



STAFF REPORT

Report To: Board of Supervisors **Meeting Date:** July 16, 2020

Staff Contact: Nancy Paulson, City Manager

Agenda Title: Discussion Only: Discussion and presentation regarding the Water Supply Picture for the Carson River Watershed. (Ed James, edjames@cwsd.org)

Staff Summary: Edwin James with the Carson Water Subconservancy District (CWSD) will give a presentation on the Water Supply Picture for the Carson River Watershed. The presentation will summarize the groundwater levels throughout the watershed, discuss groundwater production for the various groundwater basins, review municipal water use, review stream flow along the Carson River and ditch diversions, and provide a discussion of a future Carson River Watershed Workshop.

Agenda Action: Other / Presentation **Time Requested:** 30 mins

Proposed Motion

N/A

Board's Strategic Goal

N/A

Previous Action

N/A

Background/Issues & Analysis

N/A

Applicable Statute, Code, Policy, Rule or Regulation

N/A

Financial Information

Is there a fiscal impact? No

If yes, account name/number:

Is it currently budgeted?

Explanation of Fiscal Impact:

Alternatives

N/A

Attachments:

[Water supply for the Carson River Watershed Carson City slides.pdf](#)

Board Action Taken:

Motion: _____

1) _____

2) _____

Aye/Nay

(Vote Recorded By)

Water Supply Picture For the Carson River Watershed

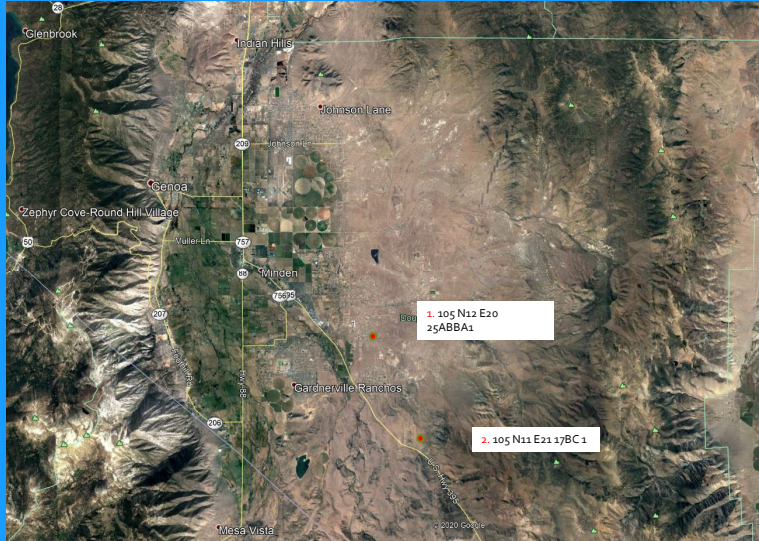


1

Summary of Groundwater Levels Throughout the Carson River Watershed

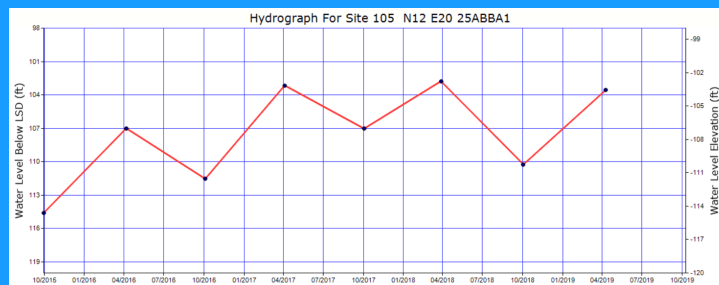
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SOUTH CARSON VALLEY GROUNDWATER LEVELS



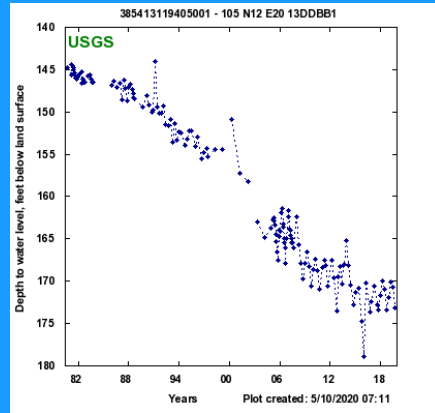
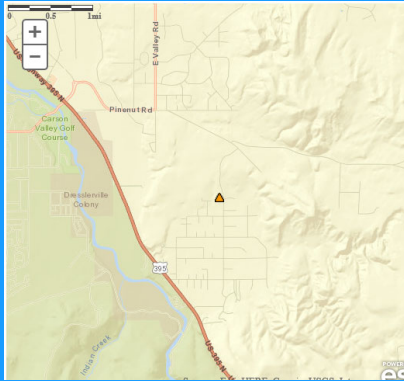
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South East Carson Valley



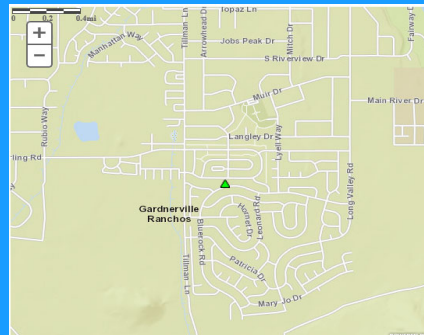
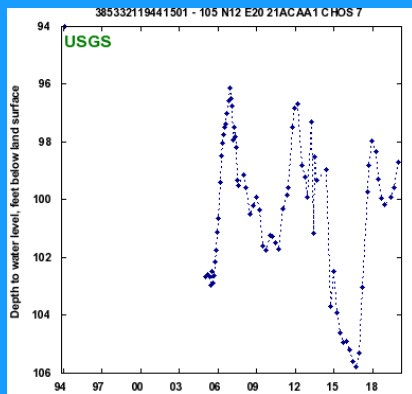
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Ruhenstroth Area



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GRGID Area



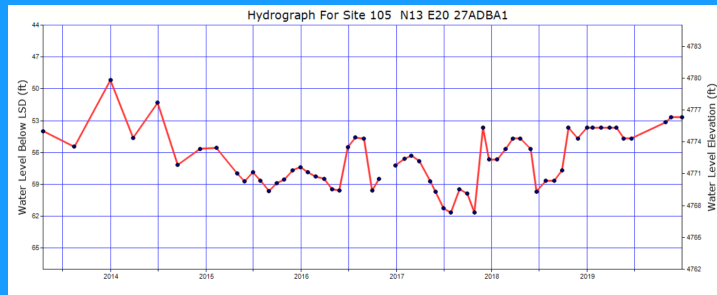
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MIDDLE CARSON VALLEY GROUNDWATER LEVELS

