

**TECHNICAL MEMO - INCREMENTAL IMPLEMENTATION OF MEFs – WATER YEAR 2024  
 COMPACT IMPLEMENTATION TECHNICAL TEAM (CITT)  
 WORKING DRAFT – MARCH 27, 2024 – NOT APPROVED BY CITT**

**Background**

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The Compact Implementation Technical Team (CITT) was established by the CSKT-Montana Compact, *MCA 85-20-1901*, (Compact) and has State, Tribal, Federal, Flathead Indian Irrigation Project (FIIP), and irrigator representation. The duties of the CITT are to enact specific components of the Compact, as established in *MCA 85-20-1901, Article II* and *Appendix 3.5*. A component of these duties includes the incremental implementation of Minimum Enforceable Flows (MEFs) and River Diversion Allowances (RDAs) in anticipation of the full enforceability dates. This responsibility is described in *Article IV* of the Compact, as well as in *Appendix 3.4* and *Appendix 3.5*.

*Article IV (C)(3)(c)* of the Compact states:

*c. Until an MEF has become enforceable, the interim Instream Flow, where applicable, for that location shall be the enforceable Instream Flow. Where the Instream Flow has been incrementally increased above the interim Instream Flow level as a result of the partial completion of actions listed in the Implementation Schedule attached hereto as Appendix 3.4, the incrementally achieved level may be maintained until the MEF is achieved.*

With this in mind, it is a function of the CITT to develop a methodology for 1) defining completeness of Operational Improvements and 2) assigning these incremental instream flows to corresponding MEF locations. This document offers suggestions on developing these methods, while also proposing reasonable values for each as February 2024. The CITT recommends that Incremental MEFs will go into effect on May 1 of water year 2024, with subsequent revisions to this document each year leading up to the full enforceability dates presented below:

Table 1. Schedule for Full Enforceability of MEFs/TIFs/RDAs (adapted from Appendix 3.4).

<b>Geographical Area</b>	<b>Full Enforceability Dates for MEFs/TIFs/RDAs</b>
Mission Valley South	September 17, 2026
Mission Valley North	September 17, 2028
Jocko Valley	September 17, 2029
Little Bitterroot Valley	September 17, 2030

## Completion of Operational Improvements

Operational Improvements are a foundational component of the Compact, and their completion ensures the balance of water with regards to MEFs, Minimum Reservoir Pools, and RDAs. As of the writing of this document, Operational Improvements have been partially completed with a corresponding advancement in efficiency for water management in FIIP's operations. Per *Article IV (C)(3)(c)*, the status of Operational Improvements should be quantified so that appropriate interim MEFs can be established. Incrementally increasing MEF values will help FIIP prepare for full enforceability. Incremental implementation will also facilitate the progressive administration of any water management practices necessary to achieve MEFs upon the full enforceability dates. The schematic below illustrates CITT's proposed process for determining interim MEFs.

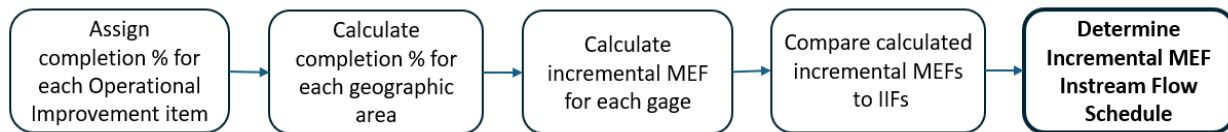


Figure 1. Flow chart for determining incremental implementation of MEFs.

