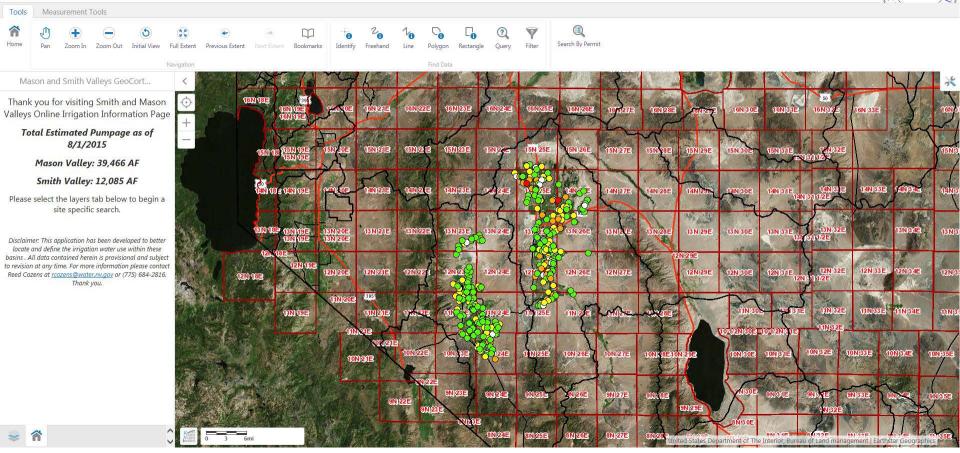
Search...

#### Mason and Smith Valleys Irrigation Wells

rrigation Season 2015



Disclaimer: This application has been developed to better locate and define the irrigation water use within these basins. All data contained herein is provisional and subject to revision at any time. For more information please contact Reed Cozens at <u>rcozens@water.nv.gov</u> or (775) 684-2816.

#### Smith & Mason Interactive Map

- This map was designed to be used in the present, in the future, and with or without a curtailment order.
- Water users are under no obligation to use it; as all legal noticing will continue to be done via statutory requirements.
- A hope exists that this map will be used to further educate and inform water users of their water rights, usage, and terms of their permits.

#### Why was it was developed?

- Water Rights, Totalizing Meters, Meter Readings, and Location Information have often been onerous to track & manage in this area.
- For this reason a database was created linking all of the above based upon a "Site ID".
- Mapping software was then used to display this database info on a web map.

**Goal of the Smith & Mason Interactive Map** For NDWR

- Increase organization and efficiency in water data collection and review
- Quickly identify wells that are approaching the limits of their water rights
- Expedite the sharing of pertinent information to the water users

#### **Goal of this project:**

For the Water Users

- Allow for quick identification of water right locations and pumpage information
- Allow for water users to compare the data collected by NDWR with their own
- Quickly identify wells that are approaching the limits of their water rights

#### What Information is Available?

This online resource contains the following:

- All of the <u>underground irrigation water rights</u> in Smith and Mason Valleys.
  - For each individual site: Permit No(s)., Priority
     Date(s), and Duty (AF)
- Additional Details
  - GPS Coordinates for each site
  - Photo image for each site

#### (cont.) What Information is Available?

This online Resources contains the following:

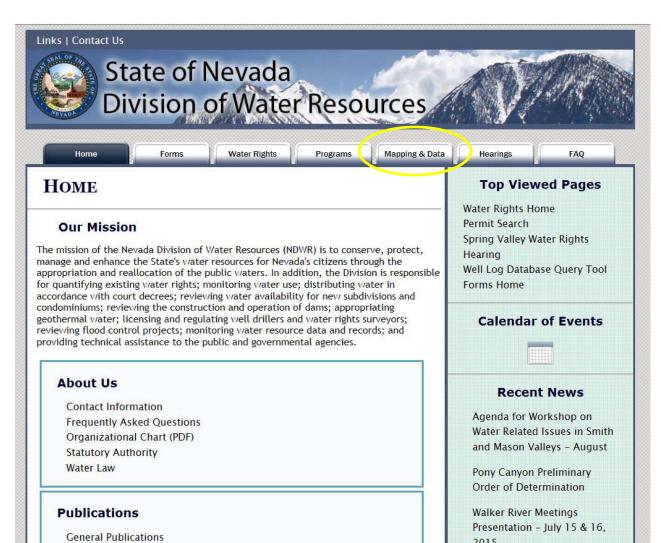
- Totalizing Meter Information for each site:
  - Meter Make
  - Meter Serial No.
  - Totalizing Units
  - Multiplier i.e. x 1000 gallons, x 0.001 Acre-Feet
- Meter Reading Information
  - Date of reading
  - Meter reading converted to acre-foot (if required)
  - Actual Meter Reading as displayed on totalizer