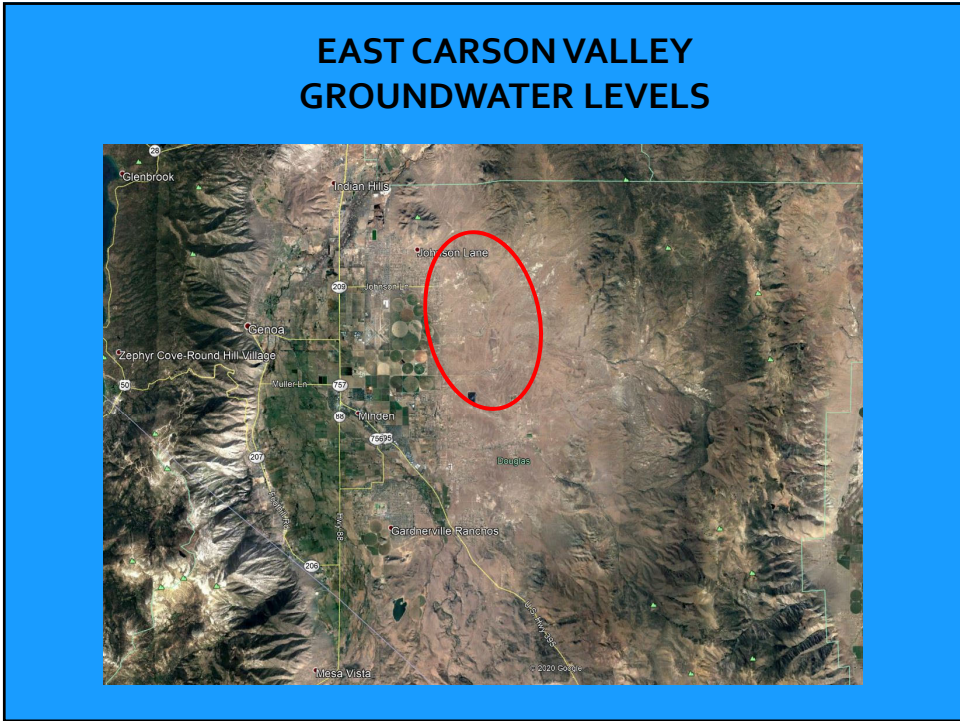


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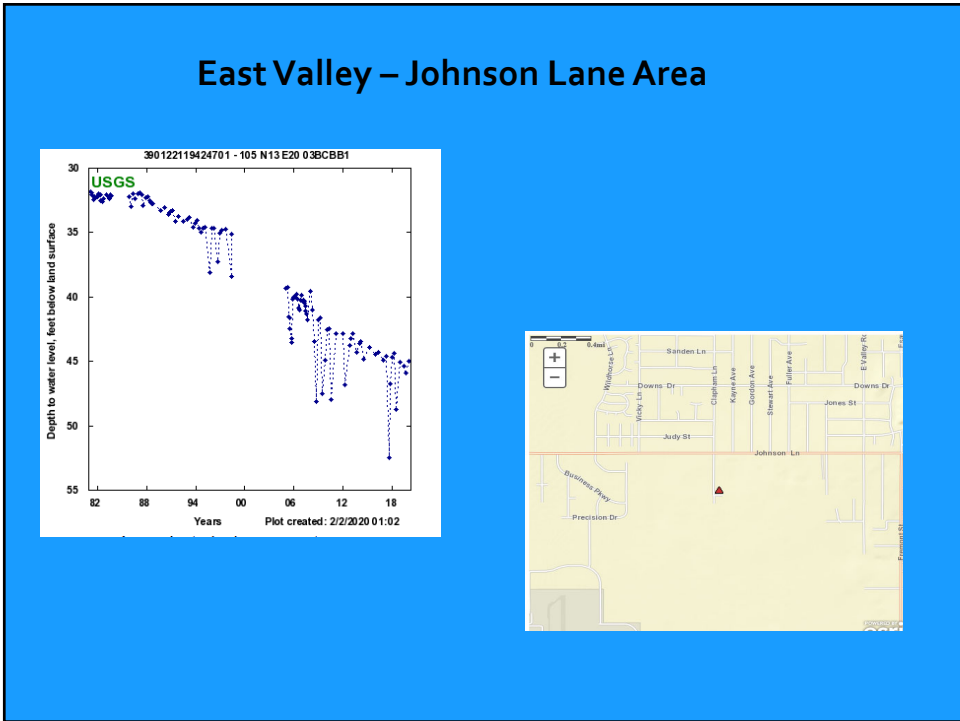
Middle Carson Valley Area