CITT has developed tabulated lists to quantify the completion of Operational Improvements (attached as *Supplement A*). These tables are a comprehensive representation of the original text in *Appendix 3.4* but are reformatted provided in a way that is easier to analyze. The following criteria were used to score the completion of Operational Improvements:

- Each tabulated Operational Improvement item is assigned a completion status (Incomplete, In Progress, or Complete) and a corresponding completion percentage.
- Items with Incomplete status are assigned 0% completion, those with Complete status are assigned a 100% completion percentage.
- Items with a In Progress Status have pending actions needed to bring them to full completion. They are assigned a completion percentage between 1%-99%.
  - For example, the *On-farm Efficiency Improvements* category is listed as *In Progress*. With the CITT-funded Agrimet station network, this category has significant progress towards completion. Because there is work left to be done to realize on-farm water use improvements, particularly in the area of agricultural outreach, CITT has assigned 50% completion. Pending work will influence future scoring of this category.
- Scoring is completed on the FIIP-wide criteria in Tables 1.0 and 2.0 for informational purposes only and has no bearing on the calculation of incremental MEFs calculated for each region.
- Percent completion scoring for each of the geographic areas (Tables 3-6) determines incremental MEFs.
- Geographically-focused actions describe the specific actions that contribute to meeting the MEF values in each geographic area. Within each geographic area, each item is weighted equally.

Applying these scoring criteria, a percent completeness value is computed for each geographical area. CITT contemplated assigning different weights for each Operational Improvement Category, but a sensitivity analysis revealed little practicable difference if categories were weighted or unweighted. In addition, each Operational Improvement was determined to hold unique significance and contribute to

the overall completion of improvements identified in Appendix 3.4. These values are provided in *Supplement A* and are summarized below based on the *Appendix 3.4* components.

Table 2. Operational Improvement Completion Percentage as of March, 2024.

Appendix 3.5 Table	% Completion
<b>Table 1.0*</b> Overall Impact	68%
<b>Table 2.0*</b> FIIP-Wide Planning	79%
<b>Table 3.0</b> Mission South	33%
<b>Table 4.0</b> Mission North	33%
<b>Table 5.0</b> Jocko Valley	33%
<b>Table 6.0</b> Little Bitterroot	33%

\* Tables 1.0 and 2.0 represent area-wide organizational actions and are not considered in the area-specific percent complete.

### Assigning Incremental MEFs to each gage

With the percent complete values established above, the incremental MEFs are calculated based on a proportionality between the completion percentage of Operational Improvements and the interim instream flow (IIF)/MEF values for each gage. Displayed as an equation, this relationship is:

Calculating Incremental Instream Flow

$$((MEF - IIF) \times \text{Percent Complete}) + IIF = \text{Incremental MEF}$$

**MEF** - Minimum Enforceable Flow from Appendix 3.1  
**IIF** - Interim Instream Flow from Appendix 13  
**Percent Complete** - Completeness of Operational Improvements

Figure 2. Equation to calculate Incremental MEFs.

Incremental MEFs were calculated using the equation above for all locations that have assigned interim instream flows. All incremental MEFs that are under 10 cfs were rounded to the nearest 0.5 cfs and incremental MEFs that are greater than 10 cfs are rounded to the nearest whole cfs. As an example, below is the incremental MEF calculation for the East Fork Finley Creek gage below Jocko N Canal, assuming 33% completion of Operational Improvements:

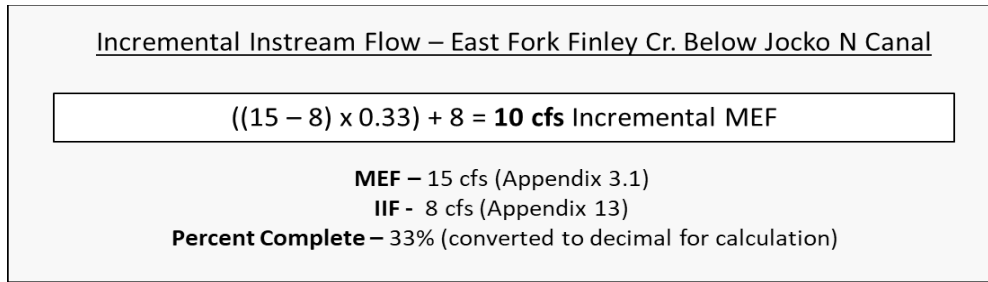


Figure 3. Example calculation for East Fork Finley Creek below the Jocko N Canal.

