



AGENDA

IDAHO WATER RESOURCE BOARD

Water Supply Management Committee Meeting No. 2-25
October 28, 2025

Brad Little
Governor

1:00 PM (MT) / Noon (PT)

Jeff Raybould
Chairman
St. Anthony
At Large

Water Center
Conference Rooms 602 B, C, & D
322 E. Front St.
BOISE

Jo Ann Cole-Hansen
Vice Chair
Lewiston
At Large

Livestream available at <https://www.youtube.com/@iwrbb>

Dean Stevenson
Secretary
Paul
District 3

1. Introductions and Attendance
2. IWRB Recharge Water Right Non-Diversion Agreement *
3. IWRB Recharge Capacity Analysis
4. Idaho Power Co. Recharge Capacity Analysis
5. Other Items
6. Adjourn

Dale Van Stone
Hope
District 1

Albert Barker
Boise
District 2

Committee Members: Chair Jeff Raybould, Dean Stevenson, Jo Ann Cole-Hansen, and Brian Olmstead.

Brian Olmstead
Twin Falls
At Large

Marcus Gibbs
Grace
District 4

Patrick McMahon
Sun Valley
At Large

* Action Item: A vote regarding this item may be made at this meeting. Identifying an item as an action item on the agenda does not require a vote to be taken on the item.

Americans with Disabilities

The meeting will be held in person and online. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email jennifer.strange@idwr.idaho.gov or by phone at (208) 287-4800.

Memorandum



To: Idaho Water Resource Board: Water Supply Management Committee

From: Planning & Projects Bureau Staff

Date: October 24, 2025

Re: IWRB Recharge Water Right Non-Diversion Agreement

ACTION: Recommendation may be requested

A request to consider an agreement not to divert will be discussed by staff and legal representation.

Is 350,000 ac-ft of Recharge Achievable under Proposed Conditions

Scenario Analysis with and without an Agreement with Idaho
Power Company to Limit Recharge Diversions

David Hoekema, Hydrologist, IDWR
10/28/2025

Introduction

The Question:

Can the IWRB reach a 15-year average annual recharge target of 350,000 ac-ft given an agreement with Idaho Power Company not to not divert some of flow available at Milner Dam?

Why?

The ESPA started declining around 1950 and an agreement in 2014 between groundwater pumpers and surface water users changed the trajectory of the ESPA, which appears to have stabilized. A 2024 agreement proposes 350,000 ac-ft as the IWRB recharge goal.

History of the ESPA

1905 Milner Dam

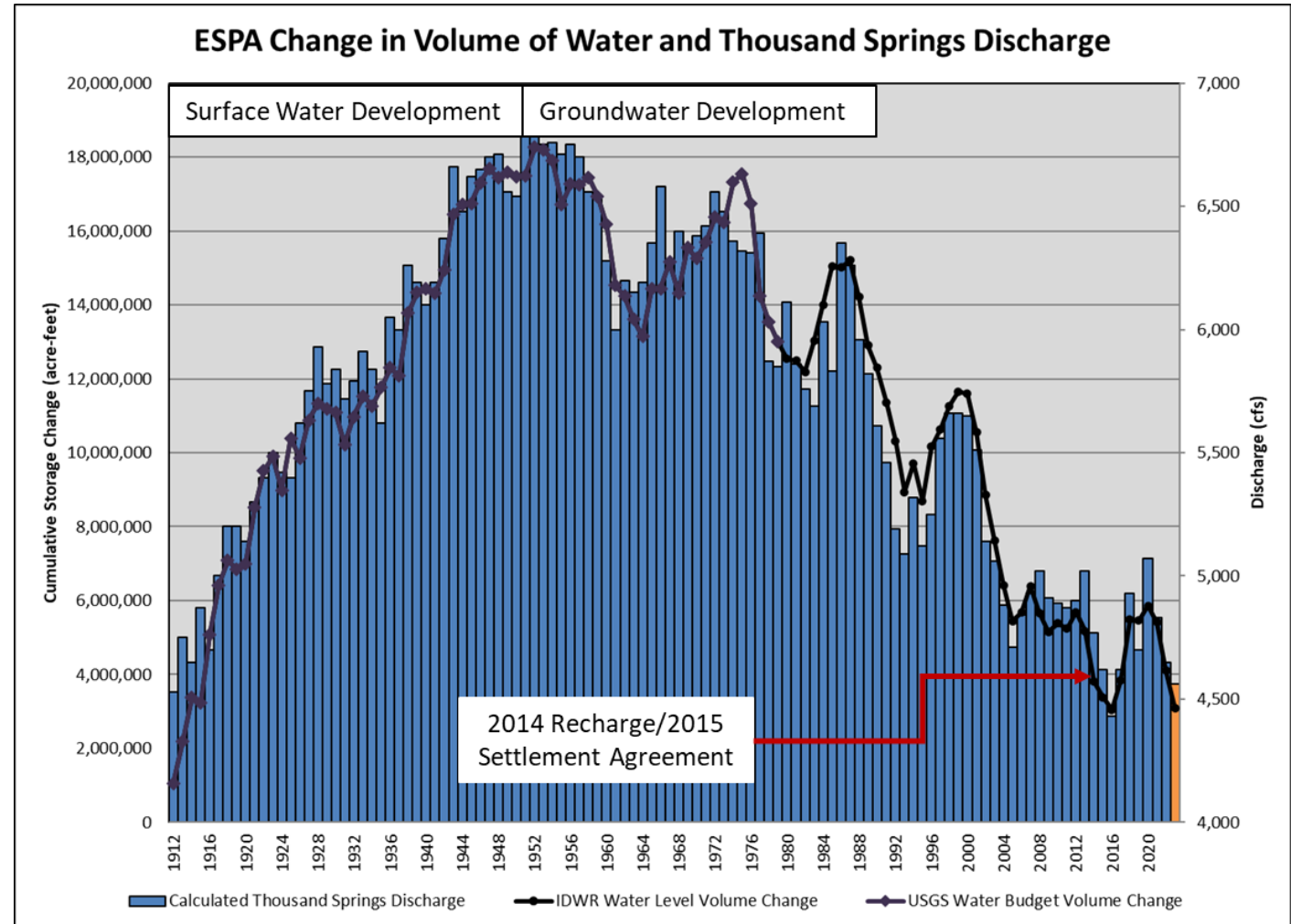
1906 Minidoka Dam

1940 Groundwater
Development begins

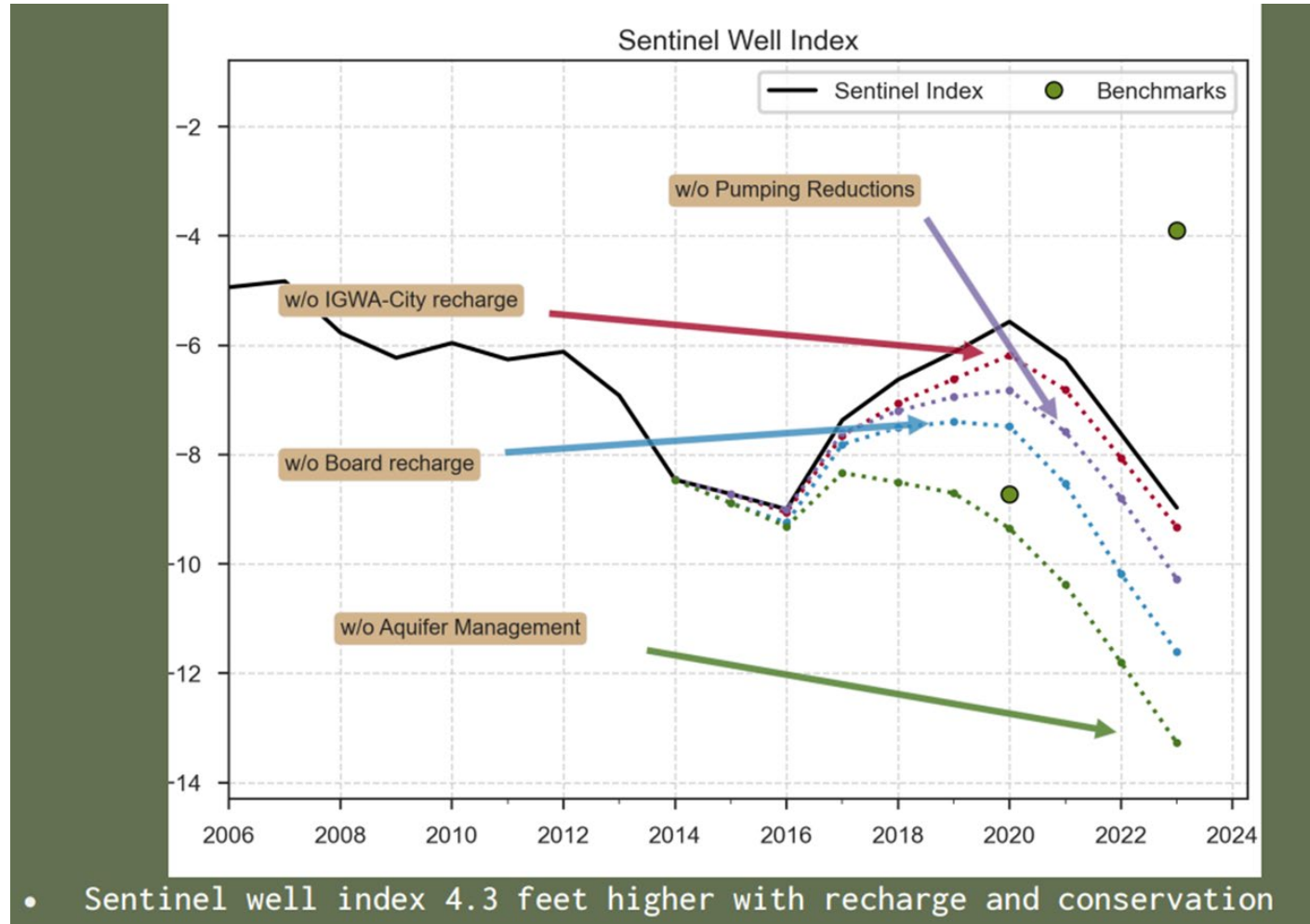
1992 Moratorium on new
Groundwater Development

2014 Aquifer Recharge
Program begins in earnest
-goal 250,000 ac-ft

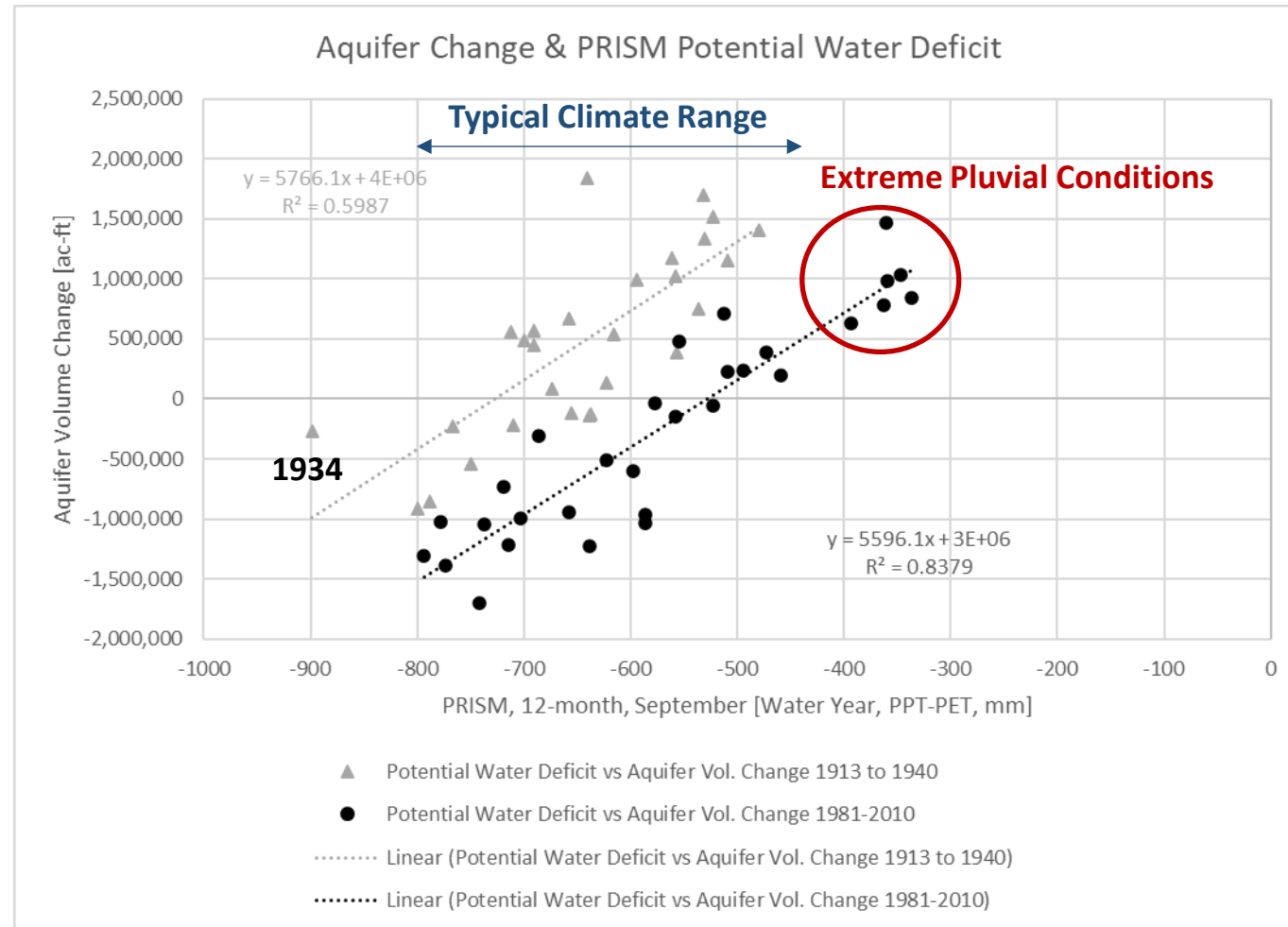
2015 Settlement
Agreement
-Groundwater cutbacks
-goal 240,000 ac-ft



We have changed the trajectory of the ESPA again!

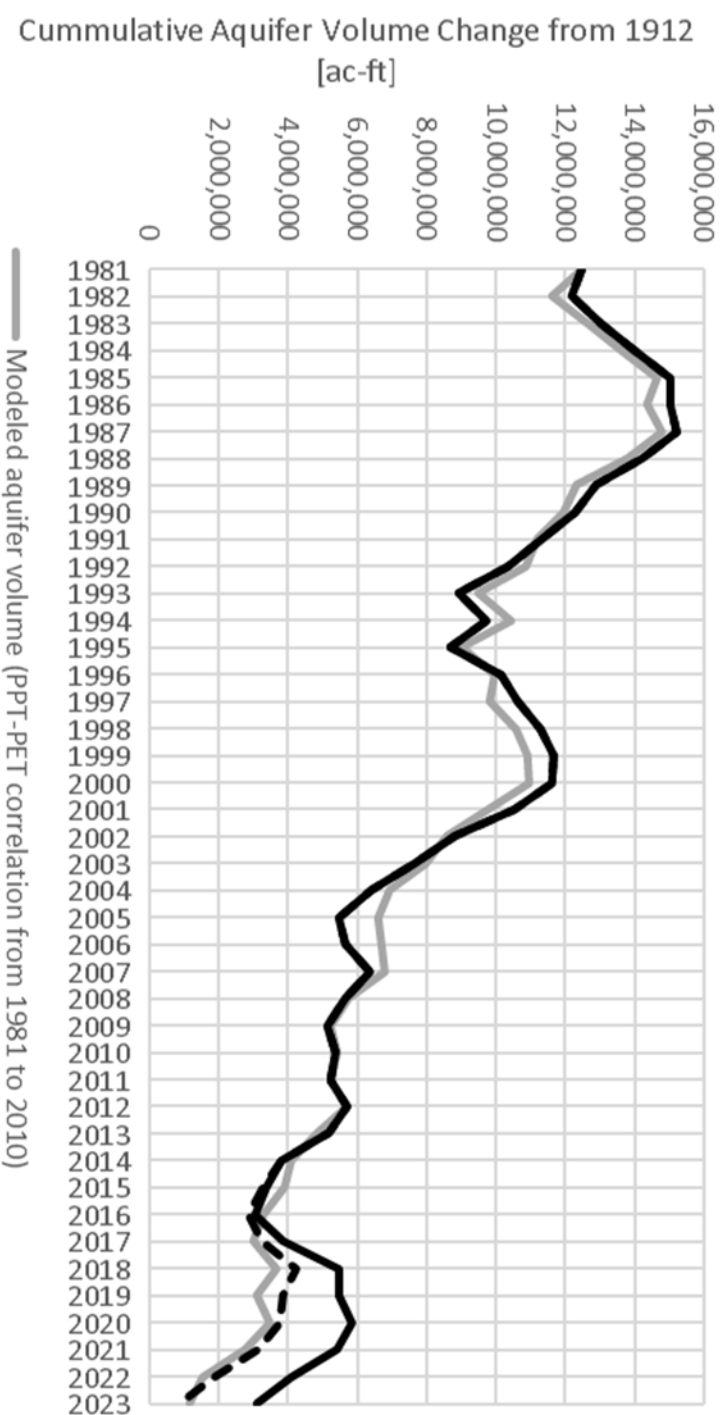


How does climate impact the ESPA?

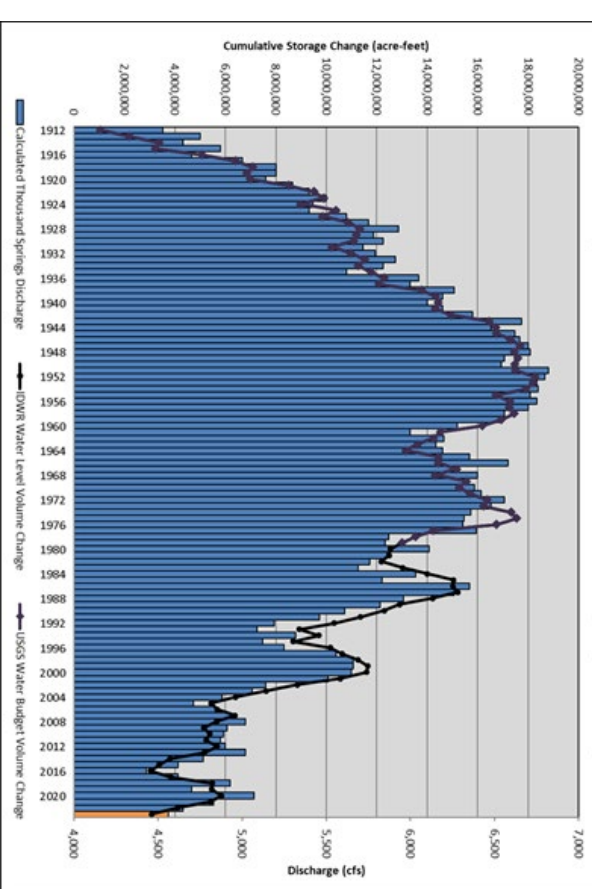


Climate analysis confirms ESPAM Results

Measured ESPA Aquifer Volume vs Modeled Volume



ESPA Change in Volume of Water and Thousand Springs Discharge



Constraints on the Analysis

Assumptions:

1. Analysis uses of historic climate & management conditions
2. Analysis uses current recharge program capacity
3. Proposed agreement not to divert is based on the water year
4. Rolling average will start in 2016 (not part of analysis)
5. IWRB Upper Valley recharge capacity was reduced in 2024, due to increased private recharge.

Proposed Agreement Conditions

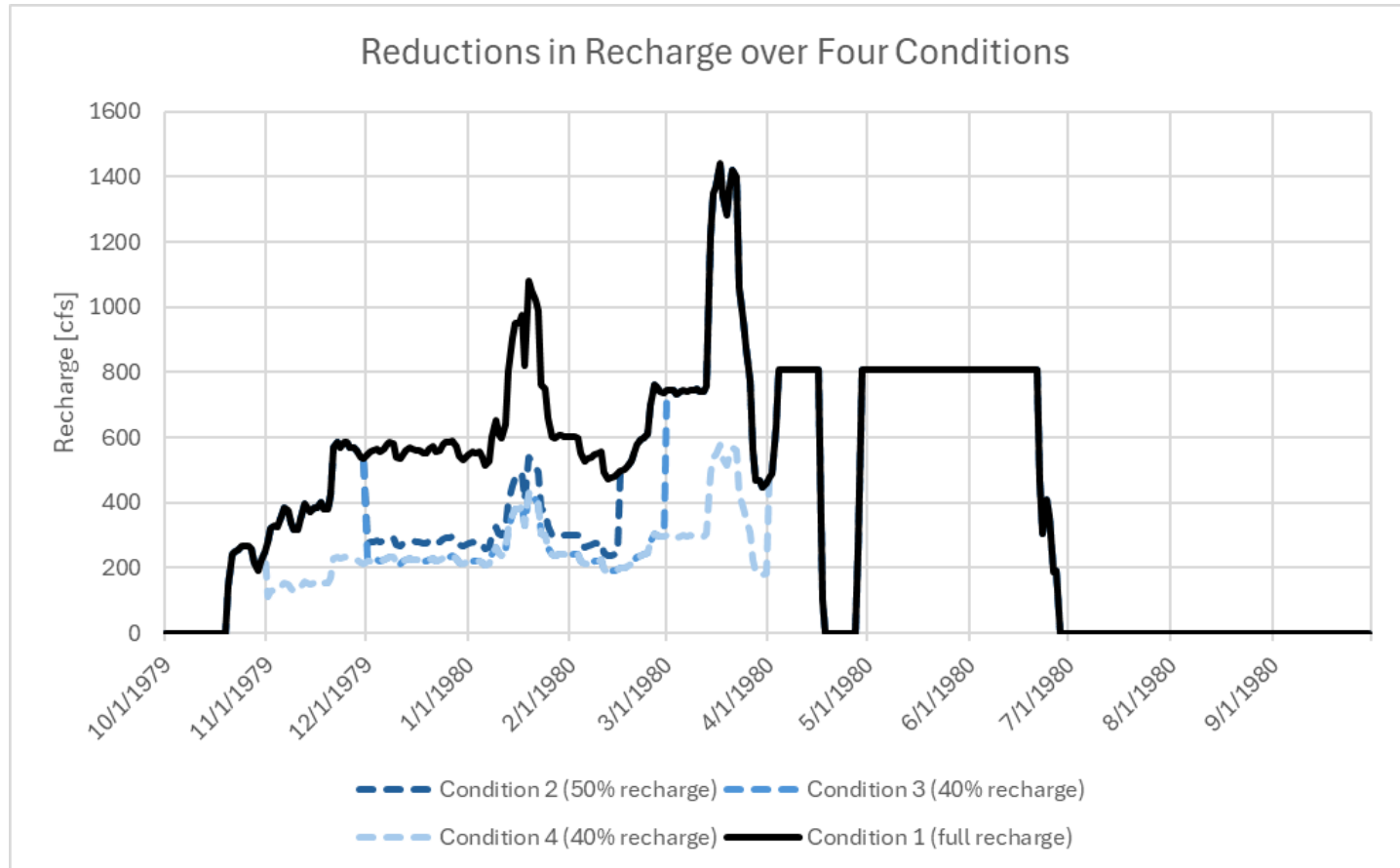
Flow that would be diverted given the 15-year rolling average:

1. Below 250,000 ac-ft, all flow is diverted to recharge
2. Above 250,000 ac-ft and below 350,000 ac-ft, then recharge is limited to 50% from Dec. 1 to Feb. 15
3. Above 350,000 ac-ft and below 355,000 ac-ft, recharge is limited to 40% from Dec. 1 to Mar. 1
4. Above 355,000 ac-ft, recharge is limited to 40% from Nov. 1 to Apr. 1

Proposed Agreement Conditions

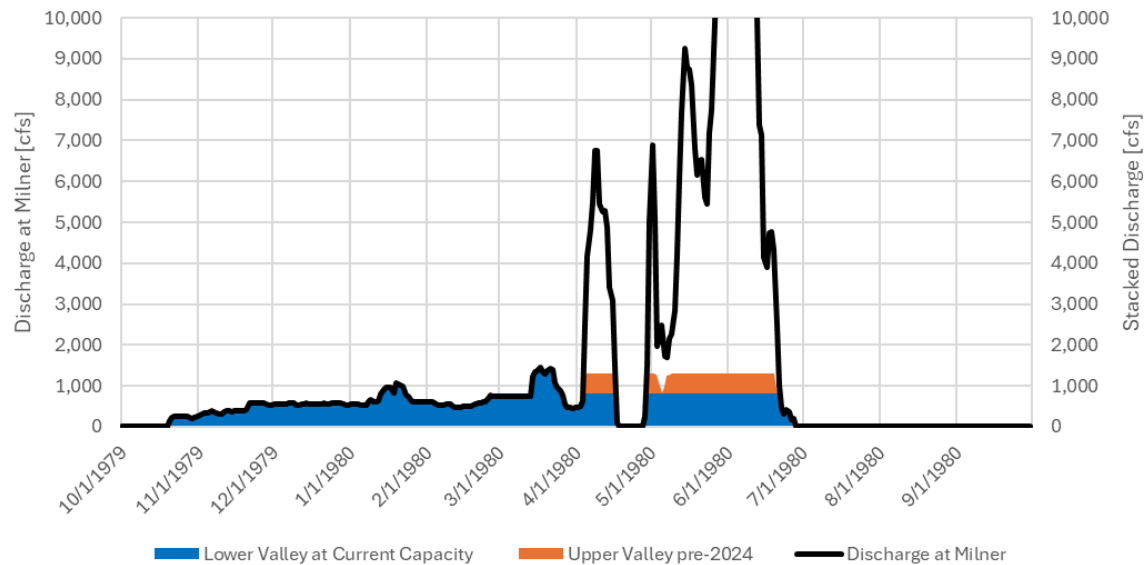
Condition	15 Year Rolling Average (ac-ft)	Recharge Limited to:	Limiting Period
1	< 250,000	not limited	–
2	250,000 – 350,000	50% of flow	December 1 – February 15
3	350,000 – 355,000	40% of flow	December 1 – March 1
4	> 355,000	40% of flow	November 1 – April 1

Impact of Conditions on Recharge in 1980



Impact of Conditions on 1980

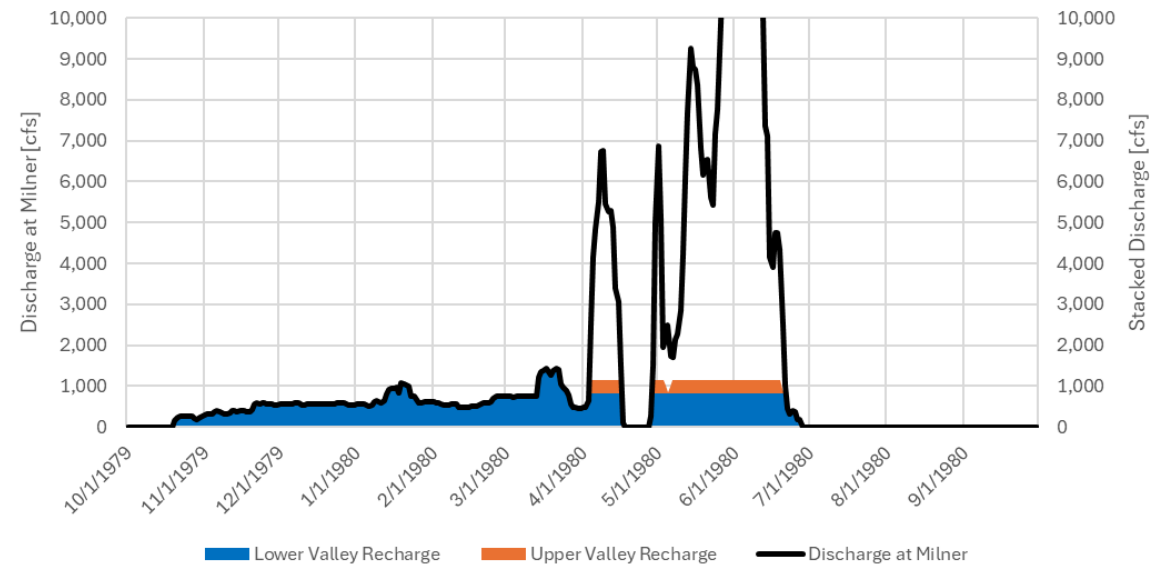
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 1: 250,000 ac-ft 15-year average

Recharge = 373,568 ac-ft

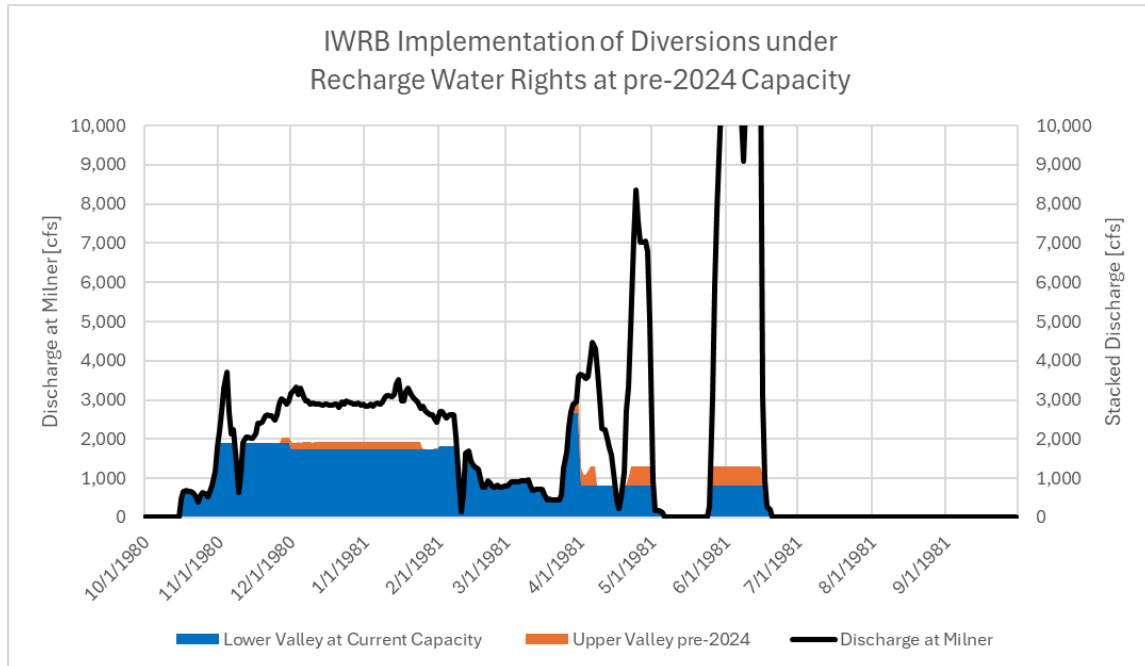
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 1: 250,000 ac-ft 15-year average

