

Middle Fork Project  
 AQ 2 – Fish Population  
 Technical Study Plan  
 Report Overview



March 10, 2008

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Study Objectives

- Document fish species composition, distribution, and abundance in the Project bypass and peaking reaches.
- Characterize fish growth, condition factor, and population age structure in the Project bypass and peaking reaches.
- Characterize fish species composition, relative abundance, and size in Project reservoirs and diversion pools.

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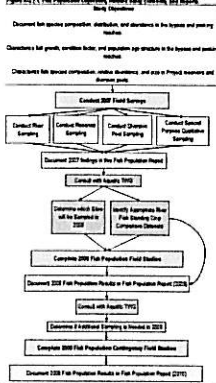
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AQ 2 – Fish Population

Study Elements and Reports




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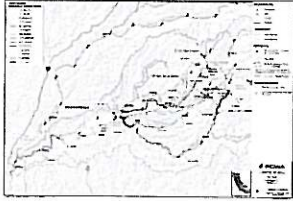
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### Fish Population Study Sites

- Rivers (21 Sites)
- Reservoirs (4)
- Diversion Pools (3)

Wide Scale Map



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### Survey Results

- Distribution and Diversity
- Abundance
- Trout Biomass
- Fish Population Comparison Sites
- Fish Size, Age, Growth and Condition Factor
- Timing of Fry
- Others
  - *Electrofishing versus Snorkeling*
  - *Small Stream Diversion Pool Sampling*
  - *Species and Lifestage Periodicity Chart*
  - *Water Temperature*

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### ■ Distribution and Diversity

- Rivers
  - *Project Bypass and Peaking*
  - *Others*
    - *Comparison Rivers*
    - *Above Small Stream Diversions*
  - *Diversity*
- Reservoirs
  - *Hell Hole Reservoir, French Meadows Reservoir, Middle Fork Interbay, Ralston Afterbay (see CPUE)*

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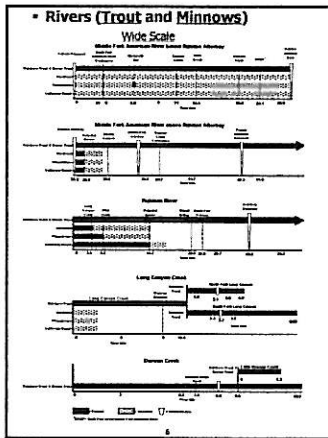
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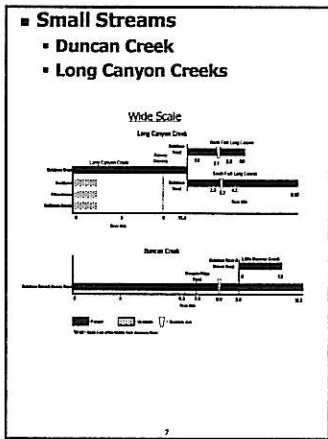
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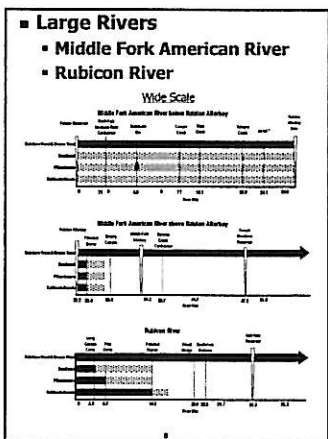
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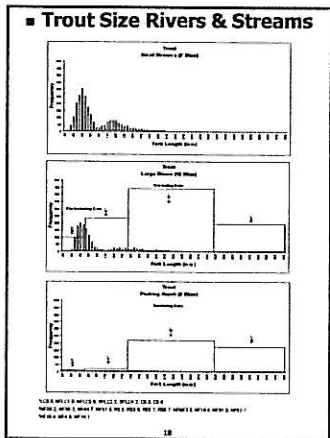
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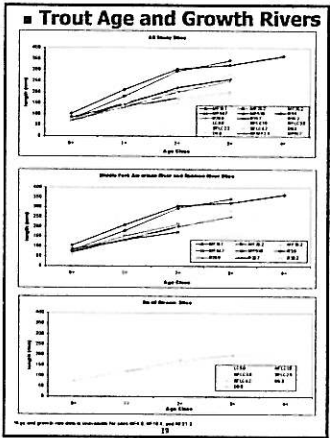
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### Trout Condition Factors in Rivers

Table A2.12.1: Minimum Trout (MT) and Brown Trout (BT) Condition Factors

River Name and Site ID	MT		BT	
	Condition Factor	n	Condition Factor	n
Middle Park Area River (Intermediate to Section Adjoining)	-	86	-	86
Site W11	1.21	86	-	86
Middle Park Area River (From Middle Park Reservoir to Section Adjoining)	1.02	86	1.21	2
Site W12	1.02	43	1.25	1
Site W13	1.06	1	1.27	15
Site W14	1.27	15	1.25	3
Middle Park Area River (Upstream of Middle Park Reservoir)	1.26	71	-	Not Observed
Site W15	1.25	66	1.16	1
Site W16	1.28	77	1.13	6
Site W17	1.28	38	0.98	1
Long Canyon Creek	1.10	81	-	Not Observed
Site W18	1.03	79	-	Not Observed
Site W19	1.04	103	-	Not Observed
South Park Long Canyon Creek	1.09	49	-	Not Observed
Site W20	1.11	25	-	Not Observed
Canyon Creek	1.10	82	1.08	3
Site W21	1.17	82	1.05	15
North Park of the Middle Park Area River	1.06	22	-	Not Observed
Site W22	-	86	-	86
Site W23	-	86	-	86
Site W24	1.10	85	-	Not Observed

\* Not recorded any fish, see 0 digits in table substituted for condition factor.

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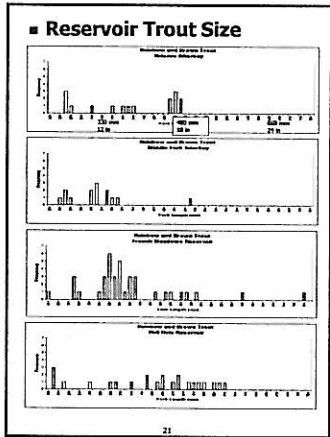
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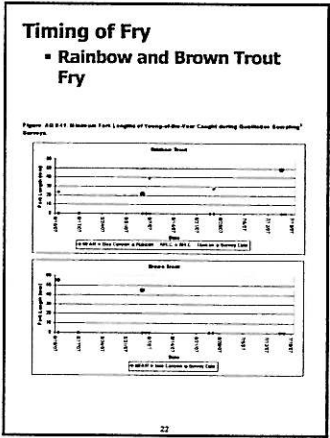
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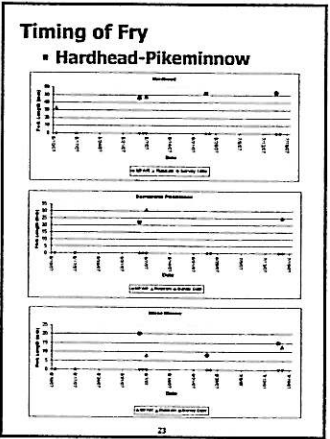
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