CITT has compiled a complete set of Incremental MEFs at each gage (included as *Supplement B*) using the methodology described above. The green-colored values indicate incremental MEFs, while the peach-colored values indicate values that will remain as interim instream flows for WY 2024. Grayed-out cells in the “IMEF 24” (Incremental MEF Water Year 2024) row indicate instances where the MEF values are below the interim instream flows currently in place, thus the incremental increases do not apply. An example of this color-coded chart, again using East Fork Finley Creek below Jocko N Canal, is provided below:

Table 3. Recommended instream flow compliance table (Interim Instream Flows and Incremental MEFs) for water year 2024.

<b>East Fork Finley Creek below Jocko N Canal near Mouth</b>												
	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	3	3	3	7	15	10	7	5	4	4	3	3
IIF	8	8	8	8	8	8	8	8	8	8	8	8
IMEF 24					10	9						

As seen in the above chart, the interim instream flow (peach colored cells) would be the prevailing instream flow schedule for all months except for May and June at this gage. During May/June, the incremental MEF (green cell) becomes the enforceable flow for water year 2024. For reference, the fully enforceable MEFs are included as grayed-out values.

### RDA, TIF, and Minimum Reservoir Pool Elevation Considerations

As with MEFs, River Diversion Allowances (RDAs) are also slated to be adjusted incrementally based on Operational Improvement implementation. The citation for this is found in *Compact Article IV (D) (1) (c)*

*c. Headworks diversion amounts shall be progressively adjusted to achieve the RDAs as Operational Improvements are completed pursuant to Appendix 3.4.*

Due to the complexity of comparing RDAs against the historical and current conditions, more work needs to be done in order to define incremental RDAs. A potential method would be a historical review of 1983-2002 diversions to develop a scale between historical diversions and the fully enforceable RDAs. With this scale established, the completion factor would be applied to determine the adjusted

headworks diversions. Future discussions on this topic will seek to refine the approach to determine these incremental RDAs.

Additionally, regarding Target Instream Flows (TIFs) and Minimum Reservoir Pool Elevations, Appendix 3.4 describes the CITT's responsibilities regarding incremental implementation. Future work will establish the CITT's methodology for incremental implementation of TIFs and Minimum Reservoir Pool Elevations.

# Supplement A

Table 1.0 Overall Table of Status of Operational Improvements			Percent Complete
Comprehensive Actions FIIP Wide	Status	Note	Scoring
a. CITT Formation	Complete	CITT first meeting May 24, 2016	100%
b. CITT Water Management Coordination	Complete	CITT meeting multiple times per year for Water Management Coordination	50%
c. CITT Water Measurement	Complete	MEF/TIF/RDA/MRPE buildout is complete	90%
d. CITT Onfarm Efficiency Improvements	In progress	3 new AgriMet sites installed on reservation. CITT funding annual O&M. CITT Coordination Efforts focused on partnerships including outreach efforts.	50%
e. CITT Stockwater Mitigation	Incomplete	Coordination ongoing. No current CITT projects. See Article VI.A.1.c.	0%
f. CITT Modernization Plan	Complete	FIIP Modernation Plan published April 2016	100%
g. Forecasting Procedures	In progress	DNRC providing forecasting for Post Creek NRCS providing forecasting for 4 locations - additional forecasting points under development	50%
h. Develop Web-Based Irrigation Management Tools	Complete	Hosted at <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a>	90%
i. CITT Website	Complete*	DNRC hosts CITT website. CITT may create independent website.	80%
			<b>Overall</b>
			<b>68%</b>