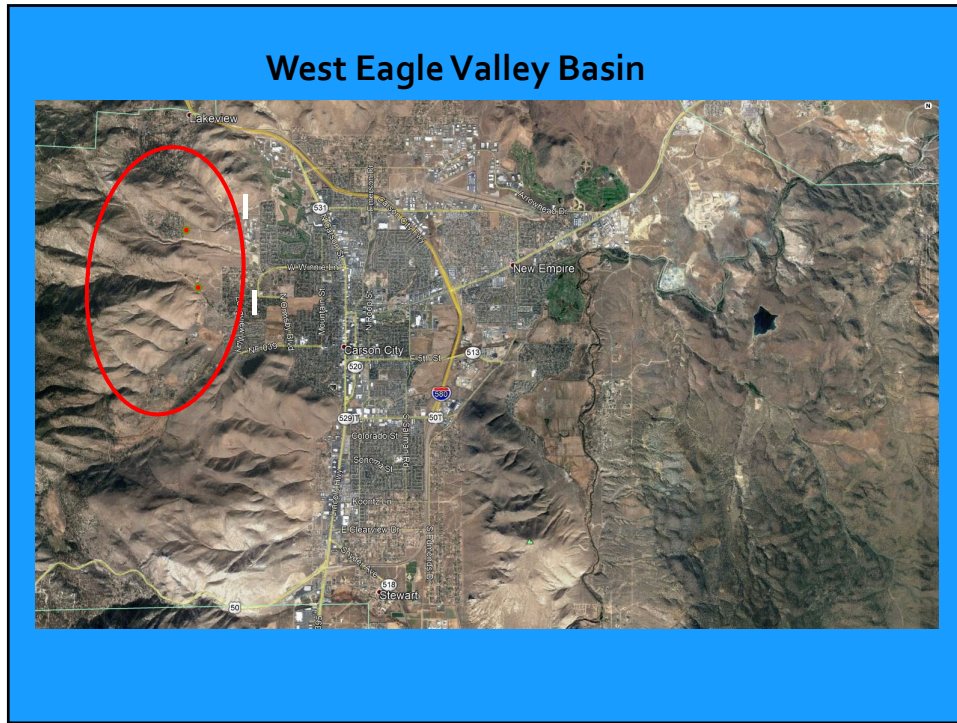
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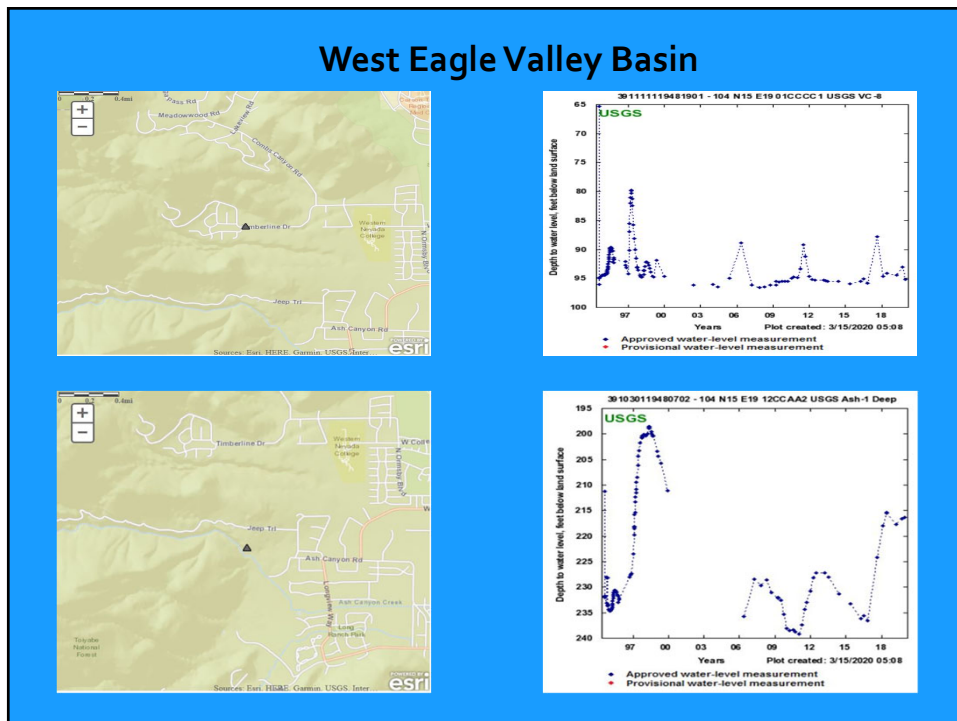
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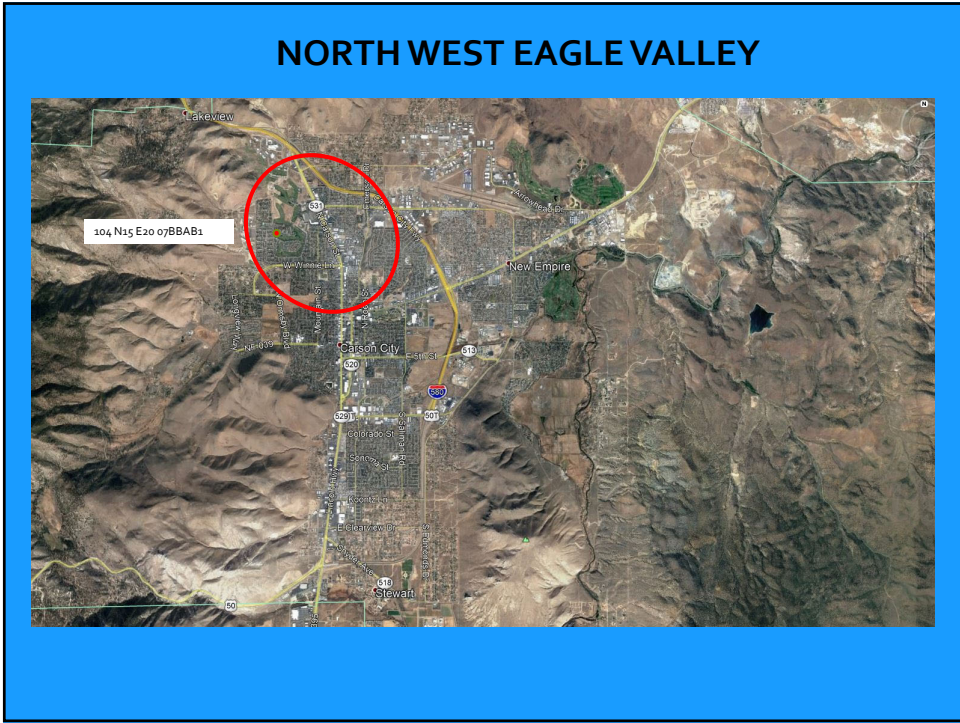
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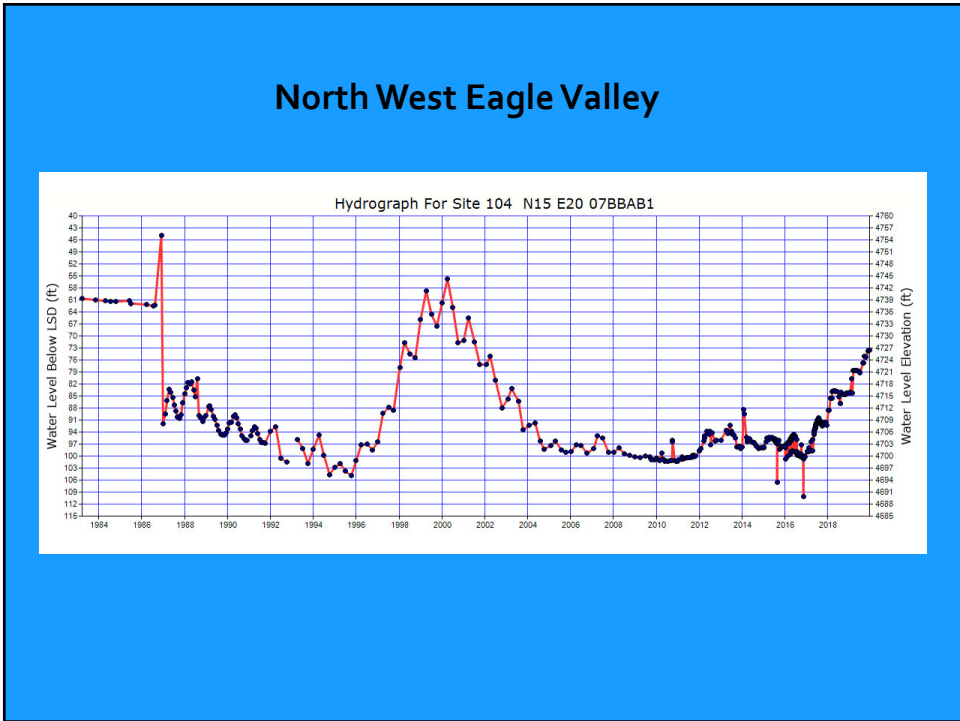
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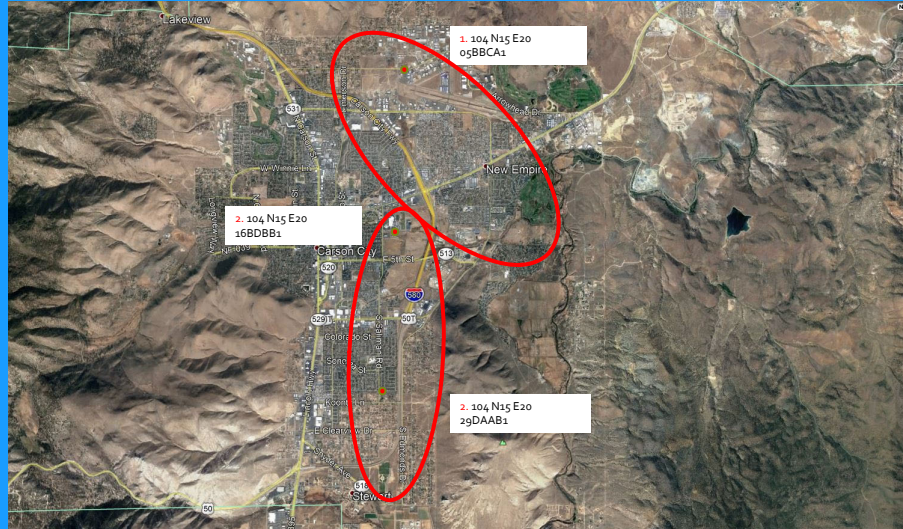


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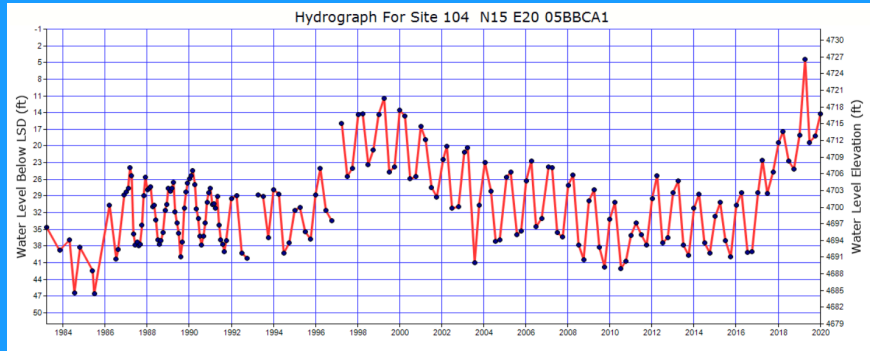
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Central Eagle Valley