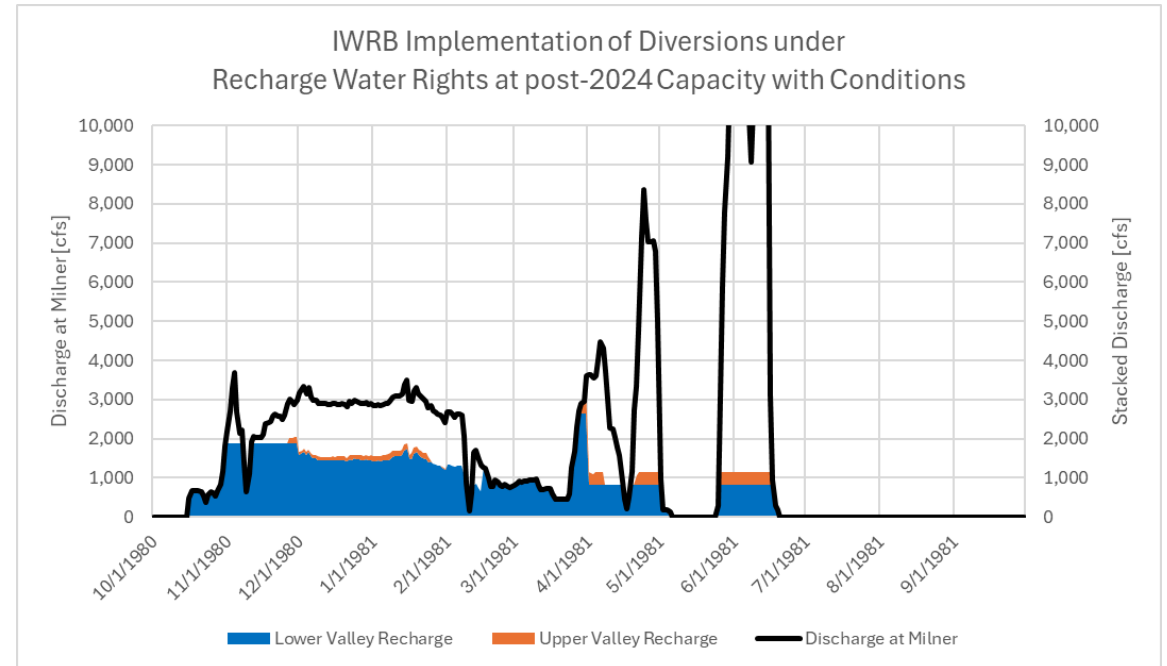
Recharge = 352,670 ac-ft

Impact of Conditions on 1981



Condition 2: 258,328 ac-ft 15-year average

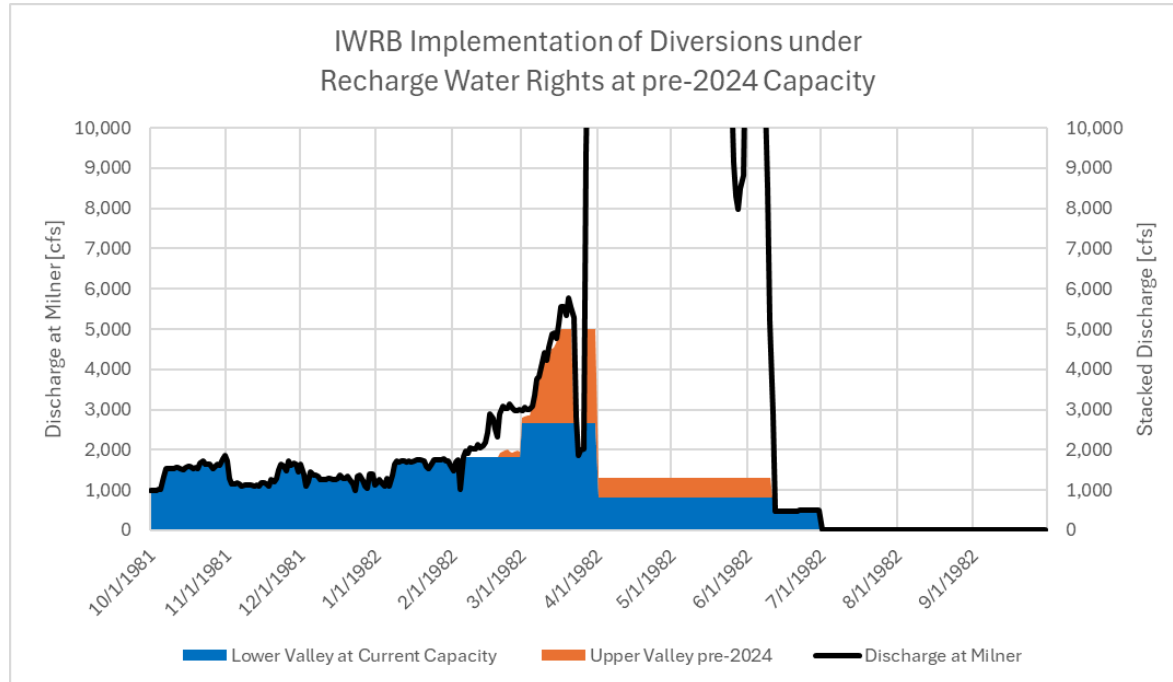
Recharge = 624,410 ac-ft



Condition 2: 250,549 ac-ft 15-year average

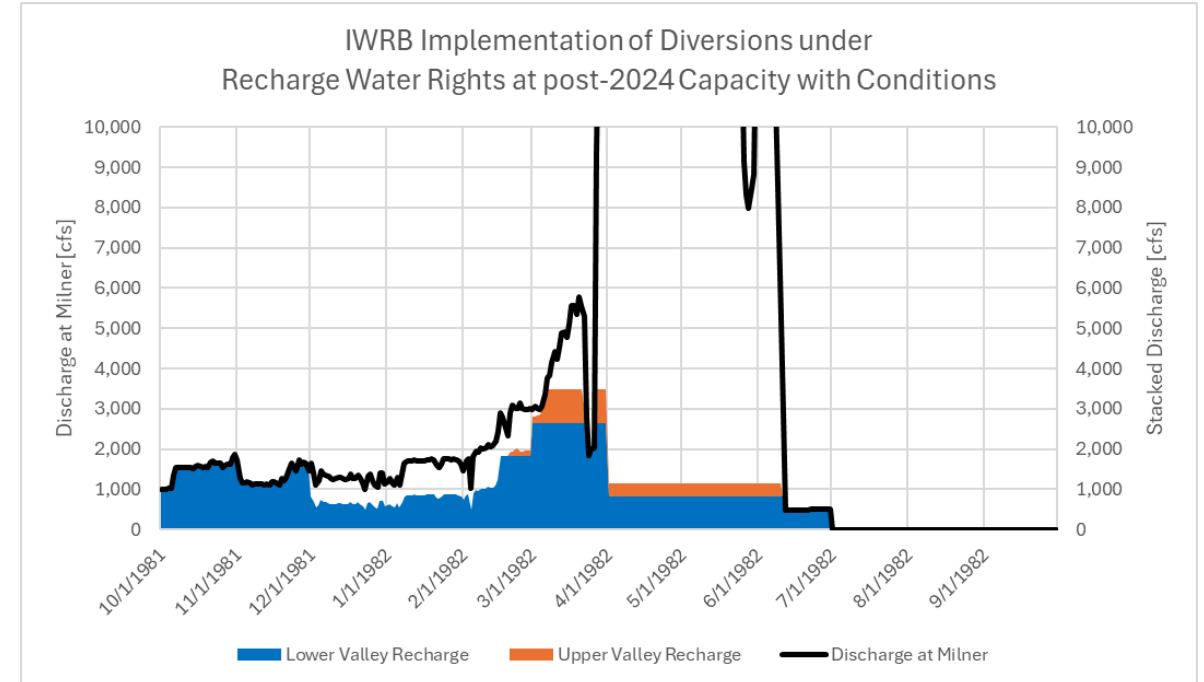
Recharge = 556,389 ac-ft

Impact of Conditions on 1982



Condition 2: 283,199 ac-ft 15-year average

Recharge = 898,353 ac-ft

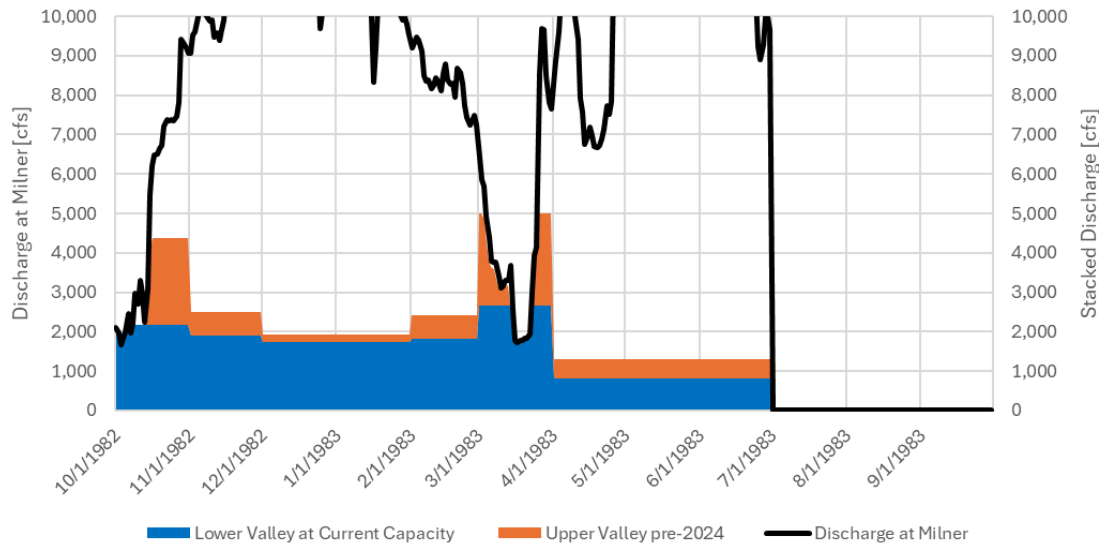


Condition 2: 277,271 ac-ft 15-year average

Recharge = 711,851 ac-ft

Impact of Conditions on 1983

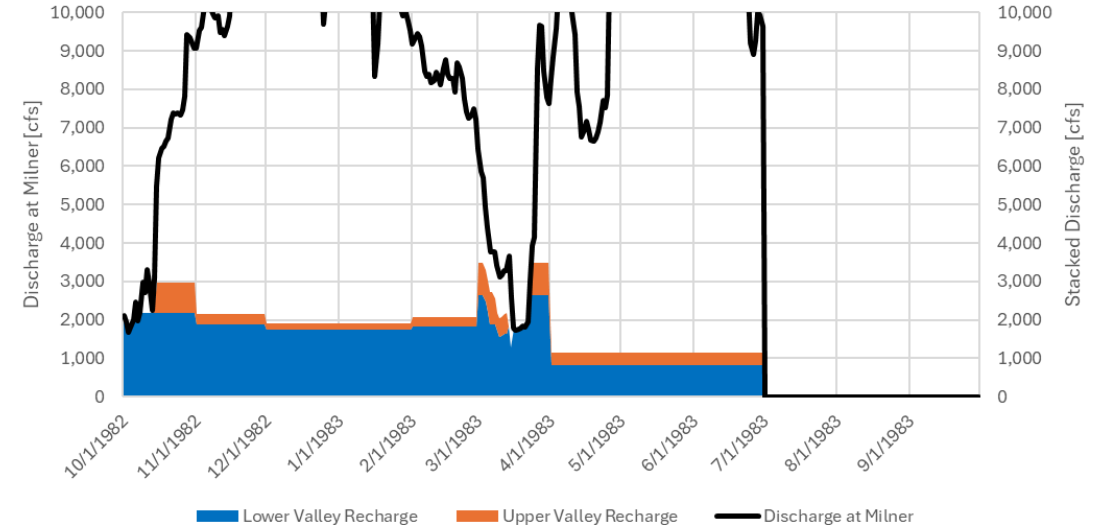
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 2: 326,422 ac-ft 15-year average

Recharge = 1,178,455 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

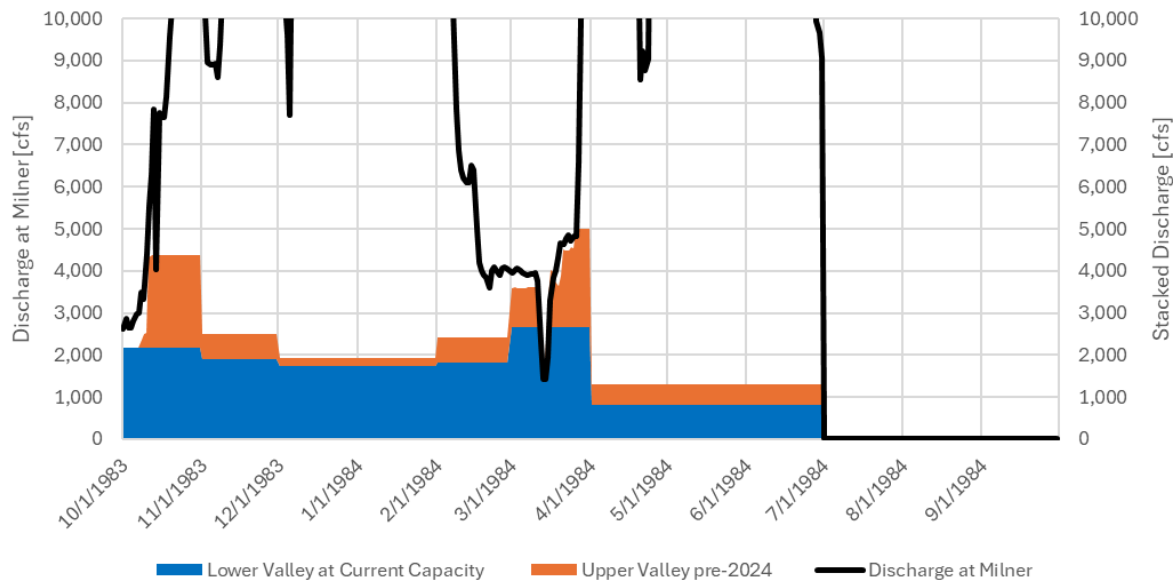


Condition 2: 324,727 ac-ft 15-year average

Recharge = 1,017,819 ac-ft

Impact of Conditions on 1984

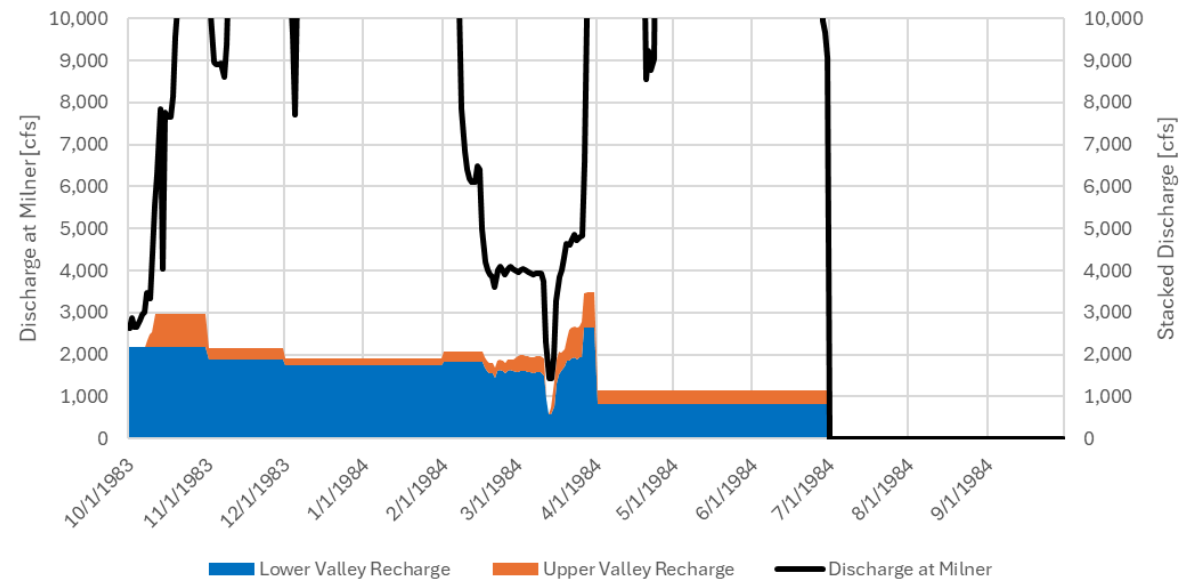
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 388,319 ac-ft 15-year average

Recharge = 1,221,068 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

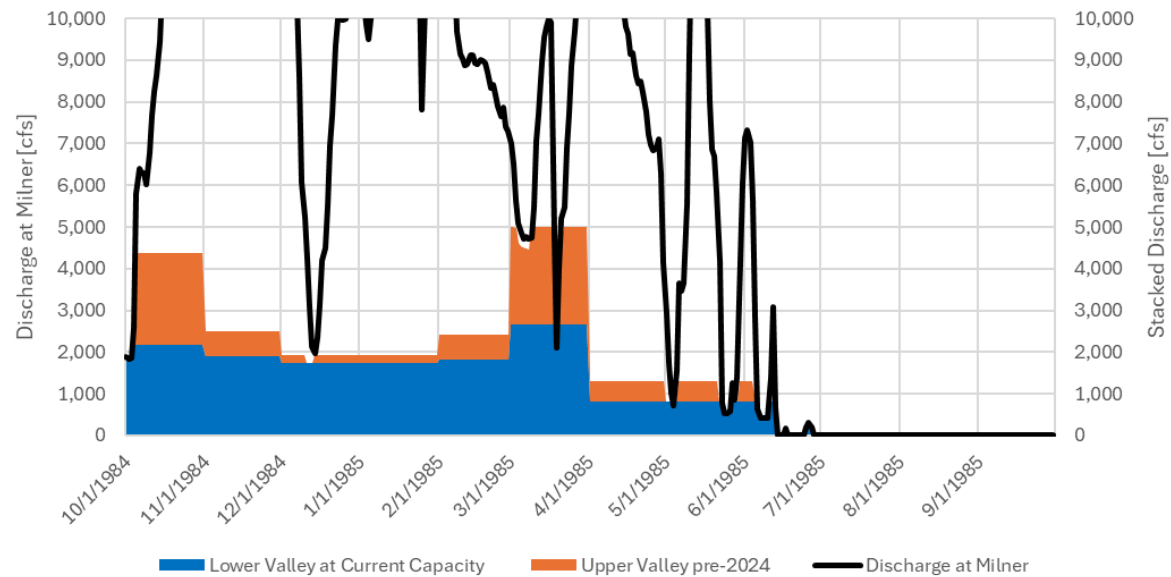


Condition 4: 359,249 ac-ft 15-year average

Recharge = 975,408 ac-ft

Impact of Conditions on 1985

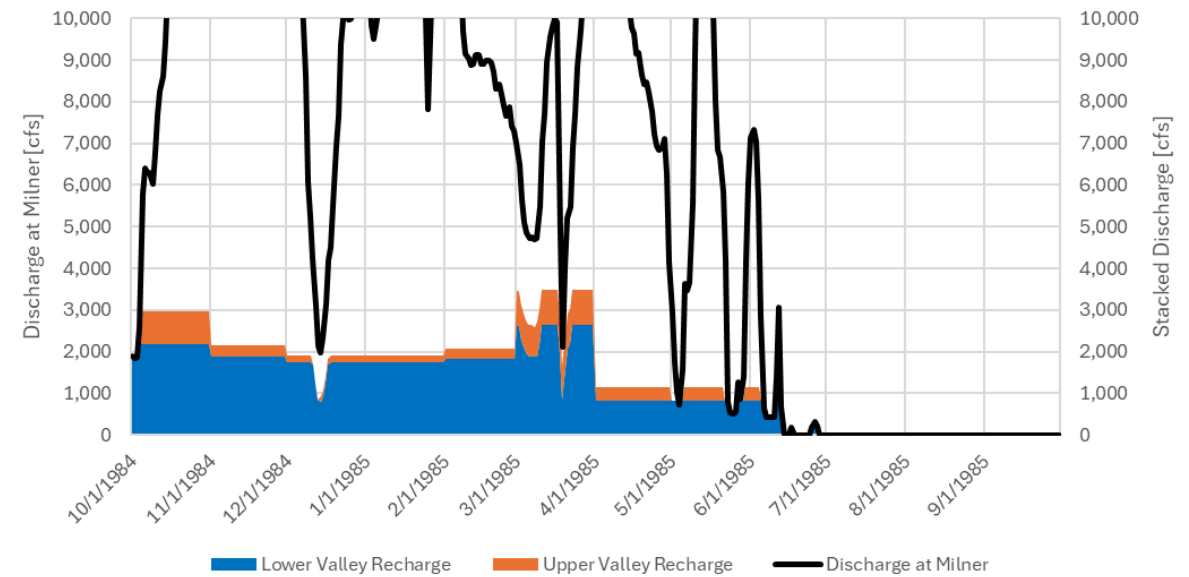
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 453,057 ac-ft 15-year average

Recharge = 1,235,673 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

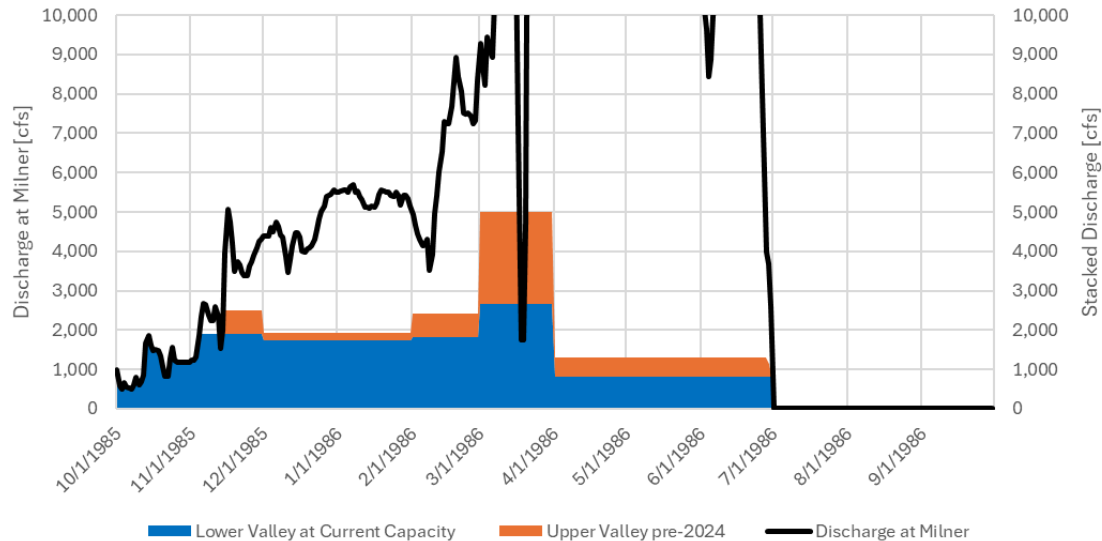


Condition 4: 407,609 ac-ft 15-year average

Recharge = 981,349 ac-ft

Impact of Conditions on 1986

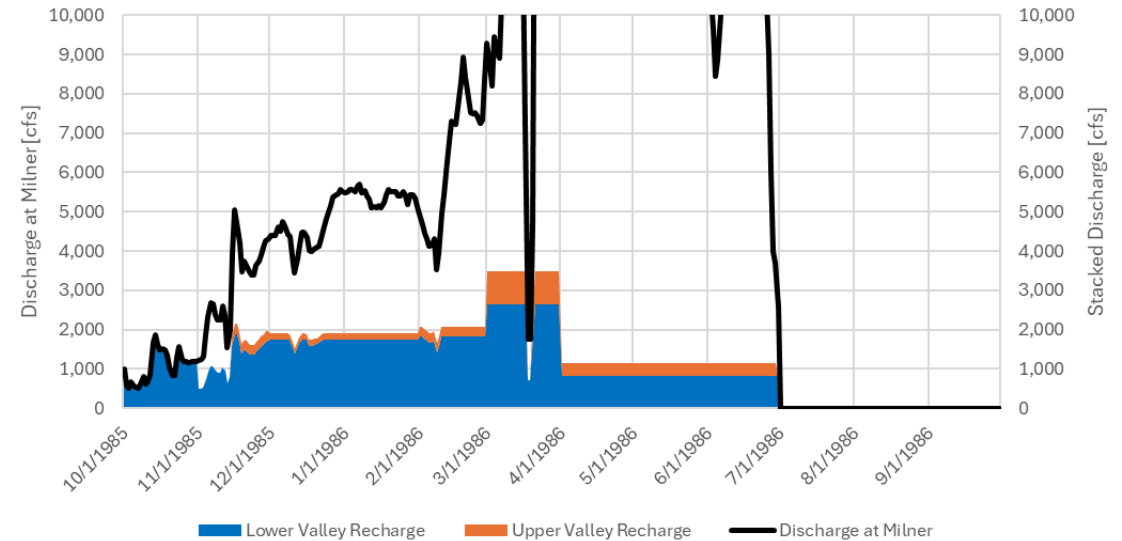
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 518,768 ac-ft 15-year average

Recharge = 1,092,319 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

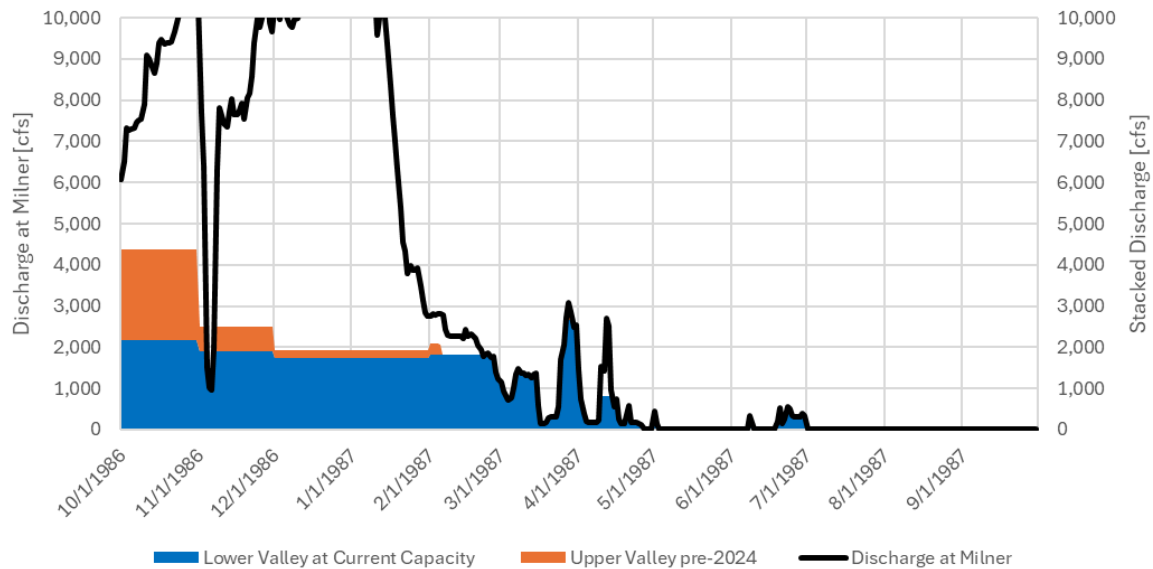


Condition 4: 456366 ac-ft 15-year average

Recharge = 891,379 ac-ft

Impact of Conditions on 1987

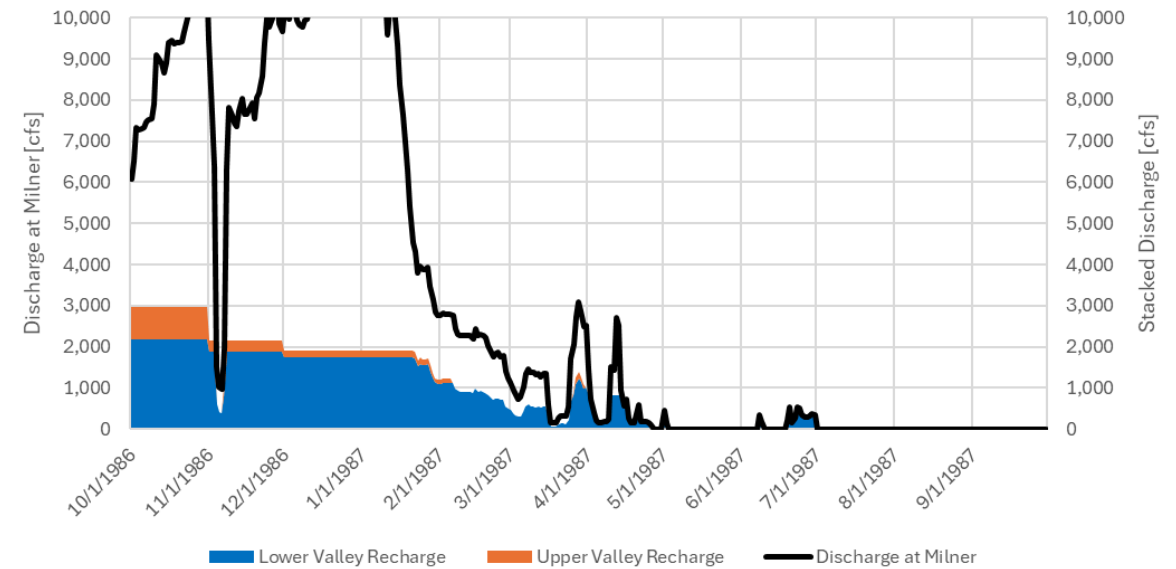
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 574,923 ac-ft 15-year average

