


USBR Pilot System Water Conservation Program

*By Patti Reyes
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Agenda

- ▶ USBR Pilot Program Description
 - ▶ Flood to Drip Rebate Program Description
 - ▶ Draft Participation Guidelines
 - ▶ Open Discussion
 - ▶ Next Steps
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USBR Pilot System Water Conservation Program

- Funded in partnership by
 - Reclamation
 - Metropolitan Water District
 - Central AZ Water Conserv. Dist.
 - So. NV Water Authority
 - Denver Water
- Goal is to create CO River storage by funding projects that save water
- \$11m distributed in \$1M grants
- A portion of the saved water remains in Lakes Powell and Mead to improve system storage



Benefits of CVWD Participation

- ▶ Funding Source for CVWMP programs
- ▶ Achieves CVWMP goals sooner
- ▶ Incentivizes CVWD's participation in preservation of CO River system storage



Agricultural Flood to Drip Conversion Pilot Program

- ▶ CVWMP Agricultural Conservation Goal
 - 14% Reduction
 - **Flood to drip saves up to 30%/ac**
 - Save 3af/ac/year
- ▶ 2014 CVWD Crop Survey
 - 76,000 irrigable acres
 - **10,000 flood irrigated acres**
 - 6,900 acres are dates and other trees
- ▶ Flood to Drip Rebate Program covers most of conversion cost
 - Conversion Cost ~ \$2,000/ac
 - **USBR rebate ~ \$1,500/ac**
 - Water saved ~\$120/ac/y*



*(based on average water cost of \$40/af)

Agricultural Flood to Drip Rebate Program

- ▶ \$1m to convert 667 acres
($\$1\text{ million} / \$1,500/\text{ac} = 667\text{ ac}$)
 - Estimate permanent water savings of 2,000 afy
($3\text{afy}/\text{ac} \times 667\text{ ac} = 2,000\text{ afy}$)
 - CO River Storage
 - 1,000 afy for 5 years
 - CVWD receives balance of conserved water



Rebate Process

- ▶ Application will be on CVWD's Website
 - Grower must provide plans for the area to be converted
 - Project area, drip system layout, materials
 - Proposed water savings per acre and total
 - Must commit to working with CVWD to ensure savings
 - Must be willing to share water use data with Reclamation
 - Must provide site access to CVWD and Reclamation.
- ▶ CVWD will pay rebates upon successful verification of project completion

Verification

Measurement ,Monitoring and Reporting

- ▶ Prior to issuing rebate CVWD will do the following :
 - measure and map converted area via field survey
 - inspect and verify quality of materials installed
 - establish baseline pre–project consumption based on previous 5 years of reported water use
- ▶ CVWD will monitor post project water use and work with growers to ensure estimated water savings
- ▶ Applications and Verification documentation will be submitted to Reclamation

Rebate Application Discussion



- ▶ How many acres would the average applicant convert?
- ▶ What should be the minimum acreage?
- ▶ What should be the maximum acreage?
- ▶ Is September 2016 completion reasonable?
- ▶ Do you see any barriers to participation?
- ▶ Do you have any suggestions for improving participation?

Next Steps

- ▶ Make sure you have provided your contact information
- ▶ Watch for email from Patti Reyes
 - titled **CVWD Flood to Drip Rebates**
 - from **preyes@cvwd.org**
- ▶ Visit **www.cvwd.org**



Thank you

