

**STATE OF NEVADA**  
**DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES**  
**DIVISION OF WATER RESOURCES**

**ADAM SULLIVAN, P.E.**  
**STATE ENGINEER**



**MESQUITE (SANDY) VALLEY**  
**(HYDROGRAPHIC BASIN 10-163)**

**GROUNDWATER PUMPAGE INVENTORY**

**WATER YEAR 2021**

Field Investigated by: Tracy Geter  
Report Prepared by: Christi Cooper

Published 10/11/2022

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## ABSTRACT

This inventory represents the status and usage of all permitted, certificated, claims of vested right groundwater rights, and exempt domestic wells located within the Nevada portion of Mesquite (Sandy) Valley, Hydrographic Basin 10-163, for water year 2021 (October 1, 2020 through September 30, 2021). Also included are tables, graphs, and data associated with this use.

The data presented are valid for the period of this report and may vary from previously published figures as water rights within the basin are subject to administrative action, such as certification, cancellation, forfeiture, or withdrawal on a continual basis.

For water year 2021, the committed water resource totaled 2,294 acre-feet, with estimated pumpage of approximately **626 acre-feet**. This includes an estimated 461 acre-feet pumped from exempt domestic wells.

Pumping by exempt domestic wells was the largest manner of use within the basin, with 2021 pumpage estimated to be 461 acre-feet and commitments totaling 1,844 acre-feet. In 2021, the second largest manner of use was quasi-municipal, with pumpage totaling 122 acre-feet and commitments totaling 293 acre-feet.

## HYDROGRAPHIC BASIN SUMMARY

HYDROGRAPHIC BASIN NUMBER	163, REGION 10
HYDROGRAPHIC BASIN NAME	MESQUITE V. (SANDY V.)
COUNTIES	CLARK
MAJOR COMMUNITIES	SANDY VALLEY
DESIGNATED	YES
DENIALS BASED UPON WATER AVAILABILITY	IRRIGATION
GROUNDWATER LEVEL MEASUREMENTS	NDWR
PUMPAGE INVENTORY, ACRE-FEET IN 2021	626 <sup>1</sup>

STATE ENGINEER'S ORDERS

[NO. 701 – DESIGNATION](#)

DATE: JANUARY 5, 1978

[NO. 1310 – CURTAILING NEW APPROPRIATIONS](#)

DATE: JUNE 26, 2020

COMMITTED GROUNDWATER RESOURCE <sup>2,3</sup> : 2,294 ACRE-FEET		DATE: OCTOBER 2021
COMMERCIAL ..... 63	DOMESTIC ..... 1,844	IRRIGATION ..... 44
MINING & MILLING ..... 50	QUASI-MUNICIPAL ..... 293	

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<sup>1</sup> Includes pumpage by exempt domestic wells, as defined by NRS 534.013.

<sup>2</sup> Committed groundwater resource data are accurate for October 2021. Manner of use category totals vary over time, as rights are not necessarily static. Rights may be subject to change applications, certification, withdrawals, forfeiture and cancellations; each of these circumstances could affect the duty, diversion rate and acreage associated with a given right. The value associated with each manner of use category does not include those portions that have been relinquished in support of domestic wells. A query of the NDWR Well Log Database indicates that 922 domestic wells existed in the basin during water year 2021. This query is assumed to represent both appropriations and exempt domestic wells. The committed domestic water resource is considered to be 2 acre-feet per domestic well, or 1,844 acre-feet annually.

<sup>3</sup> Due to rounding, numbers presented in tables within this report may not add up precisely to the totals provided.

## **PURPOSE AND SCOPE**

The purpose of this report is to inventory all of the groundwater resources allocated and described by the Office of the State Engineer, Nevada Division of Water Resources (NDWR), and to estimate the amount of groundwater pumped within Mesquite (Sandy) Valley Hydrographic Basin (10-163; hereafter referred to as Mesquite Valley), during water year 2021. This report estimates the amount of groundwater pumped under the permits and certificates issued by the State Engineer, claims of vested right, as well as the amount pumped by exempt domestic wells within the basin.

## **DESCRIPTION OF THE STUDY AREA**

Mesquite Valley is a basin located in southern Nevada that straddles the Nevada and California state line. The valley is approximately 40 miles southwest of Las Vegas and 15 miles west of Jean, and is within the Central Hydrographic Region. The town of Sandy Valley is the principal community. The Nevada portion of the basin (approximately 240 square miles) lies within Clark County and the California portion of the basin (approximately 220 square miles) lies within Inyo and San Bernardino Counties (Figure 1).

Mesquite Valley is bounded on the east and northeast by the Spring Mountain Range, the primary watershed for the basin. The Clark Mountain Range forms the south boundary, the Mesquite Mountains border the basin to the southwest, and the Kingston Range borders the basin to the west. The northern and northwest boundaries are formed by a low alluvial rise and intermittent hills separating Mesquite Valley from Pahrump Valley. The adjacent Nevada hydrographic basins are Pahrump Valley (10-162) to the northwest, Las Vegas Valley (13-212) to the northeast, Ivanpah Valley–Northern Part (10-164A) to the east, and Ivanpah Valley–Southern Part (10-164B) to the southeast. The exterior boundary of the Mesquite Valley Hydrographic Basin is as described by Designation Order 701, issued by the Nevada State Engineer on January 5, 1978.

