

RECLAMATION

Managing Water in the West

CVP M&I Water Shortage Policy Review

Stakeholder Workshop #3

July 20, 2010

Red Lion Hotel, 1401 Arden Way, Sacramento



U.S. Department of the Interior
Bureau of Reclamation

Agenda

Time	Topic
9:00 – 9:15 am	• Welcome, Introductions, Agenda Review
9:15 – 9:30 am	• Review Results from Workshop #2
9:30 – 10:15 am	• M&I WSP Implementation Examples • Historical use • Public health and safety need
10:15 – 10:40 am	• Recycled Water Issues
10:40 – 11:00 am	• Break
11:00 – 12:00 pm	• Stakeholder Presentation – Part 1
12:00 – 12:15 pm	• Morning Session Summary
12:15 – 1:30 pm	• Lunch
1:30 – 2:45 pm	• Stakeholder Presentation – Part 2
2:45 – 3:15 pm	• Afternoon Summary
3:15 – 3:30 pm	• Next Steps

Objectives of Stakeholder Workshops

- Review CVP M&I Water Shortage Policy (WSP) status
- Enhance understanding of WSP
- Obtain input from CVP contractors and public (Stakeholders)
- Help guide decisions on WSP

Today's Workshop Objectives

- Review M&I WSP implementation examples
- Gather contractor input
- Plan / discuss next steps

Workshop Ground Rules

- **Listen actively**
 - Try to understand the basic interests of the presenter
 - If uncertain, restate what you heard in your own words
- **Provide input**
 - Use microphones so all can hear
 - Be focused and brief
 - Share information, ideas and concerns
- **Exercise courtesy and respect**
 - Be respectful; no put-downs/derogatory language
 - Leave “space” for others to speak
- **Hold questions until Q&A**

Review Results from Previous Workshop

RECLAMATION

Key Requests from Workshop #2

- **Additional examples of**
 - **Historical use calculations & adjustments**
 - **Public health & safety calculations**
- **Clarify Reclamation's policy on non-CVP supplies**
- **When and how is historical use adjusted**
- **Anticipated outcome of the M&I WSP review workshops**

Current M&I WSP Implementation

RECLAMATION

Current M&I WSP

Irrigation (% of contract entitlement)	M&I
100%	100% of contract total
Between 75% and 100%	100% of contract total
70%	95% of historical use
65%	90% “ “
60%	85% “ “
55%	80% “ “
Between 25% and 50%	75% “ “
20%	70% “ “ or public health & safety
15%	65% “ “ or public health & safety
10%	60% “ “ or public health & safety
5%	55% “ “ or public health & safety
0%	50% “ “ or public health & safety
<p>Note: If CVP water is not available, M&I contractors may be reduced below 50%.</p>	

Historical Use

- **Average of last three years of unconstrained delivery**
- **Adjustments**
 - **Growth: Population, commercial, industrial, institutional**
 - **Extraordinary water conservation measures: anything above CUWCC BMPs**
 - **Non-CVP supplies**

Historical Use Calculations

Hypothetical Districts

District	CVP Contract	Non-CVP Supply	Delivery (100% Allocation)			Historical Use
			2005	2006	2007	
Rustyville	35	35	30	32	34	32
Slavinville	25	60	4	10	8	7.33
Luciville	10	30	7	8	9	8

Historical Use Calculations

Units: 1,000 AF

Rustynville

$$(30 + 32 + 34) / 3 = 32$$

Slavinville

$$(4 + 10 + 8) / 3 = 7.33$$

Luciville

$$(7 + 8 + 9) / 3 = 8$$

RECLAMATION

Adjustment for Growth

Definition and Assumptions

- **Population growth based on information provided by contractor**
 - **Must be validated information**

Potential Adjustment for Growth

Assume 5% population increase

Percent Growth
from last year
used in
calculation
(5% since 2007)

2007 use

=

Adjustment

Historical Use

+

Adjustment

=

Adjusted
Historical Use

Rustyville

$$5\% \times 34 = 1.7$$

$$32 + 1.7 = 33.7$$

Slavinville

$$5\% \times 8 = 0.4$$

$$7.33 + 0.4 = 7.73$$

Luciville

$$5\% \times 9 = 0.45$$

$$8 + 0.45 = 8.45$$

RECLAMATION

Potential Adjustment for Extraordinary Water Conservation Measures

- **1% per year demand reduction is automatic**
 - 1% required by BMP
 - Conservation above 1% is accounted for in adjustment
- **Any water conservation measures above BMP implementation schedule will result in a potential 2% adjustment to historical use**

