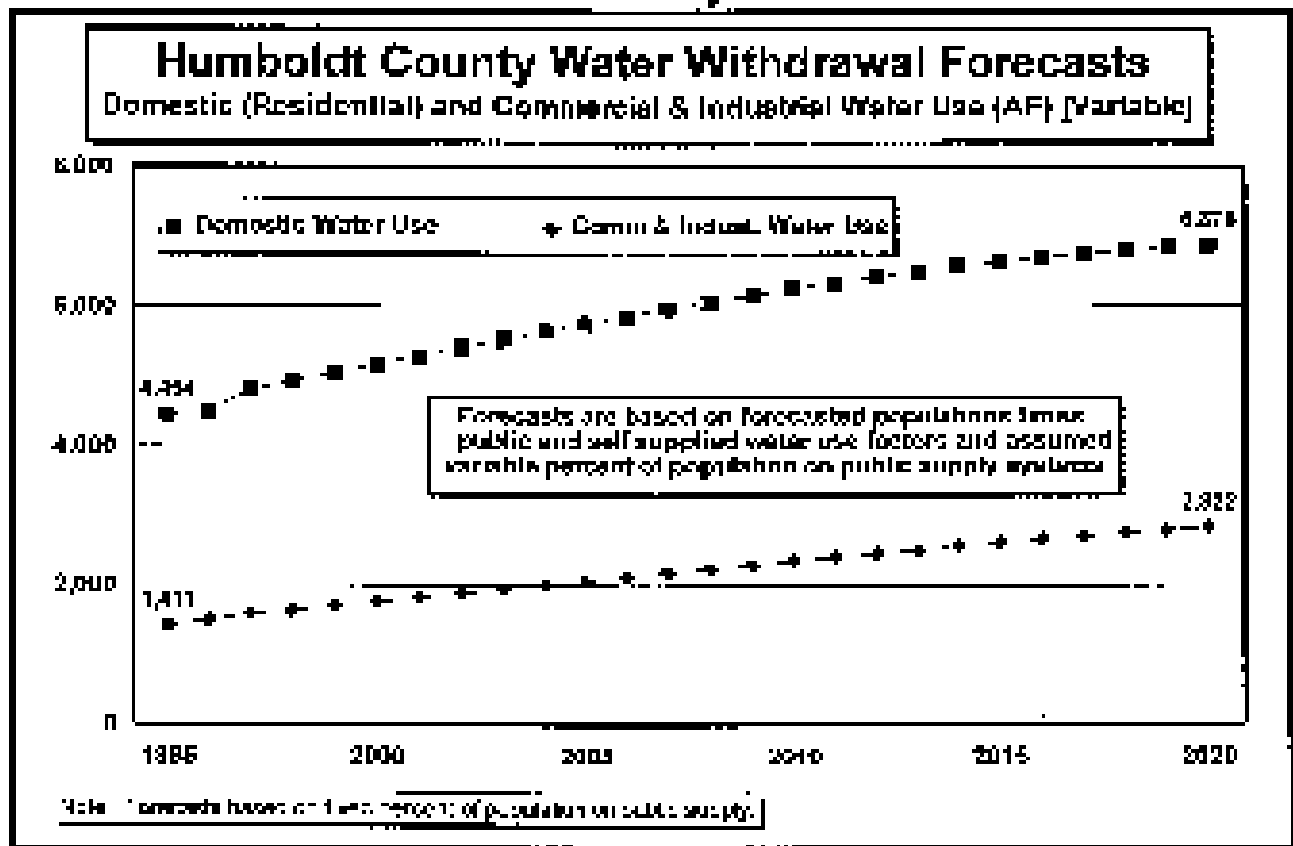
Humboldt County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)



Source: Data: Nevada State Demographic, DETR.

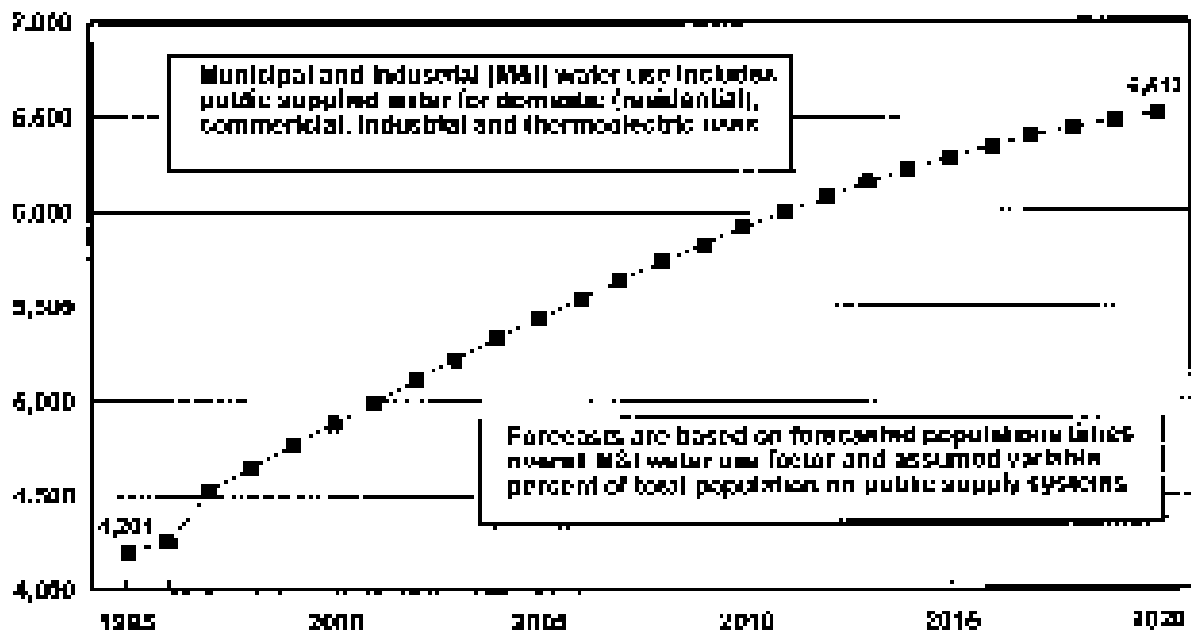
Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2

Humboldt County Water Withdrawal Forecasts

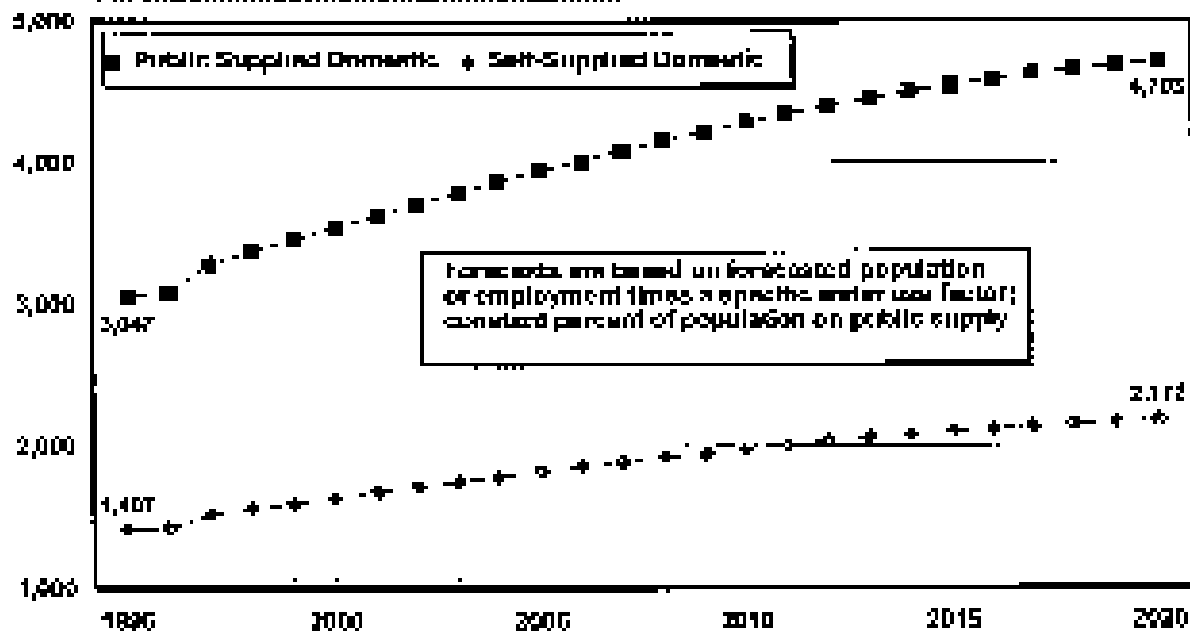
Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

Humboldt County Water Withdrawal Forecasts

Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Lander County Water Withdrawal Forecasts

Part 1-Residential, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Feet)

Year	Actual Population	Forecasted Population	Forecasted Employment	Forecasted M&I Water Use (AF)	Share of Total Forecasted Employment	Forecasted Total Domestic Water Use (AF)	Forecasted Total Commercial and Industrial Water Use (AF)	Forecasted Municipal & Industrial Water Use (AF)
1990	4,076	3,278	50.53%	994	30.11%	876	12	900
1991	4,080	3,195	43.50%	1,103	32.56%	1,057	46	1,103
1992	4,080	3,175	37.58%	1,015	34.01%	1,040	75	1,115
1993	4,231	3,071	31.59%	802	29.35%	952	88	1,040
1994	4,591	3,069	30.37%	818	26.98%	984	90	1,074
1995	4,591	3,041	37.40%	815	29.91%	950	65	1,015
1996	4,591	3,017	30.50%	751	25.19%	942	90	1,032
1997	4,601	2,989	32.03%	1,022	33.81%	956	100	1,056
1998	4,601	2,971	35.09%	1,069	37.01%	1,151	137	1,288
1999	4,701	2,958	35.71%	1,079	36.85%	1,312	157	1,469
2000	4,701	2,926	31.2%	1,060	31.75%	1,352	133	1,485
2001	4,701	2,919	30.12%	1,079	36.95%	1,340	140	1,480
2002	4,701	2,916	26.49%	1,079	37.01%	1,351	130	1,481
2003	4,701	2,927	27.51%	811	28.05%	1,347	150	1,497
2004	4,701	2,925	29.97%	1,047	36.15%	1,352	146	1,498
2005	4,701	2,926	31.15%	1,013	34.61%	1,410	151	1,561
2006	4,800	2,928	31.55%	1,080	37.25%	1,477	139	1,616
2007	4,900	2,928	34.11%	1,209	41.28%	1,501	151	1,652
2008	4,900	2,930	34.95%	1,208	42.26%	1,505	154	1,659
2009	4,900	2,926	33.47%	1,351	46.50%	1,516	154	1,670
2010	4,900	2,900	33.46%	1,364	46.32%	1,521	154	1,675
2011	4,900	2,912	33.44%	1,356	46.24%	1,547	160	1,707
2012	4,900	2,911	31.43%	1,303	45.09%	1,555	160	1,715
2013	4,900	2,903	31.41%	1,304	45.61%	1,556	164	1,720
2014	4,900	2,882	33.40%	1,304	45.95%	1,572	165	1,737
2015	4,900	2,889	33.58%	1,304	45.91%	1,572	165	1,737
2016	4,900	2,915	35.37%	1,307	41.84%	1,596	169	1,765
2017	4,900	2,915	35.35%	1,306	41.90%	1,605	171	1,776
2018	4,900	2,917	36.71%	1,311	44.28%	1,614	173	1,787
2019	4,900	2,915	36.71%	1,311	44.16%	1,621	173	1,794
2020	4,900	2,910	38.11%	1,306	45.75%	1,628	176	1,804
2021	4,900	2,900	38.34%	1,294	43.44%	1,633	177	1,810
2022	4,900	2,900	38.34%	1,294	43.15%	1,641	179	1,820
2023	4,900	2,900	38.34%	1,294	42.88%	1,646	180	1,826
2024	4,900	3,005	38.24%	1,250	42.60%	1,651	183	1,834
2025	4,900	3,011	38.23%	1,274	42.32%	1,657	183	1,840
2026	4,900	3,016	38.21%	1,268	42.04%	1,658	184	1,842
2027	4,900	3,019	38.20%	1,261	41.79%	1,661	184	1,845
2028	4,900	3,022	38.18%	1,253	41.48%	1,664	186	1,850
2029	4,900	3,025	38.17%	1,245	41.20%	1,668	187	1,855

Actual Period Average (1980-1997) 40.28% 4.17% Standard Deviation (1990-1997)

Forecast Period Average (1998-2025) 35.34% 35.62% Latest Most Probable Period (1994- 00/7)

Assumptions: M&I Factor Domestic Use

M&I = Total Domestic Water Use per Person 245.4 197.6 Gallons per person per day

[M&I Total Domestic Water Use Coefficient] 0.3745 0.3101 Acres-foot per person per day

Commercial & Industrial Water Use per Worker 94.4 Gallons per worker per day (excluding mining)

[Commercial & Industrial Water Use Coefficient] 0.1057 Acres-foot per worker per year (excluding mining)

Note: 1 Acre-foot = 325,851 Gallons (325,851 gal/AF)

[1] Forecast water use based on a 100% forecast of population (regardless of supply of water) minus associated off-balance

[2] Forecast water supply based on a 100% forecast of population (regardless of supply of water) minus associated off-balance

[3] M&I water use includes public supply water, non-domestic (industrial, agricultural, etc.) water

Source: Population - Bureau of Economic Analysis; Employment - Bureau of Economic Analysis; M&I Factor - NAWQA; Domestic Use - NAWQA

Lander County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

Year: Actual 1980-1999 Forecast 2000-2050	Forecasted Population in Public Water System (1)	Forecasted		Forecasted Population in Public Water Systems (2)	Variable Percentage Population on Public Supply	Forecasted		Forecasted Municipal & Industrial (M&I) Water Use (3)(4)
		Public Supplied Domestic Water Use (1)	Forecasted Self- Supplied Domestic Water Use (1)			Public Supplied Domestic Water Use (2)	Forecasted self- supplied Domestic Water Use (2)	
1980	3,006	76	154	--	--	--	--	--
1981	3,027	80	190	--	--	--	--	--
1982	4,019	81	189	--	--	--	--	--
1983	3,794	83	179	--	--	--	--	--
1984	3,689	79	174	--	--	--	--	--
1985	3,500	78	171	--	--	--	--	--
1986	3,233	79	171	--	--	--	--	--
1987	3,297	79	171	--	--	--	--	--
1988	4,404	94	202	--	--	--	--	--
1989	3,535	1,080	238	--	--	--	--	--
1990	3,506	1,092	240	--	--	--	--	--
1991	4,120	1,097	241	--	--	--	--	--
1992	5,128	1,096	242	--	--	--	--	--
1993	6,166	1,107	243	--	--	--	--	--
1994	6,153	1,104	243	--	--	--	--	--
1995	6,176	1,105	244	5,176	83.70%	1,109	244	1,123
1996	6,303	1,173	264	5,304	84.29%	1,156	264	1,435
1997	6,650	1,211	266	5,633	84.57%	1,211	266	1,554
1998	6,971	1,216	269	5,709	81.82%	1,283	268	1,590
1999	6,997	1,221	271	5,763	81.45%	1,255	269	1,783
2000	6,839	1,241	271	5,600	81.47%	1,246	272	1,693
2001	6,836	1,253	275	5,583	81.40%	1,257	271	1,611
2002	6,803	1,233	273	5,571	81.61%	1,267	276	1,525
2003	6,643	1,274	280	5,369	80.66%	1,277	278	1,557
2004	6,591	1,264	282	5,327	80.67%	1,285	280	1,519
2005	6,539	1,262	284	5,277	80.57%	1,295	281	1,561
2006	6,490	1,261	286	5,229	80.50%	1,304	283	1,572
2007	6,441	1,261	288	5,181	80.41%	1,313	284	1,632
2008	6,411	1,260	289	5,151	80.33%	1,320	286	1,692
2009	6,372	1,259	291	5,124	80.59%	1,327	287	1,651
2010	6,303	1,258	292	5,050	80.29%	1,334	288	1,610
2011	6,295	1,253	294	5,042	80.30%	1,340	289	1,719
2012	6,253	1,242	295	5,011	80.71%	1,346	290	1,725
2013	6,201	1,243	296	4,963	80.19%	1,351	290	1,721
2014	6,157	1,242	297	4,915	80.16%	1,356	291	1,737
2015	6,115	1,241	294	4,874	80.19%	1,360	291	1,742
2016	6,070	1,236	293	4,834	80.26%	1,363	291	1,761
2017	6,043	1,239	299	4,804	80.82%	1,366	292	1,761
2018	6,013	1,241	299	4,772	80.87%	1,369	292	1,751
2019	6,000	1,243	300	4,757	80.94%	1,371	292	1,756
2020	6,006	1,244	300	4,762	80.82%	1,371	292	1,758

Assumptions:

- M&I - Domestic Use Coefficient (Public Supplied) 245.4 Gallons per person per day (GPPD) 2015
- [Public Supplied Water] Water Use Coefficient(s) 0.274E Ac-ft/yr per person (2015)
- Domestic Water Use per Person - Self-Supplied Water 172.2 Gallons per person per day (GPPD) 2015
- [Self-Supplied Water] Water Use Coefficient(s) 0.191E Ac-ft/yr per person (2015)
- 1995 Forecasted Resident Population on Public Supply 80.57% Percent of total resident population

Note: Coefficient (M&I) multiplied by population = 2015 GPPD

[1] Estimate for population growth is based on the 2015 population for the public water supply system.

[2] Estimate for population growth is based on the 2015 population for the public water supply system for the year 1990 through 2015.

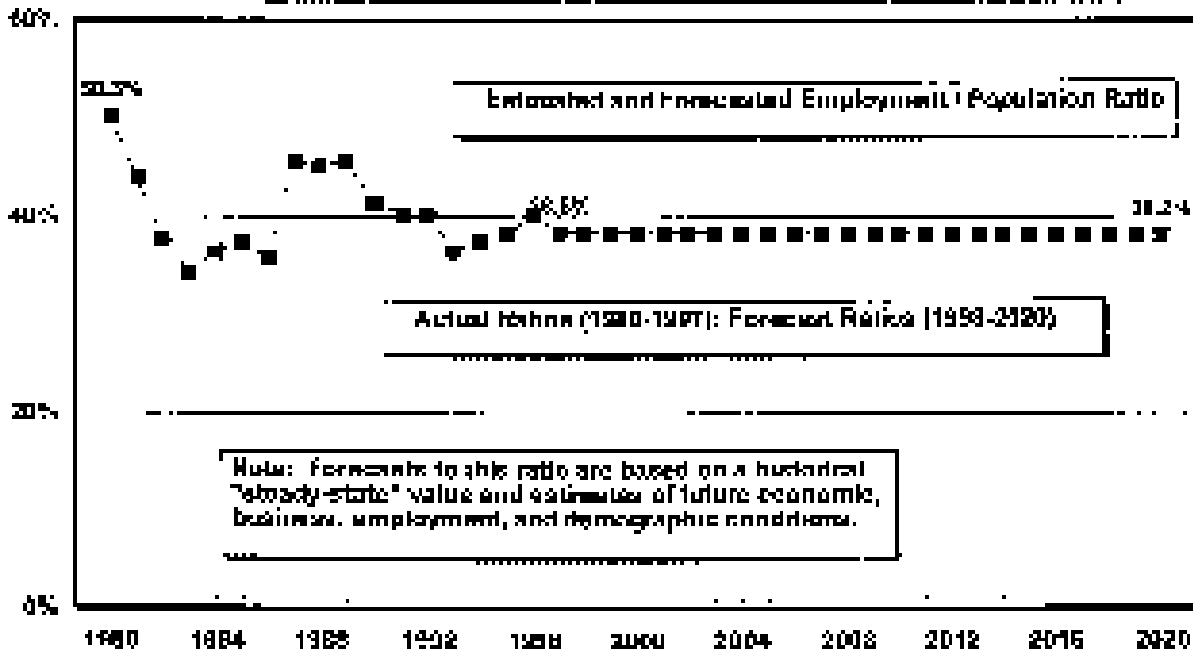
[3] M&I water use includes public-supplied water for domestic, residential, commercial, industrial and municipal uses.

Source: Population Growth and Domestic Water Use Forecasts (2015) Prepared by D. L. Engstrom for the NDFW

Nevada Socioeconomic Analysis and Forecasts

Lander County Employment-to-Population Ratios

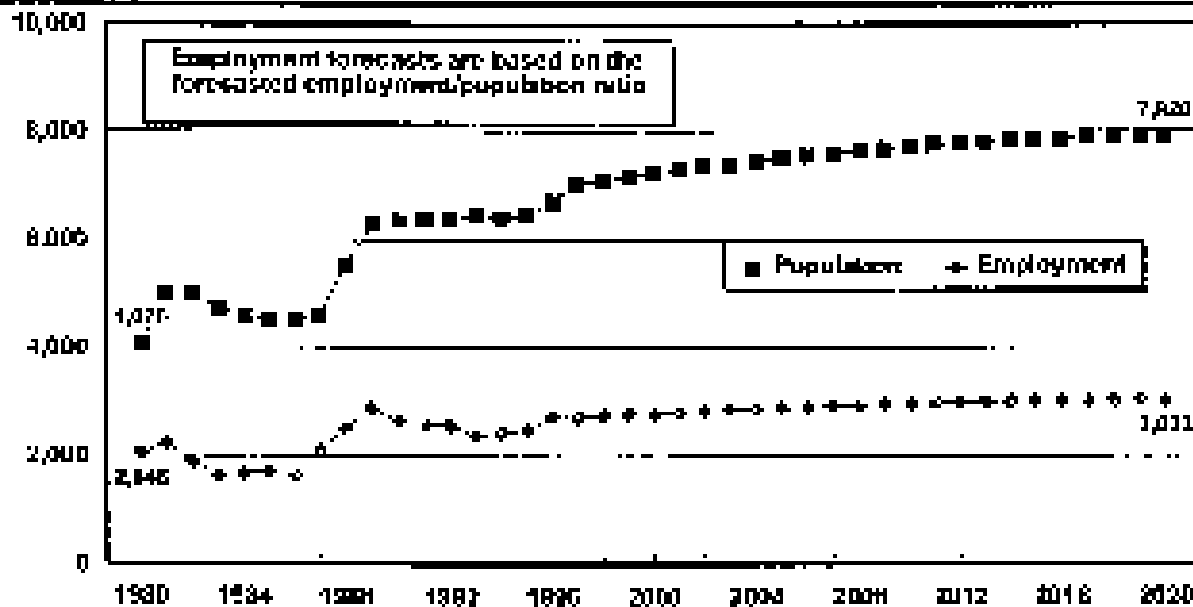
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographer, NDR.

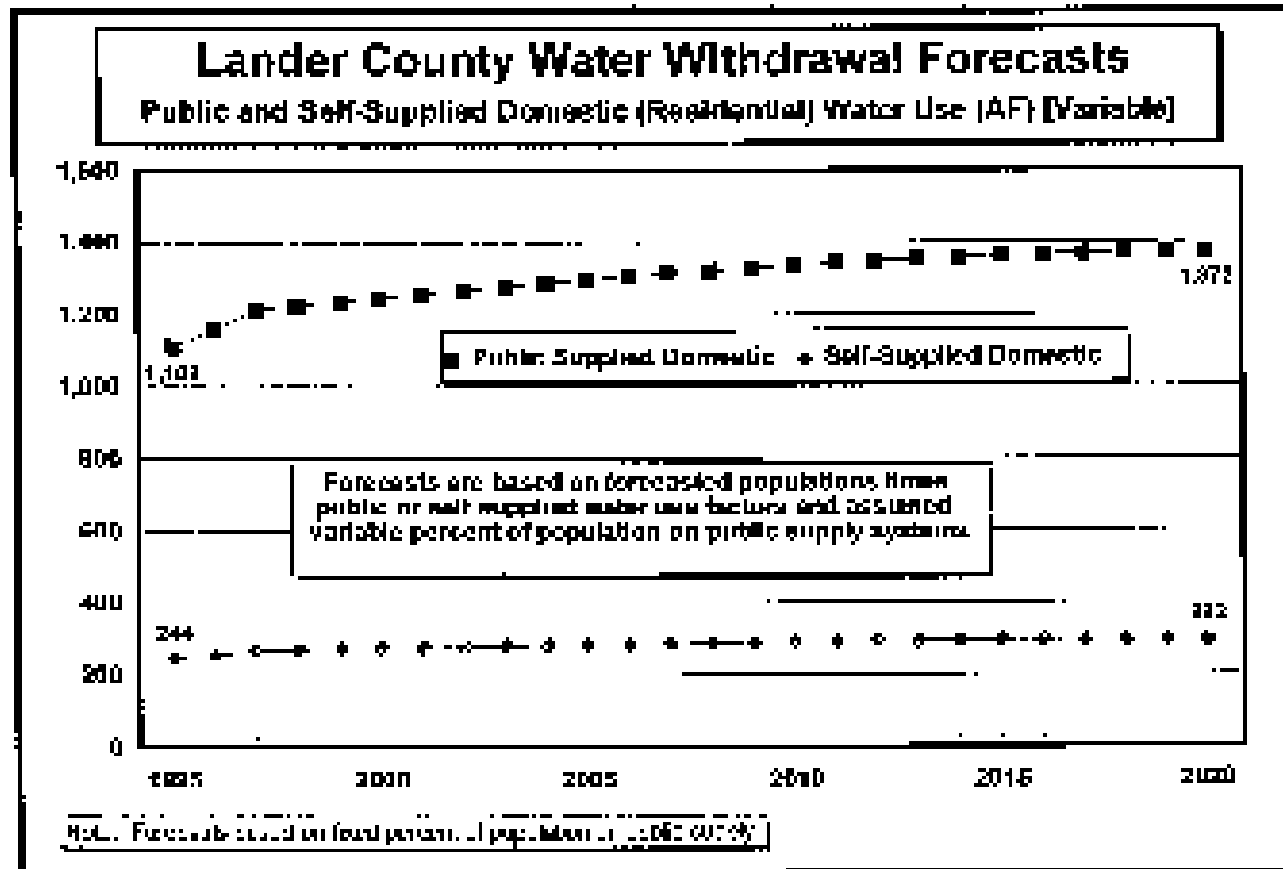
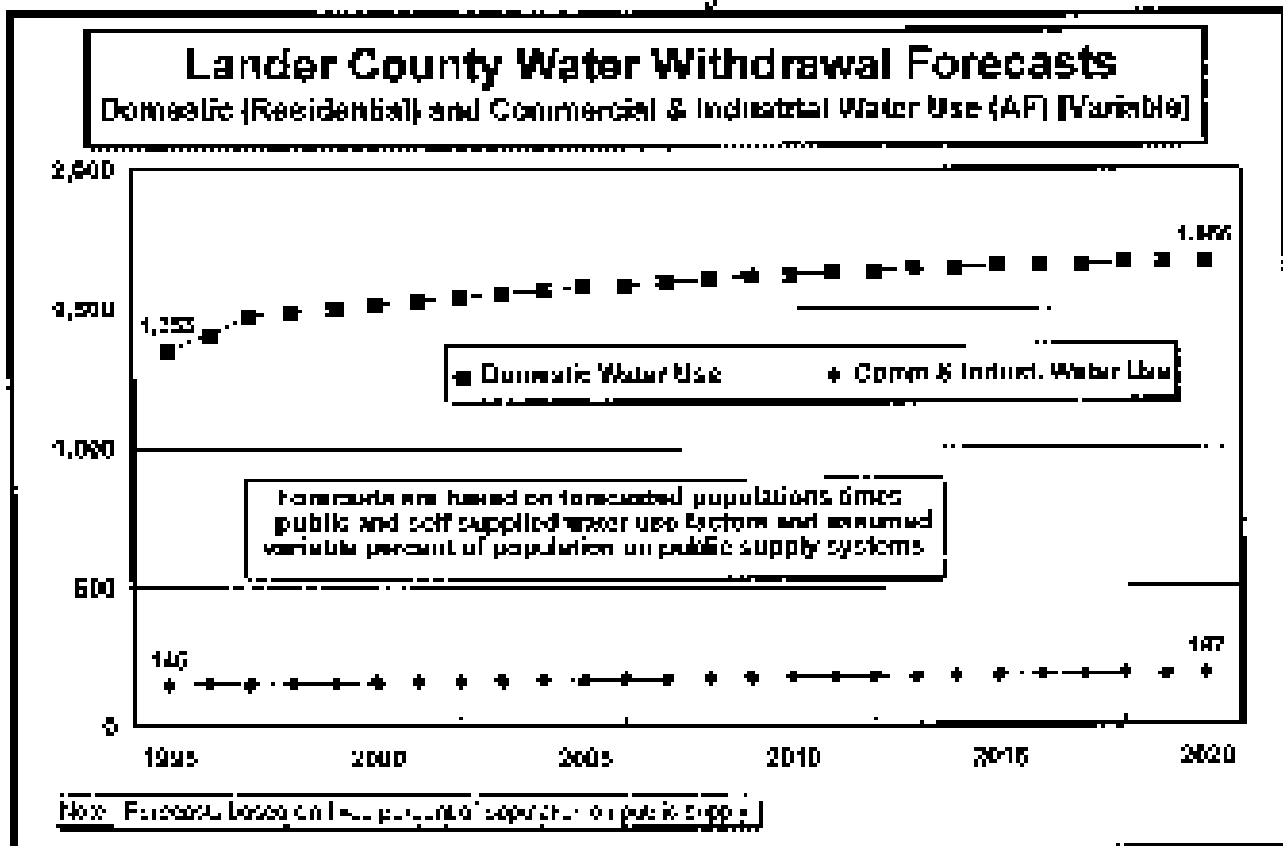
Lander County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

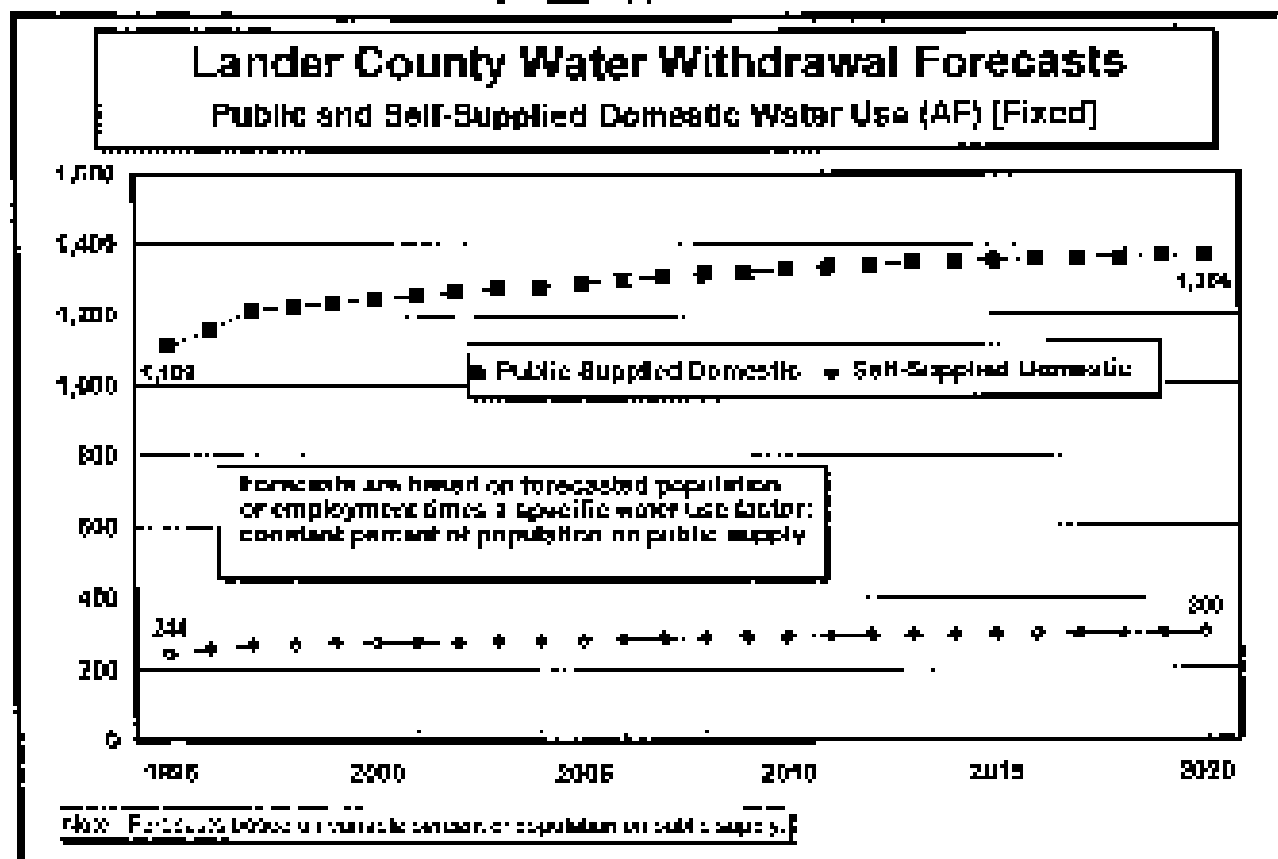
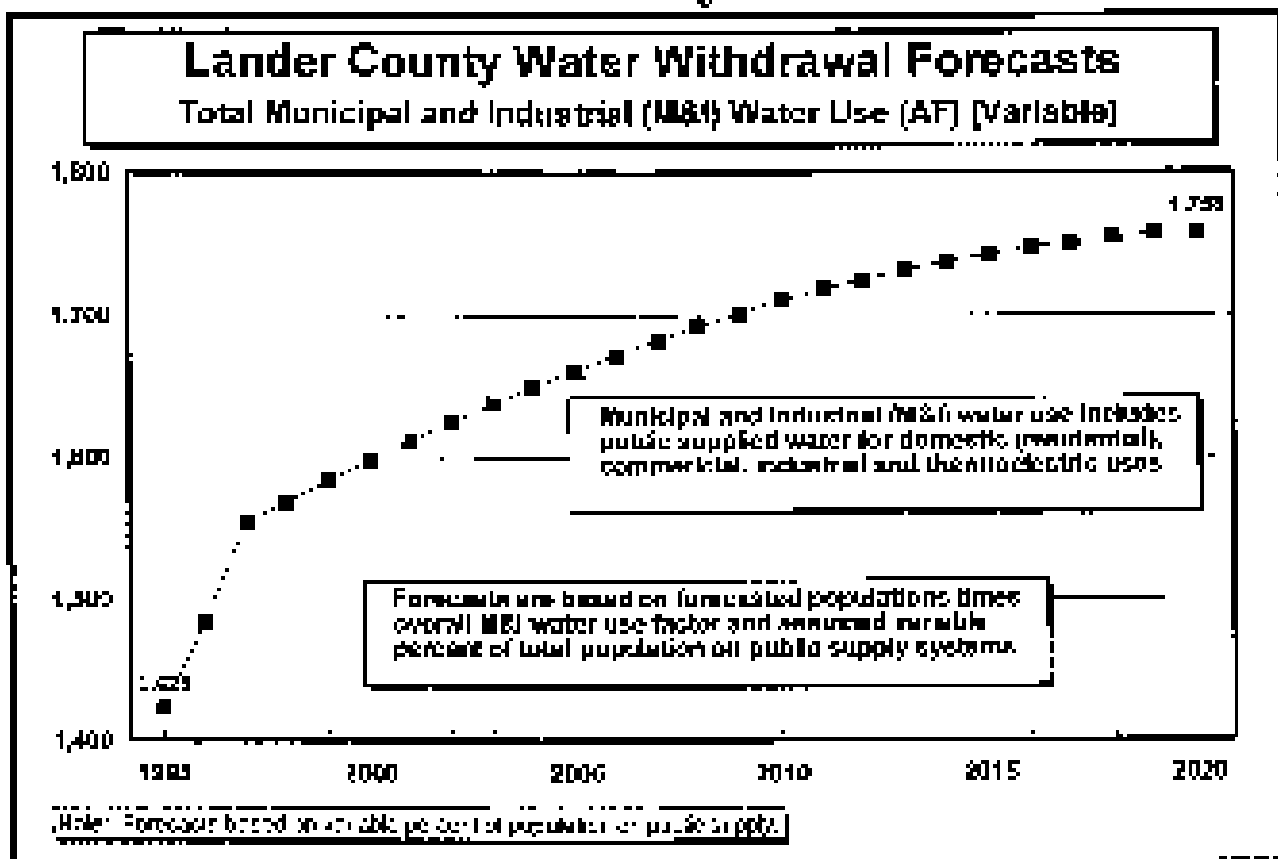


Source: Data: Nevada State Demographer, NDR.

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



Lincoln County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres Feet)

Year	Actual Forecast 1998-2008	Estimated and Forecasted Resident Population	Estimated and Forecasted Total (Resident and Employment)	Employment Population Daily	Estimated and Forecasted Mining Employment	Share of Total County Employment	Forecasted Data: Domestic (Household) Water Use [1]	Forecasted Total Commercial and Industrial Water Use [2]	Forecasted Total M&I Water Use [1][2]
1998	3,752	1,553	35,156%	301	13,00%	37%	1,210	247	1,457
1999	3,765	1,572	35,123%	347	13,38%	38%	1,240	317	1,557
2000	3,775	1,581	35,066%	420	13,9%	39%	1,243	370	1,613
2001	3,792	1,591	35,030%	56	1,9%	39%	1,240	388	1,628
2002	3,779	1,598	35,07%	67	2,2%	39%	1,243	402	1,645
2003	3,780	1,607	35,03%	77	2,2%	39%	1,246	394	1,640
2004	3,780	1,622	35,07%	82	2,3%	39%	1,246	395	1,641
2005	3,750	1,641	35,06%	70	2,0%	39%	1,250	397	1,647
2006	3,800	1,659	35,06%	83	2,3%	39%	1,253	407	1,660
2007	3,800	1,677	35,07%	77	2,2%	39%	1,253	409	1,662
2008	3,810	1,687	35,05%	77	2,2%	39%	1,256	431	1,687
2009	3,870	1,718	35,02%	79	2,3%	39%	1,276	411	1,687
2010	4,000	1,519	35,04%	15	0,4%	39%	1,343	377	1,720
2011	4,100	1,600	35,06%	14	0,4%	39%	1,363	387	1,750
2012	4,200	1,654	35,04%	14	0,4%	39%	1,404	397	1,801
2013	4,300	1,675	35,06%	14	0,4%	39%	1,405	407	1,812
2014	4,400	1,696	35,07%	14	0,4%	39%	1,425	417	1,842
2015	4,500	1,717	35,08%	14	0,4%	39%	1,445	427	1,872
2016	4,600	1,738	35,09%	14	0,4%	39%	1,465	437	1,902
2017	4,700	1,759	35,10%	14	0,4%	39%	1,485	447	1,932
2018	4,800	1,780	35,11%	14	0,4%	39%	1,505	457	1,962
2019	4,900	1,801	35,12%	14	0,4%	39%	1,525	467	1,992
2020	4,900	1,822	35,13%	14	0,4%	39%	1,545	477	2,022
2021	4,900	1,843	35,14%	14	0,4%	39%	1,565	487	2,052
2022	4,900	1,864	35,15%	14	0,4%	39%	1,585	497	2,082
2023	4,900	1,885	35,16%	14	0,4%	39%	1,605	507	2,112
2024	4,900	1,906	35,17%	14	0,4%	39%	1,625	517	2,142
2025	4,900	1,927	35,18%	14	0,4%	39%	1,645	527	2,172
2026	4,900	1,948	35,19%	14	0,4%	39%	1,665	537	2,202
2027	4,900	1,969	35,20%	14	0,4%	39%	1,685	547	2,232
2028	4,900	1,990	35,21%	14	0,4%	39%	1,705	557	2,262
2029	4,900	2,011	35,22%	14	0,4%	39%	1,725	567	2,292
2030	4,900	2,032	35,23%	14	0,4%	39%	1,745	577	2,322
2031	4,900	2,053	35,24%	14	0,4%	39%	1,765	587	2,352
2032	4,900	2,074	35,25%	14	0,4%	39%	1,785	597	2,382
2033	4,900	2,095	35,26%	14	0,4%	39%	1,805	607	2,412
2034	4,900	2,116	35,27%	14	0,4%	39%	1,825	617	2,442
2035	4,900	2,137	35,28%	14	0,4%	39%	1,845	627	2,472
2036	4,900	2,158	35,29%	14	0,4%	39%	1,865	637	2,502
2037	4,900	2,179	35,30%	14	0,4%	39%	1,885	647	2,532
2038	4,900	2,200	35,31%	14	0,4%	39%	1,905	657	2,562
2039	4,900	2,221	35,32%	14	0,4%	39%	1,925	667	2,592
2040	4,900	2,242	35,33%	14	0,4%	39%	1,945	677	2,622
2041	4,900	2,263	35,34%	14	0,4%	39%	1,965	687	2,652
2042	4,900	2,284	35,35%	14	0,4%	39%	1,985	697	2,682
2043	4,900	2,305	35,36%	14	0,4%	39%	2,005	707	2,712
2044	4,900	2,326	35,37%	14	0,4%	39%	2,025	717	2,742
2045	4,900	2,347	35,38%	14	0,4%	39%	2,045	727	2,772
2046	4,900	2,368	35,39%	14	0,4%	39%	2,065	737	2,802
2047	4,900	2,389	35,40%	14	0,4%	39%	2,085	747	2,832
2048	4,900	2,410	35,41%	14	0,4%	39%	2,105	757	2,862
2049	4,900	2,431	35,42%	14	0,4%	39%	2,125	767	2,892
2050	4,900	2,452	35,43%	14	0,4%	39%	2,145	777	2,922
2051	4,900	2,473	35,44%	14	0,4%	39%	2,165	787	2,952
2052	4,900	2,494	35,45%	14	0,4%	39%	2,185	797	2,982
2053	4,900	2,515	35,46%	14	0,4%	39%	2,205	807	3,012
2054	4,900	2,536	35,47%	14	0,4%	39%	2,225	817	3,042
2055	4,900	2,557	35,48%	14	0,4%	39%	2,245	827	3,072
2056	4,900	2,578	35,49%	14	0,4%	39%	2,265	837	3,102
2057	4,900	2,599	35,50%	14	0,4%	39%	2,285	847	3,132
2058	4,900	2,620	35,51%	14	0,4%	39%	2,305	857	3,162
2059	4,900	2,641	35,52%	14	0,4%	39%	2,325	867	3,192
2060	4,900	2,662	35,53%	14	0,4%	39%	2,345	877	3,222
2061	4,900	2,683	35,54%	14	0,4%	39%	2,365	887	3,252
2062	4,900	2,704	35,55%	14	0,4%	39%	2,385	897	3,282
2063	4,900	2,725	35,56%	14	0,4%	39%	2,405	907	3,312
2064	4,900	2,746	35,57%	14	0,4%	39%	2,425	917	3,342
2065	4,900	2,767	35,58%	14	0,4%	39%	2,445	927	3,372
2066	4,900	2,788	35,59%	14	0,4%	39%	2,465	937	3,402
2067	4,900	2,809	35,60%	14	0,4%	39%	2,485	947	3,432
2068	4,900	2,830	35,61%	14	0,4%	39%	2,505	957	3,462
2069	4,900	2,851	35,62%	14	0,4%	39%	2,525	967	3,492
2070	4,900	2,872	35,63%	14	0,4%	39%	2,545	977	3,522
2071	4,900	2,893	35,64%	14	0,4%	39%	2,565	987	3,552
2072	4,900	2,914	35,65%	14	0,4%	39%	2,585	997	3,582
2073	4,900	2,935	35,66%	14	0,4%	39%	2,605	1,007	3,612
2074	4,900	2,956	35,67%	14	0,4%	39%	2,625	1,017	3,642
2075	4,900	2,977	35,68%	14	0,4%	39%	2,645	1,027	3,672
2076	4,900	2,998	35,69%	14	0,4%	39%	2,665	1,037	3,702
2077	4,900	3,019	35,70%	14	0,4%	39%	2,685	1,047	3,732
2078	4,900	3,040	35,71%	14	0,4%	39%	2,705	1,057	3,762
2079	4,900	3,061	35,72%	14	0,4%	39%	2,725	1,067	3,792
2080	4,900	3,082	35,73%	14	0,4%	39%	2,745	1,077	3,822
2081	4,900	3,103	35,74%	14	0,4%	39%	2,765	1,087	3,852
2082	4,900	3,124	35,75%	14	0,4%	39%	2,785	1,097	3,882
2083	4,900	3,145	35,76%	14	0,4%	39%	2,805	1,107	3,912
2084	4,900	3,166	35,77%	14	0,4%	39%	2,825	1,117	3,942
2085	4,900	3,187	35,78%	14	0,4%	39%	2,845	1,127	3,972
2086	4,900	3,208	35,79%	14	0,4%	39%	2,865	1,137	4,002
2087	4,900	3,229	35,80%	14	0,4%	39%	2,885	1,147	4,032
2088	4,900	3,250	35,81%	14	0,4%	39%	2,905	1,157	4,062
2089	4,900	3,271	35,82%	14	0,4%	39%	2,925	1,167	4,092
2090	4,900	3,292	35,83%	14	0,4%	39%	2,945	1,177	4,122
2091	4,900	3,313	35,84%	14	0,4%	39%	2,965	1,187	4,152
2092	4,900	3,334	35,85%	14	0,4%	39%	2,985	1,197	4,182
2093	4,900	3,355	35,86%	14	0,4%	39%	3,005	1,207	4,212
2094	4,900	3,376	35,87%	14	0,4%	39%	3,025	1,217	4,242
2095	4,900	3,397	35,88%	14	0,4%	39%	3,045	1,227	4,272
2096	4,900	3,418	35,89%	14	0,4%	39%	3,065	1,237	4,302
2097	4,900	3,439	35,90%	14	0,4%	39%	3,085	1,247	4,332
2098	4,900	3,460	35,91%	14	0,4%	39%	3,105	1,257	4,362
2099	4,900	3,481	35,92%	14	0,4%	39%	3,125	1,267	4,392
2100	4,900	3,502	35,93%	14	0,4%	39%	3,145	1,277	4,422

Actual Period Average (1982-1997)..... 42,12% 4,28% Standard Deviation (1982-1997).....
Forecast Period Average (1998-2020)..... 34,52% 36,68% Lorenz Method with a Period of 1994 - 2007

Average/Share: **M&I Factor** **Share of Total**

M&I Total Domestic Water Use per acre-foot..... 4,900 784.7 Gallons per person per day
Domestic Domestic Water Use Coefficient..... 0,397 1,000 gal per person per year

Commercial & Industrial Water Use Coefficient..... 3,130 6,000 gal per sq. ft. per day (residential minimum)
Commercial & Industrial Water Use Coefficient..... 6,200 1,500 gal per sq. ft. per year (residential minimum)

Note: The coefficient for Commercial use is approximately 36,000 gal/acre-ft.

