

Inyo County Water Commission

OCTOBER 19, 2023
REGULAR MEETING



2023 Conditions

- ▶ Precipitation
- ▶ Groundwater levels
- ▶ LADWP pumping to-date
- ▶ ON/OFF status
- ▶ Vegetation conditions

Owens River at Calvert Slough, March 2023

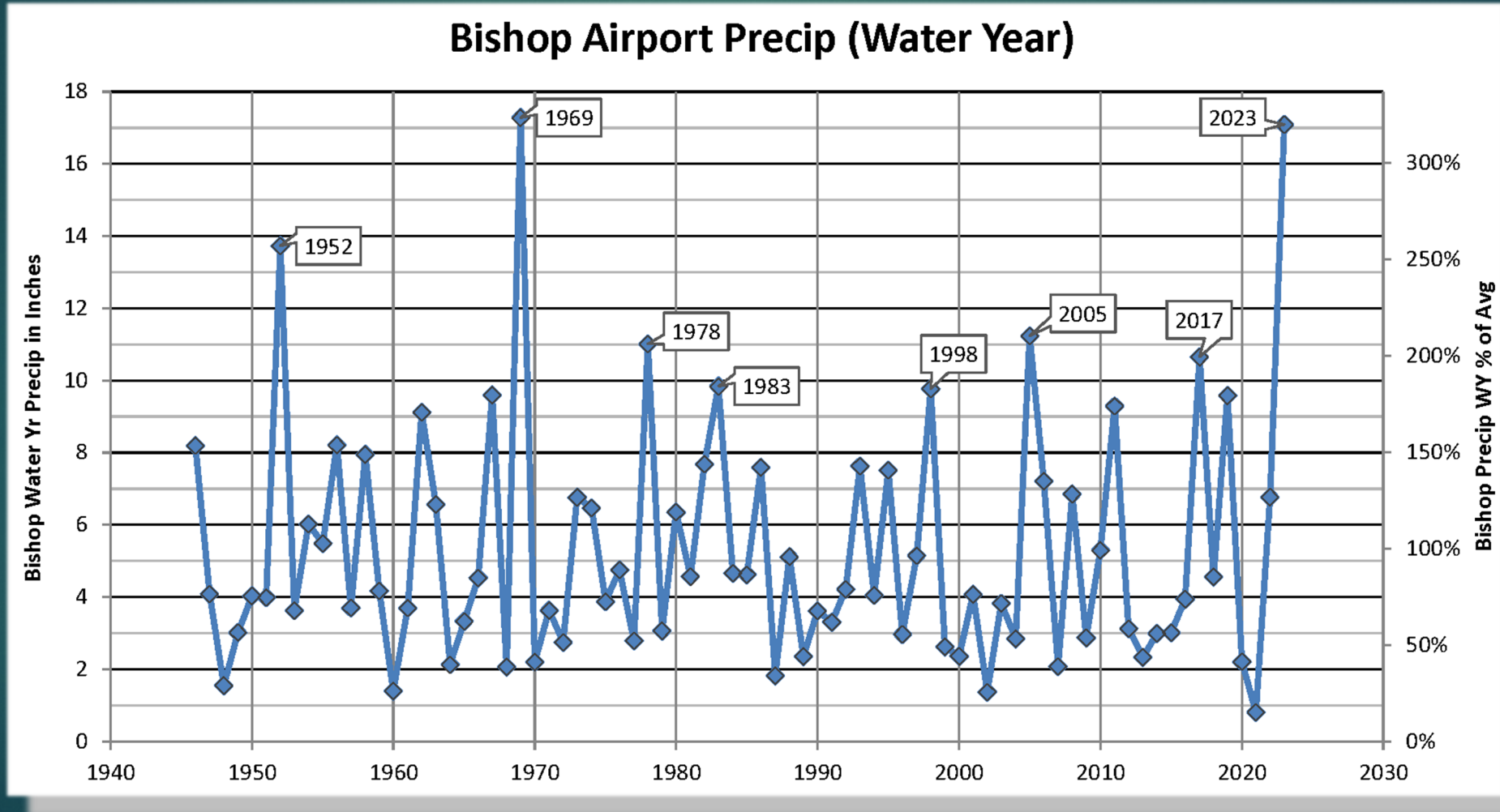


Precipitation

(WY Oct 1 – Sept 30)



