



Colorado River Watch

- Statewide water quality monitoring program
- Focus on citizen science involvement and education
- Fill data gap for WQ decision made with little or no data
- Leverage resources of CPW, citizens, teachers and students
- Funded primarily by Colorado Parks and Wildlife (federal \$ and Colorado lottery \$)







Water Quality Data

- Stations monitored monthly for Temp, DO, alkalinity, hardness
- Stations monitored monthly for 13 metals diss/tot (Al, Ar, Ca, Cd, Cu, Fe, K, Mg, Mn, Na, Pb, Se, Zn)
- High and low flow nutrient monitoring (total nitrogen, ammonia, nitrate/nitrite, total phosphorus, chloride, sulfate, and TSS)
- Fall macroinvertebrate and physical habitat assessment



Data Quality/Flow

- CDPHE-WQCD methods used
- SOP Manual, QAAP, data management plan, required annual training
- 20% QAQC used, rather than 10%
- Data available on RW website, WQ Portal, CDSN, and submitted directly to CDPHE-WQCD for annual data call





Colorado Data Sharing Network

- Customized version of AWQMS
- Water quality exchange (WQX) framework
- Data uploaded into CDSN can be submitted to EPA WQX easily
- 319 funded nps projects use CDSN
- CDPHE-WQCD allows regulatory and other data to be submitted through CDSN without additional formatting



Data users

- Assessments 303(d) list decisions
 - Annual data call
- TMDL development
 - Pull data from WQ Portal, CDSN, assessments
- Permits ambient conditions for WQBELs
 - Pull data from WQ Portal, CDSN
- 319 nonpoint source funded projects/watershed plans
 - RW provide match \$ and guidance to other citizen science groups; RW data used in watershed characterization



Is the data useful/usable?

- Stigma of citizen science data
- Improve data flow WQ Portal
- Can we better leverage resources for specific WQ needs/goals? (TMDL development, assessments)
- Documenting issues (avoid revisiting same topics year after year)
- Correction of site names/descriptions, locational data







Contact Information

Holly Brown

303.691.4023 I holly.brown@state.co.us

River Watch of Colorado:

https://coloradoriverwatch.org/

Colorado Data Sharing Network

http://www.coloradowaterdata.org/

