Juvenile Salmonid Survival and Migration in the San Joaquin River Restoration Area Spring 2013

Fisheries Management Technical Feedback Group

March 1, 2013

Turlock, Ca

SAN JOAQUIN RIVER RESTORATION PROGRAM

2011/2012 Studies and Results

- Movement Rates
  - 2011 – relatively fast, flood year
  - 2012 – slower than 2011, with significantly slower movement at 700 cfs v. 1000 cfs pulse periods
- Survival Rates
  - 2011 – 78% reach 1; 55% Friant to HFB; 28% San Mateo to HFB
  - 2012 – YOY – 24-48% Reach 1 survival; no survival in Reach 5

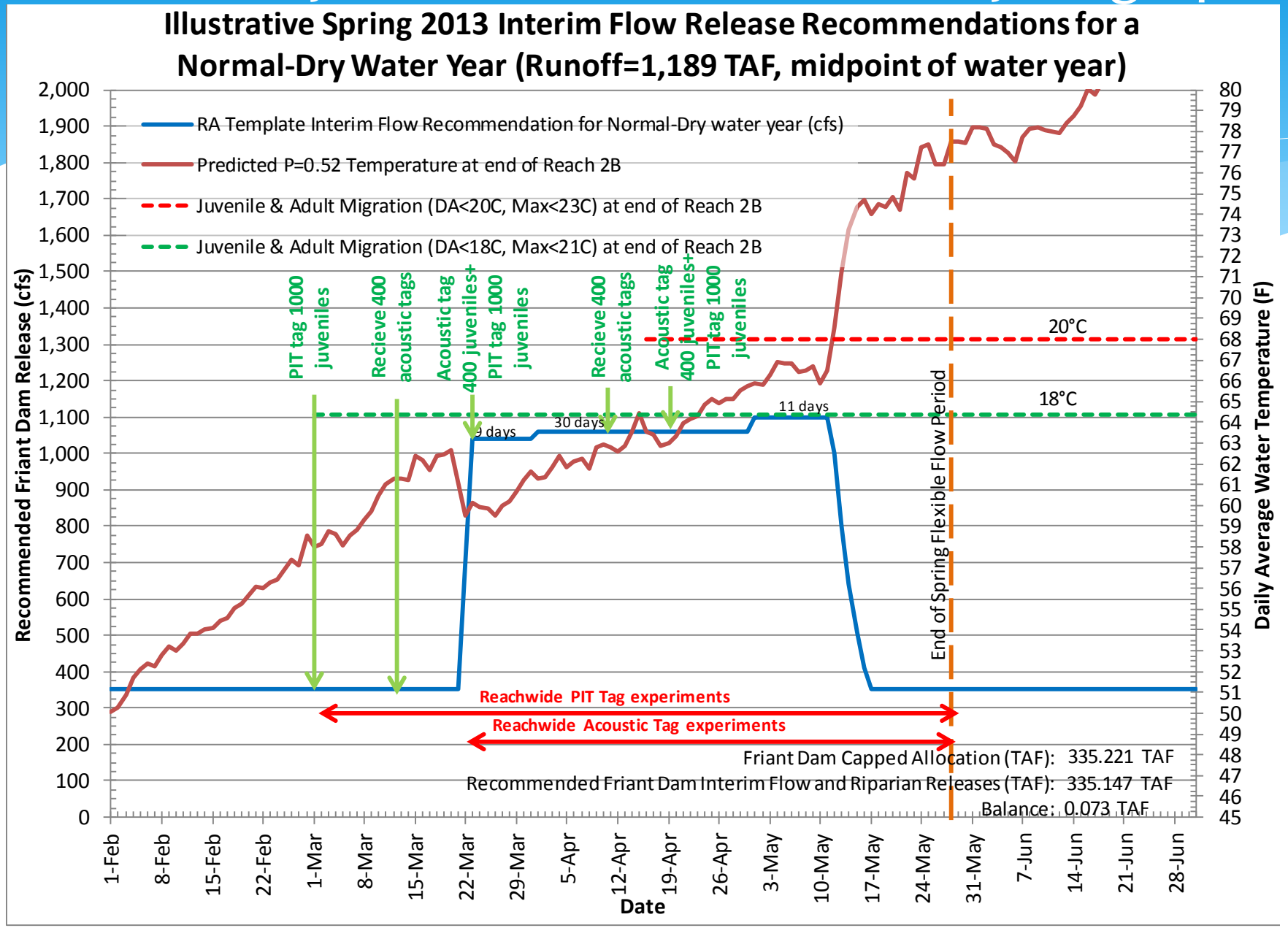
2013 Study Goals

- Assess movement and reach specific survival of YOY Chinook Salmon release groups released in March and April in coordination with a pulse flow.
- Assess survival in Reach 5 using ‘early’ and ‘late’ releases