#### (cont.) What Information is Available?

This online Resources contains the following:

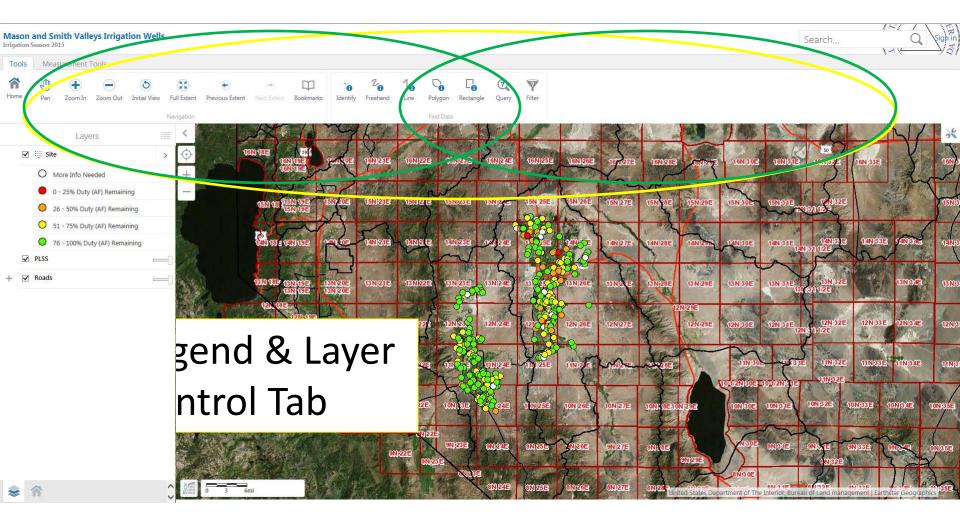
- Water Usage Information
  - The most recent estimate of use in acre-feet
  - Total allowable usage in acre-feet
  - Percent of acre-feet remaining

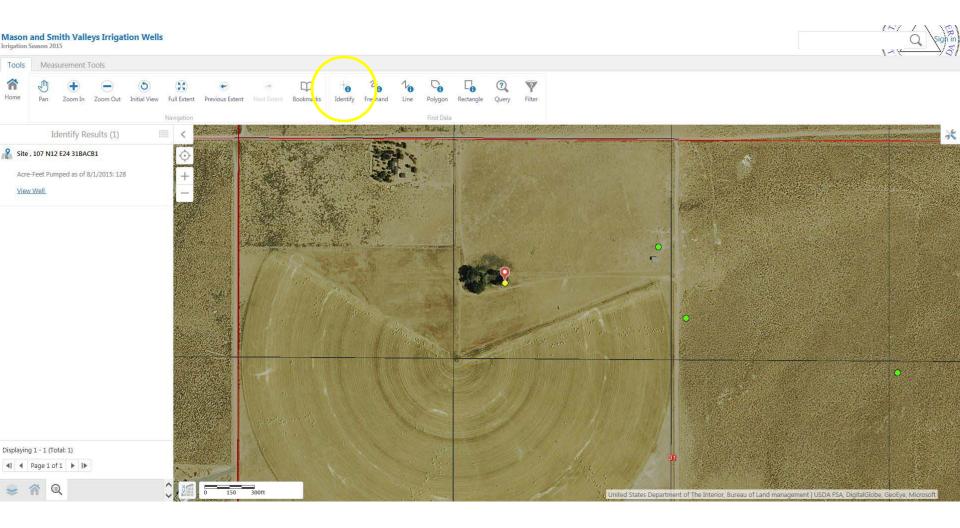
Using your web browser go to the following url: <u>http://water.nv.gov/</u>