- ▶ 1969 Precip: 17.28 Inches
- ▶ 2023 Precip: 17.09 inches

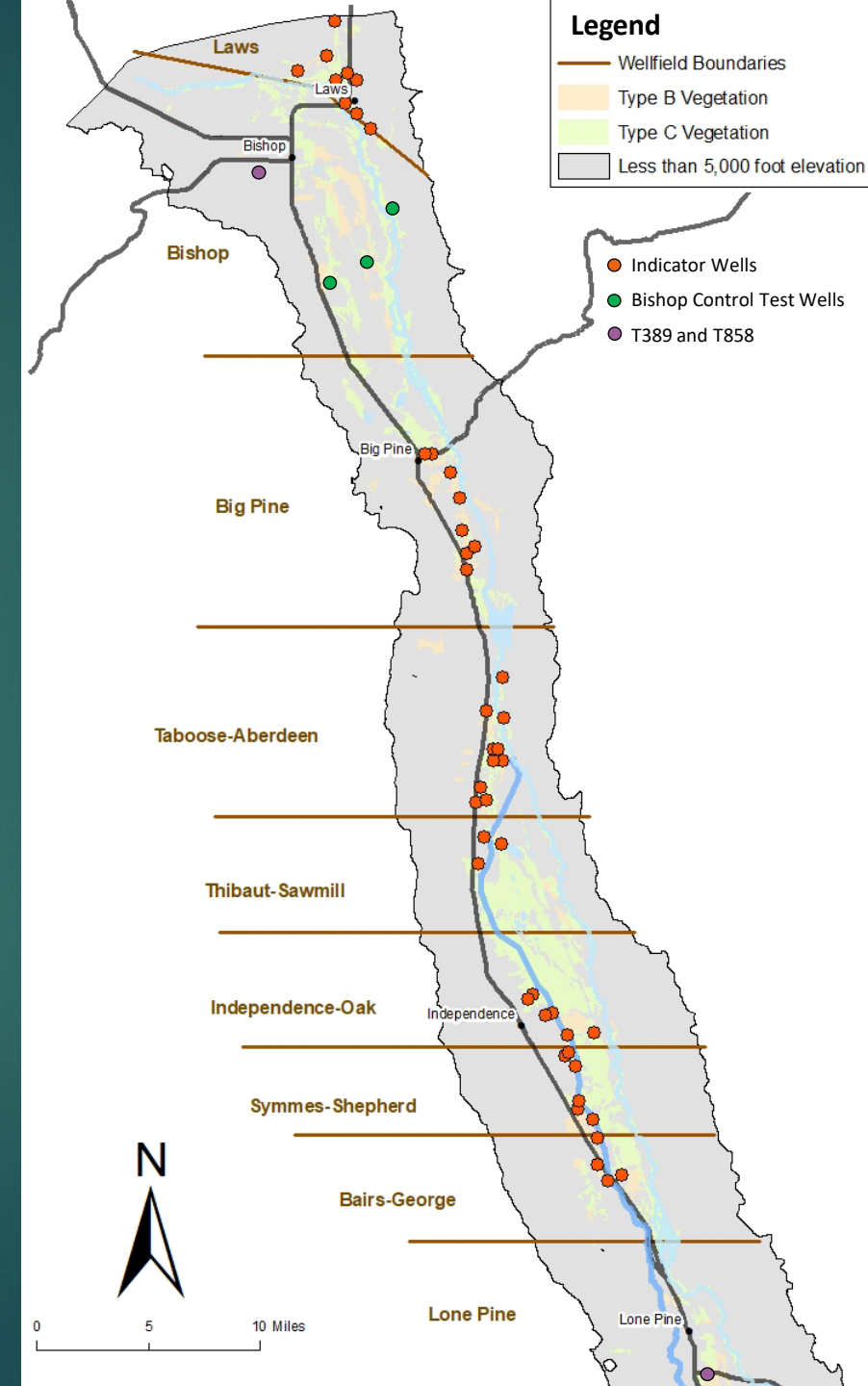


Groundwater levels

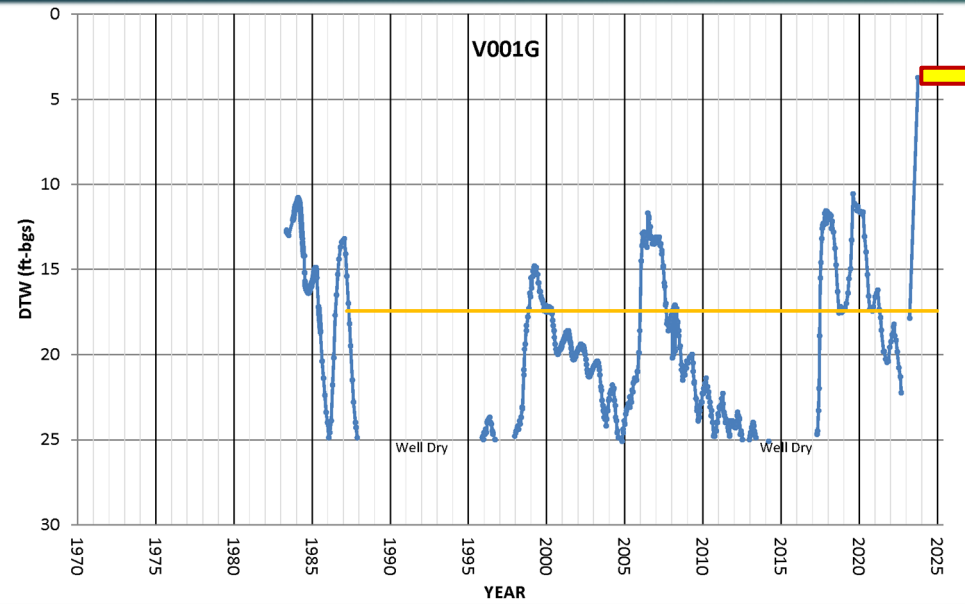
Spring and Fall 2023 at Indicator Wells

Wellfield	Avg. Spring 2022 to Spring 2023 change	Avg. Spring 2023 to Fall 2023 change
	ft	ft
Laws	+4.6	+7.0
Big Pine	+1.0	+5.0
Taboose-Aberdeen	+0.6	+3.5
Thibaut-Sawmill	+3.1	-0.4
Independence-Oak	+2.2	+0.5
Symmes-Shepherd	+0.8	+0.4
Bairs-George	+1.7	+3.1
Average of all Indicator Wells	+2.0	+3.3