## **GROUNDWATER LEVELS**

Depths to groundwater in Mesquite Valley are measured by NDWR on a semi-annual basis. Data for active monitoring well sites (Figure 2) can be found on NDWR's website at <http://water.nv.gov/WaterLevelData.aspx>, or via the Nevada Hydrology Data Mapping Application, accessible at <http://water.nv.gov/mapping.aspx>. Groundwater level data are also collected by the U.S. Geological Survey (USGS) at various locations across the state and may be accessed through their website at <https://waterdata.usgs.gov/nv/nwis/gw>.

## METHODS TO ESTIMATE PUMPAGE

One of the purposes of this report is to estimate the amount of groundwater pumped under vested claims, permits and certificates issued by the State Engineer, as well as the amount pumped by the exempt domestic wells in the valley. Table 1 and Figure 3 show historical pumpage by manner of use; Figure 4 shows the percentage of water pumped by manner of use; and Figure 5 compares groundwater commitments and estimated pumpage by manner of use. The following methods were used to arrive at the estimated use:

- Where totalizing meters were in place, meter readings were taken and compared with previous data (if available).
- Where meters were not in place and the use was irrigation, pumpage was estimated by multiplying the number of hours the well was operated during the past year (determined from an hour meter reading or asking the water user) by the certificated diversion rate.
- Where there were no flow meters or other reliable options for estimating pumpage and the use was irrigation, pumpage was estimated by dividing the Net Irrigation Water Requirement (NIWR) for the crop grown by the efficiency of the irrigation method used, then multiplying by the number of acres irrigated. Irrigation efficiencies associated with three types of irrigation methods are pivot at 85%, wheel line or other hand moved sprinklers at 75%, and flood at 60%. The pumpage amount estimated by this method was limited by the duty of the permit. For places where the groundwater rights were supplemental to surface water, groundwater use was estimated using the NIWR method above, but adjusted based on available surface water for the year. Evapotranspiration and NIWR data by basin can be found on the NDWR website at: <http://water.nv.gov/Evapotranspiration.aspx>.
- Where meters were not present, previous data were not available, and the manner of use was not irrigation, pumpage was estimated by applying the annual duty associated with the certificate (if the water right was perfected), permit or claim, if the use was as described in the certificate, permit or claim. If the use was not as described in the certificate, permit or claim, a value was estimated based upon the circumstances of use for the subject year.
- Exempt domestic wells may be drilled and utilized where water service from a purveyor is not available. These types of wells do not require a permit from the State Engineer if they do not pump more than 2 acre-feet per year as provided by Nevada Revised Statutes (NRS) [534.180](#). [NRS 534.013](#) defines this category of domestic use as follows: “*Domestic use or domestic purposes extends to culinary and household purposes directly related to a single family dwelling, including, without limitation, the watering of a family garden and lawn and the watering of livestock and any other domestic animals or household pets.*” The number of exempt domestic wells in the basin was determined by a query of the NDWR Well Log Database. The amount of water pumped by exempt domestic wells was estimated to be 0.5 acre-foot per well in Mesquite Valley, or 461 acre-feet.

## TABLES

Table 1. Mesquite Valley historical pumpage (acre-feet) by water year.

<b>YEAR</b>	<b>COM</b>	<b>DOM</b>	<b>IRR</b>	<b>MM</b>	<b>QM</b>	<b>TOTAL</b>
<b>2017</b>	14	443	34	0	134	625
<b>2018</b>	9	446	37	0	141	633
<b>2019</b>	7	456	30	0	133	626
<b>2020</b>	7	456	21	0	134	618
<b>2021</b>	6	461	37	0	122	626