1) Estimate water use is based on an 80% percent of the domestic population being supplied with water (based on a date of 10,000)
2) Population is based on employment and other water use
3) 1981 water use includes water applied across the domain of public and commercial, industrial and residential uses

Source: Demographic estimates—State Demographic Population Projections—M&I Employment—Lincoln County—Estimated System—WSP

Lincoln County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year (Actual 1960-1977; Forecast 1978-2025)	Forecasted Population on Public Water System (1)	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self-Supplied Domestic Water Use (1)	Forecasted Population on Public Water System (2)	Variable Forecasted Population on Public Supply	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self-Supplied Domestic Water Use (2)	Forecasted Municipal & Industrial (MSI) Water Use (1)(1)
1960	2,912	967	214	-	-	-	-	-
1961	2,938	950	250	-	-	-	-	-
1962	2,944	992	250	-	-	-	-	-
1963	2,954	990	250	-	-	-	-	-
1964	2,945	939	250	-	-	-	-	-
1965	2,953	944	251	-	-	-	-	-
1966	2,957	945	251	-	-	-	-	-
1967	2,951	958	252	-	-	-	-	-
1968	2,958	1,050	253	-	-	-	-	-
1969	2,959	1,050	253	-	-	-	-	-
1970	2,977	1,058	253	-	-	-	-	-
1971	2,923	1,019	257	-	-	-	-	-
1972	2,988	1,070	271	-	-	-	-	-
1973	2,987	1,067	274	-	-	-	-	-
1974	2,975	1,127	287	-	-	-	-	-
1975	2,911	1,052	273	2,911	74.03%	1,067	273	1,352
1976	2,942	1,058	267	2,942	75.15%	1,079	269	1,316
1977	2,917	1,067	270	2,917	75.17%	1,080	270	1,301
1978	2,926	1,067	274	2,926	75.10%	1,068	274	1,358
1979	2,924	1,097	276	2,924	75.20%	1,075	275	1,366
2000	2,876	1,097	277	2,876	75.22%	1,078	276	1,373
2001	2,856	1,102	273	2,856	75.24%	1,108	276	1,380
2002	2,862	1,104	279	2,862	75.26%	1,108	277	1,386
2003	2,895	1,110	280	2,895	75.28%	1,117	279	1,393
2004	2,907	1,143	281	2,907	75.30%	1,117	279	1,396
2005	2,915	1,148	282	2,915	75.32%	1,121	280	1,398
2006	2,923	1,149	283	2,923	75.34%	1,125	280	1,400
2007	2,939	1,155	284	2,939	75.36%	1,128	281	1,403
2008	2,944	1,154	285	2,944	75.38%	1,132	281	1,405
2009	2,954	1,151	287	2,954	75.40%	1,135	282	1,404
2010	2,967	1,154	286	2,967	75.42%	1,138	282	1,405
2011	2,972	1,156	286	2,972	75.44%	1,141	282	1,405
2012	2,979	1,159	286	2,979	75.46%	1,143	282	1,405
2013	2,983	1,161	285	2,983	75.48%	1,146	282	1,405
2014	2,990	1,161	285	2,990	75.50%	1,148	282	1,405
2015	2,991	1,161	289	2,991	75.52%	1,150	283	1,405
2016	2,994	1,165	287	2,994	75.54%	1,151	284	1,407
2017	2,992	1,167	287	2,991	75.56%	1,153	284	1,407
2018	2,999	1,167	290	2,998	75.58%	1,154	284	1,407
2019	2,997	1,168	290	2,998	75.60%	1,155	284	1,407
2020	2,999	1,168	290	2,999	75.62%	1,156	283	1,407

Assumptions:

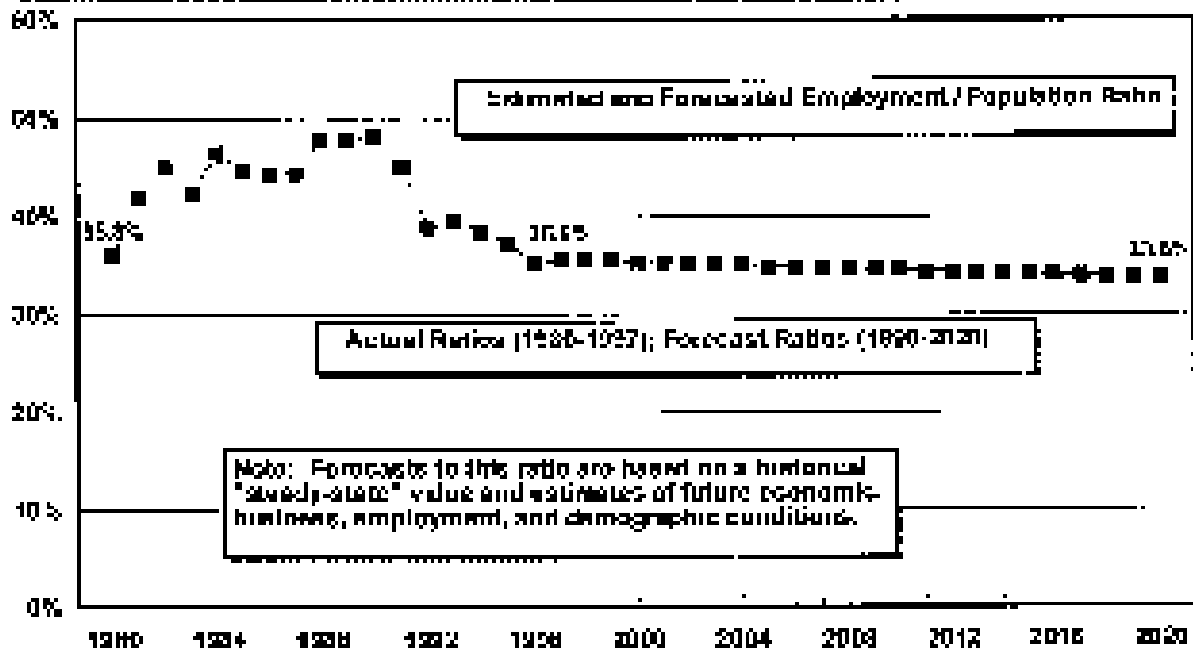
M&I Domestic Use Based on (1) M&I Surveys (2) M&I Surveys
 Public Supplied Self-Water Use Coefficient: 0.4827 (1978-2025) Average per person per year
 Domestic Water Use per Person - Self-Supplied Water: 271.1 Gallons per person per day - 79' supply
 Self-Supplied Water Use Coefficient: 0.3007 (1978-2025) Average per acre-foot per year
 1978 Estimated (Actual) Population on Public Supply: 2,917 (1978) 75.10% of total resident population
 Note: Use was based on population and water use data from publicly available sources.

(1) Domestic Forecasts are based on a 0.5% per year total resident population growth on public supplied water systems.
 (2) Municipal forecasts are based on a 0.5% per year total resident population growth on public supplied water systems for years 1978 through 2025.
 Note: M&I water use includes public-supplied water for domestic residential, commercial, industrial, and other non-residential use.
 Source: Population and water flow data supplied by Department of Water Resources - NWRP; Employment - BUREAU OF ECONOMIC ANALYSIS - BUREAU OF ECONOMIC ANALYSIS.

Nevada Socioeconomic Analysis and Forecasts

Lincoln County Employment-to-Population Ratios

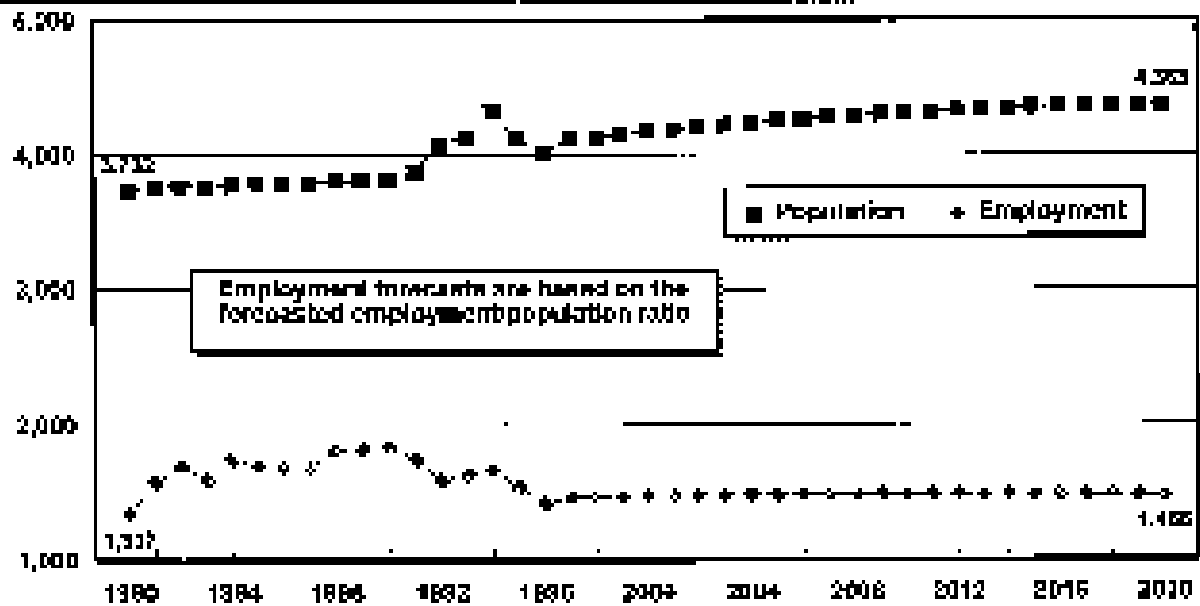
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographer, DCTR

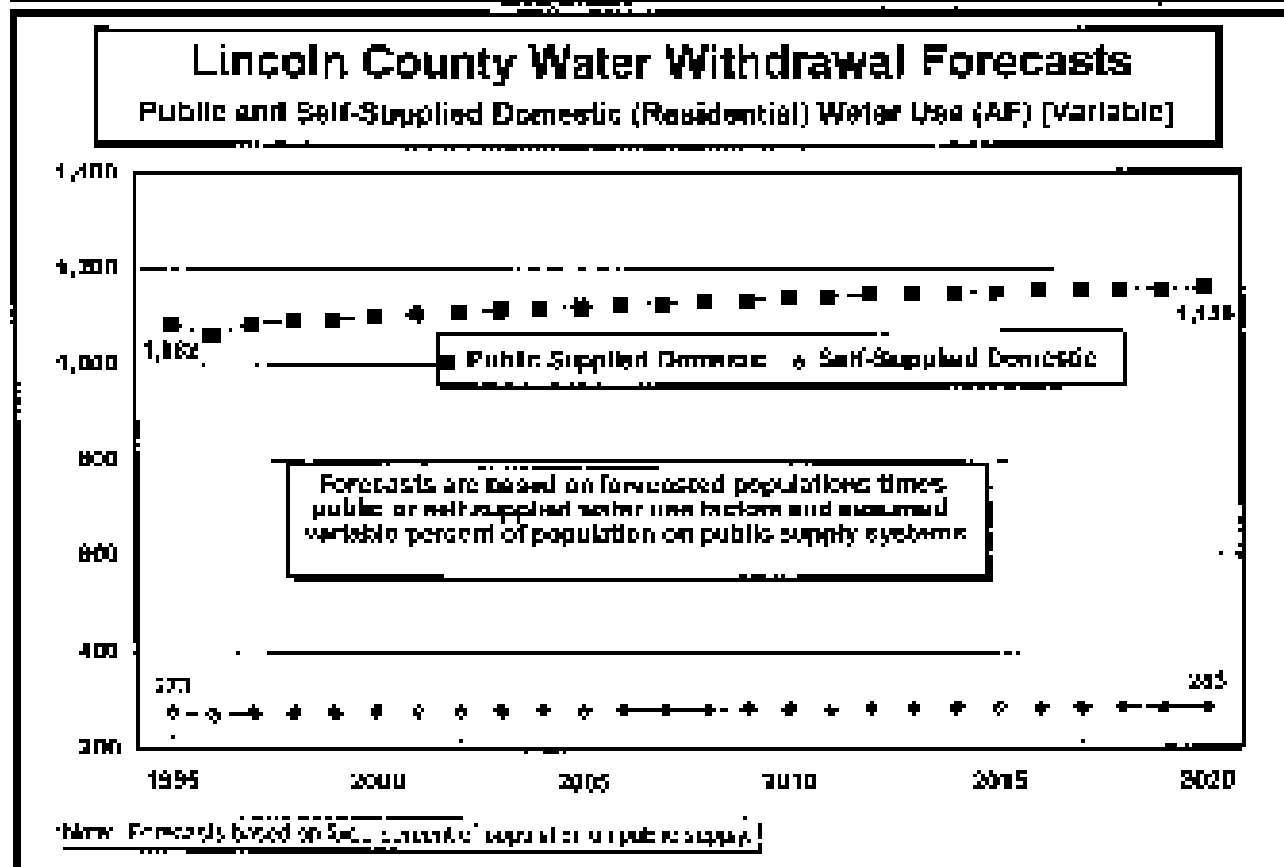
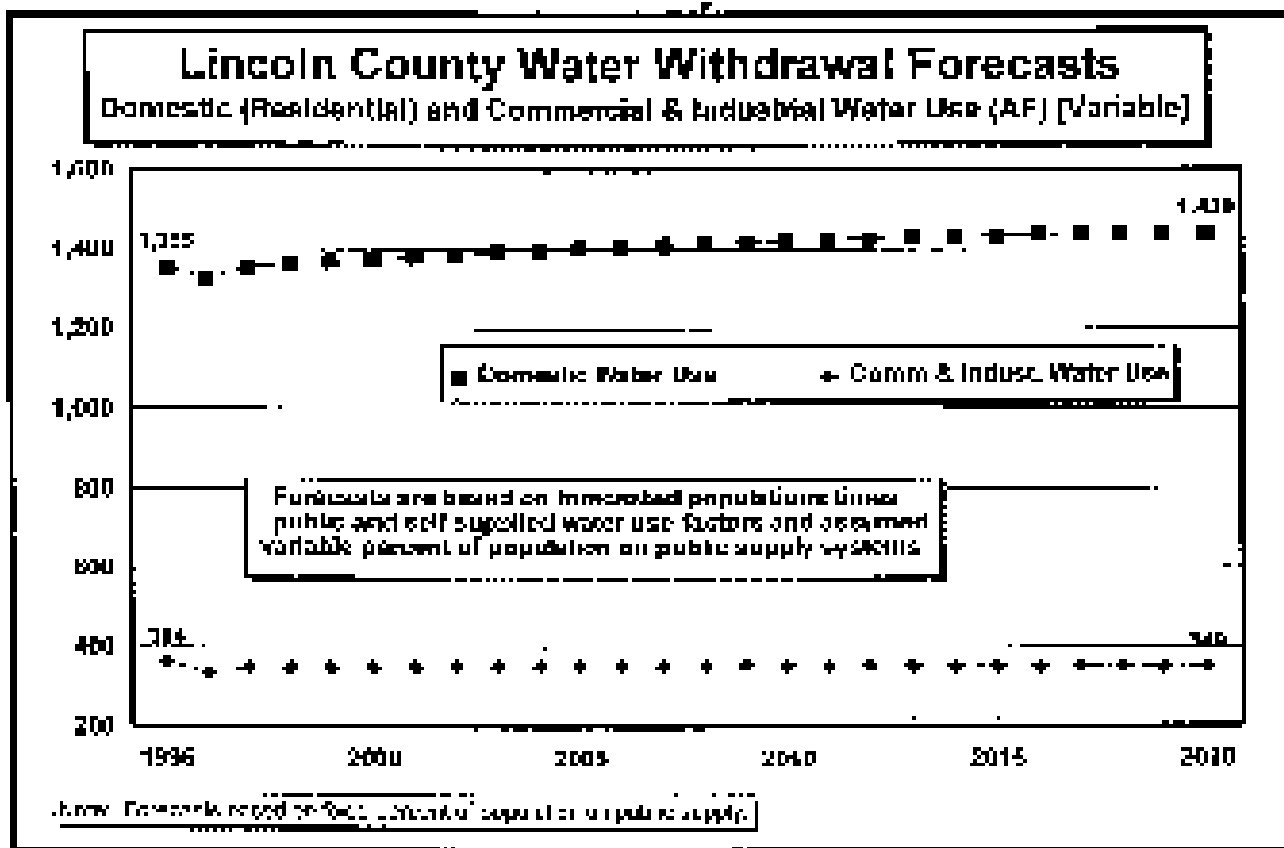
Lincoln County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

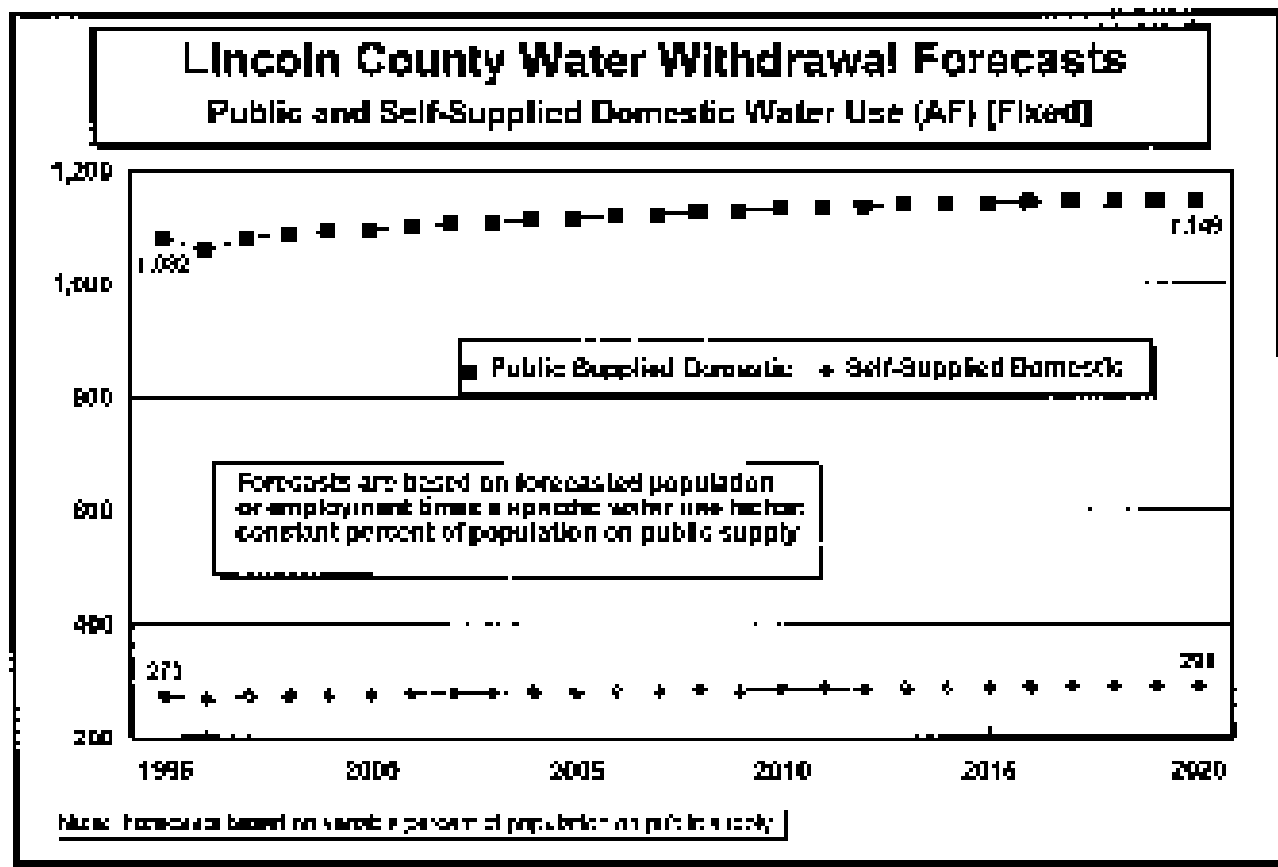
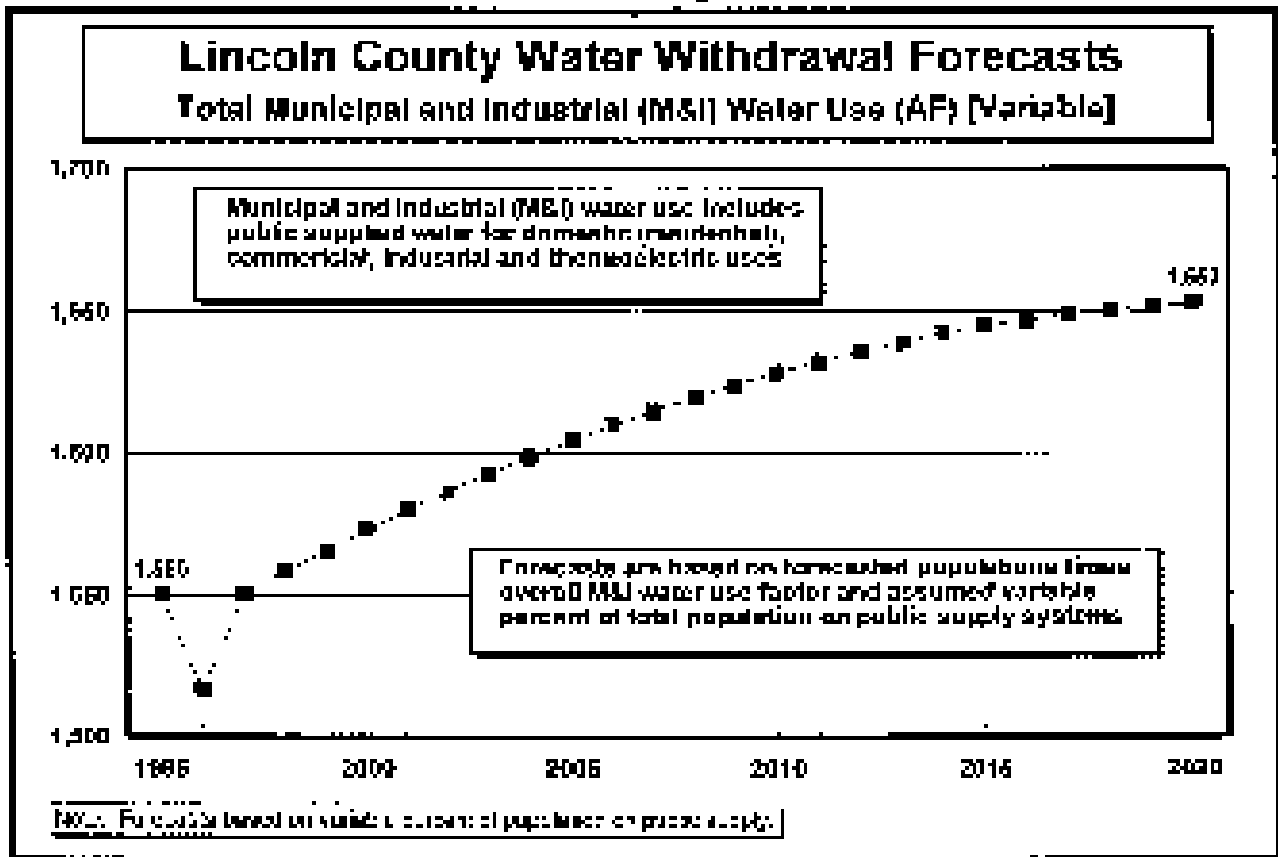


Source: Data: Nevada State Demographer, DCTR

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



Lyon County Water Withdrawal Forecasts

Part I-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year	Estimated and Forecasted Total County Population	Estimated and Forecasted Total County Employment	Employment Population Ratio	Forecasted Mining Employment	Share of Total County Employment	Forecasted Total Domestic and Commercial Water Use (1)	Forecasted Total Industrial Water Use (2)	Forecasted Total M&I Water Use (3)
1980	13,594	2,316	13.00%	100	6.10%	9,153	3,039	2,529
1981	14,160	2,353	20.00%	91	2.80%	9,220	3,320	3,061
1982	14,600	2,394	15.00%	107	6.00%	9,291	3,531	3,220
1983	15,090	2,392	13.82%	100	6.4%	9,367	3,585	3,260
1984	15,380	2,382	21.00%	100	3.88%	9,441	4,029	3,390
1985	16,160	2,409	21.50%	111	3.74%	9,523	4,361	3,529
1986	17,160	2,529	22.10%	104	2.70%	9,602	4,823	3,710
1987	18,040	4,594	22.25%	91	2.20%	9,678	5,182	3,905
1988	19,220	4,764	24.00%	100	2.10%	9,716	6,029	4,255
1989	20,250	5,031	25.20%	112	3.35%	9,762	6,365	4,350
1990	20,590	5,285	25.50%	100	3.10%	9,791	6,624	4,451
1991	21,130	5,413	25.20%	107	2.80%	9,808	6,829	4,533
1992	22,110	5,502	24.60%	106	3.35%	9,817	6,961	4,645
1993	21,750	5,093	25.20%	100	2.65%	9,727	7,356	4,715
1994	22,500	6,504	26.60%	144	2.20%	9,880	8,224	4,801
1995	23,500	7,051	26.50%	152	2.50%	9,971	8,891	4,946
1996	24,340	7,250	25.60%	204	3.00%	10,079	9,157	5,100
1997	25,000	7,656	25.20%	170	2.40%	10,166	9,571	5,266
1998	26,409	7,940	25.20%	174	2.40%	10,210	10,029	5,395
1999	27,800	8,215	25.20%	177	2.40%	10,215	10,397	5,491
2000	29,211	8,509	25.20%	201	2.30%	10,252	10,753	5,591
2001	30,640	8,787	25.20%	201	2.30%	10,289	11,109	5,684
2002	32,093	9,065	25.20%	207	2.30%	10,327	11,465	5,779
2003	33,116	9,343	25.20%	210	2.30%	10,365	11,821	5,874
2004	34,248	9,621	25.20%	211	2.30%	10,402	12,177	5,969
2005	35,377	9,899	25.20%	215	2.30%	10,439	12,533	6,063
2006	36,499	10,215	25.20%	219	2.30%	10,476	12,889	6,158
2007	37,613	10,519	25.20%	217	2.30%	10,512	13,245	6,253
2008	38,731	10,801	25.20%	220	2.30%	10,548	13,601	6,348
2009	39,405	11,079	25.20%	221	2.30%	10,584	13,957	6,443
2010	40,473	11,353	25.20%	223	2.30%	10,619	14,313	6,538
2011	41,541	11,623	25.20%	223	2.30%	10,654	14,669	6,633
2012	42,566	11,867	25.20%	224	2.30%	10,689	15,025	6,728
2013	43,596	12,116	25.20%	224	2.30%	10,724	15,381	6,823
2014	44,705	12,390	25.20%	223	2.30%	10,759	15,737	6,918
2015	45,794	12,673	25.20%	223	2.30%	10,794	16,093	7,013
2016	46,835	12,961	25.20%	223	2.30%	10,829	16,449	7,108
2017	47,920	13,218	25.20%	220	2.30%	10,864	16,805	7,203
2018	49,031	13,481	25.20%	219	2.30%	10,899	17,161	7,298
2019	50,200	13,750	25.20%	217	2.30%	10,934	17,517	7,393
2020	51,375	14,031	25.20%	217	2.30%	10,969	17,873	7,488

Actual Period Average (1955-1997)..... 21.00% 2,900 Annual Average (1950-1997)
 Greater Period Average (1991-2020).... 25.00% 95,715 Forecasted Peak Period (1994-1997)

Assumptions:
 M&I Total Domestic Water Use per person... 210.0 (40) Gallons per person per day
 M&I Total Domestic Water Use per acre... 1,516.1 11,669 Acres per person per year
 Commercial & Industrial Water Use per acre... 1,355.9 1,669 Gallons per acre per day (excluding mining)
 Commercial & Industrial Water Use per acre... 1,264.0 400 Acres per acre per year (excluding mining)

Note: Domestic (M&I) consumption approximately 10% M&I water.
 (1) Population forecasts based on published percent of total population with an average birth to death differential of 0.025.
 (2) Domestic (M&I) consumption and mining water use.
 (3) Mining water use only, with supply water withdrawn (generally) commercial, residential, and farm domestic use.
 Source: Population Estimate - See Description, Population Forecast - NWR, employment - C&I, Employment Forecast - NWR

Lyon County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Foot)

Year	Forecasted Population on Rural Water Systems [1]	Forecasted Public Supplied Domestic Water Use [1]	Forecasted Self-Supplied Domestic Water Use [1]	Forecasted Population on Public Water Systems [2]	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [2]	Forecasted M&I Water Use [2]	
1981	22,457	2,971	163	-	-	-	-	
1981	22,972	2,033	160	-	-	-	-	
1982	23,373	2,117	155	-	-	-	-	
1983	23,713	2,136	140	-	-	-	-	
1984	24,164	2,210	139	-	-	-	-	
1985	24,709	2,236	197	-	-	-	-	
1986	25,220	2,418	200	-	-	-	-	
1987	25,801	2,659	219	-	-	-	-	
1988	26,407	2,766	210	-	-	-	-	
1989	27,049	2,921	241	-	-	-	-	
1990	27,728	3,080	240	-	-	-	-	
1991	28,447	3,249	250	-	-	-	-	
1992	29,207	3,443	284	-	-	-	-	
1993	29,997	3,676	303	-	-	-	-	
1994	30,817	3,943	314	21,194	91.6%	3,853	314	5,756
1995	31,667	4,243	317	26,794	91.63%	4,130	340	6,459
1996	32,547	4,573	363	32,830	91.69%	4,305	363	8,563
1997	33,457	4,943	377	38,859	91.69%	4,567	374	11,307
1998	34,397	5,353	393	44,891	91.70%	4,850	384	14,651
1999	35,367	5,803	403	50,920	91.72%	5,195	398	18,648
2000	36,367	6,293	417	56,954	91.73%	5,606	417	23,404
2001	37,397	6,813	430	62,992	91.73%	6,026	422	28,736
2002	38,447	7,373	447	69,030	91.73%	6,502	434	34,607
2003	39,517	7,973	463	75,068	91.73%	7,037	440	41,041
2004	40,607	8,613	471	81,116	91.73%	7,621	458	48,027
2005	41,717	9,293	483	87,164	91.73%	8,261	470	55,572
2006	42,847	10,013	492	93,212	91.73%	8,951	482	63,684
2007	44,007	10,773	511	99,259	91.81%	9,671	491	72,358
2008	45,187	11,573	524	105,307	91.83%	10,411	501	81,614
2009	46,387	12,413	537	111,355	91.85%	11,171	513	91,479
2010	47,607	13,293	552	117,402	91.86%	11,951	525	101,957
2011	48,847	14,213	562	123,449	91.87%	12,751	536	113,183
2012	50,107	15,173	571	129,497	91.88%	13,571	546	125,106
2013	51,387	16,173	584	135,544	91.89%	14,411	557	137,678
2014	52,687	17,213	597	141,591	91.90%	15,271	568	150,923
2015	54,007	18,293	608	147,637	91.90%	16,151	578	164,852
2016	55,347	19,413	616	153,684	91.91%	17,051	587	179,491
2017	56,707	20,573	624	159,730	91.91%	17,971	597	194,846
2018	58,087	21,773	631	165,776	91.91%	18,911	607	210,923
2019	59,487	23,013	638	171,822	91.91%	19,871	617	227,723

Assumptions:	M&I Factor	Evapotranspiration
M&I - Domestic Use Factor (Public supplied water)	0.100	0.130 Gallons per acre per day - public supply
Public supplied water factor (self-supplied)	0.100	0.130 Gallons per acre per day
Domestic Water Use per Acre - Self-Supplied Water	157.3	Gallons per acre per day - self-supply
Self-Supplied Water Use Coefficient	0.2456	Acres Set per acre per year

1995 Estimated Resident Population on Public Supply: 91,618. Percent of total resident population on Public Supply: 91.61%.

Note: 1995 is the first year of population data reported by the Nevada Department of Conservation and Forestry.

[1] Estimated water use based on a 10% percent of total resident population on public supplied water systems for the year 1995 through 2019.

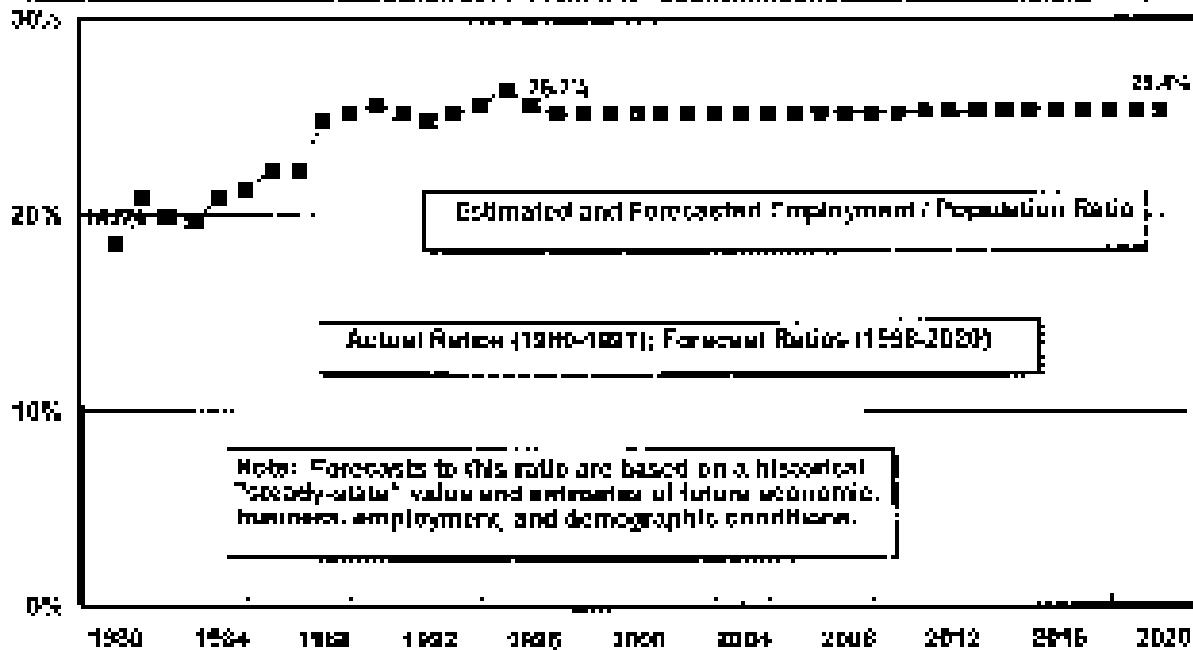
[2] M&I water use includes public supplied water for domestic, commercial, industrial and other uses.

Source: Population - Nevada State Department of Conservation and Forestry; Population - U.S. Census Bureau; M&I - Nevada Department of Conservation and Forestry.

Nevada Socioeconomic Analysis and Forecasts

Lyon County Employment-to-Population Ratios

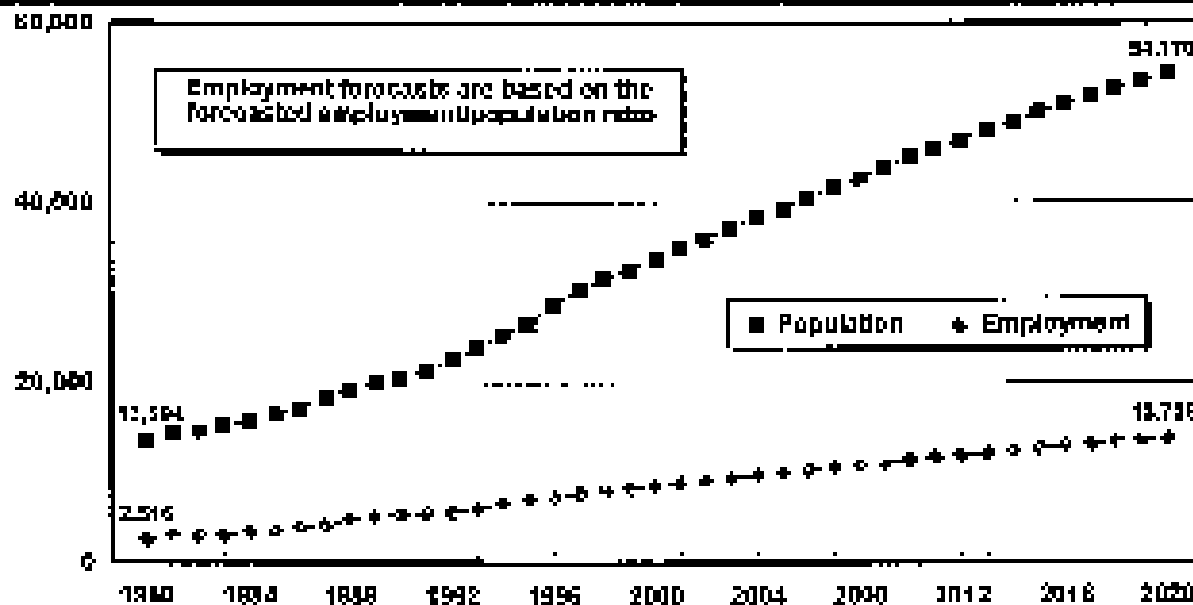
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographic DEPR

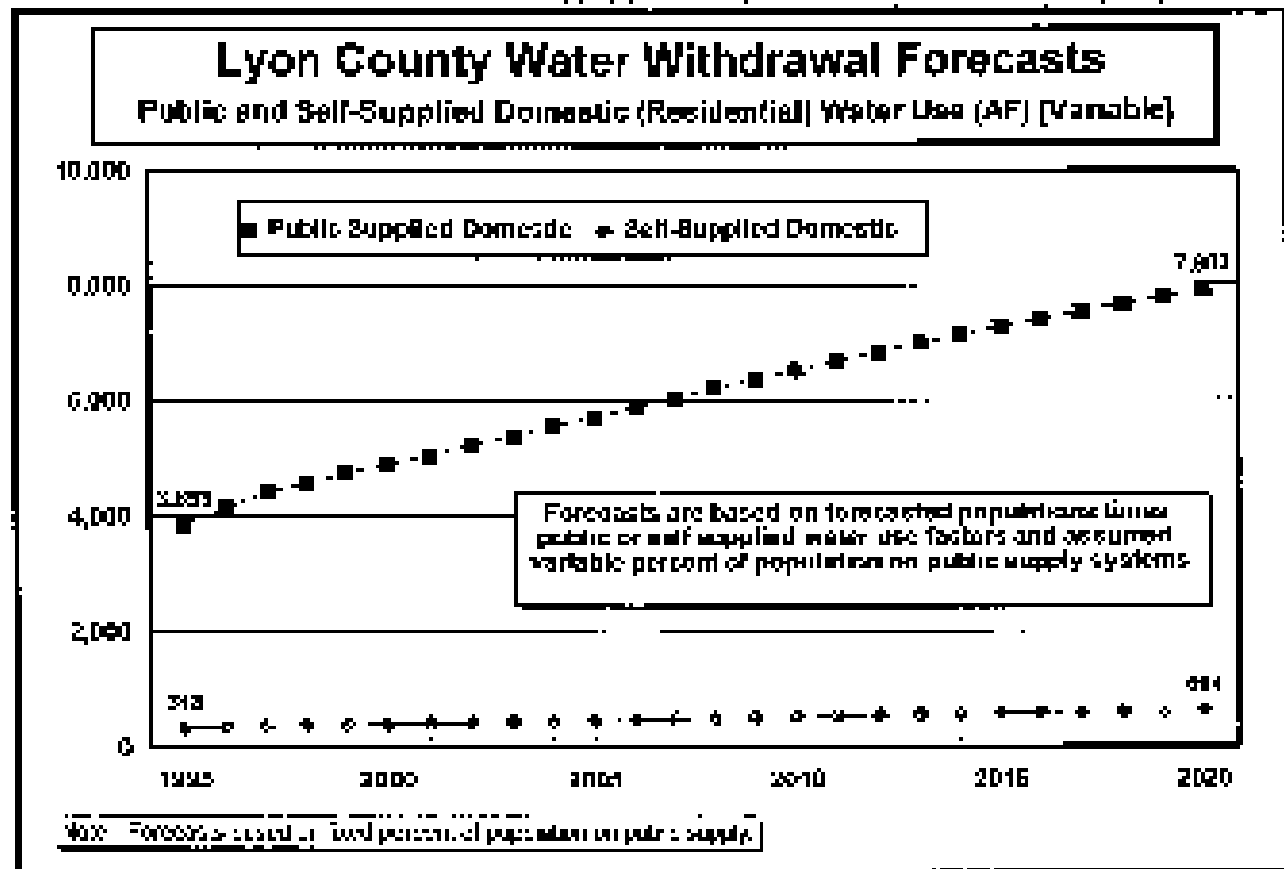
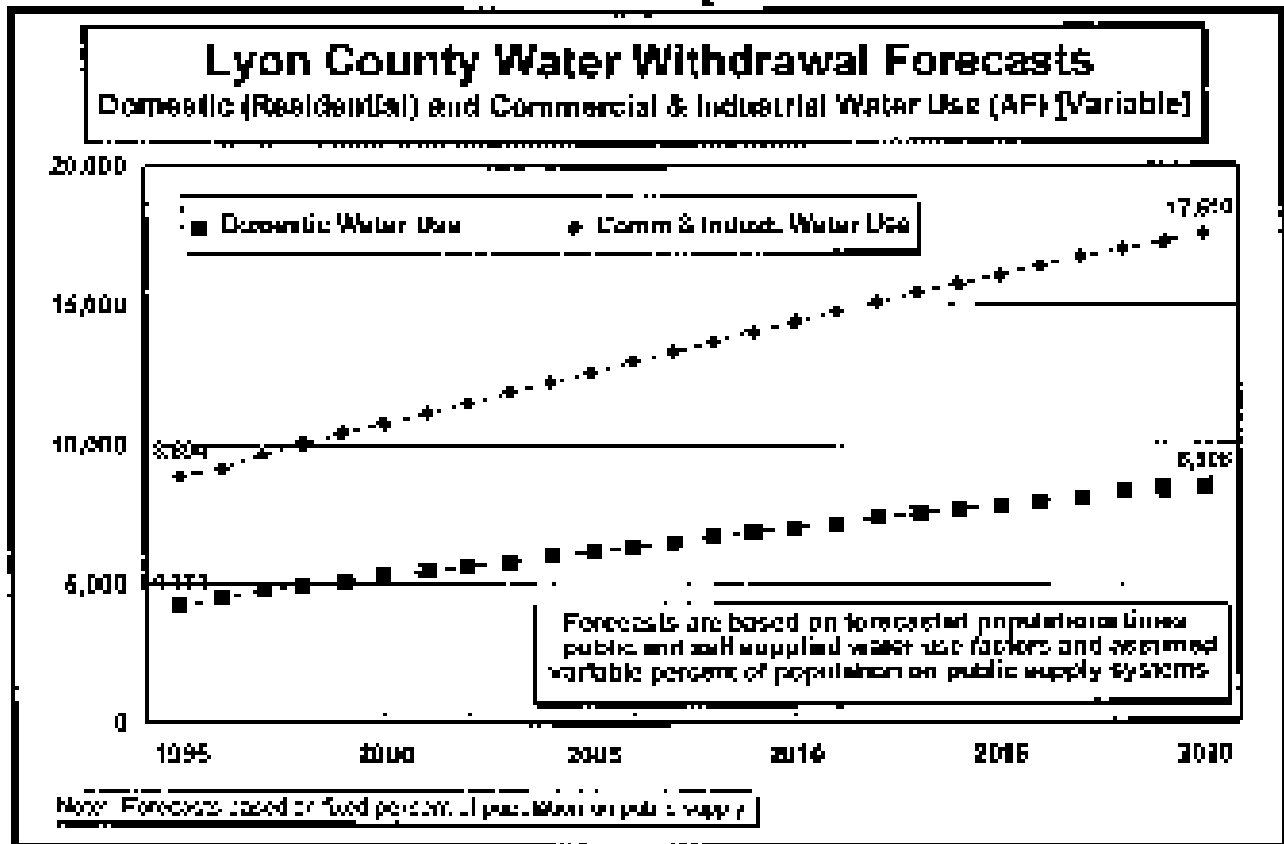
Lyon County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

