

# MEASURING AND REPORTING



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# The Current Problem

- Need current and accurate information on how much water is being diverted.
- Rainfall and snow accumulation patterns vary widely across the State. Water supply may be adequate in one region while a critical water shortage can occur in another region.

# The Current Problem

- Accurate data on water diversion and use is needed in order to evaluate water supply conditions in each watershed.
- Need to determine how far water supplies can be expected to stretch.
- Need to determine whether there is water available for diversions.

# What's New

- The Governor recently signed into law a bill which adds measurement requirements to water rights that are 10 acre-feet or more in size.
- The law requires that water diverters begin measuring as soon as January 1, 2016.

# What's New

- The law requires that all diverters report their diversions annually.
- Currently, only permit and license holders submit their water diversion reports each year. All others submit their information on a less frequent basis.
- During times of water shortage, more frequent reporting may be required.



# Next Steps

- The next step in this process is development of a regulation.
- A regulation provides information on how to comply with the law. It can be very basic, or it can provide a lot of details and information to assist and guide the public.

# Next Steps

We are here today to seek your comments on the following issues:

- Reporting water use
- Required measurement
- Compliance and alternatives
- Installation of measuring devices
- Other key issues.

# Benefits

- Increase understanding of water use through more accurate measurement
- Improve water rights administration and transparency of records
- Provide more accurate data on available water supplies



# Benefits, Continued

- Assure compliance with the quantity and season limitations of existing water rights
- Protect senior rights in accordance with priorities
- Provide for efficient management and use of water during times of shortage
- Improve forecasting of water demand

# What Will 10 acre-feet Do?

- Provide 162 people with water for a year based on a use of 55 gallons per person per day.
- Provide 71 people with water for a year based on a use of 125 gallons per person per day.
- Irrigate 3.25 acres of land with an average duty of 3.1 acre-feet per acre.
- Fill a pond that covers one acre of land and has a depth of 12 feet.

# Primary Components of the New Law

- Reporting
- Measurement

**4. AMOUNT OF WATER DIVERTED AND USED**

**Note:** Please report only the amounts diverted and used under this supplemental statement only. Do not report water diverted under other water rights, groundwater, or water supplied or purchased from others.

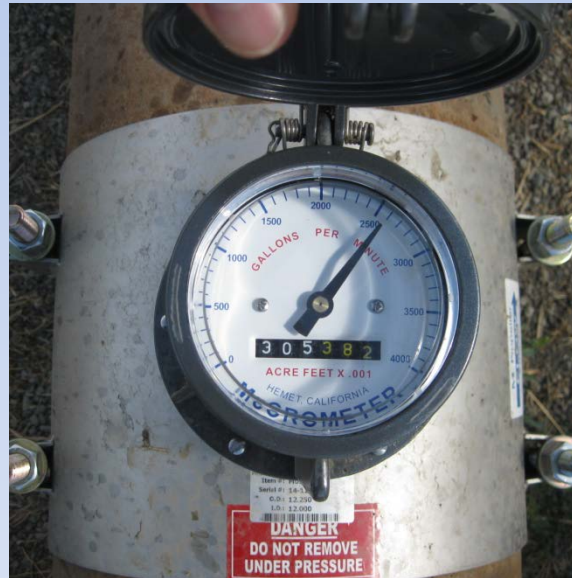
4a. Choose the unit:  
 Gallons     Acre-feet (AF) <sup>2</sup>

4b.  Check this box if the amount of water used is the same as the amount directly diverted. Do not check this box if your use of water is non-consumptive or if you have no use of water. If no use, enter 0 (zero) <sup>2</sup>

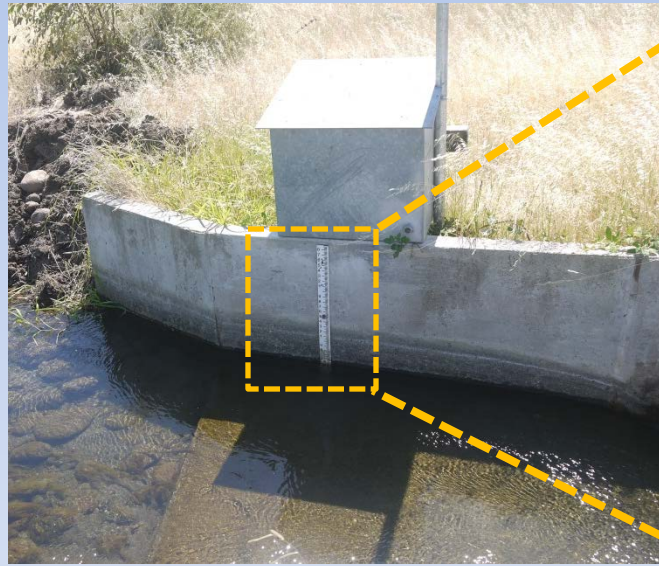
4c. Enter numerals only (no commas or letters). If no water was diverted as used, enter 0 (zero)