Updated 1/31/2024

Table 2.0 FIIP-Wide Planning for, and Implementation of, Operational Improvements			Percent Complete
Comprehensive Actions FIIP Wide	Status	Note	Scoring
1. CITT Formation			
a. Parties and Project Operator Form CITT Following Compact Process	Complete	CITT first meeting May 24, 2016	100%
2. CITT Water Management Coordination	Complete	Ongoing for life of CITT	100%
3. FIIP Modernization Plan			
a. CITT Finalize Scope of Work	Complete	FIIP Modernation Plan published April 2016	100%
b. CITT Contract for Services	Complete	FIIP Modernation Plan published April 2016	100%
c. CITT/Contractor Prepare Draft Plan	Complete	FIIP Modernation Plan published April 2016	100%
d. Outside Review and CITT/Contractor Completion of Plan	Complete	FIIP Modernation Plan published April 2016	100%
4. Forecasting Procedures			
a. CITT Contract for Service	In progress	Forecasting provided at 5 locations - additional forecasting points under development	50%
b. CITT/Contractor Complete Forecast Workproduct	In progress	forecasting points under development	50%
5. Web-based Irrigation Water Management/Scheduling Tools			
a. State/CITT Develop Web-based Irrigation Management Tools	Complete	Hosted at <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a>	100%
a. CITT Define Website Functionality	Complete	Hosted at <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a>	100%
b. CITT Contract for Service	Complete	Hosted at <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a>	100%
c. Contractor Complete Website Workproduct	Complete	Hosted at <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a>	100%
7. CITT Reporting and Data Dissemination			
a. CITT Prepare Annual Water Measurement/Management Report	Incomplete	Under development	0%
b. CITT Maintains Information on Website	Incomplete	Under development	0%
			<b>Overall</b>
			<b>79%</b>

Updated 1/31/2024



Table 3.0 Mission Valley South Status of Operational Improvements			Percent Complete
Mission Valley South	Status	Note	Scoring
1. CITT Water Management Coordination	Complete	Ongoing for the life of the CITT.	100%
2. Water Measurement			
a. CSKT - Streams and Instream Flow Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
b. CSKT - Administered RDA Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
c. CSKT - Reservoirs	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
d. CSKT - Irrigation Return Flows	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
e. Project Operator - Lateral Canals	Incomplete	See Appendix 3.4.	0%
f. Project Operator - Farm Delivery Locations	Incomplete	See Appendix 3.4.	0%
3. Operations			
a. CITT Scope of Model Work	In progress	CITT initiated discussion on RFQ process.	50%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Model	Incomplete	See Appendix 3.4.	0%
d. CITT Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
4. Farm Delivery Accounting			
a. CITT Scope of Accounting System	Incomplete	See Appendix 3.4.	0%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Accounting System	Incomplete	See Appendix 3.4.	0%
d. Project Operator Populate Accounting System	Incomplete	See Appendix 3.4.	0%
e. Project Operator Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
5. Onfarm Efficiency Improvements			
a. State/CITT Cost-Share Onfarm Conservation Practices	In progress	CITT funding annual O&M for Agrimet stations. Remaining needs include ag community outreach.	50%
6. Stockwater Mitigation			
a. State/CITT Cost-Share Stockwater Developments	Incomplete	See Appendix 3.4, Article VI.A.1.c.	0%
7. Irrigation Diversion Headworks Automation			
a. Retrofit Certain Diversion Structures to Support Automation	Incomplete	See Appendix 3.4.	0%
			<b>Overall</b>
			<b>33%</b>

Updated 1/31/2024

Table 4.0 Mission Valley North Status of Operational Improvements			Percent Complete
Mission Valley North	Status	Note	Scoring
1. CITT Water Management Coordination	Complete	Ongoing for the life of the CITT.	100%
2. Water Measurement			
a. CSKT - Streams and Instream Flow Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
b. CSKT - Administered RDA Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
c. CSKT - Reservoirs	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
d. CSKT - Irrigation Return Flows	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
e. Project Operator - Lateral Canals	Incomplete	See Appendix 3.4.	0%
f. Project Operator - Farm Delivery Locations	Incomplete	See Appendix 3.4.	0%
3. Operations			
a. CITT Scope of Model Work	In progress	CITT initiated discussion on RFQ process.	50%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Model	Incomplete	See Appendix 3.4.	0%
d. CITT Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
4. Farm Delivery Accounting			
a. CITT Scope of Accounting System	Incomplete	See Appendix 3.4.	0%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Accounting System	Incomplete	See Appendix 3.4.	0%
d. Project Operator Populate Accounting System	Incomplete	See Appendix 3.4.	0%
e. Project Operator Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
5. Onfarm Efficiency Improvements			
a. State/CITT Cost-Share Onfarm Conservation Practices	In progress	Round Butte Agrimet station installed. CITT funding annual O&M Remaining needs include ag community outreach	50%
6. Stockwater Mitigation			
a. State/CITT Cost-Share Stockwater Developments	Incomplete	See Appendix 3.4, Article VI.A.1.c.	0%
7. Irrigation Diversion Headworks Automation			
a. Retrofit Certain Diversion Structures to Support Automation	Incomplete	See Appendix 3.4.	0%
			<b>Overall</b>
			<b>33%</b>