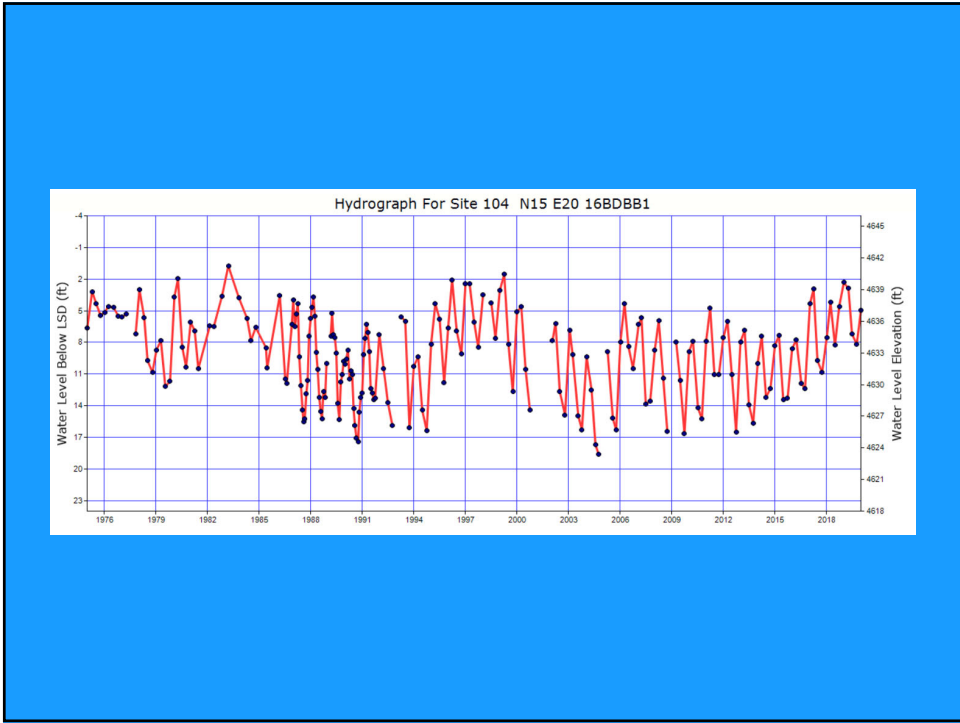


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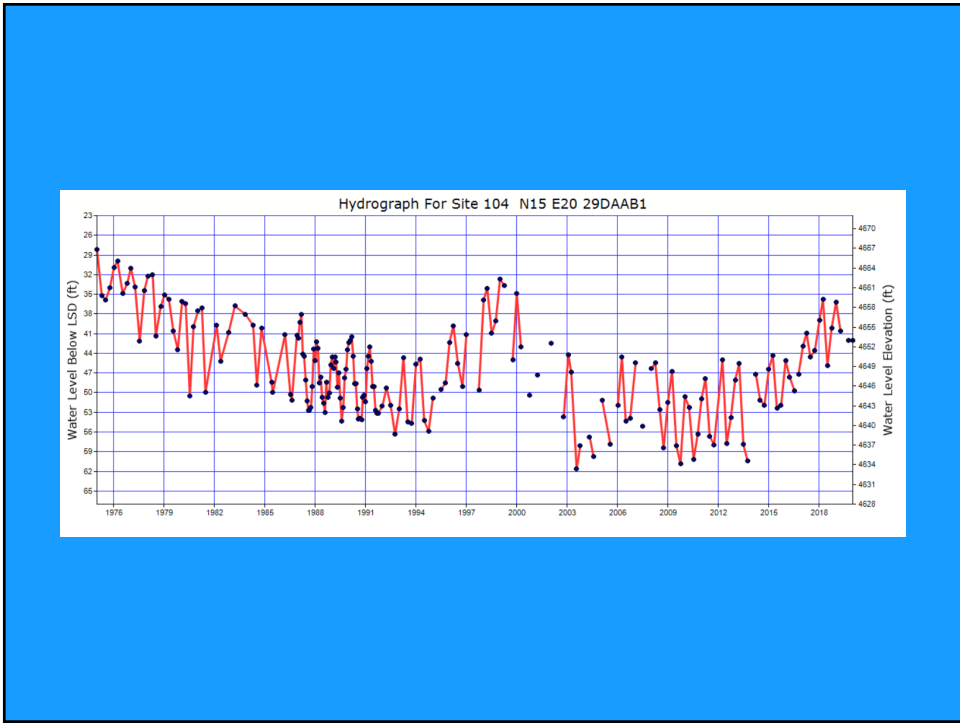
Hydrograph For Site 104 N15 E20 05BBCA1



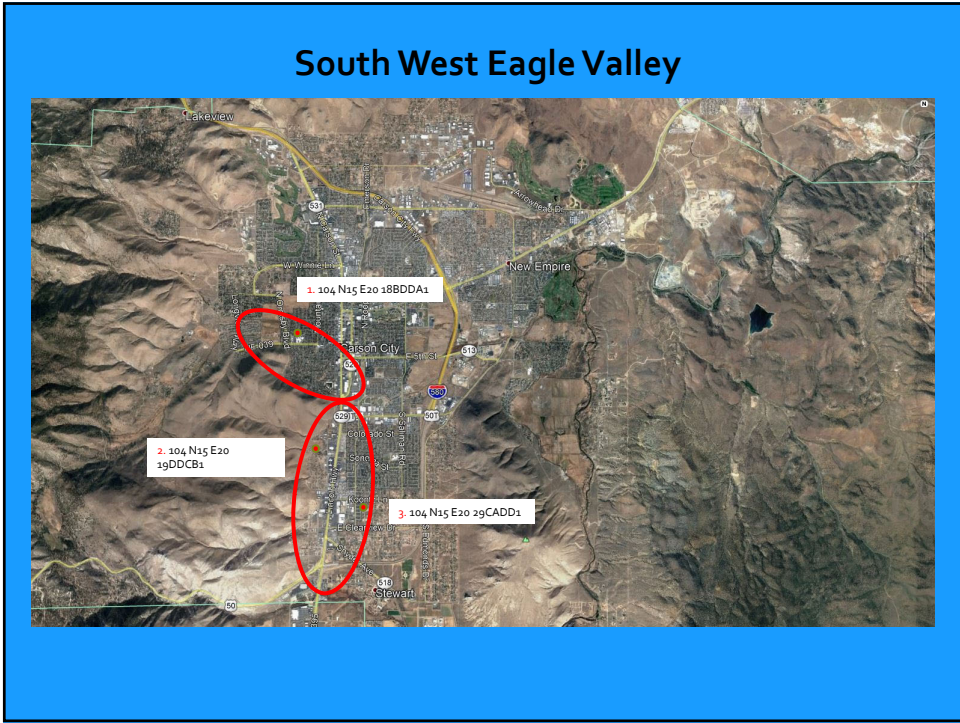
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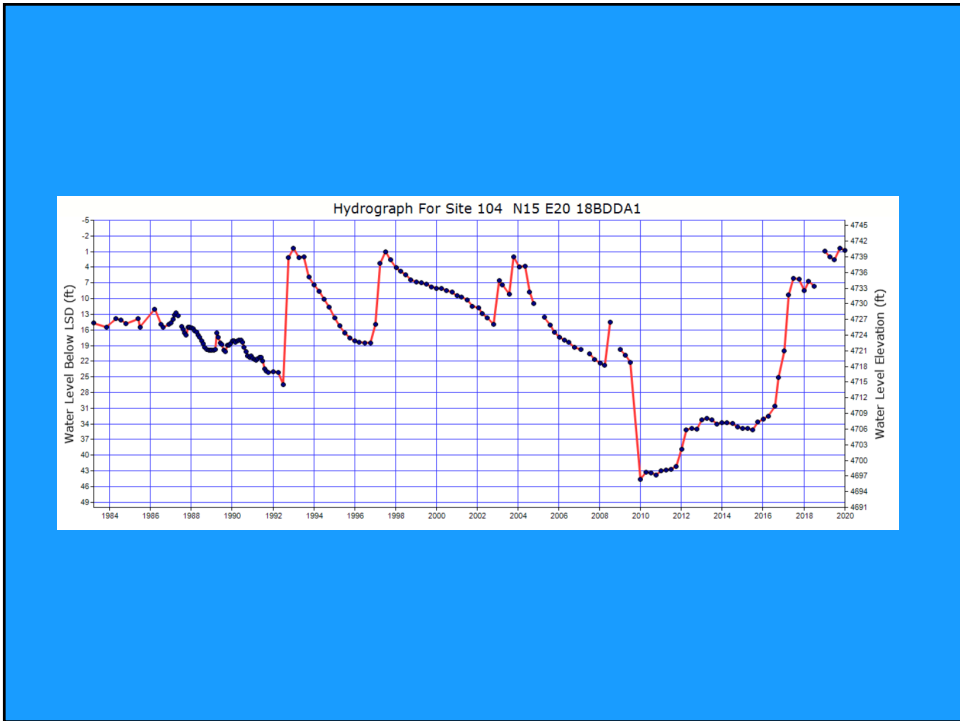
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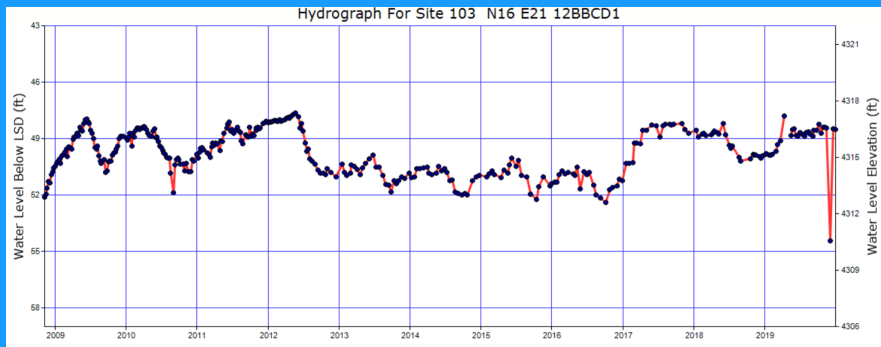
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DAYTON VALLEY BASIN

