

SOFTWARE

TADPOLE III

Release 3.5 of the popular database/statistics/graphics package for IBM PC series

TADPOLE III is a database: each database can have up to 9999 records with 60 fields per record. Sorting of records can be performed for printing or statistical analysis. TADPOLE can handle missing data, negatives, decimals and merge databases. Transfer data to mainframes and capture data from ASCII files including LOTUS 1-2-3 PRN.

TADPOLE III is a statistics package: data can be transferred from the database or keyed in directly to the statistics module (and stored). A wide range of transformations and descriptive statistics is provided. Tests include: Parametric: Student 't' test for paired or unpaired data; simple linear regression; correlation; compare proportions; multiple linear regression with up to nine variables; ANOVA (1/2 or 3-way) with SNK and HSD tests.

Non-parametric: contingency table (chi squared, 2x2 or NxK); Fisher exact test; McNemar test for significance of change; one-sample chi-square; Mann-Whitney U test; Wilcoxon signed-rank matched-pairs test; Spearman rank correlation coefficient; Kendall rank correlation coefficient; Kendall coefficient of concordance; Kruskal-Wallis one-way analysis of variance; Friedman two-way analysis of variance; Mantel-Haenszel survivorship (logrank) test.

TADPOLE III is a graphics package: pie charts; line graphs by class or by mean \pm S.E.; scatter diagram with fitted regression lines; cluster plots with mean \pm S.E.; histograms with up to 4 files per plot; bar charts with clusters of up to 4 groups, S.E. shown.

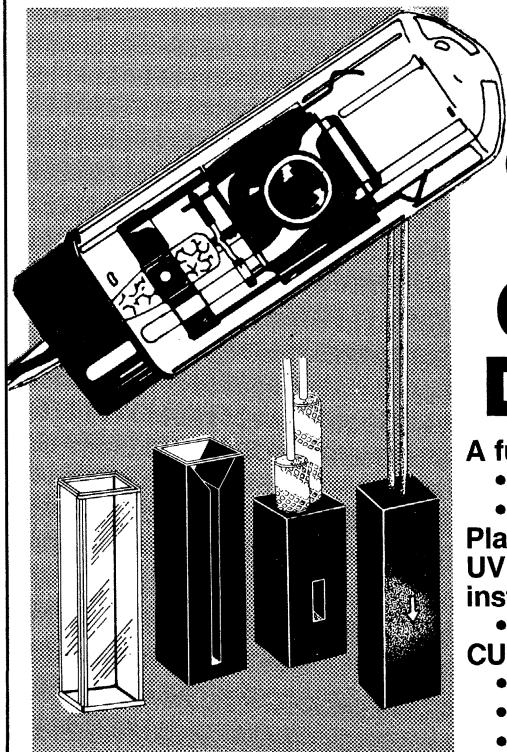
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with (and training in) such scientific decision-making modes, we would begin to have a population of young people who understood science and who knew why they should believe in scientific findings as contrasted with so much of the pseudoscience that appears in the popular media. Of course, this would require that their teachers also understand scientific decision-making methods.

A population so trained would be far more supportive than the public is today of science in all of its manifestations; they would also be much better able to function in a democratic society.

THOMAS MOORMAN

1850 Folsom Street, Boulder, CO 80302

The Chevron Doctrine

Daniel E. Koshland, Jr. (Editorial, 3 Feb., p. 585), argues that laws that are deliberately worded vaguely should be interpreted so as to give the authorities who administer them a certain amount of discretion. Readers may be interested to learn that federal courts already employ such a "background rule" when interpreting laws that delegate particular tasks to executive agencies. Under the so-called *Chevron* doctrine (1), unless an agency's interpretation is contrary to the clear intent of Congress, reviewing courts will generally defer to an agency's interpretation as long as it is reasonable. This reasonableness standard permits agencies to administer "blank check" laws with some room for judgment. Thus, to the extent that Congress enacts such laws with this "background rule" in mind, Koshland's laudable proposal has in effect already been implemented.

IVAN K. FONG

Chambers of Judge Abner J. Mikva,
U.S. Court of Appeals for the D.C. Circuit,
Washington, DC 20001

REFERENCES

1. *Chevron U.S.A. v. Natural Resources Defense Council*, 467 U.S. Rep. 467, 837, 843 (1984).

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