

Mock up of proposed TRRP annual report

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A separate file (writing instructions.doc) provides a general description of the scope of this report, instructions for section leads and authors, and submittal deadlines.

Executive Summary (Hamman)

Describe program administration, flow release schedule / volume, objectives of release and evaluation of whether they were met, major findings from monitoring and analysis, and implementation actions.

Purpose and Scope (Hamman)

Document what we've done this year. Fulfill the congressional reporting requirement stated in the ROD. A broader, 10 year state of the Trinity River report that evaluates the program management actions, objectives, and hypotheses and adaptive management is tentatively planned for 2010 or 1011.

Background and Introduction (Hamman)

Short overview of the Trinity River Restoration Program including mission and restoration strategy. Limit to a couple paragraphs.

Provide overall context for technical sections below (e.g. sediment, habitat, riparian) by summarizing management objectives, hypotheses, and PITA's from the IAP. Much of this language can be taken from the IAP.

Describe any special circumstances or concerns for the water year. Past examples include litigation constraining flow in 2004, extended safety of dams releases in 2006, disease in the lower Klamath.

Program Administration (Hamman)

- Organization
 - Current Organizational Structure
 - TMC – eight member body consisting of
 - Paragraph on each member and its respective role within the TRRP
 - Executive Director
 - Authorities and responsibilities
 - TAMWG – sixteen members
 - Charter and role
- Activities
 - TMC support
 - Budget Process
 - Annual Work Plan Development

- Procurement Policies (incl. proposal plan if adopted)
- Program Implementation
 - Staffing and Supervision (Org chart?)
 - 2009 Activities
- Organizational Development
 - TMC directed org reviews
 - Subcommittee report
 - CDR Situation Assessment
 - TMC Activities based on Findings
 - Work group development
 - Implementing CDR Recommendations
 - DOI Agencies Realignment Plan
 - Status
- TAMWG - Recommendations

ROD Management Actions

Variable Annual Flow Regime (Krause)

- Water year type
- Describe daily flow release schedule, objectives, adaptive management experiments (e.g. habitat monitoring bench). Describe how daily flow release schedule was tailored to address those objectives. Explain differences from ROD recommended schedule.
- Figure: release schedule vs. ROD recommended.
- Figure: release schedule vs. actual releases.
- Figure: release schedule vs. 3-4 similar unregulated flows for same water year type from historic record.
- Table: release and diversion volumes since 2000. include water year type.
- Figure: flows at Lewiston versus flows at North Fork and Hoopa to show tributary accretion.

Mechanical Channel Rehabilitation (Faler)

Summarize constructed projects. Include basic conceptual design figures.

- Mechanical Channel Rehabilitation
 - Construction Update
 - Project summary (built and planned). Compare to original timeline.
 - Lewiston-Dark Gulch Construction (including as-builts)
 - Sawmill Construction Summary / post implementation report
 - Design Update
 - Design / Implementation Process
 - Design Guidance Document
 - Geologic Investigation
 - Lowden, THG, Reading's Creek, and Wheel Gulch designs

- Phase 2 designs
 - Performance of Prior Year Mechanical Channel Rehabilitation sites
 - Photo monitoring at Indian Creek, Lewiston, and Dark Gulch
 - Response of constructed geomorphic features
- Survey control network update
- Environmental Compliance
 - Master EIR / Permits
 - Mitigation Monitoring Reports
- Realty Actions
 - Summary of realty actions (ROE, Agreements, etc.)

Sediment Management (Gaeuman)

- Summarize total loads (coarse and fine) for mainstem and tribs. Compare to management targets and predicted transport.
- Updated sediment budget from Wilcock
- Gravel augmentation volume and monitoring results
- Hamilton Ponds – dredging issues, plan

Watershed Restoration (Gaeuman)

- Summary list of projects funded and estimated reduction in sediment supply to mainstem.