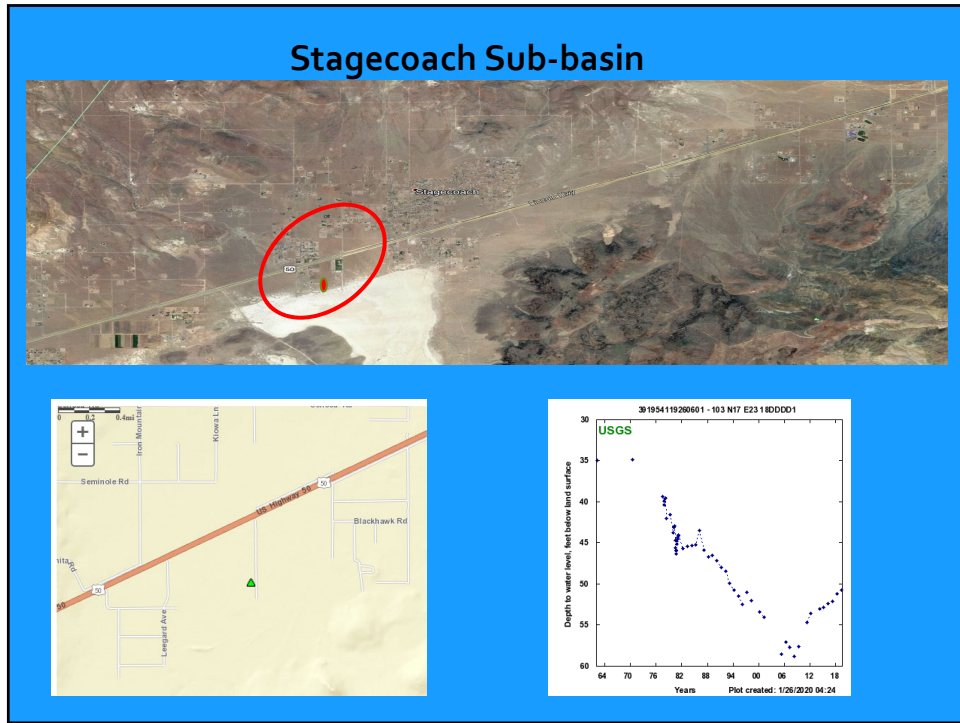


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DAYTON VALLEY BASIN



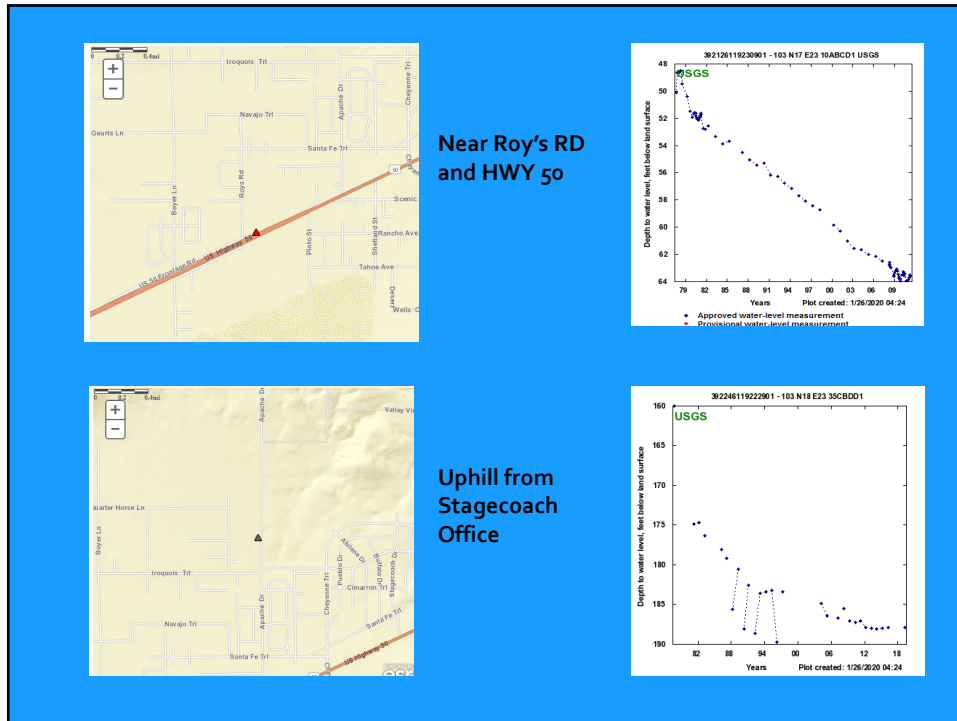
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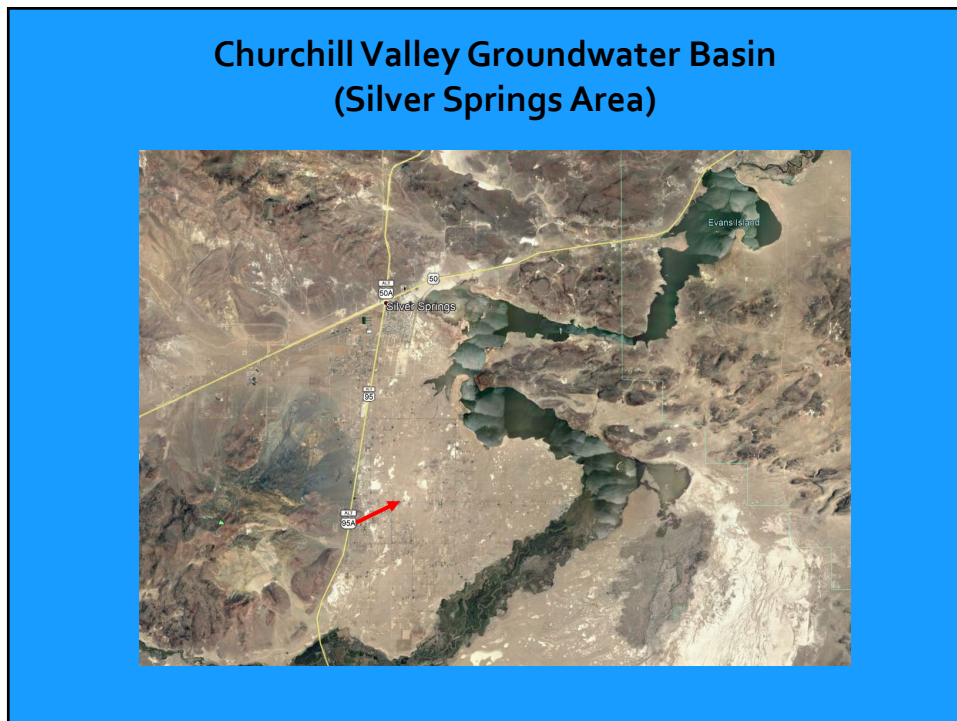
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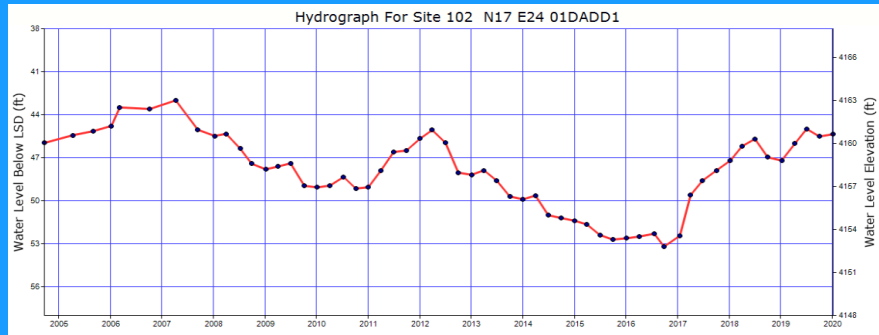