Recharge = 856,386 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

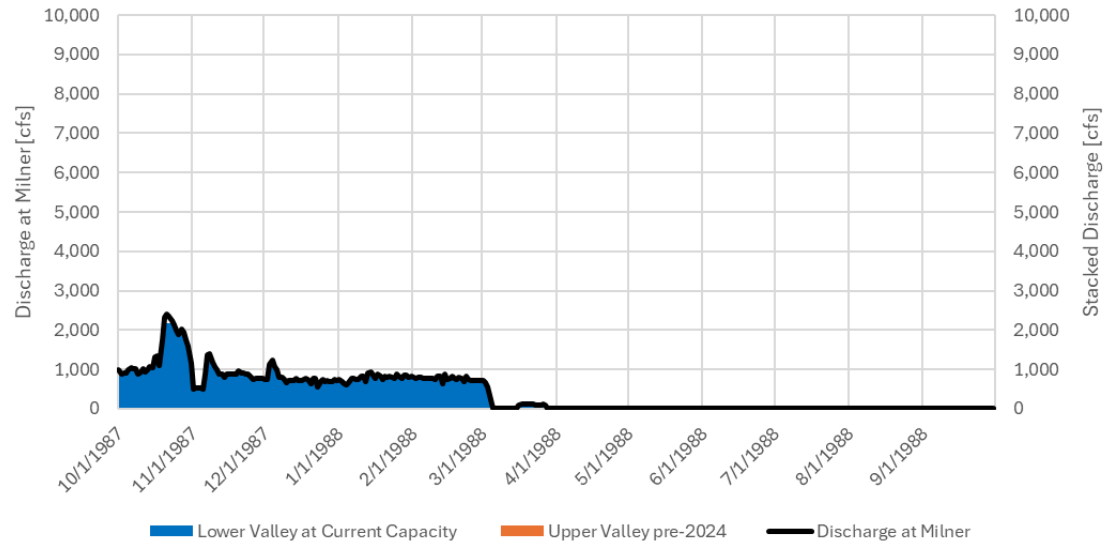


Condition 4: 499,124 ac-ft 15-year average

Recharge = 624,628 ac-ft

Impact of Conditions on 1988

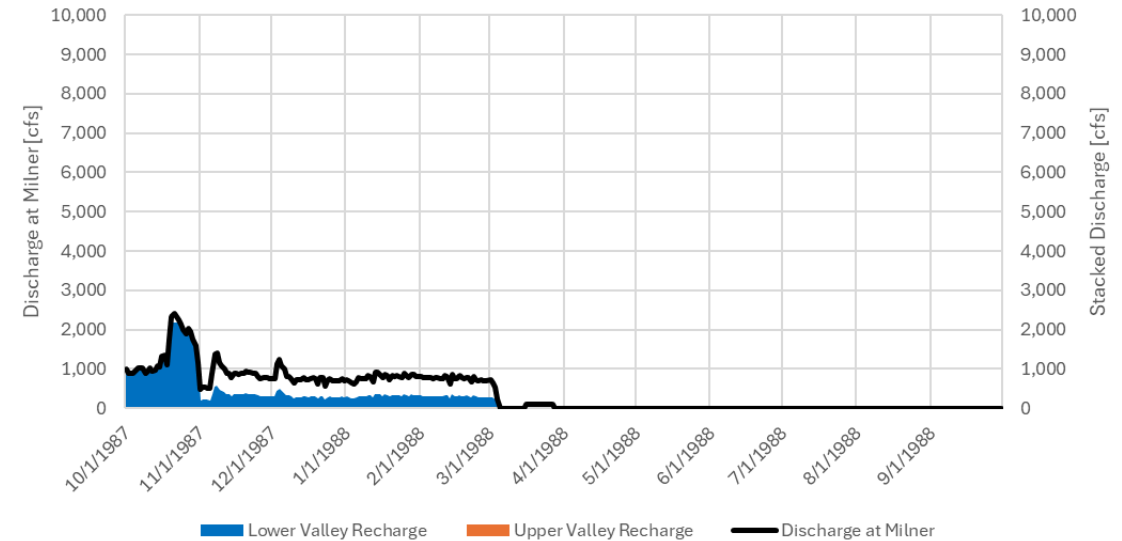
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 615,349 ac-ft 15-year average

Recharge = 281,841 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

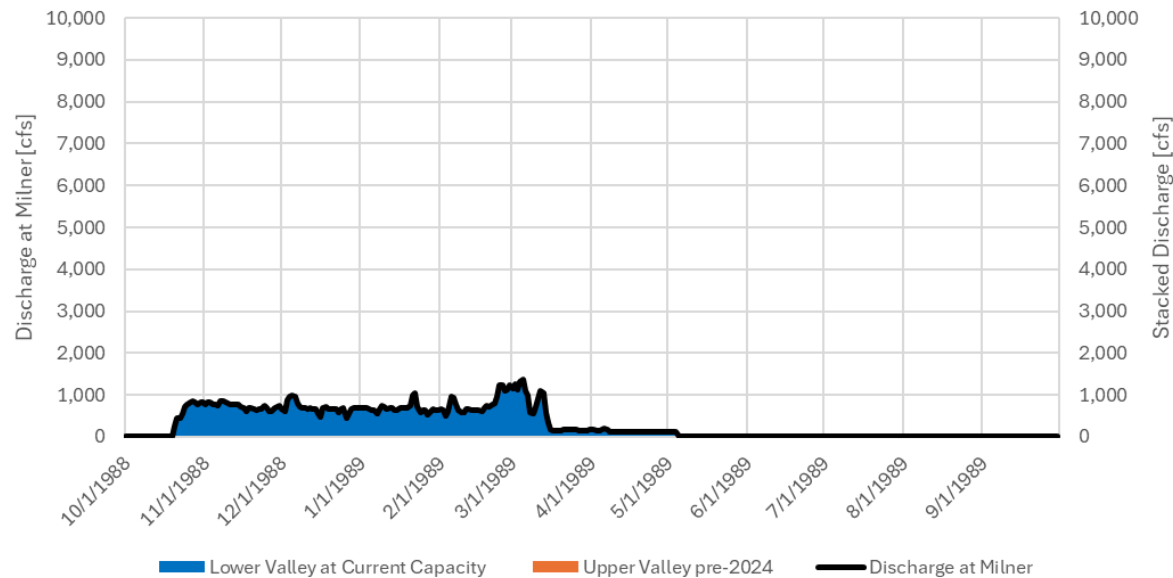


Condition 4: 524,099 ac-ft 15-year average

Recharge = 162,262 ac-ft

Impact of Conditions on 1989

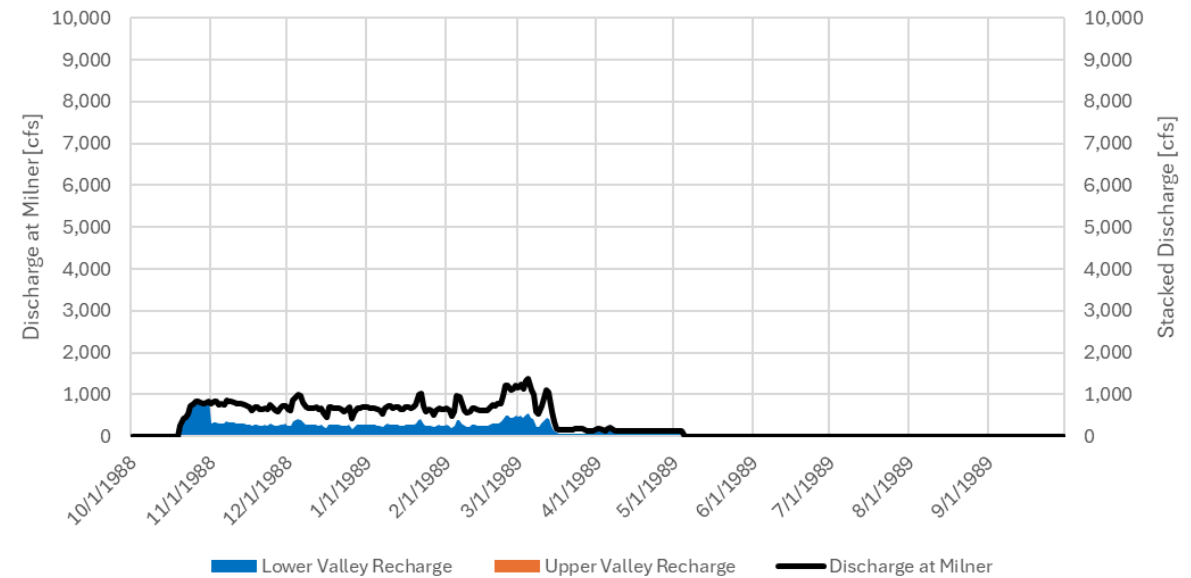
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 617,472 ac-ft 15-year average

Recharge = 229,001 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

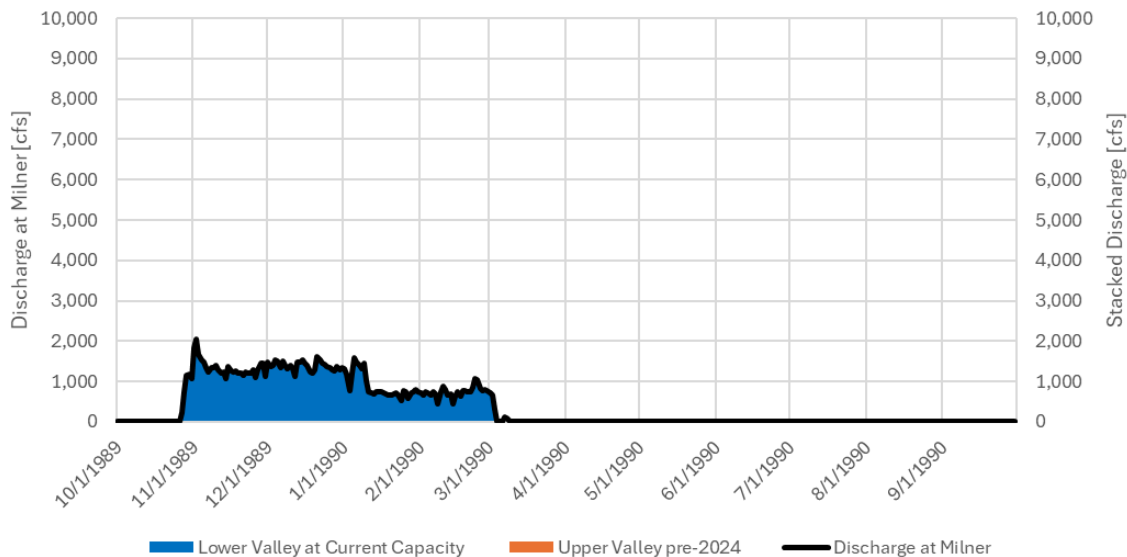


Condition 4: 518,250 ac-ft 15-year average

Recharge = 106,600 ac-ft

Impact of Conditions on 1990

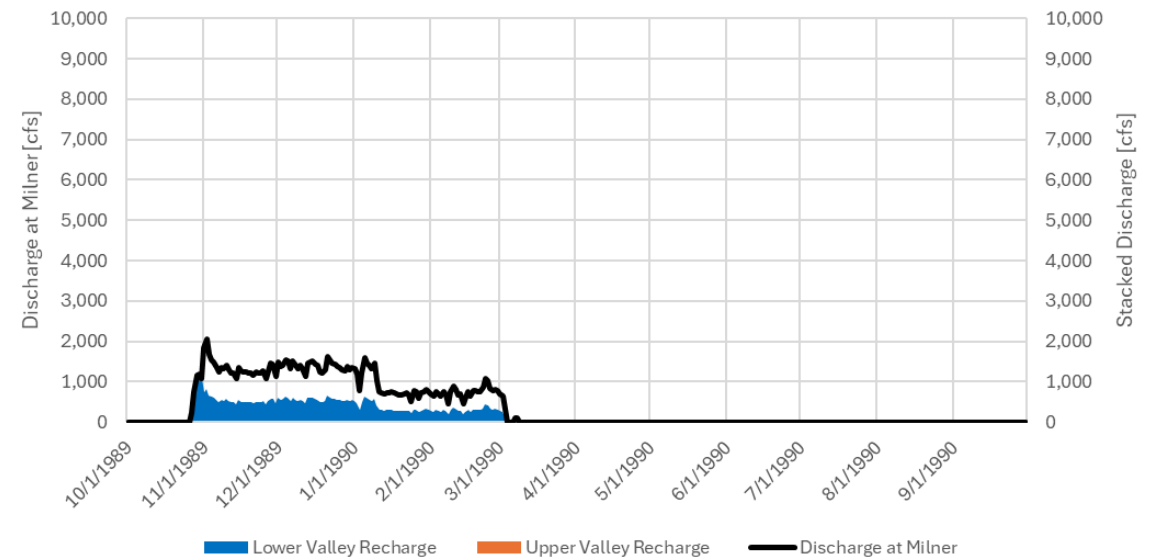
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 616,072 ac-ft 15-year average

Recharge = 272,795 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

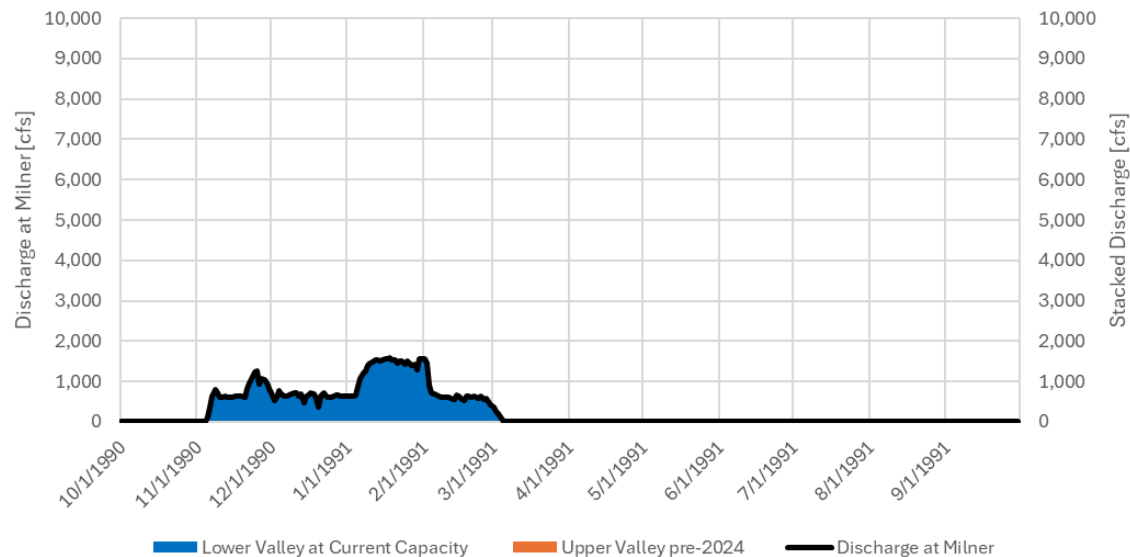


Condition 4: 508,690 ac-ft 15-year average

Recharge = 114,470 ac-ft

Impact of Conditions on 1991

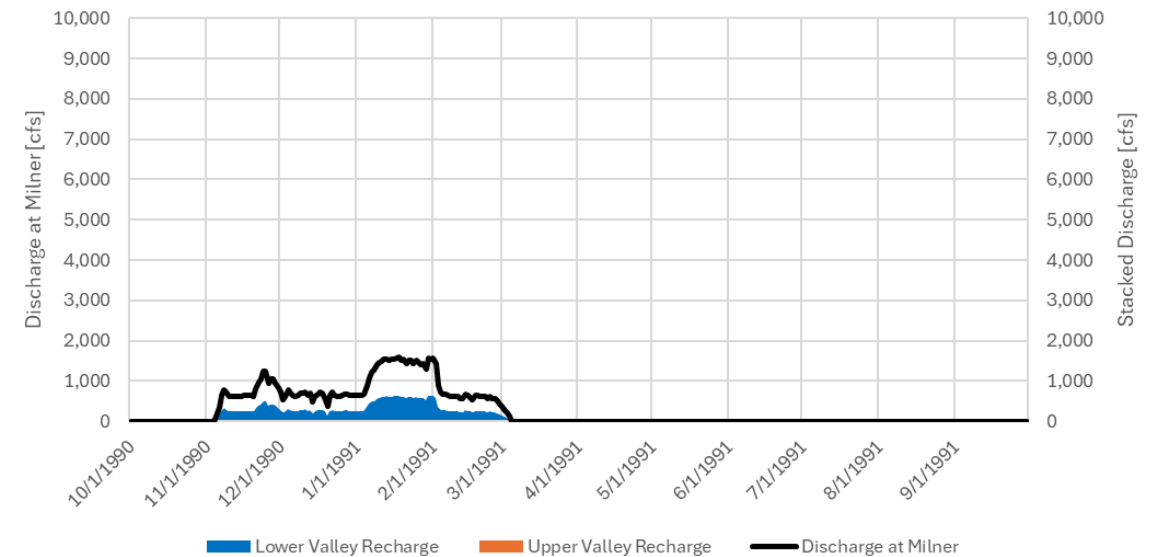
IWRB Implementation of Diversions under Recharge Water Rights at pre-2024 Capacity



Condition 4: 617,591 ac-ft 15-year average

Recharge = 199,903 ac-ft

IWRB Implementation of Diversions under Recharge Water Rights at post-2024 Capacity with Conditions

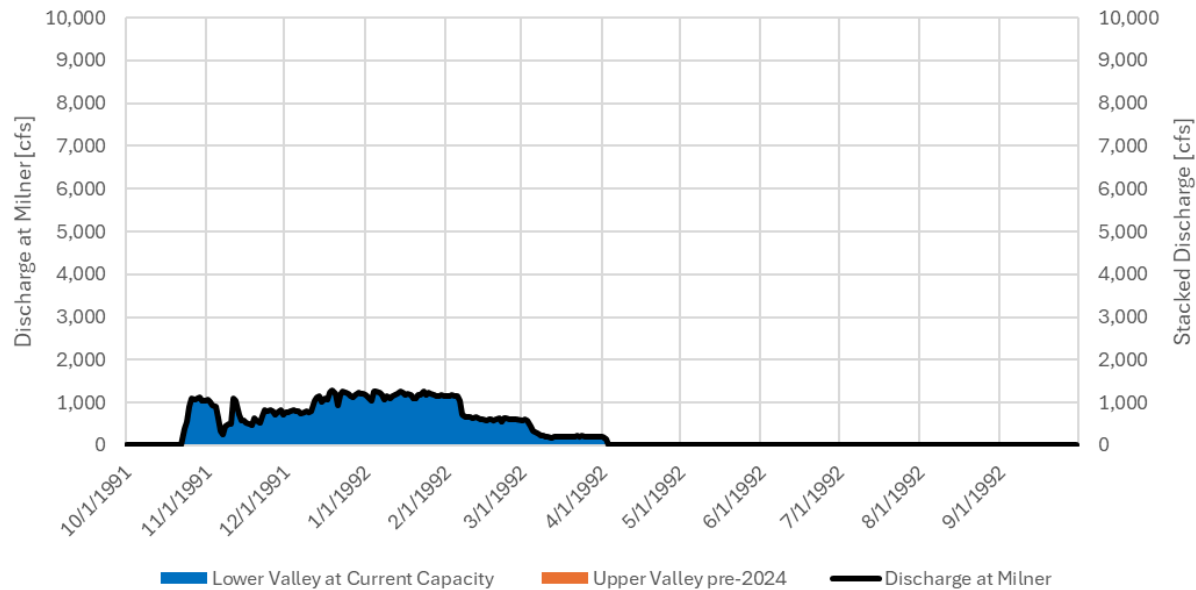


Condition 4: 499,655 ac-ft 15-year average

Recharge = 79,961 ac-ft

Impact of Conditions on 1992

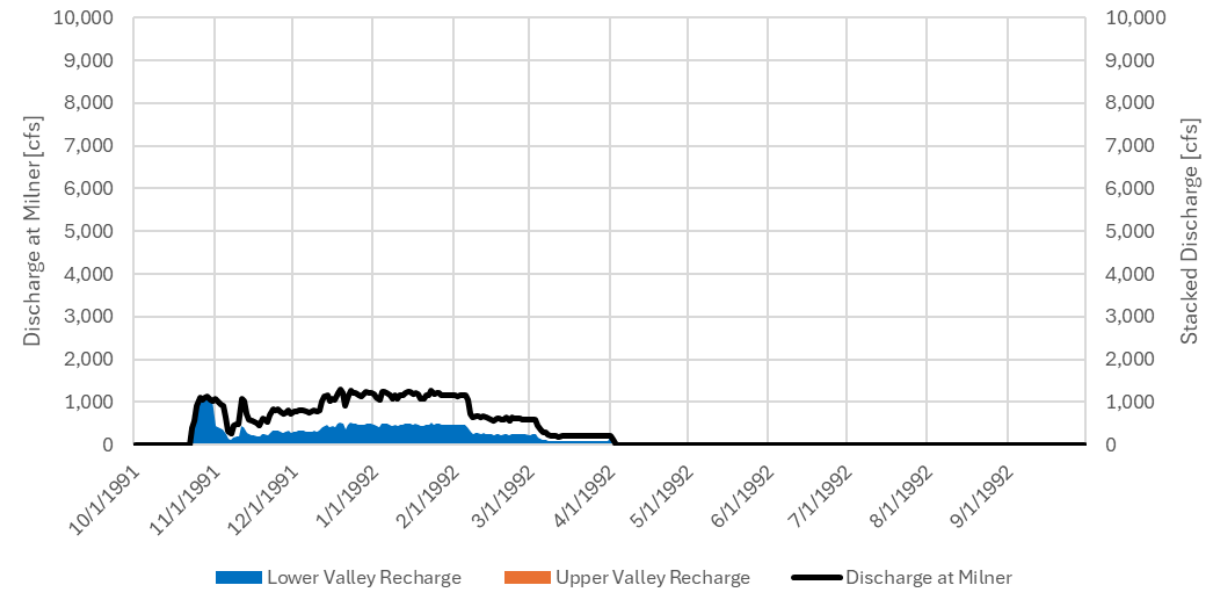
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 614,252 ac-ft 15-year average

Recharge = 250,514 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

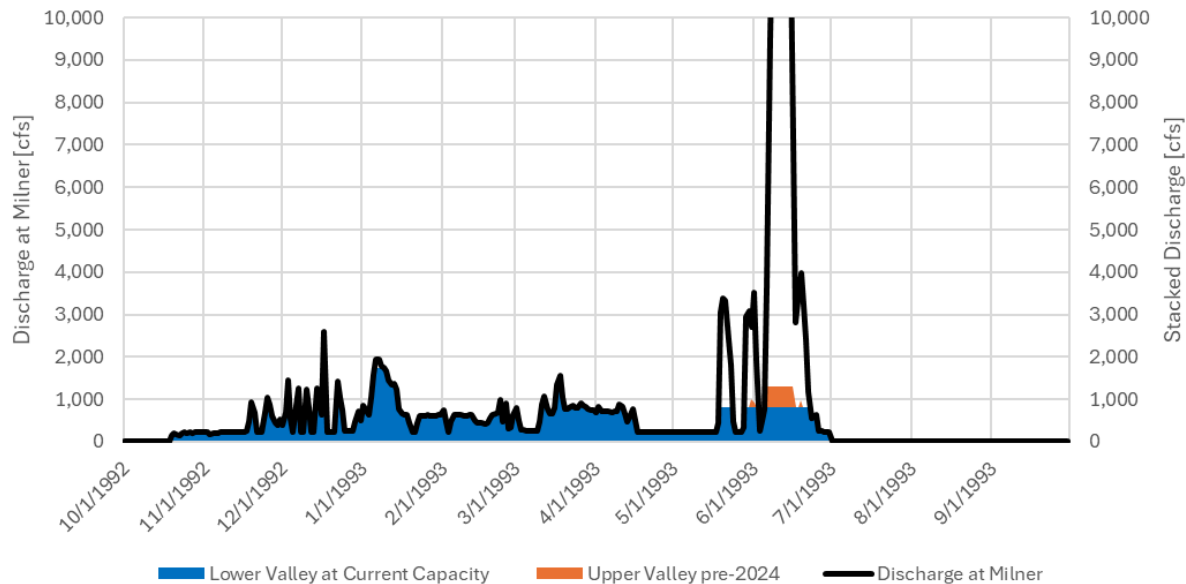


Condition 4: 488,319 ac-ft 15-year average

Recharge = 110,549 ac-ft

Impact of Conditions on 1993

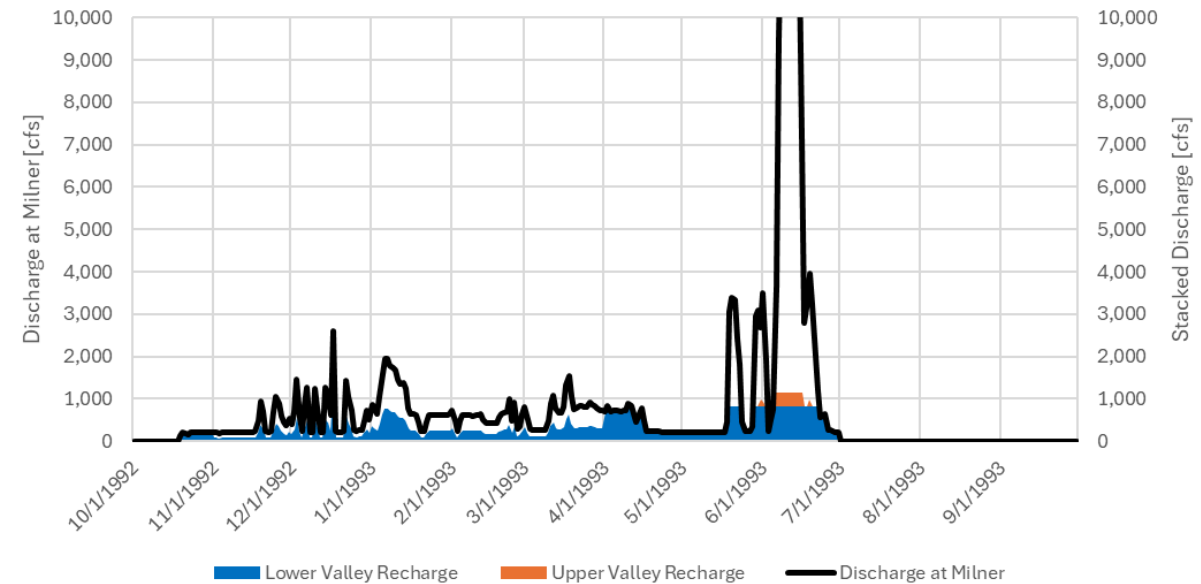
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 614,286 ac-ft 15-year average

Recharge = 301,307 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

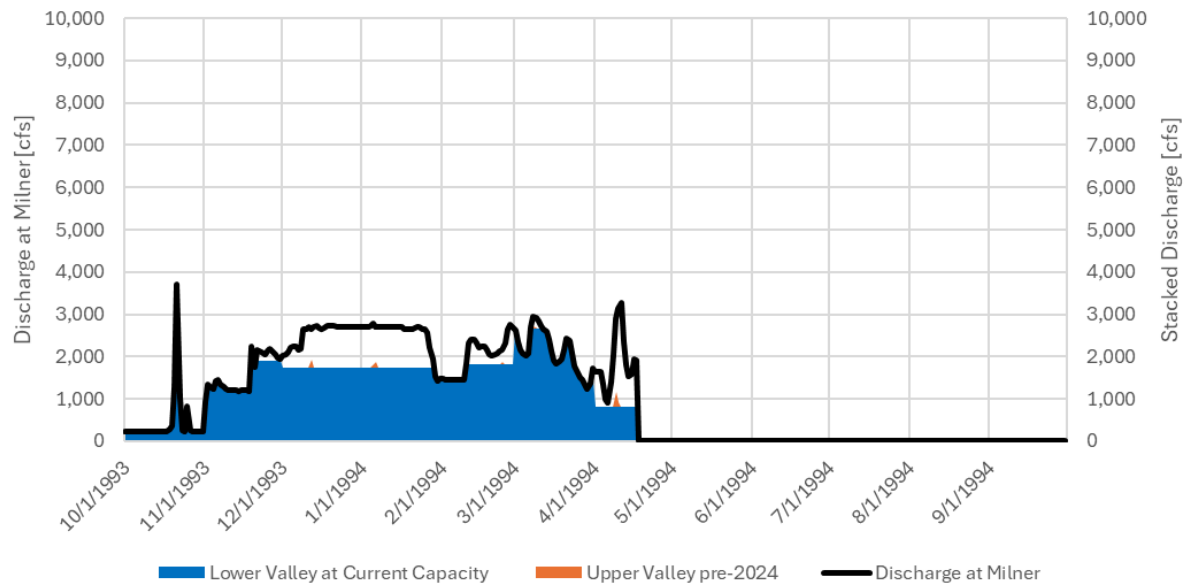


Condition 4: 479,022 ac-ft 15-year average

Recharge = 182,794 ac-ft

Impact of Conditions on 1994

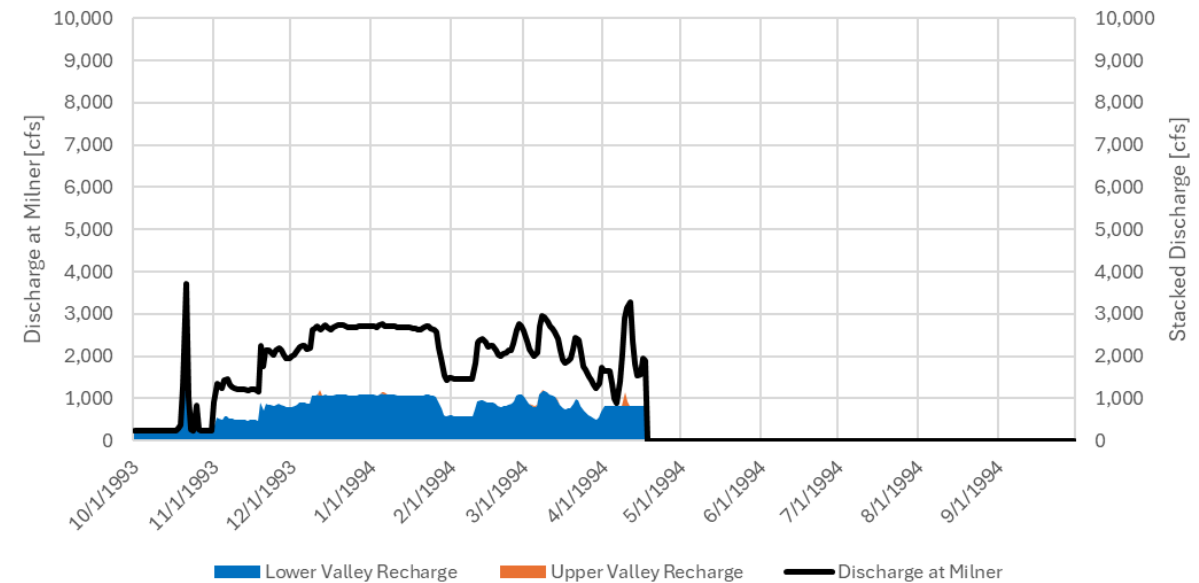
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 617,706 ac-ft 15-year average