# FIGURES

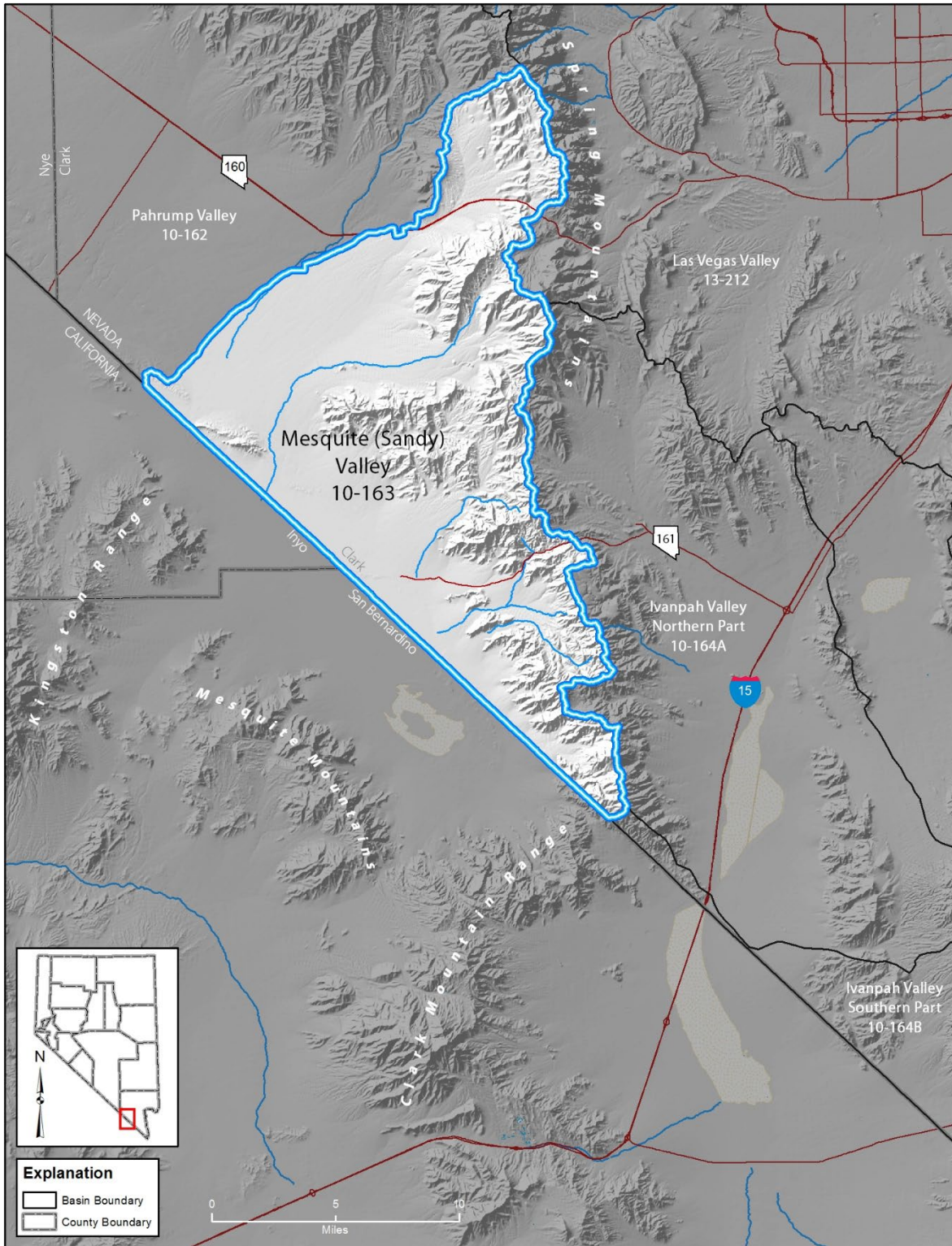


Figure 1. Physiographic map of Mesquite Valley (Hydrographic Basin 10-163).

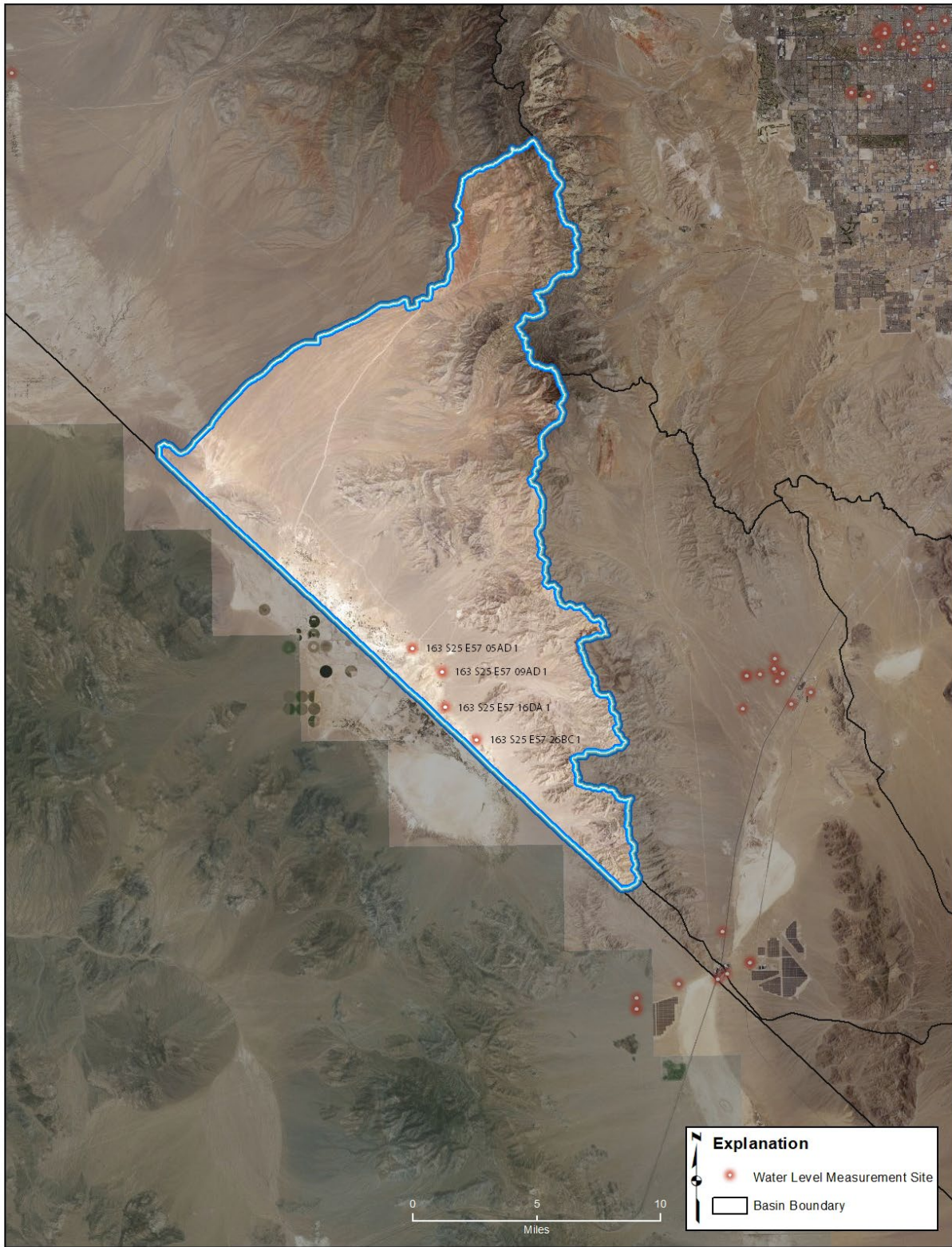


Figure 2. Mesquite Valley groundwater level measurement sites.