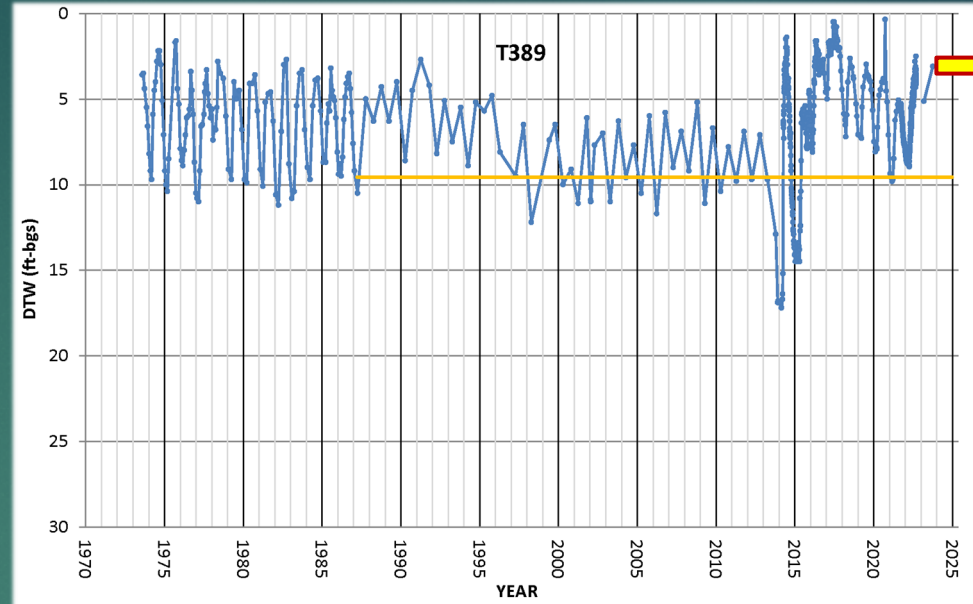
- ▶ 12 of 46 Indicator Wells declined from April 2023 levels
- ▶ Bishop Permanent Monitoring Control Site Test Wells and T389 increased an Avg. of 1.2 ft from Spring 2023 to Fall 2023