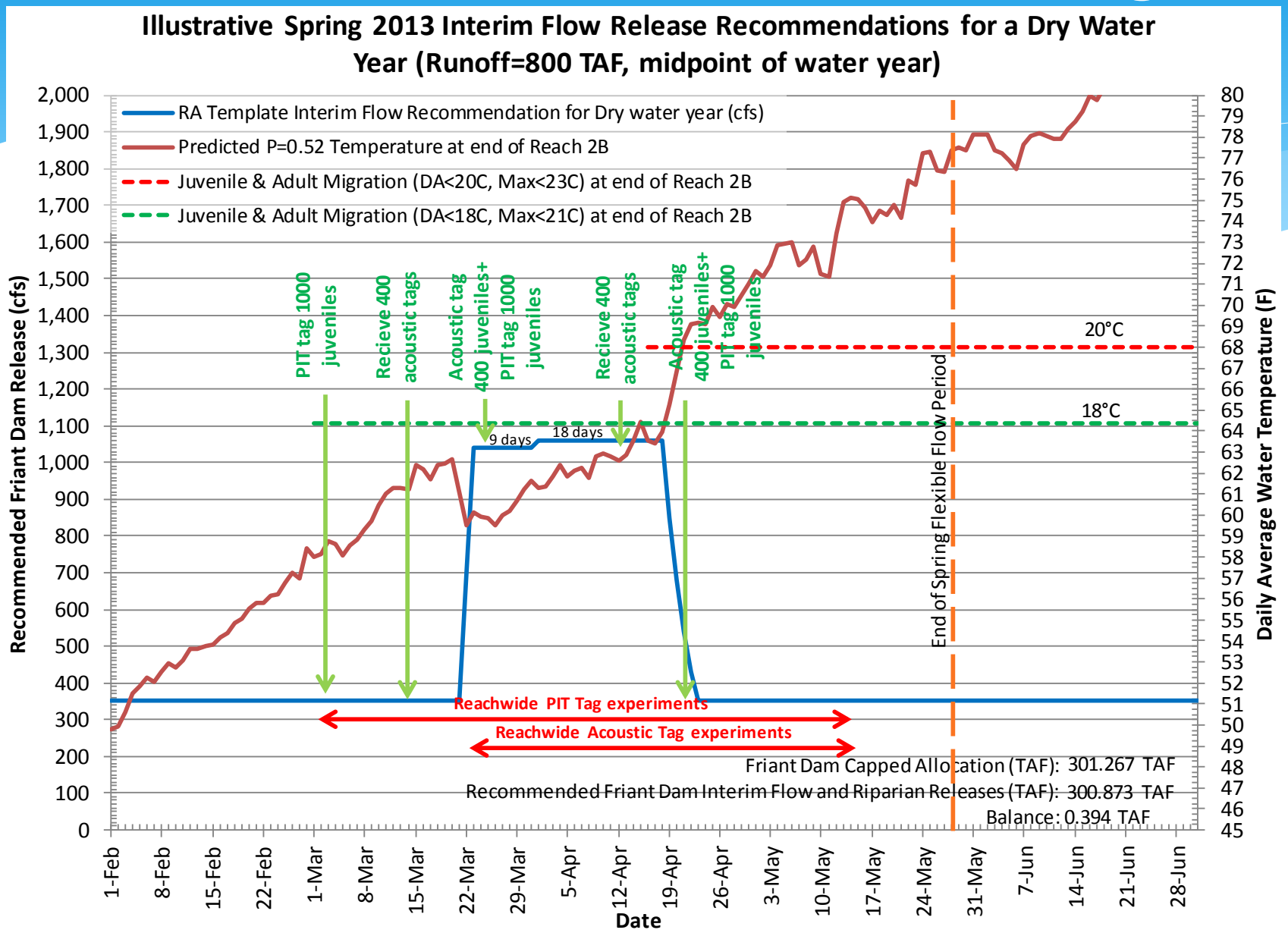
Methods

- Friant Release Groups
  - March 25th
    - 200 Acoustic Tagged fish +1,000 PIT tagged fish
  - April 22nd
    - 200 acoustic tagged fish + 1,000 PIT tagged fish
- Reach 5 Release Groups
  - March 25th
    - 200 Acoustic Tagged fish +1,000 CWT fish
  - April 22nd
    - 200 acoustic tagged fish + 1,000 CWT fish
- Source Fish
  - Feather River Hatchery Fall Run
  - Streamside spawned Fall-Run
  - Merced River Hatchery Fall-Run

Normal-Dry Water Year Illustrative Hydrograph



DRY Water Year Illustrative Hydrograph



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Questions?