	Amount directly diverted	Amount diverted or collected to storage	Amount used <sup>2</sup>
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
Total	0	0	0

4d. If the total water diverted or used above is 0, please provide an explanation. Pre-1914 claim holders may lose their rights for



# Staff Gauge and Flume





# Staff Gage (Reservoir)



# Weirs



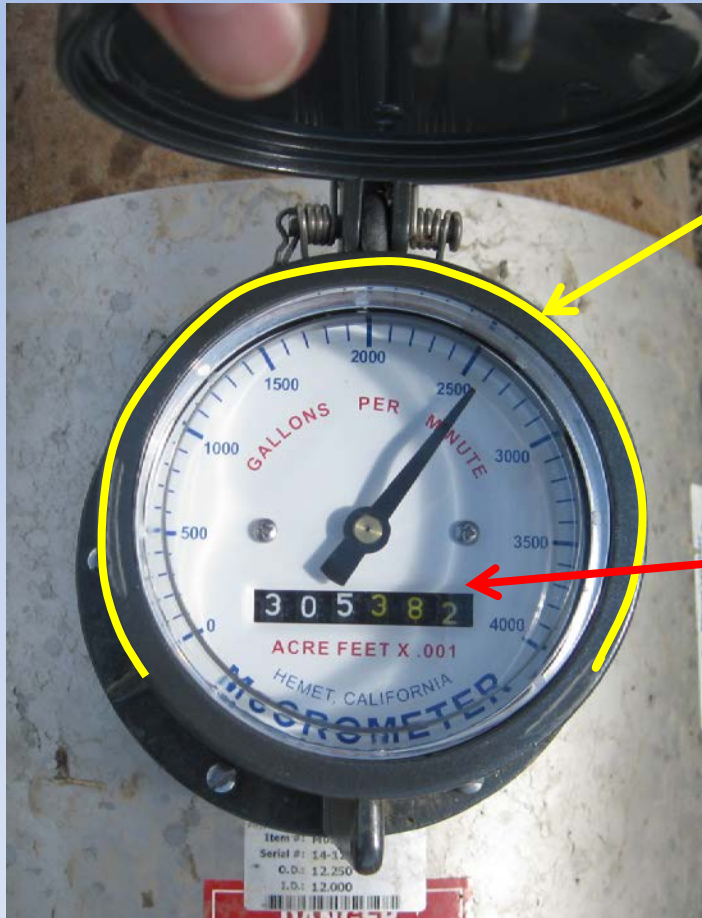
# Propeller Flowmeter



<http://www.waderain.com>



# Rate and Totalizer



Rate

Totalizer

# Concept 1

- What is a reasonable period of time for diverters to electronically submit the information required on the annual reports?

# Concept 2

- Under what conditions should monthly or more frequent reporting be required?

# Concept 3

How should the diversion threshold be determined for the measurement requirement when:

- A diverter exercises multiple water rights at the same point of diversion, or
- A diverter has multiple points of diversion.

# Concept 4

- Should measurement be required for small irrigation registrations?
- Should measurement be required for domestic registrations, livestock registrations or stock pond certificates?

# Concept 5

- Should measuring devices that are approved as meeting the existing requirements of other state and federal agencies be grandfathered in?

# Concept 6

- Should the regulation specify areas or circumstances where the diversion threshold for required measurement may be greater than 10 acre-feet per year?



# Concept 7

- Should the measurement requirements be based on accuracy standards, a specific list of approved devices, or another approach?

# Concept 8

- Collaborative measurement may provide for greater efficiency. What should the process be for submitting, reviewing, approving, and evaluating a collaborative measurement plan?

# Concept 9

- What reasonable alternatives should be considered for complying with the measurement requirements if strict compliance is considered infeasible, unreasonably expensive, to unreasonably affect public trust uses, or result in the waste or unreasonable use of water?

# Concept 10

- Under the new legislation, the measurement requirements could go into effect as early as January 1, 2016. What is a reasonable amount of time for diverters to install measuring devices or methods?

# Concept 11

- Who should be allowed to install or maintain a water measuring device or method?
- Should a certification process be required for measuring devices or methods to ensure they meet reasonable accuracy standards?

# Other Key Issues

What other key issues you would like to see addressed in the regulation?

# Next Steps

- The State Water Board will use the input from the meetings to shape a draft regulation.
- The draft regulation will be discussed at a State Water Board Workshop in December, 2015.
- The Board will be asked to consider adoption of the regulation in January, 2016.



# Additional Information

- Emergency regulation website
- [http://www.waterboards.ca.gov/waterrights/water\\_issues/programs/measurement\\_regulation/](http://www.waterboards.ca.gov/waterrights/water_issues/programs/measurement_regulation/)
- Phone Number: **(916) 341-5300**
- Email Address: **dwr-measurement@waterboards.ca.gov**