Hydrologic Data Needs

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WWDC Overview

- WWDC is a water infrastructure funding program
- Typical Project Funding
  - Studies – 100% WWDC
  - Design/Construction - grant/loan mix is 67%/33%
- WWDC does not deal with:
  - Water Quality regulation
  - Water Rights administration
- Project Progression
  - Level I – master planning/reconnaissance studies
  - Level II – feasibility studies
  - Level III – design and construction
WWDC Programs

- New Development
- Rehabilitation
- Dams & Reservoirs
- Water Planning
- Instream Flows
- Small Water Projects
- Groundwater Exploration
- Reservoir Management
New Development

- Level I Master Plans –
- Level II Feasibility Studies –
  - Groundwater depth & availability
    - Existing water rights (wells)
  - Groundwater quality
  - Surface water availability (direct flow)
    - Stream gages
    - Existing water rights
- Level III Design and Construction –
Rehabilitation

- Level I Master Plans –
- Level II Feasibility Studies –
  - Surface water availability (direct flow)
    - Stream gages
    - Existing water rights
  - Surface water availability (storage)
- Level III Design and Construction –
Dams and Reservoirs

- Level I Reconnaissance Studies –
  - Surface water availability (direct flow)
    - Stream gages
    - Existing water rights
- Level II Feasibility Studies –
  - Surface water availability (direct flow)
    - Stream gages for multiple alternatives
    - Existing water rights for multiple alternatives
    - Hydrological modeling
- Level III Design and Construction –
Water Planning

- River Basin Studies
  - Surface water availability (direct flow)
    - Stream gages
    - Existing water demands
    - Hydrological modeling
  - Groundwater availability
    - Aquifer characterization
    - Existing water rights (wells)
- Groundwater quality
Water Planning

- Watershed Plans
  - Surface water availability (direct flow)
    - Stream gages on small streams
    - Existing water demands (irrigation)
    - Small basin hydrological modeling
    - Riparian health assessments
  - Surface water impairments
    - Erosion concerns
    - Impaired streams (303d) designations
Instream Flows

- Water Availability Study
  - Stream gages
  - Small basin hydrological models
  - Existing water rights
Small Water Projects

Projects generally include:

- Stock dams
- Stock wells
- Stock pipelines

Hydrological data needs are negligible
Groundwater Exploration Program

- Hydrological data needs
  - Groundwater depth & availability
    - Existing water rights (wells)
    - Groundwater modeling
  - Groundwater quality
Reservoir Management

- Federal Reservoir Contracts –
- State-Owned Reservoirs
  - High Savery Reservoir
    - Snotel sites to determine SWE
    - Runoff modeling
Questions ??????