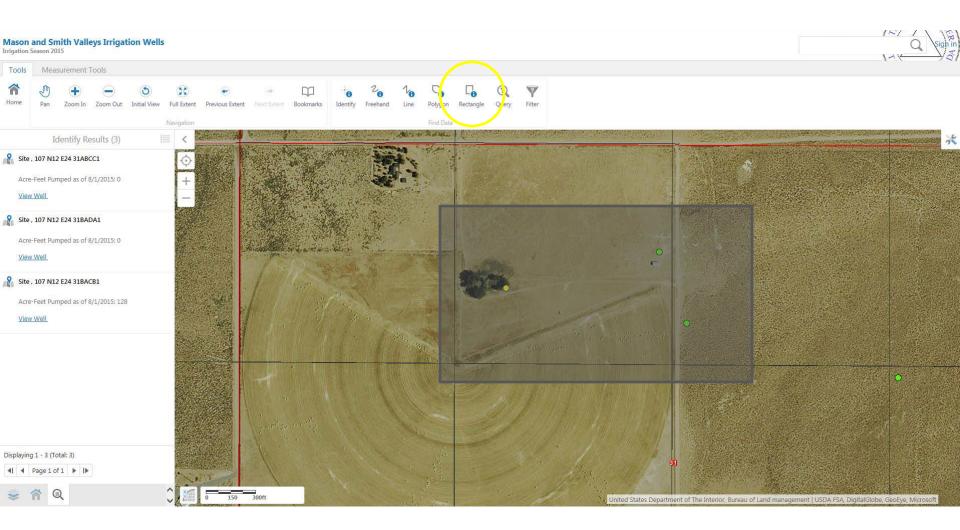


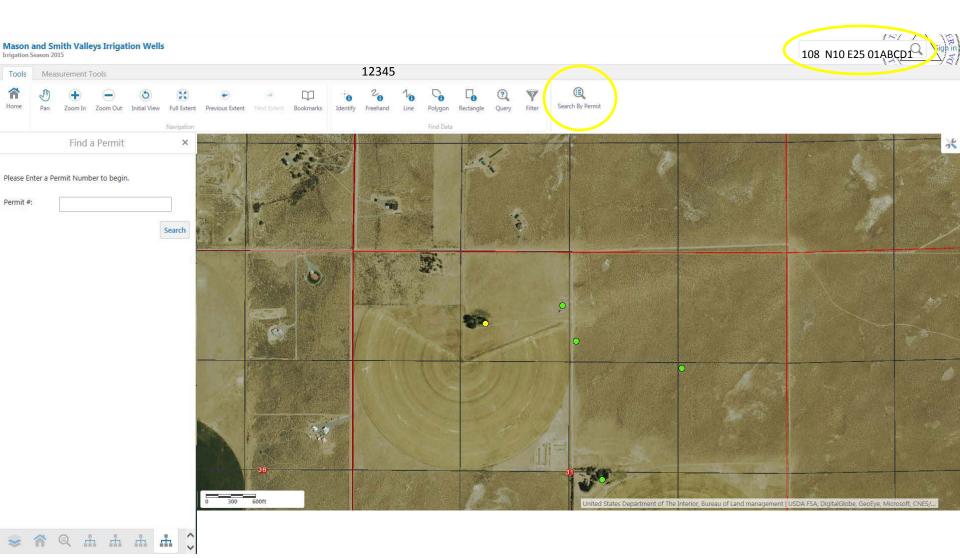
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State of Nevada Division of Water Resour	ces
Home Forms Water Rights Programs Ma	pping & Data Hearings FAQ
MAPPING AND DATA HOME	Top Viewed Pages Water Rights Home Permit Search
Nevada Maps	Spring Valley Water Rights
Basin Boundary Map – PDF 3.6 MB Water Resource Specialist Assignments Interactive Water Resource Maps	Hearing Well Log Database Query Tool Forms Home
Hydrographic Regions GIS Data Downloads Range Maps	Calendar of Events
Search Truckee River Maps Search Carson River Maps Static Water Levels of Nevada - 1974 - PDF 7.7 MB	Recent News
Water Rights Data Permit Search	Agenda for Workshop on Water Related Issues in Smith and Mason Valleys – August
Hydrographic Abstracts (Advanced Search) Monthly Report Titles Database	Pony Canyon Preliminary Order of Determination
Decrees / Adjudication Status Hydrographic Basin Summaries List of State Engineer's Orders	Walker River Meetings Presentation – July 15 & 16, 2015
Search State Engineer's Orders Search State Engineer's Rulings Licensed Water Right Surveyors	Agenda for Workshop on Water Related Issues in Smith and Mason Valleys – July