Laws

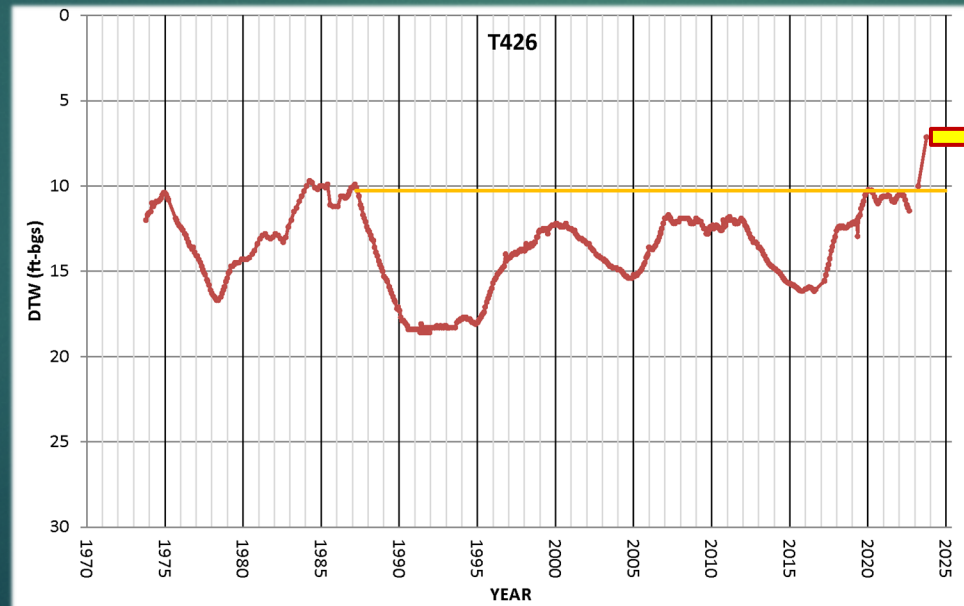


Bishop

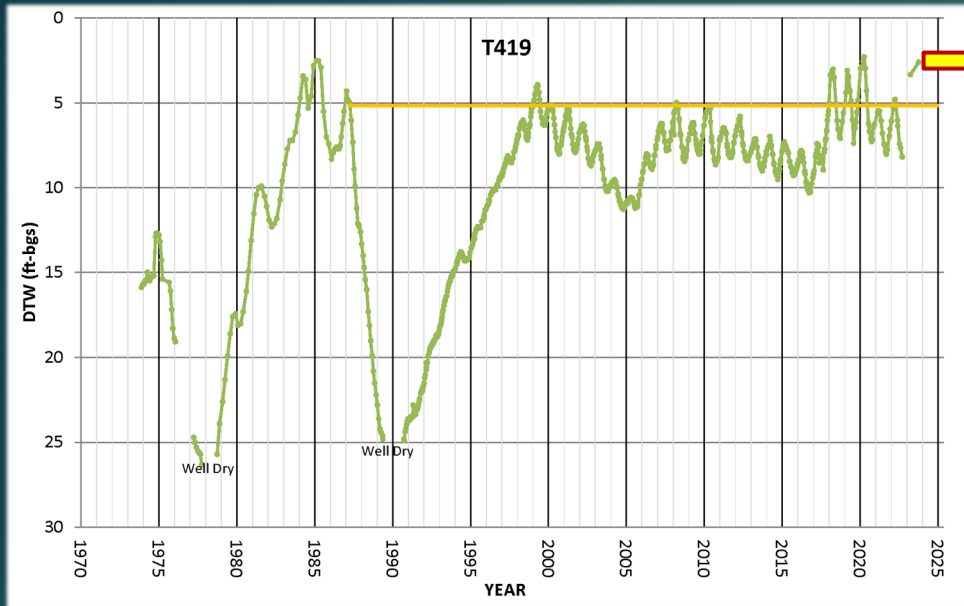


Horizontal line
is Baseline DTW

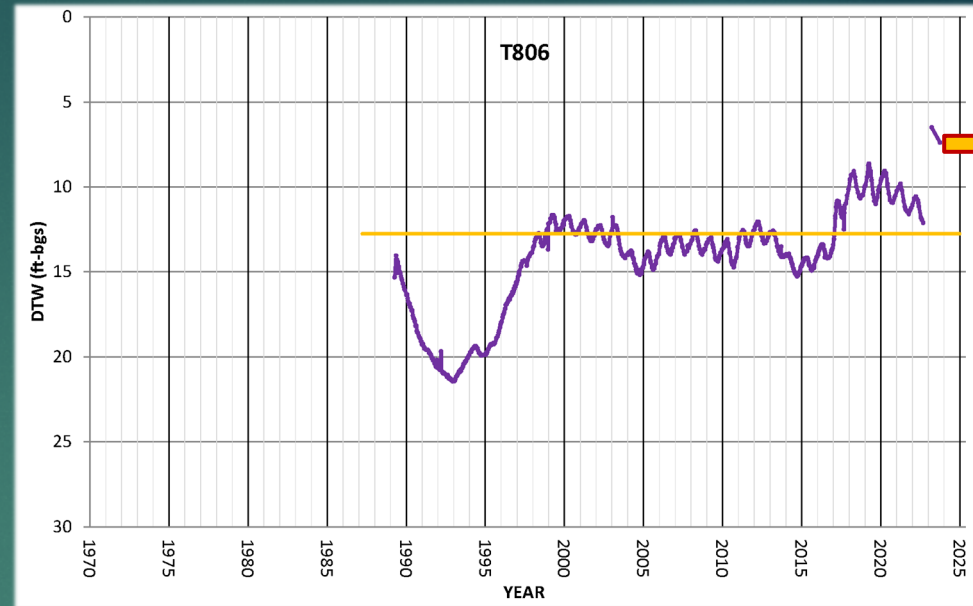
Big Pine



Taboose-Aberdeen

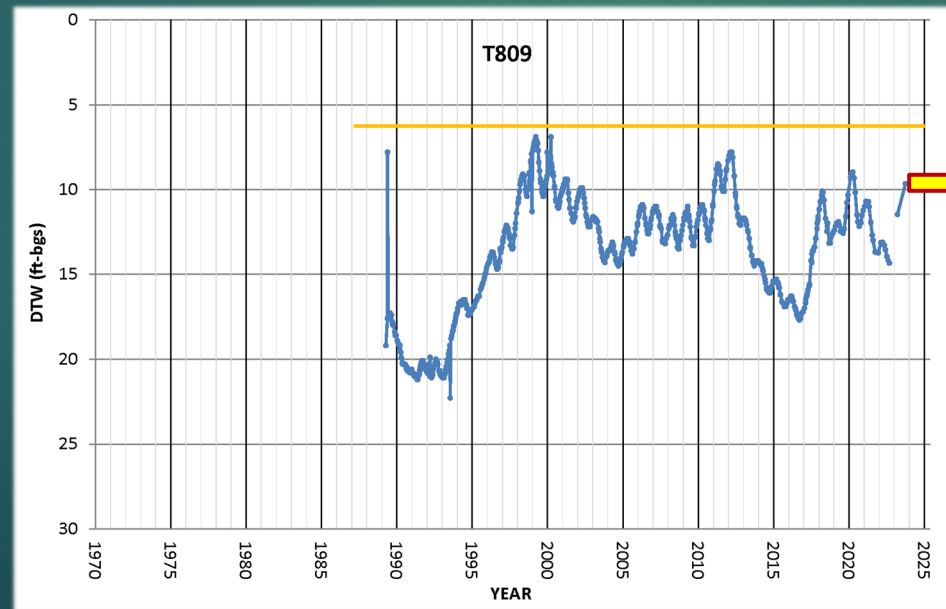


Thibaut-Sawmill

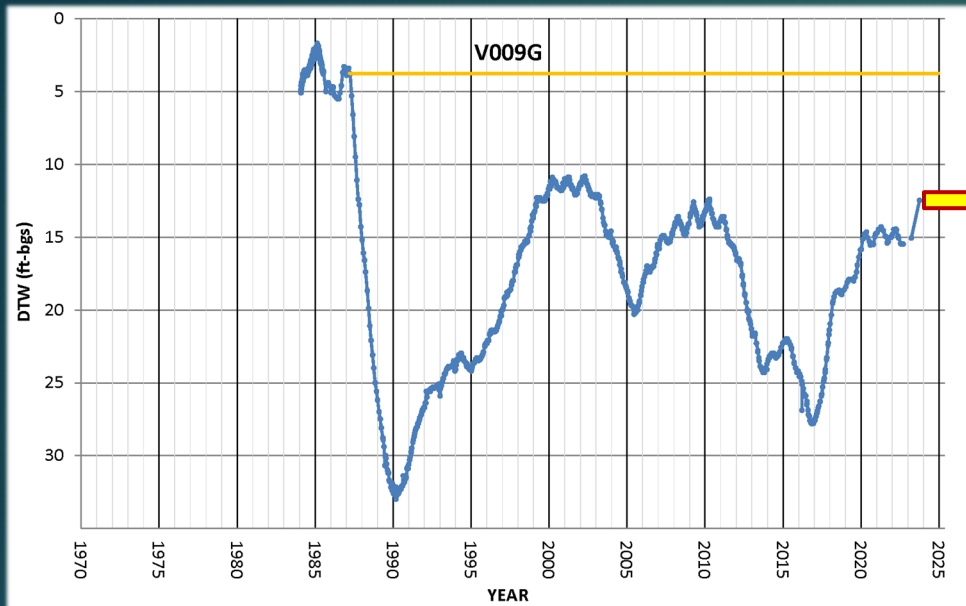


Horizontal line
is Baseline DTW

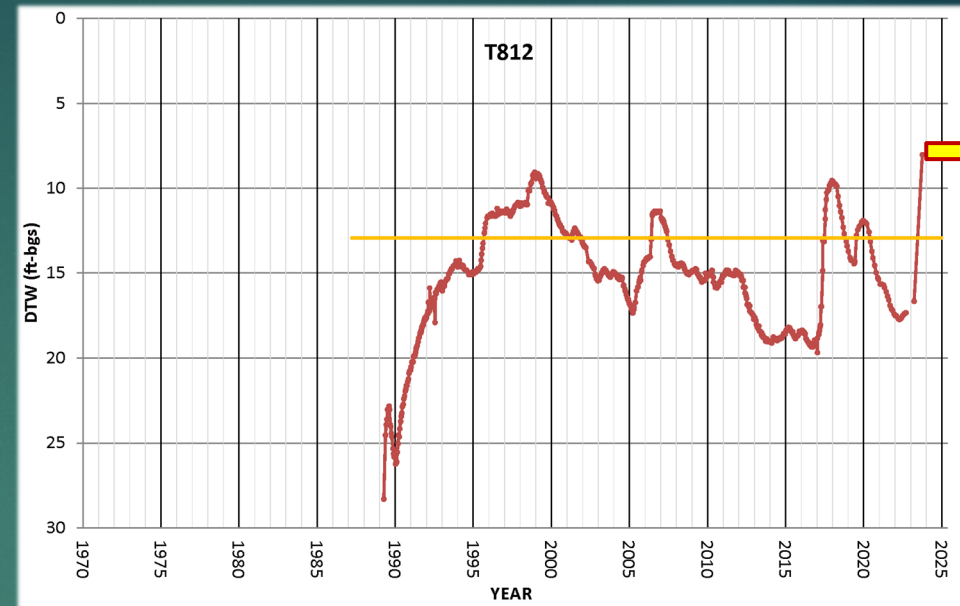
Independence-Oak



Symmies-Shepherd

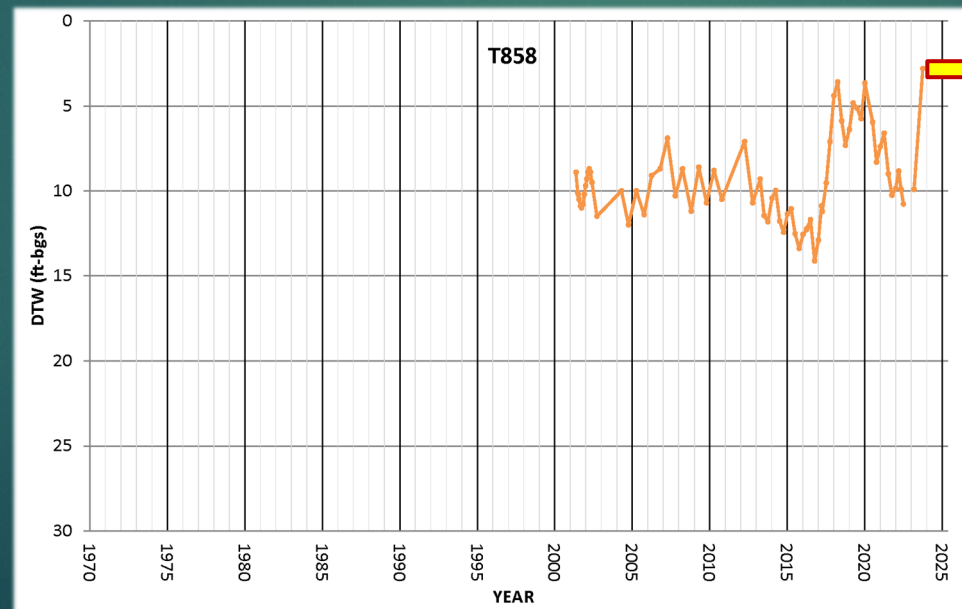


Bairs-George



Horizontal line
is Baseline DTW

Lone Pine



LADWP pumping to-date



2023-2024 LADWP Operation Plan

- ▶ Pumping: 40,130 AF (LADWP Proposed Low)
- ▶ Pumping: 51,470 AF (LADWP Proposed High)

2023/2024 RUNOFF YEAR PUMPING TOTALS (ACRE FEET)

	BISHOP	LAWS	BIG PINE	TABOOSE- ABERDEEN	THIBAUT- SAWMILL	INDEPEN.- OAK	SYMMES- SHEPHERD	BAIRS- GEORGES	LONE PINE	TOTAL
APR	311	108	1,281	607	618	724	109	0	116	3,874
MAY	316	323	1,752	520	648	787	163	0	122	4,631