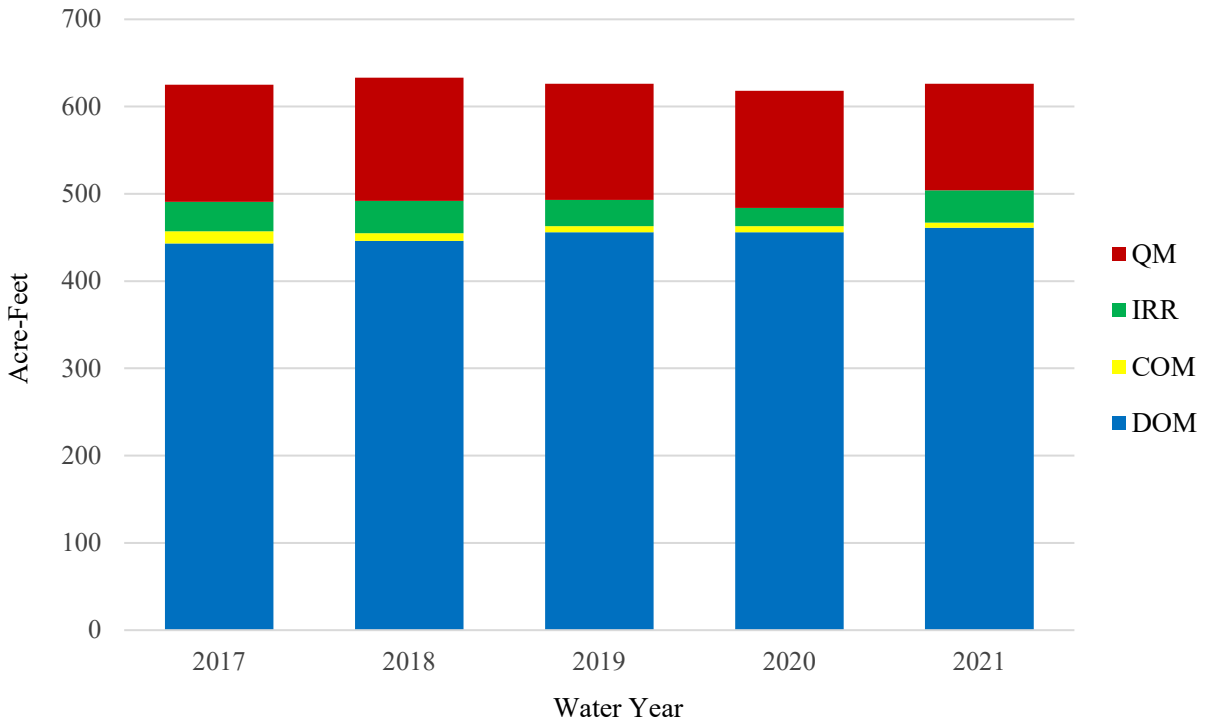


Figure 3. Mesquite Valley historical pumpage by manner of use.