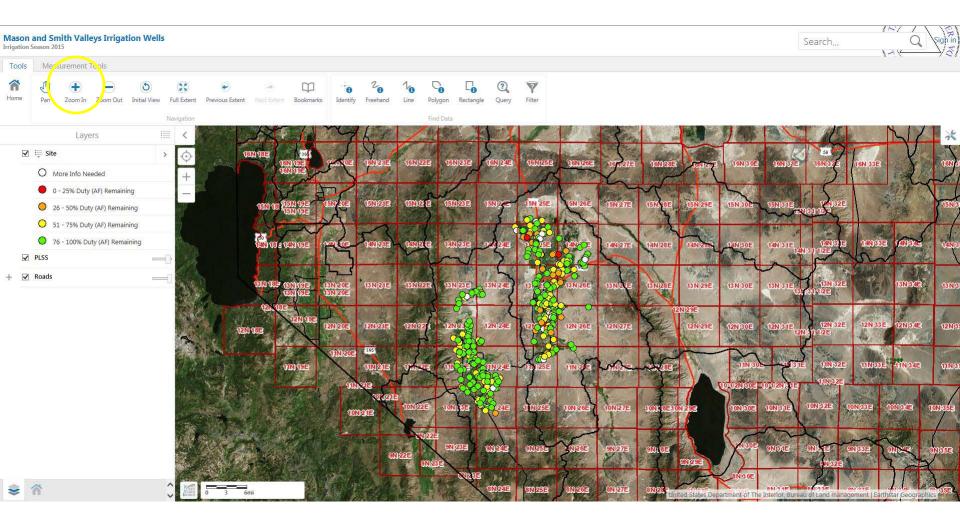
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Adjudication						
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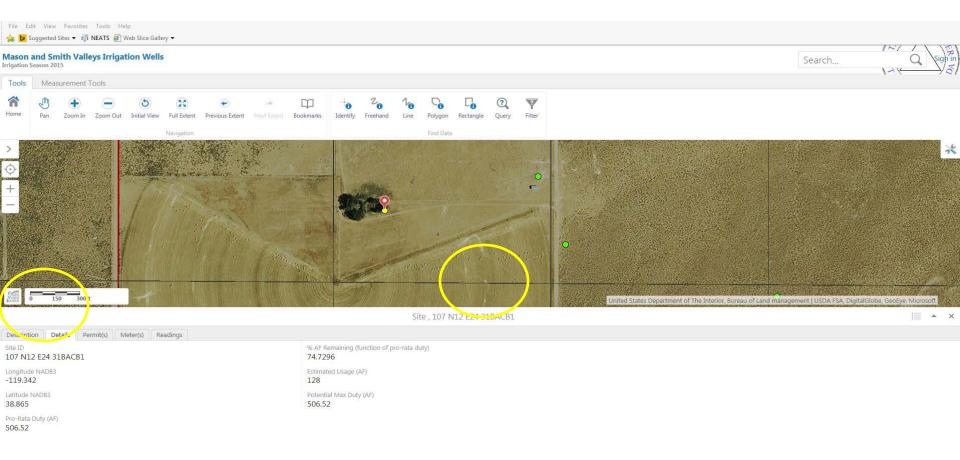








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Description	Details	Permit(s)	Meter(s)	Readings	
Permit No. 🗘	Priority	Date 🗢			
75186	04/16/19	970			



Description	Details	Permit(	s) Meter(s)	Reading	gs
Meter Make 🌻	Meter	Serial 🗘	Multiplier 🗘	Units ≑	OBJECTID 🗢
MCCROMETER	09-025	67-10	1000	gallons	190



Description	Detai	ls Permit(s)	Meter(s) Readings	
Date of Readi	ng 🌲	Reading in AF	🗘 🛛 Totalizer Display 🗢	MeterOBJECTID
03/01/2015		93.19	30366000	187
05/19/2015		98.93	32236400	187
06/16/2015		103.92	33862400	187
07/14/2015		108.6	35388600	187