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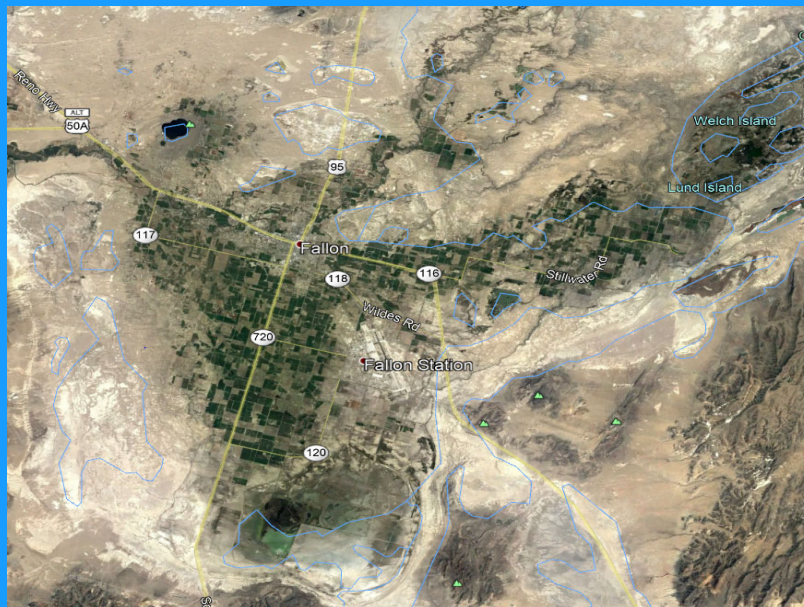
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Churchill Valley Groundwater Basin (Silver Springs Area)



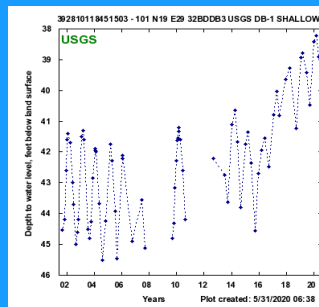
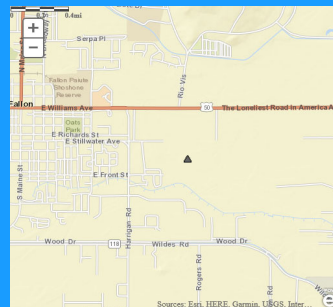
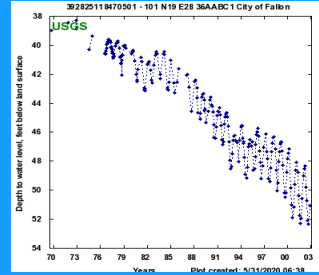
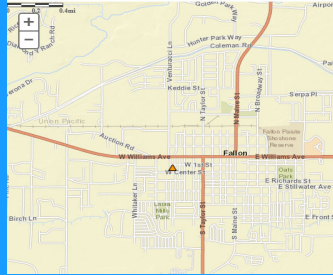
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Carson Desert Groundwater Basin



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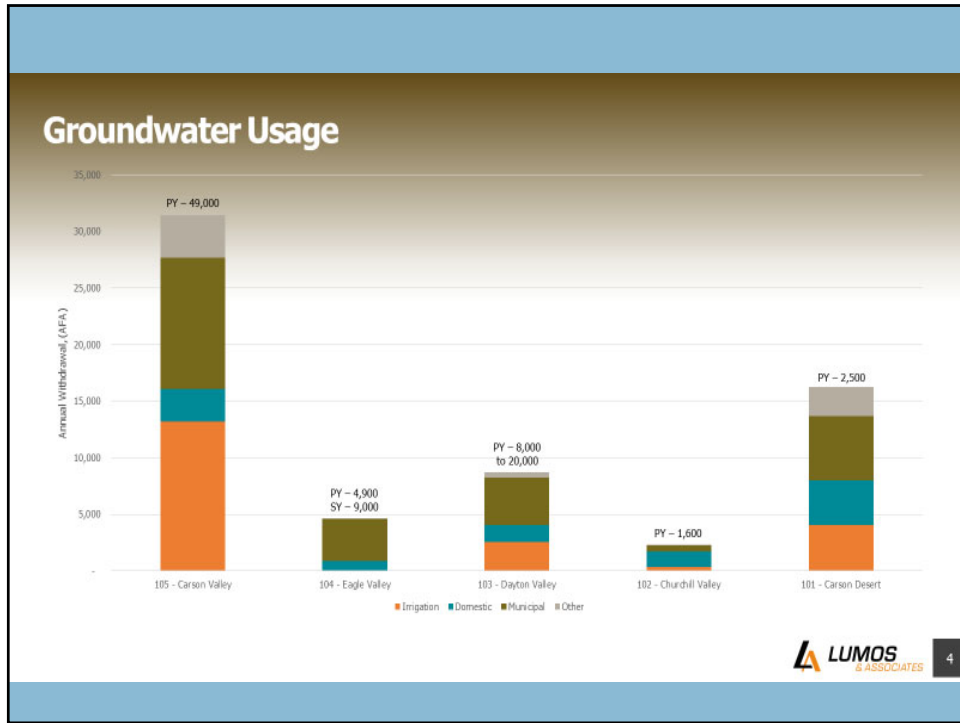
Carson Desert Groundwater Basin (Basalt Aquifer)