Recharge = 578,728 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

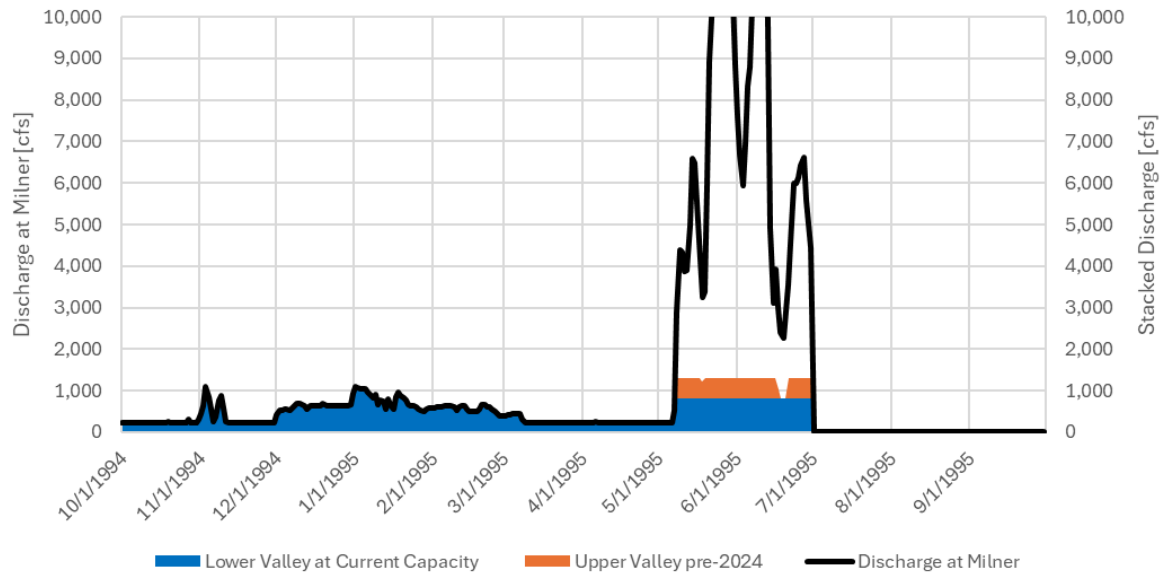


Condition 4: 474,542 ac-ft 15-year average

Recharge = 310,645 ac-ft

Impact of Conditions on 1995

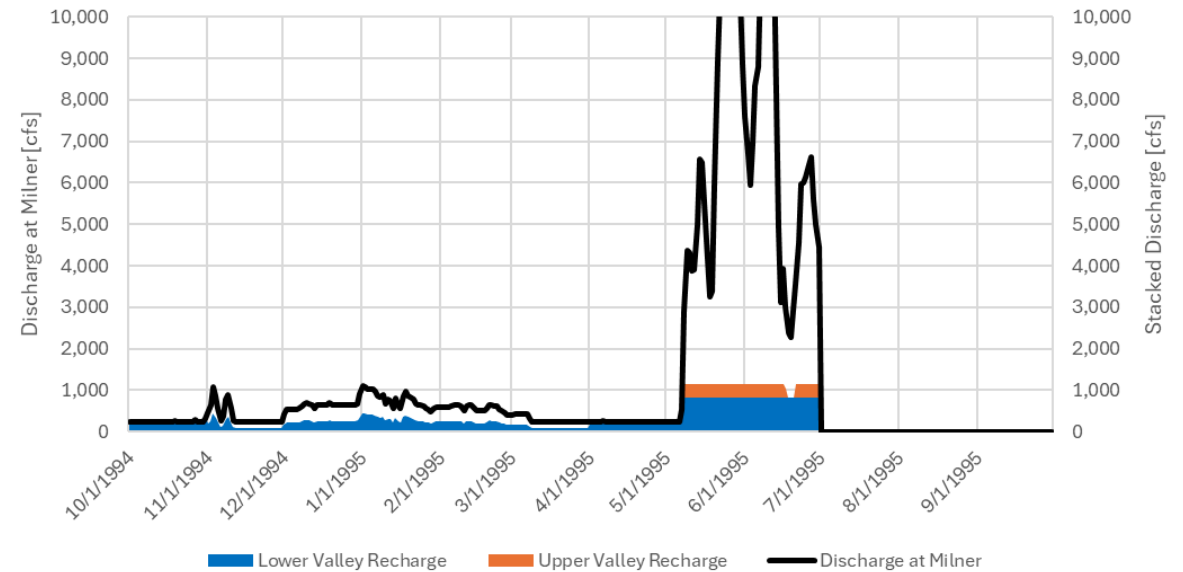
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 639,621 ac-ft 15-year average

Recharge = 323,711 ac-ft

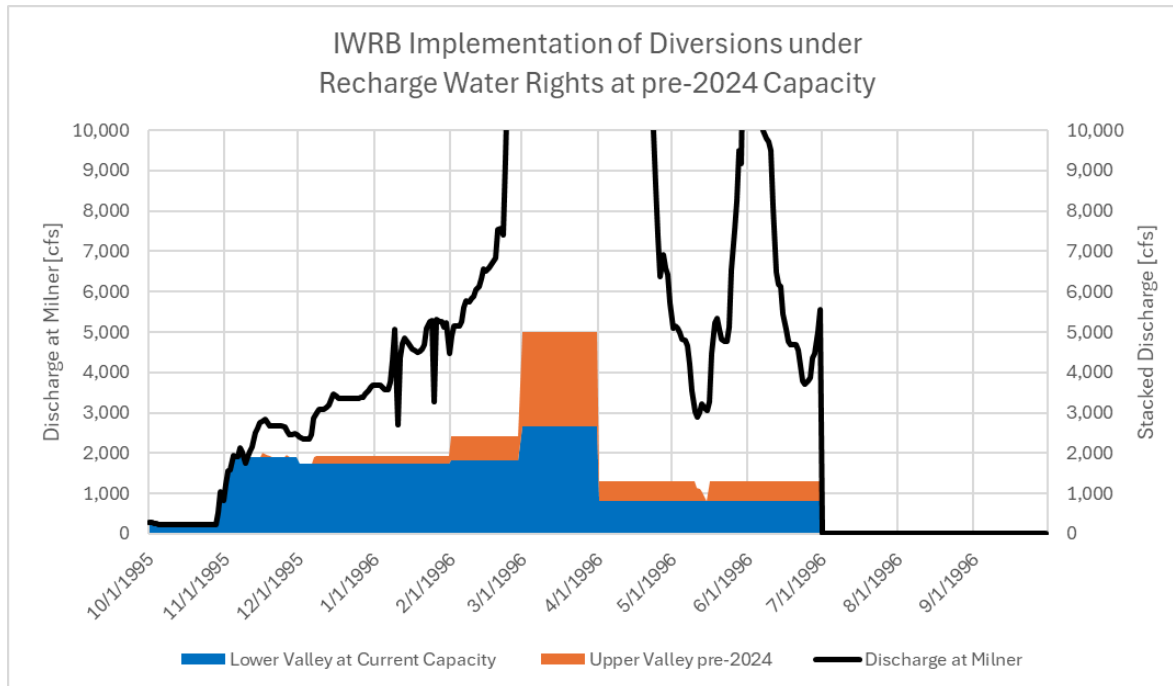
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 4: 478,585 ac-ft 15-year average

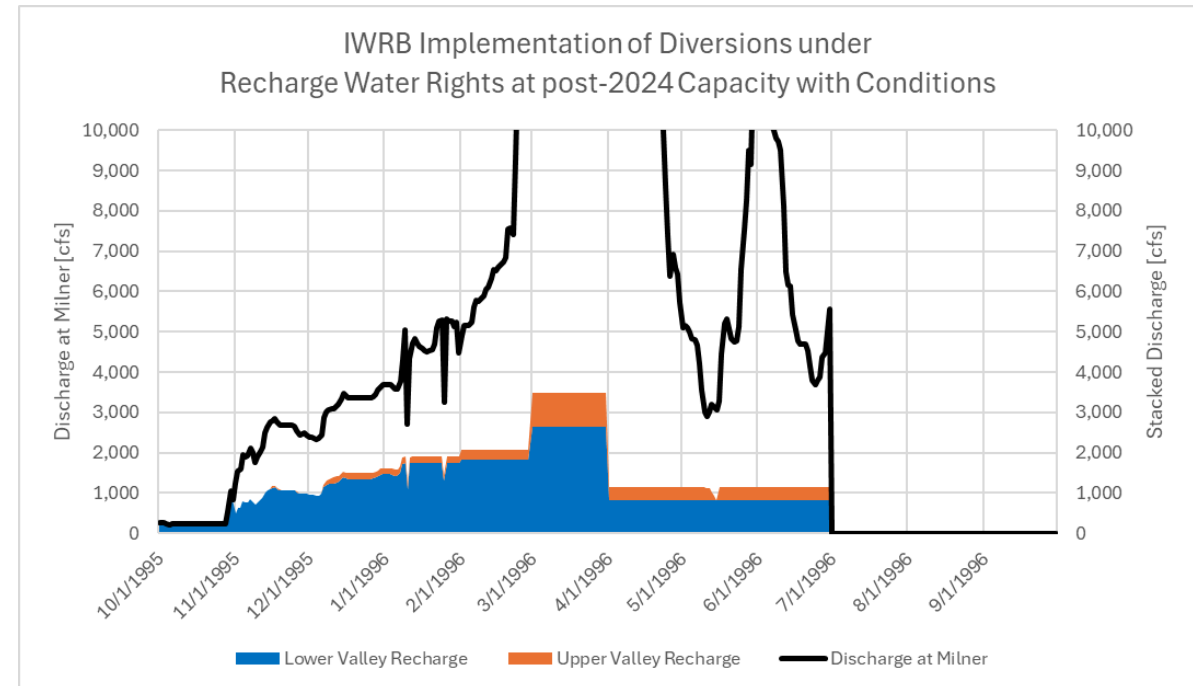
Recharge = 212,847 ac-ft

Impact of Conditions on 1996



Condition 4: 636,298 ac-ft 15-year average

Recharge = 1,037,345 ac-ft

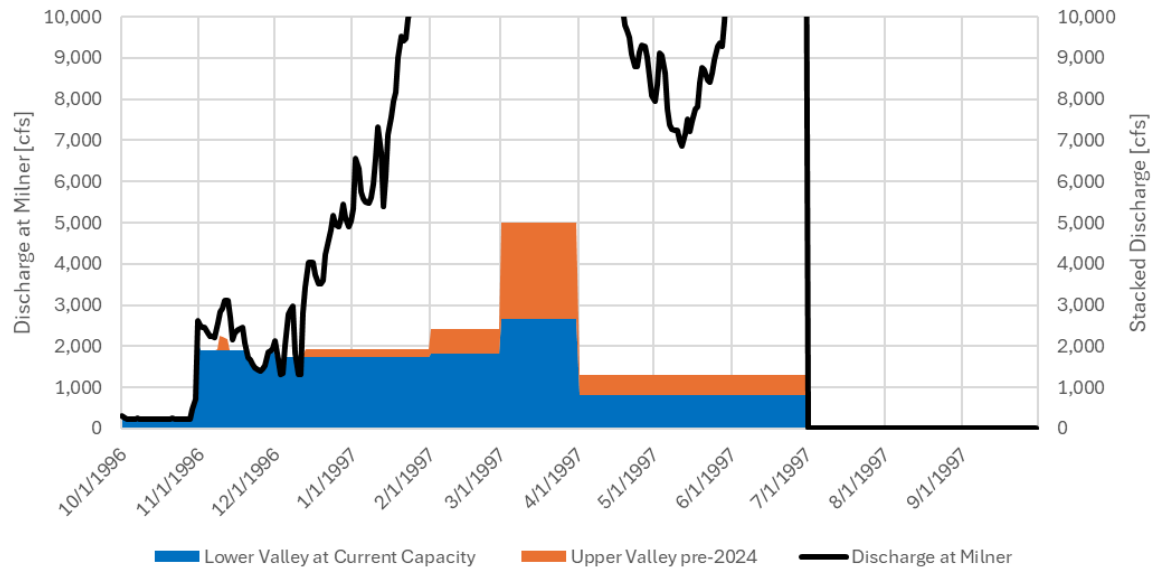


Condition 4: 469,263 ac-ft 15-year average

Recharge = 799,464 ac-ft

Impact of Conditions on 1997

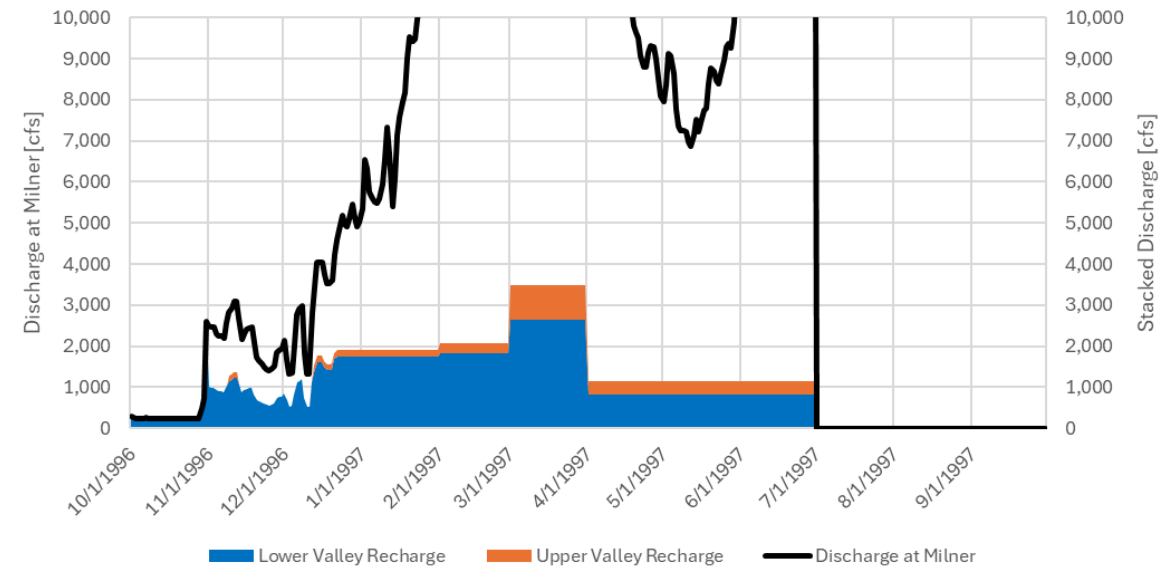
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 663,827 ac-ft 15-year average

Recharge = 1,036,016 ac-ft

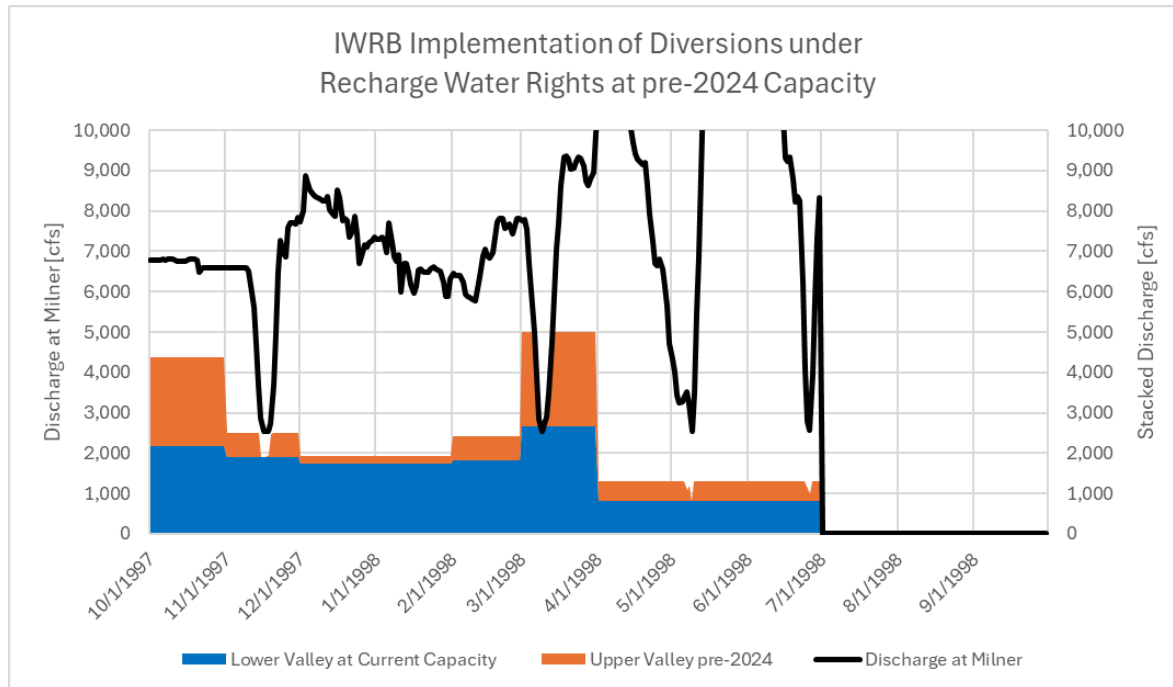
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 4: 485,468 ac-ft 15-year average

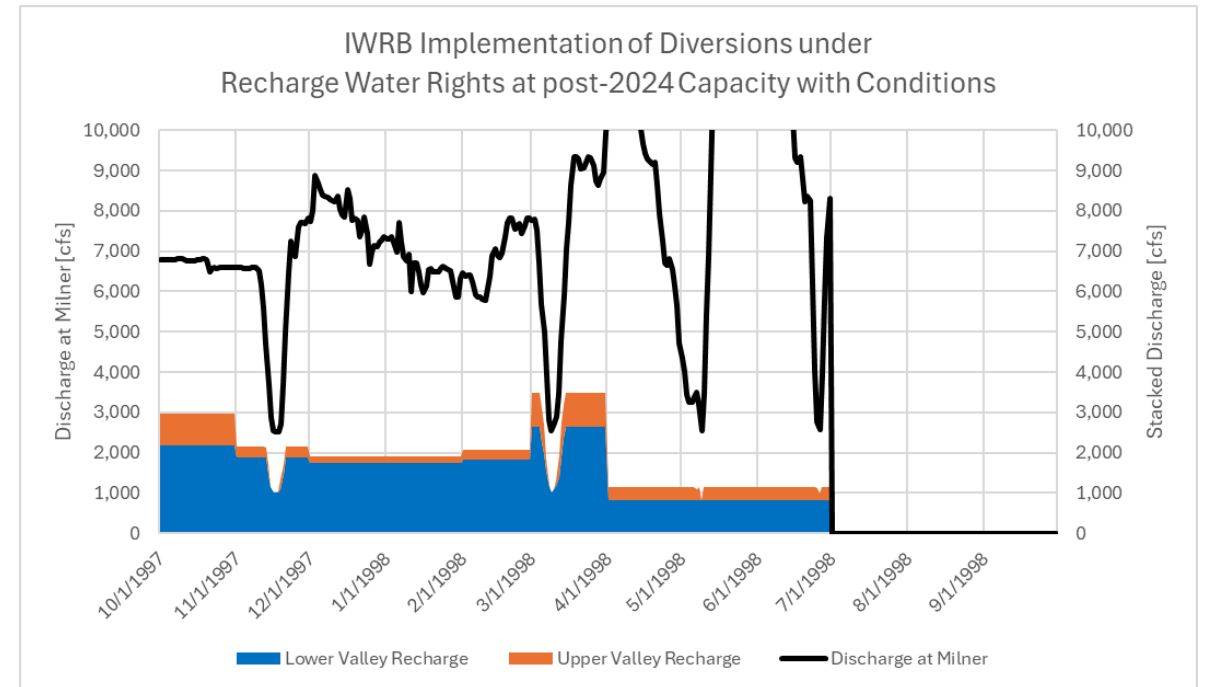
Recharge = 809,381 ac-ft

Impact of Conditions on 1998



Condition 4: 673,004 ac-ft 15-year average

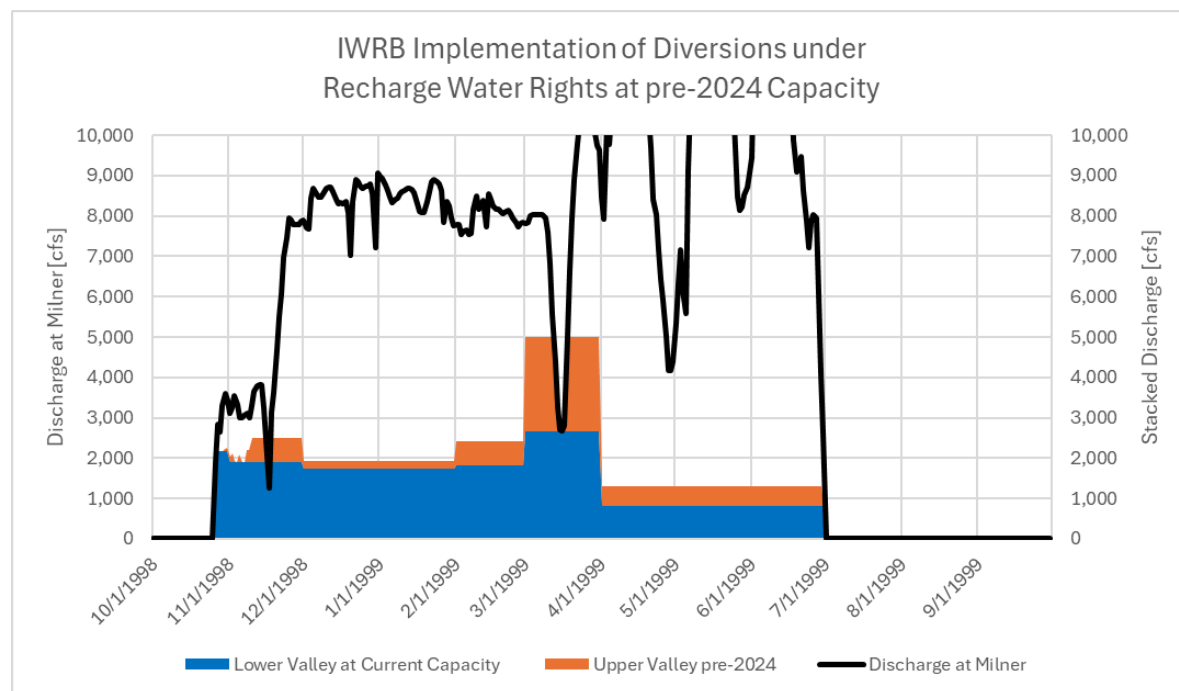
Recharge = 1,300,446 ac-ft



Condition 4: 491,970 ac-ft 15-year average

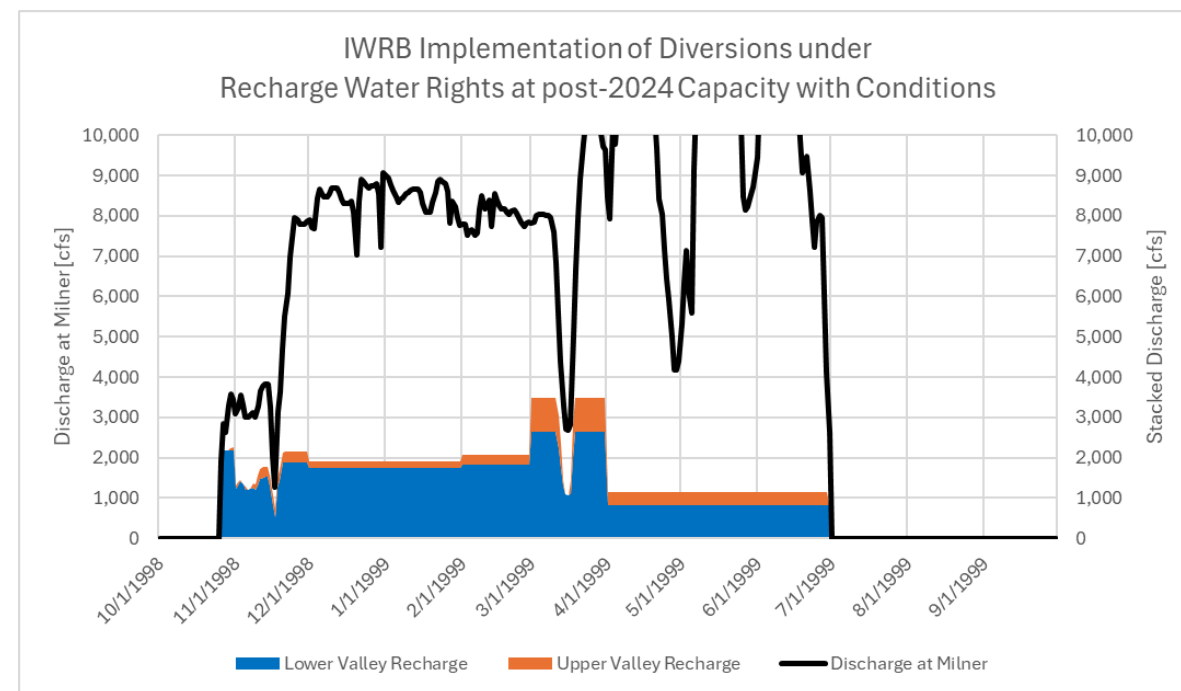
Recharge = 1,030,602 ac-ft

Impact of Conditions on 1999



Condition 4: 681,137 ac-ft 15-year average

Recharge = 1,059,592 ac-ft

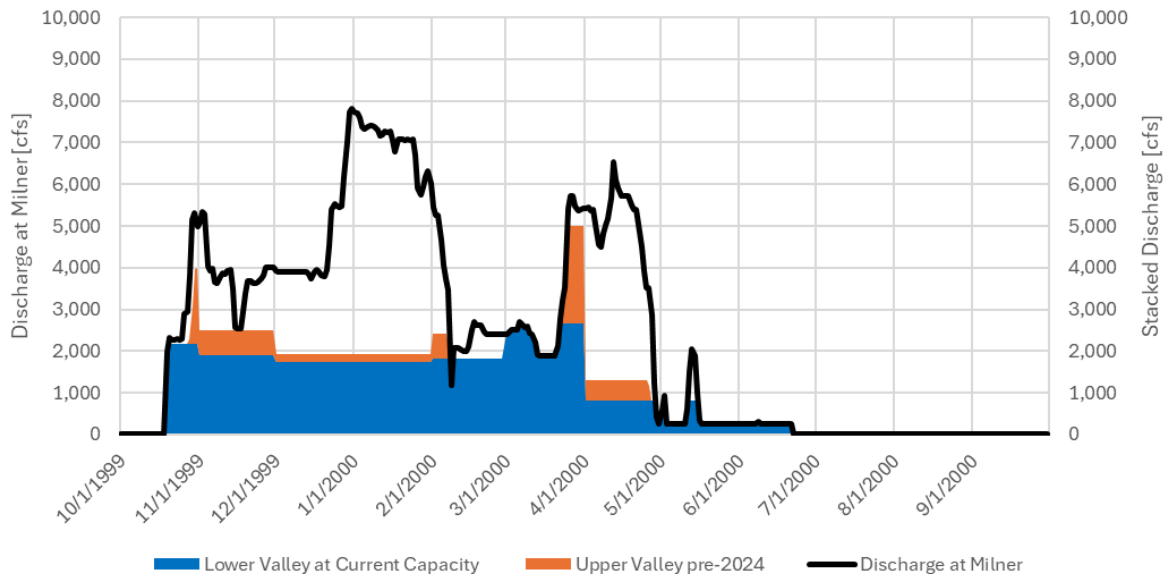


Condition 4: 492,823 ac-ft 15-year average

Recharge = 869,875 ac-ft

Impact of Conditions on 2000

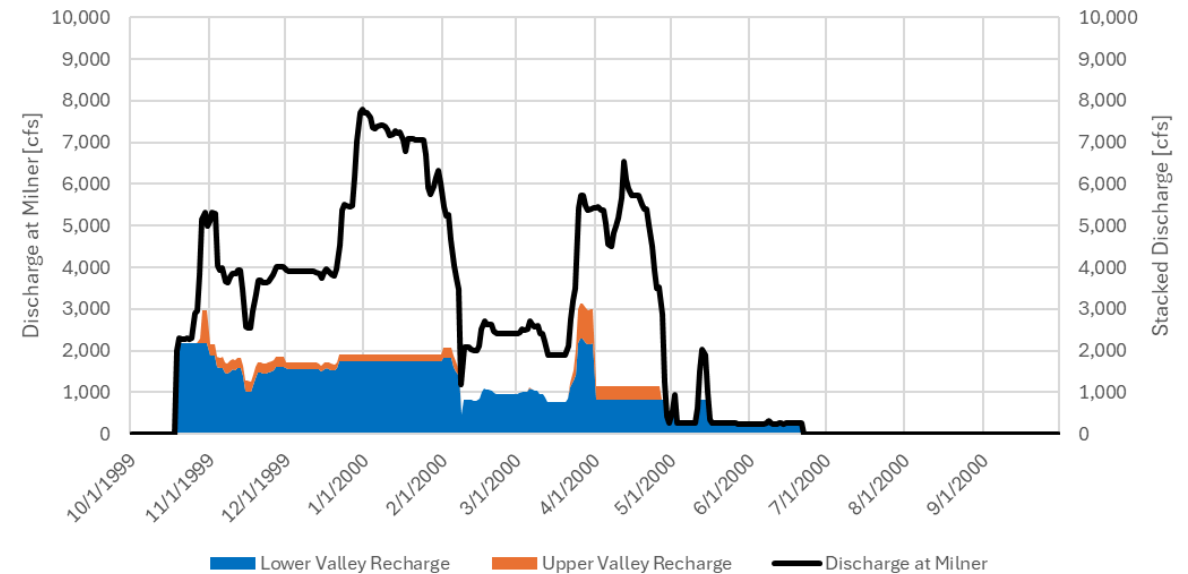
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 670,372 ac-ft 15-year average