JUN	149	312	962	500	619	511	161	0	124	3,338
JUL	0	335	1,283	530	711	514	3	0	154	3,530
AUG	0	307	1,390	527	574	638	31	0	123	3,590
SEP	0	323	1,218	502	624	717	145	0	91	3,620
OCT										0
NOV										0
DEC										0
JAN										0
FEB										0
MAR										0
TOTAL	776	1,708	7,886	3,186	3,794	3,891	612	0	730	22,583

ON/OFF status



Site	July 1, 2023 On/Off Status	October 2023 Vegetation Water Requirement	October 2023 Required Soil AWC For Turn-On	October 2023 Actual Soil AWC	Soil AWC +50% Annual Precip.	October 1, 2023 On/Off Status
LW 1	ON	12.3	NA	139.7	147.6	ON
LW 2	ON	4.3	NA	58.7	66.6	ON
LW 3	ON	16.1	NA	70.9	78.8	ON
BP 1	ON	25.4	NA	55.5	63.4	ON
BP 2	OFF	13.7	28.4	8.2	NA	OFF (7/98)
BP 3	ON	14.1	NA	119.2	126.8	ON
BP 4	ON	10.3	NA	77.0	85.2	ON
TA 3	ON	19.2	NA	18.7	26.0	ON
TA 4	ON	12.9	NA	24.3	31.6	ON
TA 5	ON	8.4	NA	26.3	34.5	ON
TA 6	ON	21.9	NA	60.8	68.1	ON
TS 1	ON	26.6	NA	47.2	54.5	ON
TS 2	ON	13.1	NA	25.3	32.6	ON
TS 3	ON	12.8	NA	32.7	40	ON
TS 4	ON	38.5	NA	43.4	50.7	ON
IO 1	OFF	35.6	42.2	29.6	NA	OFF (10/98)
IO 2	ON	6.0	NA	5.4	11.9	ON
SS 1	ON	15.4	NA	45.5	52.0	ON
SS 2	OFF	4.7	25.6	6.1	NA	OFF (7/11)
SS 3	ON	18.7	NA	34.5	41.0	ON
SS 4	ON	9.2	NA	16.0	22.6	ON
BG 2	ON	16.8	NA	49.7	56.3	ON

October 1, 2023
On Off table

Vegetation conditions



► 2023

- Inyo/LA Vegetation Monitoring
- ~1750 transects, ~140 parcels summarized and compared to baseline Agreement goals.
- Green Book Box I.C.1.a.ii
Transects for monitoring vegetation response to pumping

Line point intercept transects - photo database

Find address or place

Select transects on the map

Inter-annual photo comparisons are not available for all transects, but keep advancing the table to find available photo comparisons.

Advance through the transect photos using <> arrows on the top.

1304 of 1973

LAW052

PCL	LAW052
X_Coord	380343
Y_Coord	4143607
TRANSECT	2
BEARING	52
IDENT	LAW052_02_052

Last edited by znelson24 on 6/3/2020, 2:30 PM.