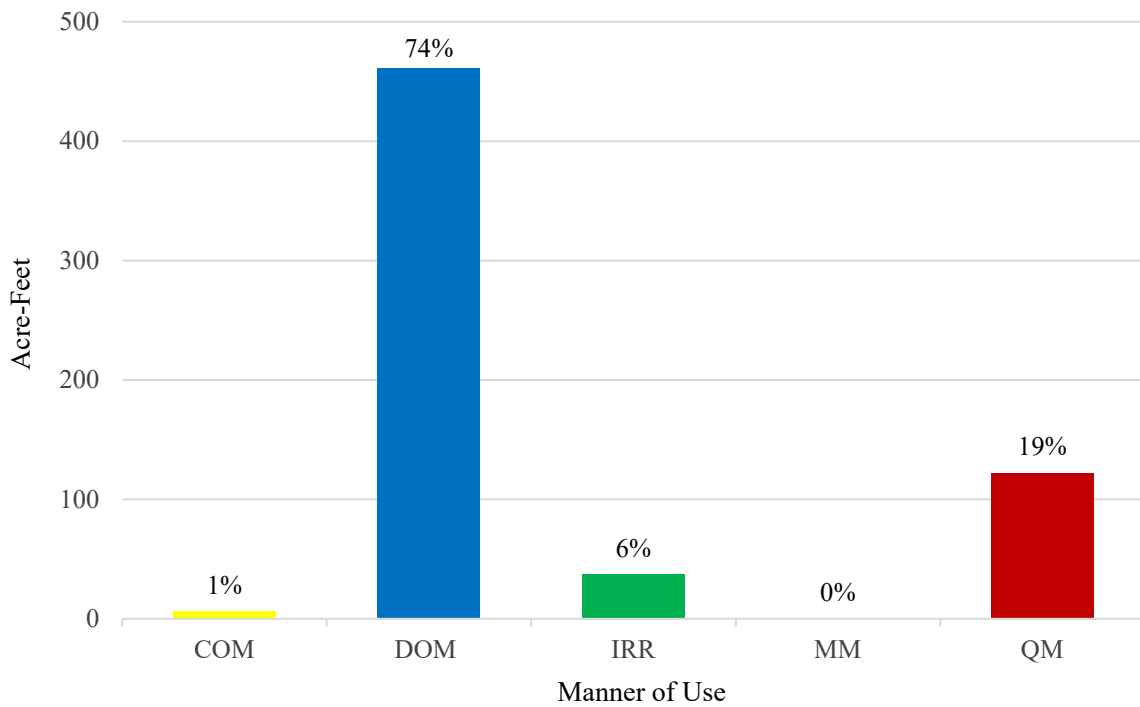


Figure 4. Percentage of 2021 groundwater pumpage by manner of use.

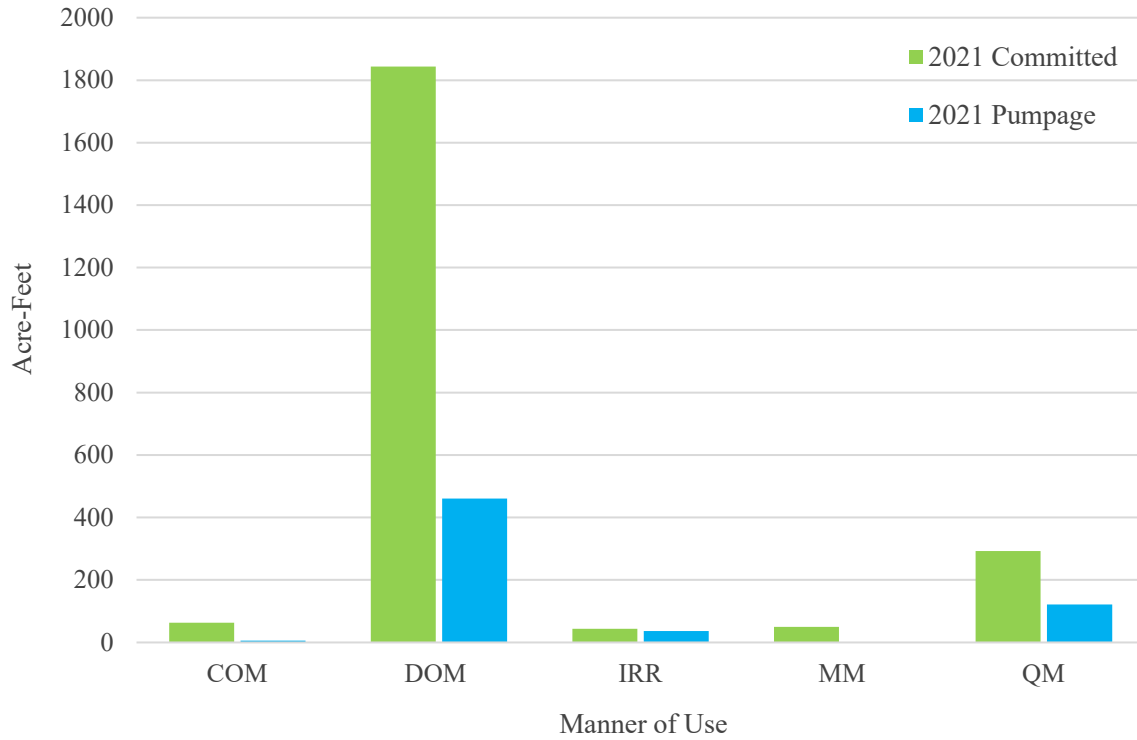


Figure 5. Comparison between 2021 groundwater commitments and estimated pumpage.

**APPENDIX A. MESQUITE VALLEY 2021 GROUNDWATER PUMPAGE BY  
APPLICATION NUMBER**

## EXPLANATION OF COLUMN HEADINGS FOR GROUNDWATER PUMPAGE INVENTORY

- APP NUMBER**      The file number of the Application or the Claim of Vested Right.
- STATUS**            Indicates if the application is a Claim of Vested Right (VST), a Permit (Permit), Certificated (Cert), Cancelled (Can), Forfeited (For), Expired (Exp), or Abrogated (Abr).
- OWNER OF RECORD**    The owner of the water right as recorded in the files of the State Engineer. A water right may have more than one owner of record.
- PLACE OF USE**
- QQ**                  The quarter quarter of the Section in which the place of use and/or point of diversion is located.
- Qtr**                 The quarter of the Section in which the place of use and/or point of diversion is located.
- Sec**                 The Section in which the place of use and/or point of diversion is located.
- T**                    The Township in which the place of use and/or point of diversion is located.
- R**                    The Range in which the place of use and/or point of diversion is located.
- ACRES OR DUTY**      The number of acres that are permitted to be irrigated or the duty if the manner of use is anything other than irrigation.
- ACRES IRR OR USE**    The number of acres irrigated or the manner of use of the appropriated water. The types of manner of use may include:
- |                       |                      |                  |
|-----------------------|----------------------|------------------|
| COM - Commercial      | CON - Construction   | DOM - Domestic   |
| ENV - Environmental   | IND - Industrial     | IRR - Irrigation |
| MM - Mining & Milling | MUN - Municipal      | OTH - Other      |
| PWR - Power           | QM - Quasi-Municipal | REC - Recreation |
| STK - Stockwater      | STO - Storage        | WLD - Wildlife   |
- USED (AF)**        The amount of water used during the water year, in acre-feet, as determined by review of records and/or field investigation.
- REMARKS**         Notes pertaining to field investigation and/or review of records.