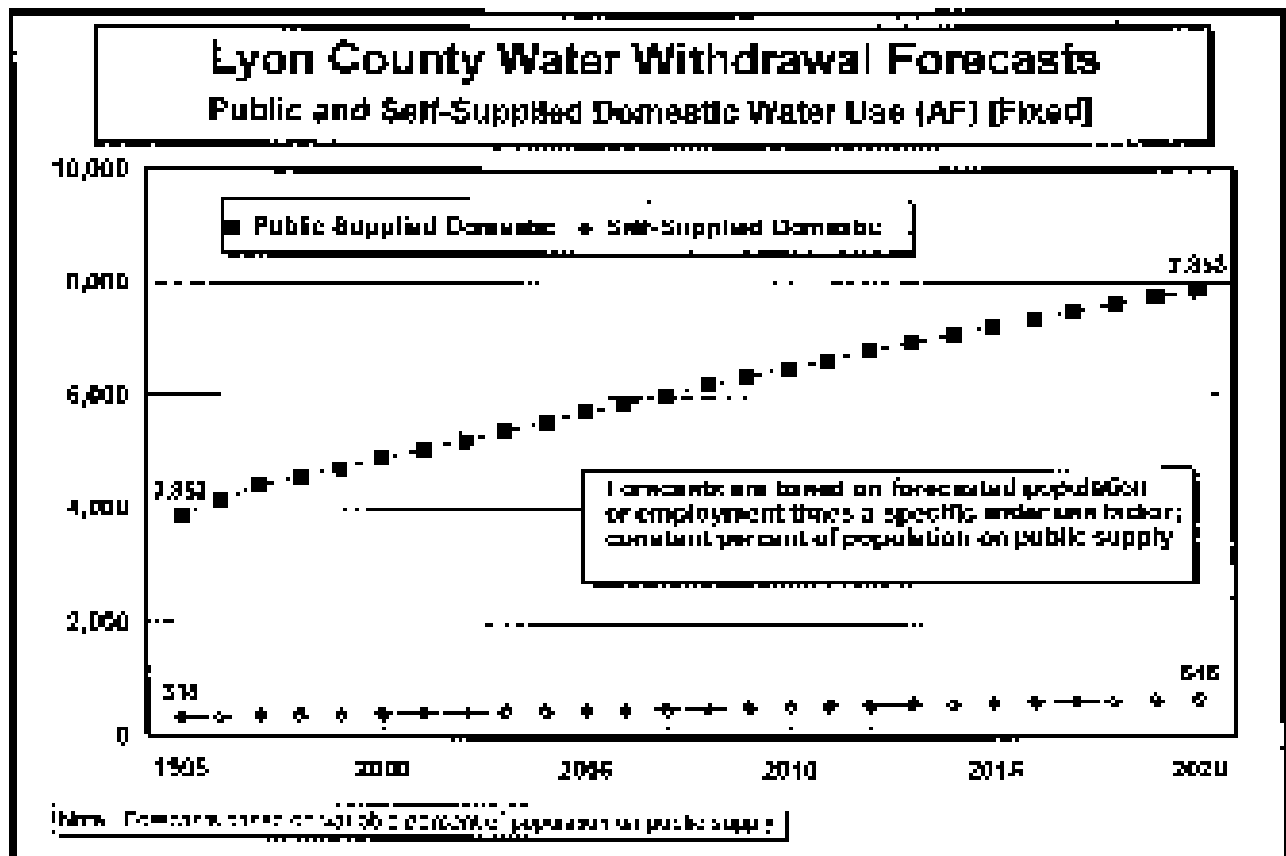
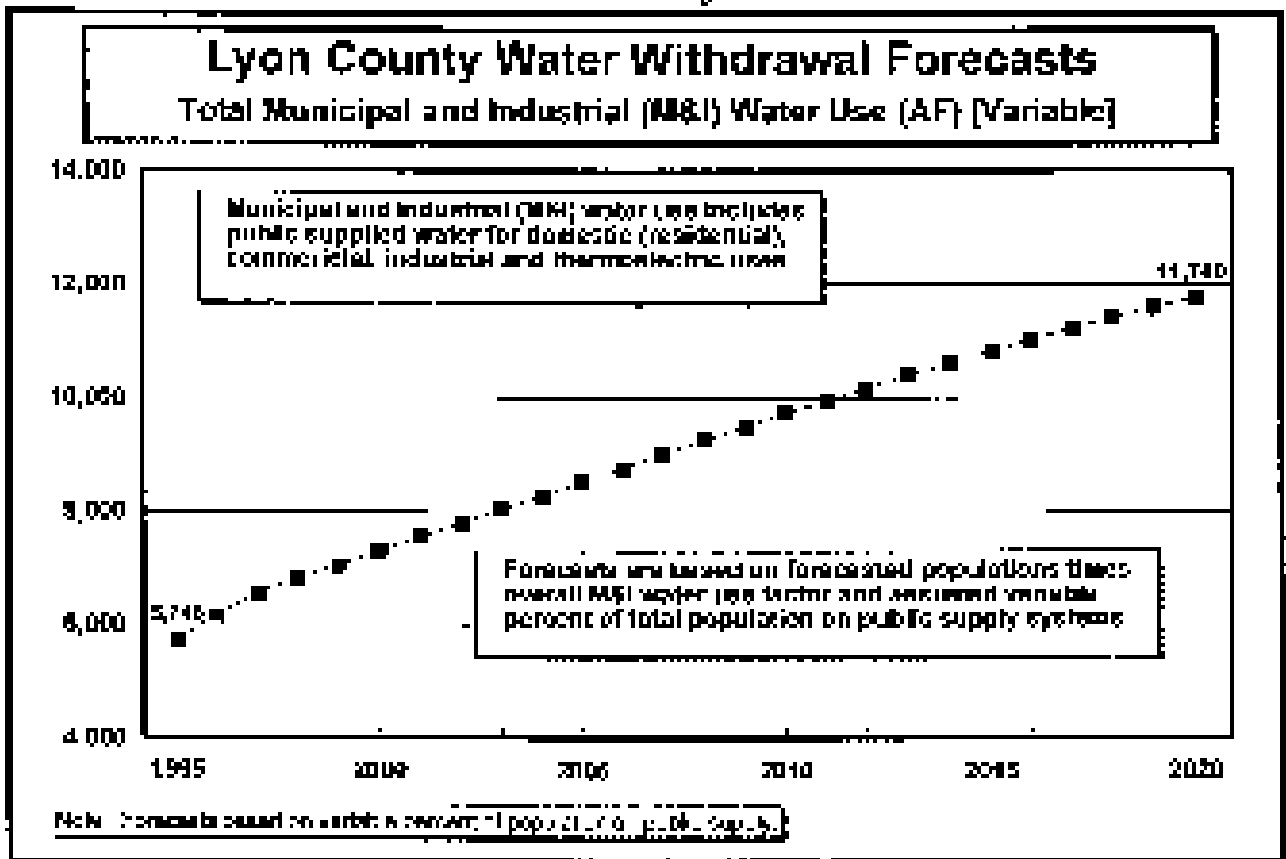


Source Data: Nevada State Demographic, DEPR

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



Mineral County Water Withdrawal Forecasts

Part 1—Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Foot)

Year:	Estimated 1994-1997 Forecast 1994-2011	Estimated Resident Population	Estimated Total (Current Employment)	Estimated Population Gain	Estimated Mining Employment	Share of Total (Current Employing)	Estimated Domestic (Residential) Water Use[1]	Estimated Commercial and Industrial Water Use[2]	Estimated Mining & Industrial Water Use
1985	6,217	2,477	18,758	134	134	0.71%	1,070	779	1,154
1986	6,219	2,497	18,956	204	204	1.07%	1,072	779	1,159
1987	6,220	2,524	19,158	133	133	0.69%	1,070	779	1,158
1988	6,209	2,557	19,360	203	203	1.05%	1,057	779	1,161
1989	6,136	2,587	19,565	265	265	1.35%	1,053	779	1,167
1990	6,130	2,588	19,567	264	264	1.35%	1,053	767	1,157
1991	6,200	2,597	19,567	270	270	1.38%	1,057	767	1,161
1992	6,270	2,598	19,618	413	413	2.10%	1,079	767	1,164
1993	6,420	2,599	19,669	404	404	2.05%	1,101	764	1,168
1994	6,460	2,612	19,673	433	433	2.20%	1,111	754	1,166
1995	6,470	2,593	19,682	408	408	2.07%	1,115	757	1,169
1996	6,460	2,541	19,633	450	450	2.29%	1,111	754	1,166
1997	6,550	2,730	19,591	407	407	2.08%	1,129	744	1,168
1998	6,510	2,627	19,648	292	292	1.49%	1,131	739	1,167
1999	6,420	2,545	19,598	277	277	1.41%	1,107	731	1,160
1999*	6,700	2,542	19,908	291	291	1.46%	1,131	737	1,173
1999**	6,670	2,497	19,638	288	288	1.47%	1,112	734	1,173
1999***	6,600	2,376	19,378	216	216	1.11%	1,090	728	1,188
1998	6,497	2,324	19,174	215	215	1.12%	1,088	725	1,191
1999	6,531	2,327	19,191	211	211	1.10%	1,09	725	1,197
2000	6,574	2,320	19,193	117	117	0.61%	1,097	726	1,207
2001	6,594	2,321	19,163	11	11	0.06%	1,203	726	1,208
2002	6,611	2,348	19,145	97	97	0.51%	1,205	726	1,211
2003	6,629	2,348	19,127	90	90	0.47%	1,217	726	1,218
2004	6,692	2,342	19,167	915	915	4.78%	1,213	724	1,222
2005	6,666	2,238	19,098	304	304	1.60%	1,219	714	1,227
2006	6,601	2,233	19,039	302	302	1.59%	1,227	714	1,231
2007	6,628	2,223	19,068	301	301	1.58%	1,236	714	1,237
2008	6,648	2,223	19,028	259	259	1.36%	1,240	714	1,238
2009	6,667	2,217	19,034	297	297	1.56%	1,245	713	1,242
2010	6,687	2,211	19,038	295	295	1.55%	1,246	713	1,245
2011	6,691	2,204	19,028	295	295	1.55%	1,248	713	1,248
2012	6,710	2,207	19,038	291	291	1.53%	1,240	713	1,250
2013	6,731	2,209	19,028	289	289	1.52%	1,242	713	1,252
2014	6,713	2,207	19,018	287	287	1.51%	1,244	713	1,254
2015	6,741	2,202	19,018	287	287	1.51%	1,246	713	1,256
2016	6,764	2,201	19,018	289	289	1.52%	1,247	713	1,257
2017	6,784	2,204	19,018	289	289	1.52%	1,248	713	1,258
2018	6,808	2,204	19,018	289	289	1.52%	1,249	713	1,259
2019	6,831	2,203	19,018	289	289	1.52%	1,249	713	1,260
2020	6,852	2,202	19,018	289	289	1.52%	1,249	713	1,260

Actual Period Average (1980-1997): ... 38.58% 1.31% Standard Deviation (1980-1997)

Forecast Period Average (1998-2020): ... 38.58% 2.078% Total (Forecast) Stable Period (1998-1997)

Assumptions: M&I Factor Termohydrology

[1] M&I Total Domestic Water Use per Person 211.7 153.8 Gallons per person per day

[2] M&I Total Domestic Water Use per acre 6027.1 61.48 Gallons per acre per day

Commercial & Industrial Water Use per Acre 176.2 Gallons per acre per day (excludes mining)

[3] Commercial & Industrial Water Use Use Person 11.123 Gallons per person per day (excludes mining)

Note: One acre-foot (Acre-ft) is equivalent to approximately 325,851 gallons

[4] Domestic water use is based on current population and number of people applying water. See Part 2 for rainfall.

[5] Excludes all irrigated agricultural and mining water uses.

[6] M&I sector includes (1) on-farm supplied water for domestic use (night, space, etc.) and (2) on-farm and termohydrology use.

Source: Population estimates—State Demographic ; Population Estimate—M&IAP; Employment—M&I; Domestic Use—M&IAP.

Mineral County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acre-Feet)

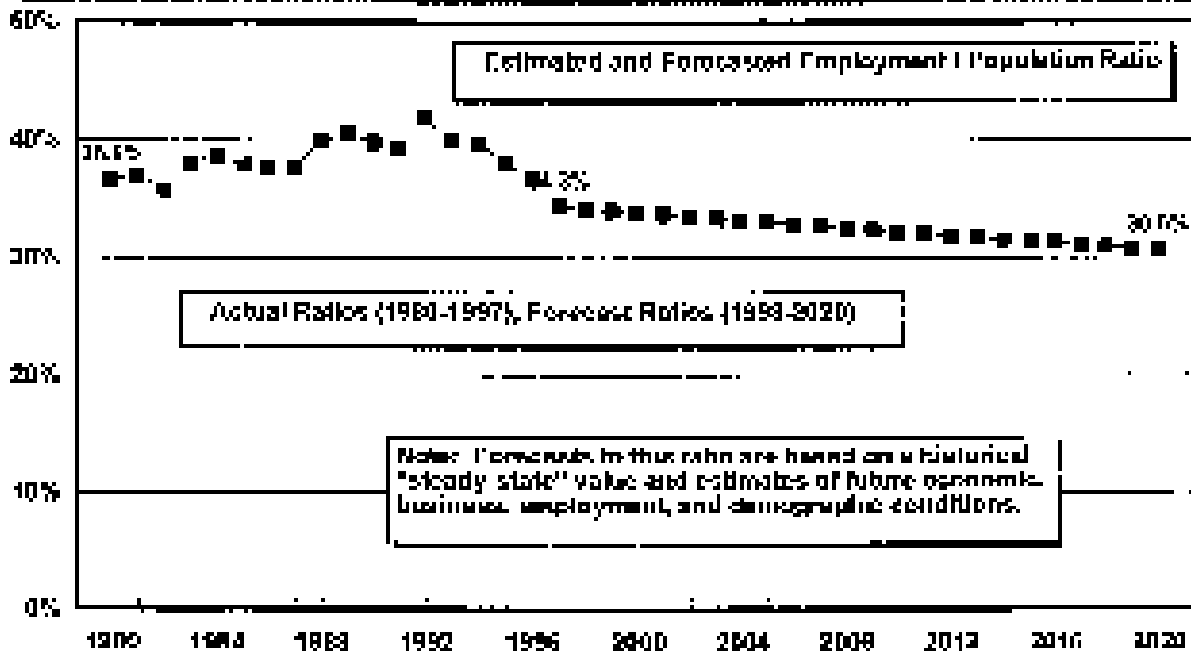
Year: Annual Forecast 1999-2020	Forecasted Population on Public Water System (1)	Forecasted Public Supplied Domestic Water Use (2)	Forecasted Self-Supplied Domestic Water Use (3)	Forecasted Population on Public Water Systems (4)	Variable Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use (5)	Forecasted Self-Supplied Domestic Water Use (6)	Forecasted Total Domestic Water Use (7) (8)+(9)
1999	4,910	863	107	--	--	--	--	--
1998	4,940	865	209	--	--	--	--	--
1997	4,912	863	209	--	--	--	--	--
1996	4,906	862	206	--	--	--	--	--
1995	4,582	843	209	--	--	--	--	--
1994	4,687	854	202	--	--	--	--	--
1993	4,694	860	203	--	--	--	--	--
1992	4,953	875	203	--	--	--	--	--
1991	5,254	885	213	--	--	--	--	--
1990	5,101	896	214	--	--	--	--	--
1989	5,109	898	214	--	--	--	--	--
1988	5,101	894	217	--	--	--	--	--
1987	5,140	910	213	--	--	--	--	--
1986	5,141	903	217	--	--	--	--	--
1985	5,022	887	213	--	--	--	--	--
1984	5,251	890	213	499	78.03%	930	220	1,249
1983	5,378	945	217	5,169	88.99%	945	226	1,271
1982	5,477	972	228	5,470	90.18%	972	228	1,285
1981	5,514	956	229	5,437	79.03%	947	229	1,291
1980	5,358	951	220	5,474	79.07%	949	210	1,288
1979	5,192	965	221	5,499	79.07%	956	210	1,303
1978	5,515	969	222	5,523	79.09%	971	211	1,309
1977	5,527	973	223	5,546	79.11%	975	212	1,314
1976	5,557	977	214	5,569	79.13%	979	212	1,311
1975	5,277	980	214	5,590	79.16%	982	213	1,314
1974	5,396	983	214	5,611	79.18%	986	214	1,323
1973	5,513	986	217	5,628	79.19%	989	214	1,334
1972	5,594	989	217	5,646	79.21%	991	215	1,333
1971	5,574	992	218	5,665	79.23%	994	215	1,343
1970	5,668	994	218	5,678	79.25%	996	215	1,343
2010	5,573	997	219	5,673	79.27%	1,010	216	1,346
2011	5,495	997	219	5,696	79.29%	1,003	216	1,343
2012	5,693	1,010	219	5,718	79.31%	1,005	216	1,331
2013	5,703	1,013	219	5,735	79.33%	1,007	216	1,337
2014	5,714	1,014	211	5,753	79.34%	1,008	216	1,329
2015	5,718	1,017	211	5,772	79.37%	1,011	216	1,342
2016	5,727	1,016	211	5,784	79.38%	1,011	216	1,342
2017	5,728	1,017	211	5,785	79.42%	1,012	216	1,344
2018	5,722	1,017	212	5,783	79.43%	1,013	216	1,353
2019	5,724	1,018	212	5,786	79.43%	1,014	216	1,356
2020	5,733	1,018	212	5,791	79.43%	1,014	216	1,356

Assumptions:
 M&I Domestic Use Per Acre (Public Supplied Water) 211.7 Gallons per acre per year per acre-ft of water
 Public Supplied Water Use Coefficient 0.1077 Percent per acre-ft of water
 Domestic Water Use per Farmer - Self-Supplied Water 141.3 Gallons per person per acre-ft of water
 Self-Supplied Water Use Coefficient 0.1285 Acre-ft per person per year
 1999 Domestic Demand Population on Public Supply 28,373% Percent of total resident population
 Note: Forecasts from 2010 to 2020 are based on the assumption that the population growth rate is constant at the 1999-2009 rate.
 1) Forecasted Population on Public Supply is based on the forecasted population on public supply from 1999 to 2009, plus the forecasted population growth rate from 2010 to 2020.
 2) Forecasted Public Supplied Domestic Water Use is based on the forecasted population on public supply from 1999 to 2009, plus the forecasted population growth rate from 2010 to 2020.
 3) M&I Domestic Use Per Acre is based on the forecasted population on public supply from 1999 to 2009, plus the forecasted population growth rate from 2010 to 2020.
 4) Self-Supplied Water Use Coefficient is based on the forecasted population on public supply from 1999 to 2009, plus the forecasted population growth rate from 2010 to 2020.

Nevada Socioeconomic Analysis and Forecasts

Mineral County Employment-to-Population Ratios

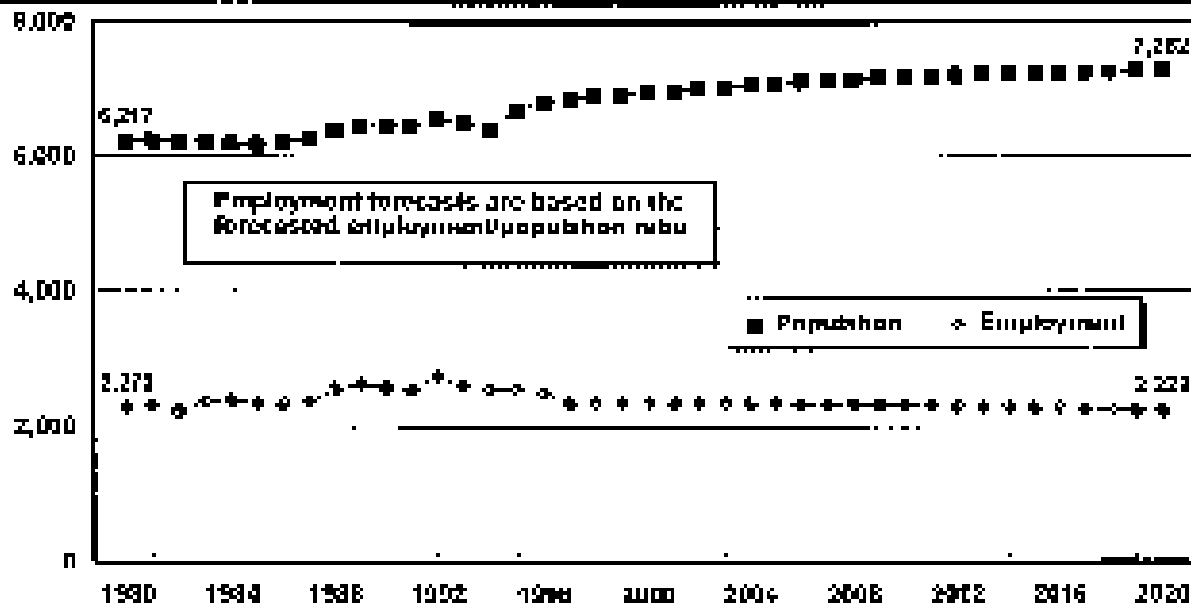
Ratio of Total Covered Employment to Total Population (Percent)



Source: B7D Nevada State Department of Economic Development

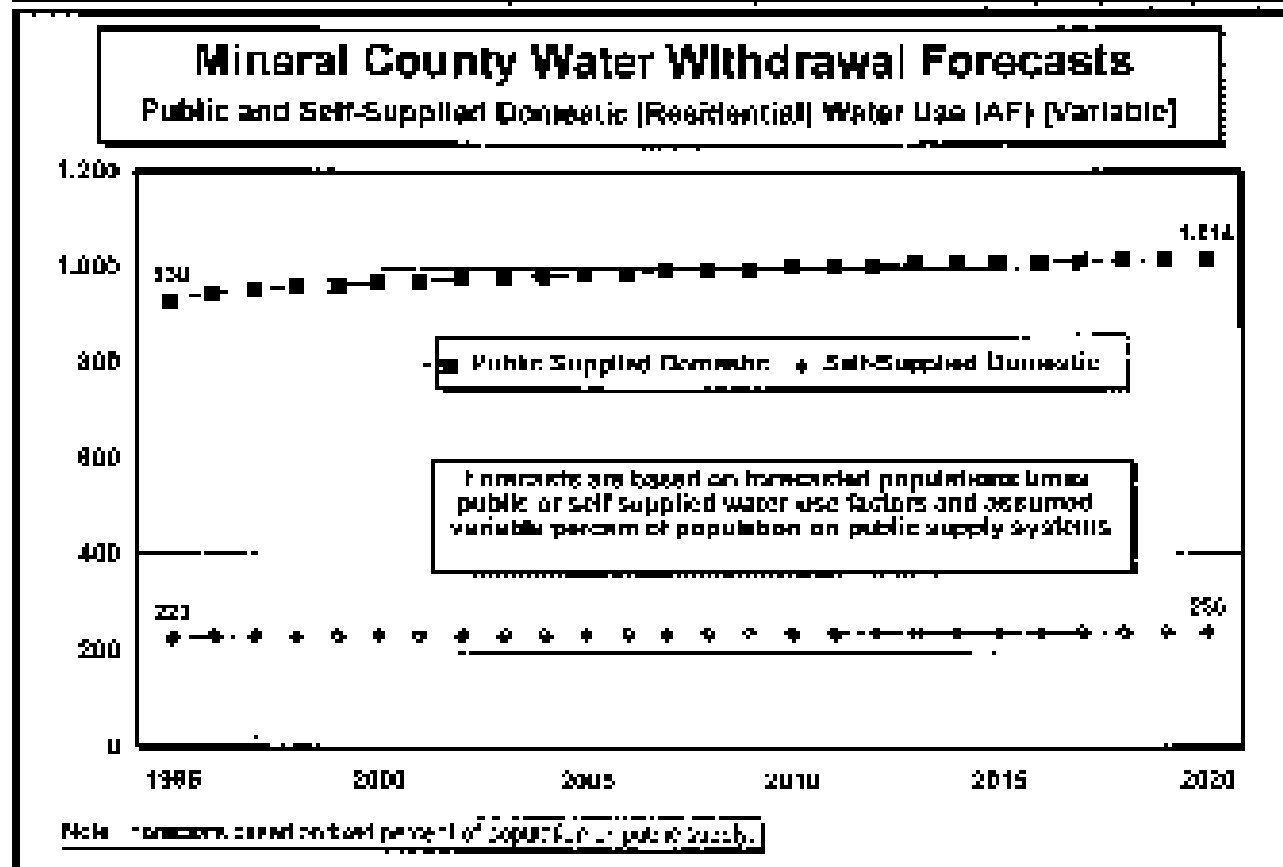
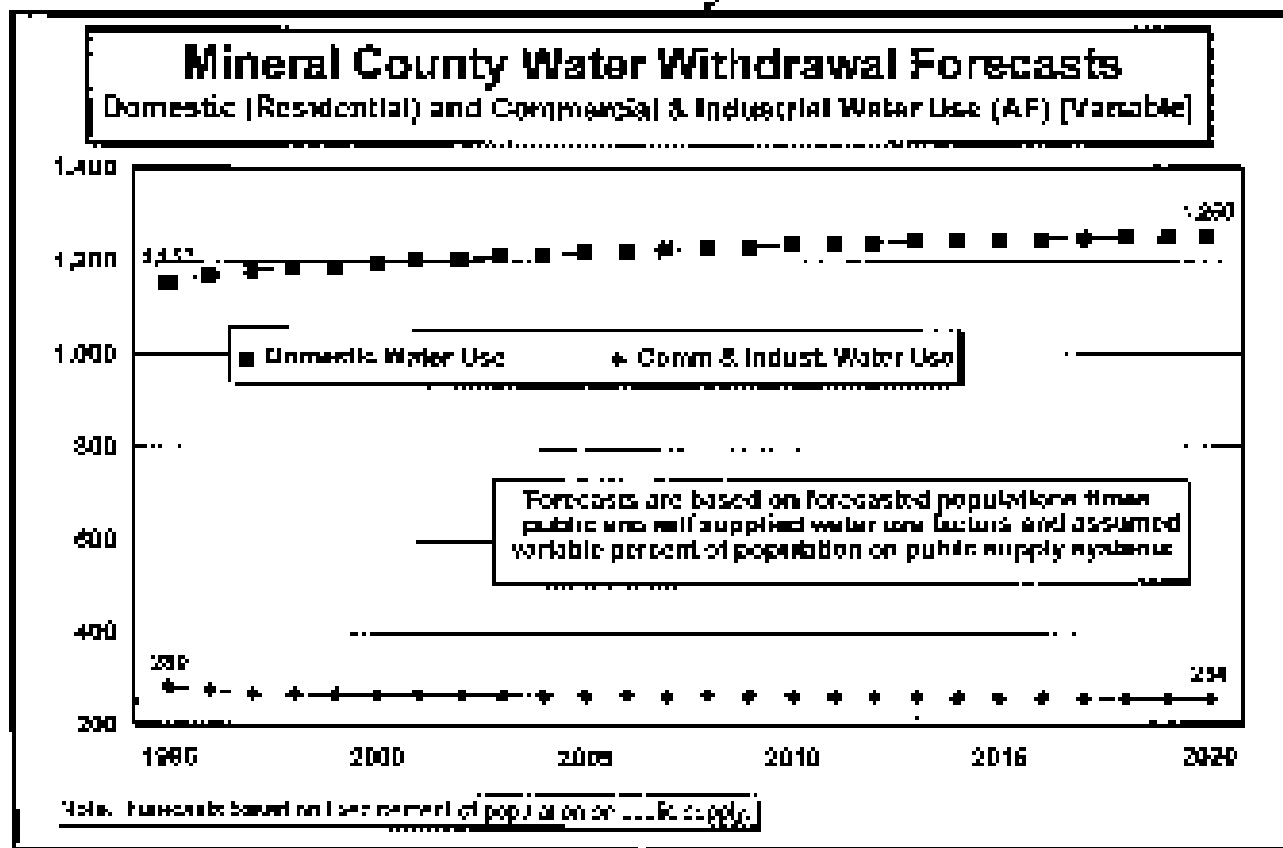
Mineral County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)



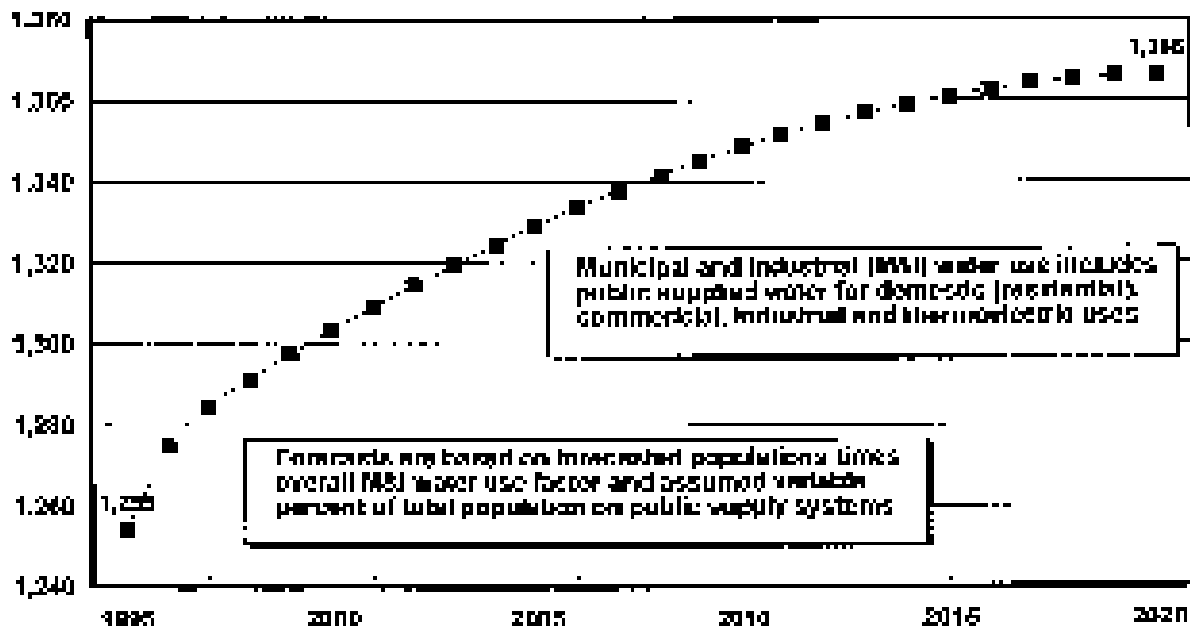
Source: Data Nevada State Department of Economic Development

Nevada Water Use Analysis and Forecasts-1



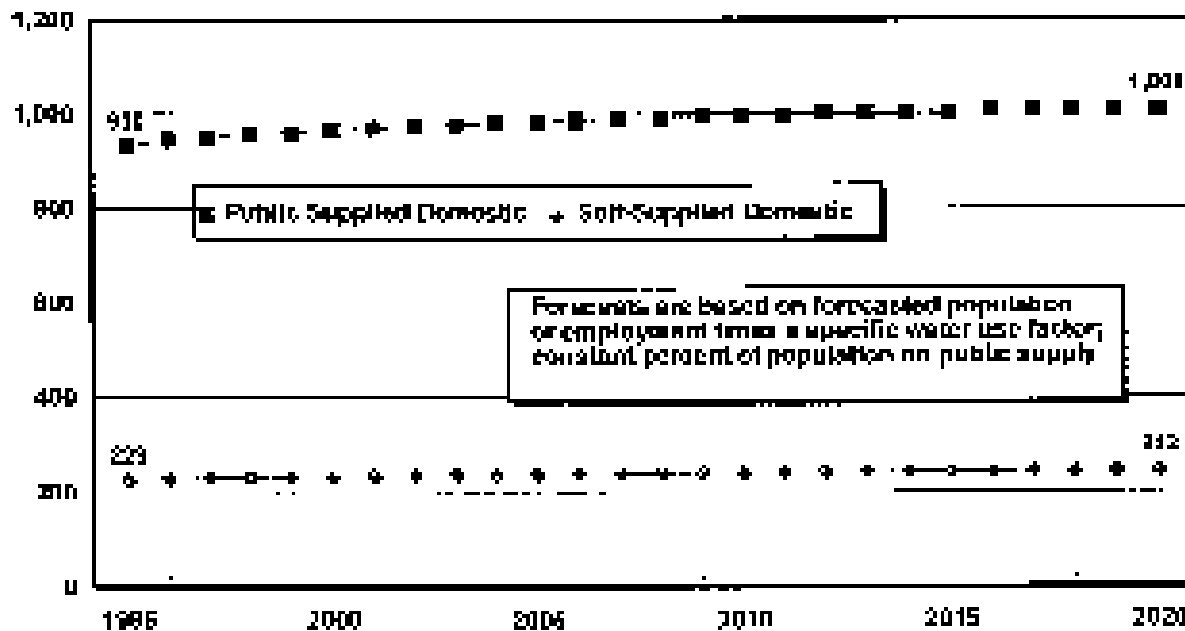
Nevada Water Use Analysis and Forecasts-2

Mineral County Water Withdrawal Forecasts Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

Mineral County Water Withdrawal Forecasts Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Nye County Water Withdrawal Forecasts

Part 1 Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year	Annual Estimated Resident Population	Estimated Total County Employment	Estimated County Population Ratio	Estimated Total County Employment	Share of Total County Employment	Forecasted Total Domestic (Household & Commercial) Water Use [1]	Forecasted Total Commercial and Industrial Water Use [2]	Forecasted Total M&I Water Use
1980	9,048	4,731	75.74%	1,254	15.57%	1,254	520	2,403
1981	11,002	5,959	77.30%	1,510	16.55%	1,510	415	2,924
1982	12,040	7,659	66.87%	1,754	16.51%	1,754	488	3,465
1983	12,480	8,613	61.89%	1,910	17.10%	1,910	513	3,883
1984	14,370	9,154	60.87%	1,972	17.19%	1,972	644	3,873
1985	14,370	9,983	67.15%	2,211	19.07%	1,972	969	3,873
1986	14,680	9,994	67.40%	2,412	19.07%	1,972	969	3,902
1987	15,200	10,119	66.87%	1,731	11.87%	1,972	971	4,041
1988	15,760	11,681	64.91%	1,557	10.17%	1,972	1,016	4,187
1989	17,540	11,531	65.70%	1,907	16.48%	4,400	1,052	4,662
1990	18,100	11,231	62.03%	1,919	17.07%	4,366	1,010	4,883
1991	19,110	12,361	64.67%	1,671	13.51%	4,366	1,005	5,030
1992	20,030	12,221	61.01%	1,751	14.48%	4,691	933	5,335
1993	20,550	1,752	50.99%	1,951	14.41%	4,738	816	5,463
1994	20,720	1,734	49.36%	1,116	11.86%	4,901	797	5,993
1995	21,050	1,406	38.86%	1,286	15.25%	5,282	734	6,127
1996	21,210	1,290	31.24%	1,315	16.20%	6,250	754	6,779
1997	21,610	1,543	31.32%	1,353	11.56%	6,250	795	7,279
1998	21,640	1,972	31.50%	1,368	13.42%	7,254	826	7,671
1999	21,755	2,106	31.23%	1,411	13.16%	7,401	850	7,910
2000	21,817	2,053	31.27%	1,422	14.80%	7,739	890	8,146
2001	21,913	2,062	31.23%	1,431	14.56%	8,012	927	8,440
2002	22,941	1,697	31.22%	1,458	14.20%	8,392	951	8,741
2003	24,059	1,671	31.13%	1,453	11.90%	8,749	995	9,015
2004	25,122	1,917	31.15%	1,495	12.60%	8,817	1,025	9,338
2005	26,181	1,385	31.12%	1,505	12.15%	9,161	1,063	9,618
2006	27,221	1,530	31.12%	1,517	12.09%	9,512	1,096	9,904
2007	28,244	1,839	31.05%	1,517	12.28%	9,861	1,132	10,166
2008	29,248	2,192	31.05%	1,515	12.44%	9,861	1,162	10,453
2009	30,250	2,428	31.04%	1,515	12.44%	10,001	1,195	10,694
2010	31,255	2,773	31.02%	1,515	12.84%	10,337	1,228	10,963
2011	32,212	3,052	30.92%	1,510	12.84%	10,570	1,257	11,194
2012	33,507	3,320	30.91%	1,510	12.84%	10,754	1,287	11,352
2013	34,967	3,576	30.93%	1,483	10.95%	11,010	1,316	11,761
2014	36,381	3,820	30.93%	1,471	10.65%	11,217	1,345	11,878
2015	37,471	4,151	30.90%	1,456	10.35%	11,413	1,373	12,067
2016	38,310	4,749	30.85%	1,436	10.08%	11,596	1,399	12,294
2017	38,911	4,977	30.80%	1,412	9.70%	11,772	1,415	12,466
2018	39,345	4,681	30.83%	1,387	9.40%	11,917	1,435	12,652
2019	41,141	4,312	30.81%	1,359	9.10%	12,011	1,461	12,793
2020	42,684	4,043	30.19%	1,328	8.80%	12,119	1,488	12,941

Annual Period Average (1980-1990): 27,103 13.11% Standard Deviation (1980-1990)
 Annual Period Average (1990-2020): 31,015 35.12% Linear/Most Stable Period (1980-1990)

Assumptions:
 M&I Total Domestic Water Withdrawal Rate: 147.7 Gallons per person per day
 (M&I) Total Domestic Water Use (Commercial): 1,3895 Acre Feet per person per year
 Commercial & Industrial Water Use per Worker: 67.3 Gallons per worker per day (excluding morning)
 (Commercial & Industrial) Water Use (Commercial): 6,560 Acre feet per worker per year (excluding morning)

Note: The non-forecasted population is a sum of the 2010 population and the projected population based on the 2010-2020 population growth rate.
 [1] Estimated on the basis of current trends of total water use, population (city or public supply) withdrawals. See Part 2 of this table.
 [2] Excludes mining, employment and mining water use.
 [3] M&I water use is not applicable, supply water for domestic, commercial, industrial and institutional use.
 Source: Population and Census Data; Geographic Statistics; Census Bureau - M&I, commercial - M&I, employment - Census, M&I.

Nye County Water Withdrawal Forecasts

Part 1-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year/Actual Forecast: 1986-2016	Forecasted Population on Public Water Systems [1]	Forecasted Public Supplied Domestic Water Use [1]	Forecasted Self-Supplied Domestic Water Use [1]	Forecasted Public Water System Population [2]	Forecasted Per Capita Public Supply	Forecasted Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [2]	Forecasted Municipal & Industrial (MS&I) Water Use [3]
1980	6,175	1,631	670	--	--	--	--	--
1981	7,327	1,948	838	--	--	--	--	--
1982	8,879	2,307	956	--	--	--	--	--
1983	9,159	2,389	959	--	--	--	--	--
1984	9,940	2,577	1,050	--	--	--	--	--
1985	9,940	2,577	1,050	--	--	--	--	--
1986	10,028	2,597	1,068	--	--	--	--	--
1987	10,375	2,687	1,116	--	--	--	--	--
1988	10,755	2,789	1,169	--	--	--	--	--
1989	11,140	2,903	1,220	--	--	--	--	--
1990	11,517	3,018	1,274	--	--	--	--	--
1991	12,011	3,188	1,330	--	--	--	--	--
1992	13,726	3,352	1,408	--	--	--	--	--
1993	14,034	3,439	1,447	--	--	--	--	--
1994	14,140	3,466	1,459	--	--	--	--	--
1995	15,350	4,109	1,700	15,350	68.19%	4,109	1,708	6,127
1996	16,526	4,467	1,870	17,229	68.20%	4,746	1,869	6,911
1997	18,477	4,894	2,041	18,851	68.28%	5,066	2,047	7,617
1998	19,572	5,272	2,127	19,587	68.26%	5,077	2,127	7,633
1999	20,306	5,263	2,207	20,326	68.31%	5,269	2,200	7,915
2000	21,042	5,434	2,287	21,068	68.35%	5,461	2,279	8,200
2001	21,775	5,645	2,366	21,811	68.37%	5,654	2,357	8,492
2002	22,514	5,836	2,445	22,550	68.38%	5,846	2,437	8,788
2003	23,243	6,006	2,524	23,282	68.38%	6,039	2,518	9,087
2004	23,977	6,217	2,603	24,026	68.38%	6,231	2,599	9,387
2005	24,711	6,400	2,682	24,755	68.31%	6,423	2,680	9,694
2006	25,403	6,584	2,759	25,431	68.35%	6,602	2,742	9,997
2007	26,099	6,783	2,834	26,128	68.47%	6,783	2,816	10,297
2008	26,784	6,943	2,908	26,871	68.47%	6,963	2,888	10,456
2009	27,454	7,116	2,981	27,550	68.48%	7,141	2,959	10,719
2010	28,106	7,283	3,054	28,241	68.49%	7,313	3,029	10,975
2011	28,738	7,449	3,127	28,835	68.51%	7,479	3,094	11,224
2012	29,349	7,608	3,197	29,434	68.52%	7,639	3,158	11,468
2013	29,935	7,750	3,251	29,971	68.55%	7,797	3,219	11,696
2014	30,497	7,905	3,311	30,642	68.57%	7,943	3,278	11,917
2015	31,031	8,044	3,369	31,166	68.58%	8,084	3,330	12,126
2016	31,535	8,174	3,424	31,701	68.60%	8,217	3,382	12,327
2017	32,008	8,299	3,476	32,185	68.61%	8,347	3,434	12,514
2018	32,448	8,411	3,523	32,673	68.64%	8,469	3,485	12,688
2019	32,847	8,516	3,567	33,122	68.65%	8,597	3,531	12,849
2020	33,217	8,612	3,608	33,432	68.67%	8,720	3,579	12,999

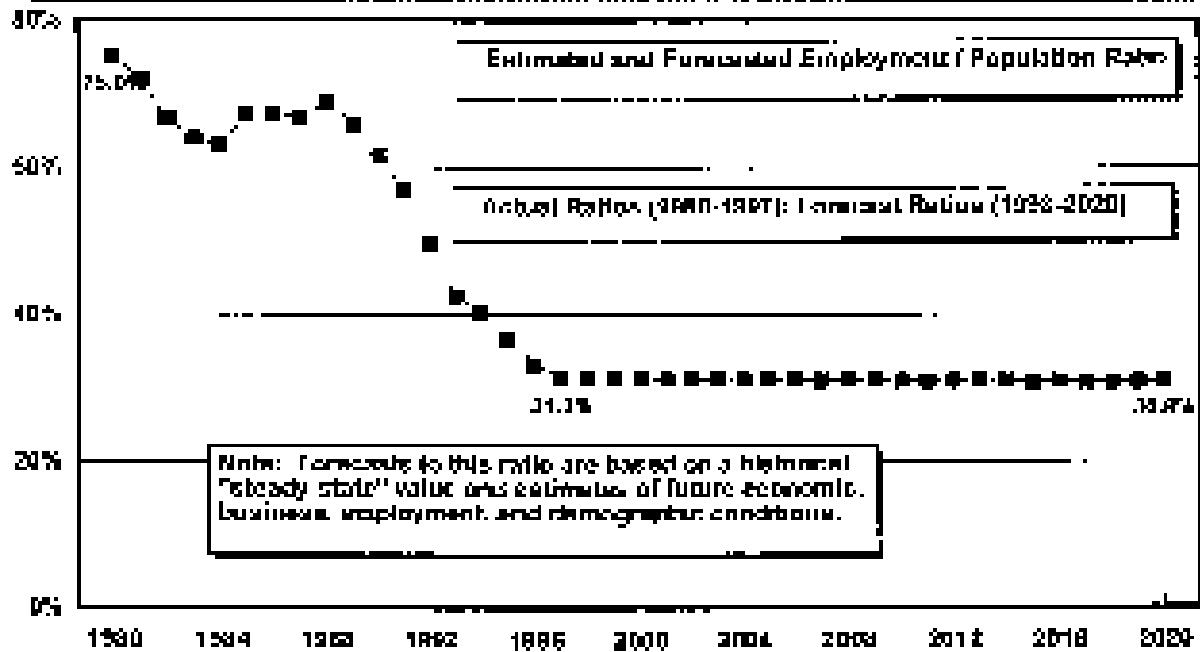
Assumptions:	MS&I Factor:	Conservative:
MS&I Domestic Consumption (Urban) Significant	0.177	0.174
[1] Public Supplied Domestic Water Use (Acre-Feet)	0.548*	0.552
Domestic Water Use per Person - Self-Supplied Water	288.3	Gallons per person per day-well supply
[Self-Supplied Water Use (Acre-Feet)]	0.2331	Assumed per person per day
1995 Collected Resident Population on Public Supply	68.24%	Percent of total resident population

- Note: One-to-one (1:1) comparison is approximately 282, 281 gal/day
- [1] Population forecasts are based on a constant percent of total resident population for years on public supplied water systems.
- [2] Estimated forecast is based on a constant percent of total resident population on public supplied water systems for the years 1995 through 2020.
- [3] MS&I factor includes public supply for domestic, industrial, commercial, residential, and treated domestic use.
- Source: Department of Water, Planning/Forecasting Analysis and Forecasts

Nevada Socioeconomic Analysis and Forecasts

Nye County Employment-to-Population Ratios

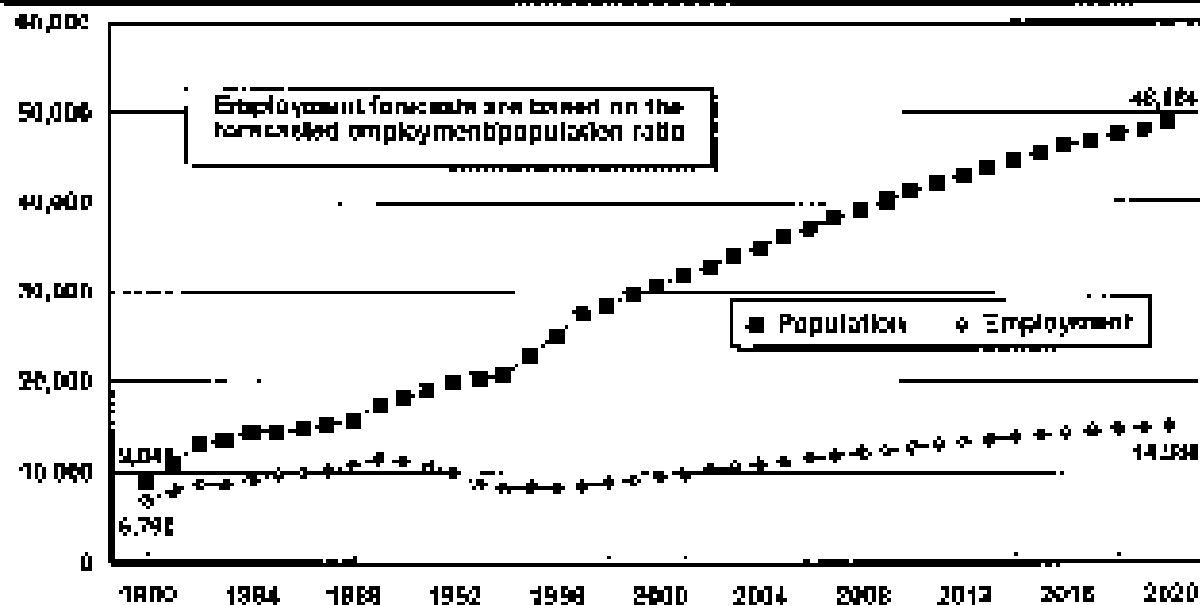
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographic Center (NSDC)

Nye County Population & Employment Forecasts

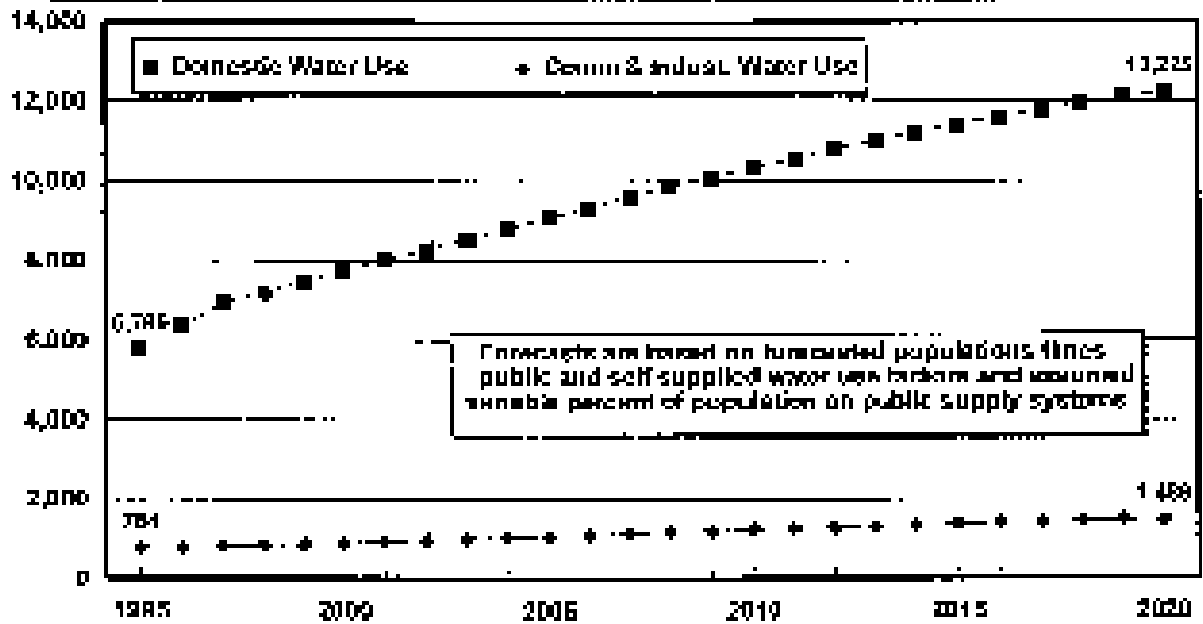
Total Population (Persons) and Total Covered Employment (Workers)



Source Data: Nevada State Demographic Center (NSDC)

