WET Then and WET Now

Western Coalition of Arid States San Diego, CA

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WET ≠

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Key Dates in History

1980 First Rule involving WET

Testing

1995 WET Test methods

published in 40 CFR

Part 136

95-2010 Many lawsuits, studies, and negotiations

Types of Regulation

Acute Lethality

Chronic Lethality

Chronic Sublethality







WESTCAS Participation

tive member of the WET Coalition, which cluded the following:
Alliance of Automobile Manufacturers,
American Chemical Council,
American Forest & Paper Association,
American Petroleum Institute

American Petroleum Institute,
AMSA (now NACWA),

Rubber Manufacturers Association,

Jtility Water Act Group,

/AMWA,

Alcoa,

General Electric,

Kennecott Utah, and

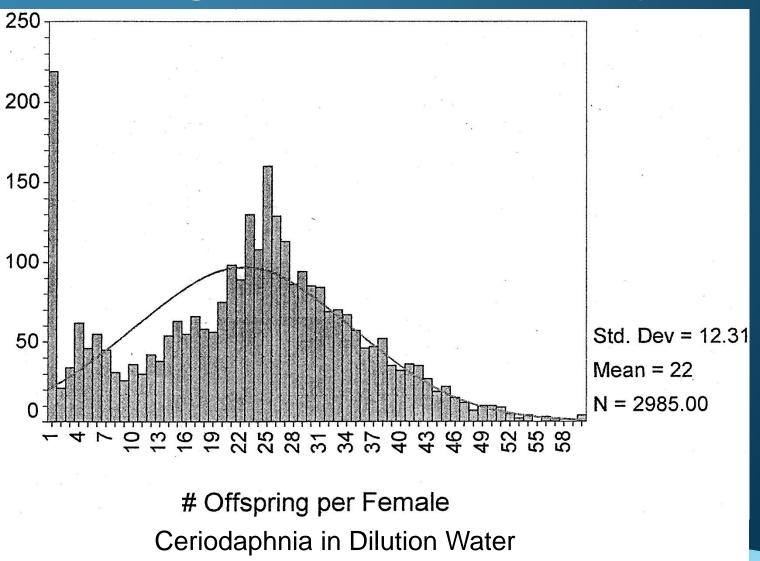
A Inter-laboratory Variability Study 1999–2000 Highlighted Test Issues

Test relies on responses of living organisms, which are inherently variable.

No regulatory provision for analytical or inter-laboratory variability.

Proposed permit provisions: each test failure is a violation and two test failures result in enforcement.

Organism Variability



Variability Between and Within Laboratories

at is a toxic dose (IC_{25}) of table salt (NaCI) to

er fleas?

20 Monthly Tests

aboratory	Median mg/L	Maximum mg/L	Minimum mg/L
1	910	1210	632
2	663	838	265
3	600	890	350
4	956	13/10	588

Additional Issues

No evidence that sublethal test results are indicative of instream responses.



Very difficult and expensive to do a sublethal TRE





More History

2000

Guidance issued on interpreting non-ideal dose responses

2002

Part 136 Method revised

Fewer failures as more plants treat to reduce ammonia and dechlorinate.

Permitting

Permit provisions vary widely between states with respect to frequency and acute vs. chronic tests.

Region 9 promoting Test for Significant Toxicity (TST)

- -Requires proving a negative: i.e., start with presumption of toxicity and prove it is not.
- -Recommends increasing the number of replicates.
- -Subject to more false positives.

exas Permits-Reasonable Potential

- 3 Years of Results Reviewed
- 3 Failures = WET limit
- 1 to 2 failures = 3-year permit with quarterly testing. Test failure results in monthly testing until there are 3 consecutive passing tests.
- WET limit can be removed in subsequent permit through a major amendment if there are no failures in 3 years.