**GROUNDWATER PUMPAGE INVENTORY MESQUITE (SANDY) VALLEY, NO. 163  
2021**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
V09638 V09639	VST VST	KMI Zeolite, Inc.	N2	SW	03	25	57	0.00	MM	<b>0.00</b>	WV, no meter. Mine vacant Well disconnected, 9-16-21
26713	Cert	Ferrari III, LLC	SW	SW	25	24	56	0.60	0.00	<b>1.00</b>	S/N 9812750 Domestic use. RD - 6,264,300 - 09-17-20 RD - 6,264,300 - 09-16-21
28954	Cert	Bell Telephone	SE	SW	31	24	57	0.06	COM	<b>0.06</b>	POD 28945: S/N 78915860 RD - Shed locked - 09-16-21 Pumpage = Duty Shed locked since 2019
31209	Permit	Sky Ranch Estates Owners Association	SW	SE	06	25	57	81.57	QM	<b>0.13</b>	POD 31209 (Well 2): S/N 66143282 RD - 8,587,800 - 09-17-20 RD - 8,609,500 - 4-18-21 New meter installed 5-3-21 S/N 31005560 RD - 19,700 - 9-16-21
42512 67960	Permit Permit	Sky Ranch Estates Sky Ranch Estates						81.57 70.50	QM	<b>43.08</b>	POD 42512 & 67960 (Well 1): S/N 135877 RD - 81,928,000 - 09-17-20 RD - 95,927,000 - 09-16-21
59006	Cert	Larson, Mel & Marilyn						8.96	QM	<b>18.12</b>	POD 59006: S/N 144889 RD - 50,286,700 - 09-17-20 RD - 56,176,300 - 09-16-21 45 homes, 12 mobile homes, 33 hangars, 2 commercials bldgs.
38311	Cert	Glen Sweney	SW	SE	32	24	57	3.13	QM	<b>3.13</b>	S/N 05004964 1 trailer, restaurant RD - 24,638,500 - 09-17-20 RD - 24,638,500 - 09-16-21 Broken meter since 2019 2021 pumpage = Duty

**GROUNDWATER PUMPAGE INVENTORY MESQUITE (SANDY) VALLEY, NO. 163  
2021**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
45515	Cert	Lino & Oralva Mejia	SW	SW	25	24	56	4.75	4.00	<b>36.00</b>	POD: 45515 & 50646: S/N 873082-06
50656	Cert	Lino & Oralva Mejia 811 E. Quartz LLC						4.74	<u>3.50</u>		RD - 16,395,000 - 09-17-20
									7.50		RD - 16,395,000 - 09-16-21
											Permitted duty 41.03 Ac-Ft/Yr
											Domestic well serves 50656 POU
											Broken meter since 2019
											Low managed pasture grass, sprinklers
											NIWR = 3.6
45690	Abr	Clark County	N2	SW	32	24	57	31.26	QM	<b>11.07</b>	POD 85202, 85203 & 90185:
50990	Abr										No S/N. Sandy Valley School
85202	Permit	Valley Educational									RD - 76,830,500 - 09-17-20
85203	Permit										RD - 80,427,500 - 09-16-21
89945	Permit	Clark County School Dist.									
90184	Permit	Clark County School Dist.									POD 90184: WNV 9-16-21
90185	Permit	Clark County School Dist.									
45762	Cert	L.D.S. Church	SW	NE	04	25	57	2.90	QM	<b>2.90</b>	S/N 67305279
											RD - 11,709,460 - 09-25-19
											RD - Shed locked in 2020 & 2021
											Pumpage = Duty
50579	Cert	Joseph L. Rodriguez Jr.	NW	SW	25	24	56	1.00	QM	<b>1.48</b>	S/N 051158204
											RD - 8,453,000 - 09-17-20
											RD - 8,933,200 - 09-16-21
57190	Cert	Jim Slankard	SW	SE	31	24	57	1.12	COM	<b>0.74</b>	S/N 92538818 General Store
											RD - 27,931,100 - 09-17-20
											RD - 28,173,100- 09-16-21
60087	Cert	Edward & Lana Haddad Revoc. Trust	NE	NE	06	25	57	2.02	COM	<b>0.16</b>	S/N 94528666 Shopping center
											RD - 7,817,300 - 09-17-20
											RD - 7,868,900 - 09-16-21