Updated 1/31/2024

Table 5.0 Jocko Valley Status of Operational Improvements			Percent Complete
Jocko Valley	Status	Note	Scoring
1. CITT Water Management Coordination	Complete	Ongoing for the life of the CITT.	100%
2. Water Measurement			
a. CSKT - Streams and Instream Flow Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
b. CSKT - Administered RDA Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
c. CSKT - Reservoirs	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
d. CSKT - Irrigation Return Flows	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
e. Project Operator - Lateral Canals	Incomplete	See Appendix 3.4.	0%
f. Project Operator - Farm Delivery Locations	Incomplete	See Appendix 3.4.	0%
3. Operations			
a. CITT Scope of Model Work	In progress	CITT initiated discussion on RFQ process.	50%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Model	Incomplete	See Appendix 3.4.	0%
d. CITT Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
4. Farm Delivery Accounting			
a. CITT Scope of Accounting System	Incomplete	See Appendix 3.4.	0%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Accounting System	Incomplete	See Appendix 3.4.	0%
d. Project Operator Populate Accounting System	Incomplete	See Appendix 3.4.	0%
e. Project Operator Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
5. Onfarm Efficiency Improvements			
a. State/CITT Cost-Share Onfarm Conservation Practices	In progress	AgriMet station installed in Arlee. CITT funding annual O&M. Remaining needs include ag community outreach.	50%
6. Stockwater Mitigation			
a. State/CITT Cost-Share Stockwater Developments	Incomplete	See Appendix 3.4, Article VI.A.1.c.	0%
7. Irrigation Diversion Headworks Automation			
a. Retrofit Certain Diversion Structures to Support Automation	Incomplete	See Appendix 3.4.	0%
			<b>Overall</b>
			<b>33%</b>

Updated 1/31/2024

Table 6.0 Little Bitterroot Valley Status of Operational Improvements			Percent Complete
Little Bitterroot Valley	Status	Note	Scoring
1. CITT Water Management Coordination	Complete	Ongoing for the life of the CITT.	100%
2. Water Measurement			
a. CSKT - Streams and Instream Flow Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
b. CSKT - Administered RDA Sites	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
c. CSKT - Reservoirs	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
d. CSKT - Irrigation Return Flows	Complete	Buildout complete. Reporting on <a href="http://www.csktwaterdata.org">www.csktwaterdata.org</a> .	100%
e. Project Operator - Lateral Canals	Incomplete	See Appendix 3.4.	0%
f. Project Operator - Farm Delivery Locations	Incomplete	See Appendix 3.4.	0%
3. Operations			
a. CITT Scope of Model Work	In progress	CITT initiated discussion on RFQ process.	50%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Model	Incomplete	See Appendix 3.4.	0%
d. CITT Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
4. Farm Delivery Accounting			
a. CITT Scope of Accounting System	Incomplete	See Appendix 3.4.	0%
b. CITT Contract for Services	Incomplete	See Appendix 3.4.	0%
c. CITT/Contractor Construct Accounting System	Incomplete	See Appendix 3.4.	0%
d. Project Operator Populate Accounting System	Incomplete	See Appendix 3.4.	0%
e. Project Operator Run and Maintain Model	Incomplete	See Appendix 3.4.	0%
5. Onfarm Efficiency Improvements			
a. State/CITT Cost-Share Onfarm Conservation Practices	In progress	AgriMet station installed in Hot Springs. CITT funds annual O&M Remaining needs include ag community outreach.	50%
6. Stockwater Mitigation			
a. State/CITT Cost-Share Stockwater Developments	Incomplete	See Appendix 3.4, Article VI.A.1.c.	0%
7. Irrigation Diversion Headworks Automation			
a. Retrofit Certain Diversion Structures to Support Automation	Incomplete	See Appendix 3.4	0%
			<b>Overall</b>
			<b>33%</b>