Infrastructure Improvement (Faler)

- Well/Septic grant program
- Floodplain Infrastructure program
- Progress on new FEMA model / FIRM map update

Science Activities

Science Planning (Sci. Coordinator)

- IAP progress (Polos)
 - PITA progress / status table
- Plans for programmatic 10 year review of foundational hypotheses and adaptive management.
- 2009 trinity river science conference
- Mention workgroups and availability of workgroup meeting agendas / notes on-line.

Data Management (Peterson)

- Establishment of Data Stewardship position
 - Inward focus (TRRP office)

- Outward focus (Partners)
- External ideas (coordination with PNAMP, BRDS, regional stewards, etc.)
- Program website
- Progress Report on IIMS
 - Development
 - Data Holdings
- Initiation of river activity database
- Summary of major data sets acquired
 - aerial photography
 - LIDAR
 - Thermal Imagery
 - other

Channel Morphology (Gaeuman)

- Bed scour / mobility, compare to management targets and predicted riparian response (Hales)
- LiDAR – accuracy assessment and analysis plans
- Redd scour study at Sheridan Bar.
- Substrate characterization
 - Progress towards creating fine sediment deficit
 - Implications for spawning habitat and lamprey habitat
- Brief summary of hatchery gravel design/augmentation articles by Greg Pasternack and tech memos by Dave Gaeuman on gravel augmentation volumes.

Riparian Vegetation (Gutermuth)

- Revegetation Evaluation by Chris Hoage
- Replanting success /environmental compliance
- Riparian scour, mortality, and regeneration (system wide and at construction sites), compare to management targets and predicted riparian response (Bair)
- Riparian mapping - IHAP +NSR stuff

Water Quality (Gutermuth)

- Water Temperature
 - SNTMP weekly River water temperature modeling (Zedonis)
 - Figures: for actual water temperature vs. seasonal temperature objectives at compliance points. Include flow at compliance points (Zedonis)
 - Figure: Measured actual water temperature vs. air temperature
 - Water temperature and amphibians? (Zedonis)
 - Reservoir temperature modeling / Release water temperatures(Wittler)
 - Discussion of reasons for meeting / not meeting temperature objectives, and potential biological implications. Mention new temperature management under development. (Wittler)
- Filter feeder mercury bio-accumulation study (Betasso)
- Turbidity (Gutermuth)

- Include discussion of construction exceedences and fixes.

Fisheries (Hemphill)

Juvenile Fish (Hemphill)

- Smolt outmigration (total #, size, species, timing). Compare to management targetes.
- Out-migrant review
- Fry rearing / survival
- Juvenile health
- Stranding
- Bio-monitoring

Adult Fish (Hemphill)

- Adult returns (natural and hatchery for the different species). Compare to management targets.
- Harvest Rates
 - Hoopa Tribal Harvest rates
 - Yurok Tribal Harvest rates
 - Sport Harvest
- Hatchery production totals
- Redds (#, distribution)
- Fish health / Disease rates
- Age Composition
- Steelhead tracking study
- Genetics

Fish Habitat (Davis)

- Habitat mapping
 - System wide
 - At rehabilitation sites
 - Compare to management targets.
- Diurnal habitat utilization differences
- Habitat potential
- Habitat modeling – Hardy + M&T design stuff
- SmartRiverGIS fish production modeling results (based on SALMOD)
- Coho survival and migration
- Updated habitat suitability curves
- Large wood surveys
- Integration efforts with geomorphology and vegetation

Wildlife (Gutermuth)

Avian (Miller)

- Riparian and riverine birds
- Abundance, productivity, habitat associations, and health trends

Herptafuna (Bettaso)

- Frogs
 - Population monitoring and penology, distribution, relative abundance, comparison of tributaries vs. mainstem
 - Linkage of flow, water temperature, and egg mass location to successful hatching event (or evaluation of the WY 200X flow release on hatching success).
 - Food base algal study
- Turtles
 - Reproductive success
 - Linkage of flow and geomorphic changes to habitat

Recommendations / Next Steps (Sci. Coordinator)

To be written after technical content received.

References (Cliffton)

Cite all primary information sources.