THE VALUE OF PUBLISHED DATA

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“What water quality data is there for the Verde River?”
PART 1
The Value of the Water Quality Portal
Assessments From Months to Minutes

Old Way

1. Gather (3 months)
2. Format (6 months)
3. Assess (4 months)
4. Send to ATTAINS
Time = 13 months

New Way

1. Gather (7 minutes)
2. Format (0 minutes)
3. Assess (5 minutes)
4. Send to ATTAINS
Time = 12 minutes!
States Who Submitted Their 2020 Assessment On Time

Source: 2020 ECOS Fall Meeting
What is So Hard?

Technical vs. Administrative

Source: https://www.epa.gov/sites/default/files/2015-10/documents/final_retrospective_review_report.pdf
Inconclusives

Parameter
- Not Meeting Criteria
- Not Enough Information
- Meeting Criteria

Designated Use
- Not Supporting
- Insufficient Information
- Supporting

Assessment Unit
- Impairment
- Inconclusive
- Attainment
Select Waterbody

Select Active Datagap
- Active Datagap
- Active Other Purpose
- Inactive Datagap

The ‘Datagaps’ Page is broken down into three sections:
- Itemized Datagaps - Shows all inconclusive assessment information at the use level.
- Datagap Summary - Shows what parameters are needed to make a decision.
- Map - Shows where each datagap is located.

“Active” sites are datagaps that ADEQ is currently sampling.
Core parameters and exceedances in the ‘Not’ column are shaded to help the user see if a ‘Insufficient information’ decision is due to an exceedance or a missing core parameter.
Explore Arizona’s Assessment Dashboard at https://azdeq.shinyapps.io/assessment_dashboard_2024_Prod
Summary - Value of Using the Portal

- **Gathering and formatting data takes minutes not months**
  - One Full Time Employee / 2000 hrs/yr
- **No manual public data requests** (500 hrs/yr)
- **Timely submission** of the CWA assessment
- **Dashboard saved $400,000** in lab costs.
- **Reduced inconclusives** by over 100 waters!
In terms of **time** and **money** the portal saves Arizona

- **2,500 hours per year!**
- **$200,000 per year!**
PART 2
Maximizing Value of the Rest of the CWA
2019 Reported HABS and Illnesses

242 Harmful Algal Blooms Events from 14 States

Value Gradient

Not Discoverable | Discoverable | Searchable | Useful

- Most Genealogy
- Medical History
- # Deaths / Illnesses from HABS
- Safe to Swim?
- Portal
- How’s My Waterway
- ATTAINS
- Google Maps
- Weather

Less Valuable | More Valuable
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Arizona’ Assessment Dashboard