Recharge = 845,935 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

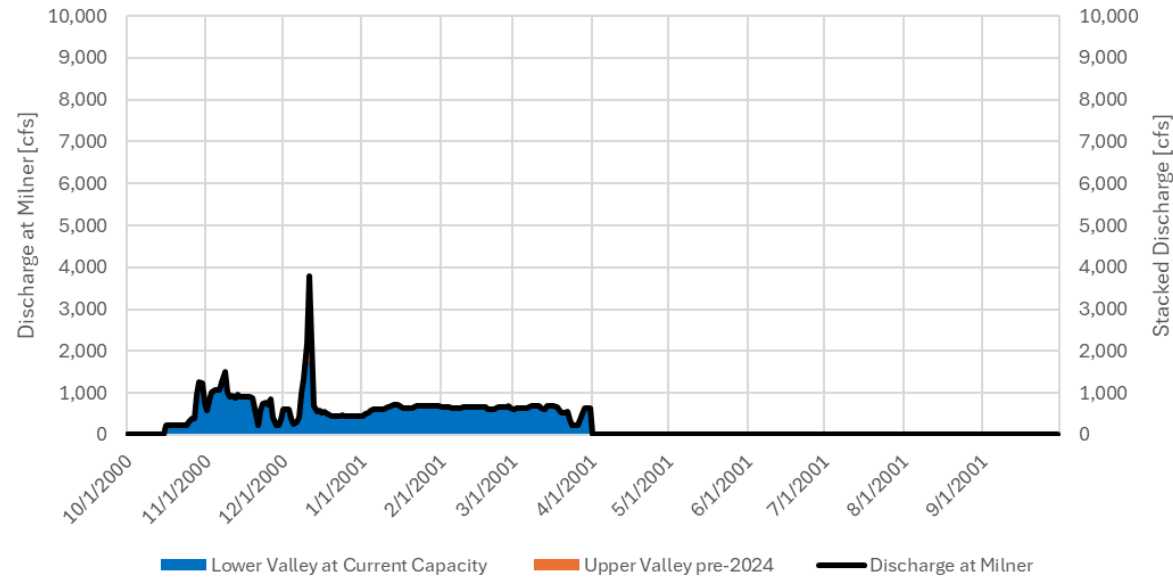


Condition 4: 485,787 ac-ft 15-year average

Recharge = 638,987 ac-ft

Impact of Conditions on 2001

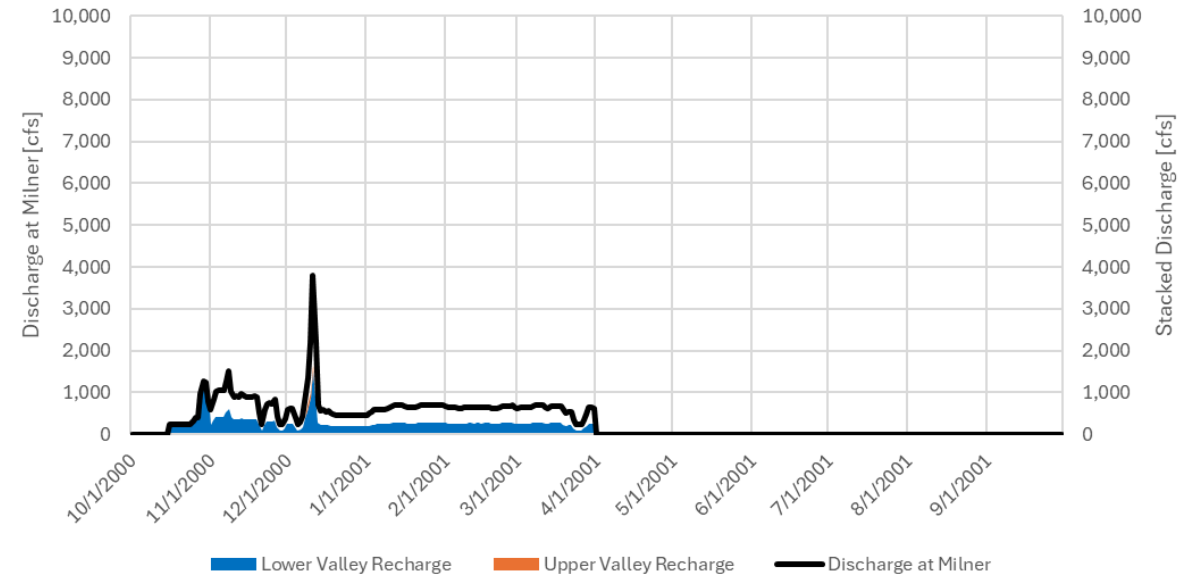
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 644,389 ac-ft 15-year average

Recharge = 214,303 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

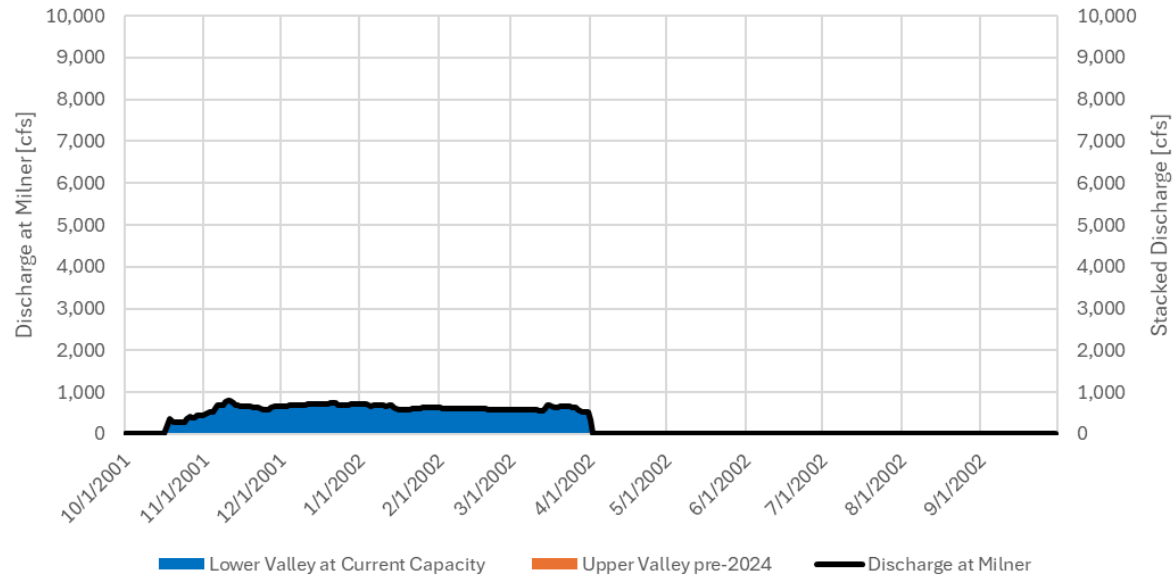


Condition 4: 462,963 ac-ft 15-year average

Recharge = 97,225 ac-ft

Impact of Conditions on 2002

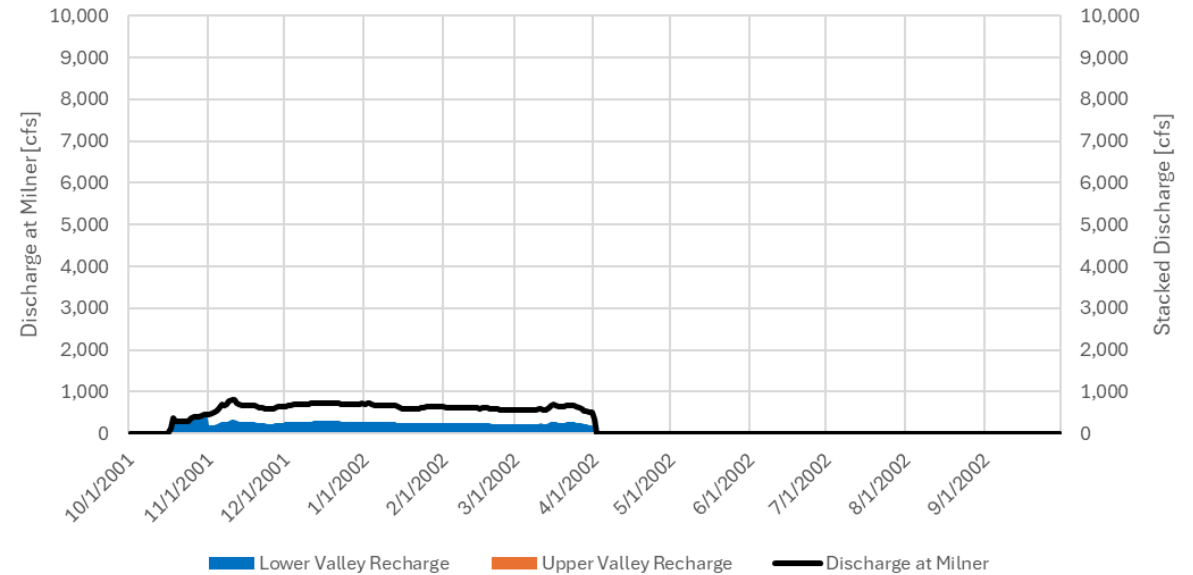
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 585,855 ac-ft 15-year average

Recharge = 202,323 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

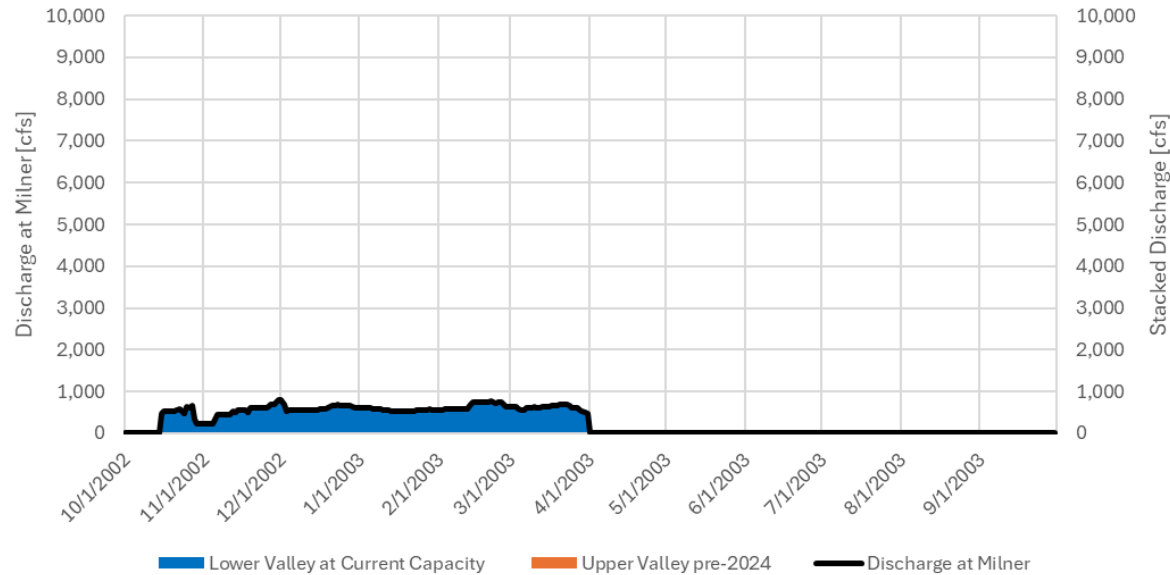


Condition 4: 410,019 ac-ft 15-year average

Recharge = 87,526 ac-ft

Impact of Conditions on 2003

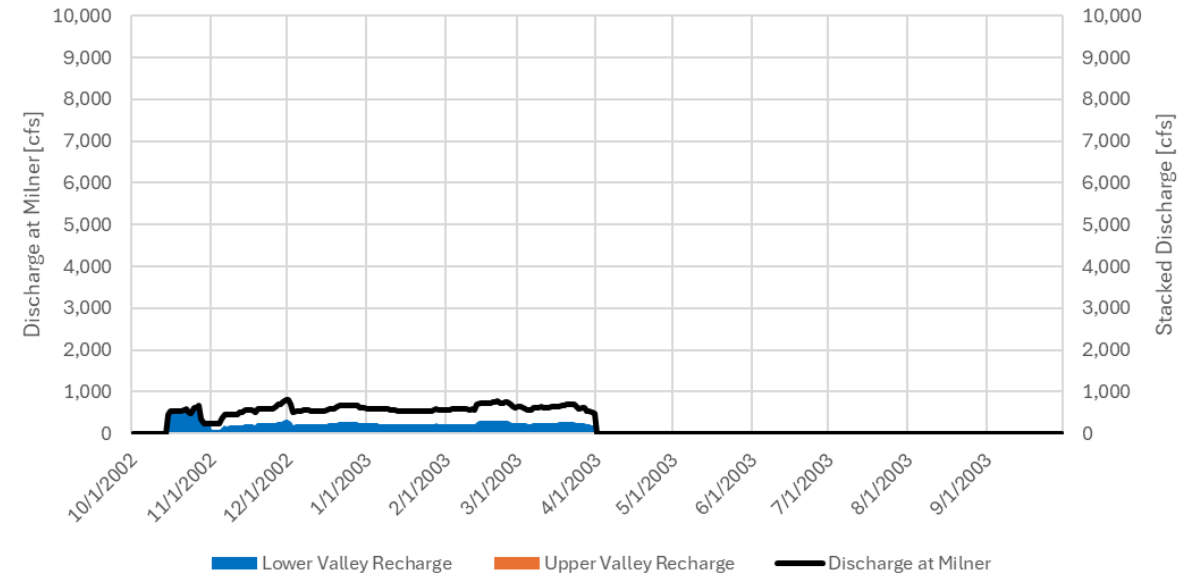
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 542,251 ac-ft 15-year average

Recharge = 192,923 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

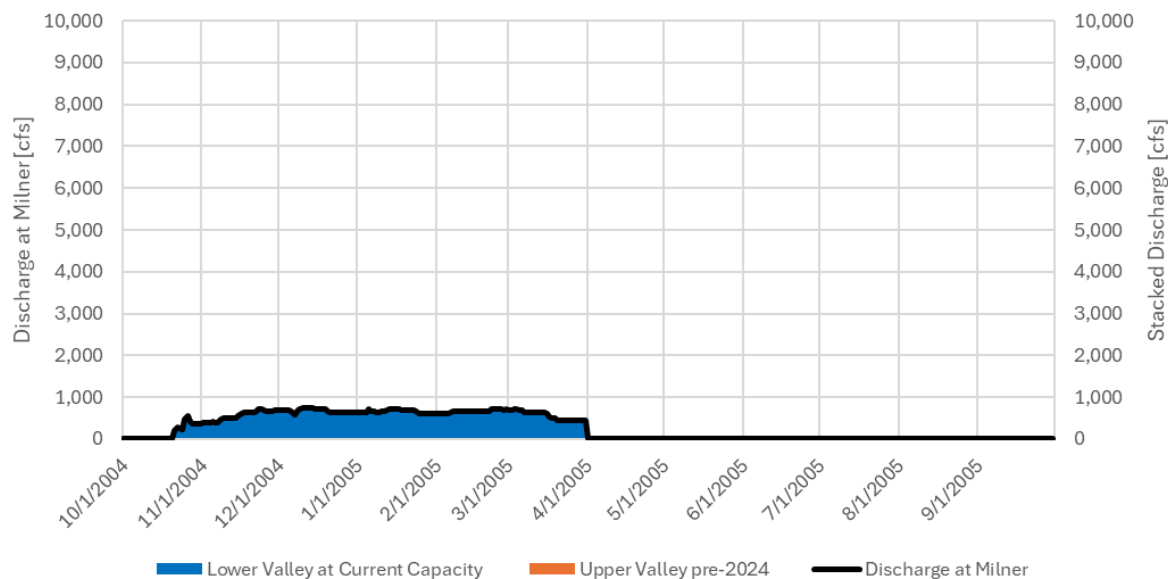


Condition 4: 374,213 ac-ft 15-year average

Recharge = 86,934 ac-ft

Impact of Conditions on 2004

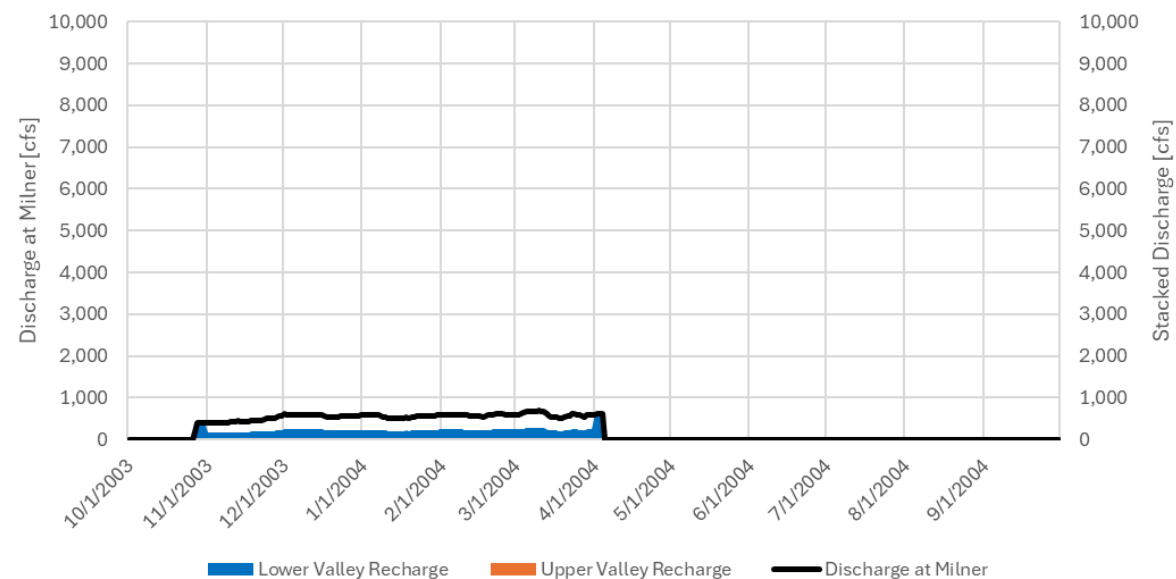
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 536,323 ac-ft 15-year average

Recharge = 173,074 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

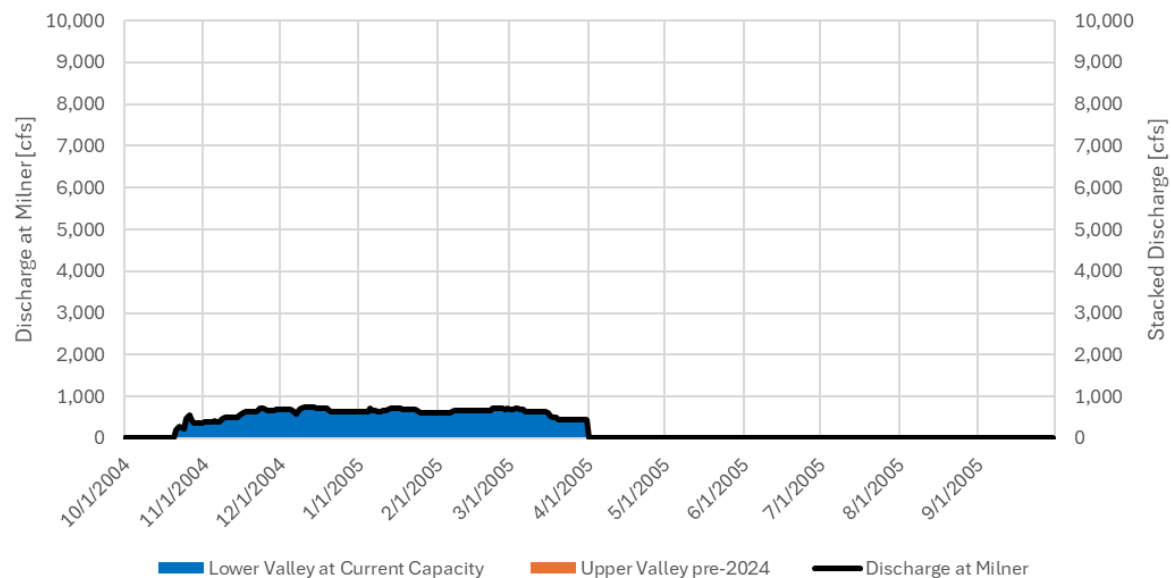


Condition 4: 369,191 ac-ft 15-year average

Recharge = 74,300 ac-ft

Impact of Conditions on 2005

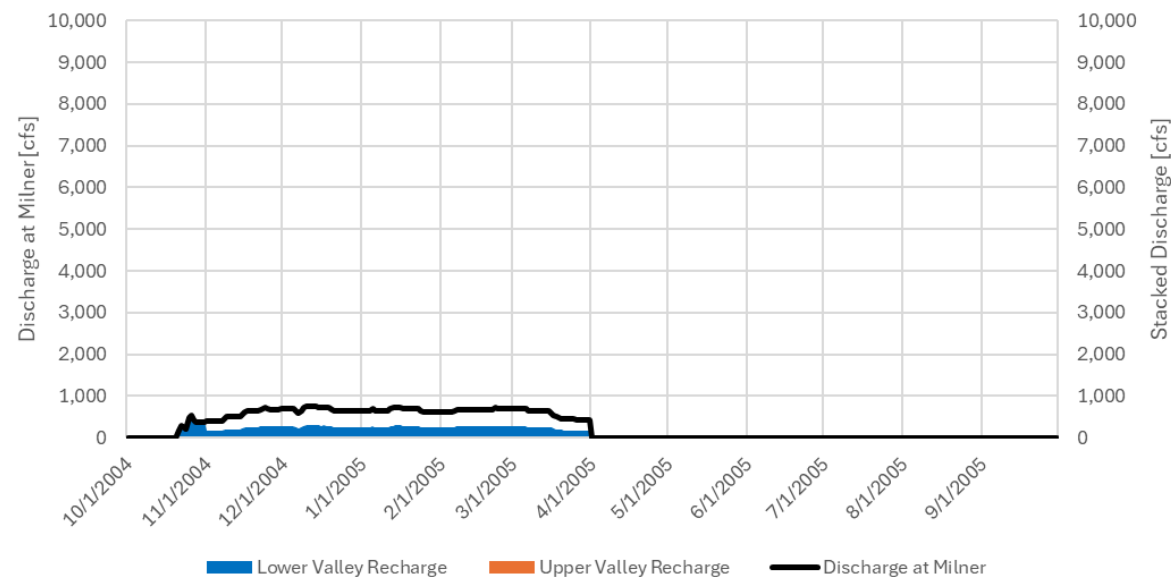
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 532,594 ac-ft 15-year average

Recharge = 194,778 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

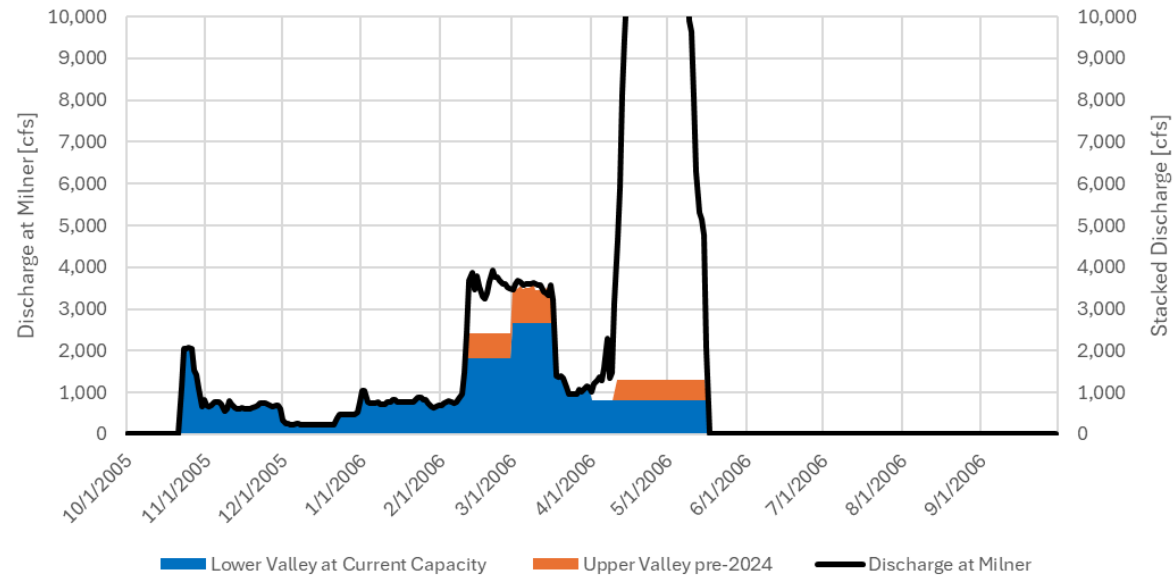


Condition 4: 367,037 ac-ft 15-year average

Recharge = 82,526 ac-ft

Impact of Conditions on 2006

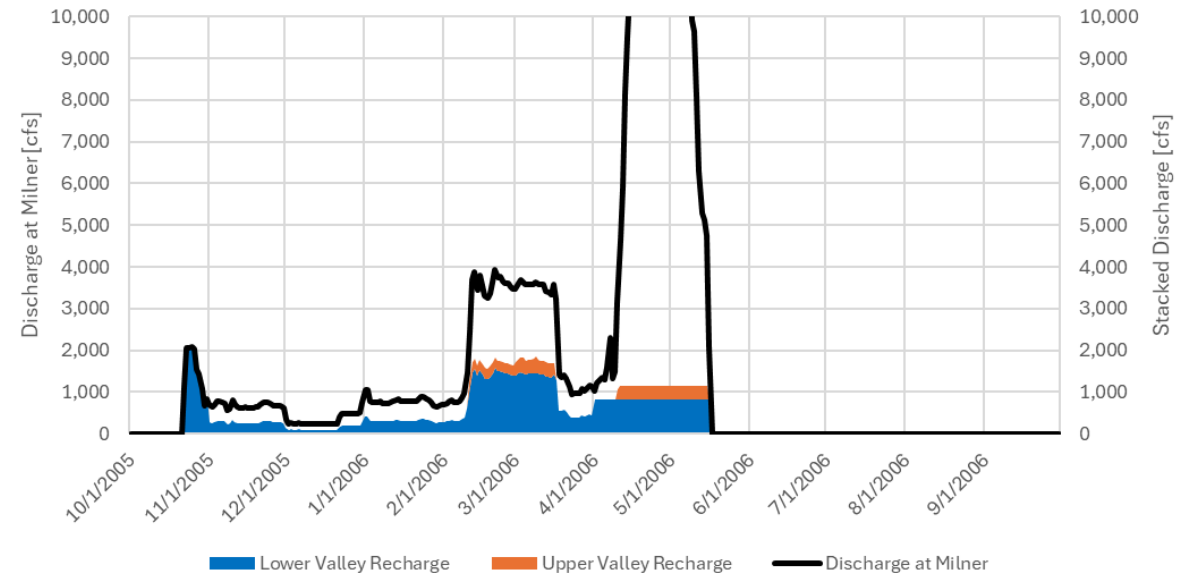
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 527,393 ac-ft 15-year average

Recharge = 497,976 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

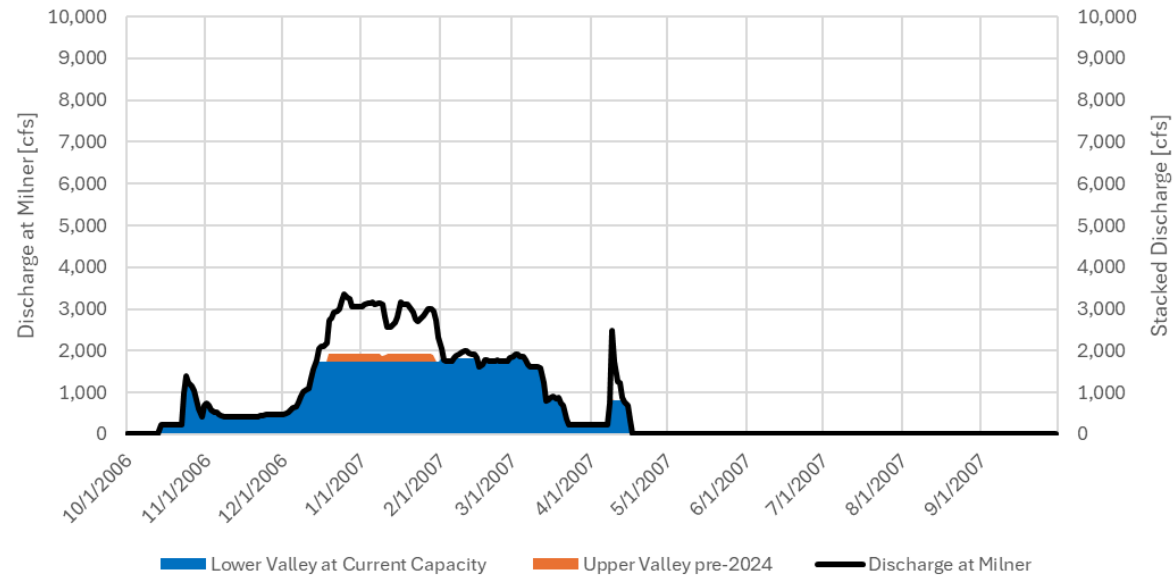


Condition 4: 364,908 ac-ft 15-year average

Recharge = 306,740 ac-ft

Impact of Conditions on 2007

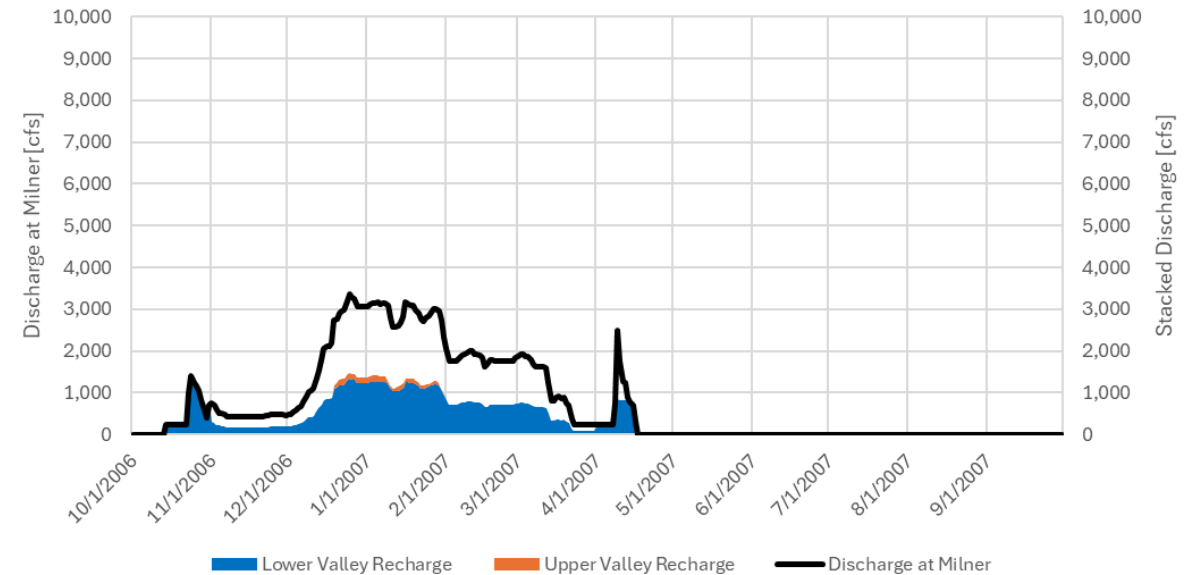
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 547,265 ac-ft 15-year average