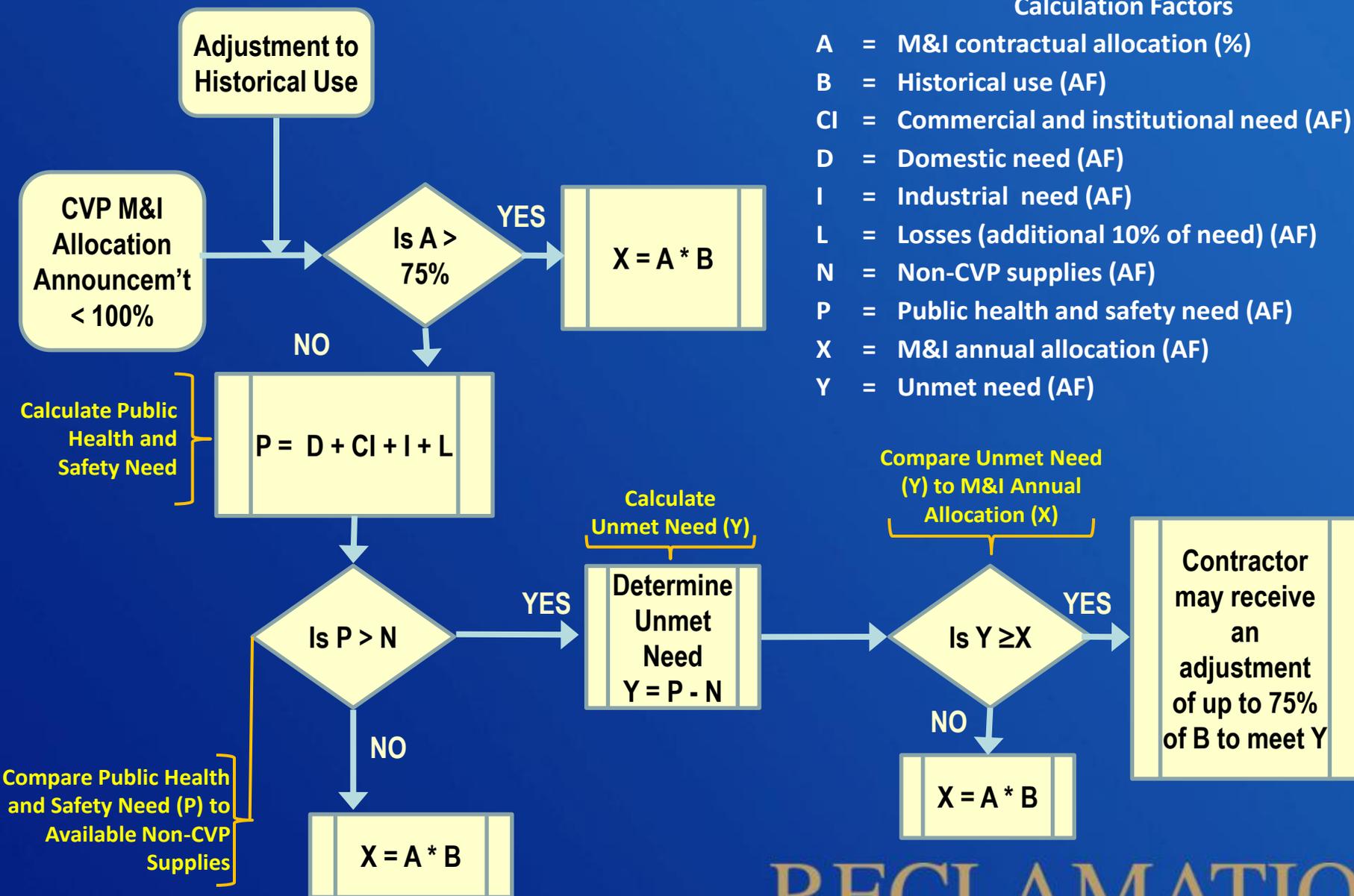
Potential Adjustment for Non-CVP Supply

- **If there is a benefit to the Project, then contractor may request a credit on a 1 AF for 1 AF basis**

M&I Public Health & Safety Process

Calculation Factors

- A = M&I contractual allocation (%)
- B = Historical use (AF)
- CI = Commercial and institutional need (AF)
- D = Domestic need (AF)
- I = Industrial need (AF)
- L = Losses (additional 10% of need) (AF)
- N = Non-CVP supplies (AF)
- P = Public health and safety need (AF)
- X = M&I annual allocation (AF)
- Y = Unmet need (AF)



Public Health & Safety Calculation

Factors	Rustyville
Annual Demand (AF)	
Domestic (D)	20,000
Commercial and Institutional (CI)	3,000
Industrial (I)	100
Total Annual Demand	23,100
Public Health & Safety Need (AF)	
Population	110,000 people
Domestic Value (Pop. * 50 gpcd)	6,161
Comm/Inst .Value (80% of CI)	2,400
Industrial Value (90% of I)	90
Conveyance loss (10% * [D + CI + I])	865
Total PH&S Need	9,516