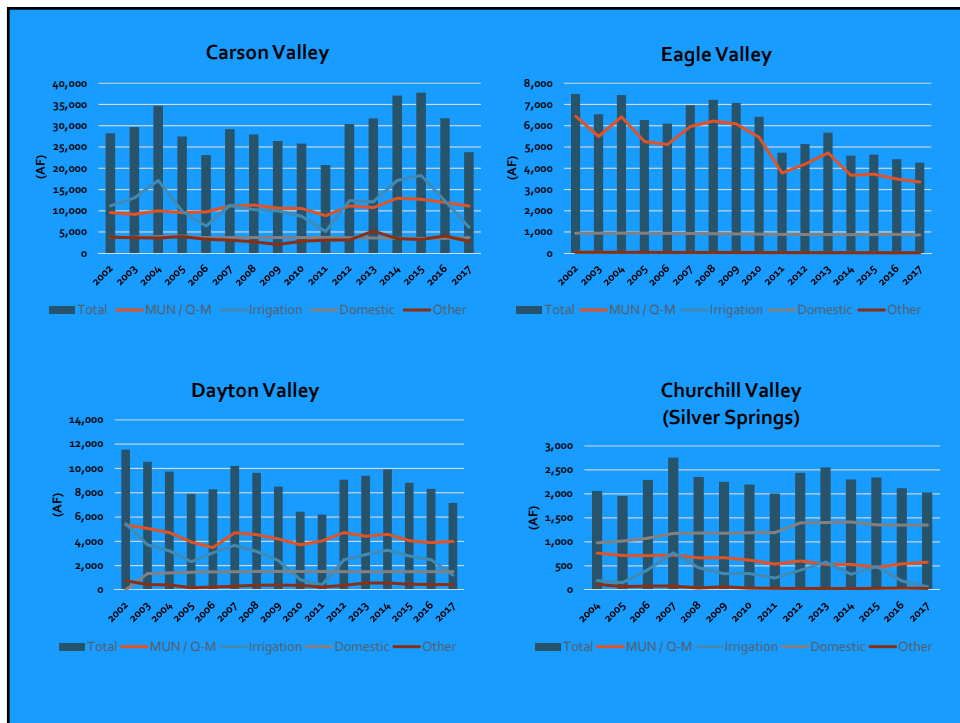
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GROUNDWATER PRODUCTION

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MUNICIPAL WATER USE

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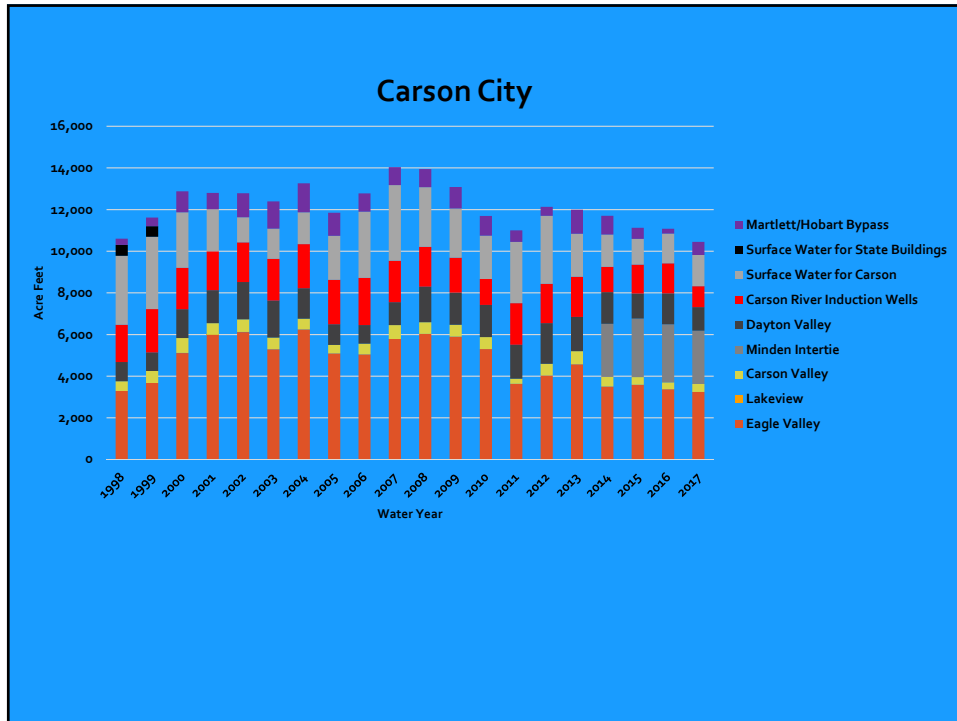
Community Water System Usage

	Connections	% of Connections	Average Annual Usage (AFA)	% of Average Usage	AFA per Connection	% of Avg AFA per Connection
Douglas County	2,378	6.4%	2,088	8.1%	0.76	126.9%
Gardnerville Ranchos GID	3,992	9.3%	2,881	11.2%	0.72	120.0%
Town of Minden	1,799	4.2%	1,252	4.9%	0.70	115.8%
City of Fallon	3,215	7.5%	2,220	8.6%	0.69	114.9%
Carson City	16,883	39.3%	11,078	42.9%	0.66	109.1%
Churchill County	271	0.6%	147	0.6%	0.54	90.5%
Gardnerville Water Co	2,376	5.5%	1,279	5.0%	0.54	89.5%
Indian Hills GID	1,950	4.5%	995	3.9%	0.51	84.8%
Stagecoach GID	564	1.3%	256	1.0%	0.45	75.5%
Silver Springs GID	1,088	2.5%	484	1.9%	0.44	74.0%
Lyon County Utility District	6,849	16.0%	2,772	10.7%	0.40	67.3%
Storey County	635	1.5%	231	0.9%	0.36	60.6%
NAS Fallon	550	1.3%	113	0.4%	0.21	34.2%
Total or Weighted Average	42,910		25,796		0.60	
System Total	44,019		26,463			