#### Web Map Overview

- Where to go: <u>http://webgis.water.nv.gov/</u>
- Legend
  - Colored dots represent the most recent usage as a percent remaining; based upon a pro-rata duty.
- Navigation
- Additional Site Details
- Assistance: Reed Cozens (775) 684-2816 or rcozens@water.nv.gov

#### PRO-RATA DUTY VS. POTENTIAL MAXIMUM DUTY a.k.a. Permitted Duty Balance

- The following three slides show the same irrigated place of use (w/o curtailment), but with three different water right scenarios.
- These scenarios effect how and where the water may be diverted & used.
- And why and when there is a need for variable answer to "How much water can I pump from this well?"

If you have one water right and one Place of Use (irrigated acreage): The Pro-Rata Duty and Potential Maximum Duty are the same.



Water Right : 100 Acres Maximum: 400 AF Pro-Rata: 400 AF

PRO-RATA DUTY VS. POTENTIAL MAXIMUM DUTY

# If you have multiple water rights, two Places of Use (irrigated acreage), AND THE WATER RIGHTS ARE **ADDITIVE**:

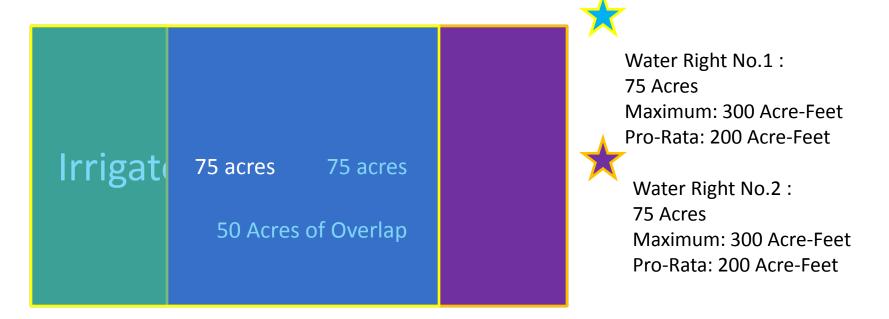
The Pro-Rata Duty and Potential Maximum Duty are the same.



PRO-RATA DUTY VS. POTENTIAL MAXIMUM DUTY

# If you have multiple water rights, two Places of Use (irrigated acreage), AND THE WATER RIGHTS ARE **NON-ADDITIVE**:

The Pro-Rata Duty and Potential Maximum Duty are not the same.



#### **Curtailment and Water Rights**

- The following slides show the same irrigated place of use (w/ curtailment), but with three different water right scenarios.
- These scenarios effect how and where the water may be diverted & used.

If you have one water right and one Place of Use (irrigated acreage): **Example:** The curtailment priority cut-off date is 4/1/1974.

Vater **Irrigated Acreage: 100 acres** Priorit

Water Right : 100 Acres 400 Acre-Feet Priority 10/9/1972

If you have one water right and one Place of Use (irrigated acreage): **Example:** The curtailment priority cut-off date is 3/1/1970



Water Right : 400 Acre-Feet Priority 10/9/1972

PRO-RATA DUTY VS. POTENTIAL MAXIMUM DUTY

If you have multiple water rights, one Place of Use (irrigated acreage), AND THE WATER RIGHTS ARE **ADDITIVE**:

**Example:** The curtailment priority cut-off date is 4/1/1974



**Total Limit : 100 Acre-Feet** 

PRO-RATA DUTY VS. POTENTIAL MAXIMUM DUTY

If you have multiple water rights, one Place of Use (irrigated acreage), AND THE WATER RIGHTS ARE **NON-ADDITIVE**:

**Example:** The curtailment priority cut-off date is 4/1/1974



Water Right No.1 : Maximum: 300 Acre-Feet Priority Date 10/9/1972



Water Right No.2 : Maximum: 300 Acre-Feet Priority Date 7/27/1977

- Water Rights have been applied for in different ways.
- Understanding these differences is necessary in evaluating the amount of water available to divert.
- The symbology i.e. colored dots, used in the interactive web map, may or may not be, the limit of water available to the user.
- Additional research will always be performed to ensure the water users have the full benefit of their right.