**GROUNDWATER PUMPAGE INVENTORY MESQUITE (SANDY) VALLEY, NO. 163  
2021**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
60264	Permit	Clark County Parks and Rec.	Lt.	01	01	23	57	8.00	QM	<b>0.00</b>	Camp Potosi. S/N 49081567 RD - 2,748,000 - 09-17-20 RD - 2,748,000 - 09-16-21
61409	Can	Augustine Bustos	SW	SW	01	23	57	19.33	COM	<b>0.00</b>	Permit Cancelled 12/10/2010 S/N 12005462 RD - 39,980 - 08-23-19 RD - 39,980 - 08-25-20 No reading taken in 2021
62466	Permit	Skip Powell Mgmt. Corp	NE	SW	24	24	56	4.50	COM	<b>0.00</b>	S/N 96502368 gravel pit RD - 20,622,300 - 09-17-20 RD - 20,622,300 - 09-16-21
62506 62507 62941 83124T	Permit Permit Permit Expired	Clark County	Gov.	Lot #6	36	24	56	90.00	QM  QM	<b>4.73</b>  <b>22.91</b>	POD 62507 & 62941 (Well 2): S/N 60609832 Used for IRR & fire New meter in 2021: RD - 15,956,000 9-16-21 2021 pumpage = 2020 pumpage POD 62506 (Well 4): S/N 19026854 Used for potable water RD - 6,792,800 - 09-17-20 RD - 14,238,400 - 09-16-21
64471	Cert	Valley Elect. Assoc. Inc.	SW	SW	32	24	57	1.12	COM	<b>0.02</b>	S/N 16-032790 RD - 94,200 - 09-17-20 RD - 101,900 - 9-16-21
65713	Can	Talavera	SW	SE	32	24	57	1.34	COM	<b>0.00</b>	WV, open casing, POU vacant Permit Cancelled 05-20-16
66227 72909	DEN DEN	Vidler Water Company	NW	NE	14	25	57	415.00	QM	<b>0.00</b>	WV, capped. 09-17-20
66275	Cert	John Kamps	SW	NE	05	25	57	0.98	COM	<b>0.50</b>	S/N 70809192 American Gas RD - 193,910 - 09-17-20 RD - 193,910 - 09-16-21 Broken meter since 2019; Partial Credit

**GROUNDWATER PUMPAGE INVENTORY MESQUITE (SANDY) VALLEY, NO. 163  
2021**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
66545	Cert	Valley Educational	SE	SE	31	24	57	8.35	QM	<b>10.91</b>	POD 66545
84183	Can	Valley Educational	SE	SE	31	24	57				S/N 0108206, meter units in cubic ft. RD - (1)0,896,710 - 09-17-20 RD - (1)1,370,630 - 09-16-21  POD 84183 S/N 14012048 meter units in gallons RD - 1,330,210 - 09-28-20 No reading taken in 2021 Permit cancelled 5-17-16
67442	Permit	Benny LLC & Mark Weinger	NE	NW	06	25	57	2.02	COM	<b>0.00</b>	S/N 00728194 No access, Gate locked since 2017
70428	Permit	ACVLB Family Trust	NE	SE	19	22	58	4.03	COM	<b>3.18</b>	S/N 64677680 Mtn. Springs Bar RD - 10,677,500 - 08-23-19 RD - 11,722,100 - 08-25-20 No reading taken in 2021 2021 pumpage = 2020 pumpage
71449	Can	ACVLB Family Trust	NW	SW	20	22	58	8.00	COM	<b>0.55</b>	Permit cancelled 1/28/2011 :S/N 12005461 RD - 4,500,100 - 08-23-19 RD - 4,682,100 - 08-25-20 No reading taken in 2021 2021 pumpage = 2020 pumpage
71962	Can	Sandy Valley Rancheros Water Users	SW	SE	32	24	57	3.36	QM	<b>1.78</b>	S/N 850859 RD - 28,457,600 - 09-17-20 RD - 29,036,100 - 09-16-21 Permit cancelled 10/6/2010
73594	Cert	Sandy Valley Church	SW	NE	06	25	57	2.00	COM	<b>0.30</b>	S/N 955877 RD - 9,840,400 - 09-17-20 RD - 9,938,300 - 09-16-21
74313	Permit	Zeigler	NW	NE	5	25	57	12.00	COM	<b>0.00</b>	WNV, POU vacant. 09-16-21

**GROUNDWATER PUMPAGE INVENTORY MESQUITE (SANDY) VALLEY, NO. 163  
2021**

APP NUMBER	STATUS	OWNER OF RECORD	PLACE OF USE					ACRES OR DUTY	ACRES IRR OR USE	USED (A/F)	REMARKS
			QQ	Qtr	Sec	T	R				
83725	Permit	Altschuler Trust	SW	SW	25	24	56	4.00	QM	2.00	S/N 66979529
75476	Abr	Altschuler Trust	NW	SW	25	24	56				RD - 110 - 09-25-19 RD - 110 - 09-17-20 Meter Removed 9-16-21 2021 pumpage = 2020 pumpage
77285	Permit	Monte & Annette Brown	S2	SW	31	24	58	2.00	COM	0.00	S/N 07021925
77286	Permit	Living Trust	NE	NE	06	25	58	50.00	MM	0.00	09-25-19 - Meter Removed 09-17-20 - Meter Removed Gravel pit, no use, no meter 9-16-21
			NW	NE	06	25	58				
84258	Can	Robert Fulstone	NE	NW	06	25	57	1.00	COM	0.00	Existing well, no works, vacant lot 9-16-21 Permit cancelled 4-17-18
87198	Permit	Hurry It Up	SE	SW	32	24	57	1.00	COM	0.00	WV, log # 137985 9-16-21
88245	Permit	Potosi, LTD	SW	SW	01	23	57	72.50	QM	0.00	WV. No meter 9-16-21
88246	Permit		NW	NE	12	23	57	72.50	QM		Permit Cancelled 6-22-21
			SW	NE							
			NW	SE							
				W2							
89280	Permit	Green Therapeutics	SE	NE	21	24	56	30.00	COM	0.00	Well visible, no meter 9-16-21
			NE	SE							
									<b>TOTAL</b>	<b>164.75</b>	<b>Permitted rights</b>