Updated 1/31/24

# Supplement B



*DRAFT - Proposed Incremental MEF Instream Flow Schedules - Water Year 2024*

**Agency Creek below Upper Jocko J Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	3	3	4	8	15	14	10	6	6	4	4	3
IIF	8	8	8	8	8	8	8	8	8	8	8	8
IMEF 24					10	10	9					

**East Fork Finley Creek below Jocko N Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	3	3	3	7	15	10	7	5	4	4	3	3
IIF	8	8	8	8	8	8	8	8	8	8	8	8
IMEF 24					10	9						

**Schley Creek below Doney Ditch near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
	0.3	0.3	0.4	1	3	1.9	1.1	0.6	0.5	0.4	0.4	0.3

**Finley Creek below Finley E Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	9	9	11	23	50	28	15	12	11	11	11	10
IIF	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
IMEF 24	8	8	9	13	22	14	10	9	9	9	9	8

**Jocko River below Lower Jocko S Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	78	78	104	168	310	242	135	95	110	80	80	80
IIF	43	43	43	43	43	43	43	43	43	43	43	43
IMEF 24	55	55	63	84	131	109	73	60	65	55	55	55

**Jocko River below Lower Jocko J Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	95	95	110	175	325	250	130	115	110	105	100	100
IIF	76	76	76	76	76	76	76	76	76	76	76	76
IMEF 24	82	82	87	109	158	133	94	89	87	86	84	84

**Revais Creek below Revais R Canal below Highway 200**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	3	3	3	6	10	6	3	3	3	3	3	3

**Mission Creek below Pablo Feeder Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	11	10	10	20	94	115	102	85	45	20	20	11
IIF	18	18	18	18	18	18	18	18	18	18	18	18
IMEF 24				19	43	50	46	40	27	19	19	

**Post Creek below McDonald Reservoir above Pablo Feeder Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	20	20	20	30	60	140	120	80	40	40	30	20

*DRAFT - Proposed Incremental MEF Instream Flow Schedules - Water Year 2024*

**Middle Crow Creek below Pablo Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	2	2	2	2	9	9	2	2	2	2	2	2
IIF	1	1	1	1	1	1	1	1	1	1	1	1
IMEF 24					4	4						

**North Crow Creek below Pablo Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	9	9	14	23	56	27	11	10	10	10	9	9
IIF	10	10	10	10	10	10	10	10	10	10	10	10
IMEF 24			11	14	25	16						

**Mission Creek below Mission 6C Canal above Post Creek**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	13	13	20	24	50	65	35	25	25	25	20	15
IIF	20	20	20	20	20	20	20	20	20	20	20	20
IMEF 24				21	30	35	25	22	22	22		

**Post Creek below Post F Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	20	20	22	26	55	60	35	26	24	22	22	22
IIF	22	22	22	22	22	22	22	22	22	22	22	22
IMEF 24				23	33	35	26	23	23			

**Marsh Creek below Marsh Creek Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	2	2	2	2	2	2	2	2	2	2	2	2

**South Crow Creek below South Crow Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	5	5	5	10	12	13	10	9	7	7	7	6
IIF	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
IMEF 24				10	10	11	10					

**Crow Creek below Crow Pump Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	25	25	25	40	60	55	22	22	25	25	25	25
IIF	17	17	17	17	17	17	17	17	17	17	17	17
IMEF 24	20	20	20	25	31	30	19	19	20	20	20	20

**Mud Creek below Ronan B Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	3	3	4	5	13	9	5	3	3	3	3	3
IIF	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
IMEF 24	2	2	2	2	5	4	2	2	2	2	2	2



*DRAFT - Proposed Incremental MEF Instream Flow Schedules - Water Year 2024*

**Crow Creek below Moiese A Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	30	30	30	35	50	30	21	21	21	21	21	21
IIF	21	21	21	21	21	21	21	21	21	21	21	21
IMEF 24	24	24	24	26	31	24						

