Yolo and Sutter Bypass Meeting Notes

**Yolo**

* Need an interactive dashboard to support decision making needs
* Key component of dashboard would be an extensive basemap with projects, key locations, ect geolocated on map
  + Ultimate goal: place to answer the question “What is everyone doing in the Bypass”
  + Include: swanston overcrossing, weirs, counties, water districts, land ownership, crop types
* Key Weirs/Locations: Lisbon Weir, Fremont Weir, Sacramento Weir, Putah Creek Projects, Westside Tributaries Study, Duck Clubs, Pacific Flyway
* Key Data: Weir crest, river stage, reservoir releases, forecast weather and stage, fish data (RST, USFWS DJFMP, hatchery releases), westside trib monitoring, farming information (harvest, crop type, diversions), projects (progress, size, type, funding, completion, collaboration, data collection), lidar, hydraulic model results (proprietary)
* Balance between fish needs and farmers
* Want an effortless way to compare Hydrographs and catch at screw traps (DASHBOARD IDEAS)
  + Knights landing (need individual fork length data) and Wilkins slough (Use case from Marty)
  + Allison-Wilkins Slough flow and elevation at Fremont Weir, what fish are being caught
  + Can we get FL data for individual fish
* Hydrographs for: Feather River, Sac River, Sutter Bypass
  + Add in fish data, out-migrating fry
* Push notifications in relationship to Elkhorn Slough Project
* Data: Sac Weir opening uses sac river gage at I street (DASHBOARD, weir dashboards)
* Dashboard for tracking weir conditions and fish, in relationship to possibility of expanding Fremont Weir
* Track releases out of Folsom, pulse flows (max 160000 cfs) and how/when that reaches the weirs.
* Modifications at Lisbon weir for adult fish passage
* Could this be an interface form monitoring insurance claims on crop damage?
* Contact SFEI and Delta Conservancy about the data collection grant they have and its progress/results
* Yolo Bypass RPA- need to look into this
  + Incidental take permit
* Stakeholders: SAFCA, Solano RCD, Group doing Westside trib study, MWD, Solano County, Knaggs Ranch Project,

Sutter Bypass Fish Group

* Identify where the gaps are in scientific research
* Start with a detailed basemap: current, past, and future research/monitoring
* Physical Environment: Flows, Stage, Hydrograph, flooding, timing, GIS
* Bioloigy
* Research Includes (similar to effort in Yolo)
  + Catch
  + Predation
  + Growth Rates
  + Food Availability
  + Primary Production
* Historical Data
  + Data interoperability- methods analysis
* Existing Data we have of interest to this group: DJFMP, RBDD, Knights, Tisdale, Butte Creek, RBDD, GCID
* Custom Fisheries GIS
  + Overlay with Infrastructure, key locations/areas, flow patterns, gages and monitoring stations, Ag Districts, NAIp Imagery, Planet Imagery, NHD data, canals, weirs, diversions, sutter bypass
* Juv. WR Salmon are of interest (Rachel)
  + Data: Screw trap catch, FL, timing, Hydrology, location
* Integration with Yolo and Head of Sutter
* DWR Yolo Data- we have, Brian mentioned they are cleaning it up, data format is access DB
* Flora has private RST on Sutter Bypass, may get us data? Or at least coordinates
* Deer creek RST
* What is flooded when and for how long (Part of Weir Dashboard)
* Forecast- look what Sac Pas has for Forecast, was mentioned in meeting, need to keep an eye on their additions and advancements
* NOAA Fisheries- talk of starting up another ATS Study, potentially into the sutter bypass
  + EDRP division- ecosystem restoration
  + Jack Ingram
* Mentioned that they may not be ready to get/give data but “its just helpful to know where monitoring is occurring”
* Phenology piece of link between Yolo Bypass and Sutter Bypass
  + Want to be informed about what is occurring in the Yolo Bypass
* Zooplankton data collection- Possibly Carson Jeffres?
  + Willing to work with 34 North on Zooplankton database format