7/8/2021, 12:24 PM

EditDate 7/8/2021, 12:24 PM

Editor icwater4

7/19/2023, 10:36 AM

EditDate 7/19/2023, 10:36 AM

Editor icwater4

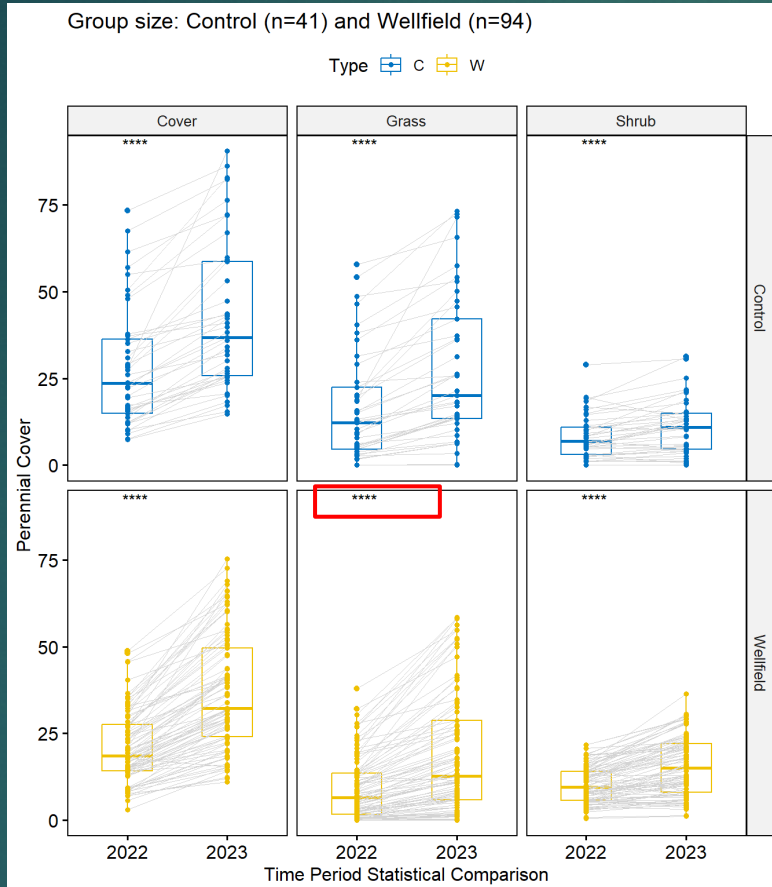
Selected features: 1

Photos of transects between years
Publicly accessible at: <https://arcg.is/0f0uX5>