**Hellroaring Creek below Twin Feeder Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	1	1	1	1	1	1	1	1	1	1	1	1

**Little Bitterroot River below Camas A Canal Headworks and above Mill Creek**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	1	1	1	1	1	1	1	1	1	1	1	1

**Little Bitterroot River below Camas A Canal Headworks and below Mill Creek**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	6	6	6	6	6	6	6	6	6	6	6	6

**Mill Creek below Camas A Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF	1	1	1	1	1	1	1	1	1	1	1	1

**Hot Springs Creek below Camas C Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	1	1	1	1	1	1	1	1	1	1	1	1

**Little Bitterroot River below Hot Springs Creek (no mef or tif values)**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
Water Right	75	106	116	198	176	108	28	47	35	32	37	26

**Definitions:**

IIF = Interim Instream Flow

MEF = Minimum Enforceable Flow

IMEF 24 = Incremental Minimum Enforceable Flow for Water Year 2024

MEF/IIF = Denotes values that have the same values for MEFs and IIFs; no change is required to adapt to MEF

# Supplement C

*DRAFT - Proposed Incremental MEF Instream Flow Schedules - Water Year 2024*

**Middle Fork Jocko River below Tabor Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	20	20	20	20	22	21	20	20	20	20	20	20

**North Fork Jocko River below Tabor Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	18	18	18	20	25	22	19	18	18	18	18	18

**Jocko River below Upper Jocko S Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	20	20	22	33	46	38	30	22	20	20	20	20

**Big Knife Creek below Upper Jocko S Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	2	2	2	3	4	4	3	3	3	3	2	2

**Jocko River below Jocko K Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	44	44	46	62	76	59	44	44	44	44	44	44

**Agency Creek below Upper Jocko J Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	8	8	8	8	10	10	9	8	8	8	8	8

**East Fork Finley Creek below Jocko N Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	8	8	8	8	10	9	8	8	8	8	8	8

**Finley Creek below Finley E Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	8	8	9	13	22	14	10	9	9	9	9	8

**Jocko River below Lower Jocko S Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	55	55	63	84	131	109	73	60	65	55	55	55

**Jocko River below Lower Jocko J Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	82	82	87	109	158	133	94	89	87	86	84	84

**Mission Creek below Pablo Feeder Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	18	18	18	19	43	50	46	40	27	19	19	18

**Middle Crow Creek below Pablo Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	1	1	1	1	4	4	1	1	1	1	1	1

**North Crow Creek below Pablo Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	10	10	11	14	25	16	10	10	10	10	10	10

*DRAFT - Proposed Incremental MEF Instream Flow Schedules - Water Year 2024*

**Mission Creek below Mission 6C Canal above Post Creek**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	20	20	20	21	30	35	25	22	22	22	20	20

**Post Creek below Post F Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	22	22	22	23	33	35	26	23	23	22	22	22

**Marsh Creek below Marsh Creek Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	2	2	2	2	2	2	2	2	2	2	2	2

**South Crow Creek below South Crow Feeder Canal near mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	9.5	9.5	9.5	10	10	11	10	9.5	9.5	9.5	9.5	9.5

**Crow Creek below Crow Pump Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	20	20	20	25	31	30	19	19	20	20	20	20

**Mud Creek below Ronan B Canal**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	2	2	2	2	5	4	2	2	2	2	2	2

**Crow Creek below Moiese A Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
IMEF 24	24	24	24	26	31	24	21	21	21	21	21	21

**Little Bitterroot River below Camas A Canal Headworks and below Mill Creek**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	6	6	6	6	6	6	6	6	6	6	6	6

**Hot Springs Creek below Camas C Canal near Mouth**

	<i>Jan</i>	<i>Feb</i>	<i>Mar</i>	<i>Apr</i>	<i>May</i>	<i>Jun</i>	<i>Jul</i>	<i>Aug</i>	<i>Sep</i>	<i>Oct</i>	<i>Nov</i>	<i>Dec</i>
MEF/IIF	1	1	1	1	1	1	1	1	1	1	1	1

**Definitions:**

IMEF 24 = Incremental Minimum Enforceable Flow for Water Year 2024

MEF/IIF = Denotes values that have the same values for MEFs and IIFs; no change is required to adapt to MEF