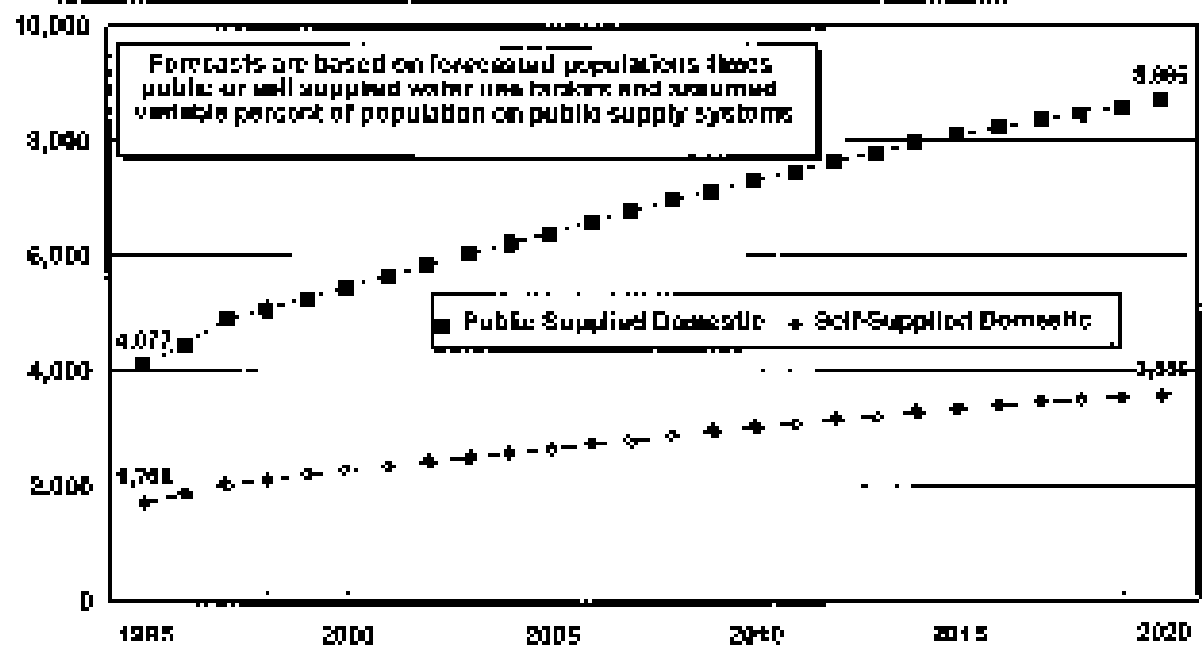
Nevada Water Use Analysis and Forecasts-1

Nye County Water Withdrawal Forecasts Domestic (Residential) and Commercial & Industrial Water Use (AF) (Variable)



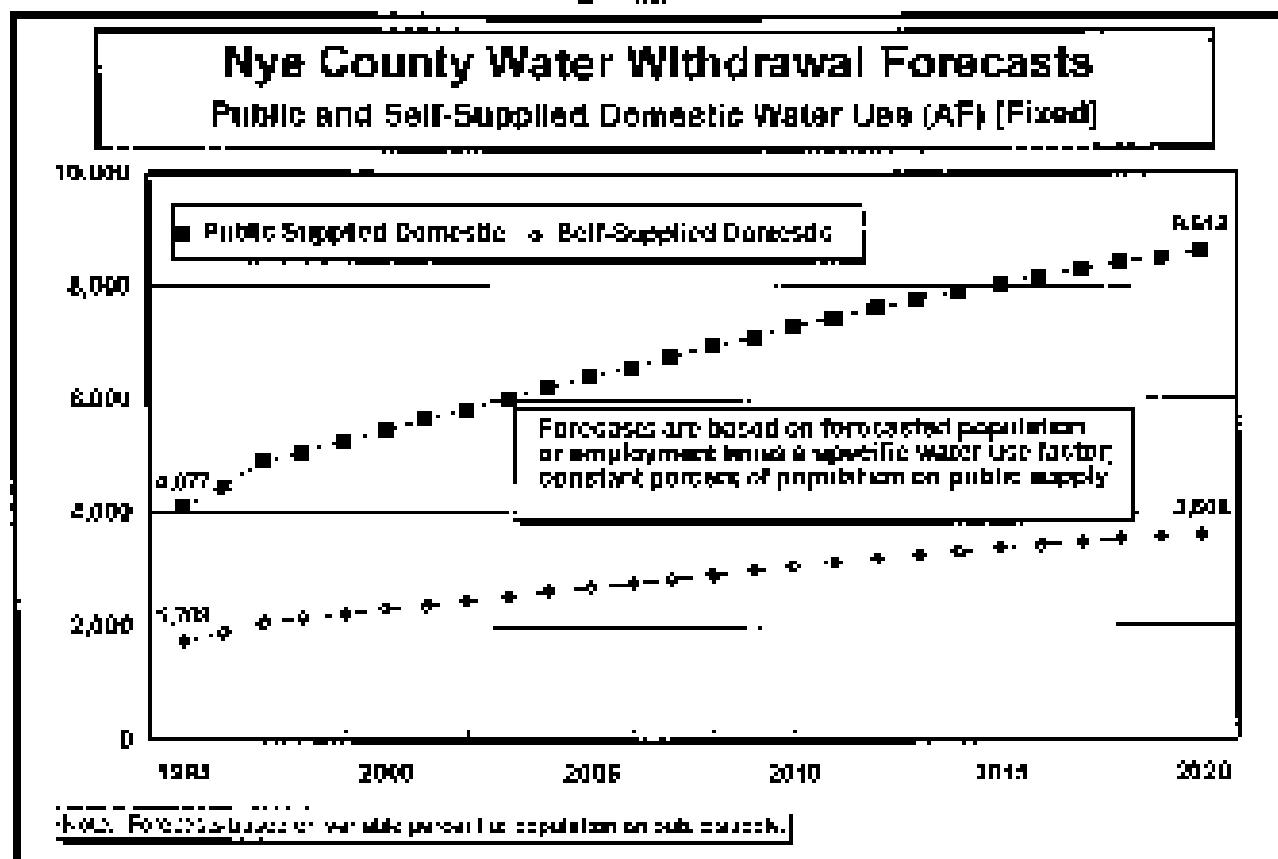
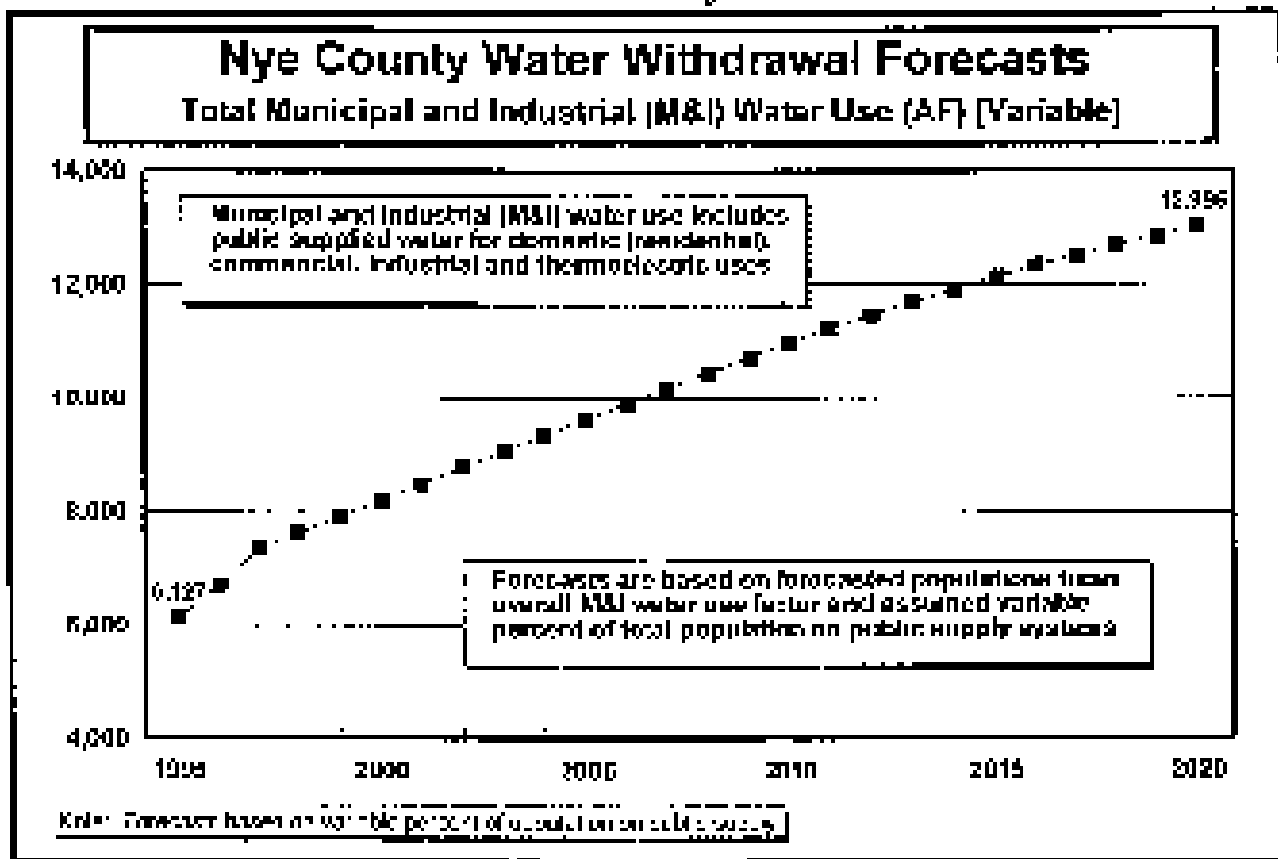
Note: Forecasts based on fixed percent of population on public supply.

Nye County Water Withdrawal Forecasts Public and Self-Supplied Domestic (Residential) Water Use (AF) (Variable)



Note: Forecasts based on fixed percent of population on public supply.

Nevada Water Use Analysis and Forecasts-2



Pershing County Water Withdrawal Forecasts

Part I—Domestic, Commercial & Industrial M&I Water Use Estimates/Forecasts (Acre-Foot)

Year (Actual Forecasts 1994-2018)	Forecasted Rural Population	Forecasted Total Covered Employment	Employment/Population Ratio	Forecasted Mining Employment	Share of Total Covered Employment	Forecasted Local Domestic (Residential) Water Use [1]	Forecasted Commercial & Industrial Water Use [2]	Forecasted Total M&I Water Use [3]	Forecasted Municipal Water Use [4]
1991	8,506	1,343	15.55%	179	13.34%	892	382	1,274	1,274
1992	8,610	1,379	15.79%	175	12.76%	942	312	1,254	1,254
1993	8,710	1,367	15.69%	179	12.94%	971	319	1,290	1,290
1994	8,810	1,409	15.88%	229	16.46%	988	396	1,384	1,384
1995	8,910	1,469	16.37%	195	8.24%	938	301	1,239	1,239
1996	9,010	1,507	16.61%	195	8.23%	1,000	302	1,302	1,302
1997	9,110	1,510	16.58%	190	13.19%	1,073	310	1,383	1,383
1998	9,200	1,624	17.65%	264	16.19%	1,145	351	1,496	1,496
1999	9,290	1,718	18.49%	691	40.03%	1,167	356	1,523	1,523
2000	9,380	1,730	18.38%	687	39.73%	1,188	371	1,559	1,559
2001	9,470	1,718	18.14%	685	39.87%	1,217	375	1,592	1,592
2002	9,560	1,741	18.17%	661	37.96%	1,253	372	1,625	1,625
2003	9,650	1,719	17.65%	675	39.28%	1,284	379	1,663	1,663
2004	9,750	1,740	17.63%	681	39.14%	1,290	385	1,675	1,675
2005	9,840	1,816	18.35%	682	37.57%	1,371	414	1,785	1,785
2006	9,930	2,147	21.62%	817	37.62%	1,424	478	1,902	1,902
2007	10,020	2,276	22.72%	861	37.85%	1,477	487	1,964	1,964
2008	10,110	2,320	22.94%	872	37.43%	1,494	502	1,996	1,996
2009	10,200	2,382	23.35%	852	36.20%	1,509	516	2,025	2,025
2010	10,290	2,424	23.56%	871	36.04%	1,525	521	2,046	2,046
2011	10,380	2,484	23.94%	920	37.13%	1,584	542	2,126	2,126
2012	10,470	2,525	24.09%	928	37.01%	1,622	560	2,182	2,182
2013	10,560	2,581	24.44%	914	35.41%	1,669	574	2,243	2,243
2014	10,650	2,627	24.67%	924	35.19%	1,693	582	2,275	2,275
2015	10,740	2,671	24.87%	929	34.62%	2,002	601	2,603	2,603
2016	10,830	2,694	24.91%	921	33.83%	2,093	577	2,670	2,670
2017	10,920	2,791	25.56%	934	33.48%	2,126	580	2,706	2,706
2018	11,010	2,880	26.16%	783	27.19%	2,157	566	2,723	2,723
2019	11,100	2,864	25.79%	785	27.42%	2,197	561	2,758	2,758
2020	11,190	2,857	25.53%	793	27.74%	2,237	576	2,813	2,813
2021	11,280	2,826	25.05%	791	28.01%	2,271	567	2,838	2,838
2022	11,370	2,828	24.87%	783	27.54%	2,307	567	2,874	2,874
2023	11,460	2,828	24.67%	783	27.54%	2,343	567	2,910	2,910

Actual Period Average (1991-1997) : 21.67% 7,751 1997-1999
 Forecast Period Average (1994-2021) : 21.72% 7,765 Forecast-Scale Period (1994-1997)

Assumptions:
 - M&I (Total Domestic Water Use per Person): 60.5 Gallons per person per day
 - M&I (Total Domestic Water Use Coefficient): 0.3875
 - Commercial & Industrial Water Use per Worker: 300.0 Gallons per worker per day (excluding mining)
 - Commercial & Industrial Water Use Coefficient: 0.34
 - Assesment per acre per year (See [Table 2](#))

Note: One acre-foot (AF) is approximately equal to 325,851 gallons.
 [1] Domestic water use is based on census data and other data within the county and does not include water supplied from outside the county. See 2017 C&I PR 0016.
 [2] M&I water use includes public supplied water for domestic (residential), commercial, industrial and other uses within the county.
 Source: Population and Employment—State Demographic Statistics System—PLWR; Employment: DSTR; Estimates: Forecast—SEWR.

Pershing County Water Withdrawal Forecasts

Part 1-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year	Actual 1980-1997 Estimated 1998-2010	Forecasted Population Public Water Service (1)	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Domestic Use Public Water (1)	Forecasted Population on Public Water Systems (4)	Forecasted Percent of Population on Pub. Supply	Forecasted Public Supplied Domestic Water Use (2)	Forecasted Self- Supplied Domestic Water Use (3)	Forecasted Municipal & Industrial Water Use (1)
1980		3,000	397	55	--	--	--	--	--
1981		3,118	542	70	--	--	--	--	--
1982		3,235	317	91	--	--	--	--	--
1983		3,274	768	103	--	--	--	--	--
1984		3,361	851	102	--	--	--	--	--
1985		3,427	853	103	--	--	--	--	--
1986		3,532	843	107	--	--	--	--	--
1987		3,627	928	114	--	--	--	--	--
1988		3,703	1,021	122	--	--	--	--	--
1989		3,761	1,012	121	--	--	--	--	--
1990		3,809	1,081	122	--	--	--	--	--
1991		3,859	1,056	121	--	--	--	--	--
1992		3,909	1,119	124	--	--	--	--	--
1993		4,042	1,024	120	--	--	--	--	--
1994		4,230	1,117	131	--	--	--	--	--
1995		4,539	1,195	141	4,510	88.31%	1,194	145	1,334
1996		4,808	1,369	151	4,809	88.15%	1,460	151	2,115
1997		5,078	1,519	161	5,071	88.94%	1,540	163	2,370
1998		5,349	1,576	168	5,375	89.39%	1,577	167	2,561
1999		6,176	1,612	162	6,112	90.86%	1,614	161	2,537
2000		6,242	1,648	167	6,249	89.12%	1,650	165	2,395
2001		6,374	1,683	161	6,383	88.44%	1,688	161	2,441
2002		6,509	1,717	165	6,514	88.60%	1,720	162	2,400
2003		6,628	1,750	169	6,640	88.43%	1,751	168	2,339
2004		6,750	1,783	173	6,760	88.57%	1,780	169	2,386
2005		6,864	1,815	176	6,889	88.53%	1,818	172	2,401
2006		6,986	1,848	180	7,009	88.54%	1,848	175	2,416
2007		7,339	1,872	183	7,110	88.50%	1,877	178	2,377
2008		7,342	1,899	187	7,213	88.59%	1,906	181	2,357
2009		7,300	1,925	190	7,313	88.63%	1,935	184	2,395
2010		7,382	1,946	193	7,410	88.64%	1,960	187	2,431
2011		7,468	1,970	195	7,508	88.68%	1,980	190	2,457
2012		7,549	1,993	198	7,601	88.68%	2,002	193	2,494
2013		7,611	2,013	200	7,697	88.71%	2,022	196	2,524
2014		7,690	2,031	202	7,791	88.72%	2,040	199	2,544
2015		7,751	2,047	204	7,890	88.74%	2,057	202	2,570
2016		7,826	2,061	206	7,946	88.77%	2,072	204	2,594
2017		7,891	2,073	207	7,995	88.79%	2,085	207	2,615
2018		7,921	2,084	207	7,947	88.82%	2,096	208	2,630
2019		7,923	2,092	207	7,947	88.84%	2,105	209	2,647
2020		7,924	2,099	209	7,946	88.86%	2,112	209	2,661

Assumptions:

- M&I - Domestic Use (Person Public Supplied) 241.5 215.7 Gallons per person per day - public supply
- (Public-supplied Water Water Use (Overseas)) 2,164.5 2,064.5 Acres-foot per person per year
- Domestic Water Use on Public - Self-Supplied Water 21.24 21.24 Gallons per person per day - self-supply
- (Self-Supplied Water Use (Overseas)) 2,377.4 2,377.4 Acres-foot per person per year
- 1995 Estimated Resident Population on Public Supply 88,316% Percent of total resident population

Note: See page four (4) for updated to approximately 2010-2011 values

(1) Estimated Year 2010 based on forecasted percent of total resident population living on public-supplied water service

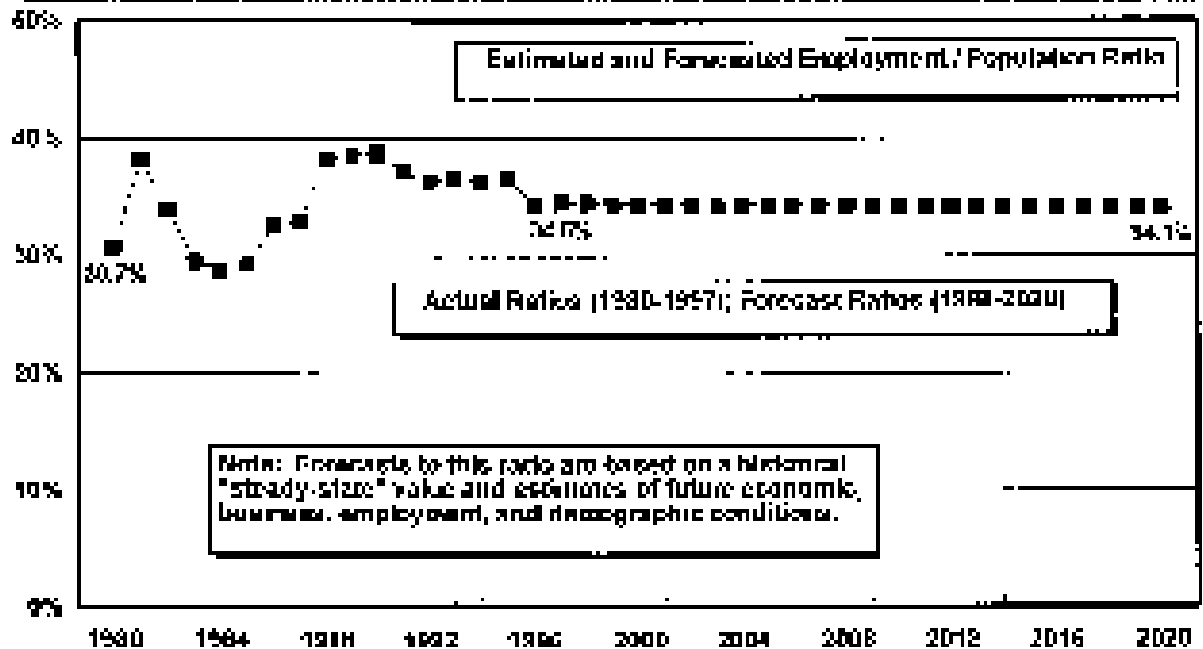
(2) Self-supplied water use based on a variable percent of total resident population on public-supplied water service (range 19% to 41%)

(3) M&I - Municipal and Industrial public-supplied water use forecasted (assumed 1994 to 2010) (forecasted and actual) - Population estimate - State Agency (range); Population estimate - NVWS, long-term; DWR, Employment forecast - BUREAU

Nevada Socioeconomic Analysis and Forecasts

Pershing County Employment-to-Population Ratios

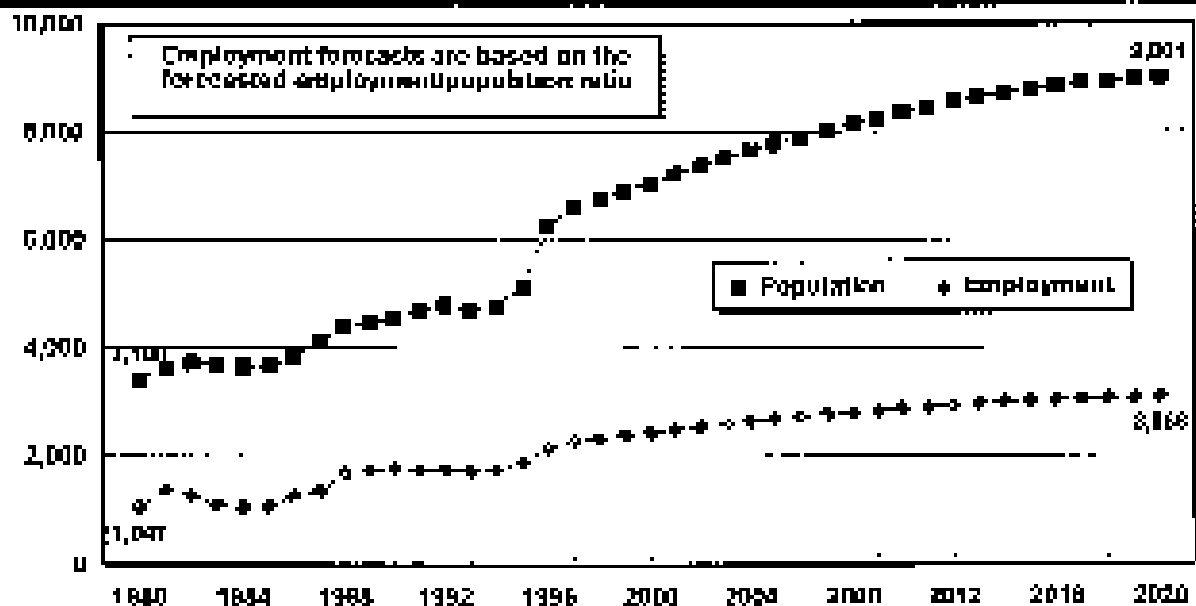
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data - Nevada State Demographer - DETR

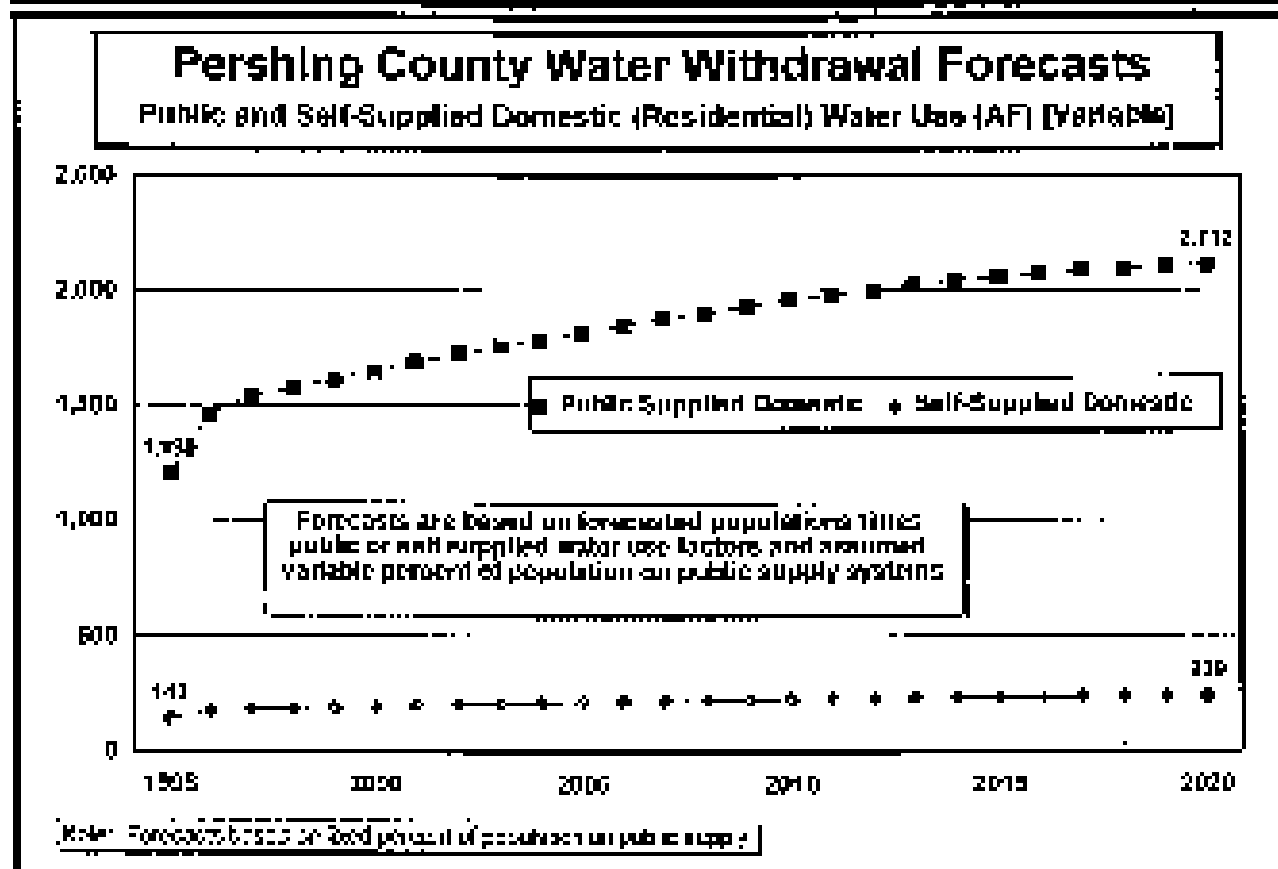
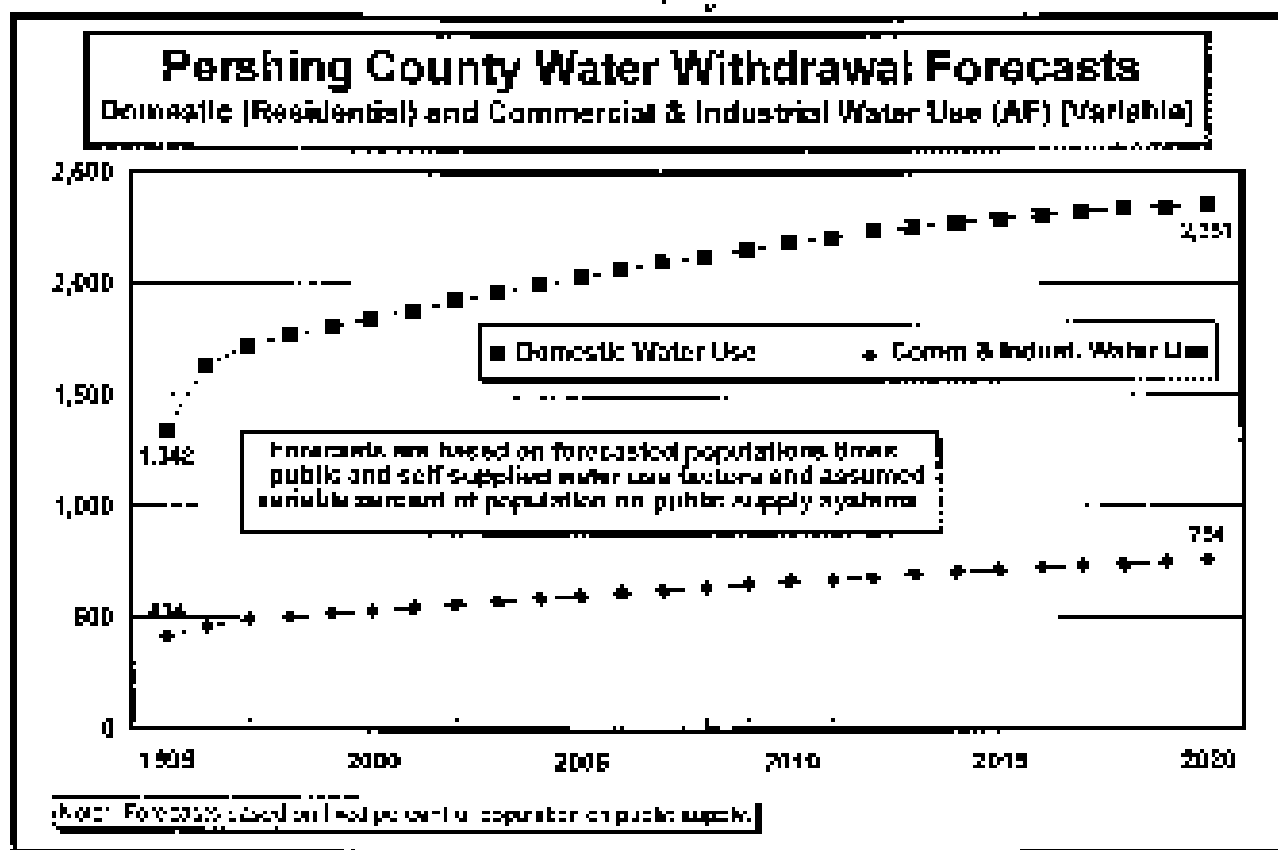
Pershing County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

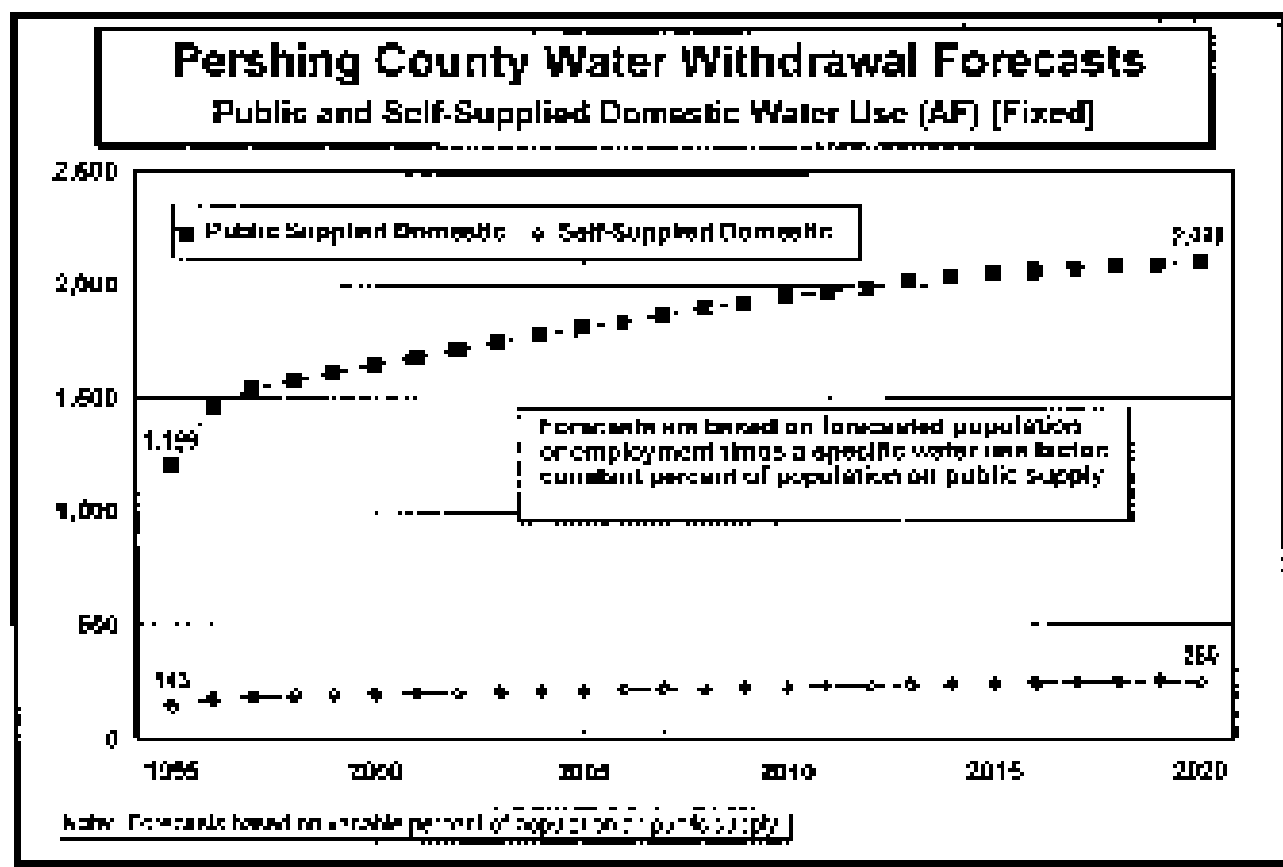
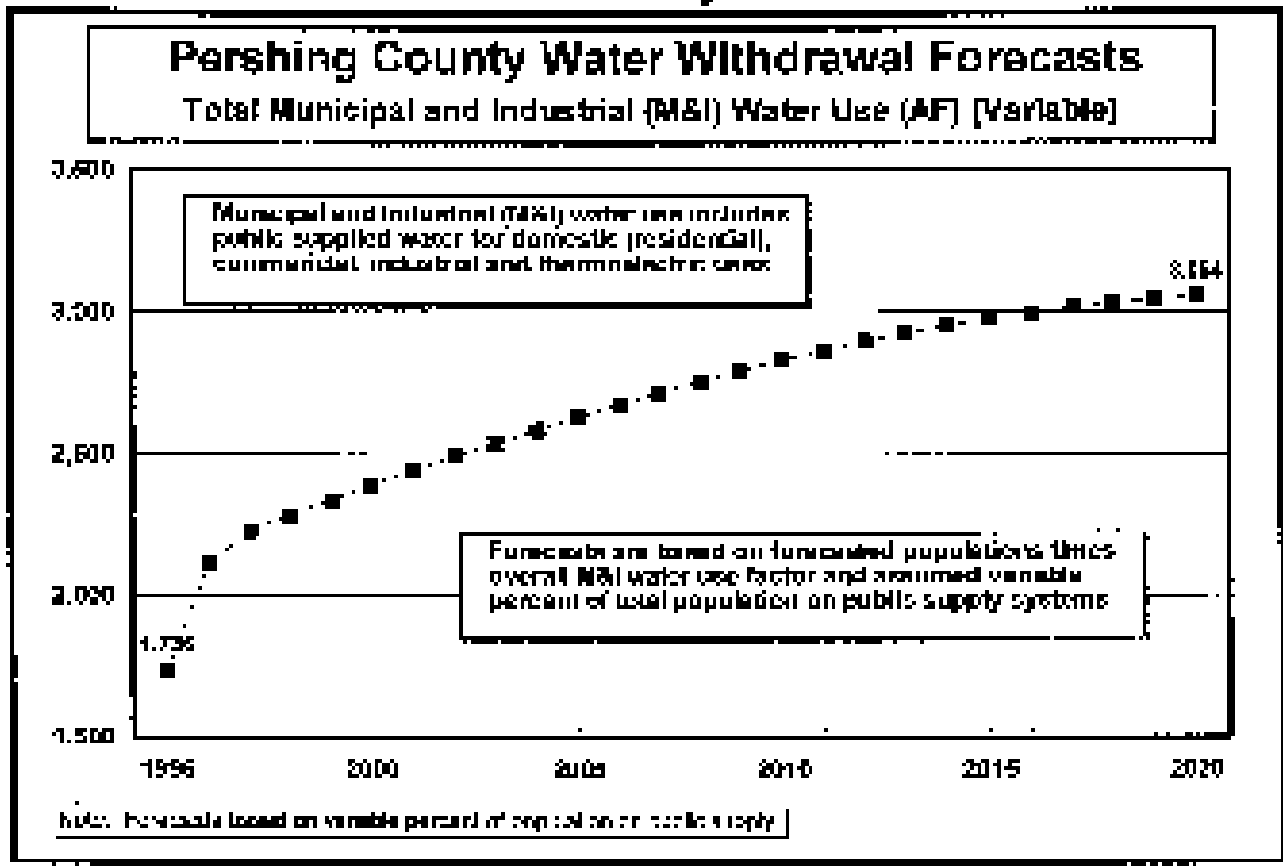


Source: Data - Nevada State Demographer - DETR

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



Storey County Water Withdrawal Forecasts

Part I-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year	Actual/Forecasted and Estimated and Estimated and	Employment	Withdrawal	Share of Total	Forecasted	Forecasted	Forecasted	Forecasted
1985-1997	Domestic/ Commercial/ Population	Employment/ Rate	Domestic/ Commercial/ Employment	Domestic/ Commercial/ Employment	Domestic/ Commercial/ Employment	Domestic/ Commercial/ Employment	Domestic/ Commercial/ Employment	Domestic/ Commercial/ Employment
1985-2018	Population	Employment	Employment	Employment	Water Use (1)	Water Use (2)	Water Use (3)	Water Use (4)
1980	1,503	314	47.30%	29	40.74%	150	41	151
1981	1,590	350	48.31%	29	42.81%	150	46	161
1982	1,690	442	57.99%	29	42.64%	150	41	172
1983	1,730	491	59.99%	28	41.48%	152	42	179
1984	1,780	522	60.44%	28	38.28%	150	47	181
1985	1,820	580	61.35%	28	21.72%	157	47	186
1986	1,900	643	67.63%	40	12.48%	208	50	199
1987	2,150	651	59.62%	60	15.64%	220	55	216
1988	2,142	657	59.95%	5	12.02%	227	59	217
1989	2,192	706	59.21%	130	17.84%	264	62	215
1990	2,262	737	58.37%	130	21.64%	272	60	260
1991	2,375	757	56.12%	134	13.46%	284	57	266
1992	2,525	889	54.46%	67	14.04%	300	67	286
1993	2,657	969	53.46%	87	12.95%	306	64	289
1994	2,817	1012	52.53%	85	13.31%	378	65	318
1995	2,912	1024	52.63%	81	11.34%	376	67	328
1996	2,972	1069	56.17%	120	11.13%	391	80	317
1997	2,972	1067	57.47%	125	12.36%	374	90	327
1998	3,015	1091	57.53%	127	17.79%	381	93	326
1999	3,049	1119	57.81%	129	15.65%	392	95	375
2000	3,171	1144	57.49%	130	15.45%	401	93	383
2001	3,242	1150	57.16%	137	15.16%	410	90	391
2002	3,336	1185	57.07%	135	15.46%	413	93	400
2003	4,016	1190	57.09%	135	10.26%	427	100	404
2004	4,054	1,144	56.36%	136	10.16%	433	107	410
2005	4,170	1,140	56.28%	13	0.06%	443	112	471
2006	4,244	1,192	56.10%	19	0.86%	451	112	471
2007	4,316	1,210	56.17%	20	0.85%	459	113	474
2008	4,386	1,238	56.24%	21	0.78%	466	117	481
2009	4,457	1,261	56.31%	22	0.60%	475	119	483
2010	4,519	1,282	56.38%	23	0.50%	480	121	484
2011	4,581	1,305	56.45%	23	0.40%	487	121	486
2012	4,640	1,325	56.52%	24	0.30%	493	122	491
2013	4,697	1,343	56.59%	24	0.20%	499	122	497
2014	4,751	1,361	56.67%	25	0.10%	505	122	493
2015	4,801	1,380	56.71%	25	0.09%	510	131	497
2016	4,848	1,397	56.81%	25	0.08%	515	133	493
2017	4,892	1,413	56.88%	25	0.08%	520	133	497
2018	4,932	1,428	56.95%	25	0.08%	524	136	501
2019	4,968	1,442	57.02%	25	0.08%	528	138	504
2020	5,001	1,456	57.12%	25	0.08%	531	139	508

Actual Period Average (1985-1997) 41.12% 0.65% Numbered Distribution (1985-1997)
 Forecast Period Average (1998-2020) 26.11% 14.31% Total Water Supply Period (1998-2020)
 Assumptions:
 M&I Total Domestic Water Use per Person 1.650 99.8 Gallons per person per day
 (M&I Total Domestic Water Use Coefficient)
 Commercial & Industrial Water Use per Worker 0.148 2.166 Gallons per worker per day (excludes mining)
 (Commercial & Industrial Water Use Coefficient)
 New Water Use for M&I (excludes residential) 22,317 gallons
 1) Domestic use - includes all water use in private and commercial buildings, public applied water systems. See Part 2 of this table.
 2) Commercial use - includes all mining activities.
 3) M&I water includes all public utility water for commercial, industrial, institutional, including food processing water sources. Excludes all non-potable water, for example, irrigation, livestock, M&I, firefighting, DSTR, Treatment plants-RO/WF.