Verified with field notes: Christi Cooper

**APPENDIX B. MESQUITE VALLEY 2021 GROUNDWATER PUMPAGE FIELD  
NOTES**

2021

Mesquite (Sandy) Valley  
**No. 163**

Inventory Field Notes

compiled by  
Tracy Geter & Christi Cooper

State of Nevada  
Division of Water Resources  
Southern Nevada Branch Office

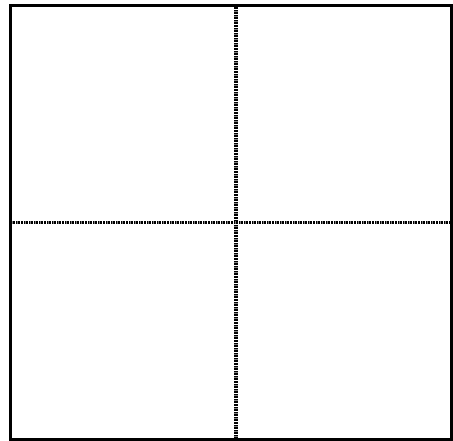
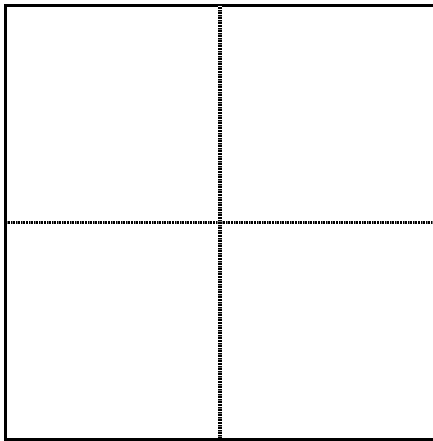
# PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 163 PERMIT NO: 26713  
WELL: YES X NO        METER SER NO: 9812750  
PUMP: YES X NO        PUMP TYPE: Submersible  
MOTOR: YES        NO X MOTOR TYPE:         
METER: YES X NO        METER READ: 6,264,300  
PHOTO: YES        NO X ACRES IRR: 0  
BENEFICIAL USE: YES X NO        PORTION X ALL        TYPE Irrigation

IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

       1/4        1/4 SEC       

       1/4        1/4 SEC       



REMARKS: APN 200-25-401-002. Domestic use, no irrigation.

Hersey Meter: RD - 5,802,400 on 9-30-19; RD - 6,264,300 on 9-17-20

RD - 6,264,300 on 9-16-21

Well is inside "Spring House" shed.

SIGNATURE: Christi Cooper DATE: 9/16/2021

# PUMPAGE INVENTORY FIELD REPORT

BASIN NO: 163

PERMIT NO: 45515 & 50656

WELL: YES  NO

METER SER NO: 873082-06

PUMP: YES  NO

PUMP TYPE: \_\_\_\_\_

MOTOR: YES  NO

MOTOR TYPE: Turbine

METER: YES  NO

METER READ: 16,395,000

PHOTO: YES  NO

ACRES IRR: 7.5

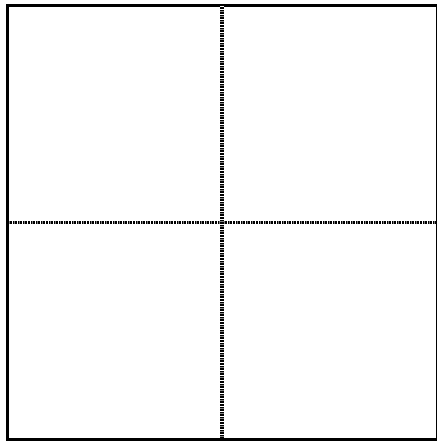
BENEFICIAL USE: YES  NO

PORTION  ALL  TYPE Irrigation

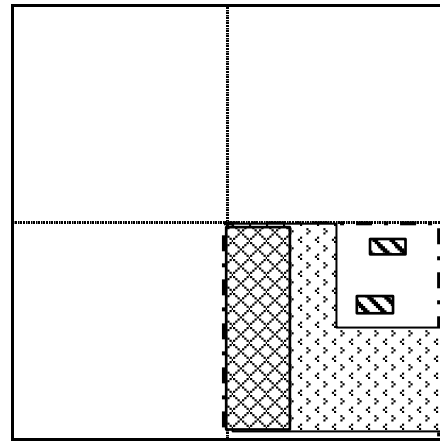
IF PARTIAL USE, SKETCH OF LAND IRRIGATED.

     1/4      1/4 SEC     

SW 1/4 SW 1/4 SEC 25



- Place of Use
- Alfalfa
- House and Storage Shed
- African Lilies



REMARKS: Alfalfa, wheel line. Broken meter since 2019.

RD - 16,395,000 on 9-25-19, 9-17-20 and 9-16-21.

Use NIWR for Low Managed Pasture, Sprinklers = 7.5 ac\*3.6/0.75 = 36.0 ac-ft

SIGNATURE: Christi Cooper

DATE: 9/16/2021