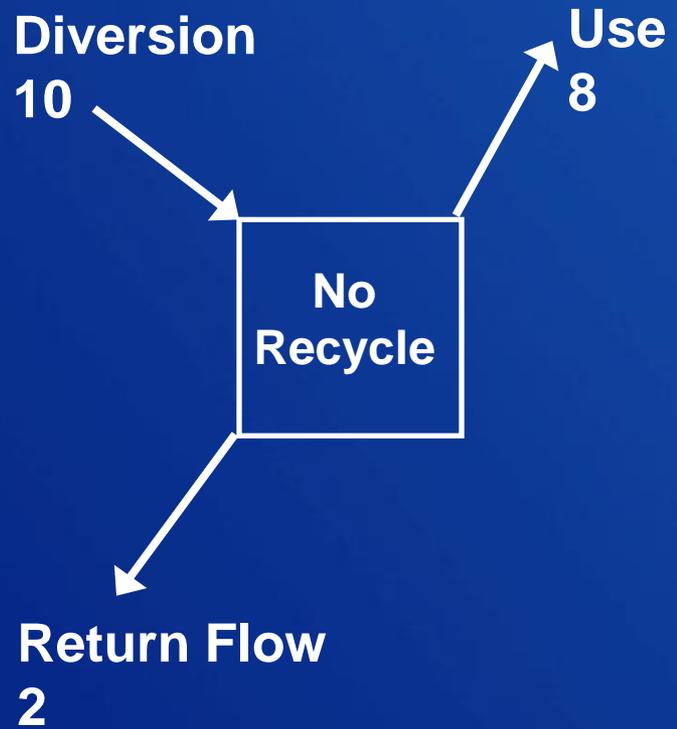
Recycled Water Issues

RECLAMATION

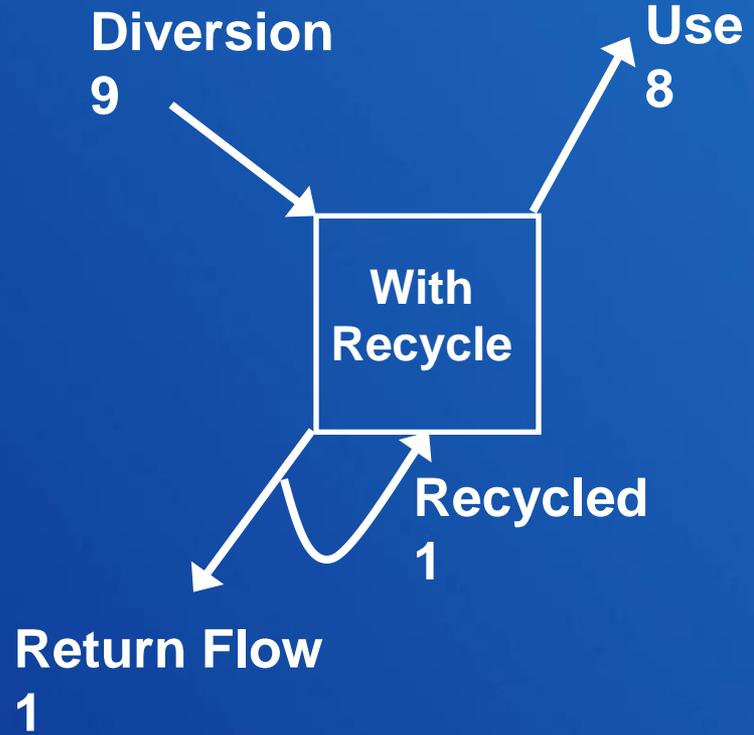
Recycled Water

- **Can reduce diversions of CVP water and augment local supplies**
- **Not considered extraordinary water conservation measure**
 - **Wastewater from CVP use was historically returned to the water supply through discharges to the river or groundwater recharge**
 - **Use of CVP water for recycled water source water reduces supplies available to other users**

Recycled Water



Effect to system = 8



Effect to system = 8

RECLAMATION

Extraordinary Water Conservation

- Exceeding BMP implementation schedule or implementation baselines
- Exceeds Flex track baseline
- Unique water conservation measure in addition to baseline requirements

Break

Reconvene at 11:00 am

RECLAMATION

Stakeholder Presentation – Part 1

RECLAMATION

Morning Session Closing

- Review / questions for clarification:
 - 1
 - 2
 - 3
 - 4

Lunch Break

- On your own
- See map of suggested restaurants
- Reconvene at 1:30 pm

Stakeholder Presentation – Part 2

RECLAMATION

Afternoon Session Closing

- Review / questions for clarification:
 - 1
 - 2
 - 3
 - 4

Next Steps

- Provide input & comments by August 12, 2010 to:
 - USBR: Tammy Laframboise
tlaframboise@usbr.gov
- Updates and new information available on M&I WSP Website - <http://www.usbr.gov/mp/cvp/mandi/index.html>

Thank you

RECLAMATION

Questions for Consideration....

- Does a historical use increase correlate with a population increase?

Questions to consider.....

- Why should Reclamation not consider non-CVP supplies in calculating PHS deliveries?

Questions to consider...

- What is meant by the goal stated in slide #9:
- “Ensure generally applicable minimum deliver to enable M&I contractors to plan for non-CVP supplies.”

Questions to consider....

- What are the trade-offs of using an across-the-board water allocation?

Next steps.....

- Reclamation...
- Contractors....
- Meeting #4?