Storey County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Feet)

Forecast Year (1948-1977) Historical 1988-2018	Forecasted Population Public Water Supply (1)	Forecasted		Forecasted Self-Supplied Domestic Water Use (1)	Forecasted Domestic Public Water Source (2)	Variable Percent of Population on Public Supply	Forecasted		Forecasted Municipal & Industrial Water Use (4)(1)
		Public Supplied Domestic Water Use (3)	Domestic Self-Supplied Water Use (1)				Public Supplied Domestic Water Use (2)	Domestic Self-Supplied Water Use (3)	
1940	852	103	34	--	--	--	--	--	--
1941	1,208	111	38	--	--	--	--	--	--
1942	1,417	118	41	--	--	--	--	--	--
1943	1,749	121	43	--	--	--	--	--	--
1944	1,828	123	43	--	--	--	--	--	--
1945	1,872	130	47	--	--	--	--	--	--
1946	1,843	117	41	--	--	--	--	--	--
1947	1,850	149	77	--	--	--	--	--	--
1948	1,855	150	78	--	--	--	--	--	--
1949	1,872	174	70	--	--	--	--	--	--
1950	1,822	179	73	--	--	--	--	--	--
1951	1,724	150	59	--	--	--	--	--	--
1952	1,787	151	60	--	--	--	--	--	--
1953	1,605	140	53	--	--	--	--	--	--
1954	1,667	142	54	--	--	--	--	--	--
1955	1,706	154	61	2,028	63.38%	254	150	174	274
1956	1,801	152	60	2,103	63.39%	232	150	150	230
1957	1,831	141	53	2,212	63.41%	247	137	137	257
1958	1,833	152	55	2,286	63.42%	253	131	131	253
1959	1,838	158	54	2,347	63.43%	250	134	134	273
1960	1,891	154	52	2,394	63.45%	264	136	136	283
1961	1,945	161	53	2,437	63.47%	270	139	139	282
1962	1,995	170	53	2,489	63.49%	276	147	147	290
1963	2,045	181	54	2,500	63.50%	282	147	147	298
1964	2,097	187	54	2,600	63.52%	287	148	148	300
1965	2,145	192	57	2,640	63.53%	293	150	150	321
1966	2,190	197	54	2,697	63.55%	298	152	152	332
1967	2,233	199	55	2,714	63.56%	301	156	156	339
1968	2,280	207	56	2,759	63.58%	306	158	158	346
1969	2,322	207	56	2,832	63.60%	311	160	160	353
1970	2,369	210	56	2,874	63.61%	315	161	161	350
1971	2,410	221	60	2,913	63.63%	322	167	167	356
1972	2,441	223	60	2,953	63.64%	323	167	167	372
1973	2,477	225	62	2,990	63.66%	330	169	169	378
1974	2,511	233	62	3,025	63.68%	334	171	171	384
1975	2,543	238	64	3,058	63.69%	336	173	173	389
1976	2,573	236	62	3,089	63.71%	341	174	174	394
1977	2,600	242	62	3,117	63.72%	344	175	175	398
1978	2,626	243	62	3,144	63.74%	347	177	177	404
1979	2,649	245	62	3,168	63.76%	350	178	178	406
1980	2,669	250	63	3,189	63.77%	352	179	179	410

ASSUMPTIONS:

M&I Domestic Use/Person (Water Supplied)..... 143.0 Gallons per person per day--Public supply

Public-supplied Water/Person Use/Coefficient..... 0.5022 Gallons per person per day per year

Domestic Water Use/Person Self-Supplied/Year..... 88.8 Gallons per person per day--Self-supply

Self-Supplied Water Use Coefficient..... 0.5991 Annual per person per year

1995 Estimated Resident Population on Public Supply 63,185% Percent of total market per annum

Note: Coefficient (M&I) is equivalent to approximately 72,851 gallons

(1) Interim forecasts are based on current water market use and population history on public supplied water systems

(2) Extrapolations are based on available water and population history on public supplied water systems from the years 1948 through 1977

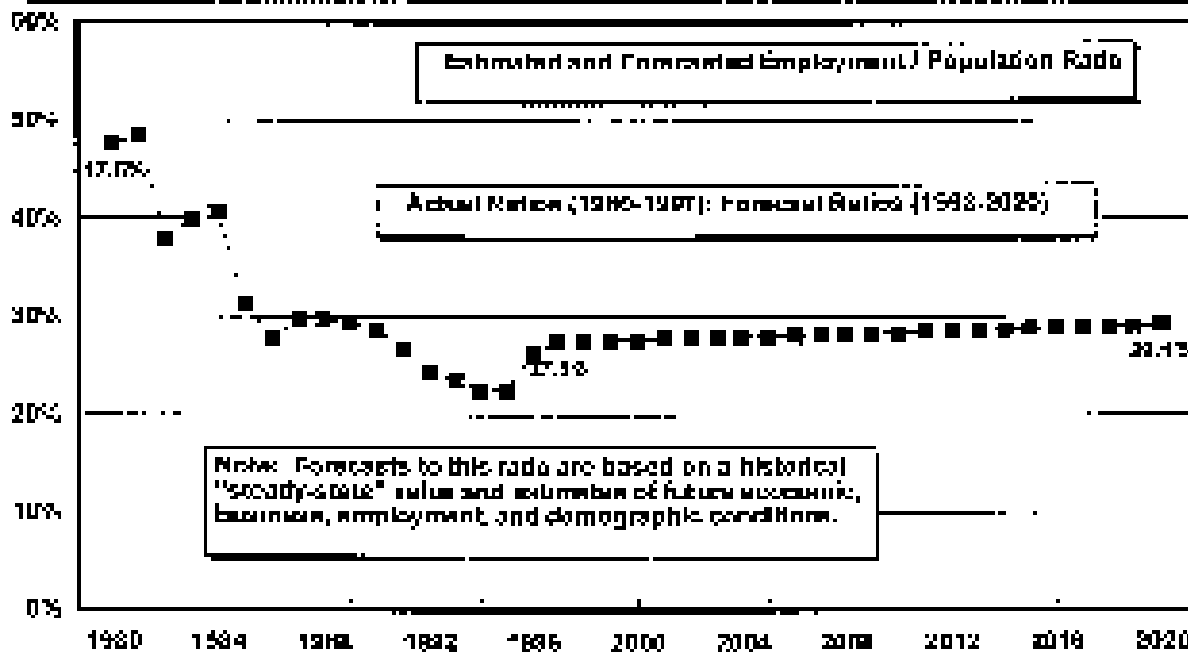
(3) M&I coefficient is based on public supplied water from 1955 through 1977, excluding 1955 and 1956 due to drought

Source: Population and water-use Demographic, Population Census, NWRK, Employment, DWRK Employment Income-MW

Nevada Socioeconomic Analysis and Forecasts

Storey County Employment-to-Population Ratios

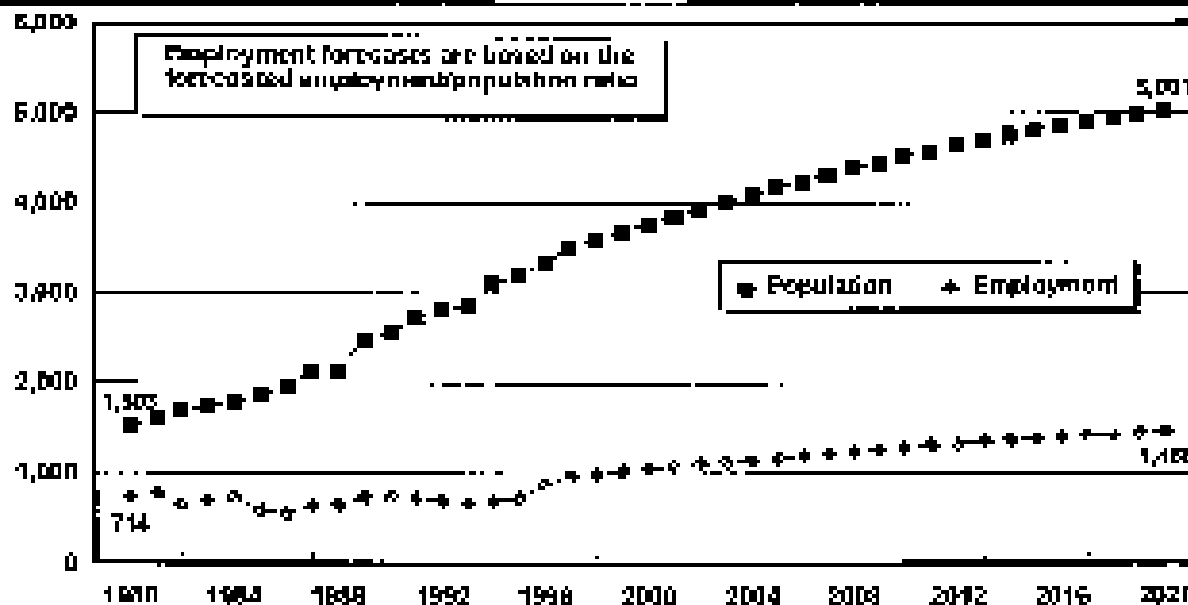
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographic Center

Storey County Population & Employment Forecasts

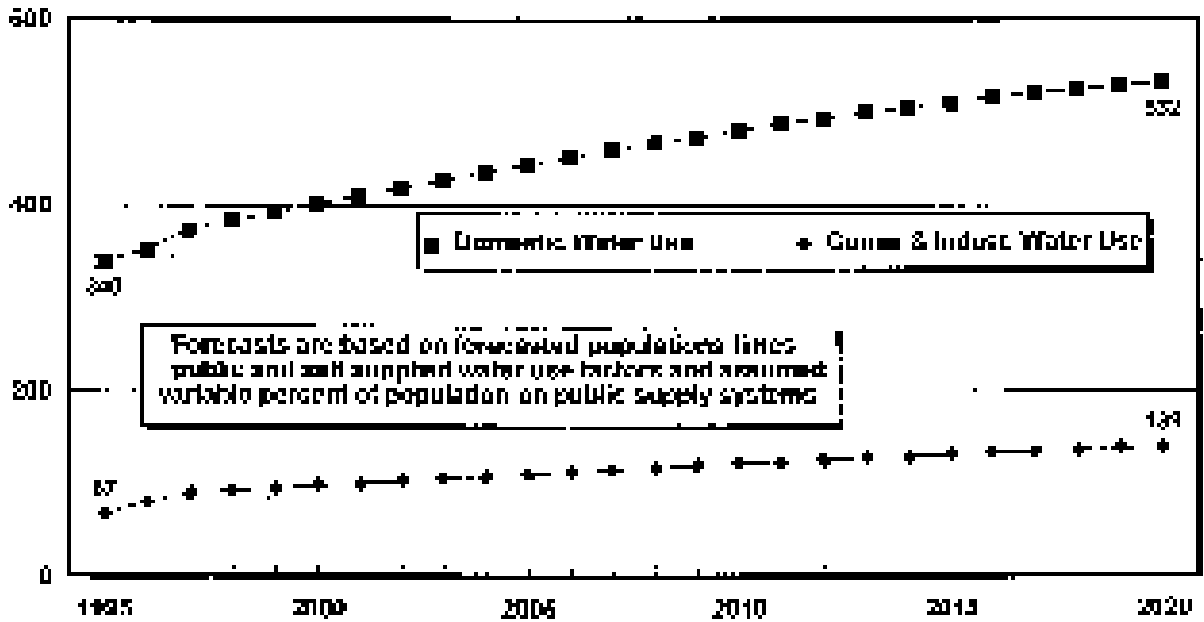
Total Population (Persons) and Total Covered Employment (Workers)



Source: Data: Nevada State Demographic Center

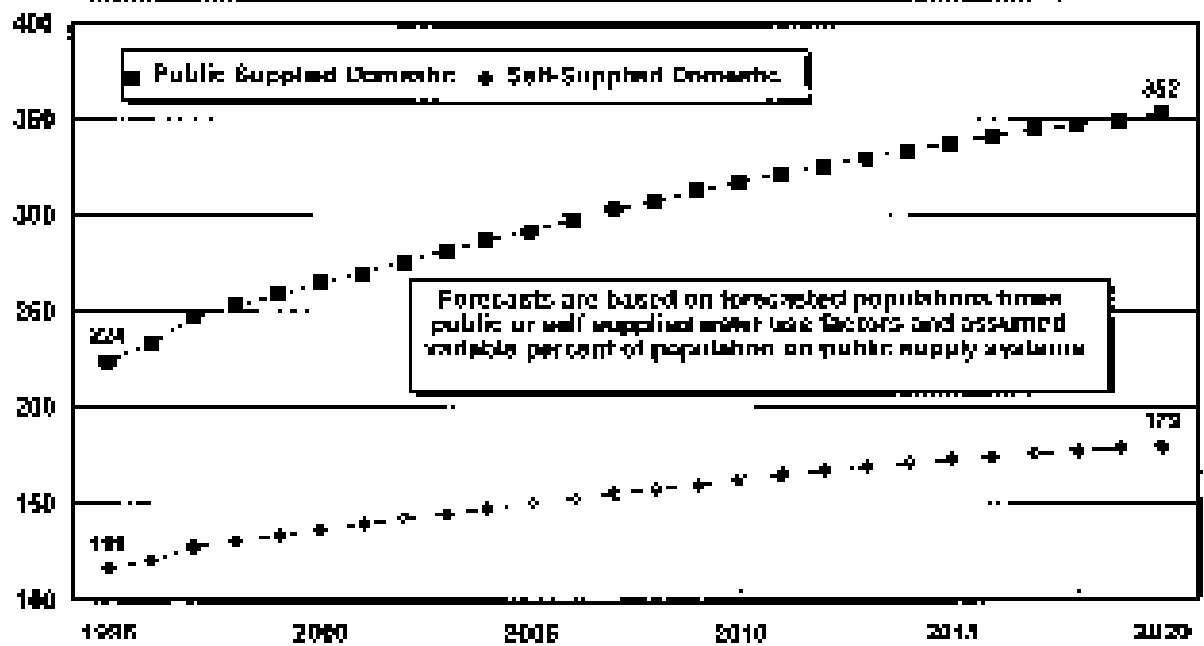
Nevada Water Use Analysis and Forecasts-1

Storey County Water Withdrawal Forecasts Domestic (Residential) and Commercial & Industrial Water Use (AF) [Variable]



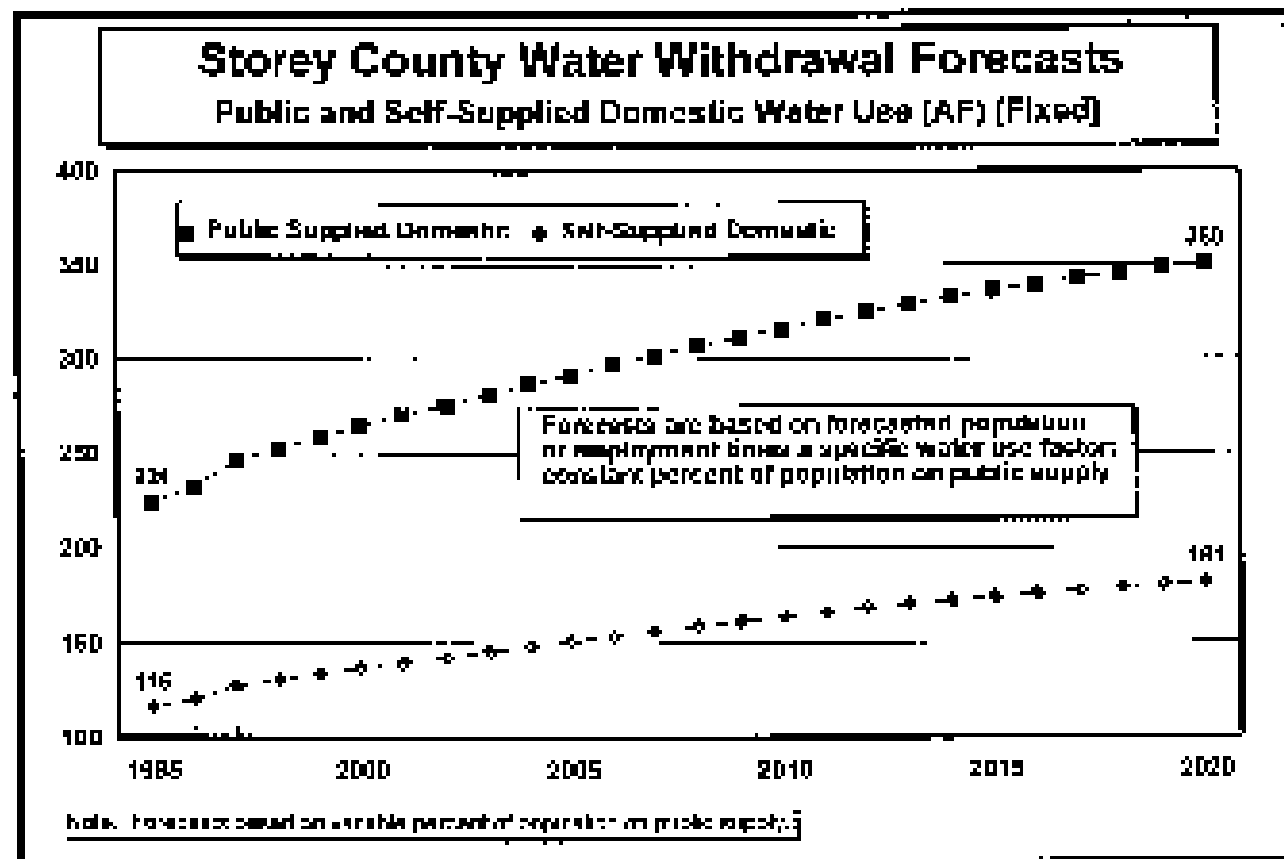
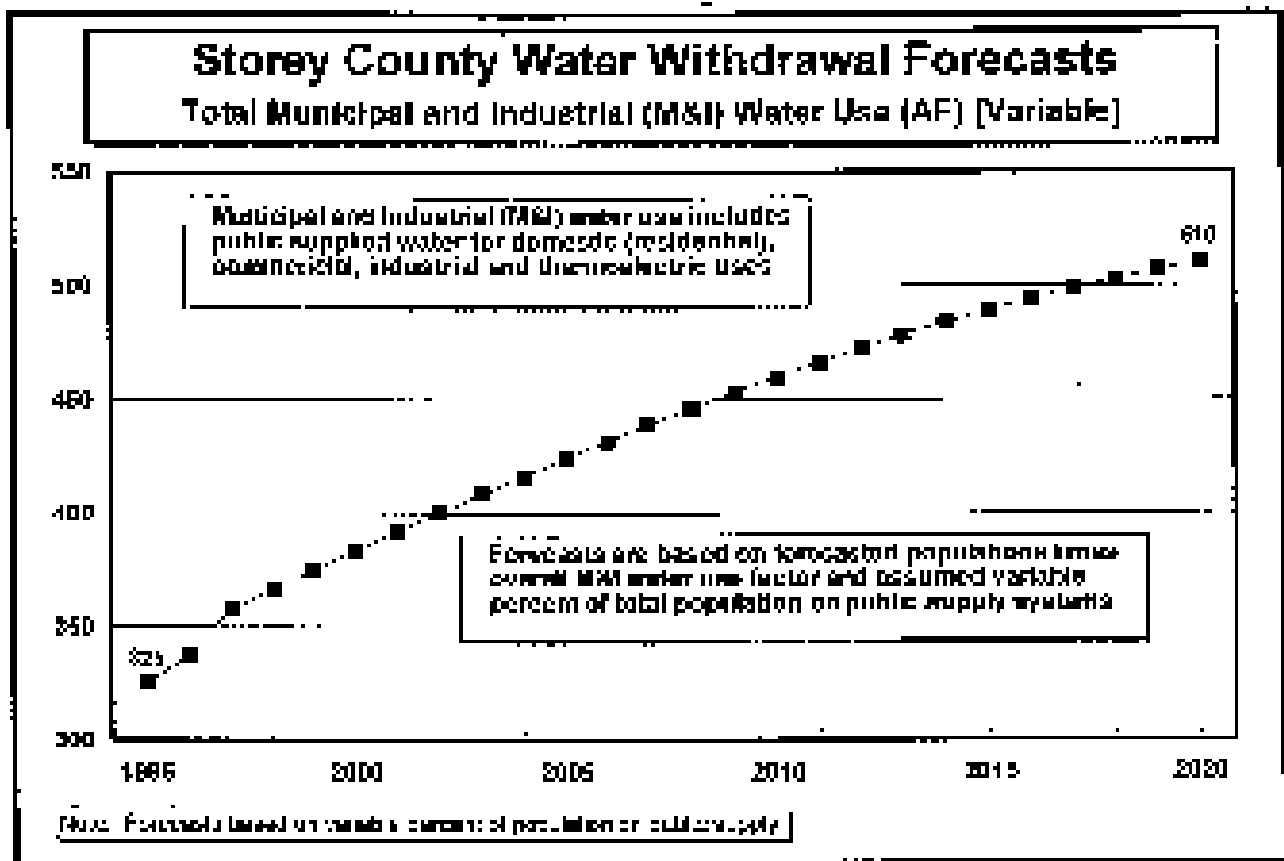
Note: Forecasts based on used percent of population on public supply

Storey County Water Withdrawal Forecasts Public and Self-Supplied Domestic (Residential) Water Use (AF) [Variable]



Note: Forecasts based on used percent of population on public supply

Nevada Water Use Analysis and Forecasts-2



Washoe County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acre-Feet)

Year: Actual 1984-1987, Forecasted 1988-2018	Forecasted Population	Forecasted Total Commercial Employment	Employment/Population Ratio	Estimated Forecasted M&I Employment	Share of Total Forecasted Employment	Forecasted Total Domestic Water Use [1]	Forecasted Total Commercial and Industrial Water Use [2]	Forecasted Municipal & Industrial Water Use [3]
1987	191,600	19,381	98.14%	978	0.51%	38,134	18,607	52,812
1988	201,300	19,701	97.82%	1,014	0.51%	39,763	18,711	54,019
1989	211,200	20,196	97.52%	1,062	0.50%	41,411	18,865	55,250
1990	221,200	20,777	97.06%	1,117	0.50%	43,086	19,012	56,540
1991	231,300	21,441	97.01%	1,178	0.51%	44,797	19,161	57,855
1992	241,500	22,191	96.47%	1,242	0.51%	46,544	19,317	59,188
1993	251,800	23,024	95.83%	1,309	0.52%	48,324	19,478	60,544
1994	262,200	23,944	95.50%	1,379	0.53%	50,138	19,643	61,923
1995	272,700	24,951	95.17%	1,452	0.53%	52,000	19,812	63,322
1996	283,300	26,044	95.48%	1,528	0.54%	53,924	20,000	64,744
1997	294,000	27,224	95.84%	1,607	0.55%	55,911	20,200	66,190
1998	304,800	28,491	96.12%	1,689	0.56%	57,964	20,412	67,656
1999	315,700	29,844	96.15%	1,774	0.56%	60,086	20,637	69,144
2000	326,700	31,284	96.08%	1,862	0.57%	62,278	20,874	70,650
2001	337,800	32,811	96.85%	1,953	0.58%	64,541	21,123	72,178
2002	349,000	34,424	98.63%	2,047	0.59%	66,874	21,384	73,720
2003	360,300	36,124	100.27%	2,144	0.60%	69,278	21,657	75,282
2004	371,700	37,911	102.02%	2,244	0.60%	71,744	21,943	76,864
2005	383,200	39,784	103.81%	2,347	0.61%	74,274	22,242	78,464
2006	394,800	41,751	105.76%	2,454	0.62%	76,864	22,553	80,088
2007	406,500	43,811	107.78%	2,564	0.63%	79,511	22,874	81,732
2008	418,300	45,964	109.89%	2,677	0.64%	82,224	23,207	83,396
2009	430,200	48,211	112.10%	2,794	0.65%	85,000	23,553	85,078
2010	442,200	50,654	114.53%	2,914	0.66%	87,844	23,912	86,778
2011	454,300	53,291	117.18%	3,037	0.67%	90,754	24,284	88,496
2012	466,500	56,124	119.94%	3,164	0.68%	93,734	24,667	90,232
2013	478,800	59,161	123.42%	3,294	0.69%	96,784	25,062	91,988
2014	491,200	62,404	127.03%	3,427	0.70%	99,900	25,474	93,764
2015	503,700	65,854	130.78%	3,564	0.71%	103,086	25,897	95,564
2016	516,300	69,511	134.58%	3,704	0.72%	106,334	26,337	97,388
2017	529,000	73,384	138.72%	3,847	0.73%	109,644	26,794	99,232
2018	541,800	77,484	143.21%	3,994	0.74%	113,011	27,267	101,096
2019	554,700	81,811	147.66%	4,144	0.75%	116,444	27,757	102,988
2020	567,700	86,374	152.14%	4,297	0.76%	120,944	28,264	104,900
Annual Period Average (1984-1987)			94.81%	1,49%	Standard Deviation (1984-1987)			
Forecast Period Average (1988-2018)			96.14%	2,614%	Lower-Mid-Range Period (1984-1987)			

Assumptions:
 M&I Factor Assumption by:
 - M&I Total Domestic Water Use per Person: 268.17 Gallons per person per day
 - M&I Total Commercial Water Use per Employee: 9,500 Gallons per person per day
 - Commercial & Industrial Water Use per Worker: 120.01 Gallons per worker per day (based on 1987)
 - Commercial & Industrial Water Use per Employee: 6,158 Gallons per worker per day (based on 1987)

Note: Use rounded (4th) digit values in spread sheets. 125,000 gallons.
 [1] Essential water use is a value-in-use measurement of total resident population being on public municipal watermain service that is available.
 [2] Total commercial, industrial and mining water use.
 [3] M&I water use includes public applied water for domestic (predominant), commercial and industrial uses only.
 Source: Population from U.S. State Department Population Issues - 2004; Employment - BLS, Employment Service - 2008.

Washoe County Water Withdrawal Forecasts

Part 2-Estimated M&L and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year/Account Forecast Year (2018-2028)	Forecasted Population on Public Water Systems [1]	Forecasted		Forecasted Population on Public Water Systems [2]	Variable Permitted Population on Public Supply	Forecasted		Forecasted Municipal & Industrial M&L Water Use [5]
		Public Supplied Domestic Water Use [1]	Forecasted Self-Supplied Domestic Water Use [4]			Public Supplied Domestic Water Use [2]	Forecasted Self-Supplied Domestic Water Use [3]	
1980	144,000	31,800	3,300					
1981	152,111	36,256	3,505					
1982	155,228	36,375	3,565					
1983	156,315	37,510	3,668					
1984	157,378	39,076	3,799					
1985	158,437	40,377	3,904					
1986	159,490	41,758	4,038					
1987	160,538	43,250	4,199					
1988	161,581	44,824	4,368					
1989	162,620	46,477	4,557					
1990	163,654	48,223	4,770					
1991	164,684	49,977	4,985					
1992	165,710	51,753	5,215					
1993	166,733	53,553	5,460					
1994	167,753	55,379	5,720					
1995	168,770	57,233	6,000	267,905	60,334	52,322	5,000	74,085
1996	169,784	59,116	6,302	273,897	60,325	54,177	5,260	82,724
1997	170,795	61,029	6,627	279,896	60,316	56,060	5,542	91,327
1998	171,803	62,970	6,975	285,903	60,306	57,979	5,847	100,001
1999	172,808	64,939	7,348	291,917	60,296	59,930	6,174	108,757
2000	173,810	66,936	7,747	297,937	60,285	61,922	6,524	117,615
2001	174,809	68,961	8,172	303,962	60,274	63,945	6,896	126,586
2002	175,805	71,014	8,624	309,991	60,263	65,997	7,287	135,673
2003	176,798	73,094	9,104	316,024	60,252	68,078	7,698	144,882
2004	177,788	75,201	9,611	322,071	60,241	70,187	8,130	154,210
2005	178,774	77,334	10,146	328,131	60,230	72,323	8,583	163,660
2006	179,756	79,494	10,709	334,204	60,219	74,485	9,057	173,230
2007	180,734	81,681	11,300	340,291	60,208	76,672	9,552	182,920
2008	181,707	83,894	11,919	346,392	60,197	78,883	10,068	192,730
2009	182,675	86,133	12,566	352,507	60,186	81,117	10,605	202,660
2010	183,638	88,400	13,241	358,636	60,175	83,383	11,164	212,710
2011	184,595	90,694	13,944	364,779	60,164	85,680	11,745	222,880
2012	185,547	93,016	14,676	370,936	60,153	88,008	12,348	233,170
2013	186,493	95,366	15,437	377,107	60,142	90,367	12,974	243,580
2014	187,434	97,744	16,228	383,292	60,131	92,747	13,623	254,110
2015	188,370	100,150	17,049	389,491	60,120	95,148	14,294	264,760
2016	189,301	102,583	17,900	395,704	60,109	97,570	14,987	275,530
2017	190,227	105,044	18,781	401,931	60,098	100,013	15,702	286,430
2018	191,148	107,533	19,692	408,172	60,087	102,477	16,439	297,460
2019	192,064	110,050	20,633	414,427	60,076	104,962	17,200	308,610
2020	192,975	112,595	21,604	420,696	60,065	107,467	17,984	320,880

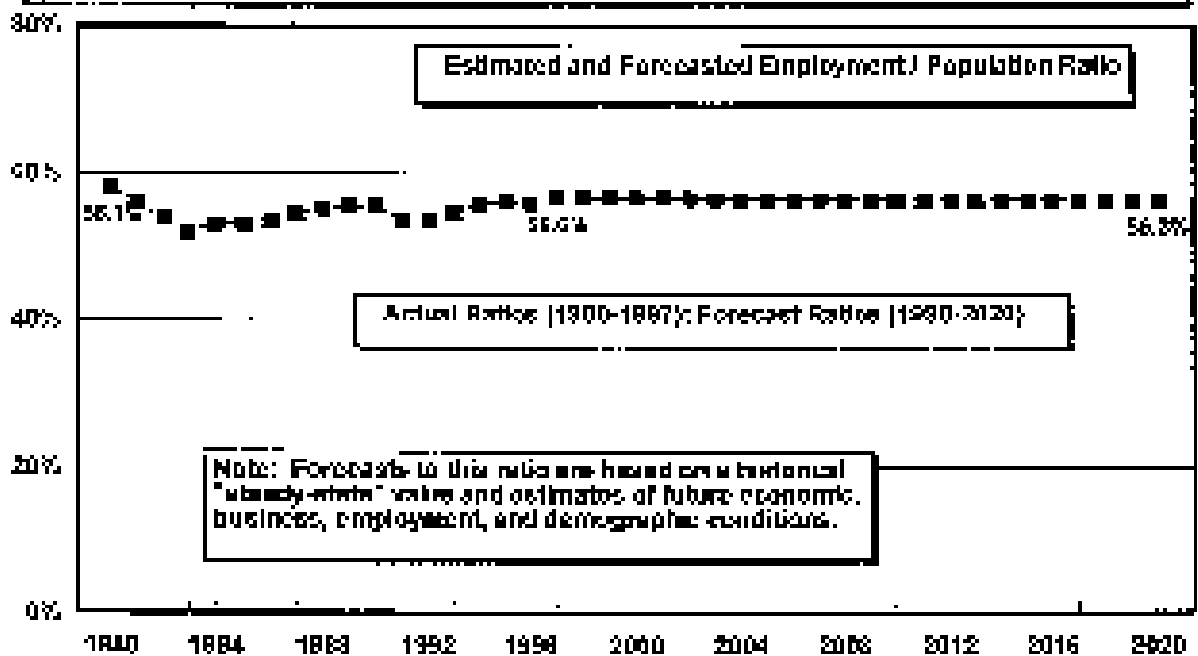
Assumptions:

- M&L Domestic Use-Permit (Public supplied) = 300.0 Gallons per person per day (public supply)
- Public Supplied Public Water Use Coefficient = 0.1941 (assumed constant per year)
- Domestic Water Use per person - Self-Supplied Water = 100.0 Gallons per person per day - self supply
- Self-Supplied Water Use Coefficient = 0.1992 (assumed constant per year)
- 2020 Estimated Resident Population on Public Supply = 192,975 (based on total resident population)
- Note: Domestic Residual Population = approximately 26,451 persons
- [1] Population forecasts are based on annual percent of total resident population stay on public-supplied water system.
- [2] Population forecasts are based on variable percent of total resident population stay on self-supplied water systems for the years 1996 through 2020.
- [3] M&L water use includes public-supplied water for residential, commercial, industrial and domestic uses.
- Source: Population Census, State Demography, Nevada census data-M&L employment data (M&L supply and demand) 2016-P

Nevada Socioeconomic Analysis and Forecasts

Washoe County Employment-to-Population Ratios

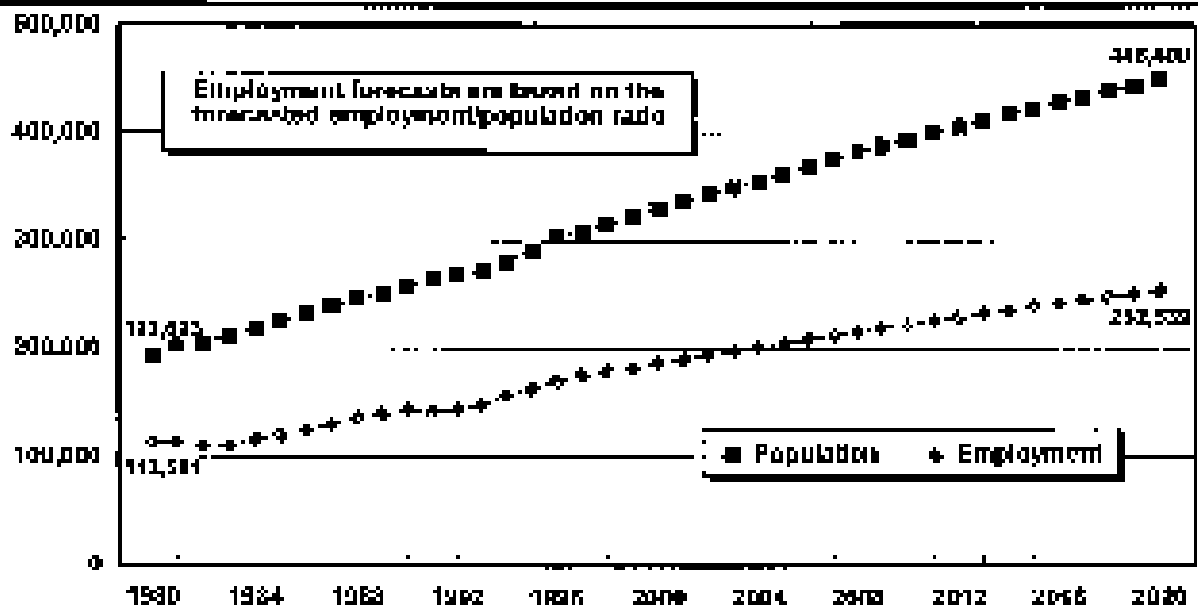
Ratio of Total Covered Employment to Total Population (Percent)



Source: Data: Nevada State Demographer, JCHIE

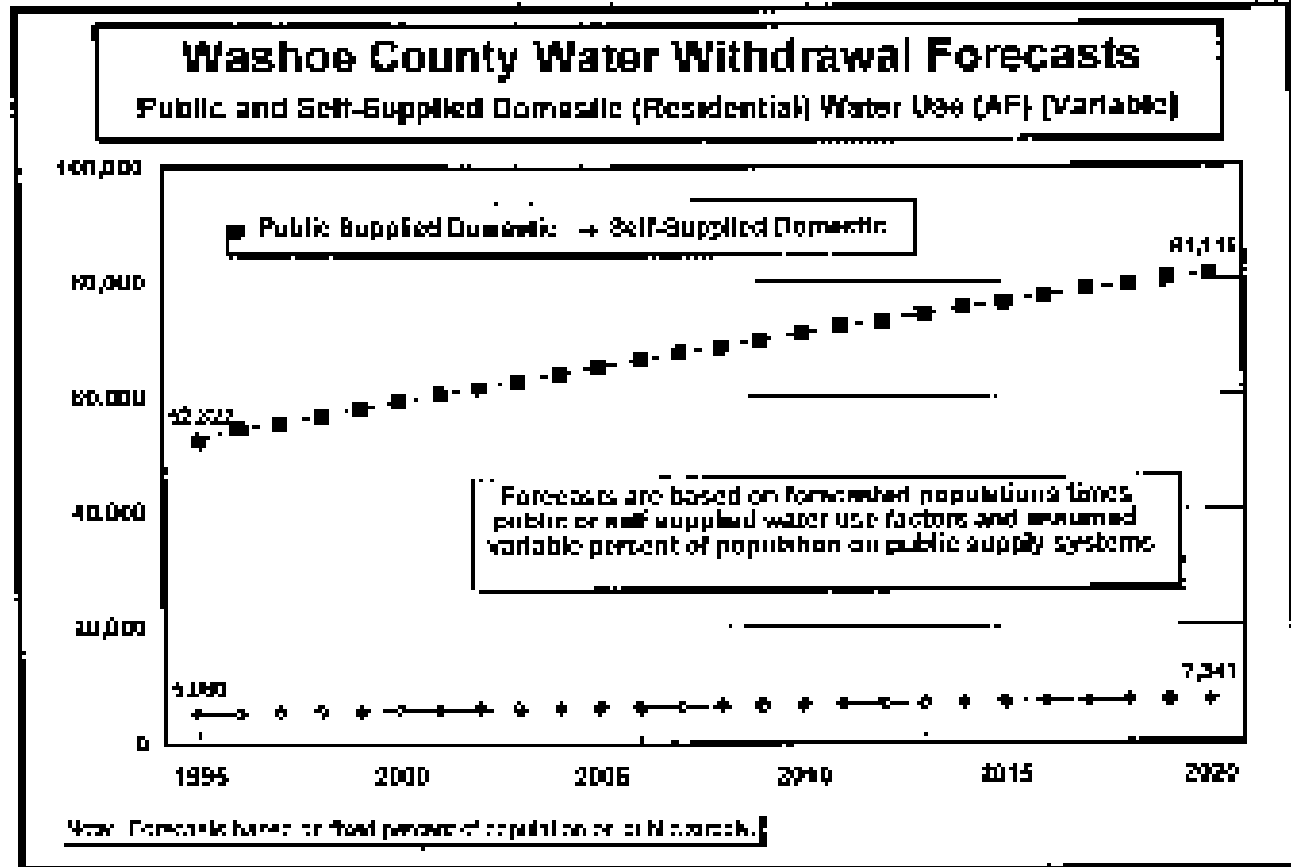
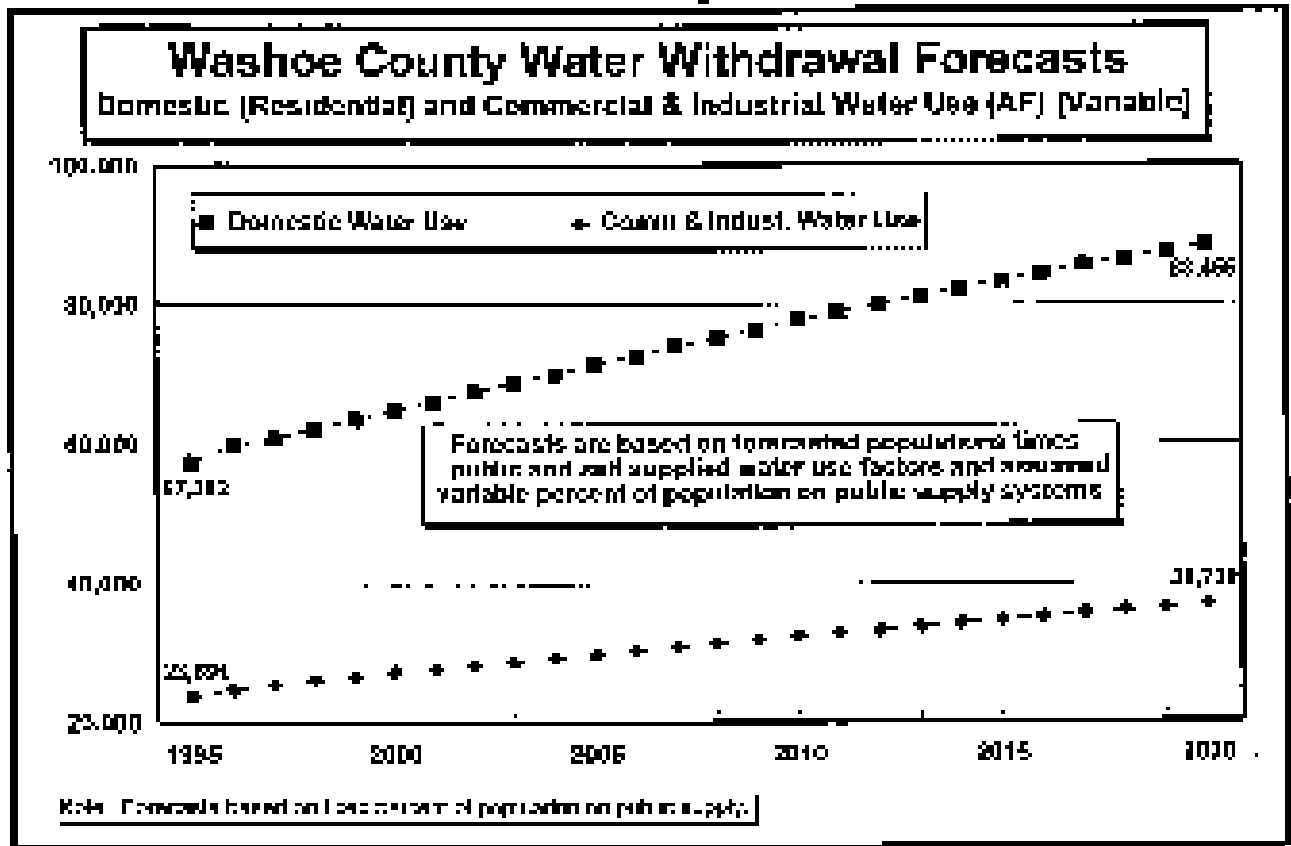
Washoe County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)

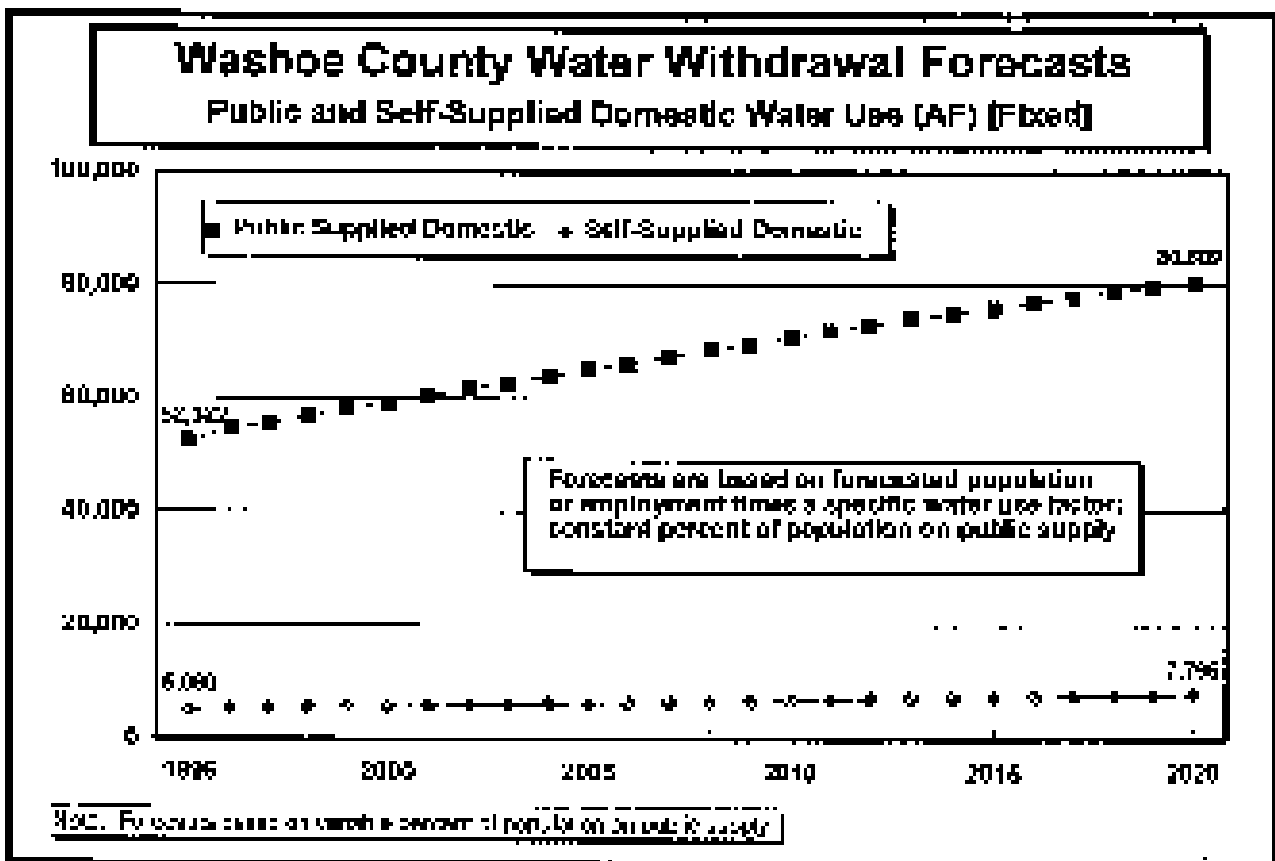
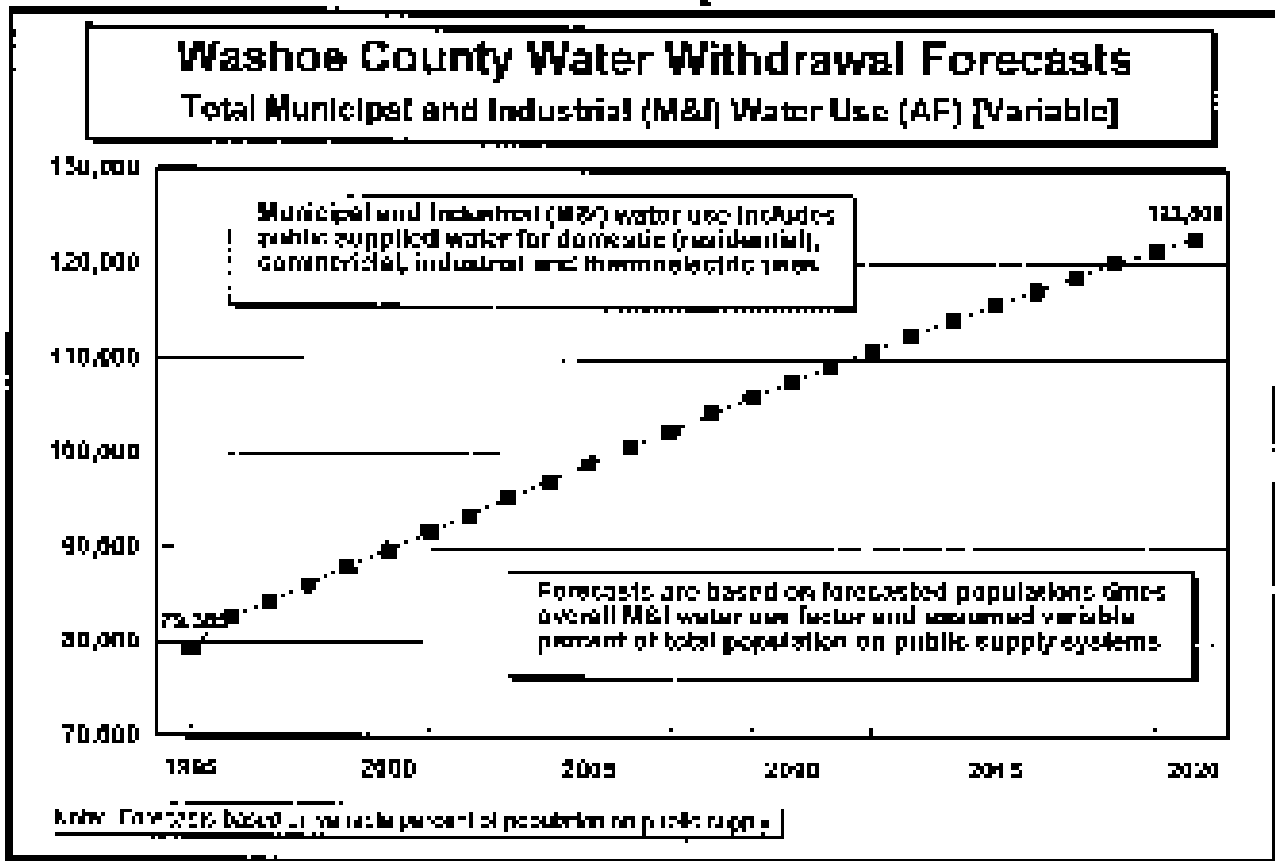


Source: Data: Nevada State Demographer - GETP

Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2



White Pine County Water Withdrawal Forecasts

Part 1-Domestic, Commercial & Industrial, M&I Water Use Estimates/Forecasts (Acres-Feet)

Year: Actual (1994-1997) From 1994-1997	Estimated Residential Population	Estimated Total Covered Employment	Estimated Population (2010)	Estimated Total Employment	Estimated Total Covered Employment	Forecasted Total Forecasted (Domestic, Commercial, and Industrial) Water Use (AF)	Forecasted Total Commercial and Industrial Water Use (AF)	Forecasted Municipal & Industrial Water Use (AF)
1980	8,157	3,150	35,21%	739	10.84%	2,714	140	2,938
1981	8,050	3,454	43.51%	541	15.48%	2,699	150	2,928
1982	7,878	2,395	30.78%	359	12.42%	2,674	145	2,890
1983	7,792	2,318	31.88%	315	14.34%	2,619	142	2,851
1984	7,716	2,380	35.67%	477	15.33%	2,591	145	2,802
1985	7,712	2,712	35.28%	573	15.20%	2,591	142	2,802
1986	7,805	2,216	35.50%	411	16.36%	2,562	142	2,863
1987	8,000	3,873	35.94%	461	15.27%	2,608	169	2,909
1988	8,300	3,191	38.04%	676	20.66%	2,819	171	2,945
1989	8,650	3,718	42.99%	901	26.42%	2,956	181	3,144
1990	9,410	3,919	45.65%	988	22.90%	3,167	201	3,425
1991	9,480	3,517	37.10%	519	14.77%	3,189	204	3,443
1992	9,570	3,297	31.77%	404	12.47%	3,296	186	3,475
1993	9,510	3,148	35.00%	351	10.79%	3,296	191	3,487
1994	9,270	3,101	37.01%	418	12.17%	3,115	250	3,099
1995	9,770	4,220	41.10%	613	14.28%	3,293	240	3,571
1996	10,400	4,672	49.20%	902	22.12%	3,495	310	3,790
1997	10,227	4,973	47.01%	787	19.48%	3,505	310	3,862
1998	10,765	4,881	46.30%	752	19.31%	3,511	319	3,917
1999	10,650	4,694	46.90%	756	19.28%	3,560	321	3,955
2000	11,147	4,665	46.01%	779	19.59%	3,608	321	4,001
2001	11,190	4,401	46.00%	753	19.08%	3,637	320	4,092
2002	11,220	4,141	36.87%	750	18.90%	3,773	329	4,081
2003	11,314	4,156	36.82%	788	18.80%	3,808	311	4,119
2004	11,453	4,220	36.82%	790	18.77%	3,842	315	4,125
2005	11,520	4,241	36.79%	791	18.63%	3,873	315	4,139
2006	11,616	4,270	36.70%	791	19.51%	3,900	317	4,222
2007	11,700	4,298	36.73%	794	19.41%	3,931	319	4,222
2008	11,778	4,325	36.71%	794	19.38%	3,947	321	4,261
2009	11,850	4,377	36.88%	794	19.28%	3,961	322	4,307
2010	11,917	4,364	36.56%	794	18.83%	4,001	324	4,377
2011	11,976	4,330	36.10%	793	18.50%	4,025	325	4,351
2012	12,007	4,304	36.60%	793	18.50%	4,043	326	4,371
2013	12,049	4,319	36.60%	793	18.50%	4,060	327	4,394
2014	12,125	4,311	36.54%	793	17.99%	4,074	328	4,407
2015	12,181	4,341	36.51%	793	17.97%	4,087	328	4,420
2016	12,193	4,340	36.47%	792	17.94%	4,097	329	4,431
2017	12,217	4,334	36.46%	792	17.92%	4,105	329	4,440
2018	12,233	4,338	36.43%	792	17.86%	4,111	329	4,447
2019	12,247	4,339	36.41%	792	17.85%	4,115	329	4,451
2020	12,251	4,337	36.38%	792	17.84%	4,117	329	4,453

