**Stanislaus Telemetry Chat Thoughts and Notes**

* USFWS proposing tagging 30-40 fish a month from Oct-May
  + Outmigration rate
  + Outmigration survival
  + Resident annual survival
  + Habitat restoration use?
* Cramer proposing tagging ~200 fish in November
  + Outmigration rate
  + Outmigration survival
  + Resident survival over life of tag

**Some questions from the meeting**

* Stick to the plan with USFWS tagging monthly?
  + This would overlap releases with CFS tagging efforts and would ideally have tagged fish in the water for at least 10 months.
  + Pros
    - Potentially for tagging smaller fish in the fall to study smaller age/size classes
    - Could inform optimal timing for tagging fish for outmigration studies
    - Temporal variability in resident survival.
  + Cons
    - More potential for recaps of telemetered and stress from repeated handling
    - Handling could influence residency during critical outmigration periods and bias life history selection.
    - Potentially cover less than 12 months depending on tag life?
* Could USFWS tag their fish May?
  + This would stagger the releases where CFS tags would cover the six month period from November-May and USFWS would cover May-November
  + Pros
    - No overlap in tagging efforts with less risk of recaptures.
    - Covering a full year
    - Could potentially measure any impacts from spring and fall actions
  + Cons
    - Temperature stress in May on fish
    - Uncertainty in river operations that could make sampling inefficient.
    - Less temporal variation
* What metrics could we use to measure habitat restoration effectiveness?
  + CVPIA metrics of interest:
    - Rearing habitat – Juvenile Density
    - Spawning habitat – Redd Density