Recharge = 431,981 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

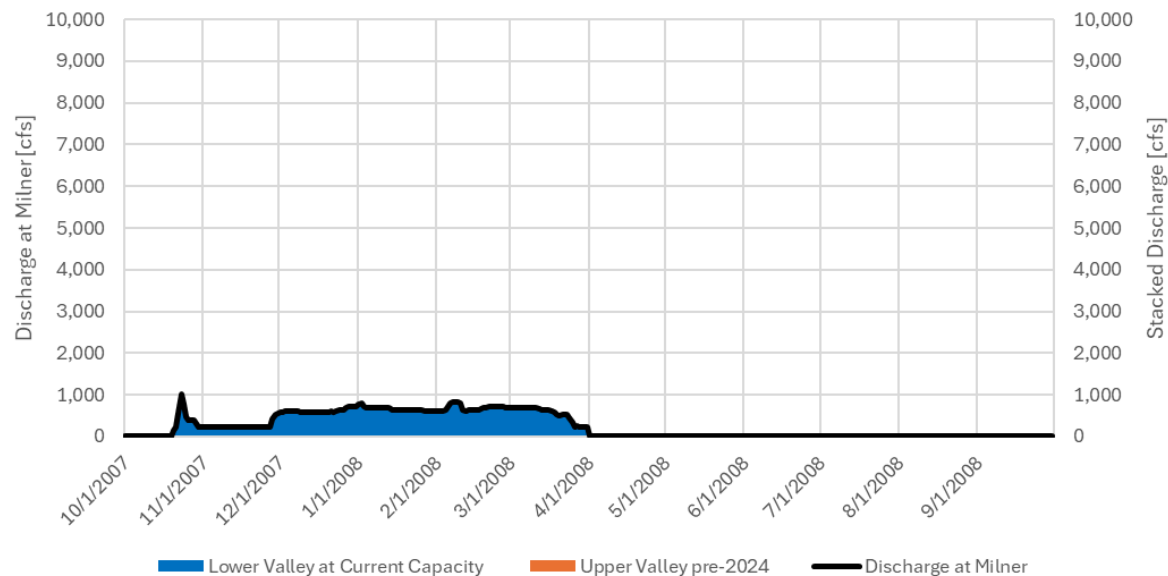


Condition 4: 380,026 ac-ft 15-year average

Recharge = 242,443 ac-ft

Impact of Conditions on 2008

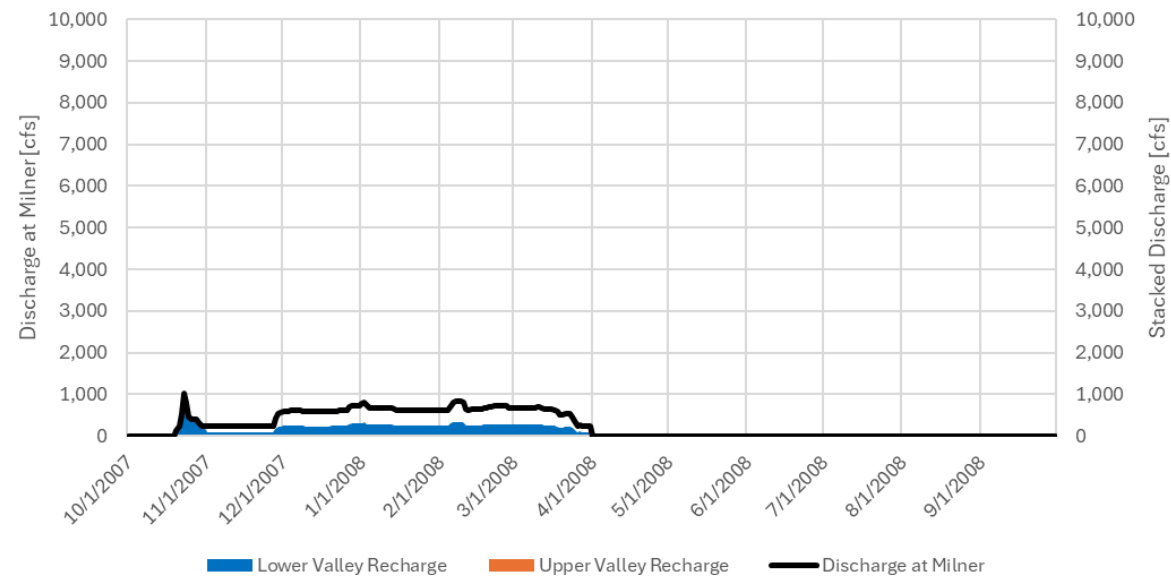
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 559,363 ac-ft 15-year average

Recharge = 174,915 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

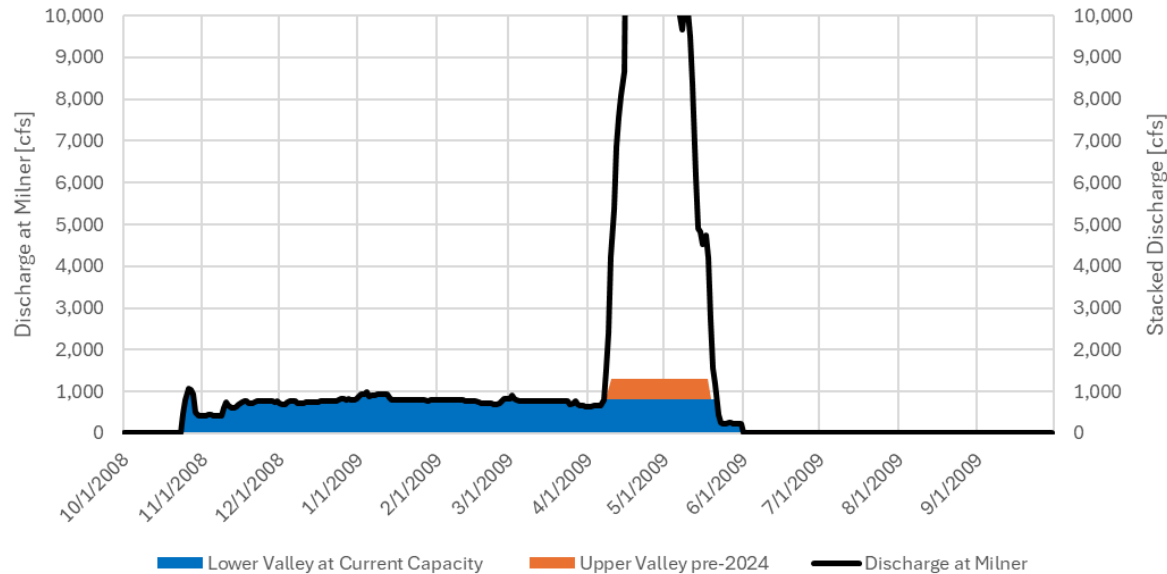


Condition 4: 388,819 ac-ft 15-year average

Recharge = 76,045 ac-ft

Impact of Conditions on 2009

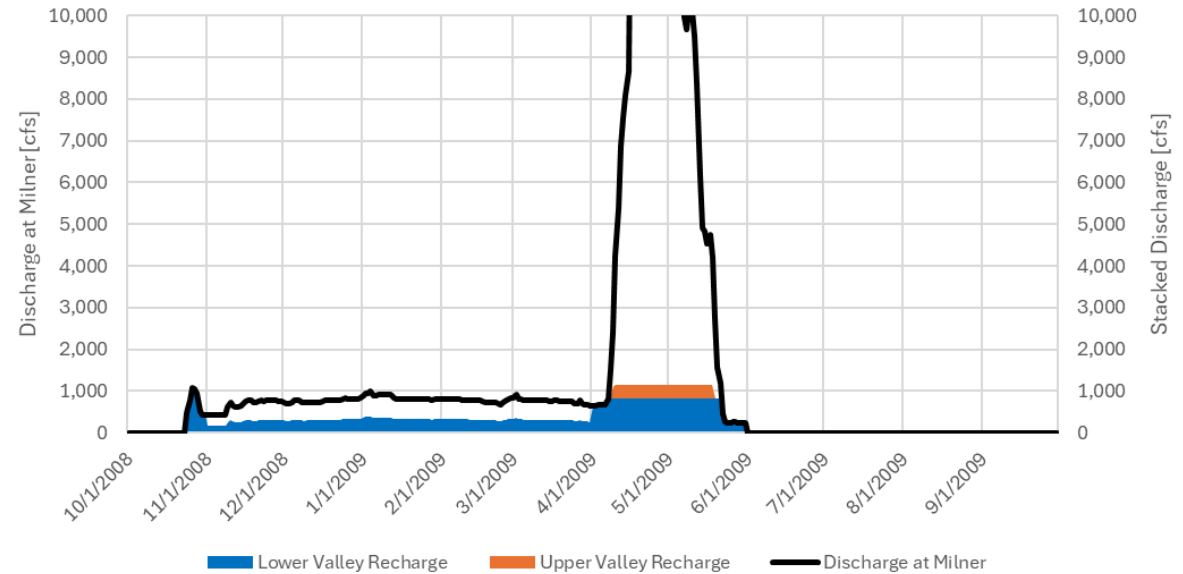
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 550,936 ac-ft 15-year average

Recharge = 362,067 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

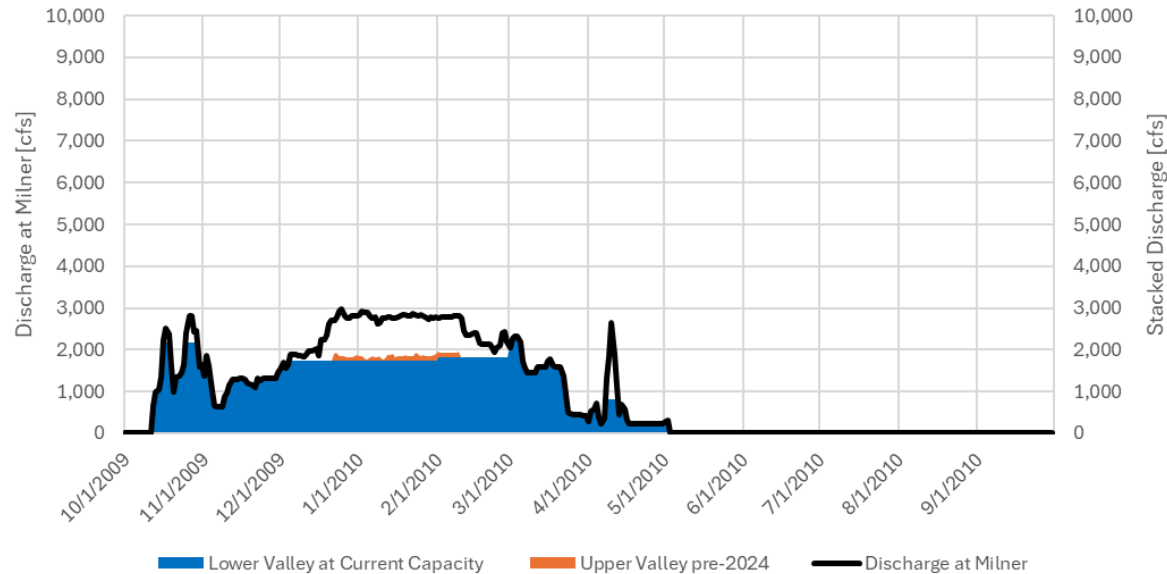


Condition 4: 381,703 ac-ft 15-year average

Recharge = 212,748 ac-ft

Impact of Conditions on 2010

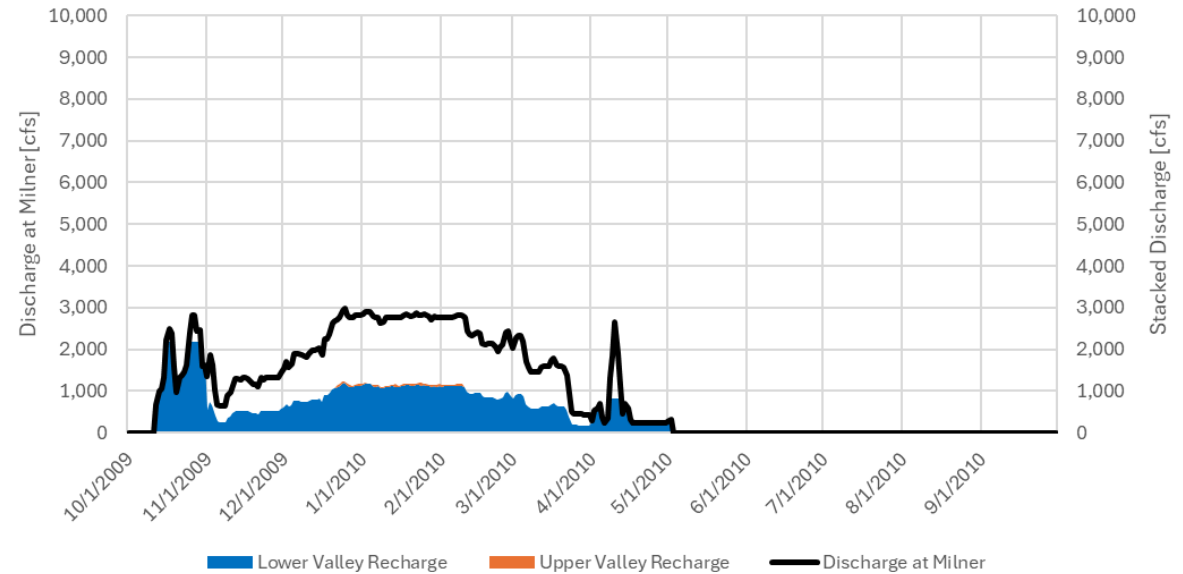
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 536,492 ac-ft 15-year average

Recharge = 571,413 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

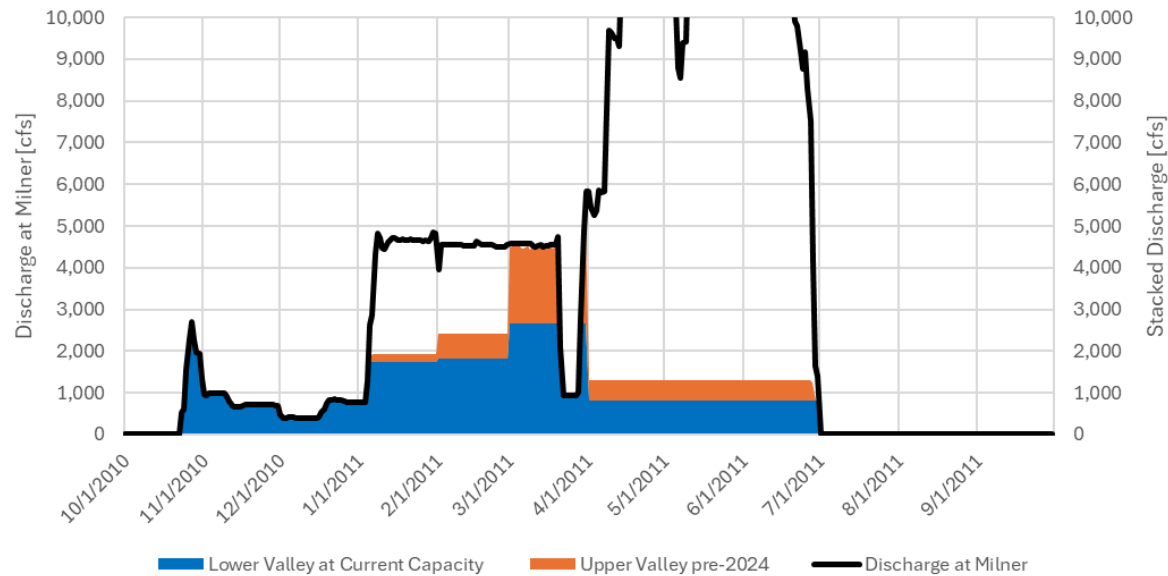


Condition 4: 375,176 ac-ft 15-year average

Recharge = 335,045 ac-ft

Impact of Conditions on 2011

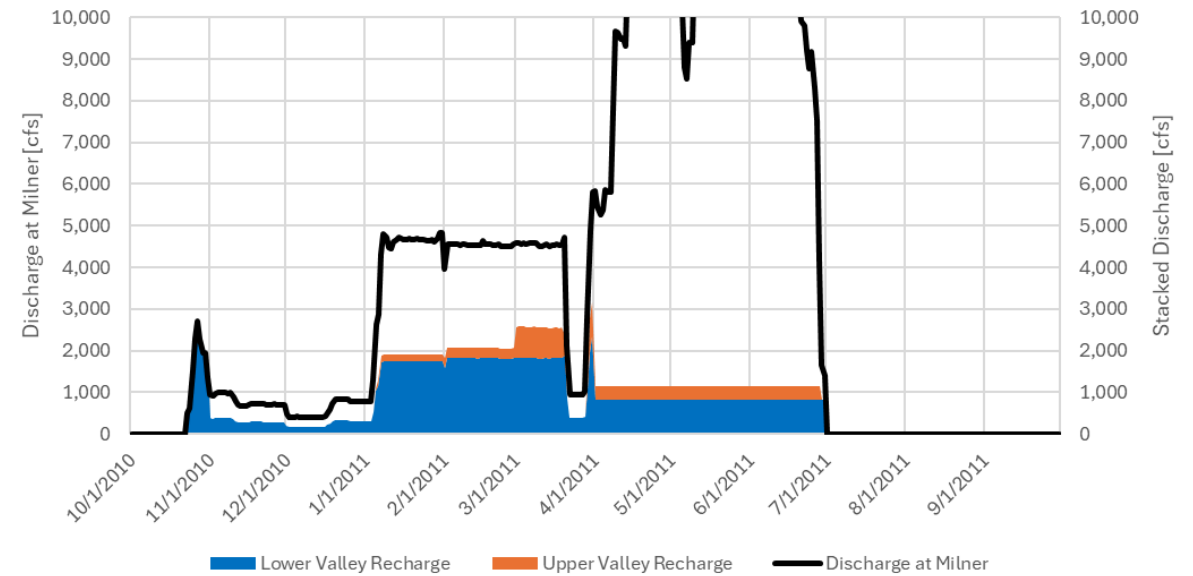
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 553,006 ac-ft 15-year average

Recharge = 811,151 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

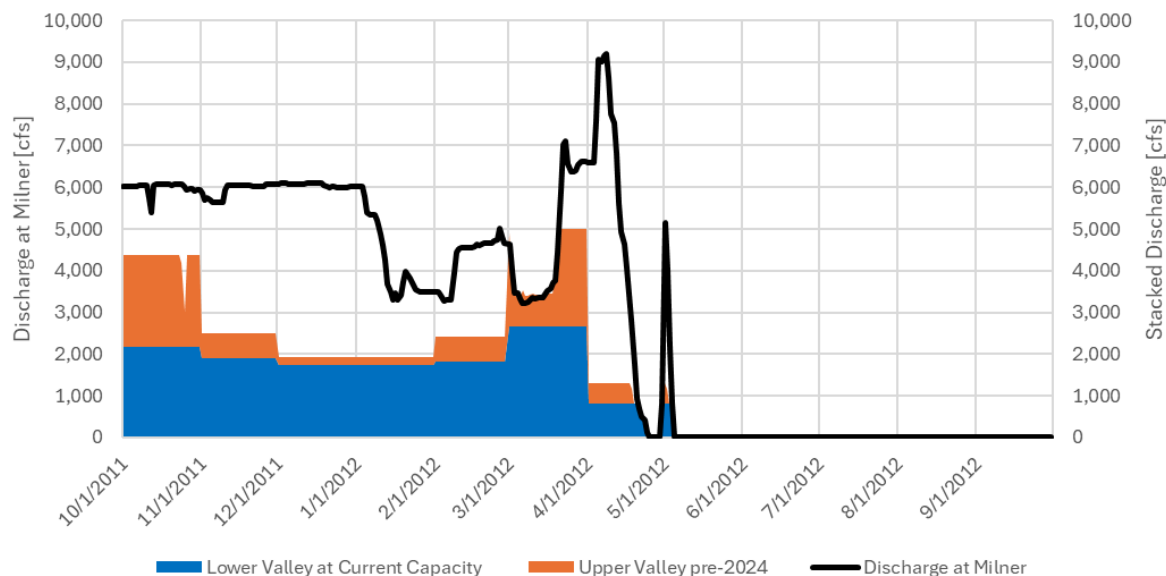


Condition 4: 383,323 ac-ft 15-year average

Recharge = 603,319 ac-ft

Impact of Conditions on 2012

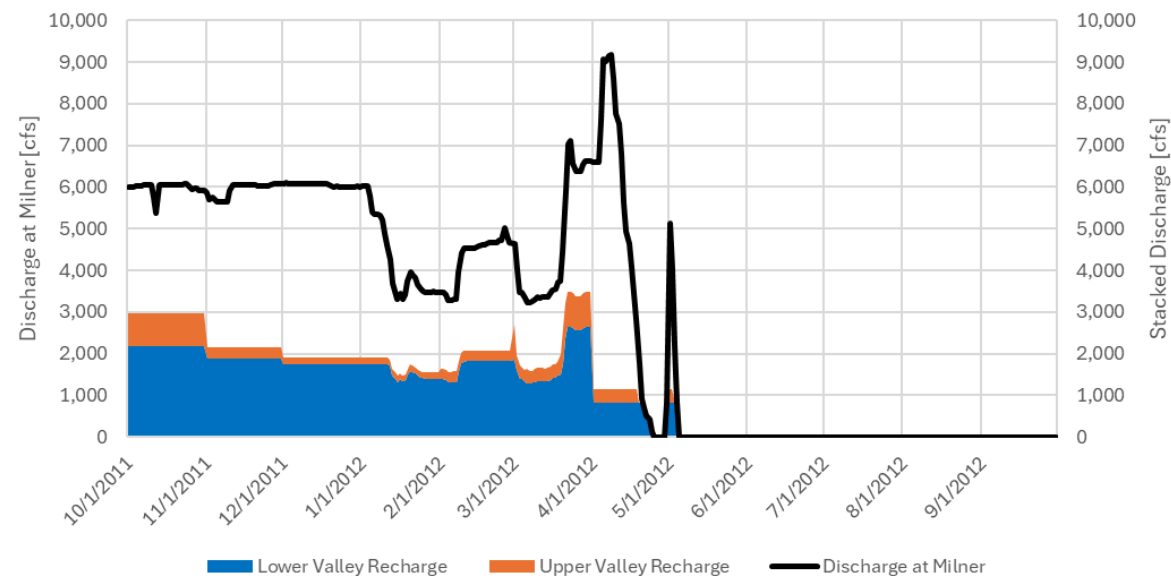
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 537,926 ac-ft 15-year average

Recharge = 1,101,064 ac-ft

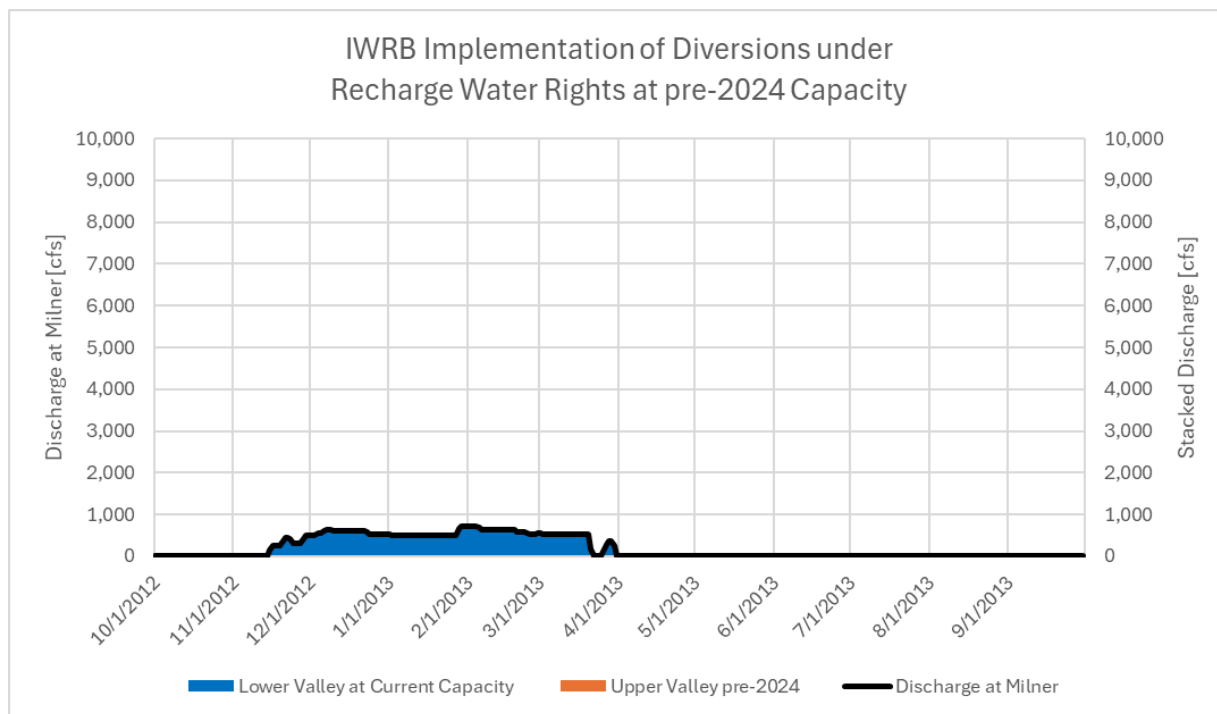
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 4: 370,246 ac-ft 15-year average

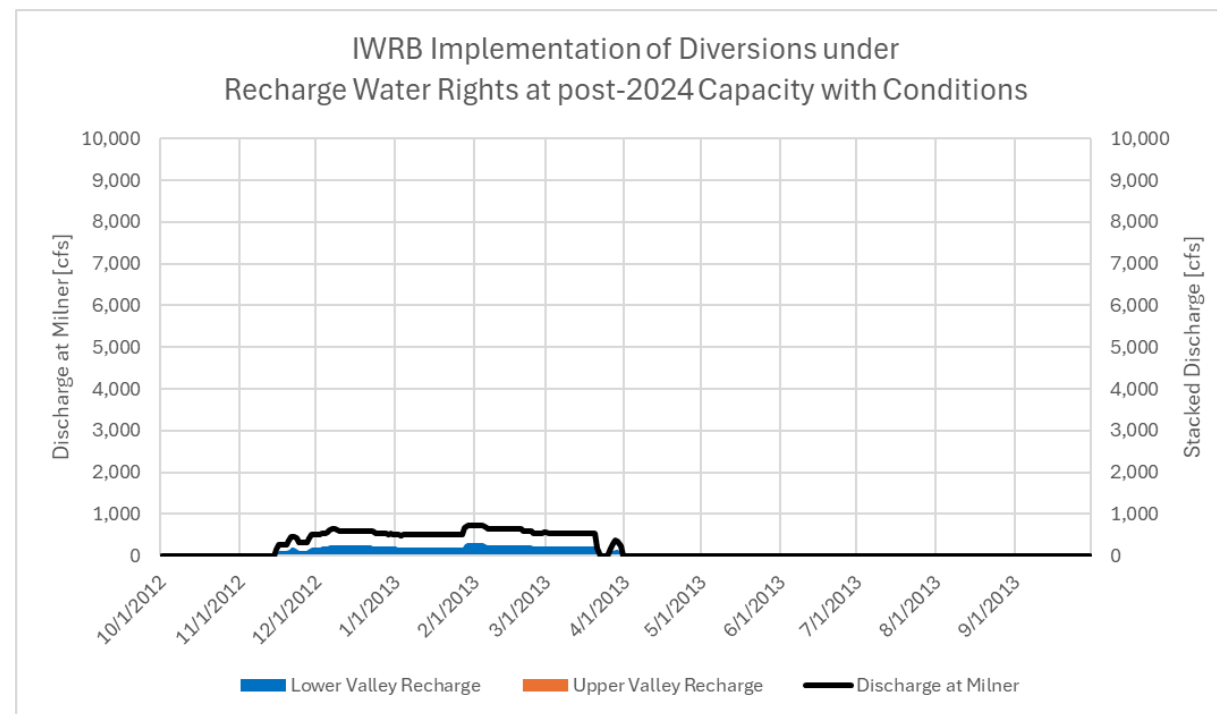
Recharge = 836,948 ac-ft

Impact of Conditions on 2013



Condition 4: 542,263 ac-ft 15-year average

Recharge = 137,863 ac-ft

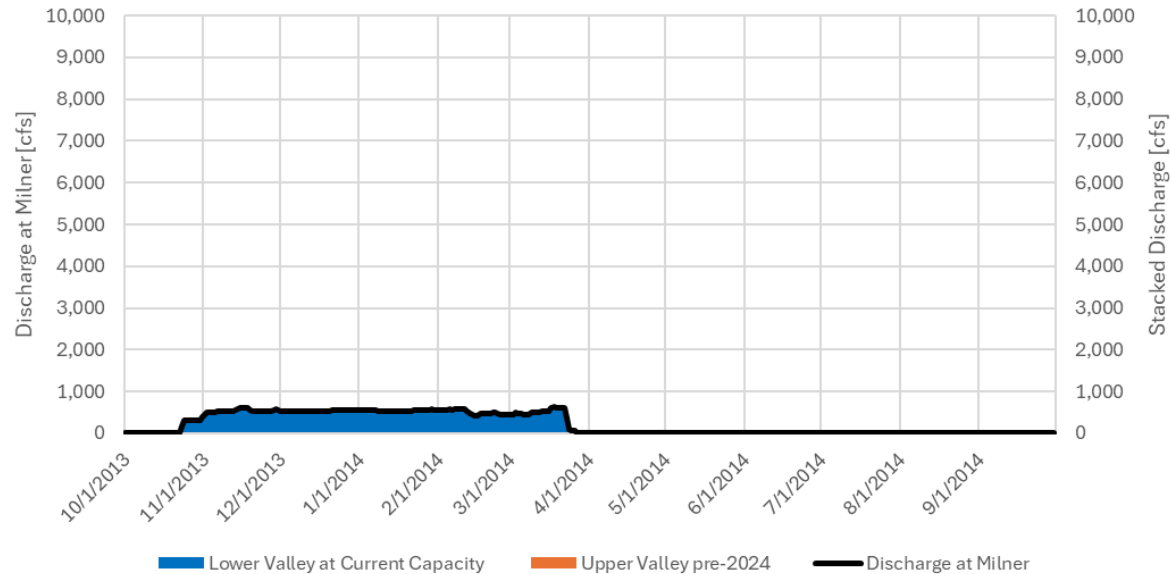


Condition 4: 372,084 ac-ft 15-year average

Recharge = 55,145 ac-ft

Impact of Conditions on 2014

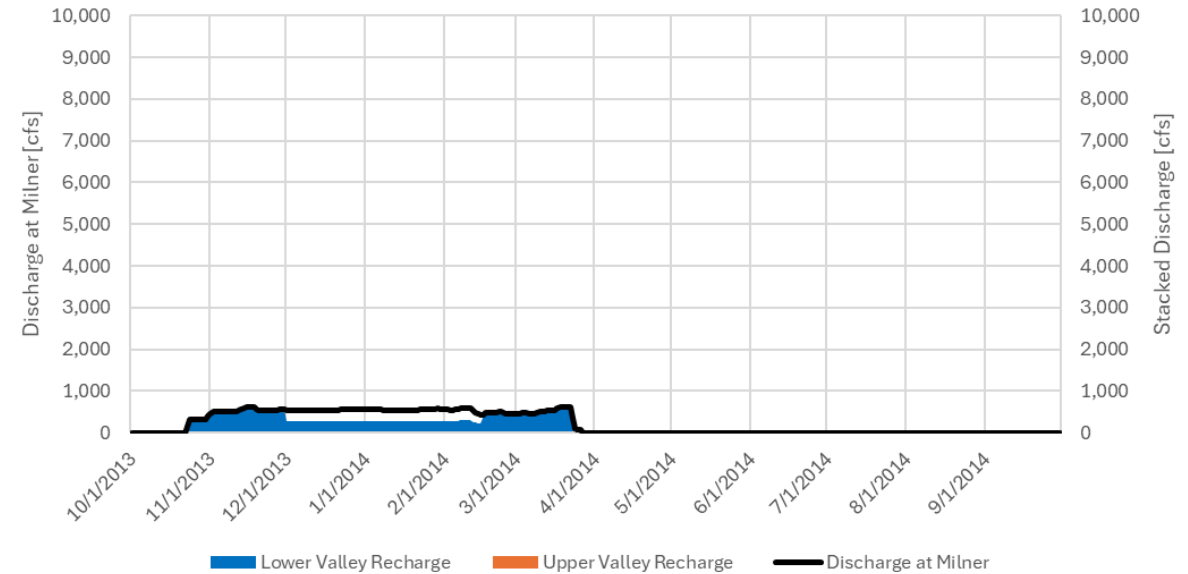
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 464,757 ac-ft 15-year average

