SUNNYSIDE VALLEY IRRIGATION DISTRICT

SUNNYSIDE, WASHINGTON

WATER CONSERVATION PROGRAM

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BOARD, STAFF, AND LEGAL COUNSEL

►► Board Members:

- Doug Simpson, Chairman
  Mabton, WA

- Bob Golob, Vice Chairman
  Granger, WA

- Dave Michels
  Grandview, WA

- Mike Hogue
  Prosser, WA

- Rick Sauve
  Sunnyside, WA

►► Administrative Staff

- James W. Trull
  District Manager

- Donald L. Schramm, P.E.
  Assistant Manager – Operations

- Lori A. Brady
  Assistant Manager – Administration and Technical Services

- Lawrence E. Martín, Counsel
  Halverson Applegate, P.S.
  Yakima, WA
United States Department of Interior
  ↓
Bureau of Reclamation
  ↓
Pacific Northwest Region
  ↓
Upper Columbia Area Office
  ↓
Yakima Reclamation Project
  ↓
Storage Division
  └── Roza Division
   └── Kittitas Division
    └── Tieton Division
     └── Wapato Division
      └── Sunnyside Division
       └── Kennewick Division
Sunnyside Division
(Sunnyside Valley Irrigation District)
99,244 acres
GENERAL ADJUDICATION
OF THE SURFACE WATER RIGHTS
IN THE YAKIMA RIVER BASIN

• Initiated in 1977
• 40,000 Claimants
• 6,062 Square Miles
• Sub-Basin Pathways
• Major Claimant Pathways
SUNNYSIDE DIVISION BOARD OF CONTROL

• Claims filed in 1974

• Trial in 1994

• Report of the Court re Sunnyside Division issued 10/23/01

• Mediation June 2002 – July 2003

• Court issued a Conditional Final Order on August 14th
SUMMARY OF SETTLEMENT

• Common Place of Use for Division’s Water Rights

• Regulation at the Sunnyside Dam

• Continued application of the 1945 Consent Judgment

• Retained 95% of claimed quantities

• Preservation of all claimed priority dates (6) June 29, 1878 – May 10, 1905

• Commitment to Yakima River Basin Water Enhancement Project
SUNNYSIDE CANAL
IMPROVEMENT PROJECT
Phase 1
Funded under the
Yakima River Basin Water Enhancement Project Act

Diversion reduction of 54 CFS
at Sunnyside Dam (19,450 acre-feet annually)
to improve in-stream flows
SUNNYSIDE CANAL IMPROVEMENT PROJECT
Funded under the Yakima River Basin Water Enhancement Project Act

9,712 AF of Conserved Water will improve supply to Sunnyside Division landowners in drought years.
SUNNYSIDE CANAL IMPROVEMENT PROJECT

Phase 1

Funded under the Yakima River Basin Water Enhancement Project Act

Requires $2.5-$3.0 million in federal appropriations annually
SUNNYSIDE CANAL IMPROVEMENT PROJECT Phase 1
funded under the
Yakima River Basin Water Enhancement Project Act

Cost of $32.5 million (YR 2000 price levels)
65% Federal
17 ½ % State
17 ½% Sunnyside Division
BEFORE: MANUALLY OPERATED GATES
AFTER: AUTOMATED GATES
Construction of 3 Re-regulation Reservoirs

3 – RE-REGULATION RESERVOIRS
System Control And Data Acquisition

Supervisory Control and Data Access (SCADA)
Remote control and data collection saving fuel, labor, and water supplies
Sunnyside Canal Improvement Project

On November 15, 2004, Reclamation, WDOE, Yakama Nation, SDBOC, and many others held the groundbreaking ceremonies on the M.P. 59.29 Re-Regulating Reservoir north of Prosser. The 300 acre-foot reservoir was completed and placed into operation in September of 2005.

Design for the 23.7 Re-Regulation Reservoir north of Granger is well under way with construction expected to begin the summer of 2007 and a completion date of early the summer of 2008. To date, nine (9) check structures and automated control gates have been constructed.

New SCADA software and hardware has been installed in the Sunnyside office. SVID can now access this data from any remote site with internet access including the field offices at Granger and Grandview. The communication system from the field to the Sunnyside office is currently transitioning from cellular technology to spread spectrum radios.
WATER QUALITY SUCCESS

Sulphur Creek Wasteway Entering Yakima River

Removed approximately 95% of the sediment in agricultural runoff from entering the Yakima River.
WATER QUALITY IMPROVEMENT MEASURES

Water quality sampling and analysis
WATER QUALITY IMPROVEMENT MEASURES

Landowner Education
Meetings held with approximately 1000 farmers
WATER QUALITY IMPROVEMENT MEASURES

Financial Incentives – On-Farm Loans

Conversion from furrow (rill) method to sprinkler and drip applications improving irrigation application efficiencies from 50%-60% to 70%- 80%
WATER QUALITY IMPROVEMENT MEASURES

Erosion control
WATER QUALITY IMPROVEMENT MEASURES

Fencing to Restrict Livestock Access
IRRIGATION METHODS
SUNNYSIDE DIVISION

2001  Rill Application 44%  Sprinkler and Drip 55%

2006  Rill Application 32%  Sprinkler and Drip 68%
SUNNYSIDE DIVISION
WATER CONSERVATION PROGRAM

PHASE 2

ENCLOSED CONDUIT LATERAL SYSTEMS
SUNNYSIDE DIVISION
WATER RIGHTS SETTLEMENT AGREEMENT

PHASE 2 CONSERVATION GOALS

24,750 AF CONSERVED

DIVERSSIONS REDUCED BY 16,500 AF ANNUALLY

MAXIMUM INSTATANEOUS DIVERSSIONS
REDUCED BY 46 CFS
### SUNNYSIDE DIVISION CONSERVATION PROGRAM - PHASE II

<table>
<thead>
<tr>
<th>LATERAL</th>
<th>SUNNYSIDE CANAL MILE POST</th>
<th>ACRES SERVED</th>
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<th>ESTIMATED COST (2007)</th>
<th>COST PER AF PROPOSED PHASE II</th>
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PROPOSED PHASE 2

Construct 30 +/- Enclosed Conduit Lateral Systems

Total Cost: $55 Million

Anticipated time to complete: 15 Years
AGRICULTURE FEEDS THE NATION