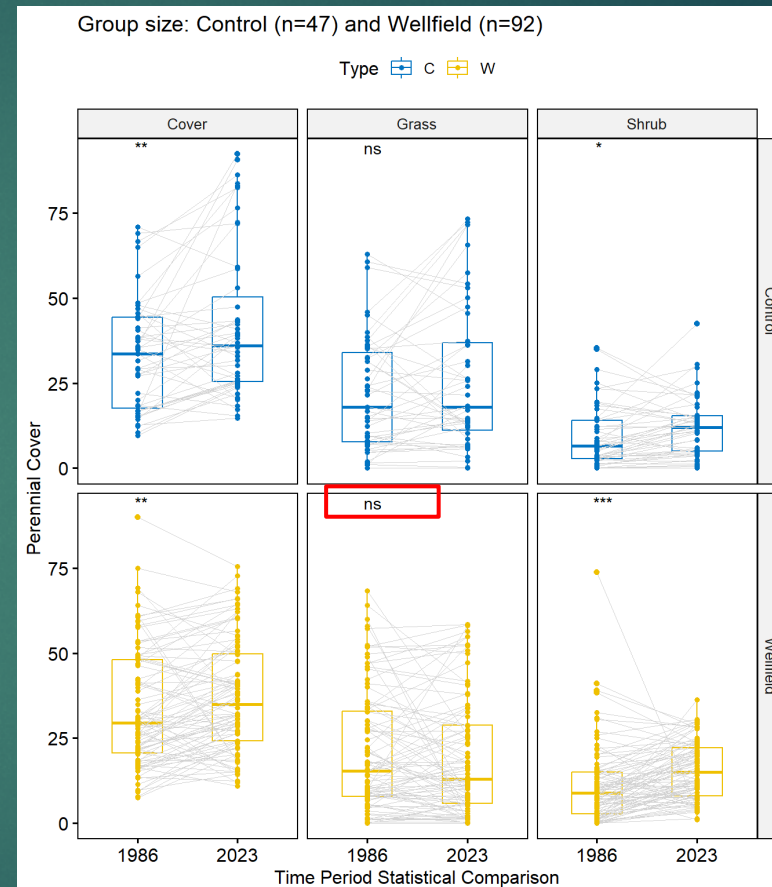
Vegetation conditions



► 2023



2022 to 2023
Significant increases in all
categories

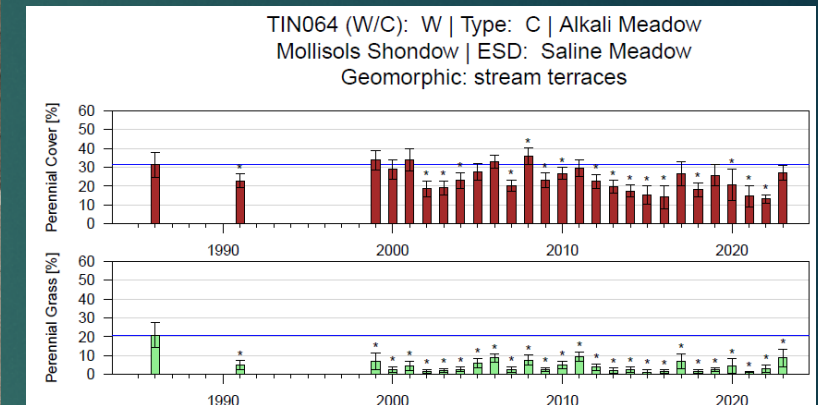
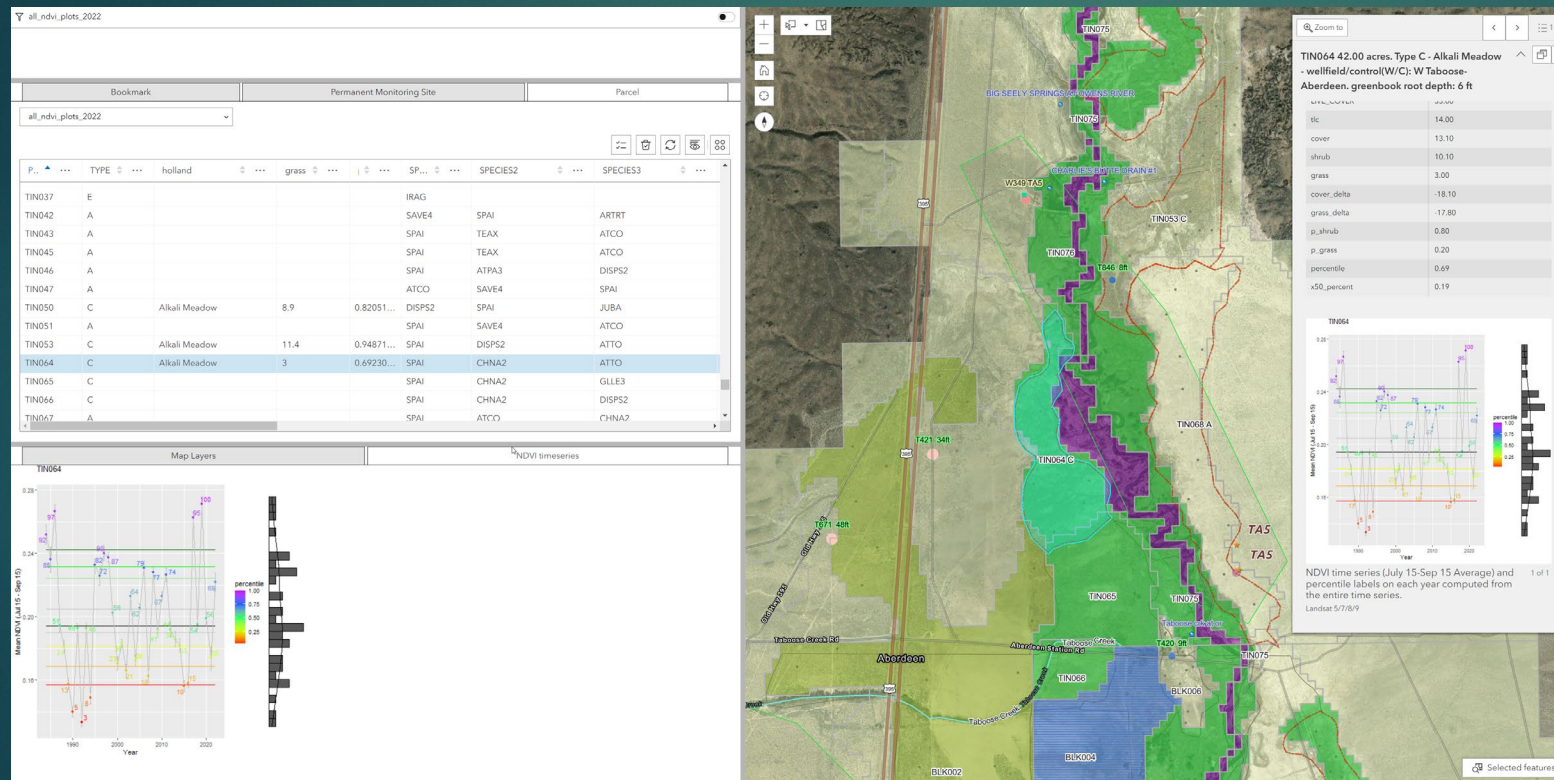


Baseline to 2023
Grass cover at baseline
Total cover above baseline

Vegetation conditions



A data dashboard is being developed that brings together field data, remote sensing and groundwater elevation data in a web GIS application.



<https://www.inyowater.org/wp-content/uploads/2023/10/ts5stack2023.pdf>

Individual parcel summaries and statistics will be fully updated Nov 2023.

2023 NDVI annual percentile, field data and depth to water hydrographs will be updated in Nov 2023. Publicly accessible at: <https://arcgis/0TvSrD>