Recharge = 156,701 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

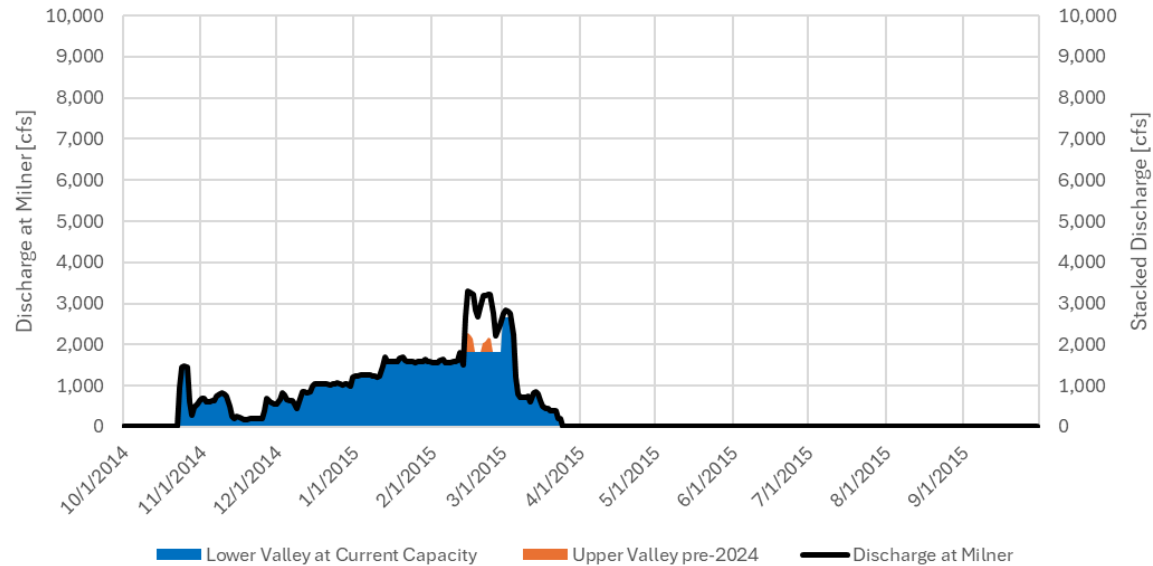


Condition 2: 307,054 ac-ft 15-year average

Recharge = 115,022 ac-ft

Impact of Conditions on 2015

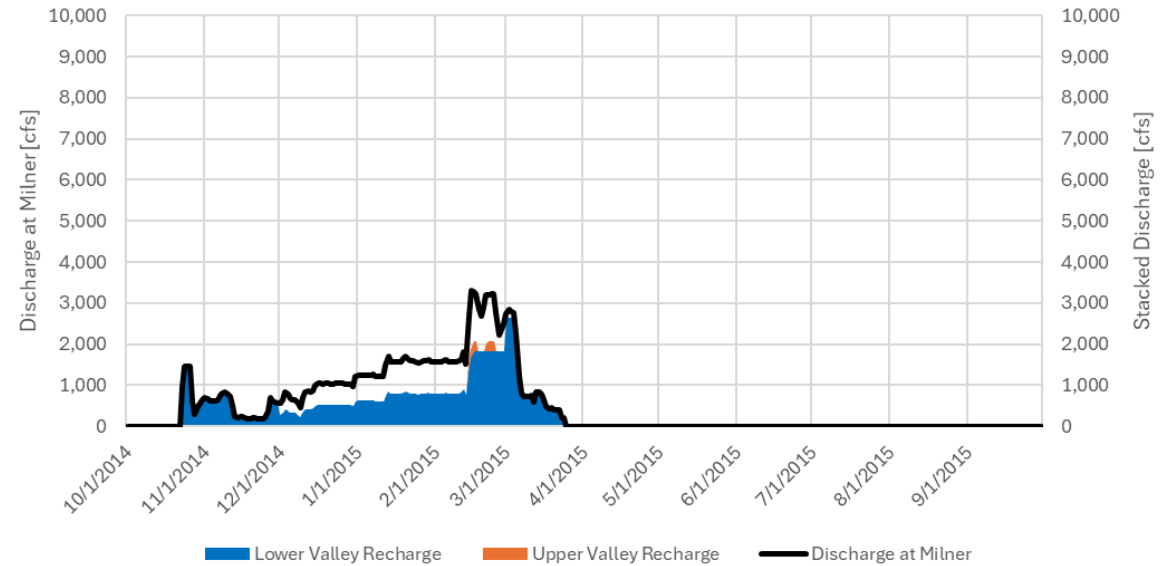
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 404,564 ac-ft 15-year average

Recharge = 337,210 ac-ft

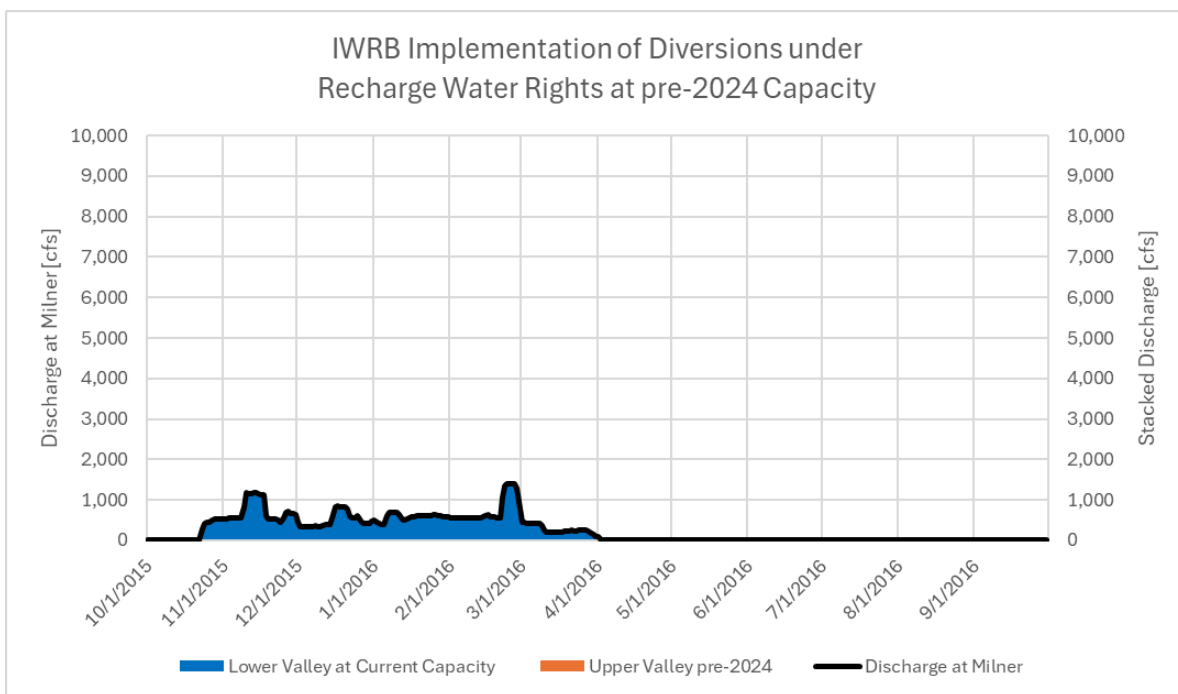
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 2: 256,730 ac-ft 15-year average

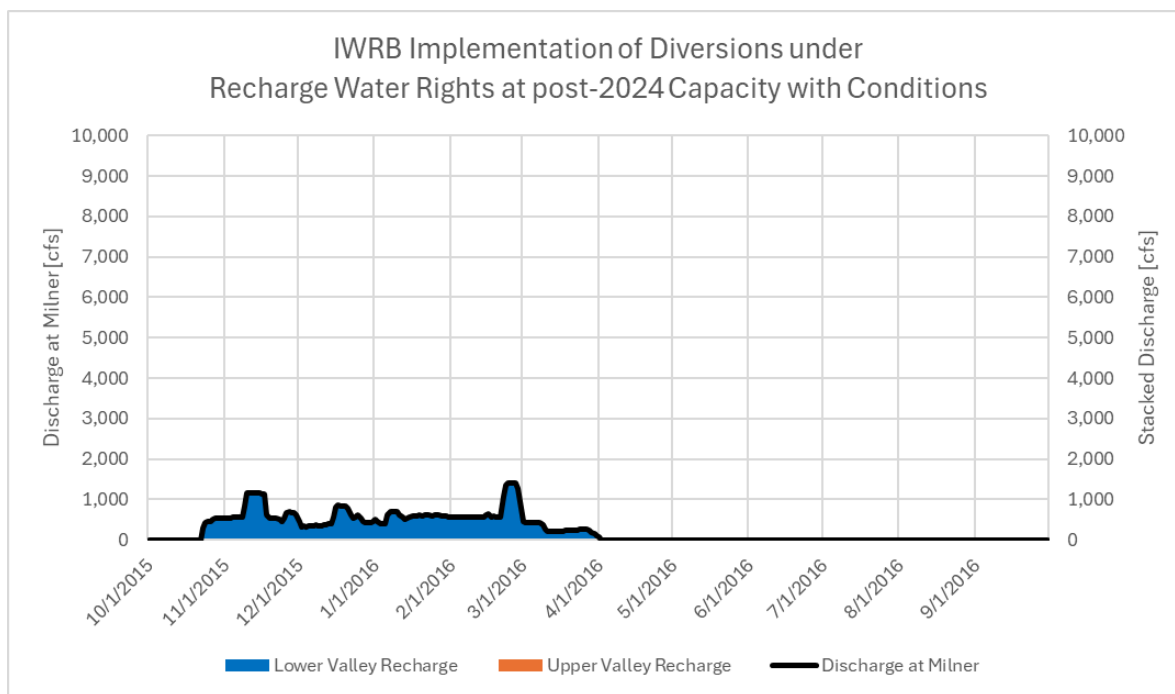
Recharge = 241,194 ac-ft

Impact of Conditions on 2016



Condition 4: 370,649 ac-ft 15-year average

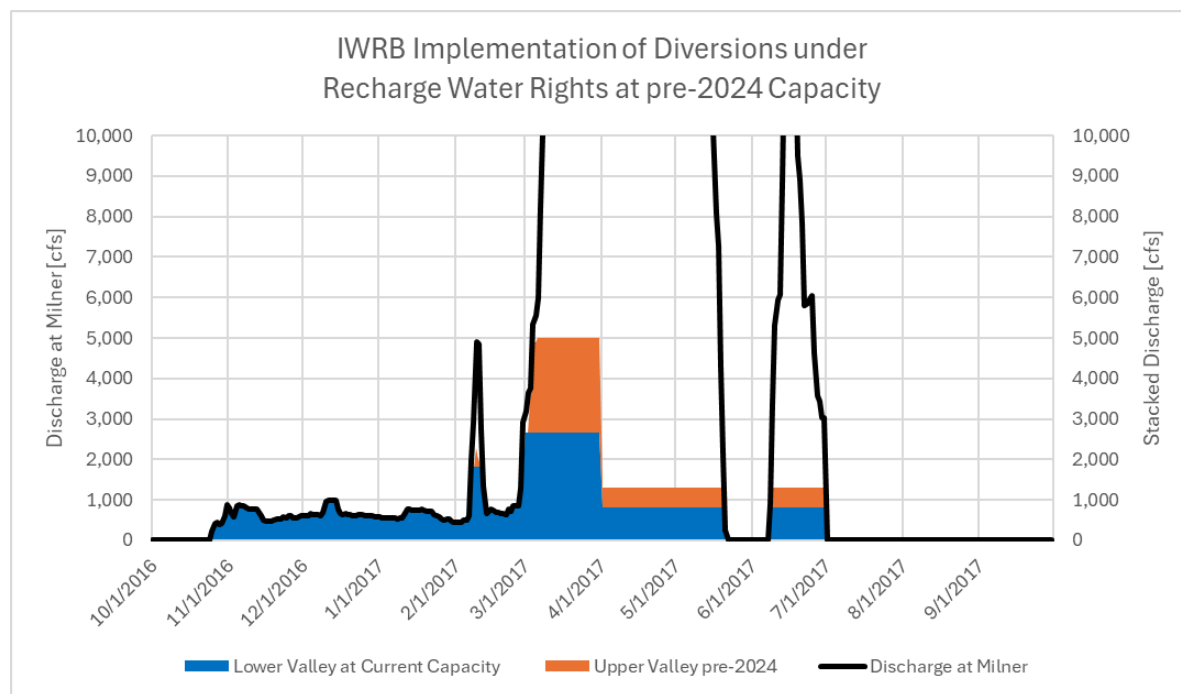
Recharge = 177,776 ac-ft



Condition 1: 230,211 ac-ft 15-year average

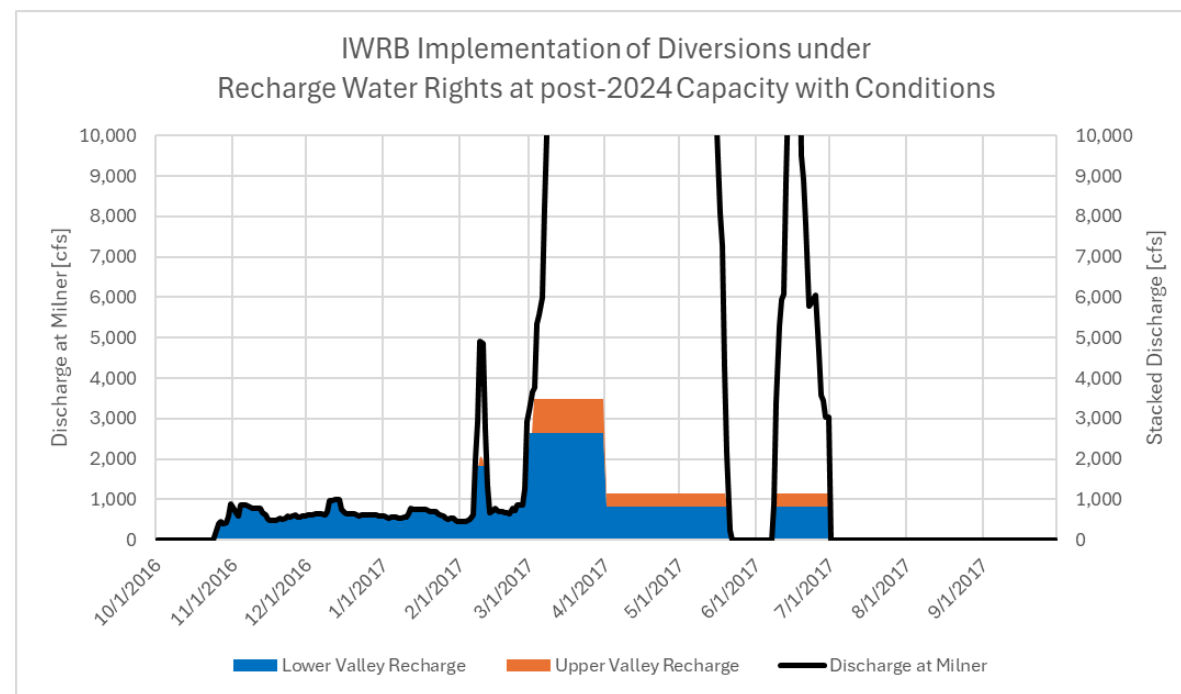
Recharge = 177,776 ac-ft

Impact of Conditions on 2017



Condition 4: 368,214 ac-ft 15-year average

Recharge = 662,234 ac-ft

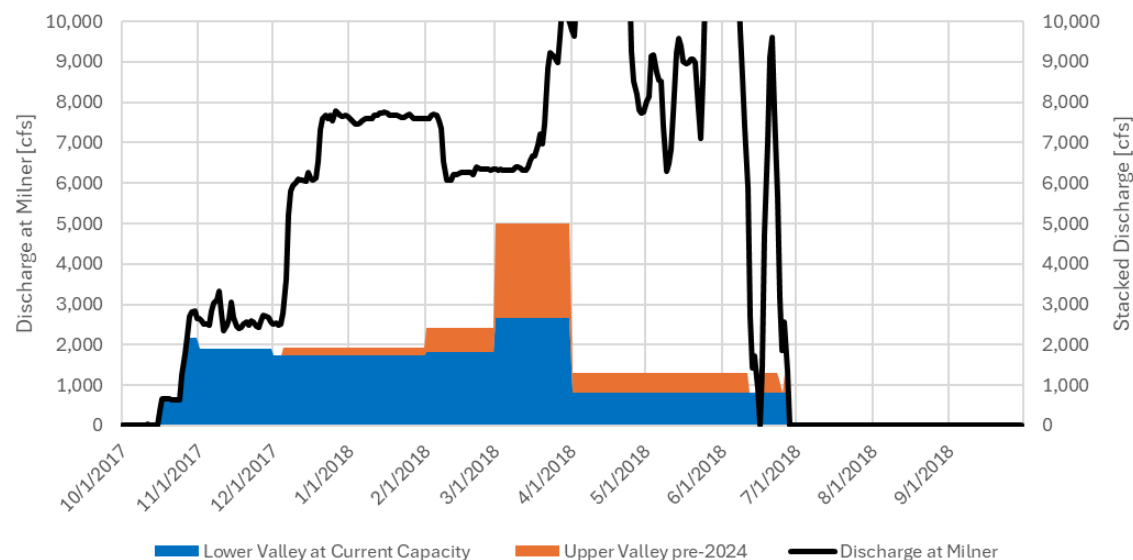


Condition 1: 235,581 ac-ft 15-year average

Recharge = 553,237 ac-ft

Impact of Conditions on 2018

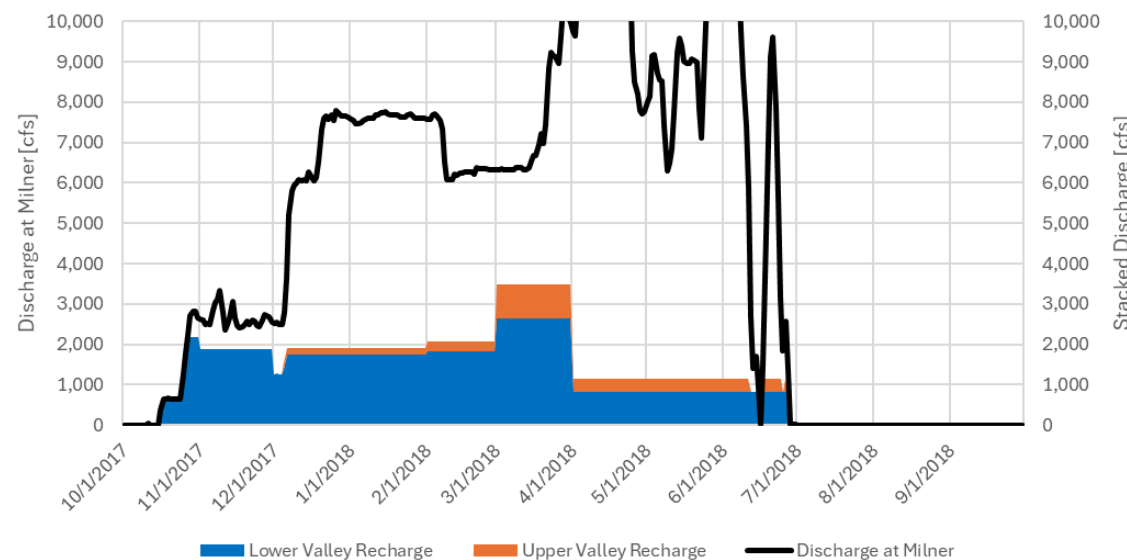
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 398,875 ac-ft 15-year average

Recharge = 1,047,429 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

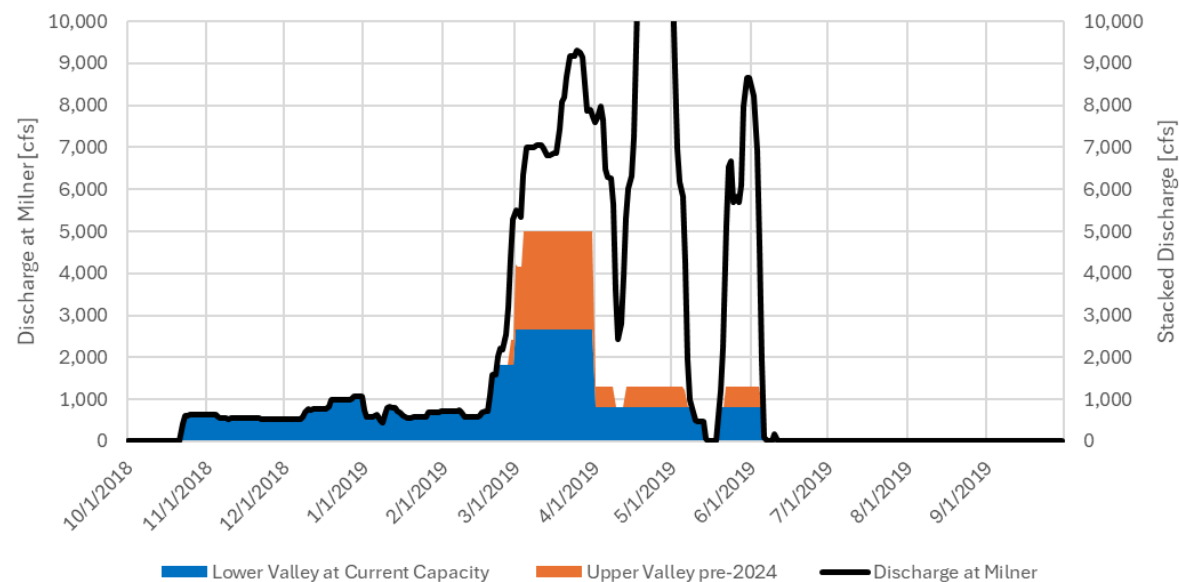


Condition 2: 266,628 ac-ft 15-year average

Recharge = 899,498 ac-ft

Impact of Conditions on 2019

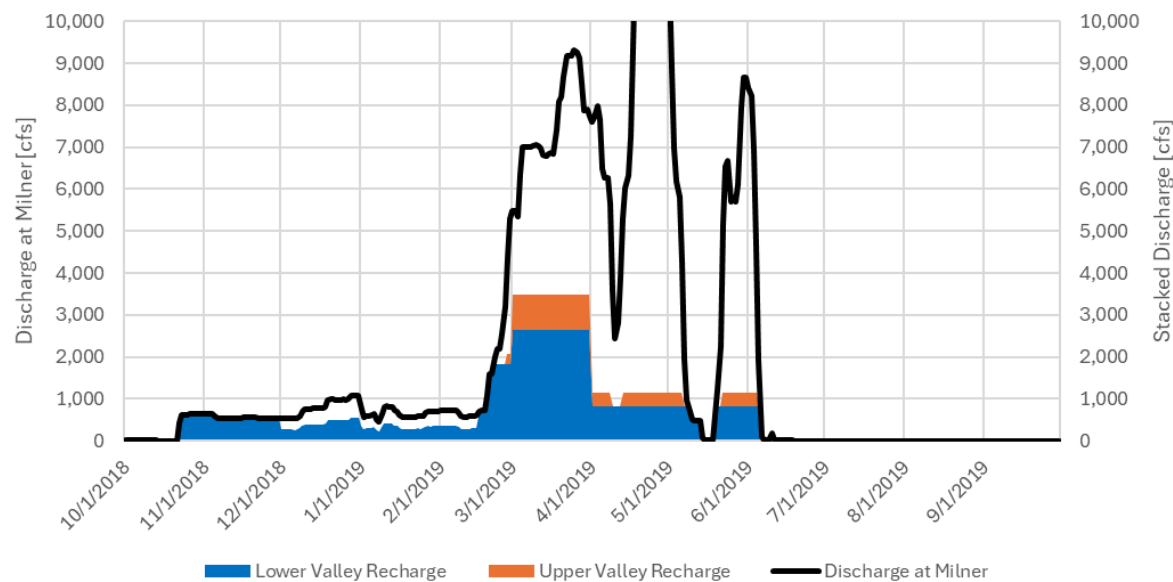
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 455,842 ac-ft 15-year average

Recharge = 637,681 ac-ft

IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions

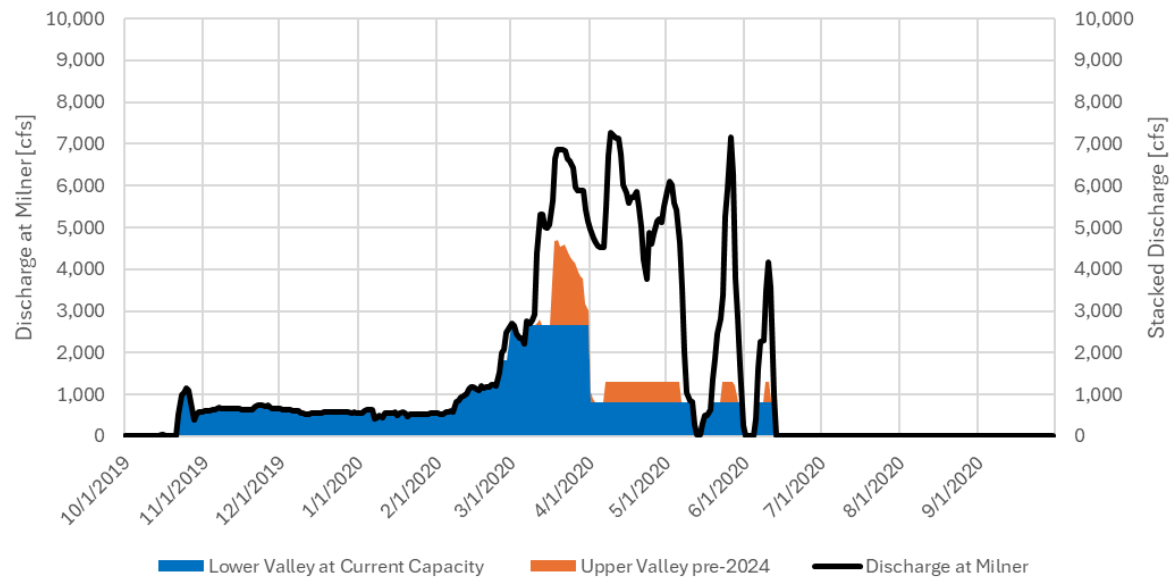


Condition 2: 320,735 ac-ft 15-year average

Recharge = 478,333 ac-ft

Impact of Conditions on 2020

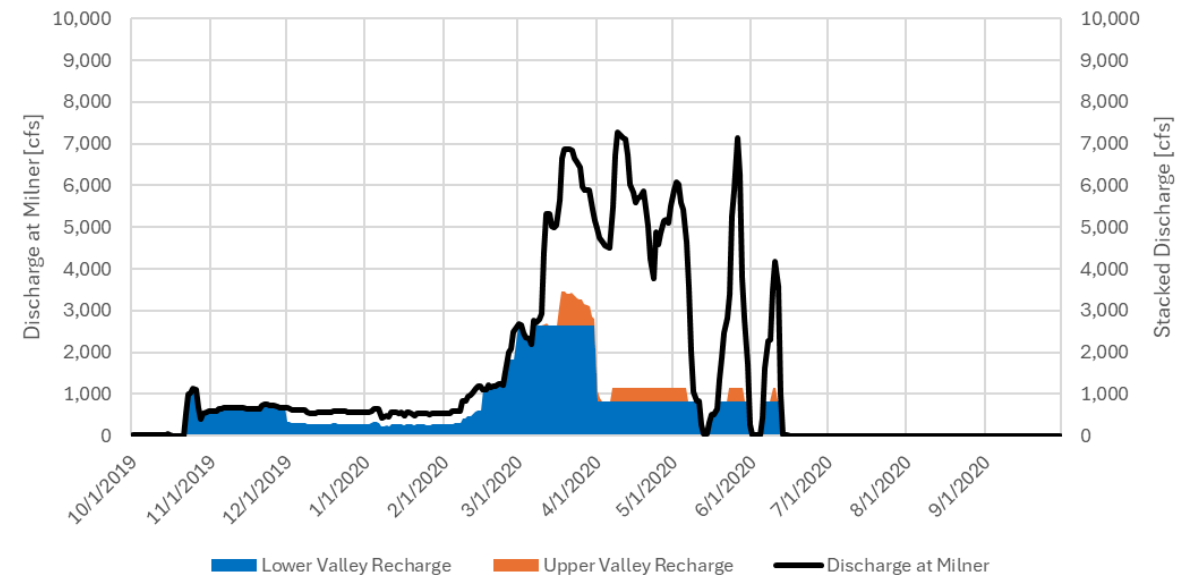
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 486,816 ac-ft 15-year average