Annual Period Average (1980-1997)..... 35.73% 3.10% Standard Deviation (1980-1997)
 Annual Period Average (1998-2020)..... 36.68% 3.11% Long-Term Study Period (1980-1997)

Average per person..... M&I Factor Domestic use.....
 M&I Total Domestic Water Use per Person..... 351.4 Gallons per person per year
 (M&I Total Domestic Water Use Coefficient)..... 0.3488 Gallons per person per year
 Commercial & Industrial Water Use per Person..... 60.4 Gallons per person per year (excluding mining)
 (Commercial & Industrial Water Use Coefficient)..... 0.0582 Gallons per person per year (excluding mining)

Note: Coefficient M&I is equal to approximately 2.5 M&I gallons
 (1) Estimated water use is based on the water use per person of the resident population living in the county. See Item 2 of this O&A.
 (2) Data for mining is projected for the county, with 4M
 (3) M&I use is based on the public supplied water for domestic, commercial, and industrial use.
 Source: Population and House-Hold Demography, Population and House-Hold, Projections 2000-2020, Bureau of Economic Analysis, U.S. Census Bureau, 1997

White Pine County Water Withdrawal Forecasts

Part 2-Estimated M&I and Public & Self-Supplied Domestic Water Use (Acres-Foot)

Year-Actual 1960-1997 Forecast 2000-2018	Forecasted Population on Public Water System (1)	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self Supplied Domestic Water Use (2)	Forecasted Population on Public Water System (1)	Variable Percent of Population on Public Supply	Forecasted Public Supplied Domestic Water Use (1)	Forecasted Self Supplied Domestic Water Use (2)	Forecasted Municipal Domestic Water Use (3)
1980	7,214	2,247	197	—	—	—	—	—
1981	7,392	2,304	194	—	—	—	—	—
1982	7,548	2,374	190	—	—	—	—	—
1983	7,722	2,459	185	—	—	—	—	—
1984	7,904	2,501	189	—	—	—	—	—
1985	8,094	2,504	185	—	—	—	—	—
1986	8,264	2,461	191	—	—	—	—	—
1987	8,408	2,406	191	—	—	—	—	—
1988	8,524	2,505	202	—	—	—	—	—
1989	8,644	2,598	209	—	—	—	—	—
1990	8,764	2,692	227	—	—	—	—	—
1991	8,874	2,756	229	—	—	—	—	—
1992	8,911	2,784	231	—	—	—	—	—
1993	8,983	2,773	229	—	—	—	—	—
1994	9,055	2,801	224	—	—	—	—	—
1995	9,093	2,844	236	8,895	92.01%	2,243	236	2,551
1996	9,174	2,844	251	9,077	92.00%	2,244	250	2,731
1997	9,256	2,818	257	9,201	92.15%	2,320	256	2,869
1998	9,317	2,856	262	9,300	92.14%	2,360	263	3,016
1999	10,373	3,296	262	10,015	92.14%	2,490	262	3,061
2000	10,424	3,433	265	10,146	92.14%	2,477	269	3,004
2001	10,454	3,468	265	10,267	92.21%	2,472	264	3,047
2002	10,456	3,502	271	10,377	92.23%	2,503	266	3,087
2003	10,454	3,534	271	10,455	92.25%	2,544	267	3,126
2004	10,456	3,565	276	10,530	92.27%	2,573	269	3,163
2005	10,611	3,595	275	10,620	92.30%	2,594	270	3,168
2006	10,695	3,622	281	10,704	92.31%	2,582	272	3,212
2007	10,772	3,649	282	10,804	92.34%	2,591	273	3,263
2008	10,854	3,673	284	10,897	92.37%	2,585	274	3,284
2009	10,910	3,696	285	10,949	92.39%	2,594	275	3,310
2010	10,972	3,718	286	11,015	92.41%	2,590	275	3,319
2011	11,023	3,735	289	11,072	92.44%	2,590	276	3,368
2012	11,075	3,752	291	11,130	92.46%	2,590	276	3,399
2013	11,124	3,768	292	11,174	92.48%	2,582	277	3,408
2014	11,164	3,781	293	11,212	92.51%	2,590	277	3,425
2015	11,207	3,792	294	11,245	92.53%	2,592	277	3,439
2016	11,233	3,802	294	11,265	92.55%	2,622	277	3,451
2017	11,243	3,810	295	11,310	92.58%	2,634	276	3,461
2018	11,263	3,816	295	11,320	92.60%	2,634	276	3,469
2019	11,276	3,819	296	11,343	92.63%	2,642	275	3,474
2020	11,278	3,821	296	1,351	92.64%	2,642	274	3,477

Assumptions: M&I Factor - through only

M&I Domestic Use Factor (Public Supply) 351.4% 312.4% Gallons per person per day - public supply

Public Supply Water Use Factor (self-supply) 0.5048 0.5682 Acres-foot per person per day - self-supply

Domestic Water Use per Person - Self-Supplied Water 2,019 Gallons per person per day - self-supply

[Self-Supplied Water Use Coefficient] 0.644 Acres-foot per person per day

U.S. Bureau of Census Population on Public Supply 92,107 (4) Percent of total resident population

Var. Domestic Use per Capita population approximately 23.5% (3) (4)

(1) Public Supply - as reported in various sources, not all residents of public supply fed water systems

(2) Self-supply - as reported in various sources, not all residents of public supply fed water systems

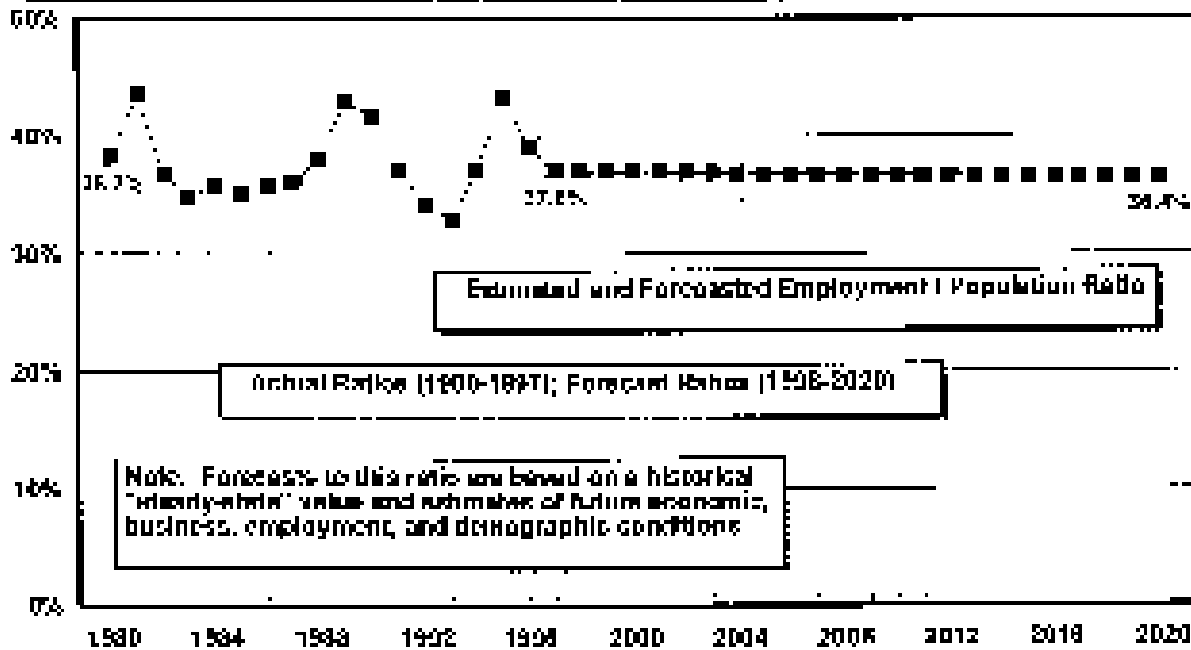
(3) M&I - as reported in various sources, not all residents of public supply fed water systems

(4) Public Supply - as reported in various sources, not all residents of public supply fed water systems

Nevada Socioeconomic Analysis and Forecasts

White Pine County Employment-to-Population Ratios

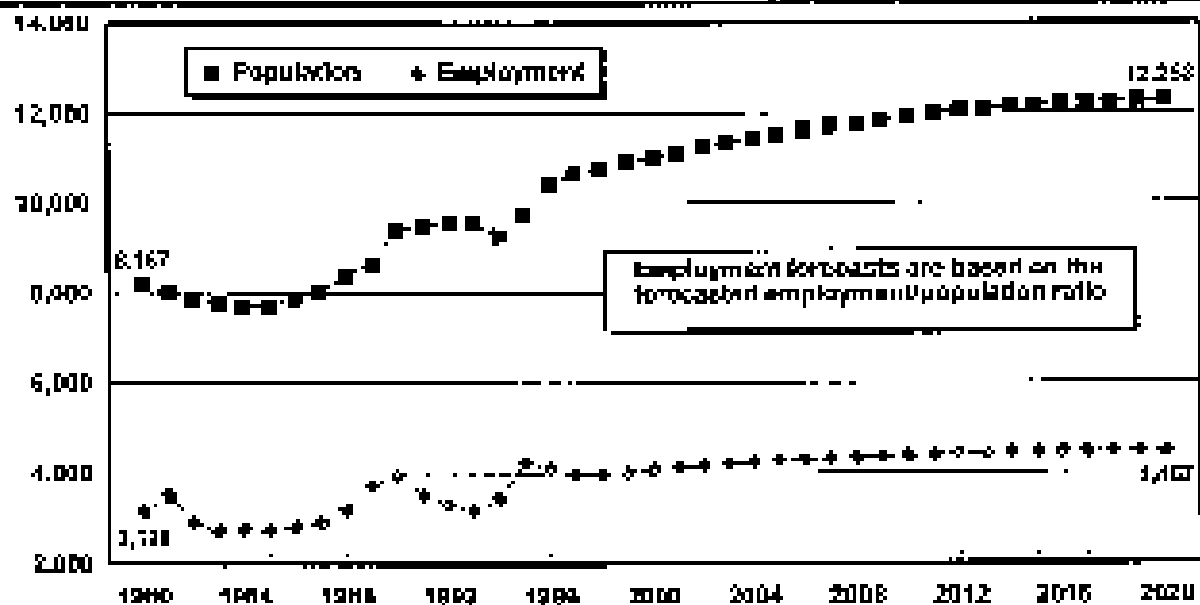
Ratio of Total Covered Employment to Total Population (Percent)



Source Data: Nevada State Demographer, DTR

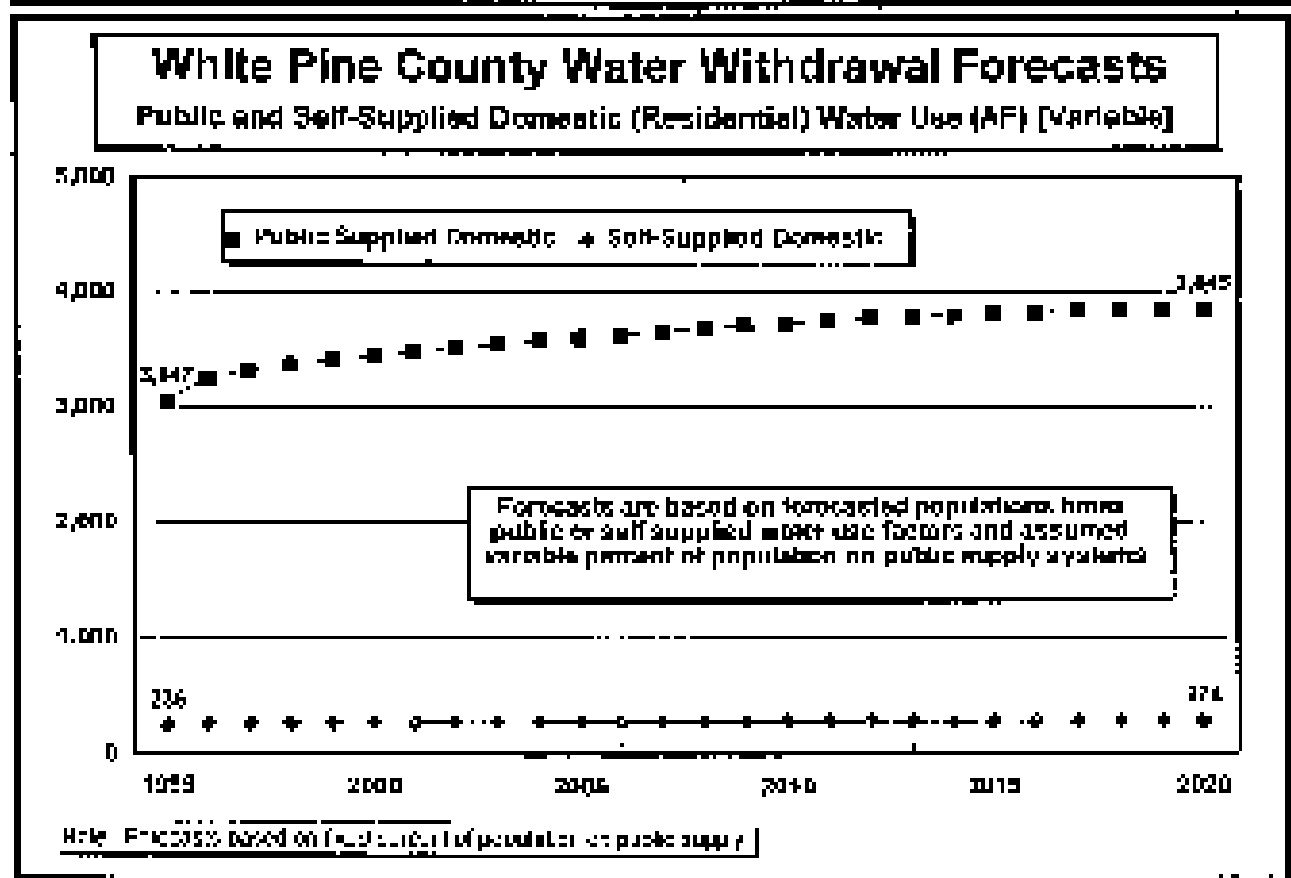
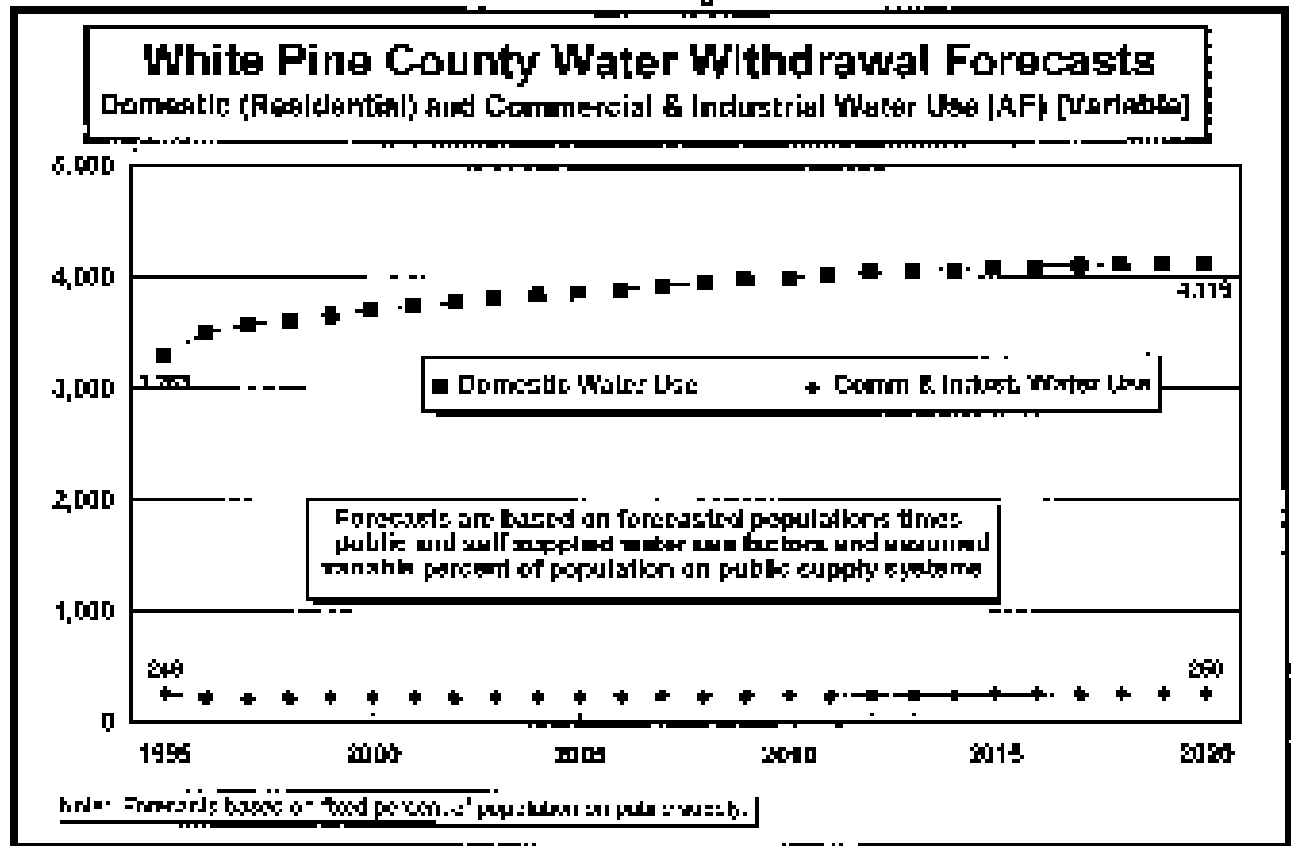
White Pine County Population & Employment Forecasts

Total Population (Persons) and Total Covered Employment (Workers)



Source Data: Nevada State Demographer, DTR

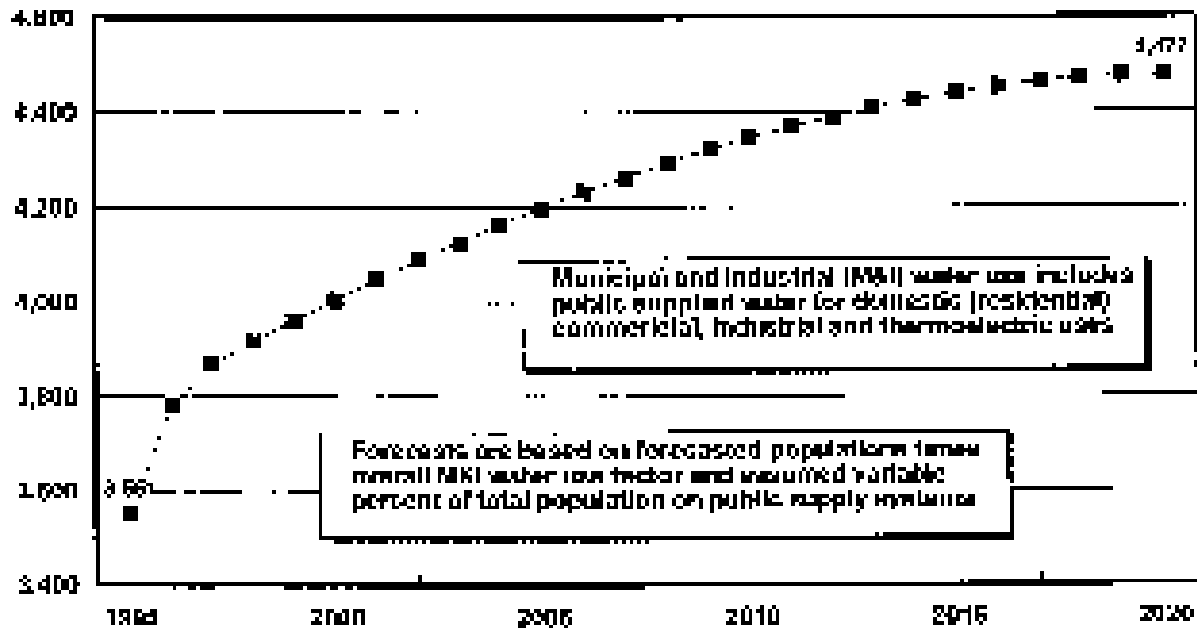
Nevada Water Use Analysis and Forecasts-1



Nevada Water Use Analysis and Forecasts-2

White Pine County Water Withdrawal Forecasts

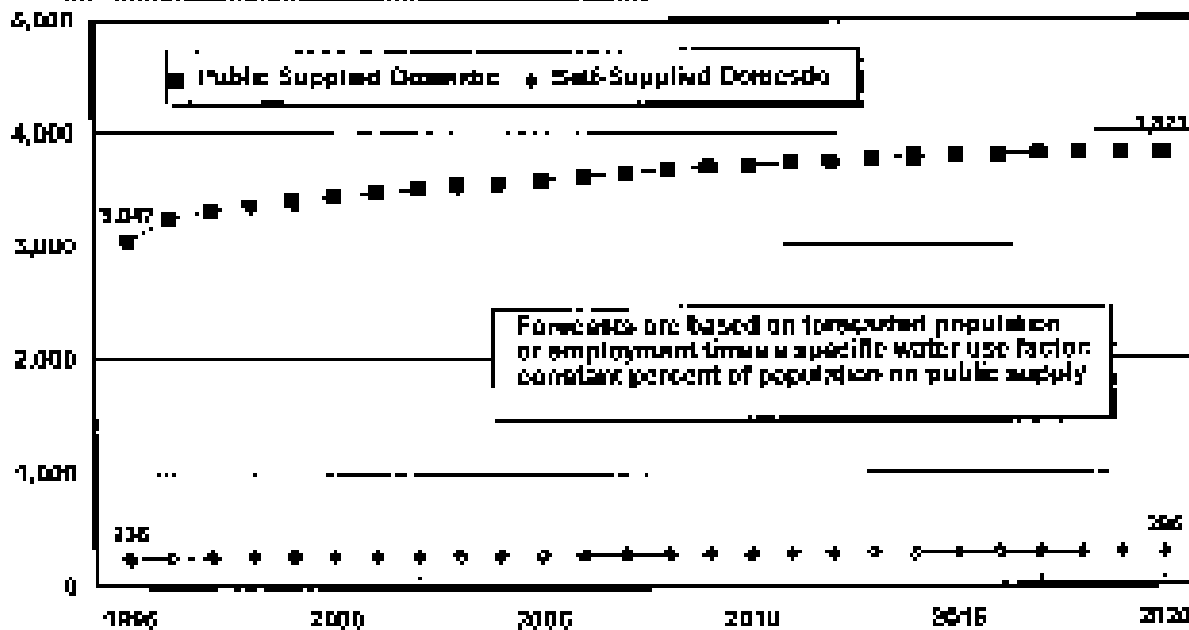
Total Municipal and Industrial (M&I) Water Use (AF) [Variable]



Note: Forecasts based on variable percent of population on public supply.

White Pine County Water Withdrawal Forecasts

Public and Self-Supplied Domestic Water Use (AF) [Fixed]



Note: Forecasts based on variable percent of population on public supply.

Nevada State Water Plan

**Appendix 4 – Forecasts of Nevada and
County Irrigated Acreage**

TABLES:

Table 1 — Nevada Agricultural Summary – Irrigated Acreage, Farm Marketings, Farm and Agricultural-Related Employment

Table 2 — Summary of Irrigated Acreage Estimates and Forecasts, Irrigation and Livestock Water Use, and Water Use Factors

Table 3 — State and County Estimated and Forecasted Irrigated Acreage

GRAPHS:

State and County Estimated and Forecasted Irrigated Acreage

Nevada Agricultural Summary

Irrigated Acreage, Farm Marketings and Farm-Related Employment

State/County	1971	1972	1982	1987	1990	1995
NEVADA						
Irrigated Acres	757,410	781,157	829,061	766,051	726,350	754,439
Farm Marketings (\$000s)	\$146,458	\$204,677	\$333,610	\$271,904	\$195,888	\$501,630
Total Agricultural-Related Employment	7,859	7,728	7,969	10,031	11,487	13,149
Farm Workers	4,570	5,259	5,110	5,625	5,260	4,962
Agricultural-Services Workers	3,289	2,469	2,729	4,406	6,227	8,187
Carson City						
Irrigated Acres	1,724	2,967	2,726	1,537	901	215
Farm Marketings (\$000s)	\$388	\$409	\$605	\$778	\$9.3	\$687
Total Agricultural-Related Employment	62	117	123	213	217	215
Farm Workers	17	39	15	47	40	39
Agricultural-Services Workers	45	78	78	126	177	186
Churchill County						
Irrigated Acres	52,472	56,161	55,777	62,529	61,490	56,096
Farm Marketings (\$000s)	\$16,797	\$24,250	\$36,287	\$35,979	\$38,716	\$54,165
Total Agricultural-Related Employment	617	709	514	490	829	752
Farm Workers	617	725	710	727	676	579
Agricultural-Services Workers	0	0	52	163	151	212
Clark County						
Irrigated Acres	112,290	107,116	81,062	77,889	77,504	77,051
Farm Marketings (\$000s)	\$8,921	\$13,056	\$14,605	\$16,839	\$18,613	\$20,333
Total Agricultural-Related Employment	941	1,111	1,799	2,661	4,312	6,298
Farm Workers	784	829	113	442	506	702
Agricultural-Services Workers	157	282	1,386	2,219	1,806	5,596
Douglas County						
Irrigated Acres	45,251	46,38	39,562	41,989	41,400	34,610
Farm Marketings (\$000s)	\$7,856	\$9,951	\$10,256	\$10,243	\$11,374	\$16,788
Total Agricultural-Related Employment	329	404	326	461	485	508
Farm Workers	302	380	281	323	336	271
Agricultural-Services Workers	27	24	57	138	149	237
Elko County						
Irrigated Acres	234,938	224,624	256,952	215,138	210,150	215,901
Farm Marketings (\$000s)	\$24,438	\$32,710	\$40,455	\$43,362	\$50,077	\$40,633
Total Agricultural-Related Employment	859	1,057	922	1,167	1,079	820
Farm Workers	528	946	958	1,024	941	638
Agricultural-Services Workers	331	111	64	143	138	182
Humboldt County						
Irrigated Acres	6,698	8,387	12,116	9,771	7,500	11,786
Farm Marketings (\$000s)	\$1,307	\$2,009	\$4,901	\$4,129	\$6,673	\$6,824
Total Agricultural-Related Employment	37	37	51	34	68	48
Farm Workers	37	37	51	34	68	45
Agricultural-Services Workers	0	0	0	0	0	3
Eureka County						
Irrigated Acres	31,247	29,806	31,372	25,006	44,700	32,780
Farm Marketings (\$000s)	\$3,955	\$7,276	\$9,515	\$8,936	\$11,251	\$10,000
Total Agricultural-Related Employment	134	223	171	159	139	138
Farm Workers	134	223	171	157	139	105
Agricultural-Services Workers	0	0	0	2	0	33

Nevada Agricultural Summary

Irrigated Acreage, Farm Marketings and Farm-Related Employment

State/County	1974	1978	1982	1987	1994	1995
Humboldt County						
Irrigated Acres	143,800	151,900	154,719	100,502	174,750	142,355
Farm Marketings (\$000s)	\$19,123	\$25,389	\$29,910	\$38,371	\$35,565	\$30,909
Total Agricultural-Related Employment	591	691	691	746	711	687
Farm Workers	505	619	577	593	579	565
Agricultural-Services Workers	86	72	114	153	132	122
Lander County						
Irrigated Acres	5,004	48,474	25,830	35,603	21,200	36,92
Farm Marketings (\$000s)	\$4,515	\$6,170	\$1,113	\$3,255	\$9,165	\$7,705
Total Agricultural-Related Employment	165	172	127	125	131	110
Farm Workers	165	165	125	124	131	108
Agricultural-Services Workers	0	7	0	0	0	2
Lincoln County						
Irrigated Acres	18,319	12,317	11,895	14,522	15,900	15,529
Farm Marketings (\$000s)	\$2,517	\$3,718	\$4,265	\$3,507	\$7,076	\$8,526
Total Agricultural-Related Employment	149	167	190	175	178	155
Farm Workers	149	164	159	173	178	149
Agricultural-Services Workers	0	3	3	2	0	6
Lyon County						
Irrigated Acres	\$6,893	\$1,148	\$9,095	\$1,218	\$1,600	\$6,975
Farm Marketings (\$000s)	\$16,080	\$22,343	\$21,475	\$5,119	\$50,871	\$48,190
Total Agricultural-Related Employment	897	716	645	827	785	714
Farm Workers	525	564	515	635	644	481
Agricultural-Services Workers	372	152	130	192	141	233
Mineral County						
Irrigated Acres	1,440	1,613	1,055	0	5,300	3,900
Farm Marketings (\$000s)	\$354	\$56	\$1,027	\$1,039	\$2,325	\$2,315
Total Agricultural-Related Employment	34	45	38	50	51	45
Farm Workers	24	40	39	38	47	35
Agricultural-Services Workers	0	5	0	12	4	10
Nye County						
Irrigated Acres	21,855	31,897	30,240	29,111	12,200	14,542
Farm Marketings (\$000s)	\$1,330	\$5,311	\$5,256	\$6,894	\$7,342	\$13,208
Total Agricultural-Related Employment	195	272	236	322	298	299
Farm Workers	173	236	214	287	268	200
Agricultural-Services Workers	22	36	22	35	30	99
Perkins County						
Irrigated Acres	35,681	40,386	38,837	42,795	1,100	27,368
Farm Marketings (\$000s)	\$14,975	\$25,706	\$29,124	\$19,337	\$27,871	\$25,544
Total Agricultural-Related Employment	345	319	255	250	258	190
Farm Workers	345	229	217	250	211	150
Agricultural-Services Workers	0	0	38	0	47	40
Storey County						
Irrigated Acres	15	50	41	0	0	240
Farm Marketings (\$000s)	50	50	40	40	30	50
Total Agricultural-Related Employment	0	0	0	0	0	0
Farm Workers	0	0	0	0	0	0
Agricultural-Services Workers	0	0	0	0	0	0

Nevada Agricultural Summary

Irrigated Acreage, Farm Marketings and Farm-Related Employment

State/County	1974	1978	1982	1987	1990	1995
Washoe County						
Irrigated Acres	27,034	61,730	25,028	32,191	34,570	37,048
Farm Marketings (\$1000s)	\$1,290	\$1,026	\$0,595	\$12,582	\$13,887	\$13,877
Total Agricultural-Related Employment	60	1,904	1,229	1,502	1,568	1,569
Farm Workers	20	400	191	178	250	267
Agricultural-Services Workers	40	1504	1038	1324	1318	1302
White Pine County						
Irrigated Acres	27,066	37,943	42,358	32,473	26,300	24,839
Farm Marketings (\$1000s)	\$4,125	\$6,613	\$9,259	\$9,386	\$8,805	\$8,118
Total Agricultural-Related Employment	20	250	352	260	209	210
Farm Workers	10	210	219	223	217	163
Agricultural-Services Workers	10	40	133	37	32	47

Note: Irrigated acreage figures for 1974, 1978, 1982 and 1987 are from the Bureau of Census, Agriculture Division.

Irrigated acreage figures for 1990 are obtained from the U.S. Geological Survey (USGS). Irrigated acreage for 1995 are

based on estimates by the Nevada Division of Water Planning (NDWP). Ag. Services Workers include agricultural service workers as well as forestry and fishing workers.

Nevada Forecasted Irrigation and Livestock Water Use

Irrigated Acreage, Water Duty, Irrigation Water Use, Livestock Water Use
and Total Agricultural Water Use (Acres and Acre-Feet per Year)

State/County	1995	2000	2005	2010	2015	2020
Total Nevada						
Total Irrigated Acreage	715,439	727,509	715,950	700,742	685,217	665,755
Total Irrigation Water Use	3,115,385	3,160,751	3,178,345	3,045,616	2,970,521	2,895,405
Percent of Agricultural Withdrawals Based on Irrigation Water Duty of	99.80%	99.75%	99.71%	99.69%	99.79%	99.77%
Total Livestock Water Use	4.4	15	43	123	433	475
Percent of Agricultural Withdrawals As a Percent of Irrigation Use	0.14%	0.21%	0.21%	0.21%	0.21%	0.21%
Total Agricultural Water Use	3,119,914	3,160,738	3,115,372	3,053,058	2,970,786	2,901,522
Carson City						
Total Irrigated Acreage	2,131	1,651	1,915	2,250	1,494	1,435
Total Irrigation Water Use	10,715	7,571	7,091	5,810	6,789	6,335
Based on Irrigation Water Duty of	5.4					
Total Livestock Water Use	11	2	3	7	7	7
As a Percent of Irrigation Use	0.10%					
Total Agricultural Water Use	10,721	7,573	7,098	5,817	6,799	6,355
Churchill County						
Total Irrigated Acreage	35,054	34,524	34,110	33,583	33,091	32,690
Total Irrigation Water Use	250,553	248,379	245,571	245,357	243,275	241,012
Based on Irrigation Water Duty of	4.6					
Total Livestock Water Use	512	653	649	643	537	491
As a Percent of Irrigation Use	0.20%					
Total Agricultural Water Use	251,023	249,025	246,219	246,180	243,912	241,541
Clark County						
Total Irrigated Acreage	7,755	7,330	7,566	7,352	7,335	7,525
Total Irrigation Water Use	40,292	39,354	39,212	39,239	39,167	39,095
Based on Irrigation Water Duty of	5.2					
Total Livestock Water Use	280	274	293	375	273	272
As a Percent of Irrigation Use	0.69%					
Total Agricultural Water Use	40,572	39,658	39,505	39,612	39,439	39,366
Douglas County						
Total Irrigated Acreage	38,640	37,877	37,330	36,554	35,746	34,937
Total Irrigation Water Use	189,544	185,709	182,895	179,511	175,546	171,281
Based on Irrigation Water Duty of	4.9					
Total Livestock Water Use	259	253	245	241	238	233
As a Percent of Irrigation Use	0.14%					
Total Agricultural Water Use	189,807	186,012	183,134	179,755	175,785	171,614
Elko County						
Total Irrigated Acreage	213,908	214,057	211,077	207,496	200,001	196,506
Total Irrigation Water Use	908,643	909,087	895,641	885,014	852,237	843,657
Based on Irrigation Water Duty of	4.2					
Total Livestock Water Use	1,701	1,750	1,680	1,601	1,615	1,587
As a Percent of Irrigation Use	0.19%					
Total Agricultural Water Use	910,347	910,797	898,121	886,555	863,551	845,248

Nevada Forecasted Irrigation and Livestock Water Use

Irrigated Acreage, Water Duty, Irrigation Water Use, Livestock Water Use and Total Agricultural Water Use (Acres and Acre-Feet per Year)

State/County	1995	2000	2005	2010	2015	2020
Esmeralda County						
Total Irrigated Acreage	11,386	11,704	11,634	11,490	10,040	9,181
Total Irrigation Water Use	49,687	47,522	46,850	43,786	41,424	39,062
Based on Irrigation Water Duty of	4.4					
Total Livestock Water Use	129	118	110	111	110	107
As a Percent of Irrigation Use	0.258%					
Total Agricultural Water Use	49,816	47,640	46,962	43,897	41,534	39,169
Esmeralda County						
Total Irrigated Acreage	32,788	38,004	37,495	36,782	31,802	31,021
Total Irrigation Water Use	124,559	144,523	142,812	140,192	126,019	137,394
Based on Irrigation Water Duty of	3.8					
Total Livestock Water Use	171	152	179	175	172	168
As a Percent of Irrigation Use	0.138%					
Total Agricultural Water Use	124,730	144,675	142,991	140,367	126,191	137,561
Humboldt County						
Total Irrigated Acreage	142,554	144,956	141,487	136,988	131,536	126,067
Total Irrigation Water Use	599,814	609,851	595,037	575,105	555,466	530,379
Based on Irrigation Water Duty of	4.2					
Total Livestock Water Use	627	635	625	615	599	590
As a Percent of Irrigation Use	0.105%					
Total Agricultural Water Use	600,442	610,486	595,662	575,720	556,065	530,969
Lander County						
Total Irrigated Acreage	16,192	14,513	14,119	13,568	12,012	11,256
Total Irrigation Water Use	161,381	154,050	152,119	149,680	146,750	143,810
Based on Irrigation Water Duty of	4.5					
Total Livestock Water Use	330	321	317	312	306	300
As a Percent of Irrigation Use	0.205%					
Total Agricultural Water Use	161,711	154,371	152,436	149,992	147,056	144,110
Lincoln County						
Total Irrigated Acreage	15,620	15,477	15,412	15,210	15,157	15,066
Total Irrigation Water Use	65,037	61,899	61,526	61,197	61,607	61,030
Based on Irrigation Water Duty of	4.2					
Total Livestock Water Use	125	122	121	120	119	118
As a Percent of Irrigation Use	0.193%					
Total Agricultural Water Use	65,162	62,021	61,647	61,317	61,726	61,148
Lyon County						
Total Irrigated Acreage	50,975	61,317	60,543	58,884	59,645	58,207
Total Irrigation Water Use	306,076	306,619	303,782	301,455	297,213	292,901
Based on Irrigation Water Duty of	6.0					
Total Livestock Water Use	448	451	446	440	434	426
As a Percent of Irrigation Use	0.146%					
Total Agricultural Water Use	306,524	307,070	304,228	301,895	297,647	293,327

Nevada Forecasted Irrigation and Livestock Water Use

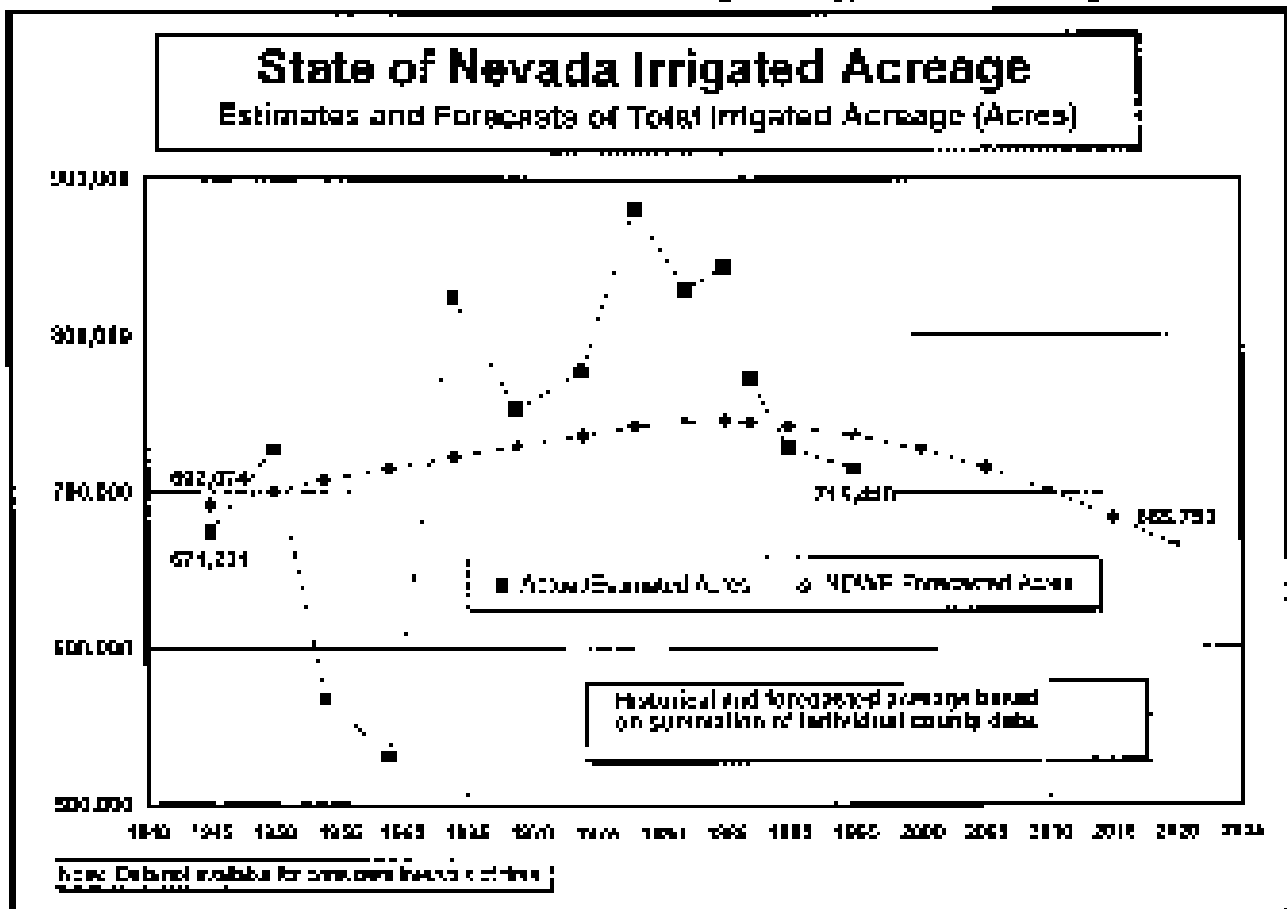
Irrigated Acreage, Water Duty, Irrigation Water Use, Livestock Water Use
and Total Agricultural Water Use (Acres and Acre-Feet per Year)

State/County	1995	2000	2005	2010	2015	2020
Mineral County						
Total Irrigated Acreage	2,900	5,014	4,894	4,321	1,576	5,001
Total Irrigation Water Use	15,682	27,059	26,467	25,691	21,714	18,707
Based on Irrigation Water Duty of	5.4					
Total Livestock Water Use	34	58	57	55	53	51
As a Percent of Irrigation Use	0.219%					
Total Agricultural Water Use	15,716	27,117	26,524	25,746	21,767	18,758
Nye County						
Total Irrigated Acreage	14,743	10,760	10,735	10,440	19,073	15,791
Total Irrigation Water Use	66,233	81,762	80,961	79,151	77,931	76,409
Based on Irrigation Water Duty of	4.5					
Total Livestock Water Use	729	1,006	969	975	957	958
As a Percent of Irrigation Use	1.127%					
Total Agricultural Water Use	67,962	82,768	81,930	80,126	78,888	77,367
Perkins County						
Total Irrigated Acreage	27,368	29,079	29,511	27,668	28,851	25,974
Total Irrigation Water Use	115,962	121,270	121,546	118,339	114,667	111,064
Based on Irrigation Water Duty of	4.3					
Total Livestock Water Use	178	274	268	261	252	245
As a Percent of Irrigation Use	0.221%					
Total Agricultural Water Use	117,740	121,544	121,814	118,600	114,919	111,309
Storey County						
Total Irrigated Acreage	370	387	255	232	220	227
Total Irrigation Water Use	1,008	797	789	780	771	763
Based on Irrigation Water Duty of	2.7					
Total Livestock Water Use	0	0	0	0	0	0
As a Percent of Irrigation Use	0.000%					
Total Agricultural Water Use	1,008	797	789	780	771	763
Washoe County						
Total Irrigated Acreage	27,048	25,216	25,671	23,483	32,176	26,869
Total Irrigation Water Use	121,532	115,591	110,555	105,516	95,644	93,772
Based on Irrigation Water Duty of	4.5					
Total Livestock Water Use	295	377	366	351	319	325
As a Percent of Irrigation Use	0.246%					
Total Agricultural Water Use	121,827	115,968	110,921	105,867	95,963	94,097
White Pine County						
Total Irrigated Acreage	21,809	26,971	16,117	15,471	24,759	24,007
Total Irrigation Water Use	61,187	90,327	58,520	56,329	81,813	61,266
Based on Irrigation Water Duty of	2.8					
Total Livestock Water Use	369	269	253	276	268	260
As a Percent of Irrigation Use	0.619%					
Total Agricultural Water Use	61,556	90,596	58,773	56,605	82,081	61,526

Note: 1995 figures on irrigated acres based on U.S. Geological Survey (USGS) estimates, modified by the Nevada Division of Water Planning (NDWP). Projections through 2020 based on 1995 water use and relationships and NDWP forecasted irrigated acreage trends. Livestock water use as a percent of irrigation water use based on 1990 USGS data.

Source: Forecasted Acreage—2015 and 2020; Irrigated Acreage—2005; Irrigation Water Duty—1.863; Livestock water use rate—0.61%.

Nevada Forecasts of County Irrigated Acreage



Source: Historical data (1945-1990) - U.S. Bureau of the Census, Agricultural Census (1990, 1995, U.S. Geological Survey (USGS), 1995 estimate and 2000-2020 forecasts - Nevada Division of Water Planning (NDWP)

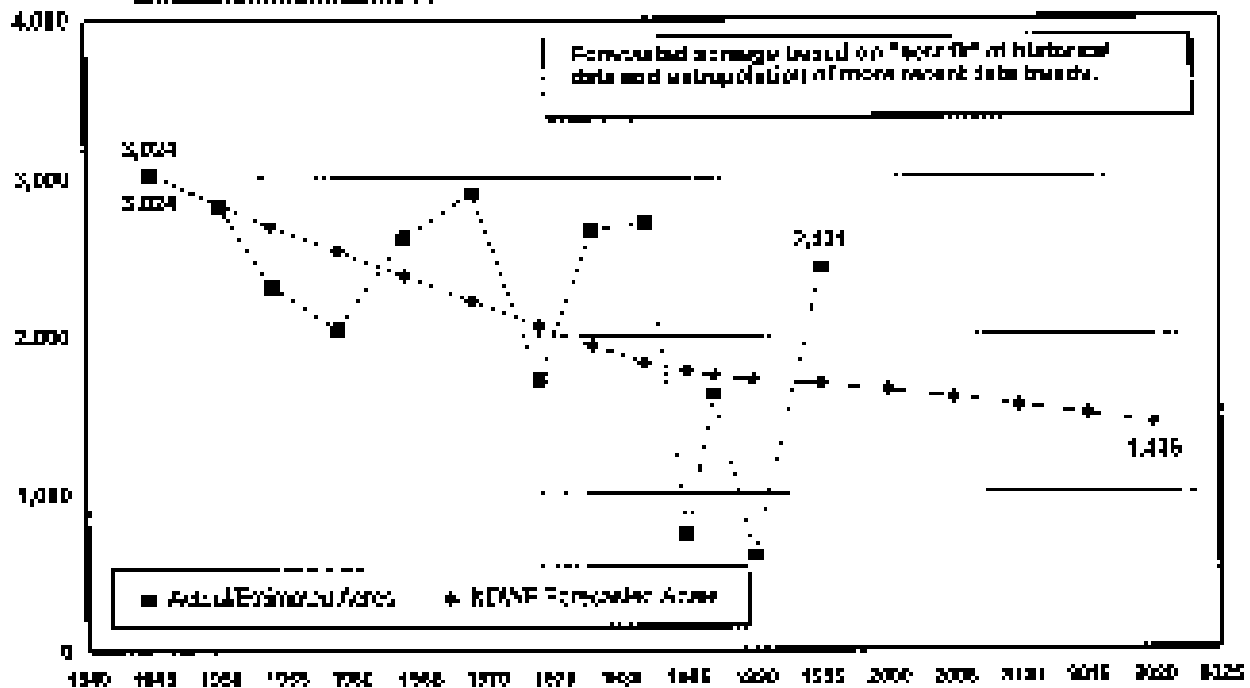
State of Nevada
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Years	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1940	674,234	582,334
1950	727,498	700,149
1954	667,498	767,558
1959	681,515	715,105
1964	684,629	722,458
1969	722,658	728,665
1974	777,620	736,620
1979	681,515	741,515
1982	699,760	745,000
1985	693,760	745,545
1987	703,828	744,601
1990	729,366	742,106
1993	715,440	727,300
2000		715,363
2005		700,742
2010		683,247
2015		665,733

Nevada Forecasts of County Irrigated Acreage

Carson City

Estimates and Forecasts of Total Irrigated Acreage (Acres)



Note: Data not available for certain transitional years.