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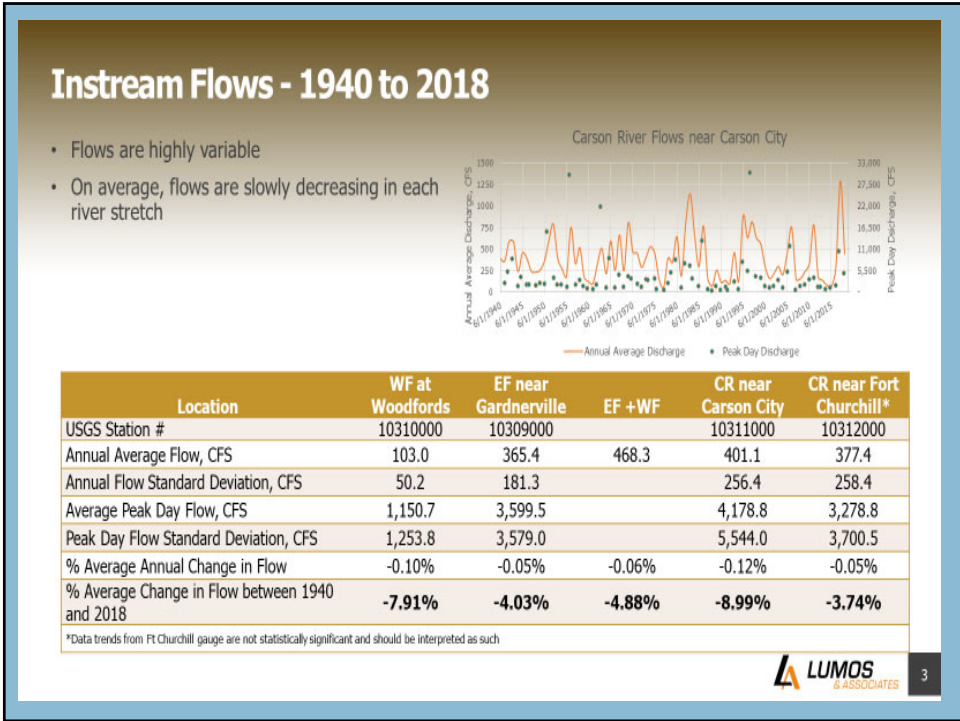
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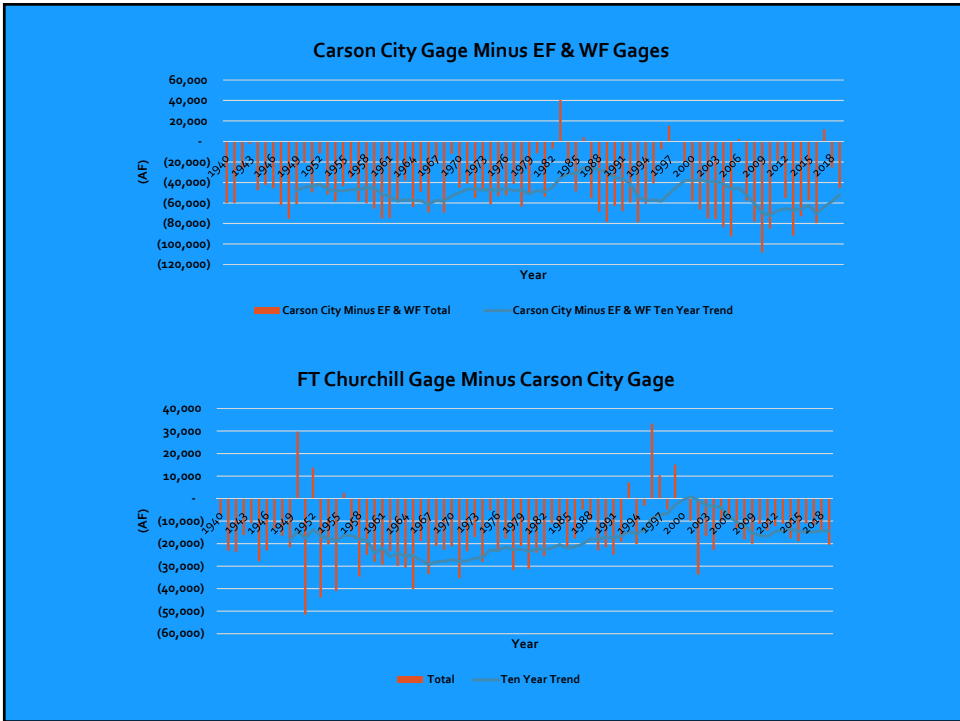
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STREAM FLOW ALONG THE CARSON RIVER

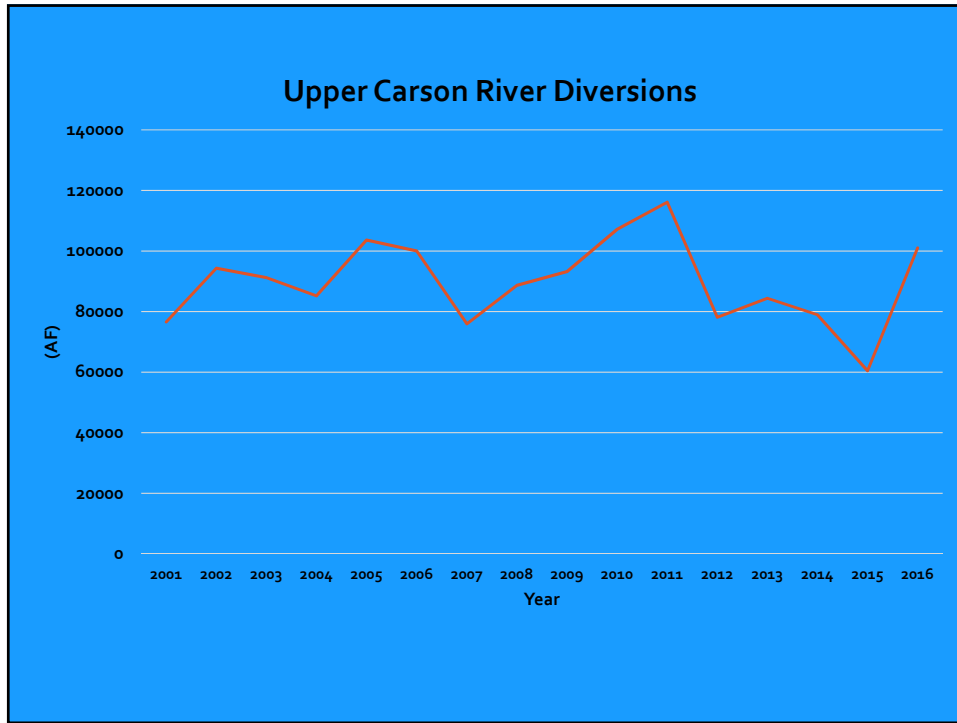
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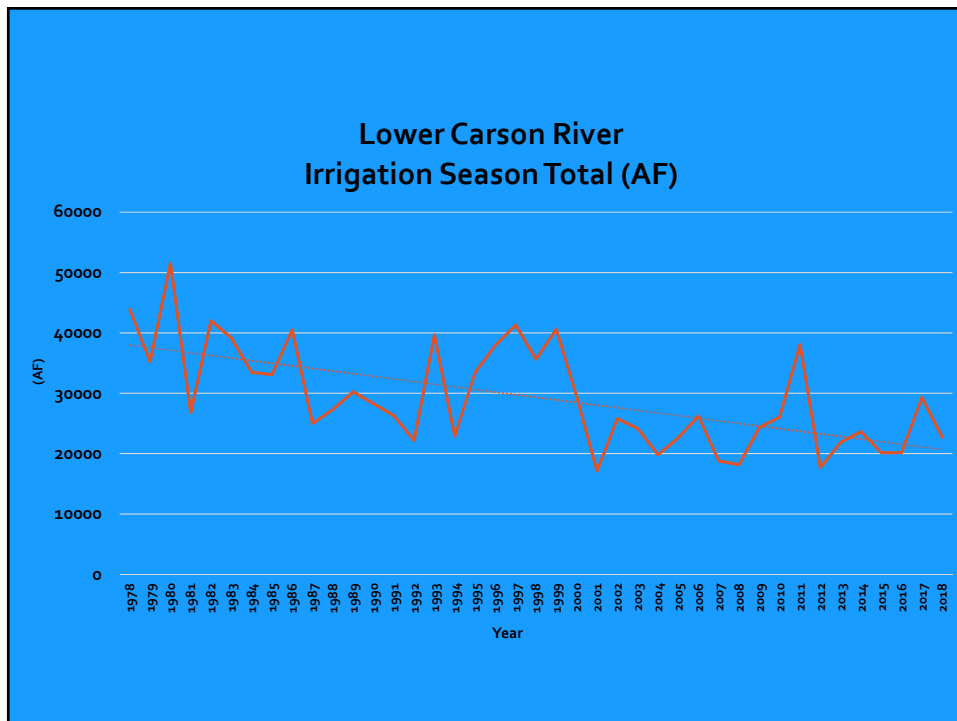
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CARSON RIVER WORKSHOP

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