Recharge = 527,408 ac-ft

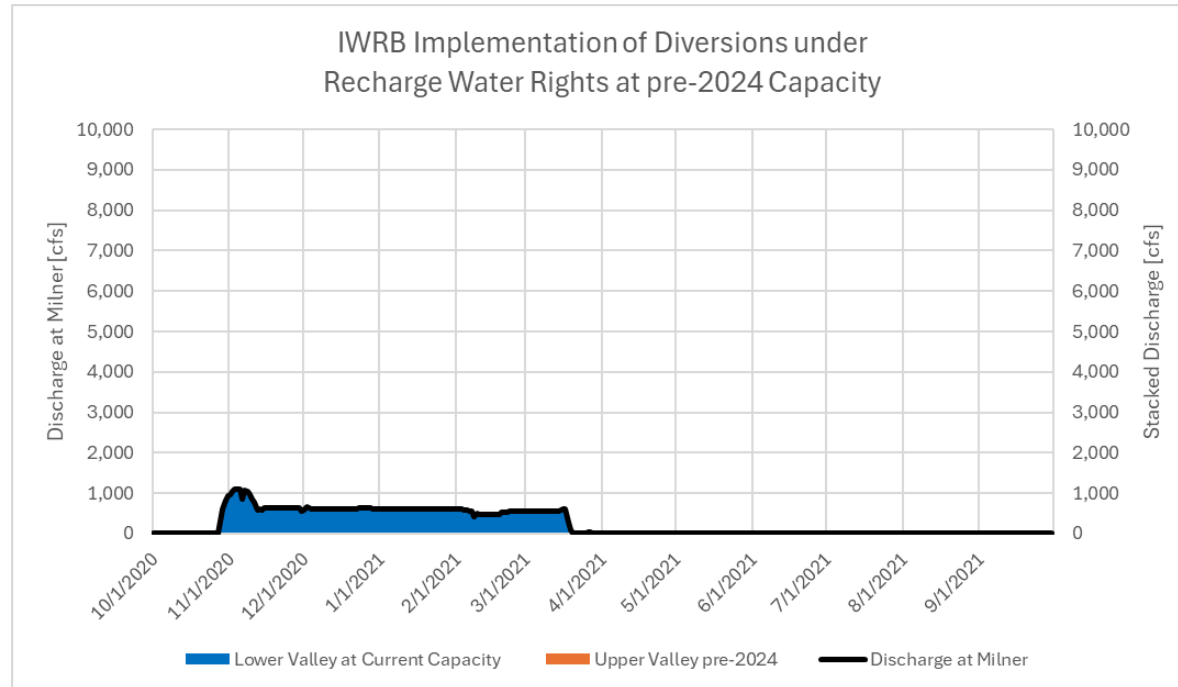
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 2: 347,735 ac-ft 15-year average

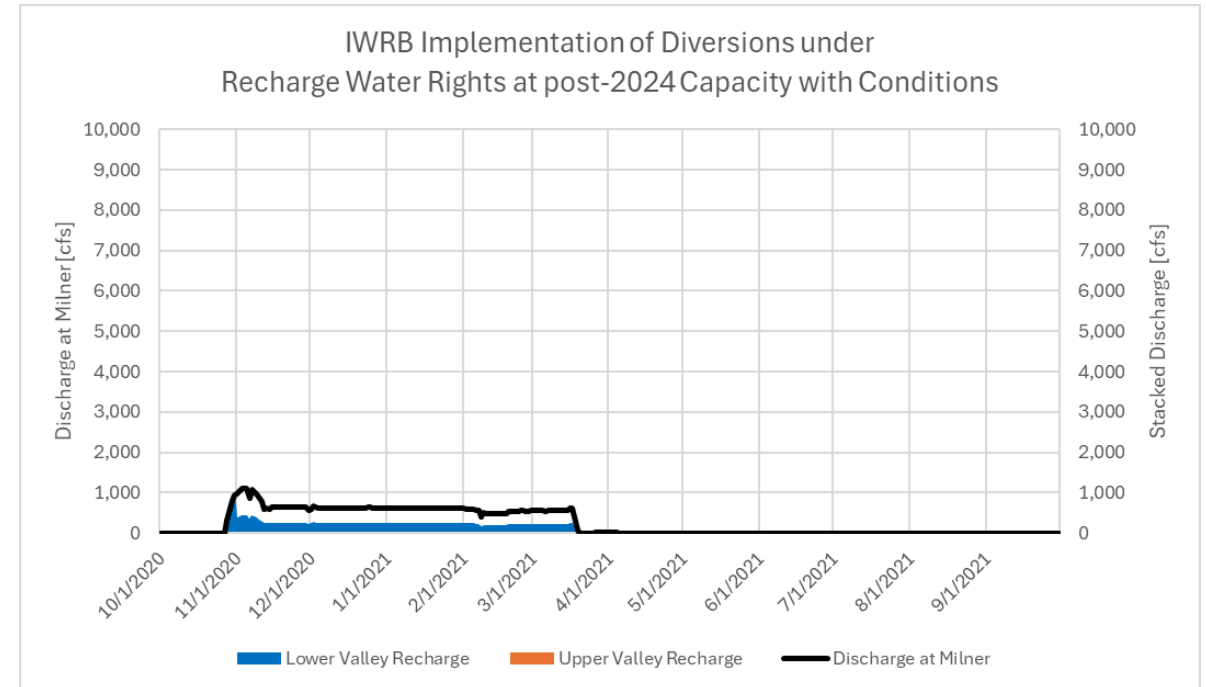
Recharge = 442,059 ac-ft

Impact of Conditions on 2021



Condition 4: 508,991 ac-ft 15-year average

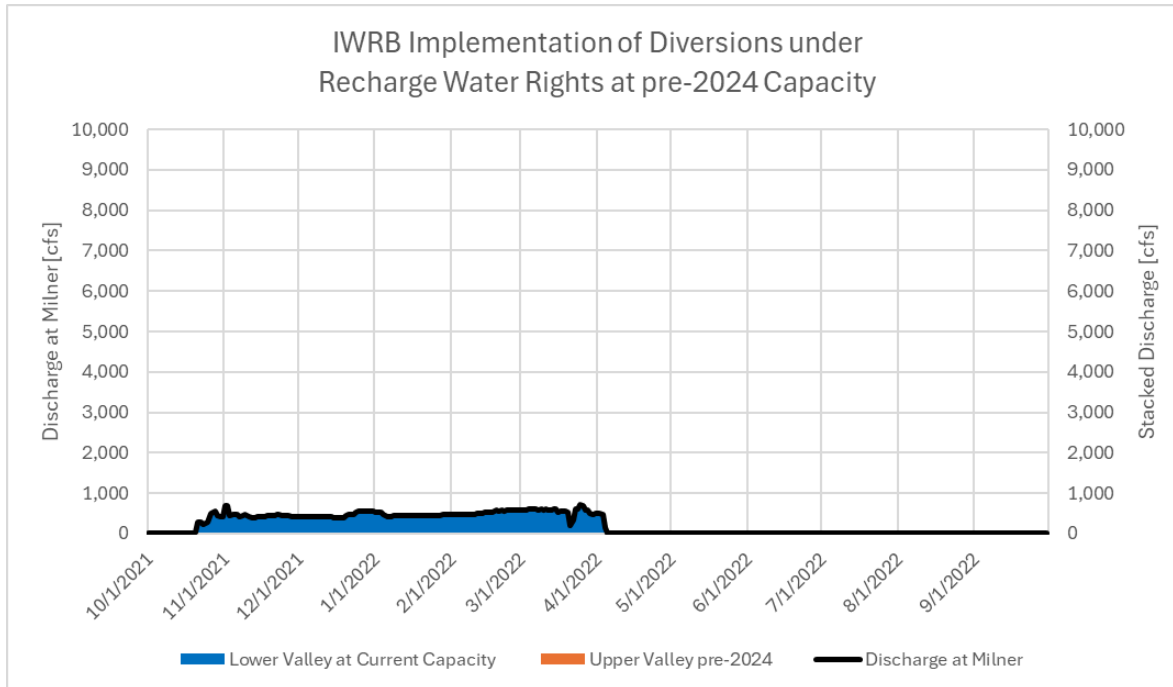
Recharge = 175,216 ac-ft



Condition 4: 371,704 ac-ft 15-year average

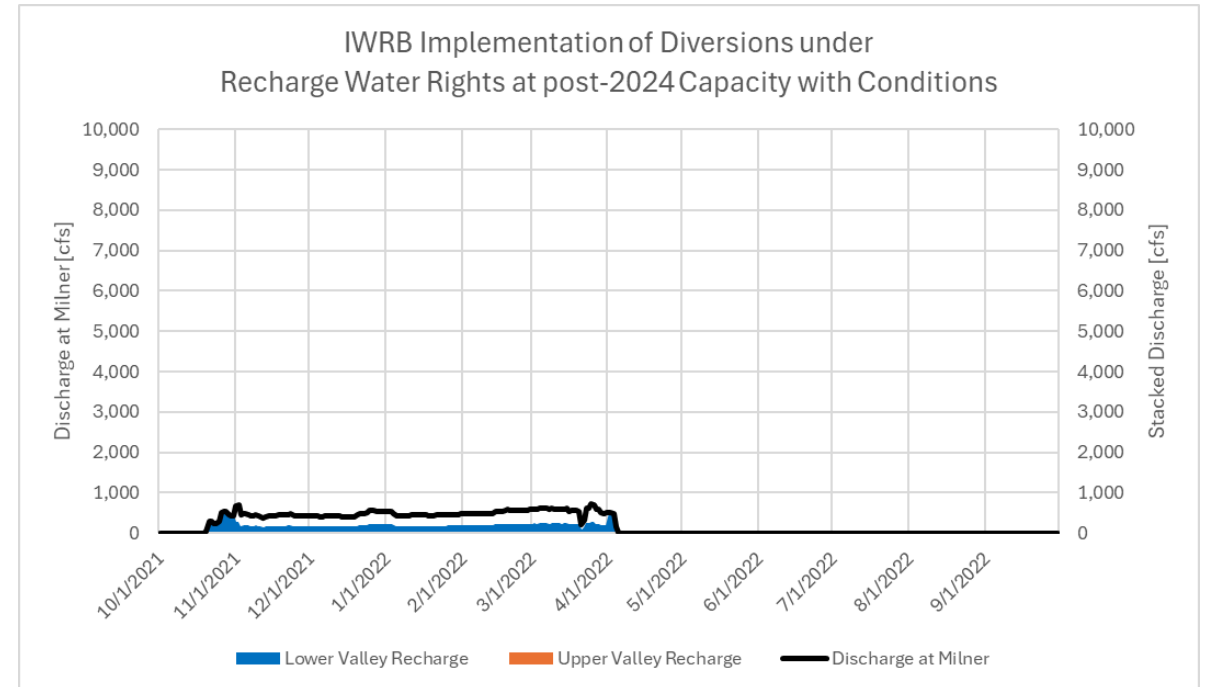
Recharge = 73,358 ac-ft

Impact of Conditions on 2022



Condition 4: 487,474 ac-ft 15-year average

Recharge = 157,776 ac-ft

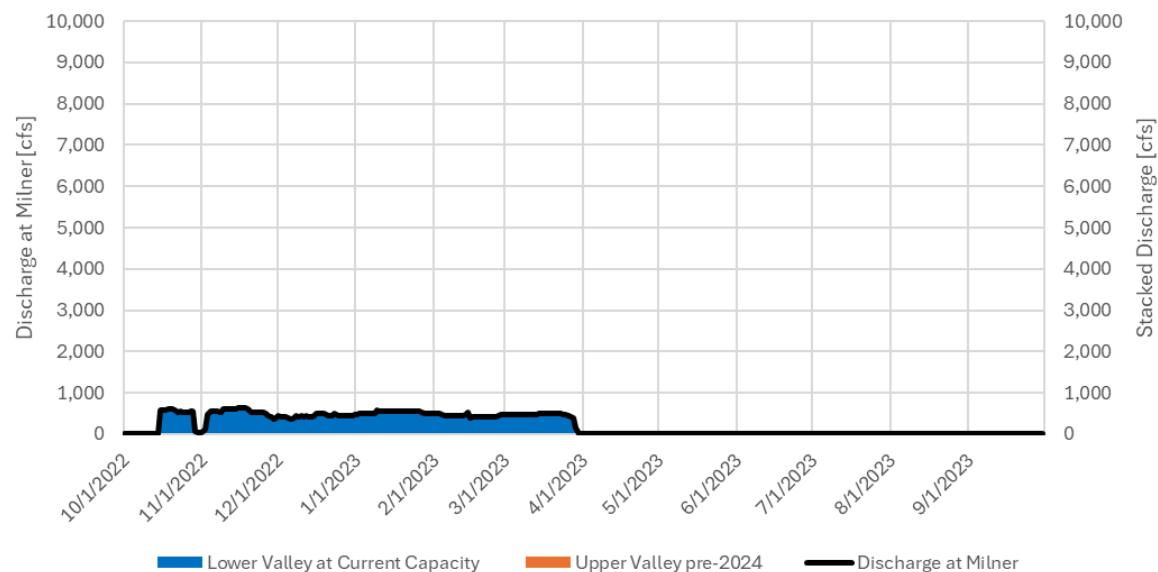


Condition 4: 356,145 ac-ft 15-year average

Recharge = 70,109 ac-ft

Impact of Conditions on 2023

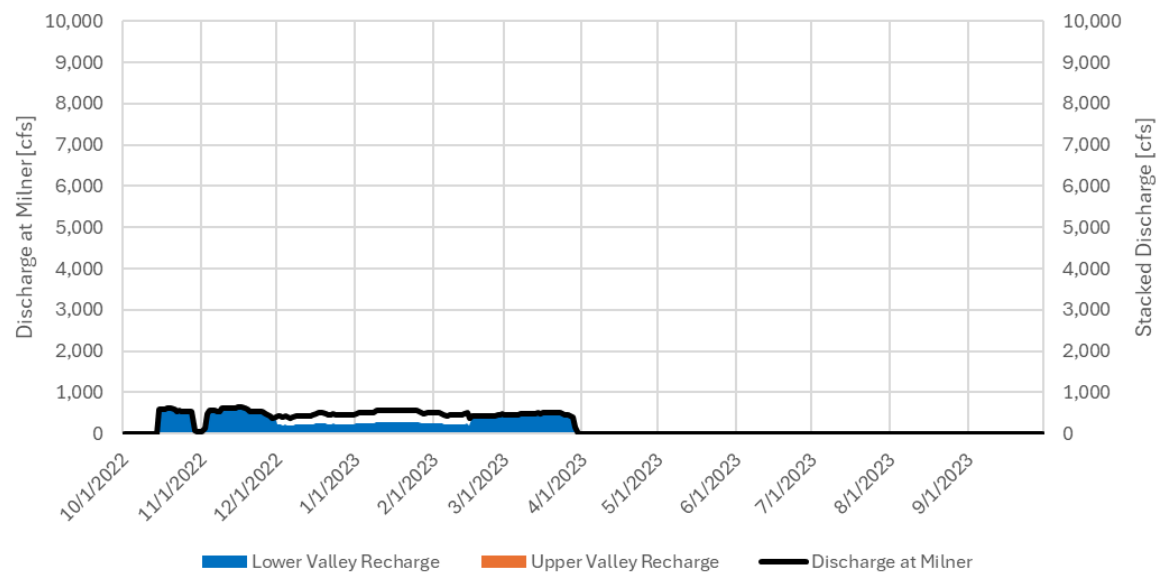
IWRB Implementation of Diversions under
Recharge Water Rights at pre-2024 Capacity



Condition 4: 487,474 ac-ft 15-year average

Recharge = 158,288 ac-ft

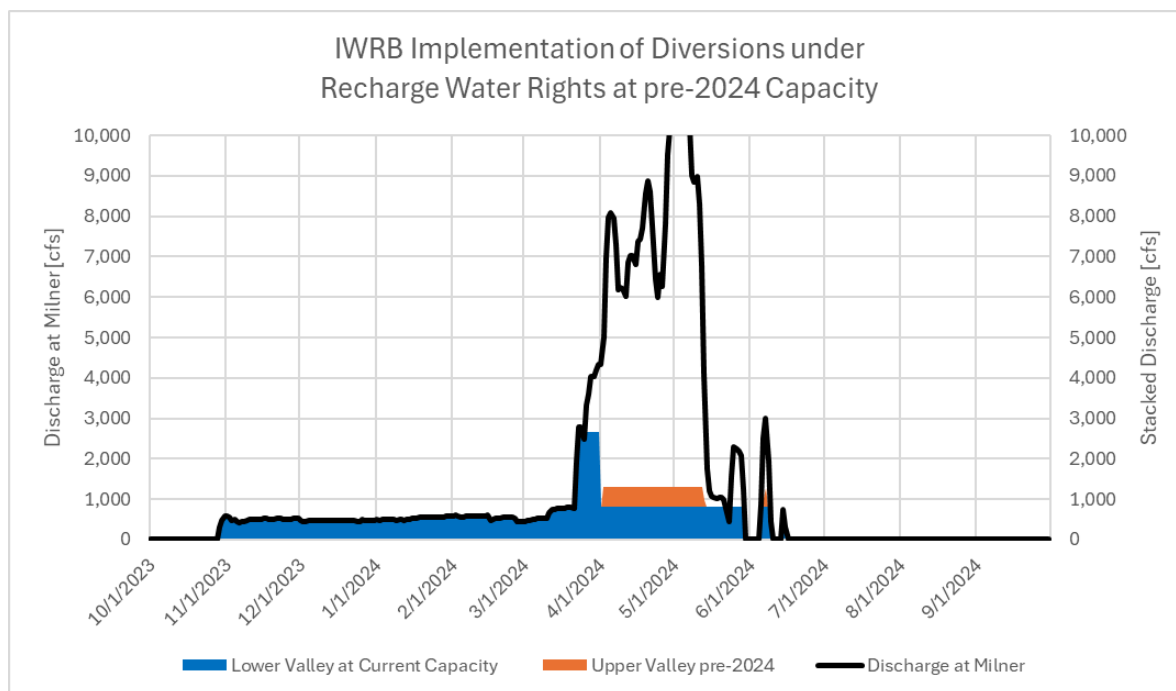
IWRB Implementation of Diversions under
Recharge Water Rights at post-2024 Capacity with Conditions



Condition 2: 344,656 ac-ft 15-year average

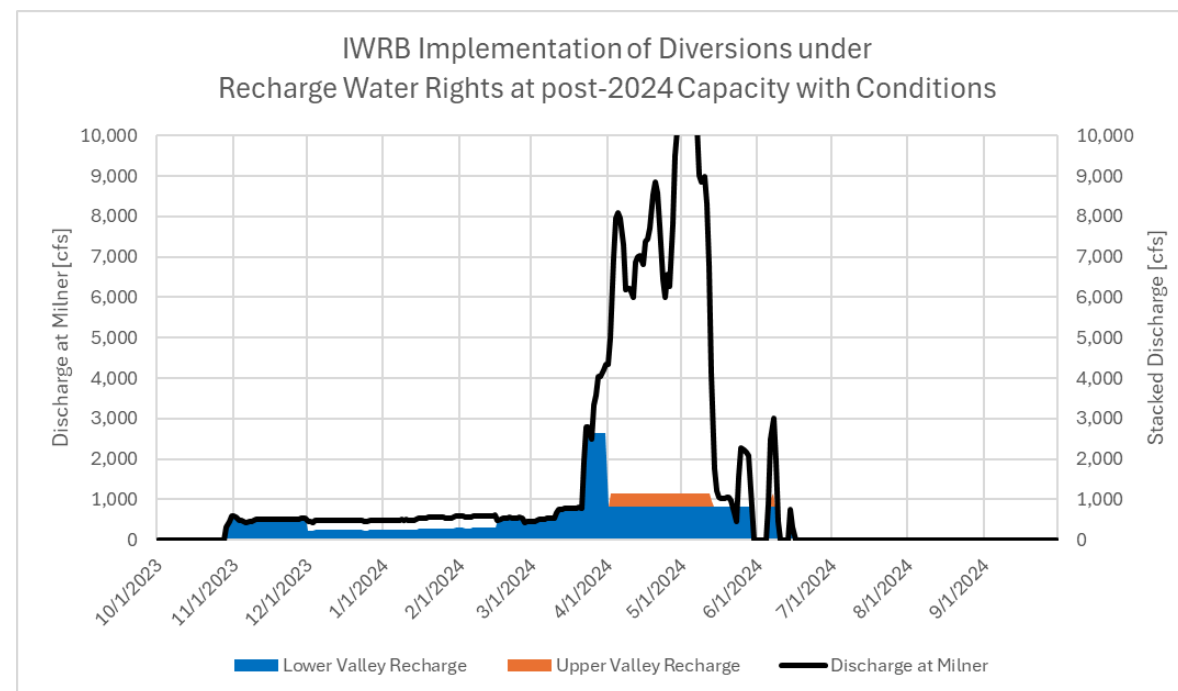
Recharge = 121,345 ac-ft

Impact of Conditions on 2024



Condition 4: 468,085 ac-ft 15-year average

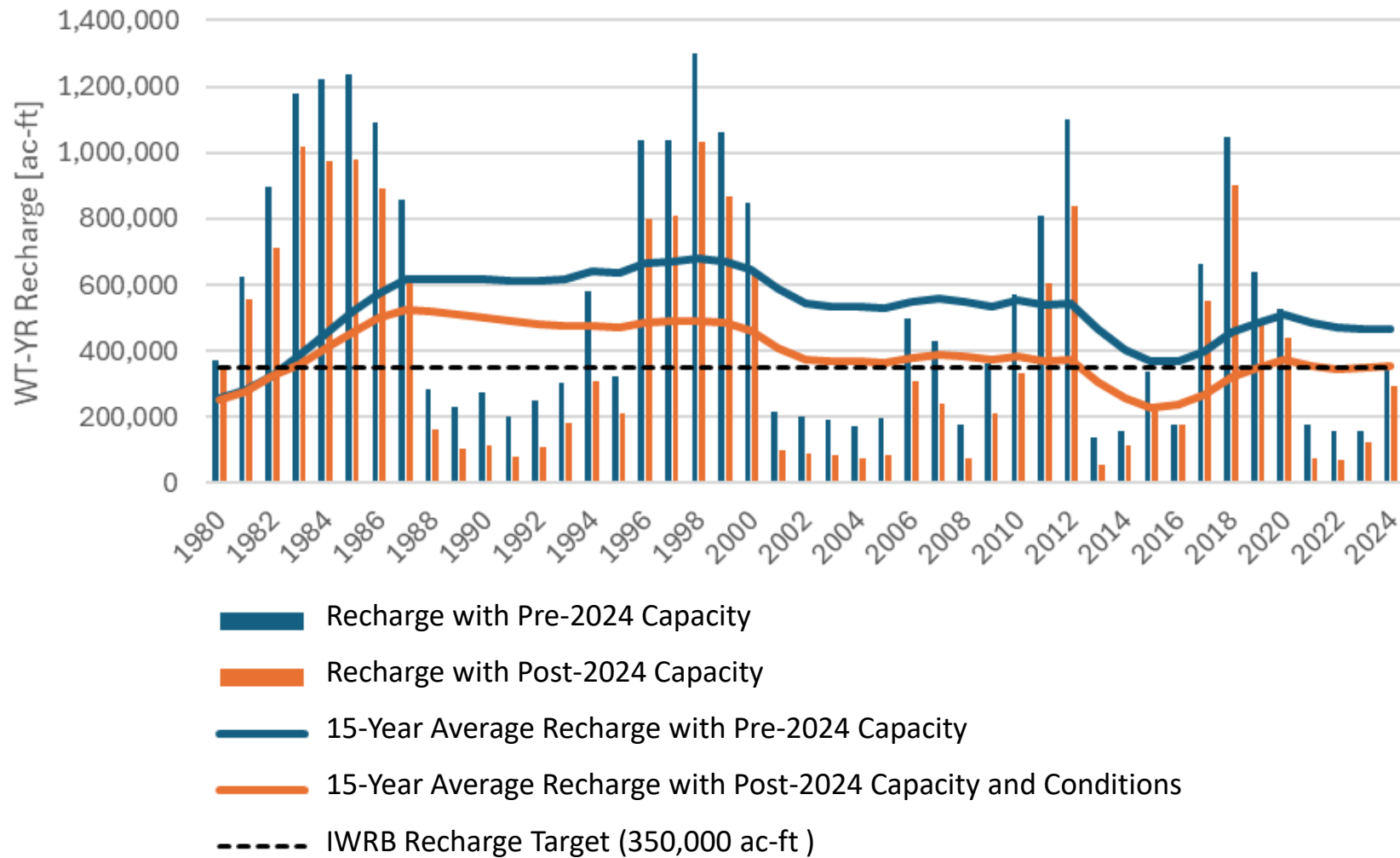
Recharge = 347,413 ac-ft



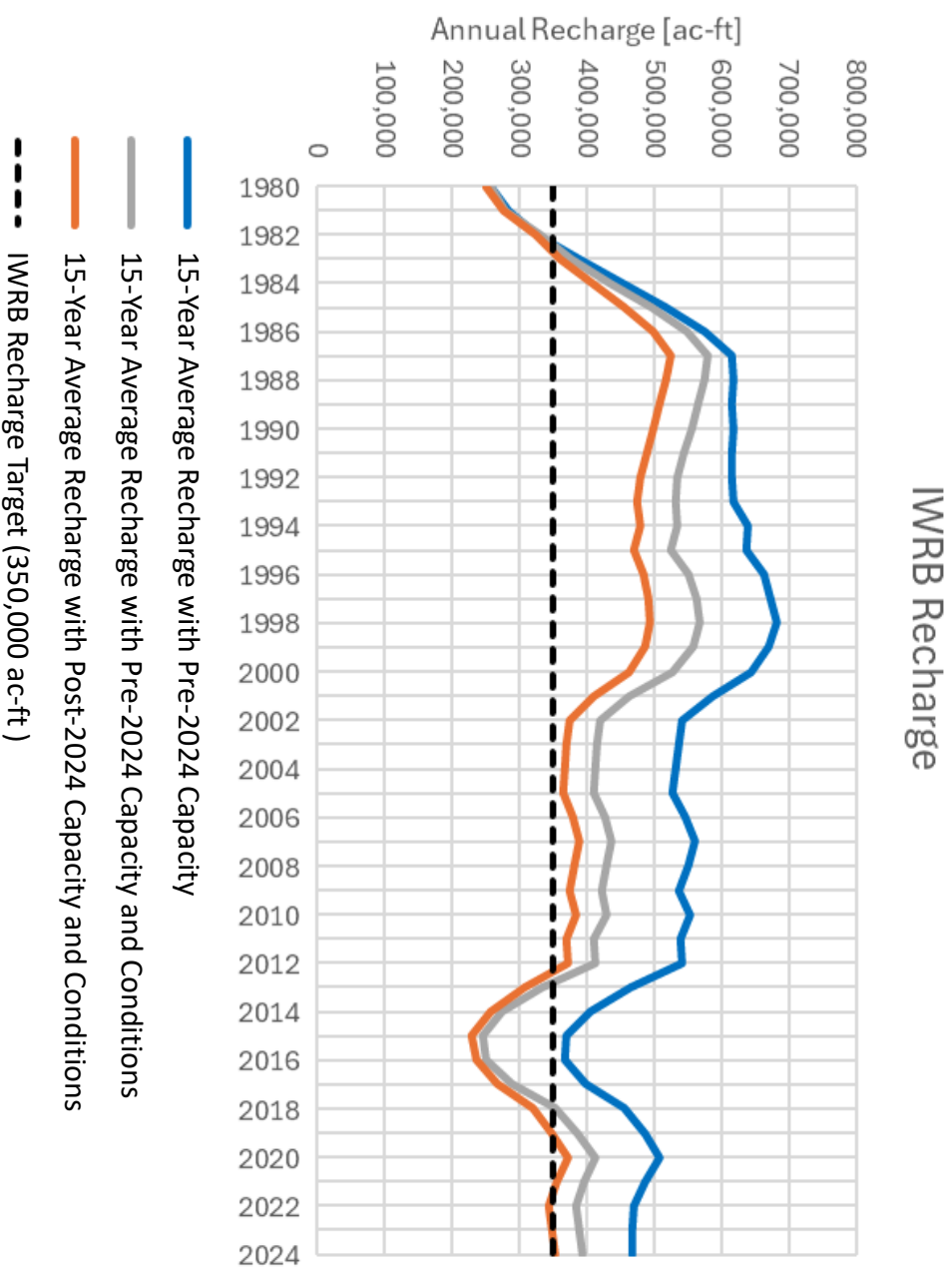
Condition 2: 347,646 ac-ft 15-year average

Recharge = 293,690 ac-ft

IWRB Recharge Capacity



Current Capacity Recharge vs. w/ Conditions



Conclusions

- Under historic conditions, the 15-year rolling average would stay near 350,000 ac-ft.
- Under 1930 drought conditions, the IWRB would not reach 350,000 ac-ft for at least a decade or more.
- Under 1970 pluvial conditions, the IWRB would quickly reach and exceed 350,000 ac-ft.

Memorandum



To: Idaho Water Resource Board: Water Supply Management Committee

From: Planning & Projects Bureau Staff

Date: October 24, 2025

Re: Idaho Power Co. Recharge Capacity Analysis

ACTION: No action

An analysis by Idaho Power Company will discuss recharge capacity.