Source: Historical data (1940-1912-1917)-U.S. Bureau of the Census, Agriculture Division, 1975, 1994-2005; National Science Foundation (1975), Irrigation and 2000-2025 forecast by Nevada State Division of Water Planning (NDFP).

Carson City

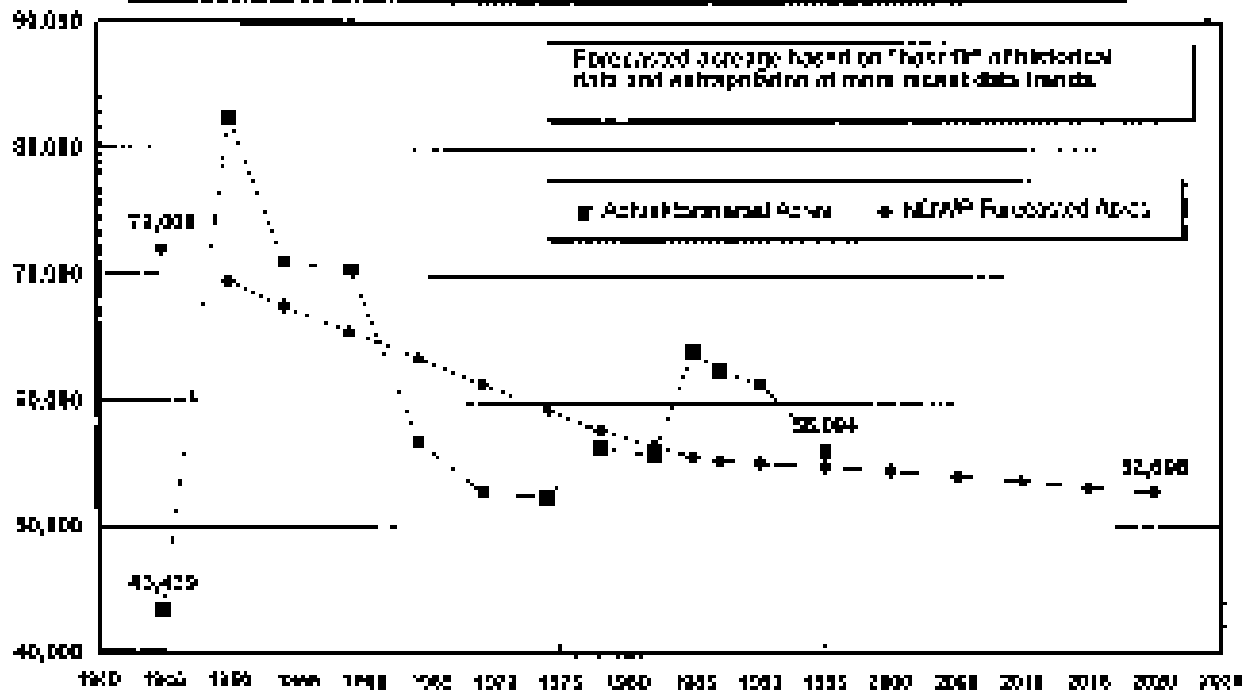
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Years	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1941	3,024	3,024
1944	2,845	2,845
1954	2,675	2,675
1955	2,541	2,541
1957	2,331	2,331
1964	1,727	2,064
1976	1,567	1,957
1983	1,170	1,830
1985	940	1,710
1987	1,022	1,641
1990	600	1,519
1995	1,437	1,689
2000		1,651
2005		1,625
2010		1,593
2015		1,544
2020		1,476

Nevada Forecasts of County Irrigated Acreage

Churchill County

Estimates and Forecasts of Total Irrigated Acreage (Acres)



Note: Forecast includes Groundwater Acreage. (Dotted line)

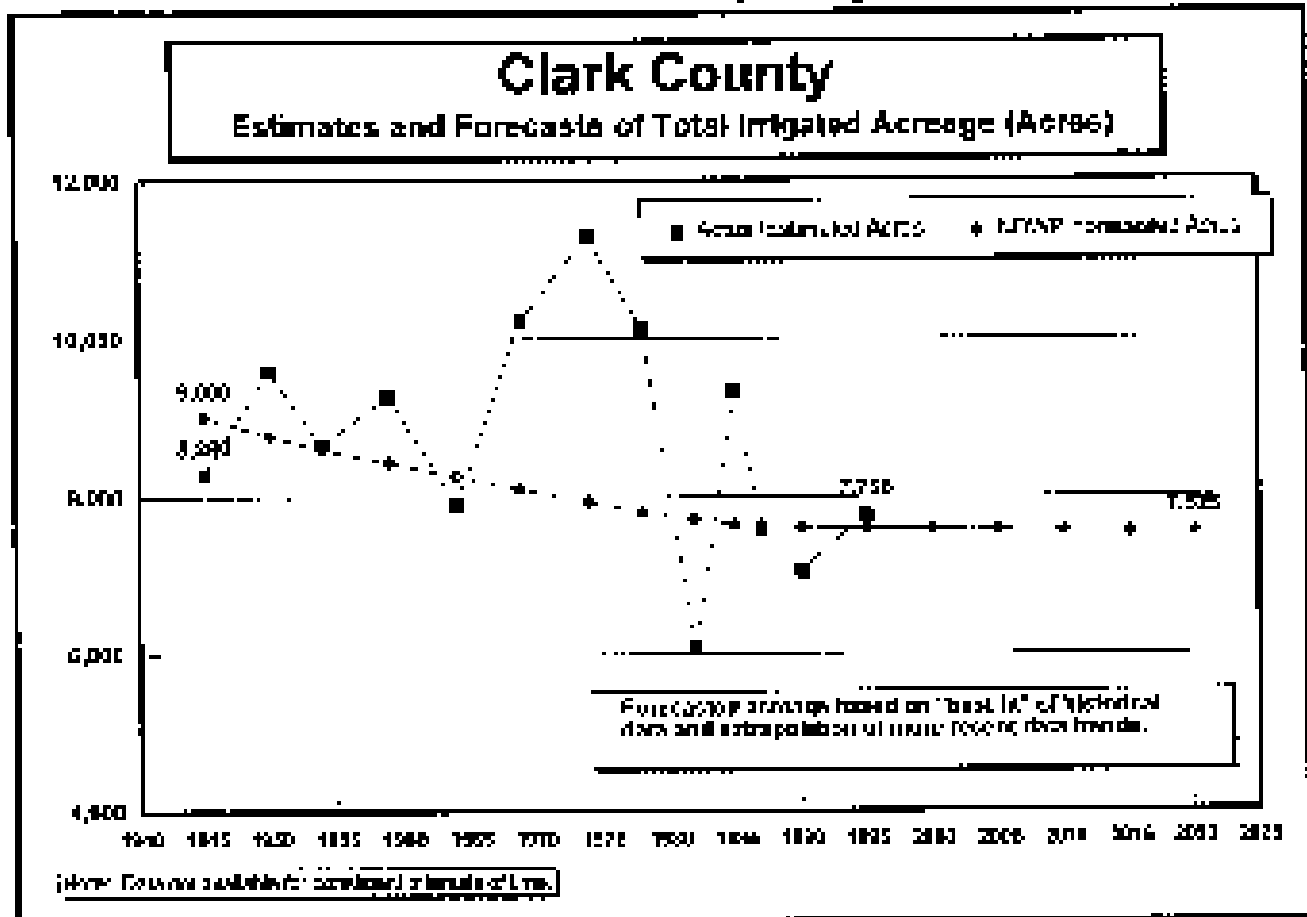
Source: National Water Research Institute, 1940-1995; U.S. Census of the Nation, Agriculture Division, 1945-1995; U.S. Geological Survey, 1995; National and State Water Research Institute, Nevada Division of Water Forecast (NWRAP).

Churchill County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	43,429	73,000
1950	69,468	69,468
1954	70,095	67,479
1959	70,425	65,468
1964	66,850	63,452
1969	62,888	61,454
1974	57,077	59,419
1979	56,161	57,817
1982	55,777	56,515
1985	64,050	55,721
1987	62,720	55,383
1990	61,100	54,889
1995	59,091	53,064
2000		51,504
2005		51,150
2010		50,883
2015		51,119
2020		51,504

Nevada Forecasts of County Irrigated Acreage



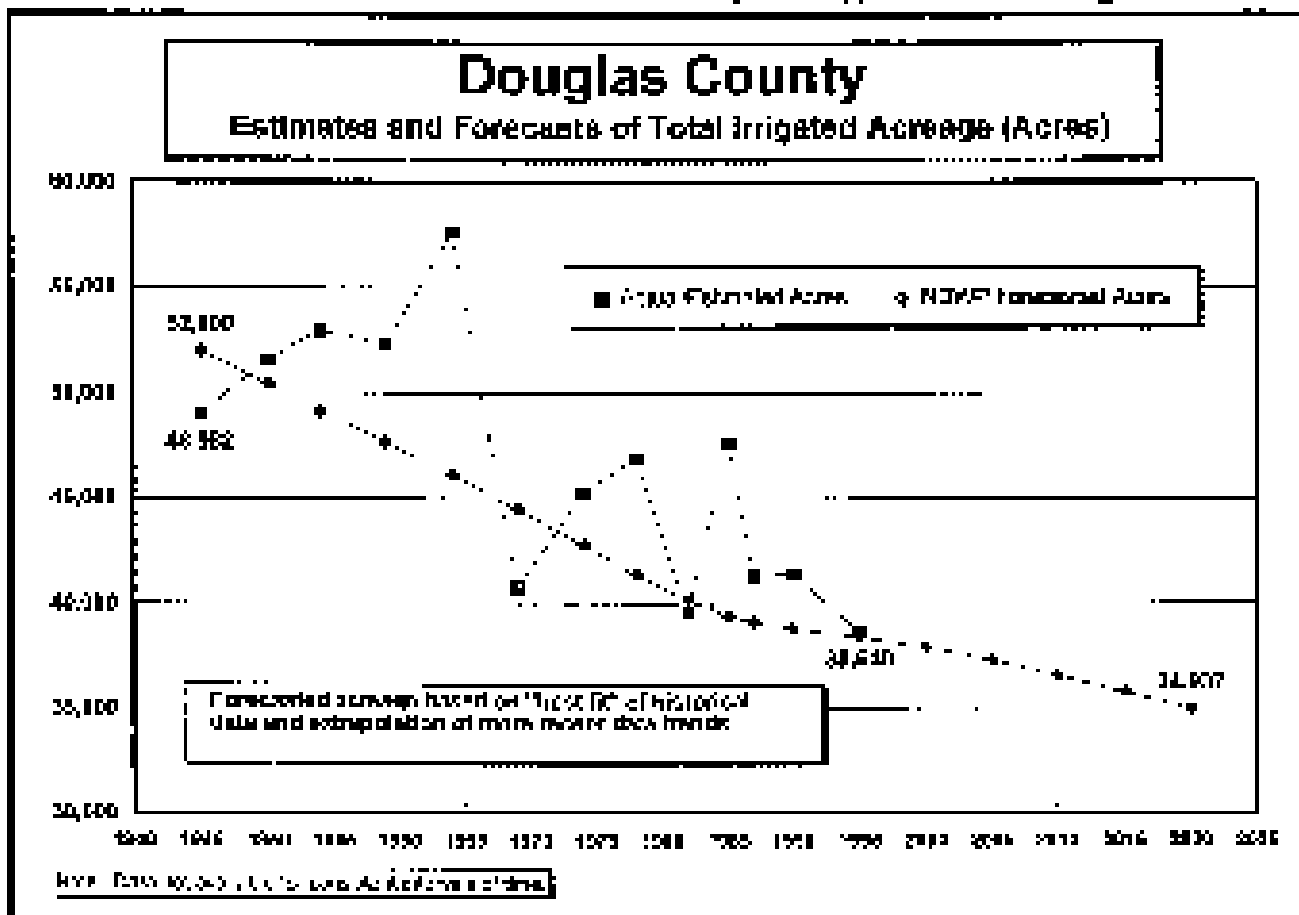
Source: USDA Census of Agriculture (1945-1947, 1952-1954, 1959-1961, 1967-1978, 1982-1984, 1987-1997, 2002-2009, 2013-2014, 2018-2019, 2022-2023); Nevada Department of Water Planning (NWDWP) Geographical Services (2020, 1997) and 2014-2023 forecasts—Nevada Department of Water Planning (NWDWP)

Clark County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Reported Irrigated Acreage	County Forecasted Irrigated Acreage
1945	8,200	8,000
1950	8,500	8,750
1954	8,500	8,600
1959	9,200	8,420
1964	7,800	8,100
1967	10,210	8,000
1974	11,300	7,800
1978	10,110	7,800
1982	6,000	7,700
1985	9,200	7,600
1987	7,800	7,500
1990	7,000	7,400
1995	7,750	7,350
2000		7,300
2005		7,250
2010		7,150
2015		7,050
2020		7,350

Nevada Forecasts of County Irrigated Acreage



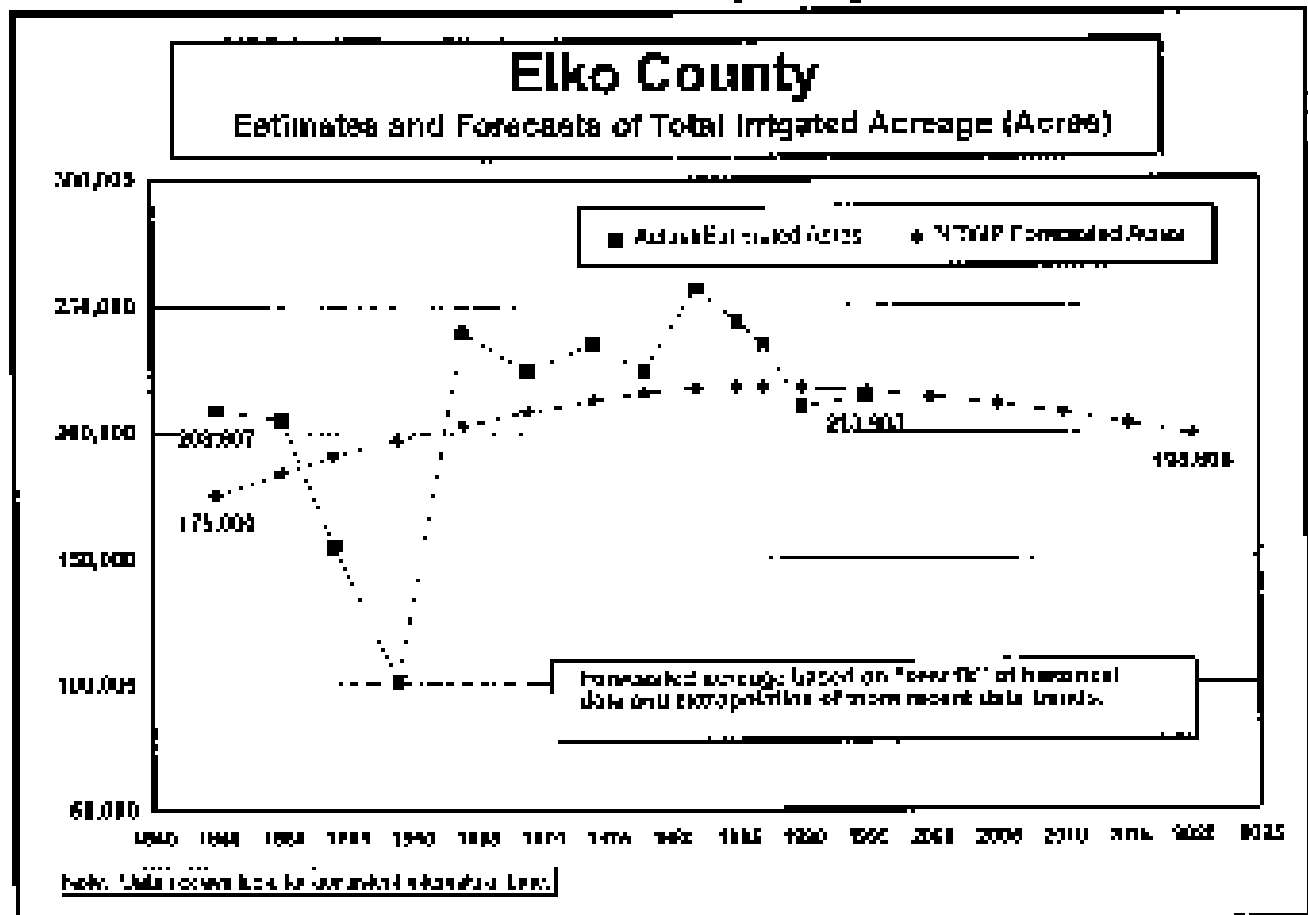
Source: Bureau of Reclamation (1940-1950), 1951-1955, Bureau of Reclamation (1956-1960), 1961-1965, 1966-1970, 1971-1975, 1976-1980, 1981-1985, 1986-1990, 1991-1995, 1996-2000, 2001-2005, 2006-2010, 2011-2015, 2016-2020, 2021-2025, 2026-2030, 2031-2035.

Douglas County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1940	46,562	52,800
1945	51,000	51,000
1950	53,940	48,000
1955	57,000	46,000
1960	48,000	44,000
1965	41,000	42,000
1970	45,000	40,000
1975	47,000	39,000
1980	41,000	38,000
1985	41,000	37,000
1990	39,000	36,000
1995	38,000	35,000
2000		34,000
2005		33,000
2010		32,000
2015		31,000
2020		30,000
2025		29,000
2030		28,000
2035		27,000

Nevada Forecasts of County Irrigated Acreage



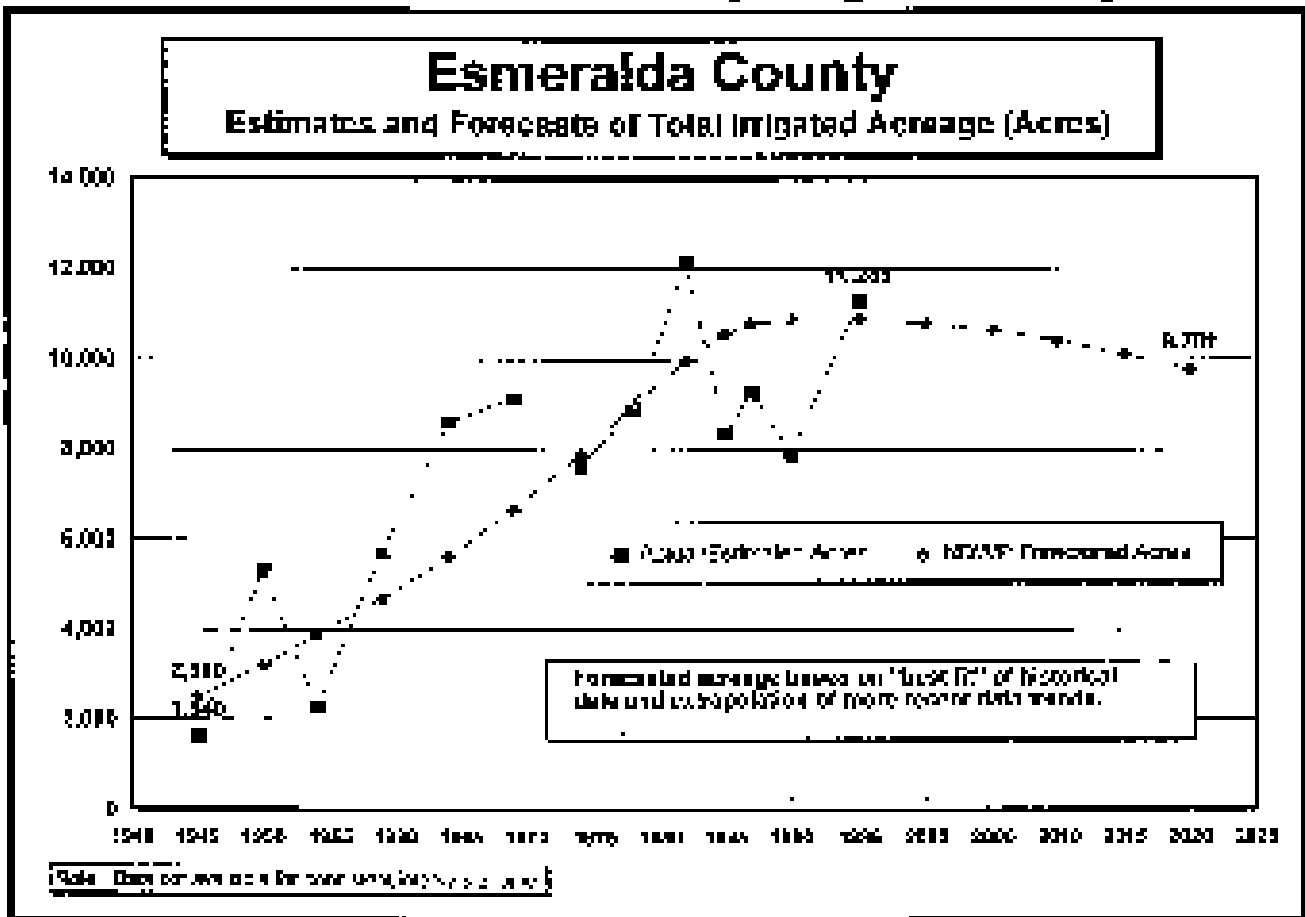
Source: Historical data 1945-1995, 1997-2000, Bureau of Land Management (Bureau of Reclamation) 1994, 1996-2000
 Geopack Survey (1985), 1999 estimate and 2000-2020 forecast - Nevada Division of Water Planning (2009)

Elko County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	Forecasted Irrigated Acreage
1945	203,907	175,000
1950	204,844	183,750
1951	101,000	100,000
1959	101,000	176,854
1964	259,206	259,600
1969	224,072	200,500
1974	234,838	212,460
1978	224,624	215,581
1987	226,932	217,400
1987	215,288	213,100
1990	210,150	210,000
1995	213,503	212,100
2000		214,007
2005		211,007
2010		207,506
2015		207,001
2020		198,000

Nevada Forecasts of County Irrigated Acreage



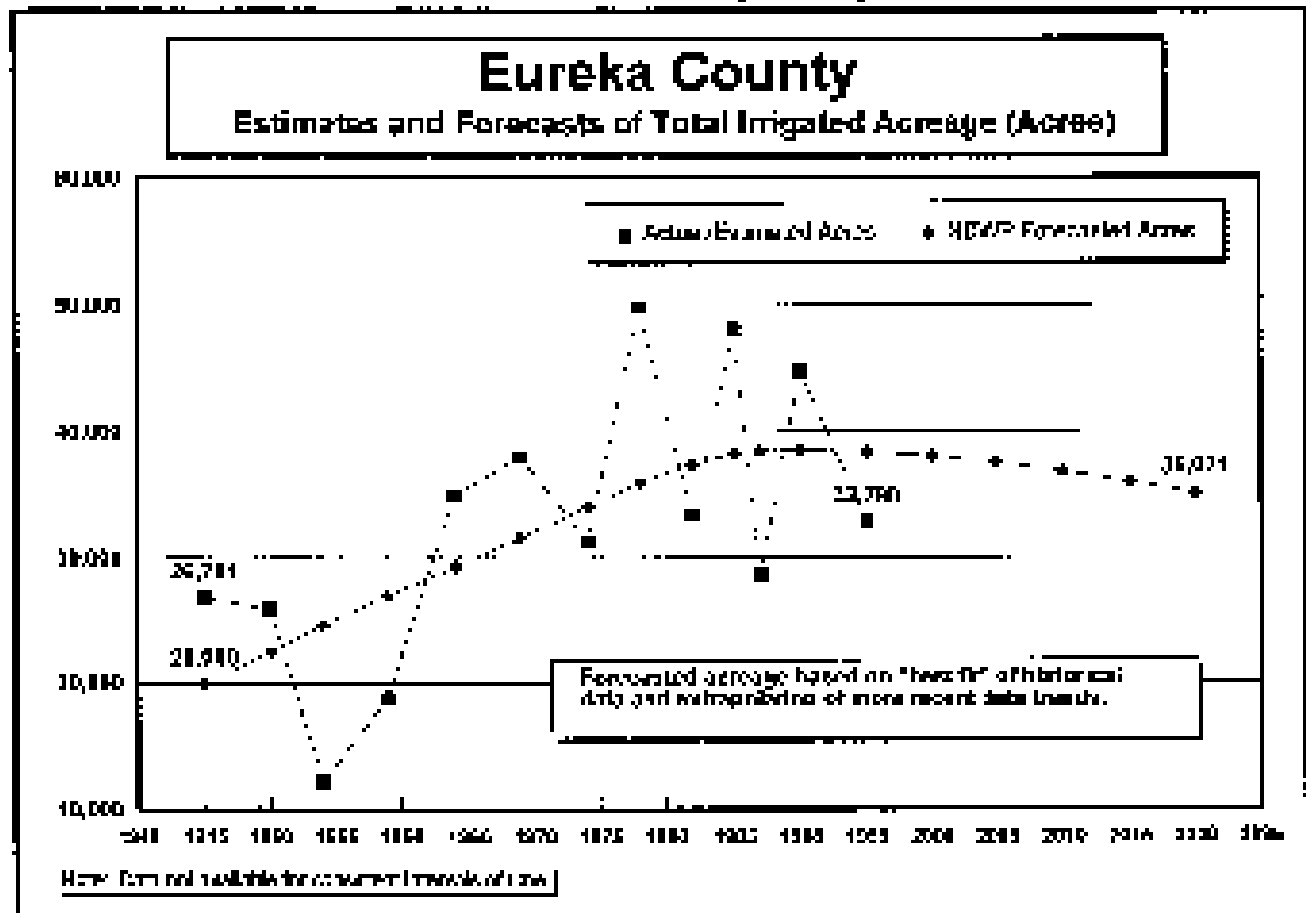
Source: Historical Data, 1943-1990, 3873-425, Bureau of the United States Agriculture Department, 1982, 1990-1992
 National Survey, 1987-91, 55 and 104, and 2000-1, 20, California-Southern Division of Water Planning, NDWR

Esmeralda County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1943	1,640	2,500
1950	3,114	3,118
1951	3,264	3,800
1959	5,310	4,688
1961	8,292	5,591
1962	9,150	6,663
1974	7,658	7,895
1978	8,881	9,006
1982	10,115	9,963
1985	8,504	10,369
1987	9,273	10,781
1990	7,900	10,863
1995	11,236	10,372
2014		10,091
2015		10,275
2016		10,400
2017		10,520
2020		9,781

Nevada Forecasts of County Irrigated Acreage



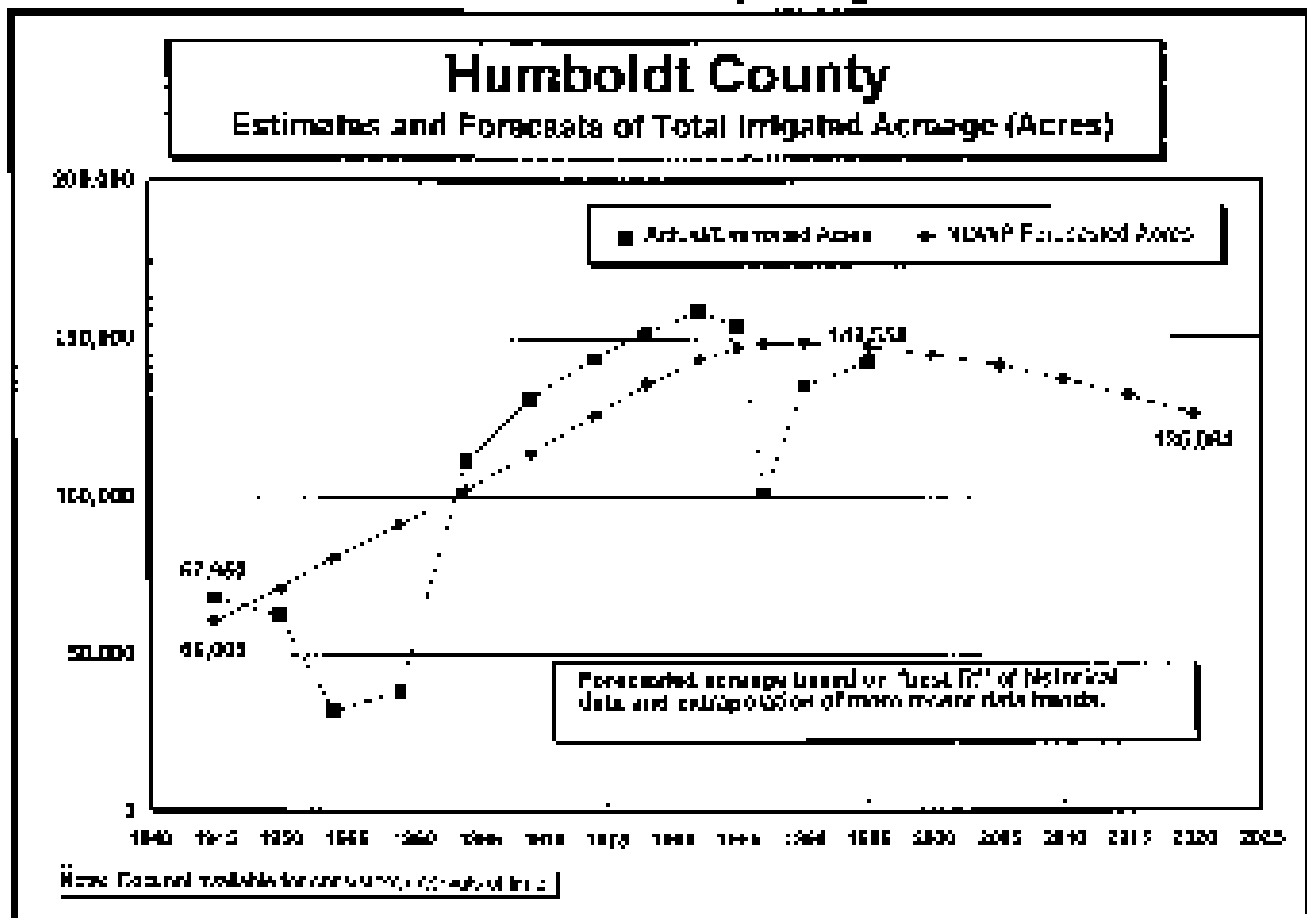
Source: H&M Consulting (1945-1987), U.S. Bureau of the Census, Agriculture (1945-1990), 1995-1998 U.S. Geological Survey (1998), 1997 estimates and 2000-2020 forecasts, Nevada Division of Water Planning (2009-2015).

Eureka County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	26,781	26,020
1950	23,853	23,920
1954	12,167	24,620
1959	18,807	26,924
1962	31,247	29,218
1968	40,805	31,564
1972	33,172	33,915
1975	18,010	35,221
1987	28,916	36,479
1990	42,700	38,519
1995	22,730	39,167
2000		38,024
2004		37,408
2010		36,788
2015		35,400
2020		35,024

Nevada Forecasts of County Irrigated Acreage



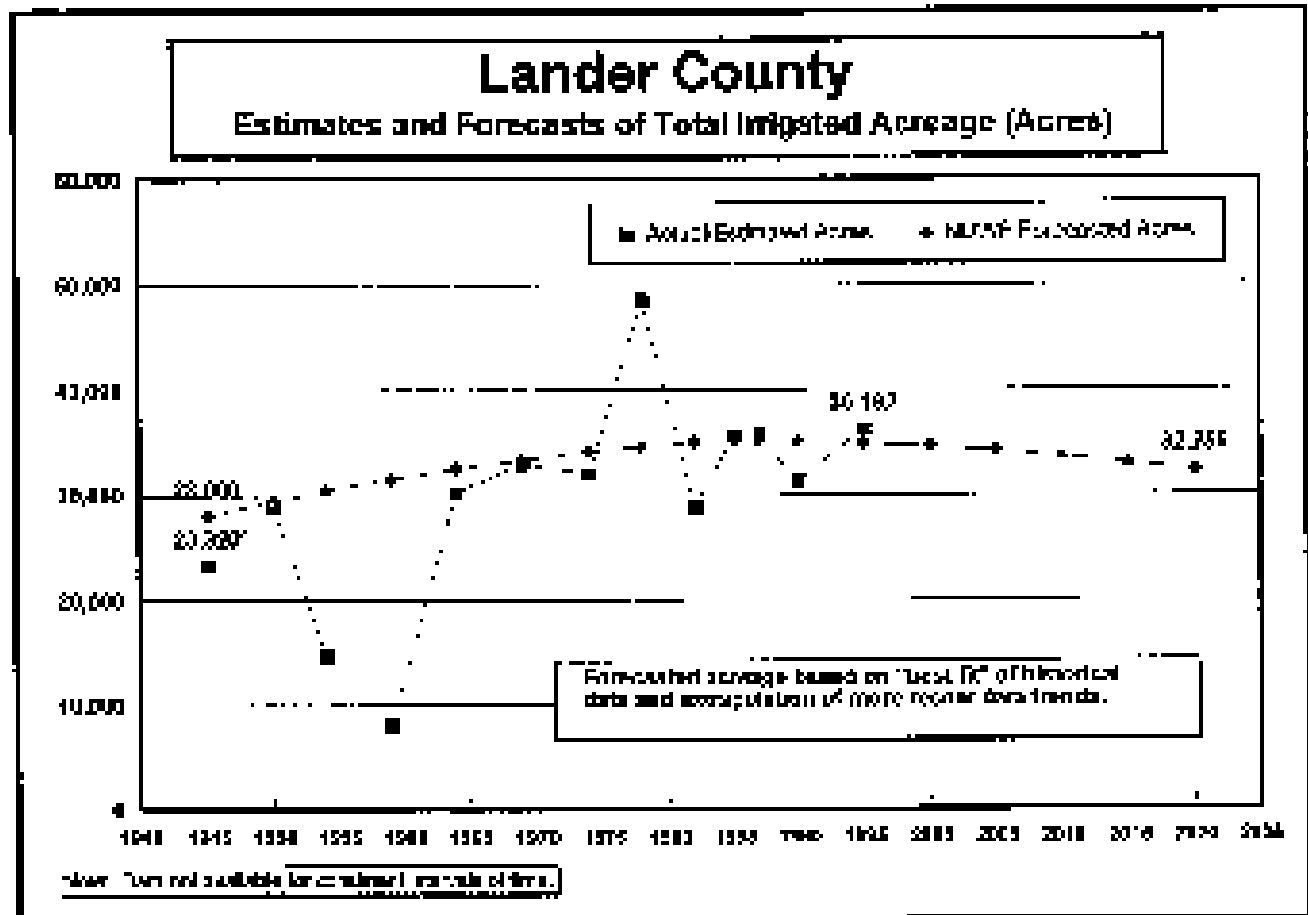
Source: USDA, National Resources Inventory (NRI), 1982, 1987, and 2002; Bureau of the Census, Agriculture, 1990, 1996, U.S. Census of Agriculture (USCA), 1997; National Agricultural Statistics Service - Nevada Department of Water Planning (NDWP)

Humboldt County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1940	67,950	60,500
1945	62,000	70,500
1950	70,500	80,540
1955	79,100	90,400
1964	111,215	102,044
1969	120,570	113,550
1974	143,500	125,030
1978	151,508	135,443
1982	158,116	141,050
1985	159,490	143,164
1987	160,972	145,481
1990	164,750	148,720
1995	167,363	147,363
2000		144,916
2005		141,447
2010		139,948
2015		141,520
2020		136,054

Nevada Forecasts of County Irrigated Acreage



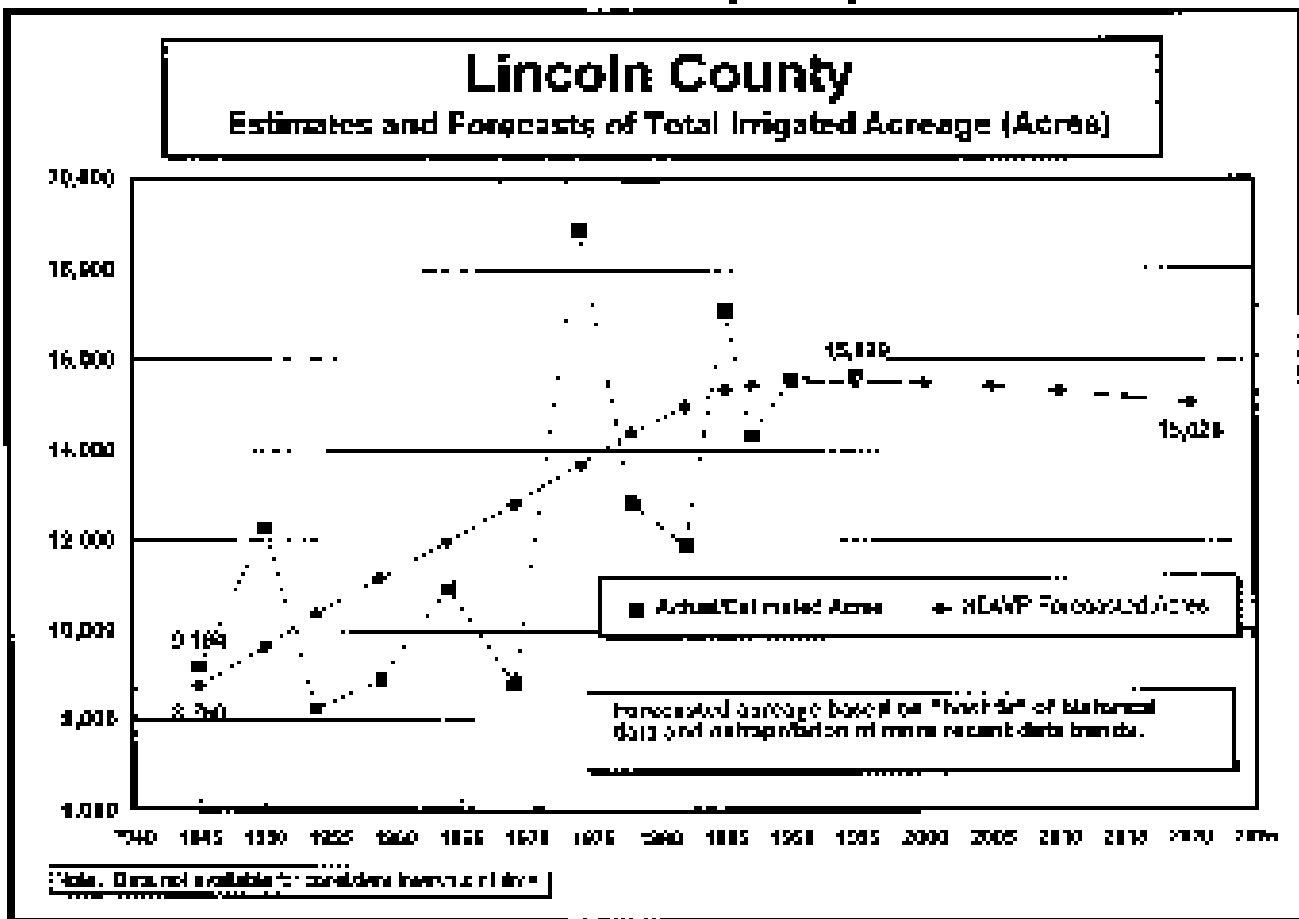
Source: Adapted from 1940-1995, 1997-2000, Bureau of Economic Analysis, Bureau of Economic Analysis, 1999-2000, U.S. Geological Survey (USGS), 1995 and 2000-2025 Forecasts, Nevada Division of Water Planning, NWRP

Lander County

Refinements and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1940	28,000	28,000
1950	20,300	20,410
1954	24,620	24,600
1970	28,130	28,100
1984	30,213	30,175
1989	32,066	32,040
1991	31,594	31,114
1998	34,401	34,401
1982	29,820	29,900
1985	33,040	33,100
1987	33,603	33,700
1990	31,205	31,050
1995	36,180	34,800
2000		34,548
2005		34,115
2010		33,668
2015		32,913
2020		32,256

Nevada Forecasts of County Irrigated Acreage



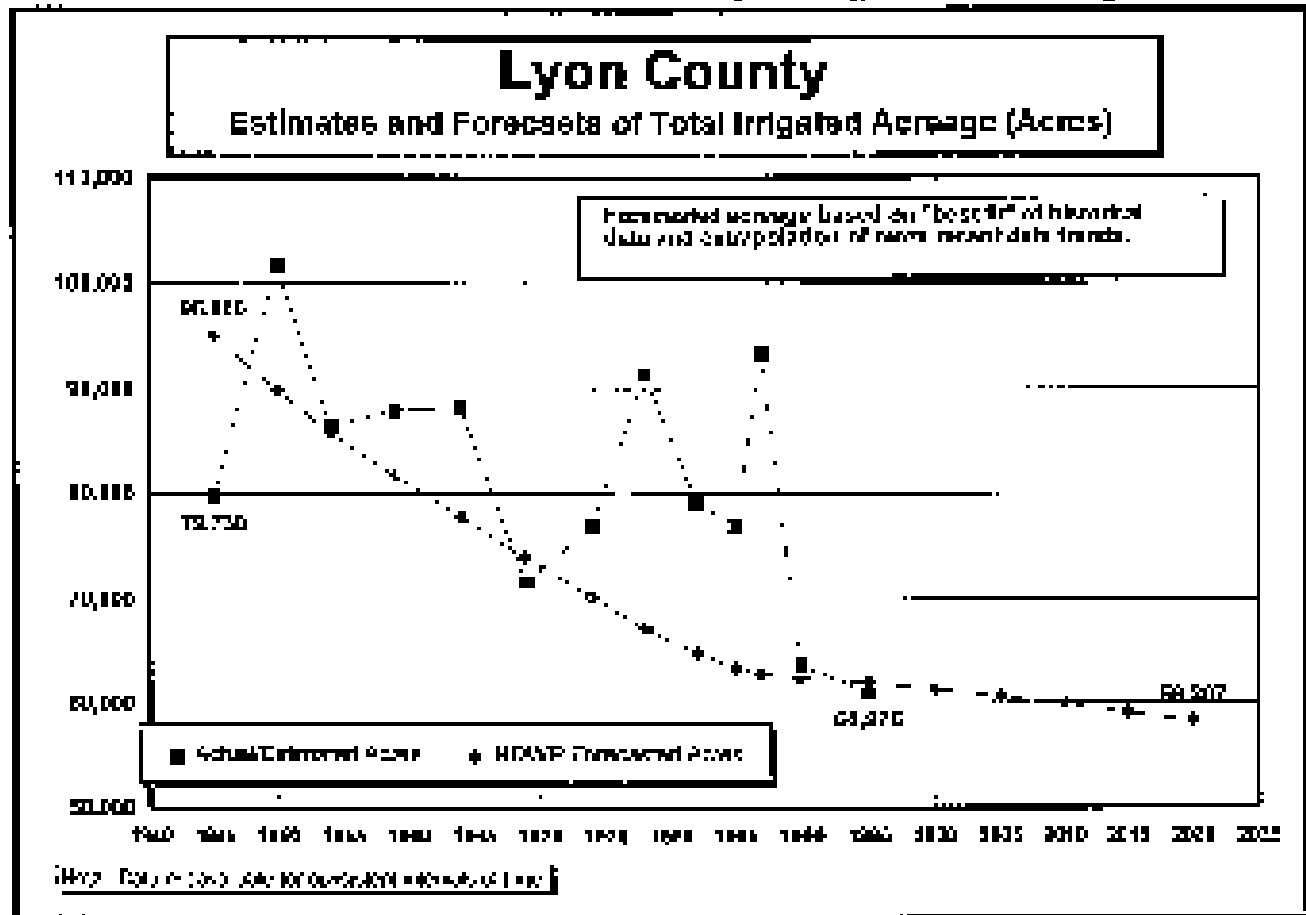
Source: Modified from 1945-1967-1987 U.S. Bureau of Economic Analysis, Agriculture Division, 1945, 1967-1975, 1987-1995; National Survey of 1970, 1985 and Census of 1990. County-level data from the Nevada Water Plan, NDWP.

Lincoln County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	9,184	8,750
1950	12,270	9,625
1954	8,278	10,370
1959	8,809	11,130
1964	10,975	11,974
1969	8,809	12,808
1971	18,879	13,694
1975	17,844	14,527
1982	15,872	14,982
1983	17,070	15,518
1987	14,892	15,441
1990	17,620	15,391
1995	15,620	15,331
2000		15,377
2005		15,312
2010		15,308
2015		15,261
2020		15,024

Nevada Forecasts of County Irrigated Acreage



Source: Historical data (1945-1985, 1989) - U.S. Bureau of the Census, Agriculture, 1989, 1990, 1991, U.S. Geological Survey (1993), 1995, 2000, 2004-2010, Nevada-Bureau of Water Planning (NDWP).

Lyon County

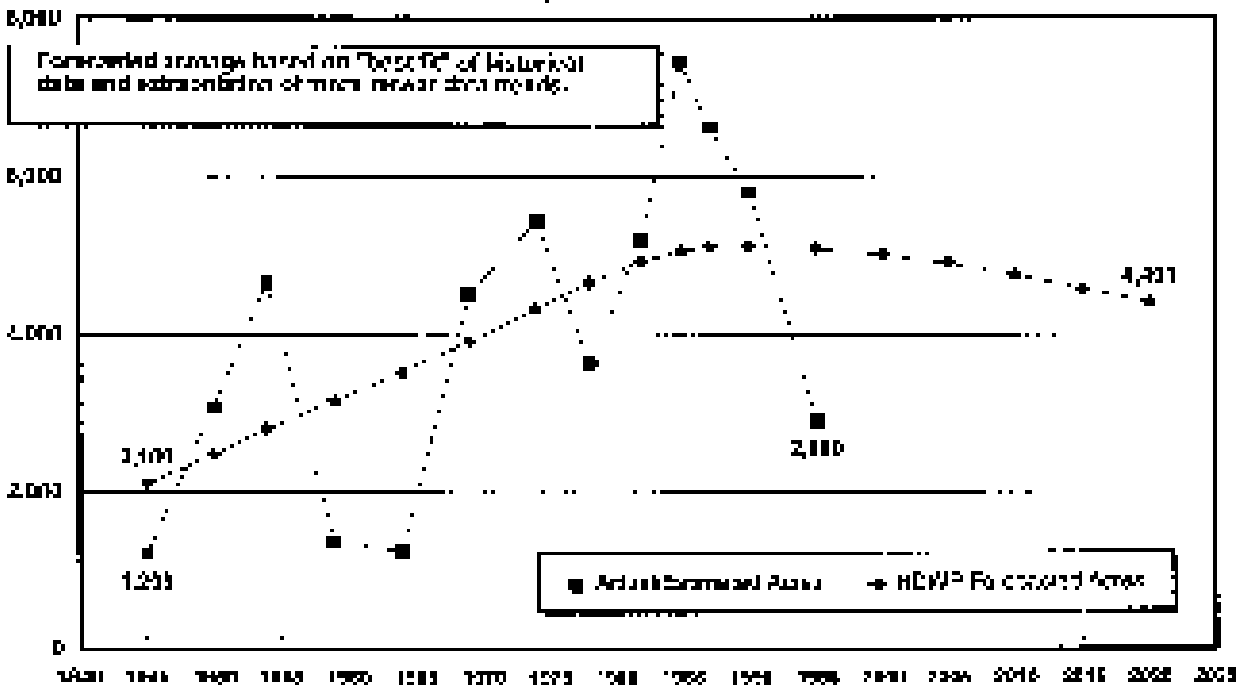
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	95,000	95,000
1946	79,750	80,775
1951	80,385	88,217
1959	87,868	91,714
1964	88,290	77,770
1965	71,552	73,970
1974	74,881	70,128
1978	67,147	67,180
1989	79,081	69,421
1989	70,920	69,405
1987	92,218	62,814
1990	67,600	62,405
1997	60,975	61,305
2001		59,117
2005		58,571
2010		58,084
2015		57,548
2020		57,017

Nevada Forecasts of County Irrigated Acreage

Mineral County

Estimates and Forecasts of Total Irrigated Acreage (Acres)



1945-1990 source is Nevada State Water Plan

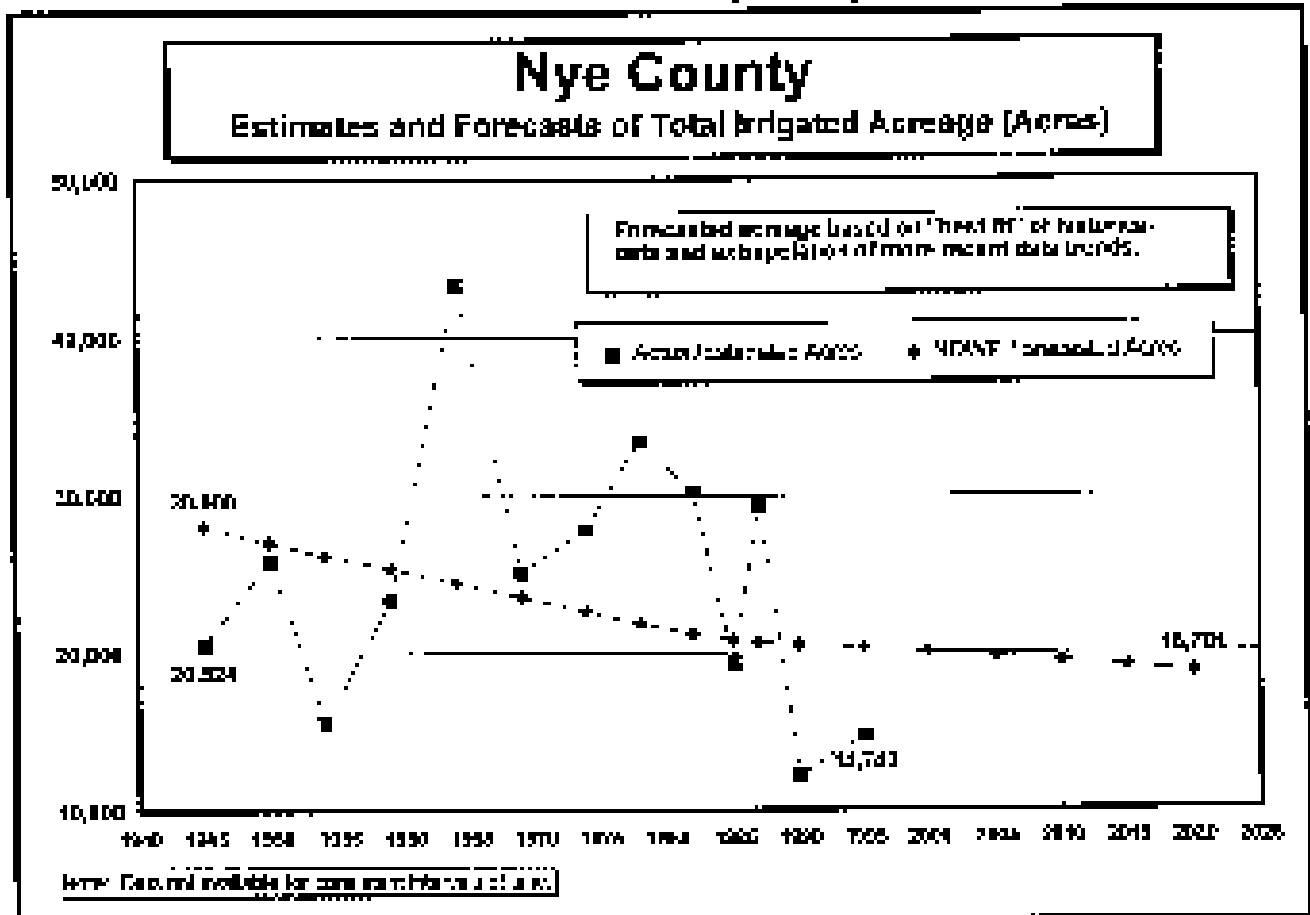
Nevada Department of Water (1994-1997), 2001-2010 U.S. Census of Economic Agriculture Division (1982, 1994-2001),
 Geological Survey (USGS) (1995 estimate and 2000-2025 forecast) Nevada Department of Water Planning (NDWP) 21

Mineral County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	319	2,100
1950	3,077	2,958
1955	4,661	3,796
1960	3,375	3,172
1965	1,250	3,337
1970	4,511	3,920
1975	5,492	4,308
1980	3,600	4,662
1985	5,150	4,960
1990	5,400	5,060
1995	6,020	5,208
2000	5,800	5,313
2005	2,900	5,375
2010		5,401
2015		5,891
2020		6,351
2025		6,811

Nevada Forecasts of County Irrigated Acreage

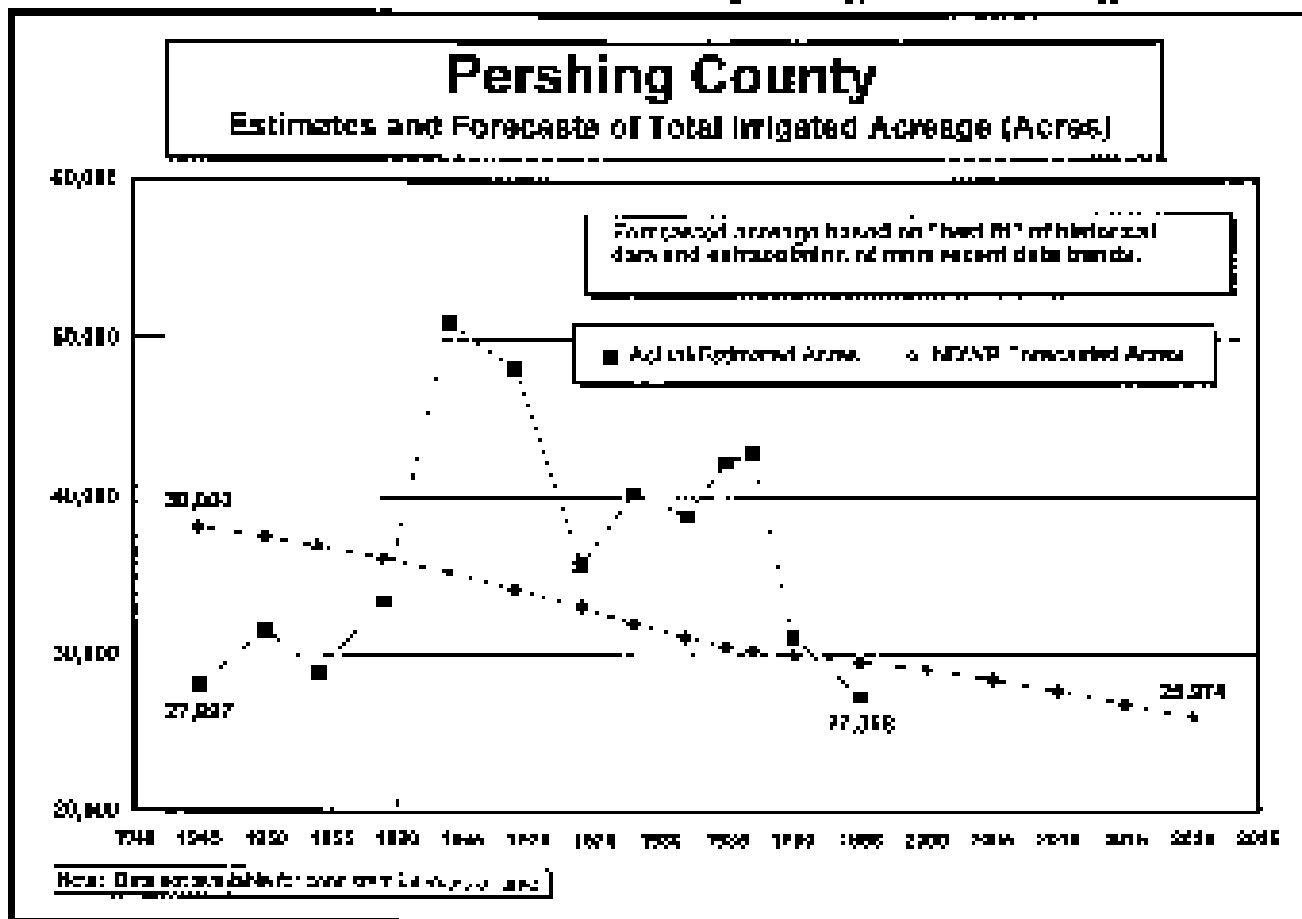


Source: FFA and NDFW (1945-1960, 1970-1995); Bureau of Land Management (1945-1991); U.S. Geological Survey (1995); 1995 estimate and 2000-2025 forecast based on NDFW's trend fitting (NDFW).

Nye County
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	20,524	26,140
1950	23,864	23,007
1955	19,679	25,319
1960	21,249	25,358
1965	43,256	24,470
1970	25,092	23,572
1975	27,860	22,674
1980	13,393	21,819
1985	10,940	21,250
1990	19,150	20,501
1995	29,131	20,622
2000	12,310	19,484
2005	14,742	20,298
2010		20,062
2015		19,773
2020		19,446
2025		19,073

Nevada Forecasts of County Irrigated Acreage

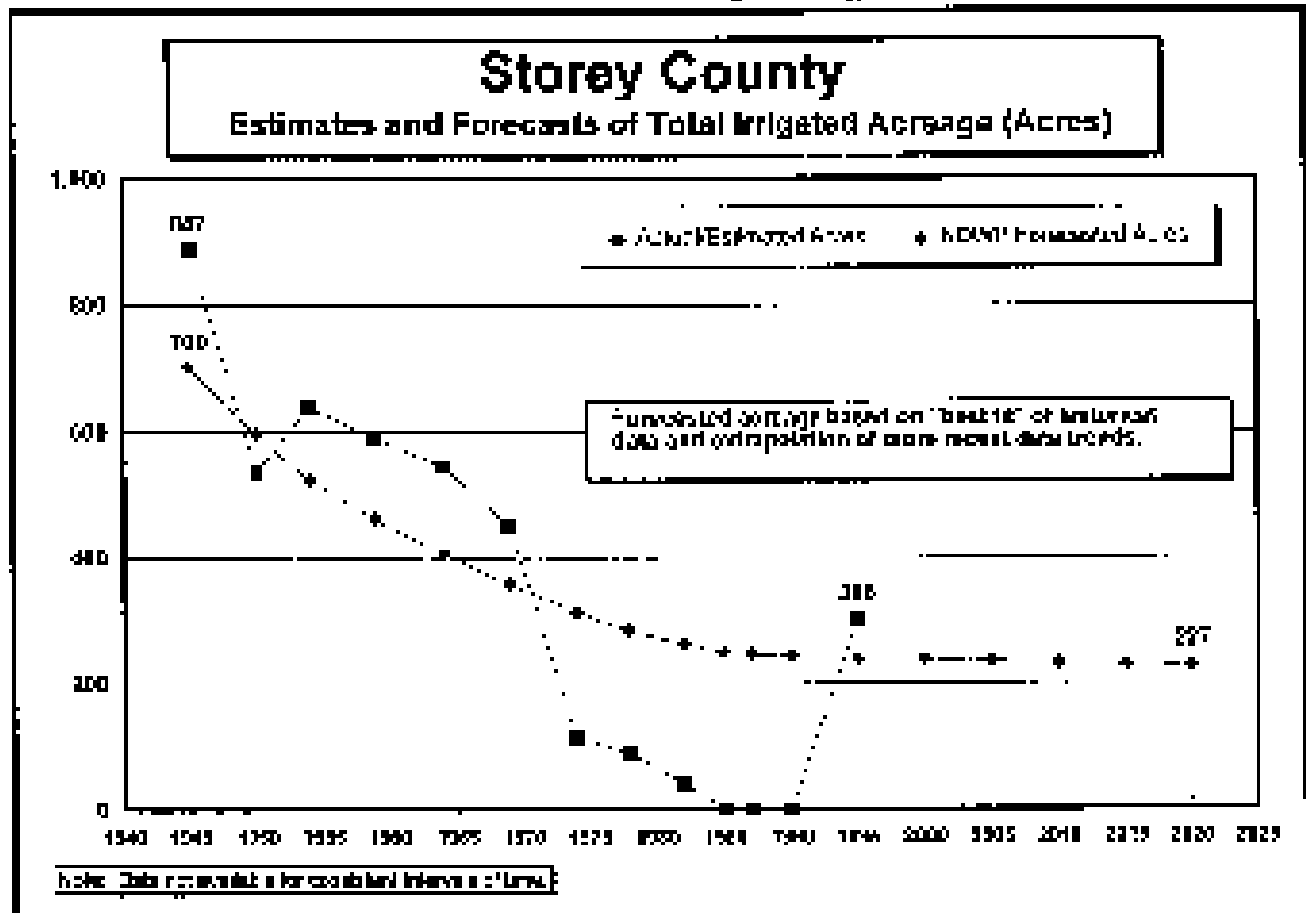


Source: Historical Acreage 1948-1990, USGS; Bureau of Land Management Database 1992, 2004-05; Geological Survey 1995, 1999; MZAP and 2006-2020 Forecasts—Nevada Division of Water Planning (NDWP).

Pershing County
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Years	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1948	27,827	38,003
1950	31,500	37,000
1955	29,000	36,000
1960	33,500	35,000
1966	50,500	34,000
1970	48,000	33,000
1974	35,500	32,000
1978	40,000	31,000
1982	38,000	30,500
1986	45,000	30,000
1990	46,000	29,500
1994	31,000	29,000
1998	27,000	28,500
2002	27,000	28,000
2006	27,000	27,500
2010		27,000
2015		26,500
2020		26,000
2025		25,574

Nevada Forecasts of County Irrigated Acreage

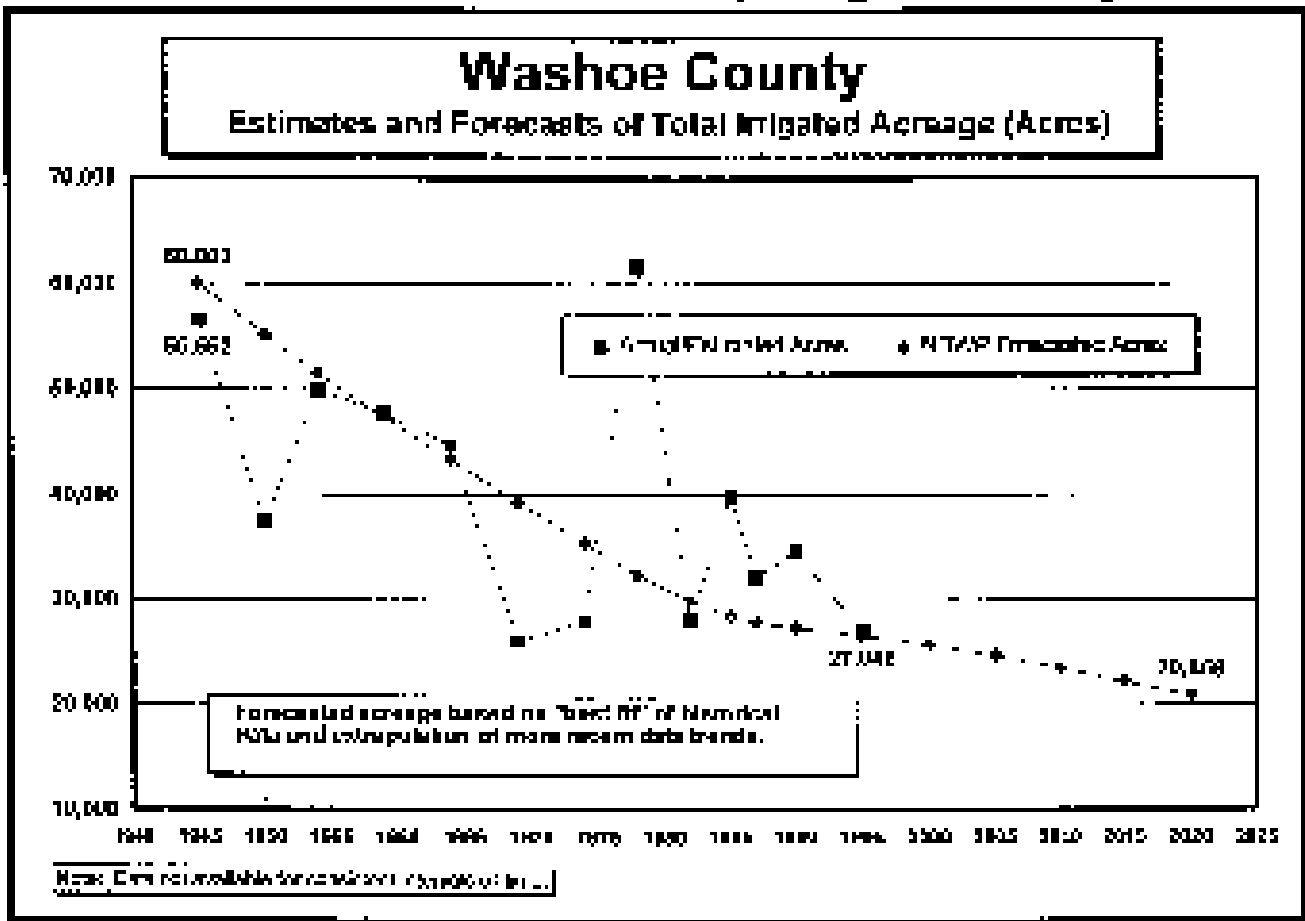


Source: "Irrigated Acreage 1940-1980," 1987-1988, Bureau of Economic Analysis, Department of Agriculture, U.S. (1990); FWS, "County of Storey (1915)"; FWS records and 2004-2005 records—Nevada Division of Water Planning (NDWP).

Storey County
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	700	700
1950	550	550
1955	650	500
1960	590	450
1965	550	400
1970	450	350
1975	120	300
1980	0	280
1985	0	260
1990	0	250
1995	318	240
2000		235
2005		230
2010		225
2015		220
2020		215

Nevada Forecasts of County Irrigated Acreage

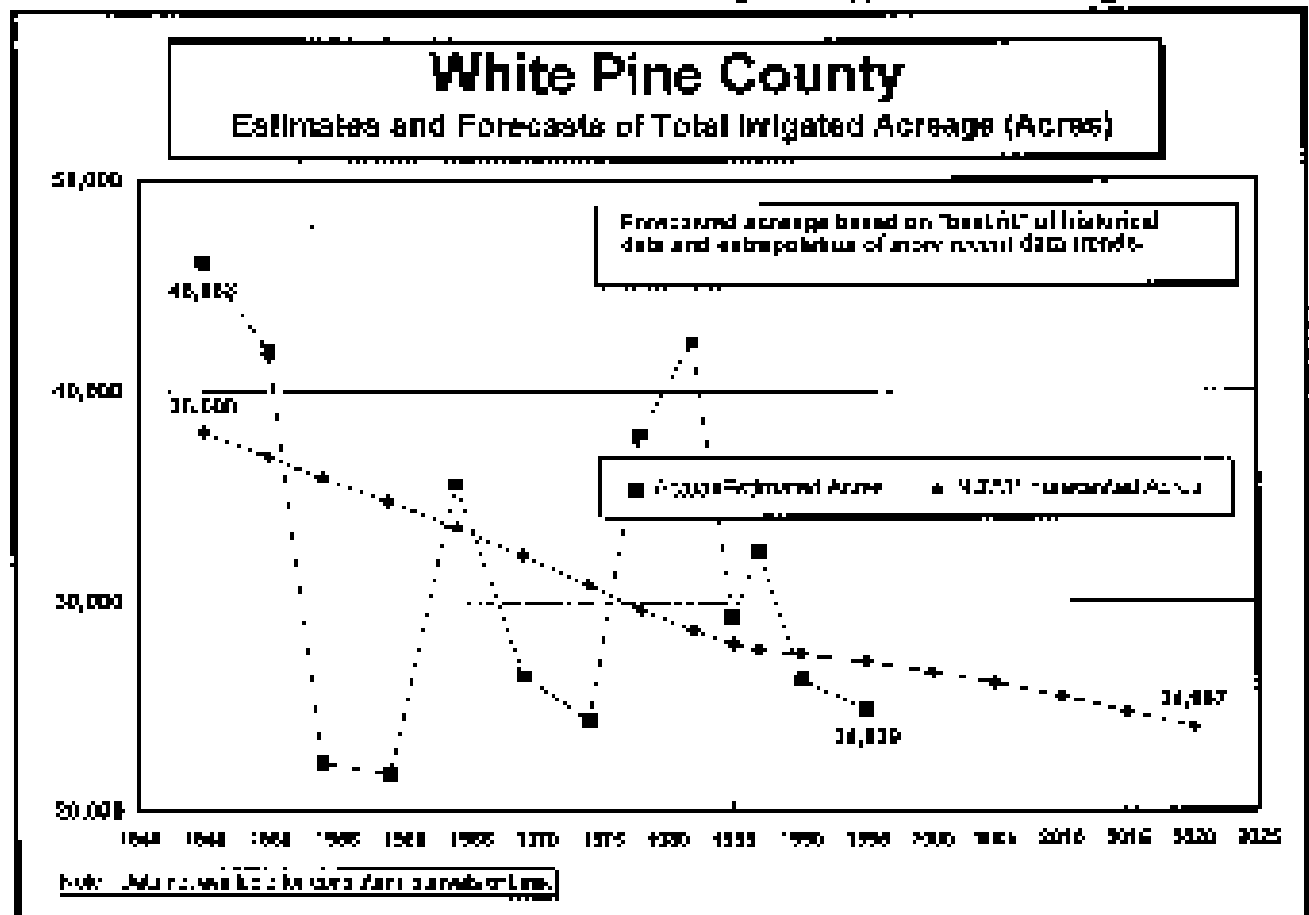


Sources: Historical Data (1945 - 1995) from U.S. Bureau of the Census, Agricultural Division (1945 - 1995); U.S. Geological Survey (1996 - 1999); Nevada and Utah-2000 Reclamation-Records; Division of Water Planning (NITAP).

Washoe County
Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Estimated Irrigated Acreage	County Forecasted Irrigated Acreage
1945	60,000	60,000
1950	56,662	56,662
1955	50,000	50,000
1960	45,000	45,000
1965	40,000	40,000
1970	35,000	35,000
1975	30,000	30,000
1980	28,000	28,000
1985	27,000	27,000
1990	26,000	26,000
1995	25,000	25,000
2000		24,000
2005		23,000
2010		22,483
2015		22,176
2020		21,869

Nevada Forecasts of County Irrigated Acreage



Source: US Census Bureau (1945-1980, 1987); U.S. Department of Census, Agriculture Division, 1989, 1994-95; Geological Survey (USGS); 1995 estimate and 2000-2025 forecast—Nevada Division of Water Planning (NDWP).

White Pine County

Estimates and Forecasts of Total Irrigated Acreage (Acres)

Year	County Reported Irrigated Acreage	County Forecasted Irrigated Acreage
1945	48,882	48,882
1950	41,921	46,360
1952	22,281	35,857
1955	21,789	34,759
1964	33,595	33,516
1969	26,484	32,202
9-5	24,866	30,811
1978	37,965	29,519
1982	42,358	28,557
1985	29,520	28,214
1987	32,478	27,717
1990	25,430	27,475
1995	24,839	27,134
2005		26,671
2010		26,117
2015		25,471
2020		24,739
2025		24,867

Nevada State Water Plan
**Appendix 5 – Nevada and County Water
Withdrawal Forecast Summaries**

TABLE:

Nevada and County Summary — Total Water Use

Municipal and Industrial (M&I) Water Use

Domestic (Residential) Water Use

Public Supply Domestic Water Use

Self Supplied Domestic Water Use

Commercial and Industrial Water Use

Public Use and Losses

Thermoelectric Water Use

Total Mining Water Use

Mining Consumptive (Processing) Water Use

Mining Non-Consumptive (Mining Dewatering) Withdrawals

Total Agricultural Water Use

Irrigation Water Withdrawals

Livestock Water Use

Nevada Estimated and Forecasted Water Use by Sector

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Feet/Year)

State/County	Revised					
	1995	2000	2005	2010	2015	2020
Total Nevada						
Total Water Withdrawals (Use)(1)	4,411,385	4,350,474	4,339,289	4,392,604	4,404,012	4,391,150
Total Municipal & Industrial Use(2)	574,867	651,875	725,701	691,593	972,639	1,094,228
Total Domestic (Residential) Use(3)	3,631,710	455,404	538,093	607,467	663,413	661,139
Domestic--Public Supplied(4)	242,603	434,052	514,777	581,755	633,200	573,563
Domestic--Self Supplied	3,109	2,491	34,815	25,711	27,216	47,775
Commercial and Industrial Use	177,407	330,355	361,820	295,907	323,811	344,919
Public Use and Losses(5)	48,472	6,105	2,213	81,707	88,940	94,582
Thermoelectric Use(6)	55,449	6,085	63,197	69,521	70,422	91,220
Total Mining Use(7)	274,134	278,495	282,708	284,955	283,764	277,556
Mine Processing (consumptive)	89,164	97,647	92,402	93,289	93,460	92,757
Mine Dewatering (nonconsumptive)	185,270	180,849	190,206	191,575	190,206	184,819
Total Agriculture Withdrawals(8)	3,113,914	3,367,279	3,115,877	3,052,078	2,976,780	2,901,522
Irrigation Water Withdrawals	3,113,535	3,160,754	3,109,348	3,045,636	2,976,521	2,895,405
Livestock Water Use	6,179	6,624	6,324	6,102	6,299	6,119
Carson City						
Total Water Withdrawals (Use)(1)	30,833	19,121	20,273	21,195	21,810	21,084
Total Municipal & Industrial Use(2)	9,347	7,853	12,146	13,226	14,651	14,562
Total Domestic (Residential) Use(3)	7,096	8,302	9,212	10,024	10,641	11,020
Domestic--Public Supplied(4)	6,460	7,570	8,470	9,161	9,735	10,794
Domestic--Self Supplied	513	738	832	863	905	926
Commercial and Industrial Use	2,274	2,621	2,891	3,134	3,316	3,423
Public Use and Losses(5)	840	979	1,092	1,389	1,263	1,710
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	16,791	7,379	7,078	6,847	6,500	6,533
Irrigation Water Withdrawals	16,710	7,271	7,001	6,840	6,583	6,536
Livestock Water Use	11	8	7	7	7	7
Churchill County						
Total Water Withdrawals (Use)(1)	286,299	280,894	280,578	279,803	278,809	277,452
Total Municipal & Industrial Use(2)	3,570	3,329	4,977	5,559	6,105	6,569
Total Domestic (Residential) Use(3)	3,457	4,139	4,730	5,269	5,748	6,142
Domestic--Public Supplied(4)	2,151	2,978	3,013	3,396	3,748	4,051
Domestic--Self Supplied	1,306	1,511	1,715	1,874	2,001	2,091
Commercial and Industrial Use	1,420	1,716	1,975	2,226	2,457	2,656
Public Use and Losses(5)	1,053	1,276	1,461	1,608	1,799	1,936
Thermoelectric Use(6)	23,963	23,557	24,008	24,397	24,704	24,989
Total Mining Use(7)	179	182	185	187	186	186
Mine Processing (consumptive)	179	181	185	187	186	186
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	257,225	259,023	248,219	246,180	245,912	241,644
Irrigation Water Withdrawals	256,553	249,270	247,571	245,557	245,210	241,012
Livestock Water Use	672	653	649	643	637	631

Nevada Estimated and Forecasted Water Use by Sector

Revised

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Foot-Year)

12/3/98

Clark County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	468,355	593,711	705,116	796,686	864,092	915,976
Total Municipal & Industrial Use (2)	379,921	497,297	603,373	688,843	752,578	801,698
Total Domestic (Residential) Use(3)	146,709	177,710	200,036	246,410	287,085	318,215
Domestic—Public Supplied(4)	142,109	173,052	194,217	239,500	283,158	313,648
Domestic—Self-Supplied	4,600	4,658	5,819	6,910	3,928	4,567
Commercial and Industrial Use	121,066	166,661	194,748	237,822	245,561	259,539
Public Use and Losses(5)	37,281	40,258	51,185	58,532	63,948	68,122
Thermoelectric Use(6)	15,377	33,973	26,499	26,914	27,258	27,579
Total Mining Use(7)	2,356	2,454	2,475	2,495	2,301	2,432
Mine Processing (consumptive)	2,356	2,454	2,475	2,496	2,301	2,432
Mine Dewatering (non-consumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	40,672	39,658	39,585	39,512	39,499	39,566
Irrigation Water Withdrawals	40,292	39,384	39,212	39,209	39,167	39,093
Livestock Water Use	380	274	373	303	332	473
Douglas County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	203,955	211,625	201,685	200,139	197,942	195,483
Total Municipal & Industrial Use(2)	11,078	13,240	14,968	15,702	15,955	19,207
Total Domestic (Residential) Use(3)	10,513	12,572	14,120	15,615	16,973	18,131
Domestic—Public Supplied(4)	3,766	11,434	12,877	14,236	15,514	16,794
Domestic—Self-Supplied	6,747	1,138	1,243	1,379	1,459	1,337
Commercial and Industrial Use	1,293	3,506	4,041	4,453	4,822	5,133
Public Use and Losses(5)	347	4,711	467	577	560	602
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (non-consumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	189,902	186,052	182,054	179,557	175,385	171,614
Irrigation Water Withdrawals	189,541	185,799	182,805	179,317	175,345	171,321
Livestock Water Use	361	253	249	240	338	293
Elko County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	936,593	941,310	932,063	919,146	912,567	935,191
Total Municipal & Industrial Use(2)	4,920	17,622	21,088	21,972	23,447	24,476
Total Domestic (Residential) Use(3)	11,595	13,917	15,297	17,037	18,764	18,893
Domestic—Public Supplied(4)	10,868	12,083	12,569	14,050	17,334	17,843
Domestic—Self-Supplied	727	834	727	987	1,430	1,050
Commercial and Industrial Use	3,942	9,514	10,782	11,269	12,700	13,267
Public Use and Losses(5)	1,305	1,628	1,824	1,955	2,129	2,217
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	5,734	5,461	5,549	5,602	5,512	5,599
Mine Processing (consumptive)	5,354	5,401	5,513	5,502	5,673	5,509
Mine Dewatering (non-consumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	915,317	910,790	895,331	882,557	869,951	849,246
Irrigation Water Withdrawals	908,645	909,087	896,641	881,904	869,515	847,667
Livestock Water Use	6,672	1,703	8,690	1,653	1,616	1,581

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Foot/Year)

12/3/98

Rainier/Elko County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	62,809	60,364	60,379	59,407	58,131	56,666
Total Municipal & Industrial Use(2)	302	275	290	285	257	259
Total Domestic (Residential) Use(3)	297	290	275	270	281	282
Domestic—Public Supplied(4)	211	199	197	200	209	204
Domestic—Self-Supplied	84	76	77	78	76	79
Commercial and Industrial Use	45	48	50	51	5	52
Public Use and Losses(5)	45	41	42	43	43	43
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	12,613	12,857	12,071	13,197	13,222	12,120
Mine Processing (consumptive)	12,613	12,857	12,071	13,197	13,222	12,120
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	49,810	47,610	45,942	41,890	44,554	42,164
Irrigation Water Withdrawals	49,687	47,523	46,826	45,796	44,424	42,062
Livestock Water Use	123	118	116	114	110	107
Elko/Elba County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	244,422	266,345	266,116	264,464	249,570	254,251
Total Municipal & Industrial Use(2)	426	479	527	566	597	604
Total Domestic (Residential) Use(3)	425	478	525	553	589	601
Domestic—Public Supplied(4)	325	365	402	432	452	462
Domestic—Self-Supplied	100	112	123	131	137	139
Commercial and Industrial Use	67	109	186	230	176	215
Public Use and Losses(5)	34	38	42	45	47	48
Thermoelectric Use(6)	4,577	4,753	4,848	4,929	4,989	5,016
Total Mining Use(7)	114,243	115,053	117,524	118,418	117,749	114,753
Mine Processing (consumptive)	19,222	19,666	19,920	20,111	20,356	19,995
Mine Dewatering (nonconsumptive)	95,021	96,116	97,604	98,305	97,393	94,758
Total Agriculture Withdrawals(8)	128,576	145,915	142,091	140,281	138,921	133,961
Irrigation Water Withdrawals	124,859	144,535	142,812	140,105	138,749	133,394
Livestock Water Use	157	182	179	176	172	168
Humboldt County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	686,584	699,029	686,501	669,042	646,266	621,976
Total Municipal & Industrial Use(2)	1,201	1,830	2,440	3,017	3,284	3,512
Total Domestic (Residential) Use(3)	4,454	5,174	5,709	6,259	6,641	6,878
Domestic—Public Supplied(4)	3,047	3,543	3,949	4,297	4,554	4,733
Domestic—Self-Supplied	1,407	1,630	1,760	1,962	2,087	2,145
Commercial and Industrial Use	1,111	1,755	2,055	2,345	2,605	2,822
Public Use and Losses(5)	381	441	493	537	570	599
Thermoelectric Use(6)	3,226	3,307	3,073	3,127	3,471	3,511
Total Mining Use(7)	66,640	70,865	78,861	75,466	70,038	77,095
Mine Processing (consumptive)	15,077	15,379	15,625	15,773	15,905	15,693
Mine Dewatering (nonconsumptive)	51,563	55,486	63,236	60,692	54,133	61,402
Total Agriculture Withdrawals(8)	610,472	610,488	595,969	577,099	554,644	531,080
Irrigation Water Withdrawals	599,845	609,851	595,207	576,406	553,466	530,525
Livestock Water Use	627	638	673	609	579	555

Nevada Estimated and Forecasted Water Use by Sector

Estimated (1995) and Forecasted (2000-2020) Water Use (Acre-Foot/Year)

Transfer County	Forecast:					
	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	198,083	191,463	191,049	188,907	185,825	182,025
Total Municipal & Industrial Use(2)	1,429	1,598	1,661	1,719	1,742	1,758
Total Domestic (Residential) Use(3)	1,529	1,518	1,577	1,623	1,581	1,662
Domestic—Public Supplied(4)	1,126	1,216	1,256	1,334	1,306	1,372
Domestic—Self Supplied	404	302	321	289	275	290
Commercial and Industrial Use	140	150	166	171	182	187
Public Use and Losses(5)	134	189	196	202	206	208
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	35,593	36,170	36,977	36,917	36,729	35,833
Mine Processing (consumptive)	7,199	7,701	7,824	7,899	7,914	7,874
Mine Dewatering (nonconsumptive)	28,444	28,469	29,153	29,018	28,815	27,959
Total Agriculture Withdrawals(8)	161,018	151,279	152,476	149,992	147,061	141,199
Irrigation Water Withdrawals	161,062	151,050	152,119	149,680	146,757	140,833
Livestock Water Use	456	229	357	312	304	366
Lincoln County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	67,316	66,884	66,643	66,210	65,691	65,063
Total Municipal & Industrial Use(2)	1,573	1,377	1,044	1,529	1,645	1,551
Total Domestic (Residential) Use(3)	1,355	1,374	1,400	1,430	1,435	1,419
Domestic—Public Supplied(4)	1,082	1,068	1,121	1,139	1,150	1,156
Domestic—Self Supplied	273	306	280	292	285	263
Commercial and Industrial Use	564	340	302	352	331	349
Public Use and Losses(5)	138	140	143	145	146	147
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	0	0	0	0	0	0
Mine Processing (consumptive)	0	0	0	0	0	0
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	63,666	64,021	64,747	64,313	63,709	63,128
Irrigation Water Withdrawals	63,537	64,009	64,526	64,192	63,607	63,010
Livestock Water Use	129	12	221	120	102	118
Lyon County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	325,076	320,054	329,640	325,610	327,027	325,402
Total Municipal & Industrial Use(2)	5,045	9,296	8,927	9,727	10,827	11,960
Total Domestic (Residential) Use(3)	4,771	5,293	5,187	7,045	6,937	8,506
Domestic—Public Supplied(4)	3,957	4,896	5,721	5,590	7,772	7,962
Domestic—Self Supplied	814	398	466	1,455	564	544
Commercial and Industrial Use	6,594	10,738	12,604	14,412	15,092	17,510
Public Use and Losses(5)	672	857	997	1,109	1,366	1,373
Thermoelectric Use(6)	1,400	1,435	1,461	1,487	1,566	1,524
Total Mining Use(7)	2,569	2,606	2,658	2,684	2,689	2,658
Mine Processing (consumptive)	2,565	2,616	2,638	2,684	2,689	2,658
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	307,574	309,100	315,698	301,875	297,647	291,419
Irrigation Water Withdrawals	306,936	308,649	305,262	301,455	297,219	292,991
Livestock Water Use	638	451	436	420	428	428

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2000-2020) Water Use (Acres-Foot/Year)

12/3/96

Mineral County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	19,703	21,196	20,667	19,920	28,992	28,022
Total Municipal & Industrial Use(2)	1,215	1,301	1,339	1,248	1,261	1,356
Total Domestic (Residential) Use(3)	1,153	1,197	1,219	1,236	1,265	1,290
Domestic-Public Supplied(4)	910	956	950	1,000	1,010	1,014
Domestic-Self Supplied	243	240	269	236	255	276
Commercial and Industrial Use	260	265	289	265	259	251
Public Use and Losses(5)	45	47	47	48	49	49
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	2,626	2,579	2,612	2,537	2,642	2,621
Mine Processing (consumptive)	2,520	2,470	2,612	2,637	2,642	2,621
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	15,716	27,117	26,524	25,746	27,797	25,948
Irrigation Water Withdrawals	15,685	27,059	26,467	25,691	27,744	25,797
Livestock Water Use	31	58	57	55	53	51
Nye County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	76,615	101,291	102,873	102,507	102,457	101,958
Total Municipal & Industrial Use(2)	6,127	8,200	9,634	10,975	12,128	12,956
Total Domestic (Residential) Use(3)	5,385	7,740	9,064	10,349	11,517	12,235
Domestic-Public Supplied(4)	4,707	7,461	8,416	9,511	10,684	11,669
Domestic-Self Supplied	1,718	2,279	2,667	3,027	3,333	3,569
Commercial and Industrial Use	84	890	1,064	1,226	1,512	1,682
Public Use and Losses(5)	1,308	1,843	2,166	2,466	2,727	2,922
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	7,685	9,815	7,969	8,044	8,055	7,975
Mine Processing (consumptive)	7,027	7,198	7,315	7,184	7,298	7,347
Mine Dewatering (nonconsumptive)	658	616	653	860	757	628
Total Agriculture Withdrawals(8)	60,973	82,966	81,792	80,439	79,888	79,517
Irrigation Water Withdrawals	59,215	81,562	80,801	79,454	78,931	78,409
Livestock Water Use	758	1,404	992	985	957	938
Perkins County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	121,216	139,257	126,871	123,860	120,366	116,780
Total Municipal & Industrial Use(2)	1,754	2,100	2,631	2,811	2,971	3,064
Total Domestic (Residential) Use(3)	1,342	1,345	2,020	2,183	2,292	2,251
Domestic-Public Supplied(4)	1,199	1,600	2,318	2,057	2,097	2,112
Domestic-Self Supplied	143	75	212	236	215	139
Commercial and Industrial Use	414	531	661	664	716	734
Public Use and Losses(5)	154	185	264	219	230	216
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	2,106	2,148	2,182	2,201	2,208	2,191
Mine Processing (consumptive)	2,106	2,148	2,182	2,201	2,208	2,191
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	117,220	121,512	121,814	118,591	114,919	111,245
Irrigation Water Withdrawals	116,962	121,275	121,546	118,230	114,667	111,004
Livestock Water Use	258	237	268	261	252	241

Nevada Estimated and Forecasted Water Use by Sector

Revised

Estimated (1995) and Forecasted (2000-2020) Water Use (Acres-Foot/Year)

12/3/98

Storage County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	3,533	3,470	3,562	3,638	3,698	3,742
Total Municipal & Industrial Use(2)	325	367	474	447	489	510
Total Domestic (Residential) Use(3)	370	401	443	440	410	532
Domestic—Public Supplied(4)	294	364	393	373	358	357
Domestic—Self-Supplied	115	136	150	160	173	179
Commercial and Industrial Use	67	98	110	137	131	149
Public Use and Losses(5)	34	60	44	45	31	50
Thermoelectric Use(6)	1,826	1,872	1,979	1,949	1,954	1,987
Total Mining Use(7)	198	265	297	270	270	268
Mine Processing (consumptive)	258	265	297	270	270	268
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	1,008	797	789	780	771	753
Irrigation Water Withdrawals	1,008	797	789	780	771	753
Livestock Water Use	0	0	0	0	0	0
Washoe County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	218,983	215,228	230,908	235,395	238,823	240,951
Total Municipal & Industrial Use(2)	79,355	89,416	98,321	107,689	115,735	122,808
Total Domestic (Residential) Use(3)	57,552	64,696	71,426	77,683	83,419	88,455
Domestic—Public Supplied(4)	57,322	69,279	69,287	71,005	76,109	81,114
Domestic—Self-Supplied	3,057	5,654	6,121	6,508	7,010	7,341
Commercial and Industrial Use	23,697	27,056	29,757	32,327	34,681	36,739
Public Use and Losses(5)	9,308	19,512	11,975	12,629	13,271	14,160
Thermoelectric Use(6)	6,060	5,212	6,326	6,419	5,519	6,936
Total Mining Use(7)	717	711	743	750	752	746
Mine Processing (consumptive)	717	711	743	750	752	746
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	121,824	115,824	121,119	126,759	129,881	131,935
Irrigation Water Withdrawals	121,299	115,591	120,853	126,516	129,644	131,772
Livestock Water Use	291	277	266	251	239	223
White Pine County	1995	2000	2005	2010	2015	2020
Total Water Withdrawals (Use)(1)	99,305	106,689	105,196	103,265	100,803	98,545
Total Municipal & Industrial Use(2)	3,351	4,005	4,198	4,345	4,139	4,177
Total Domestic (Residential) Use(3)	3,283	3,699	3,874	4,006	4,089	4,119
Domestic—Public Supplied(4)	3,047	3,437	3,607	3,730	3,812	3,845
Domestic—Self-Supplied	206	262	270	275	277	274
Commercial and Industrial Use	246	274	235	244	248	249
Athletic Use and Losses(5)	258	291	305	315	322	325
Thermoelectric Use(6)	0	0	0	0	0	0
Total Mining Use(7)	11,592	11,791	11,890	12,095	12,118	12,025
Mine Processing (consumptive)	11,550	11,701	11,891	12,095	12,118	12,025
Mine Dewatering (nonconsumptive)	0	0	0	0	0	0
Total Agriculture Withdrawals(8)	84,456	90,684	89,800	86,675	84,115	81,526
Irrigation Water Withdrawals	84,187	90,395	89,500	86,329	83,848	81,206
Livestock Water Use	269	289	296	296	268	260

Notes: *Water Use* and *Water Withdrawals* are equivalent terms. Both are net drawdowns (consumptive use) do not account for return flows.

(1) Total Water Withdrawals are equal to Total Thermelectric Use plus Total Municipal and Industrial Use plus Total Domestic Use plus Total Agriculture Withdrawals.

(2) Total Municipal and Industrial (M&I) Use equals public supplied water for domestic, commercial, industrial, and institutional uses.

(3) Total Domestic Use equals the total residential use, both indoor and outdoor (see residential category).

(4) Domestic Public Supplied water use = residential use of water supplied by public supply water systems.

(5) Athletic Use and Losses include water used for swimming pools, hot tubs, and other recreational uses.

(6) Thermoelectric Use is water used for power generation at the Nevada Test Reactor.

(7) Mining Use is water used for mining operations, including processing and dewatering.

(8) Agriculture Use is water used for irrigation and livestock watering.

Nevada Estimated and Forecasted Water Use by Sector

Revised:

Estimated (1995) and Forecasted (2010-2020) Water Use (Acres-Foot/Year)

12/2008

- (1) Public Use and Losses is considered as a portion of total "WU" water use based on historical trends.
- (2) Thermoelectric Use includes water used for geothermal power plants and cooling water for conventional power.
- (3) Total Mining Use includes both on-surface and off-surface water use (including desalination).
- (4) Total Agriculture + Wildlife Use includes both irrigation and livestock water use.

Sources: Nevada State Department of Water, Department of Reclamation, Planning and Administration (DR/P&A); U.S. Geological Survey (USGS) and Nevada Division of Water Planning (NDWP). Irrigated acreage and 1995 irrigation water withdrawals based on USGS estimates modified by NDWP; Forecasts through 2020 based on NDWP projections of population, employment, business construction and investment, irrigated acreage. Livestock water use based on a standard percent of irrigation water use.

Nevada State Water Plan
Appendix 6 – Nevada and County
Socioeconomic Overviews
(Incorporated by Reference)

Incorporated into the Nevada State Water Plan by reference only are separate socioeconomic overviews for the total state and each county offering detailed written, table, and graphical analysis in support of the State Water Plan.

Socioeconomic Overviews:

State of Nevada
Carson City
Churchill County
Clark County
Douglas County
Elko County
Esmeralda County
Eureka County
Humboldt County
Lander County
Lincoln County
Lyon County
Mineral County
Nye County
Pershing County
Storey County
Washoe County
White Pine County